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LA-Z-BOY VERO

MAJOR SITE PLAN SUBMITTAL

6366 20th STREET(S.R. 60) VERO BEACH, FL 32966

INDIAN RIVER COUNTY, FLORIDA NOVEMBER, 2024

OWNER

VERO BEACH CAR CARE LLC 6366 20TH ST VERO BEACH, FL 32966

APPLICANT

ICAP DEVELOPMENT 1830 NORTH HUBBARD STREET, SUITE 700 MILWAUKEE, WI 53212 920.277.4344

ENGINEER

Mills, Short & Associates

700 22nd PLACE, STE. 2C/2D VERO BEACH, FLORIDA 32960 PHONE: 772.226.7282

SURVEYOR

GSS SURVEYING & MAPPING, INC.

4620 LIPSCOMB STREET NE,STE. 2 PALM BAY, FL 32905 PHONE: 321.914.3978

JURISDICTIONAL PERMITS:

INDIAN RIVER COUNTY LAND MAJOR SITE PLAN PERMIT INDIAN RIVER COUNTY LAND CLEARING PERMIT INDIAN RIVER COUNTY TREE REMOVAL PERMIT

FLORIDA DEP WATER MAIN EXTENSION PERMIT

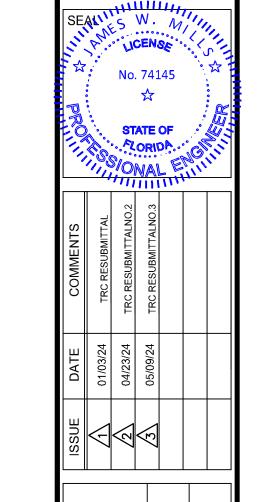
FDOT DRIVEWAY CONNECTION PERMIT

FDOT DRAINAGE PERMIT



2

Short



LOCATION MAP SCALE: N.T.S

> INDIAN RIVER COUNTY, FLORIDA PLANNING & DEVELOPMENT SERVICES DEPARTMENT **ADMINISTRATIVE APPROVAL**

11/13/24

Description Removing curb next to ADA parking space in rear of building. Cross access to mall loop rd is to be phased (Phase II) as a future connection.

Project # AA-25-01-03 (2017010185-97255)

11/07/202

G-1

GENERAL NOTES:

- 1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST JURISDICTIONAL STANDARDS AND FDOT
- 2. PAVEMENT STRIPING TO BE IN ACCORDANCE WITH JURISDICTIONAL SPECIFICATIONS AND WITH THE FLORIDA D.O.T. ROADWAY & TRAFFIC STANDARDS,
- 3. ALL TRAFFIC CONTROL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 4. WHERE MUCK OR OTHER ORGANIC MATERIAL IS FOUND, IT SHALL BE REMOVED AND REPLACED WITH QUALITY BACKFILL MATERIAL OBTAINED FROM THE GRADING OPERATIONS OR OTHER SOURCE APPROVED BY THE ENGINEER. THE ORGANIC MATERIAL SHALL BE THEN USED AS TOP DRESSING WHEN MIXED
- THE CONTRACTOR SHALL NOTIFY JURISDICTIONAL PUBLIC WORKS DIVISION AND MILLS, SHORT & ASSOCIATES AT LEAST ONE WEEK BEFORE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR SHALL OBTAIN AN FDOT R/W PERMIT PRIOR TO COMMENCING WORK WITHIN FDOT
- 6. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
- 7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE FOR CONSTRUCTION OPERATIONS.
- 9. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 10. CONTRACTOR SHALL SUPPLY DENSITY TEST TO ENGINEER ON ALL SUB-GRADE AND BASE. TEST SHALL BE PREPARED PER AASHTO T-180 METHOD
- 11. SLOPE GRADES FROM ELEVATIONS SHOWN TO THE EXISTING GRADE AT PROPERTY LINE.
- 12. CONTRACTOR SHALL NOTIFY ENGINEER AT LEAST 48 HOURS IN ADVANCE FOR ANY INSPECTIONS.
- 13. ANY EXISTING FLOW WELLS SHALL BE PLUGGED AS PART OF SITE DEVELOPMENT.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRICTION AREA BEFORE COMMENCING WORK.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

PAVING AND DRAINAGE NOTES

- 1. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
- 2. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT

DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING OR PLANTING.

- 3. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
- 4. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE LOCATED AT FINISHED GRADE ELEVATION.
- AS AN ALTERNATIVE, CONTRACTOR MAY USE ALTERNATIVE PIPE MATERIALS IN LIEU OF THOSE SPECIFIED IN THE CONSTRUCTION DOCUMENTS. HOWEVER, CONTRACTOR MUST RECEIVE APPROVAL OF ALTERNATIVE PIPE MATERIALS IN WRITING BY THE CONTROLLING JURISDICTION AND MILLS, SHORT &
- STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. TOP SOIL WHICH HAS BEEN STRIPPED AND STOCK PILED DURING THE COURSE OF CONSTRUCTION SHALL BE REDISTRIBUTED ON ALL REGRADED SURFACES SO AS TO PROVIDE AT LEAST FOUR INCHES OF EVEN COVER TO ALL
- 7. ALL DISTURBED AREAS WITH SLOPES UP TO 6:1 SHALL BE SEEDED AND MULCHED. SLOPES STEEPER THAN 6:1 SHALL BE SODDED AND SLOPES 3:1 OR STEEPER SHALL HAVE THE SOD PEGGED.
- 8. SEE TABLE 2.0 ON SHEET G-3 FOR REQUIRED STORM PIPE COVER BENEATH AN UNPAVED SECTION, RIGID PAVEMENT, AND FLEXIBLE PAVEMENT
- THE TABULATED VALUES ARE RECOMMENDED MINIMUM DIMENSIONS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT LOADS OR HIGHWAY TRAFFIC LOADS BEFORE PAVEMENT IS COMPLETED. SOME SIZE THICKNESS COMBINATIONS MAY REQUIRE MINIMUM COVER GREATER THAN THOSE LISTED ABOVE. SEE FDOT INDEX 205, SHEETS 1-6.
- 10. ALL RCP STORM WATER PIPE SHALL MEET THE COVER & CLASS CRITERIA AS OUTLINED IN FDOT INDEX 205.
- 11. ALL STORM PIPE JOINTS SHALL BE WRAPPED AS SPECIFIED IN FDOT INDEX 280.
- 12. THE LAST FOOT OF STORM WATER POND SHALL NOT BE EXCAVATED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- 13. ANY FILL MATERIAL MUST BE APPROVED BY ENGINEER IN WRITING PRIOR TO PLACEMENT.
- 14. SIGNIFICANT CARE MUST BE TAKEN WHEN GRADING RETENTION PONDS TO ENSURE THAT POND BOTTOMS DO NOT BECOME COMPACTED DURING CONSTRUCTION OR SEALED BY CONSTRUCTION SEDIMENT. IF SEDIMENTATION OR COMPACTION OF A POND BOTTOM OCCURS, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THE DESIGN HYDRAULIC CONDUCTIVITY.
- 15. THE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), REQUIRES ALL PROPERTY OWNERS TO PERFORM A STORMWATER SYSTEM INSPECTION TO ASSURE THE PONDS, INLETS, AND PIPES ON SITE ARE BEING WELL-MAINTAINED (E.G., PROPERLY MOWED AND CLEAR OF DEBRIS). THE INTENT IS TO GUARANTEE THAT CONTAMINATED RAIN RUN-OFF FROM THE PROPERTY WILL NOT ADVERSELY AFFECT THE SURROUNDING AREA.
- 16. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR
- 17. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- 18. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 19. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- 20. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- 21. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE
- 22. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT.
- 23. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 24. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- 25. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACTOR DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS AS NOT IN AGREEMENT, THE MOST STRINGENT SHALL
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL):1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

29. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORMWATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

SANITARY SEWER NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH JURISDICTIONAL MANUAL OF STANDARD SPECIFICATIONS FOR WASTEWATER CONSTRUCTION.
- 2. ALL MANHOLES SHALL BE 4 FT. INSIDE DIAMETER.
- 3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
- 4. ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER, UNLESS SPECIFIED OTHERWISE ON PLANS.
- 5. INVERTS OF SANITARY SERVICE LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE
- 6. MINIMUM AS BUILT 8" PVC SEWER LINE SLOPE WILL BE 0.40% MINIMUM SLOPE OR WILL BE RELAID BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
- 7. MARK LATERALS WITH 4" X 4" X 8' PT POST PAINTED GREEN ON END.
- 8. PIPE MATERIAL IS ASTM D3034, SDR-26 UNLESS OTHERWISE NOTED.
- 9. A MINIMUM OF 1.00% SLOPE SHALL BE MAINTAINED ON THE SANITARY SEWER SERVICE LATERALS. AT NO TIME SHALL A SANITARY SEWER LATERAL HAVE A SLOPE OF 15% OR GREATER.
- 10. SANITARY SEWER GRAVITY MAINS ARE TO BE UPGRADED IN MATERIAL TO WATER MAINS STANDARDS AND HYDROSTATICALLY PRESSURE TESTED WITH WATER TO ENSURE JOINT TIGHTNESS IF EITHER OF THE HORIZONTAL OR VERTICAL MINIMUM REQUIRED CLEARANCE FROM A WATER MAIN CANNOT BE MAINTAINED OR IF THE SEWER MAIN IS ABOVE THE WATER MAIN.
- 11. LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT:
- A. THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF
- THE SYSTEM. B. EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
- C. AIR TESTS, AS MINIMAL, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES, AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244
- 12. DEFLECTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, CHAPTER 33.85, FOR ALL GRAVITY SANITARY SEWER LINES. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
- A. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
- B. USING A RIGID BALL OR MANDREL FOR THE PIPE DEFLECTION TESTS WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX. TO WHICH THE
- C. PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

WATER MAIN CONSTRUCTION NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AS WELL AS THE UTILITY PROVIDERS MANUAL OF STANDARDS AND SPECIFICATIONS FOR WATER MAIN CONSTRUCTION.
- 2. SEPARATION REQUIREMENTS (SEE TABLE 1.0-UTILITY SEPARATIONS ON SHEET G-3)
- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS, SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS: NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING
- RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 3' AND PREFERABLY 10'
- BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST 6' AND PREFERABLY 10' BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C., THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3'
- WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6' ABOVE THE TOP OF THE SEWER. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS
- NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY GRAVITY OR VACUUM-TYPE SANITARY SEWER PIPE SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6" AND PREFERABLY 12" ABOVE OR AT LEAST 12" BELOW THE OUTSIDE OF THE OTHER PIPE. IT IS
- PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAINS IS AT LEAST
- 12" ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. AT THE UTILITY CROSSINGS DESCRIBED IN THE ABOVE PARAGRAPHS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 3' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST 6' FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE
- CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. NO WATER MAIN SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR A STORM SEWER MANHOLE. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST 3' FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AT LEAST 3' BUT PREFERABLY 10' FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST 10' FROM ANY EXISTING OR PROPOSED ON-SITE SEWAGE TREATMENT OR DISPOSAL SYSTEM AS DEFINED IN SECTION 381.00652(2), F.S. AND RULE 64E-6.002, F.A.C.
- ADHERENCE TO THE ABOVE CONSTRAINTS AND SEPARATIONS IN THE ABOVE ITEMS SHALL BE COMPLIED WITHOUT EXCEPTION. IF FOR SOME REASON WHERE IT IS NOT TECHNICALLY FEASIBLE OR ECONOMICALLY SENSIBLE THAT THE ABOVE ITEMS CANNOT BE COMPLIED WITH. CONTRACTOR IS TO STOP WORK AND NOTIFY THE ENGINEER OF RECORD FOR THE APPROPRIATE SOLUTION. THE SOLUTION WILL BE SUBMITTED TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR APPROVAL PRIOR TO WORK COMMENCEMENT.
- 3. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
- 4. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER 5. ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED EXTENSION WHERE NEEDED.
- 6. ALL PUBLIC WATER SYSTEMS COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT SHALL BE INSTALLED UNDER THIS PROJECT, AND THAT SHALL COME INTO
- CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND SHALL BE MARKED WITH NSF SEAL OF APPROVAL. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED MARKED IN ACCORDANCE WITH SUBPARAGRAPHS 62-555.320(21)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR IF PAINT IS USED INSTEAD OF TAPE. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF
- 8. ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR.

24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES A LONG EACH SIDE OF THE PIPE AS WELL AS A LONG THE TOP OF THE PIPE.

- 9. MARK DRINKING WATER SERVICES WITH A 4" X 4" X 8' PT POST PAINTED BLUE ON END.
- 10. PIPE MATERIALS: ALL PIPES, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
- A. PVC WATER MAINS 4 INCHES TO 12 INCHES SHALL BE IN ACCORDANCE WITH AWWA C900, LATEST EDITION AND SHALL BE DR18. PVC WATER MAINS 14 INCHES TO 36 INCHES SHALL BE IN ACCORDANCE WITH AWWA C905, LATEST EDITION AND SHALL BE DR18. PVC PIPES LESS THAN 4 INCHES ARE NOT ALLOWED INTHE UTILITY PROVIDERS. IN OTHER JURISDICTIONS, THEY SHALL BE IN ACCORDANCE WITH ASTM D1785 (SCHEDULE 40, 80, 120) OR ASTM D2241 SDR 21. MINIMUM WORKING PRESSURE FOR ALL PVC SHALL BE 150 PSI. ALL PVC PIPE SHALL HAVE THE SAME O.D. AS DUCTILE IRON PIPE. PVC PIPE JOINTS SHALL BE IN ACCORDANCE WITH ASTM D3139 AND AWWA STANDARDS.
- B. DUCTILE IRON PIPE SHALL CONFORM TO ANSI A21.51/AWWA C151 AND SHALL BE A MINIMUM OF CLASS 50. DUCTILE IRON JOINTS SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
- C. ALL SERVICES SHALL BE POLYETHYLENE TUBING, CLASS 160 AND SHALL BE IN ACCORDANCE WITH AWWA C901.
- 11. WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE UTILITIES DIVISION. ALL VALVES SHALL BE OPERATED BY PERSONNEL ONLY. WATER MAINS ARE TO BE DISINFECTED PER ANSIWWA C651-92 AND UTILITIES DIVISION MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION SECTION 51.6 WHICH INCLUDES A FULL FLUSH.
- 12. ALL VALVES SHALL BE LOCATED IN NON PAVED AREAS, UNLESS SPECIFIED ON PLANS.
- 13. FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.

FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62.610, F.A.C.

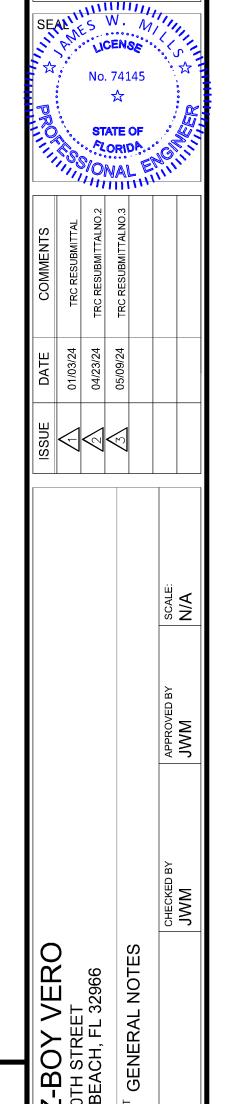
- 14. IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS. THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
- 15. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT SHALL CONTAIN NO MORE THAN 0.2% LEAD.
- 16. WHERE NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT CANNOT BE AVOIDED, THEY SHALL BE PROVIDED WITH A FIRE FLUSHING HYDRANT OR BLOW-OFF FOR FLUSHING PURPOSES. 17. ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT SHALL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED

STORM SEWER, STORM WATER FORCE MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR

VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER

- 18. WATER SERVICES ARE TO TERMINATE 1' OUTSIDE ROW ALONG THE PROPERTY LINE.
- 19. PROPOSED FIRE HYDRANTS CONNECTED TO THE POTABLE WATER MAIN, FOR THIS PROJECT, SHALL BE PAINTED PER JURISDICTION. FIRE HYDRANTS CONNECTED TO THE DESIGNATED FIRE LINE SHALL BE PAINTED PER JURISDICTION.
- 20. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(b)3,F.A.C. USING BLUES AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE-STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPED APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [FAC 62-555.320(21)(b)3]
- 21. THE OPEN END OF THE AIR RELIEF PIPE FROM ALL AUTOMATIC AIR RELIEF VALVES WILL BE EXTENDED TO AT LEAST ONE FOOT ABOVE GRADE AND WILL BE PROVIDED WITH A SCREENED, DOWNWARD-FACING ELBOW. [FAC 62-555.320(21)(b)3, AND RSWW.8.4.2]
- 22. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE. [FAC 62-555.320(21)(b)3, AND RSWW.8.5.2]
- 23. ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT. [FAC 62-555.320(21)(b)3, AND RSWW.8.5.4]
- 24. NEW OR ALTERED WATER MAIN INSTALLATION AND PRESSURE AND LEAKAGE TESTING, SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS. PVC WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C605. DUCTILE IRON WATER MAIN INSTALLATION AND TESTING SHALL CONFORM TO AWWA C600.
- 25. NEW OR ALTERED WATERMAINS, INCLUDING FIRE HYDRANT LEADS AND SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER. SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH





PROJ. NO.

SHEET NO.

23-1160

11/07/202

FORCE MAIN NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH THE UTILITY PROVIDERS MANUAL OF STANDARDS AND SPECIFICATIONS FOR FORCE MAIN CONSTRUCTION.
- 2. PIPE LENGTHS SHOWN IN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
- 3. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
- 4. VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, THREADED EXTENSIONS WHERE NEEDED, UNLESS OTHERWISE
- 5. ALL PVC FORCE MAIN SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION
- 6. ALL NON-METALLIC FORCE MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 14 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC FORCE MAINS SHALL BE EITHER A SOLID GREEN COLOR OR WHITE WITH GREEN LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
- 7. HYDROSTATIC & LEAKAGE TESTING OF THE FORCE MAIN SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600.

8. PIPE MATERIALS:

- PVC SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARDS C900., LATEST EDITION. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 100 PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 25 UNLESS OTHERWISE NOTED. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE. PVC JOINT- SHALL BE IN ACCORDANCE WITH ASTM D3139. DUCTILE IRON JOINT- SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.
- 9. AIR RELEASE VALVES SHALL BE REQUIRED AT ALL HIGH POINTS IN THE PROPOSED FORCE MAIN, AS SHOWN ON PLANS. HIGH POINTS IN THE FORCE MAIN ARE DEFINED AS A CHANGE IN ELEVATION TWICE THE DIAMETER OF THE PIPE.
- 10. ALL FORCE MAINS TO BE CONSTRUCTED WITH A MINIMUM OF 3' FEET OF COVER.
- 11. TESTING OF THE SEWAGE COLLECTION SYSTEM IS AS FOLLOWS:
- A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL STANDARD FOR LOW PRESSURE AIR TESTS. AIR TEST, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
- B. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT. C. HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.
- D. DEFLECTION TESTS ARE REQUIRED FOR ALL FLEXIBLE PIPE EXCLUDING FORCE MAINS. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.D MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

AS-BUILT NOTES:

- 1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS.
- A. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
- B. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, WATER, REUSE AND WASTEWATER PIPING AND RELATED APPURTENANCES. ALL PIPING LOCATIONS INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.
- C. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER. D. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING
- RELOCATION SHALL BE CLEARLY SHOWN.
- E. LOCATION OF ALL INLETS AND MANHOLES, HYDRANTS, VALVES AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO PREFERABLY THREE PERMANENT POINTS. F. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE VERIFIED AND SHOWN. THE INVERTS AND GRADE ELEVATIONS OF ALL INLETS, CONTROL
- STRUCTURES AND MANHOLES SHALL BE SHOWN. G. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. SPOT ELEVATIONS SHALL BE TAKEN AT TOP OF BANK, POND BOTTOM, AND ALL
- GRADE BREAKS AT 50' INTERVALS. H. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN WATER MAIN AND STORM DRAINAGE/SANITARY
- SEWER/RECLAIM WATER MAINS AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA.
- WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- WHERE THE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCE MAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSING, FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- 2. EACH SHEET OF THE PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

CLEARANCES:

- 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 90 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
- 2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL UTILITY IMPROVEMENTS, PRESSURE TESTS, BACTERIOLOGICAL TESTS. AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS WITH F.D.E.P. AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.
- 3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIGNED AND SEALED AS-BUILTS OF ALL STORM WATER SYSTEM IMPROVEMENTS AND ANY OTHER INFORMATION NECESSARY FOR THE CLEARANCE APPROVALS AND THE LOCAL UTILITY PROVIDER. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER 60 DAYS PRIOR TO THE ANTICIPATED COMPLETION OF CONSTRUCTION AND/OR CERTIFICATION OF COMPLETION APPROVAL DATE.

DEMOLITION NOTES:

- 1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
- 2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID

TABLE 1.0 - UTILITY SEPARATION

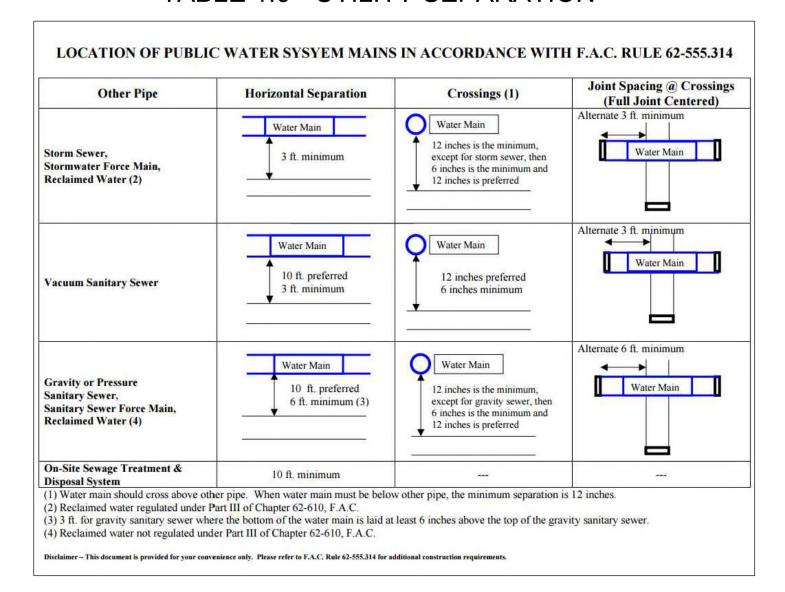
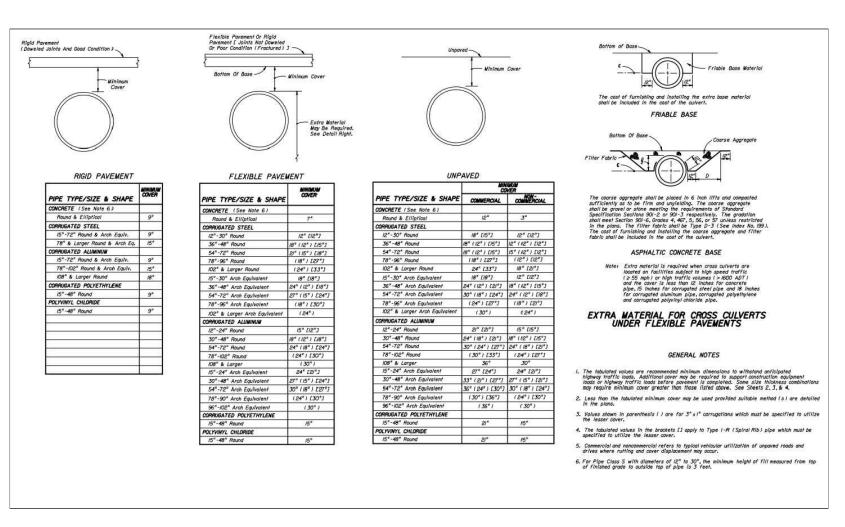
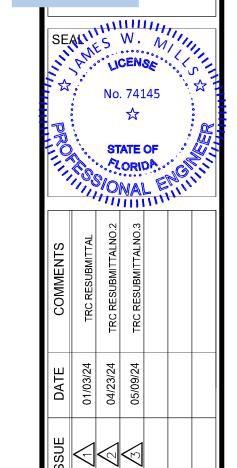


TABLE 2.0 - STORM PIPE COVER







PROJ. NO. 23-1160 11/07/2023 DATE SHEET NO.

15' 30'

SURVEYORS NOTES:

LEGAL DESCRIPTION PROVIDED BY CLIENT. ADJOINERS SHOWN HAVE NOT BEEN SURVEYED.

ALL RIGHTS-OF-WAY SHOWN HEREON ARE OPEN TO TRAVEL UNLESS OTHERWISE NOTED.

1. NO UNDERGROUND FOUNDATIONS HAVE BEEN LOCATED.

SEPTIC TANKS AND WELLS IF SHOWN ARE APPROXIMATE LOCATIONS AND SHOULD BE FIELD VERIFIED BY A LICENSED CONTRACTOR FOR CORRECT POSITION AND SEPARATION. UNDERGROUND UTILITIES OR FOOTERS HAVE NOT BEEN LOCATED.

2. ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP NUMBER 12061C0239H, HAVING AN EFFECTIVE DATE DECEMBER 4, 2012. THIS PROPERTY APPEARS TO LIE WITHIN ZONE X, OUTSIDE SPECIAL FLOOD HAZARD AREA.

ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GROUND DISTANCES AND ARE REFERENCED TO U.S.

3. THE BOUNDARY DETERMINATION AND DELINEATION SHOWN ON THIS MAP OF SURVEY WAS BASED UPON THE PROFESSIONAL OPINION OF THE REGISTERED SURVEYOR PURSUANT TO NORMAL PRINCIPALS AND PRACTICES OF LAND SURVEYING AND IS NOT INTENDED TO IMPLY OR DETERMINE OWNERSHIP. THIS SURVEY DOES NOT INTEND TO DELINEATE LOCAL AREAS OF CONCERN OR ANY OTHER JURISDICTIONAL DETERMINATION.

4. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT AND USE OF THE PERSONS AND/OR ENTITIES NAMED HEREON FOR THE PURPOSES IDENTIFIED HEREON ONLY. UNLESS OTHERWISE STATED, CERTIFICATION OF THIS SURVEY MAP APPLIES ONLY TO THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J17 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES. THE CERTIFICATION IN NO WAY CONSTITUTES NEITHER GUARANTY NOR WARRANTY TO ANY OTHER INFORMATION NOT SHOWN HEREON. ADDITIONS, DELETIONS OR REVISIONS TO THIS DRAWING BY OTHERS ARE NOT PERMITTED AND THIS SURVEY MAY NOT BE TRANSFERRED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE SIGNING SURVEYOR. THIS SURVEY IS NOT VALID FOR ANY OTHER PURPOSE OTHER THAN INTENDED BY THE SIGNING SURVEYOR.

5, ALL TREES SHOWN ON THIS SURVEY ARE FOR GRAPHIC PURPOSES ONLY. NO ORDER OF ACCURACY HAS BEEN APPLIED TO THE POSITION OF THE TREES. POSITION OF TREES SHOULD BE FIELD VERIFIED BY CONTRACTOR FOR CONSTRUCTION PURPOSES.

6. NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WAS OBSERVED DURING THE PROCESS OF CONDUCTING THE FIELD WORK REFLECTED HEREON.

7. NO PROPOSED CHANGES TO STREET RIGHT-OF-WAY LINES WAS PROVIDED TO THE SURVEYOR. NO EVIDENCE OF RECENT STREET, SIDEWALK CONSTRUCTION OR REPAIRS WAS OBSERVED DURING THE PROCESS OF CONDUCTING THE FIELD WORK REFLECTED HEREON.

8. THE LANDS SHOWN HERON AND ADJACENT PARCELS OF LAND, WHERE THEY SHARE A COMMON BOUNDARY LINE ARE CONTIGUOUS WITH NO GAPS, GORES, HIATUS OR OVERLAPS.

9. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NUMBER NCS-1180217-MKE, WITH AN COMMITMENT DATE OF MAY 25, 2023 AT 7:30 AM. AS TO SCHEDULE B-II, THE FOLLOWING APPLIES: ITEM 1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR

MORTGAGE THEREON COVERED BY THIS COMMITMENT. (NOT A SURVEY MATTER) ITEM 2. ANY RIGHTS, INTERESTS, OR CLAIMS OF PARTIES IN POSSESSION OF THE LAND NOT SHOWN BY THE PUBLIC RECORDS. (NOT A SURVEY MATTER) ITEM 3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.

(RESOLVED BY THIS MAP OF SURVEY REFLECTED HEREIN) ITEM 4. ANY LIEN OR RIGHT TO A LIEN FOR SERVICES, LABOR, MATERIAL OR EQUIPMENT, UNLESS SUCH LIEN IS SHOWN BY THE PUBLIC RECORDS AT DATE OF POLICY AND NOT OTHERWISE EXCEPTED FROM COVERAGE HEREIN. (NOT A SURVEY MATTER)

ITEM 5. ANY DISPUTE AS TO THE BOUNDARIES CAUSED BY A CHANGE IN THE LOCATION OF ANY WATER BODY WITHIN OR ADJACENT TO THE LAND PRIOR TO DATE OF POLICY, AND ANY ADVERSE CLAIM TO ALL OR PART OF THE LAND THAT IS, AT DATE OF POLICY, OR WAS PREVIOUSLY UNDER WATER. (DEPICTED ON

ITEM 6. TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS OR IN THE RECORDS OF THE LOCAL TAX COLLECTING AUTHORITY, AT DATE OF POLICY. (NOT A SURVEY MATTER)

ITEM 7. THIS ITEM HAS BEEN INTENTIONALLY DELETED. (NOT A SURVEY MATTER)

ITEM 8. TAXES AND ASSESSMENTS FOR THE YEAR 2023, AND ALL SUBSEQUENT YEARS, WHICH ARE NOT YET DUE AND PAYABLE. (NOT A SURVEY MATTER) ITEM 9. TERMS AND CONDITIONS OF ANY EXISTING UNRECORDED LEASE(S), AND ALL RIGHTS OF LESSEE(S) AND ANY PARTIES CLAIMING THROUGH THE LESSEE(S) UNDER THE LEASE(S). (NOT A SURVEY MATTER)

ITEM 10. MATTERS SHOWN ON THE PLAT OF INDIAN RIVER FARMS COMPANY SUBDIVISION, RECORDED IN PLAT BOOK 2, PAGE

25 (DEPICTED ON MAP OF SURVEY)

ITEM 11. EASEMENT GRANTED TO FLORIDA POWER & LIGHT COMPANY BY INSTRUMENT RECORDED IN MISCELLANEOUS BOOK 1, PAGE 228; AS AFFECTED BY SUBORDINATION OF ENCUMBRANCE TO PROPERTY RIGHTS TO STATE OF FLORIDA, RECORDED IN BOOK 315, PAGE 233 OF OFFICIAL RECORDS. (DOES NOT LIE

ITEM 12. EASEMENT FOR DRIVE-WAY OR ROAD-WAY FOR EGRESS AND INGRESS CREATED BY WARRANTY DEED RECORDED IN BOOK 224, PAGE 27 OF OFFICIAL RECORDS. (DEPICTED ON MAP OF SURVEY)

ITEM 13. EASEMENT FOR PARKING CREATED BY WARRANTY DEED RECORDED IN BOOK 584, PAGE 2418 OF OFFICIAL RECORDS; AS AFFECTED BY QUITCLAIM DEED, RECORDED IN BOOK 1047, PAGE 2111 OF OFFICIAL RECORDS; AS AFFECTED BY QUITCLAIM DEED, RECORDED IN BOOK 1049, PAGE 2248 OF OFFICIAL RECORDS.

ITEM 14. COVENANTS, CONDITIONS AND RESTRICTIONS AS SET FORTH IN WARRANTY DEED RECORDED IN BOOK 799, PAGE 281 OF OFFICIAL RECORDS, BUT DELETING ANY COVENANT, CONDITION OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGIO SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN TO THE EXTENT SUCH COVENANTS, CONDITIONS OR RESTRICTIONS VIOLATE 42 USC 3604(C). (NOT A SURVEY MATTER)

EXHIBIT "A"

LEGAL DESCRIPTION THE SOUTH 10 ACRES OF THE WEST 20 ACRES OF TRACT 6, (LESS THE EAST 40 FEET THEREOF), IN SECTION 5, TOWNSHIP 33 SOUTH, RANGE 39 EAST, ACCORDING TO THE LAST GENERAL PLAT OF LANDS IN INDIAN RIVER FARMS COMPANY FILED IN THE OFFICE OF CLERK OF THE CIRCUIT COURT OF ST. LUCIE COUNTY, FLORIDA, IN PLAT BOOK 2,

EXCEPT, HOWEVER, THAT PART OF THE ABOVE DESCRIBED PROPERTY ORIGINALLY CONVEYED TO THE STATE OF FLORIDA AS SAME IS RECORDED IN DEED BOOK 32, PAGE 347 INDIAN RIVER COUNTY, FLORIDA, SAID CONVEYANCE BEEN MADE FOR RIGHT OF WAY PURPOSES FOR PUBLIC ROADS.

LESS AND EXCEPT ANY PORTION THEREOF CONVEYED BY WILLIAM F. KASER AND NOREEN KASER, HIS WIFE TO JAMES C. WALLACE AND MARY HILDA WALLACE, HIS WIFE, BY VIRTUE OF THAT CERTAIN WARRANTY DEED, FILED DECEMBER 16, 1960, RECORDED IN OFFICIAL RECORDS BOOK 115, PAGE 193 AS AFFECTED BY WARRANTY DEED, RECORDED IN OFFICIAL RECORDS BOOK 218, PAGE 257; AS AFFECTED BY WARRANTY DEED, RECORDED IN OFFICIAL RECORDS BOOK 224, PAGE 27 OF THE PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA.

FROM THE SOUTHWEST CORNER OF TRACT 6, SECTION 5, TOWNSHIP 33 SOUTH, RANGE 39 EAST, ACCORDING TO THE LAST GENERAL PLAT OF LANDS OF THE INDIAN RIVER FARMS COMPANY, FILED IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT OF ST. LUCIE COUNTY, FLORIDA, IN PLAT BOOK 2, PAGE 25, RUN SOUTH 89°40' EAST ALONG THE SOUTH BOUNDARY OF TRACT 6 A DISTANCE OF 175 FEET; THENCE NORTH 0° 30' EAST A DISTANCE OF 79.67 FEET TO THE NORTH RIGHT OF WAY OF STATE ROAD 60; THENCE NORTH 89°40' WEST A DISTANCE OF 15 FEET TO THE POINT OF BEGINNING;

THENCE RUN NORTH 0° 30' EAST A DISTANCE OF 124 FEET; THENCE RUN NORTH 89°40' WEST A DISTANCE OF 160 FEET TO THE WEST LINE OF SAID TRACT 6; THENCE RUN SOUTHERLY ALONG SAID WEST LINE OF TRACT 6 A DISTANCE OF 124 FEET TO THE NORTH RIGHT OF WAY LINE OF STATE ROAD 60; THENCE RUN EASTERLY ALONG SAID NORTH RIGHT OF WAY LINE OF STATE ROAD 60, 160 FEET TO THE POINT OF BEGINNING.

LESS AND EXCEPT ANY PORTION THEREOF CONVEYED BY WILLIAM F. KASER AND WILLIAM H. KASER, DOING BUSINESS AS BILL'S T.V. SERVICE CENTER, A CO- PARTNERSHIP AND THE STATE OF FLORIDA, FOR THE USE AND BENEFIT OF THE STATE ROAD DEPARTMENT OF FLORIDA, BY VIRTUE OF THAT CERTAIN DEED, FILED MAY 07, 1969, RECORDED IN OFFICIAL RECORDS BOOK 315, PAGE 229 OF THE PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA.

FROM THE SOUTHWEST CORNER OF TRACT 6, SECTION 5, TOWNSHIP 33 SOUTH, RANGE 39 EAST,

ACCORDING TO THE LAST GENERAL PLAT OF LANDS OF THE INDIAN RIVER FARMS COMPANY, FILED IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT OF ST. LUCIE COUNTY, FLORIDA, IN PLAT BOOK 2, PAGE 25, RUN SOUTH 89°40' EAST ALONG THE SOUTH BOUNDARY OF TRACT 6 A DISTANCE OF 175 FEET; THENCE NORTH 0°30' EAST A DISTANCE OF 79.67 FEET TO THE NORTH RIGHT OF WAY OF STATE ROAD 60, SAID POINT BEING THE POINT OF BEGINNING; THENCE NORTH 0°30' EAST

281.73 FEET ALONG THE WEST BOUNDARY OF WALLACE ACRES SUBDIVISION AS RECORDED IN PLAT BOOK 7, PAGE 12, INDIAN RIVER COUNTY RECORDS, TO THE NORTHWEST CORNER OF LOT 10 OF WALLACE ACRES SUBDIVISION; THENCE NORTH 89° 40' WEST A DISTANCE OF 45 FEET; THENCE SOUTH 0°30' WEST A DISTANCE OF 50 FEET; THENCE SOUTH 89°40' EAST A DISTANCE OF 30 FEET; THENCE SOUTH 0°30' WEST A DISTANCE OF 231.73 FEET TO THE NORTH RIGHT OF WAY OF STATE ROAD 60; THENCE SOUTH 89°40' EAST A DISTANCE OF 15 FEET TO THE POINT OF BEGINNING.

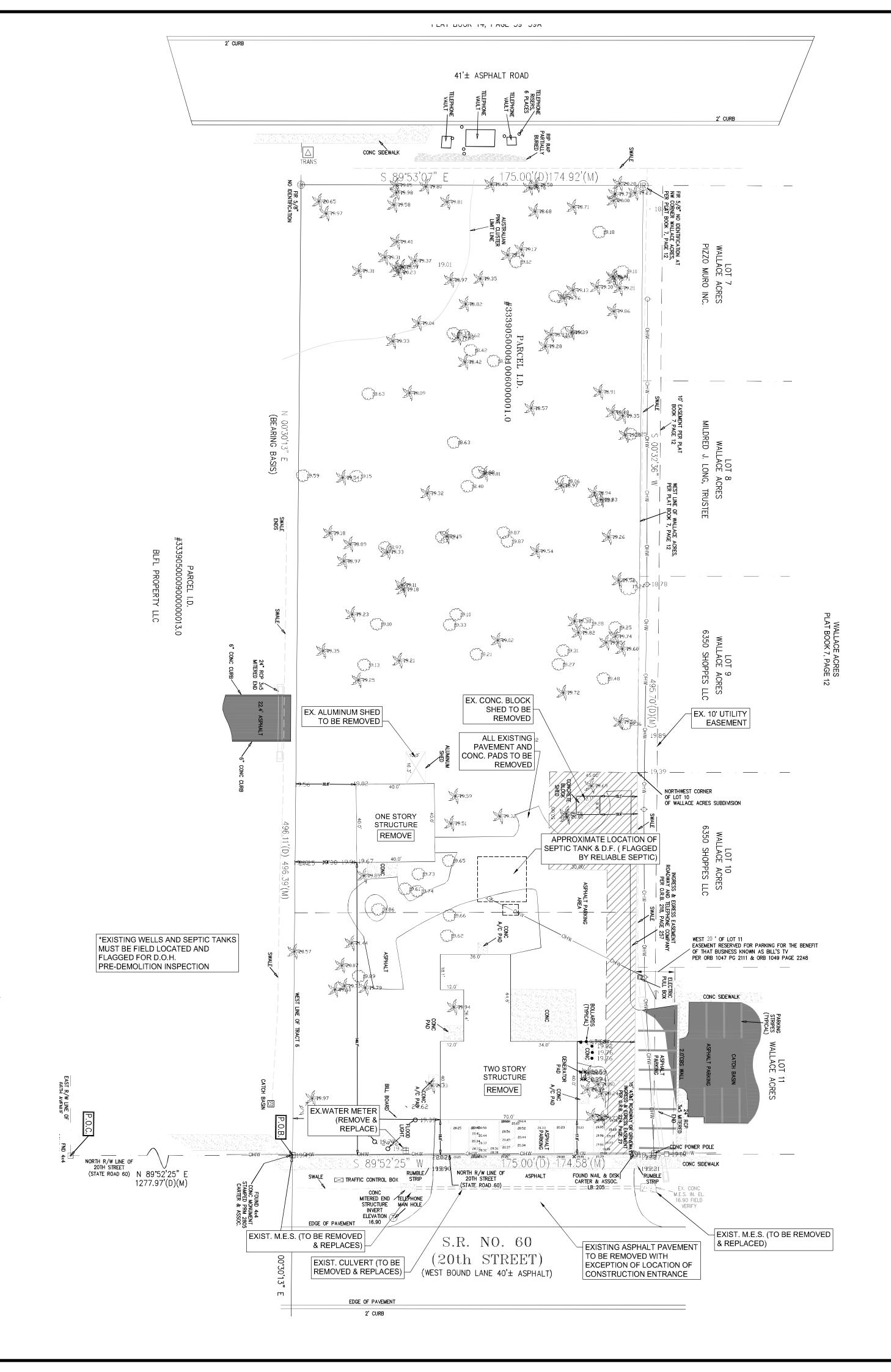
LESS AND EXCEPT ANY PORTION THEREOF CONVEYED BY AMERICAN TELEPHONE AND TELEGRAPH COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK AND THE STATE OF FLORIDA, FOR THE USE AND BENEFIT OF THE STATE ROAD DEPARTMENT OF FLORIDA, BY VIRTUE OF THAT CERTAIN DEED, FILED OCTOBER 15, 1968 RECORDED IN OFFICIAL RECORDS BOOK 318, PAGE 530 OF THE PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA.

SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS THE WEST 175 FEET OF THE SOUTH 10 ACRES OF THE WEST 20 ACRES OF TRACT 6, SECTION 5, TOWNSHIP 33 SOUTH, RANGE 39 EAST, ACCORDING TO LAST GENERAL PLAT OF LANDS OF THE INDIAN RIVER FARMS COMPANY SUBDIVISION RECORDED IN PLAT BOOK 2, PAGE 25, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA; NOW LYING AND BEING IN INDIAN RIVER COUNTY, FLORIDA, LESS STATE ROAD 60 RIGHT OF WAY.

LEGAL DESCRIPTION: BY SURVEYOR SAME AS ABOVE

A PARCEL OF LAND LYING WITHIN SECTION 5, TOWNSHIP 33 SOUTH, RANGE 39 EAST, TRACT 6 OF INDIAN RIVER FARMS COMPANY PLAT BOOK 2, PAGE 25, AS ORIGINALLY FILED IN THE OFFICE OF THE CLERK OF COURTS OF ST. LUCIE COUNTY, FLORIDA. NOW LYING AND BEING IN INDIAN RIVER COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SW CORNER OF THE INDIAN RIVER MALL-THE MALL SUBDIVISON PLAT, AS RECORDED IN PLAT BOOK 14, PAGE 59-59A, ALSO BEING THE NORTH RIGHT OF WAY LINE OF 20TH STREET (STATE ROAD 60) AS PRESENT, AND THE EAST RIGHT OF WAY LINE OF 66TH AVENUE (C.R. 615) AS PRESENT. RUN N 89°52'25" E A DISTANCE OF 1277.97 FEET TO THE POINT OF BEGINNING. THENCE RUN N°00'30'13" E A DISTANCE OF 496.11 FEET; THENCE RUN S 89°53'07" E A DISTANCE OF 174.92 FEET TO THE NORTHWEST CORNER OF WALLACE ACRES, PLAT BOOK 7, PAGE 12, INDIAN RIVER COUNTY, FLORIDA; THENCE CONTINUE ALONG THE WEST LINE OF WALLACE ACRES S 00°'32'36" W A DISTANCE OF 495.70 FEET TO THE NORTH RIGHT OF WAY LINE OF 20TH STREET (STATE ROAD 60) AS PRESENT; THENCE ALONG THE NORTH RIGHT OF WAY LINE OF 20TH STREET S89°52'25 W A DISTANCE OF 174.58 FEET TO THE POINT OF BEGINNING. (CONTAINS 1.99 ACRES)



EXISTING SOIL CONDITIONS:

EXISTING CONDITIONS:

THE SITE IS CURRENTLY BEING UTILIZED AS A COMMERCIAL RETAIL SITE. THE SITE CONTAINS EXISTING BUILDING

THE SEASONAL HIGH WATER TABLE WAS DETERMINED TO BE AT

THE SITE CURRENTLY DRAINS FROM NORTH TO THE SOUTH AND INTO THE FDOT RIGHT-OF-WAY. THE EXISTING SITE DOES NOT

ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP NUMBER 12061C0239 H, HAVING AN EFFECTIVE DATE OF DECEMBER 4, 2012 THIS PROPERTY APPEARS TO LIE WITHIN ZONE X, OUTSIDE SPECIAL FLOOD HAZARD AREA.



FN&D = FOUND NAIL AND DISK SF = SQUARE FOOT) = PLAT (D) = DEED (M) = MEASURE L = CENTERLINE EOP= EDGE OF PAVEMENT CMP = CORREGATED METAL PIPE TFB = TOP OF FORMBOARD BM = SITE BENCHMARK C.B.S. = CONCRETE BLOCK STRUCTURE B = CHORD BEARING

PT = POINT OF TANGENCY FIRC = FOUND IRON ROD WITH CAP □ = CHAIN LINK FENCE

> = WOOD BOARD FENCE = TOP OF BANK = TOE OF SLOPE = OVERHEAD WIRES

CR = CATCH BASIN CATV = CABLE PEDESTAL -O- = WOOD UTILITY POLE

 □ = ELECTRIC TRANSFORMER = TELEPHONE JUNCTION BOX - = FIRE HYDRANT

= EXISTING WELL = BUILDING SETBACK LINE (D) = STORM MANHOLE

WINDER FINE SAND OF THE WINDER SERIES

STRUCTURES AND ASPHALT PAVEMENT.

GROUNDWATER TABLE

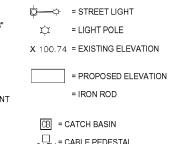
ELEVATION 17.07 NAVD 88.

CURRENT SITE DRAINAGE PATTERN

HAVE A CENTRALIZED STORMWATER SYSTEM.

FLOOD ZONE:

INDIAN RIVER COUNTY BENCHMARK



= WATER VALVE

No. 74145

PROJ. NO.

23-1160 11/07/202 DATE SHEET NO.

SCALE:1" = 30' LEGEND: PROPOSED BUILIDNG PROPOSED ASPHALT (HEAVY DUTY) PROPOSED ASPHALT (STANDARD) PROPOSED ASPHALT (WITHIN ROW) PROPOSED CONCRETE EXISTING CONCRETE PROPOSED OPEN SPACE PROPOSED 1" STABILIZED BASE W/SOD

PROJECT LEGEND:

REQ'D 30" R1-1, HI-INTENSITY STOP SIGN. REQ'D 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT FLOOD ZONE: INDEX #711-001, CURRENT DESIGN STANDARDS. REQ'D 4" WHITE STRIPING.

PROPOSED TEMP. T-TURN AROUND

REQ'D HANDICAP PAVEMENT MARKINGS PER FDOT INDEX #711-001, WITHIN ZONE X, OUTSIDE SPECIAL FLOOD HAZARD AREA. CURRENT DESIGN STANDARDS. (SEE DETAIL, SHEET G-3) REQ'D H.C. PARKING SIGN (WALL MOUNTED) REQ'D "SPECIAL EMPHASIS" CROSS WALK, WHITE.

THERMOPLASTIC LINES PER FDOT INDEX # 711-001, CURRENT DESIGN STANDARDS. W11-2 WITH ARROWS. REQ'D 25 LF DBL. 6" YELLOW THERMOPLASTIC STRIPE PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS. REQ'D 5'-7' CONCRETE SIDEWALK PER DETAIL SHEET C-4.

REQ'D TYPE 'D' CURB PER FDOT INDEX #520-001, CURRENT DESIGN SIDE (EAST) STANDARDS. REQ'D TYPE "D" CURB REQ'D DUMPSTER ENCLOSURE (DOUBLE)

PROPOSED MONUMENT SIGN POLE MOUNTED EXTERIOR LIGHT FIXTURE (SEE PHOTOMETRIC PLAN FOR DETAILS) REQ'D FIRE HYDRANT

12" WHITE PAVEMENT MARKINGS REQ'D ADA MAT (FDOT INDEX #522-002) PROJECTED CONSTRUCTION SCHEDULE: COMMENCEMENT JAN 2024 COMPLETION JAN 2025

JURISDICTIONAL PERMITS: INDIAN RIVER COUNTY LAND MAJOR SITE PLAN PERMIT INDIAN RIVER COUNTY LAND CLEARING PERMIT

INDIAN RIVER COUNTY TREE REMOVAL PERMIT INDIAN RIVER COUNTY TYPE "A" STORMWATER PERMIT INDIAN RIVER COUNTY UTILITY CONNECTION PERMIT

ST. JOHNS RIVER WATER MANAGEMENT 10/2 CERTIFICATION FLORIDA DEP WASTEWATER COLLECTION PERMIT

FLORIDA DEP WATER MAIN EXTENSION PERMIT FDOT DRIVEWAY CONNECTION PERMIT FDOT DRAINAGE PERMIT

ANY PROJECTS THAT AFFECT IRC FIBER OR STREET LIGHTING/SIGNALS CONTACT JEREMY TRUMBLE

VERO CAR CARE, LLC 6366 20TH STREET VERO BEACH, FLORIDA 32966

PROJECT DATA:

772.260.8971 ENGINEER: MILLS, SHORT & ASSOCIATES, LLC. 700 22ND PLACE, STE. 2C/2D VERO BEACH, FLORIDA 32960

772.226.7282 **SURVEYOR:** GSS SURVEYING AND MAPPING, LLC 4620 LIPSCOMB STREET NE, SUITE 2

PALM BAY, FL 32905 321-914-3978

PARCEL ID: 33-39-05-00001-0060-00001.0 SITE ADDRESS:

6366 20TH STREET VERO BEACH, FL 32966

GENERAL COMMERCIAL - CG

LAND USE: COMMERCIAL/ INDUSTRIAL - C/I

FURNITURE AND HOME FURNISHING STORES: PERMITTED USE

ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP NUMBER 12061C0239H HAVING AN EFFECTIVE DATE DECEMBER 4, 2012. THIS PROPERTY APPEARS TO LIE

SITE AREA: 86,681 SQUARE FEET 1.99 ACRES

BUILDING SETBACKS: PROVIDED FRONT (SOUTH) (S.R. 60) 93.0' FRONT (NORTH) (MALL) 263.3' 15.4'

MAX. BUILDING COVERAGE = 40% EXISTING = 6,005 S.F. (0.13 AC / 6.9%) PROPOSED =15,680 S.F. (0.35 AC / 18.0%) MINIMUM OPEN SPACE = 25% EXISTING = 68,586 S.F. (1.57 AC / 79.1%) PROPOSED = 40,203 S.F. (0.89 AC / 44.8%) **IMPERVIOUS CALCULATIONS:**

EXISTING = 18,095 S.F. (0.41 AC / 20.9%) BUILDING COVERAGE= 6,005 S.F. (0.13 AC / 6.9%) PAVEMENT/ CONCRETE=12,090 S.F. (0.27 AC / 13.9%) PROPOSED = 46,478 S.F. (1.06 AC /53.6%)

BUILDING COVERAGE =15,680 S.F (0.35 AC / 18.0%) PAVEMENT= 25,422 S.F. (0.58 AC / 29.3%) CONCRETE= 5,376 S.F. (0.12 AC / 6.2%)

STORMWATER POND AREA (@ CONTROL EL.)= 13,307 S.F. (0.30 AC / 15.3%)

GREEN SPACE = 26,896 S.F. (0.61 AC /31.0%) = SITE AREA(86,681S.F.) - IMPERVIOUS AREA(46,478.F.) - SMW POND AREA(13,307S.F.)

MAXIMUM BUILDING HEIGHT (35-FT) = 30'

PARKING CALCULATION: FURNITURE, CARPET AND MAJOR APPLIANCE STORES: ONE (1) SPACE PER FOUR HUNDRED (400) SQUARE FEET OF GROSS BUILDING AREA FOR STORES CONTAINING DISPLAY AREA ONLY. PARKING REQUIREMENT:

15,680 S.F. / 400 S.F. PER ONE (1) SPACE = 39.2 = 40 SPACES TOTAL SPACES PROVIDED = 40 EA. STANDARD SPACES PROVIDED = 38 EA. ADA HANDICAP SPACES = 2 EA ITE TRIP GENERATOR 11TH ED.:

LAND USE: FURNITURE STORE (890) AVG. RATE: 6.30 TRIPS PER 1,000 S.F. ADT: 15,680 S.F. / 1,000 S.F. = 15.6 x 6.30 TRIPS = 98.78 TRIPS PER DAY

1. COMMERCIAL/MULTI-FAMILY BUILDINGS SHALL POST A MINIMUM 6-INCH NUMERICAL ADDRESS.

2. FIRE LANES SHALL NOT BE LESS THAN 20-FT OF UNOBSTRUCTED WIDTH, ABLE TO WITHSTAND THE LIVE LOADS OF FIRE APPARATUS (32-TONS).

3. ALL BUILDINGS REQUIRE A KEY ACCESS BOX (KNOX).

4. COMBUSTIBLE CONSTRUCTION REQUIRES TEMPORARY FIRE LANES AND HYDRANT INSTALLATION PRIOR TO COMBUSTIBLES ON SITE.

5. CONTRACTOR SHALL ASSESS CONDITION OF EXISTING SIDEWALK AND REPAIR A NECESSARY

6. BUILDING USING VERTICAL OR HORIZONTAL LIGHT-FRAME CONSTRUCTION IN ANY PORTION OF THE STRUCTURE SHALL BE MARKED WITH A SIGN AS REQUIRED BY FLORIDA STATE STATUTE 633-027 AND THE SIGN SHALL BE REQUIRED TO COMPLY WITH THE FLORIDA ADMINISTRATIVE CODE 69A-0.012 AND/OR 69A-60.0081. SIGN MUST BE 8-INCHES BY 8-INCHES.

7. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. IF THE BUILDING IS ADDRESSED ON ANOTHER STREET, SOMETIMES REFERRED TO AS A VANITY ADDRESS, THE STREET NAME SHALL ALSO BE INCLUDED IN LETTERS WITH THE SAME DIMENSIONS AS THE ADDRESS NUMBER REQUIREMENTS OF 10.11.1.2.

DEAD-END FIRE DEPARTMENT ACCESS ROADS IN EXCESS OF 150 FT (46 M) IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE FIRE APPARATUS TO TURN AROUND.

9. ALL EXISTING AND PROPOSED FIRE PROTECTION WATER LINES WITHIN THE BOUNDARIES OF, OR ADJACENT TO, THE SITE MUST BE SHOWN. THIS SHALL INCLUDE BACKFLOW PREVENTION DEVICES, FIRE DEPARTMENT CONNECTIONS, AND FIRE HYDRANTS

10. FIRE HYDRANTS SHALL BE LOCATED NOT MORE THAN 12 FT (3.7 M) FROM THE FIRE DEPARTMENT ACCESS ROAD.

11. FIRE DEPARTMENT ACCESS ROADS PROVIDED IN ACCORDANCE WITH 18.2.3 SHALL BE PROVIDED AT THE START OF A PROJECT AND SHALL BE MAINTAINED THROUGHOUT

12. VERTICAL CLEARANCE FOR FIRE APPARATUS SHALL HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13'-6".

13. FIRE APPARATUS STABILIZED TURN AROUND SHALL BE DESIGNED TO WITHSTAND 32 TON LIVE LOAD CAPACITY.

14. WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMMENCING CONSTRUCTION

15. THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE AN ACCESS BOX(ES) TO BE INSTALLED IN AN ACCESSIBLE LOCATION WHERE ACCESS TO OR WITHIN A STRUCTURE OR AREA IS DIFFICULT BECAUSE OF SECURITY. THE ACCESS BOX(ES) SHALL BE OF AN APPROVED TYPE LISTED IN ACCORDANCE WITH UL 1037. NFPA 1:18.2.2.1

LEGAL DESCRIPTION:

A PARCEL OF LAND LYING WITHIN SECTION 5, TOWNSHIP 33 SOUTH, RANGE 39 EAST, TRACT 6 OF INDIAN RIVER FARMS COMPANY PLAT BOOK 2, PAGE 25, AS ORIGINALLY FILED IN THE OFFICE OF THE CLERK OF COURTS OF ST. LUCIE COUNTY, FLORIDA. NOW LYING AND BEING IN INDIAN RIVER COUNTY, FLORIDA, BEING

COMMENCING AT THE SW CORNER OF THE INDIAN RIVER MALL-THE MALL SUBDIVISON PLAT, AS RECORDED IN PLAT BOOK 14, PAGE 59A, ALSO BEING THE NORTH RIGHT OF WAY LINE OF 20TH STREET (STATE ROAD 60) AS PRESENT, AND THE EAST RIGHT OF WAY LINE OF 66TH AVENUE (C.R. 615) AS PRESENT. RUN N 89°52'25" E A DISTANCE OF 1277.97 FEET TO THE POINT OF BEGINNING. THENCE RUN N°00'30'13" E A DISTANCE OF 496.11 FEET; THENCE RUN S 89°53'07" E A DISTANCE OF 174.92 FEET TO THE NORTHWEST

CORNER OF WALLACE ACRES, PLAT BOOK 7, PAGE 12, INDIAN RIVER COUNTY, FLORIDA; THENCE CONTINUE

ALONG THE WEST LINE OF WALLACE ACRES S°0'32'36" W A DISTANCE OF 495.70 FEET TO THE NORTH RIGHT OF WAY LINE OF 20TH STREET (STATE ROAD 60) AS PRESENT; THENCE ALONG THE NORTH RIGHT OF WAY LINE OF 20TH STREET S89°52'25 W A DISTANCE OF 174.58 FEET

TO THE POINT OF BEGINNING.

(Contains ±1.99 acres or ±86,681 square feet).

GENERAL NOTES

1. PARKING STALL WIDTHS SHALL BE DIMENTIONED FROM CENTERLINE TO CENTERLINE OF WHITE STRIPES. THIS APPLIES TO HANDICAP PARKING STALLS ALSO.

2. ALL PARKING SPACES WITH EXCEPTION OF THE HANDICAPPED PARKING SPACES SHALL BE STRIPED IN WHITE, RETRO-REFLECTIVE TRAFFIC PAINT AND BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, CURRENT EDITION, SECTION 710.

3. ALL HANDICAP PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH THE FDOT STANDARD INDEX 711-001, CURRENT EDITION. 4. INDIAN RIVER TRAFFIC ENGINEERING HAS UNDERGROUND CONDUIT FOR TRAFFIC

SIGNAL INTERCONNECTIONS IN THE AREA AS WELL AS OTHER TRAFFIC SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF THIS EQUIPMENT AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.

5. ALL NUISANCE EXOTIC VEGETATION EXISTING ONSITE MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT.

6. ALL SOLID, NON-BREAKAWAY OBJECTS (GATE POSTS, BOLLARDS, STREET POLES, ETC.) ALONGSIDE INTERIOR STREETS AND DRIVING AISLES WITH A DESIGN SPEED OF 25MPH OR LESS, THE MINIMUM CLEAR ZONE IS 2.5 FEET FROM THE FACE OF THE CURB (TYPE D OR F), OR 6 FEET FROM THE EDGE OF THE TRAVEL LANE, BOTH PUBLIC AND PRIVATE.

TRAFFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE ADVANCED NOTICE TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION BY SUBMITTING A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) FOR REVIEW. IT IS RECOMMEND TO SUBMIT A PROPOSED TTCP FOR THE SUBJECT PROJECT AT LEAST 72 HOURS IN ADVANCE FOR LANE CLOSURES AND TEN (1) DAYS WATER THE TEN COLOR AND TEN COLOR AND TEN (1) DAYS WATER THE TEN COLOR AND TEN (1) DAYS FOR ANY ROAD CLOSURE. THE TTCP SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD PLANS, FY 2020-2021, INDEX #102-600.

2. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER DARK.

3. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT AND SHALL BE PROTECTED BY TYPE II BARRICADES.

4. CONSTRUCTION FENCING USED IN THE WORK AREA TO PROTECT EQUIPMENT OR EXCAVATIONS SHALL NOT BLOCK SIGHT DISTANCE NEAR INTERSECTIONS OR DRIVEWAYS.

5. INDIAN RIVER COUNTY TRAFFIC ENGINEERING MAY HAVE UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL INTERCONNECTIONS AND EQUIPMENT IN THIS AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF THIS EQUIPMENT AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.

6. ALL IMPACTS TO THE RIGHT-OF-WAY SHALL BE SODDED WITHIN THREE (3) DAYS OF FINAL

7. PARKING STALL WIDTHS SHALL BE DIMENSIONED FROM CENTERLINE TO CENTERLINE OF THE

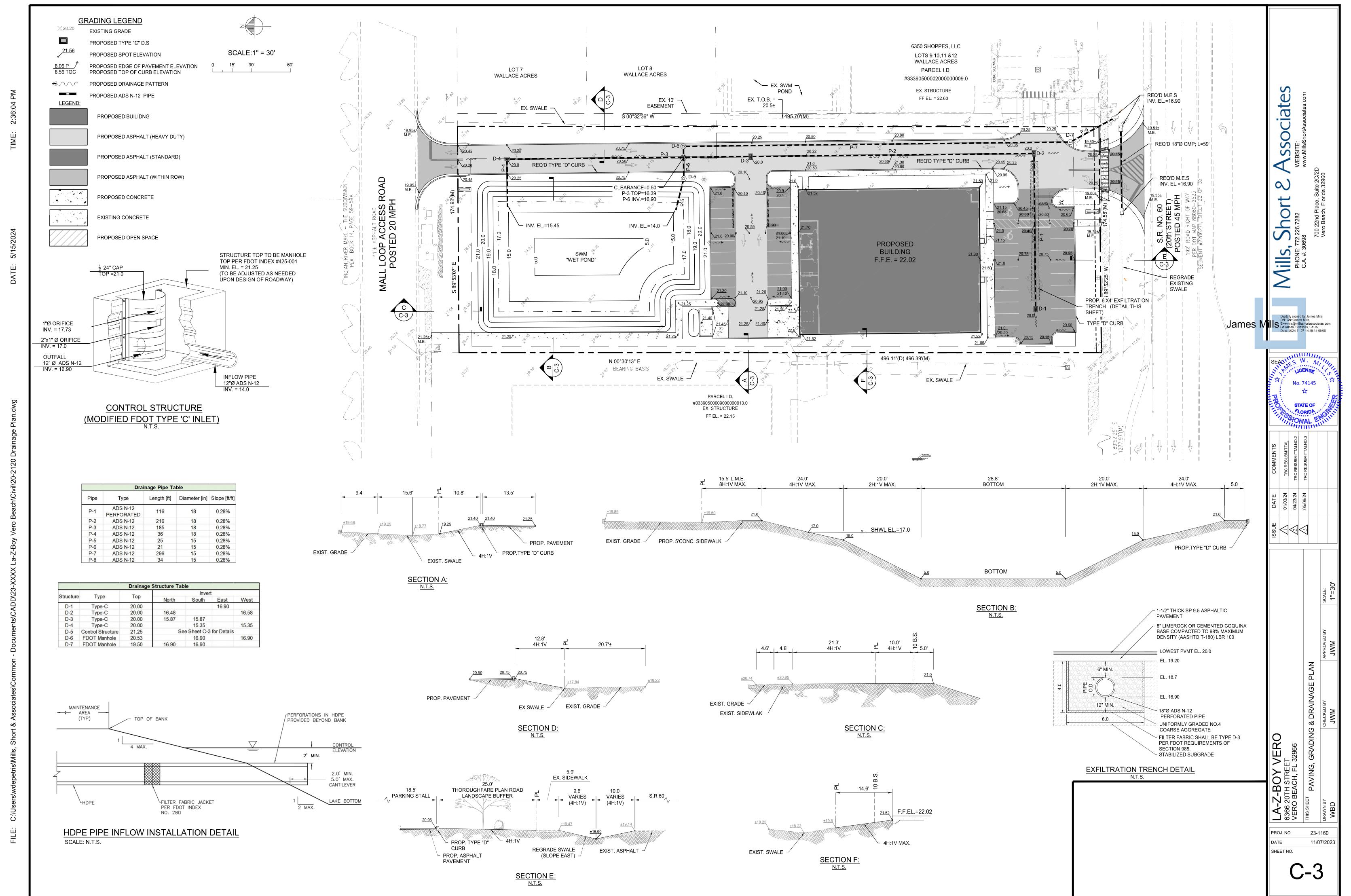
8. IT IS THE PROJECTS RESPONSIBILITY TO COORDINATE REMOVAL OR RELOCATION OF ANY ITEM ON SITE OR OFF-SITE THAT RELATES TO TRAFFIC (EX. FIBER/POWER BOXES, STREET LIGHTING. SIGNAGE, ETC.)

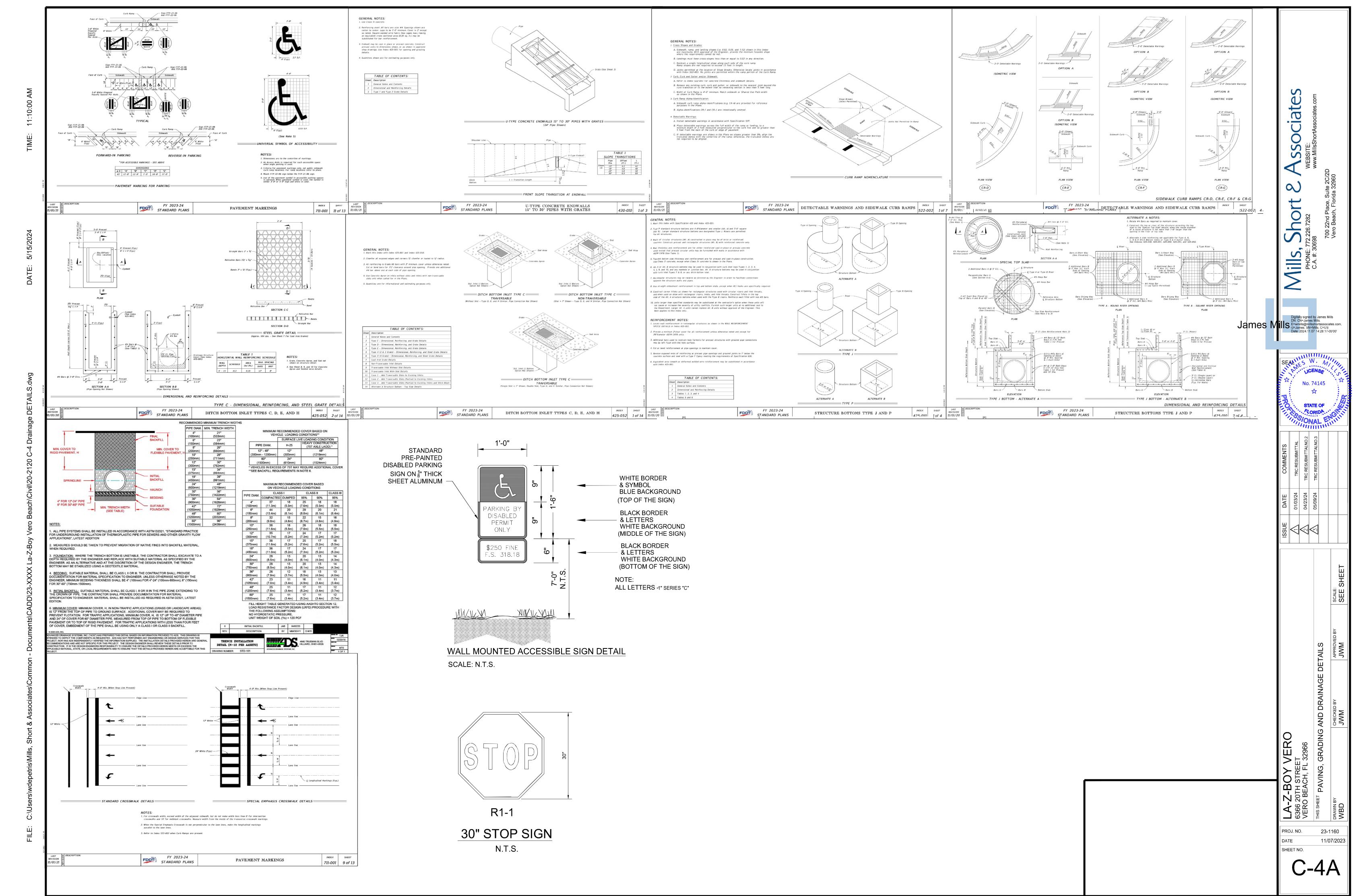
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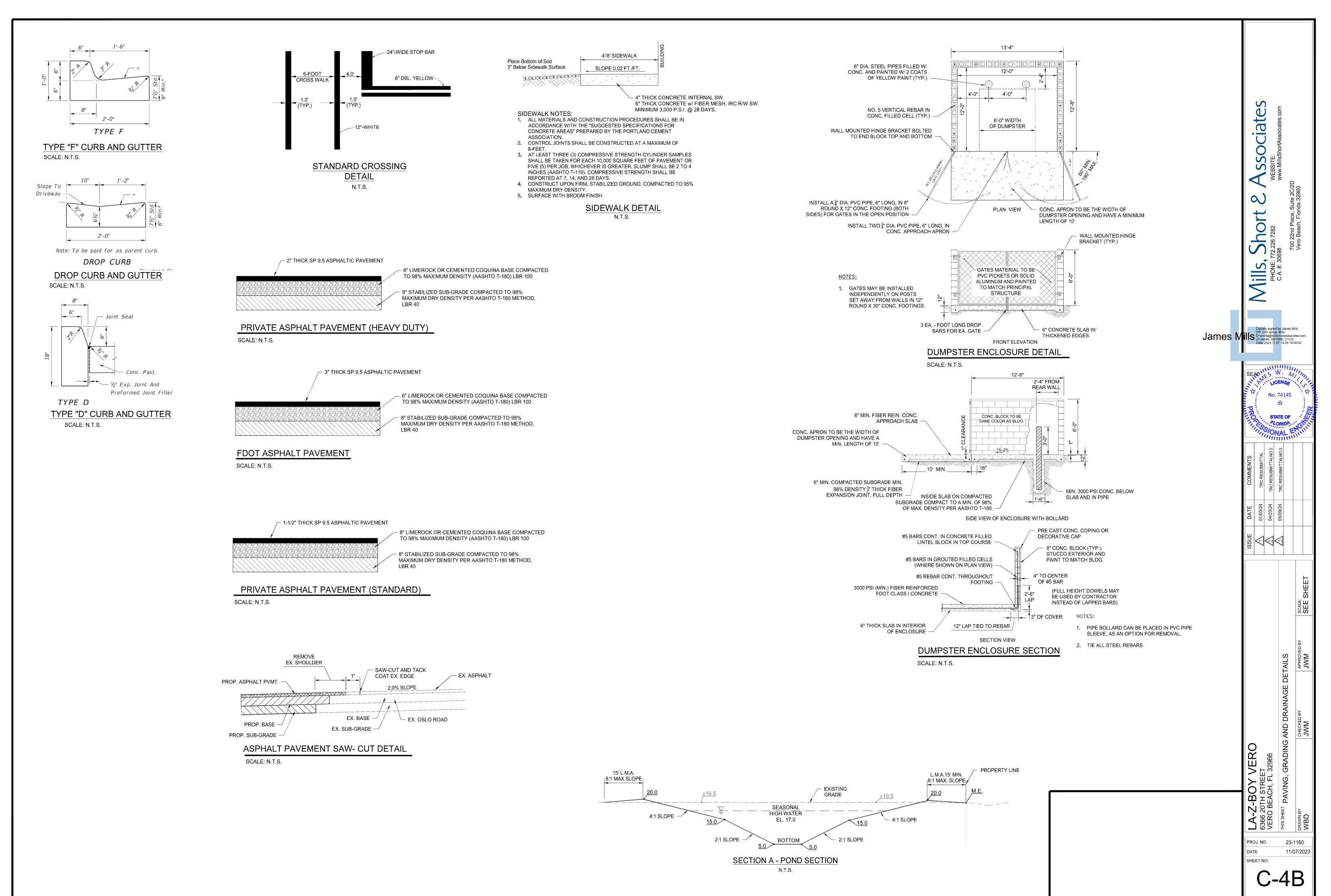
HOHO!

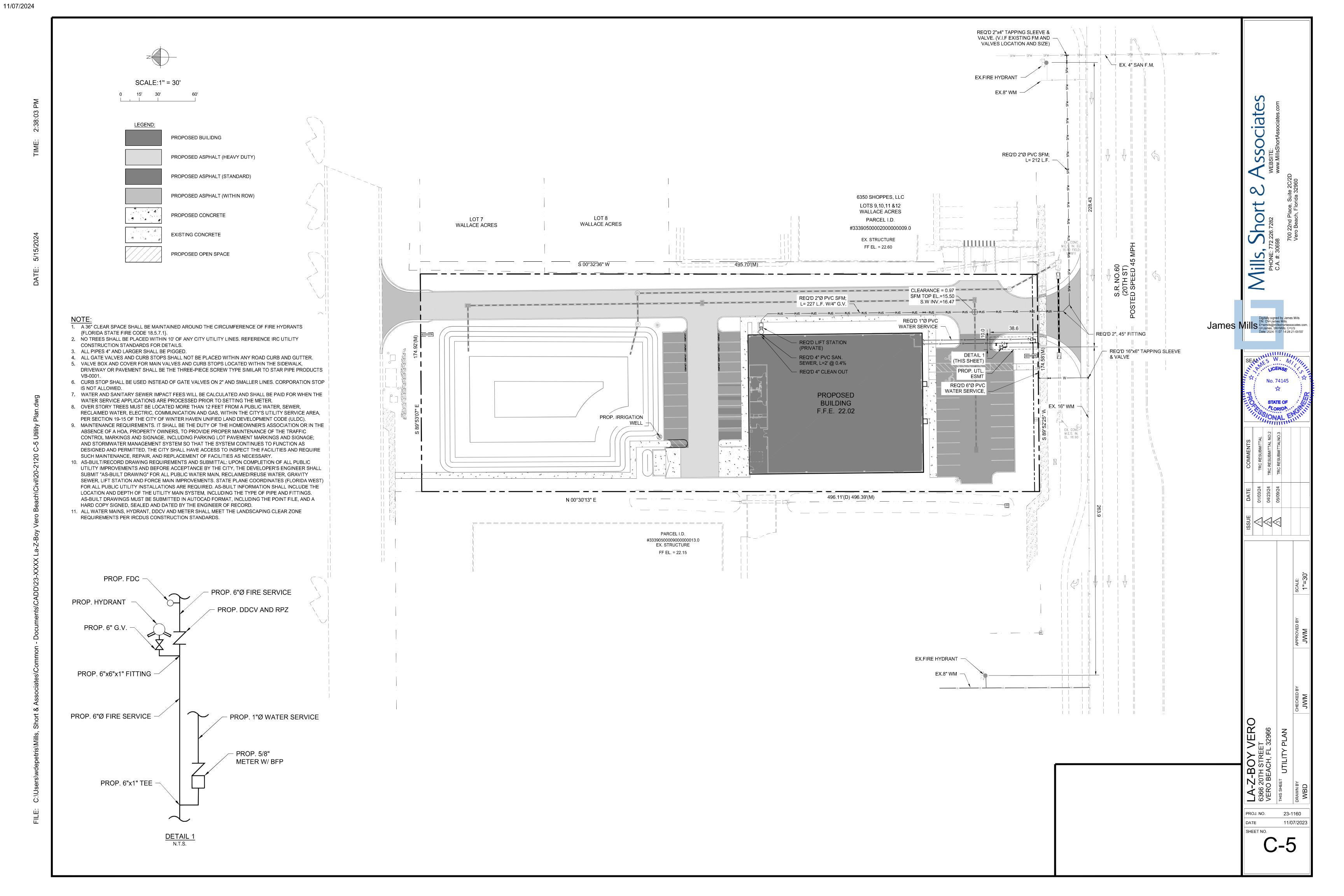
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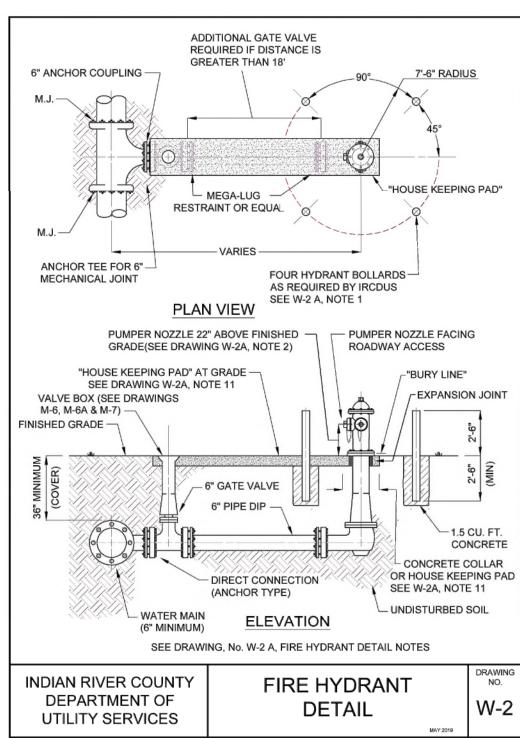
23-1160 SHEET NO.











A CORPORATION STOP SHALL BE INSTALLED WITH A LENGTH OF 1" Ø

-1"Ø PE TUBING

- CORPORATION STOP

WHEN ABANDONING

SAMPLE POINT

BRASS DOUBLE STRAP

TAPPING SADDLE

COPPER TUBING EXTENDING ABOVE THE FINISHED GRADE. THE

TUBING SHALL BE INSTALLED WITH A 180° DOWNTURN BEND.

ELEVATION

TEMPORARY SAMPLING POINT SHALL BE CONSTRUCTED USING A SERVICE LINE WHEN POSSIBLE.

CERTIFICATION OF PRESSURE TEST, TWO CONSECUTIVE DAYS OF SUCCESSFUL BACTERIOLOGICAL

TESTS, AND CLEARANCE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS

TEMPORARY SAMPLING

POINT (BACTERIOLOGICAL) W-8

REQUIRED BEFORE THE SAMPLE TAP CAN BE ABANDONED.
WHEN SAMPLING IS COMPLETE, TUBING SHALL BE REMOVED AND CORPORATION STOP PLUGGED.

SCHEDULE 40 PVC OR OTHER MATERIALS CAN BE USED, AS APPROVED BY IRCDUS.

NO SAMPLE POINTS SHALL BE CONSTRUCTED ON FIRE HYDRANTS.

USE A SERVICE FOR A SAMPLE POINT WHEN/WHERE POSSIBLE.

1" BALL VALVE-

OR CURB STOP

FINISHED GRADE -

WATER MAIN OR SERVICE-

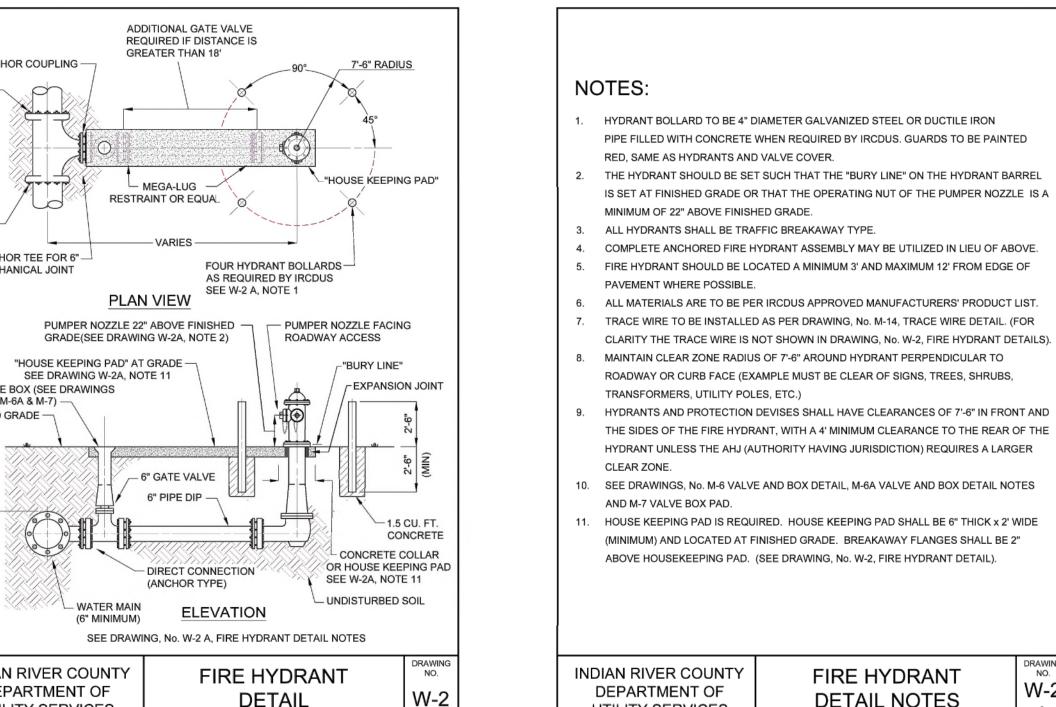
(SEE NOTE 5)

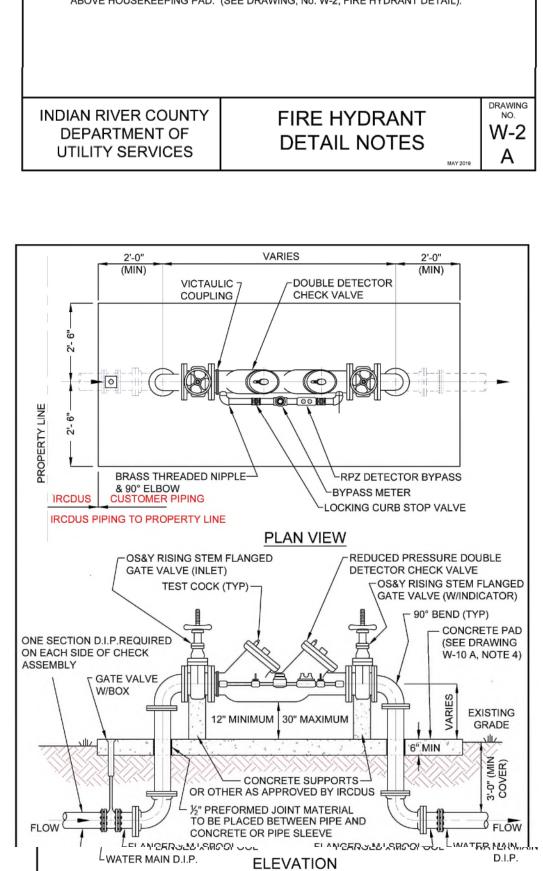
INDIAN RIVER COUNTY

DEPARTMENT OF

UTILITY SERVICES

NOTES





SEE DRAWING W-10A DOUBLE-DETECTOR CHECK VALVE ASSEMBLY NOTES

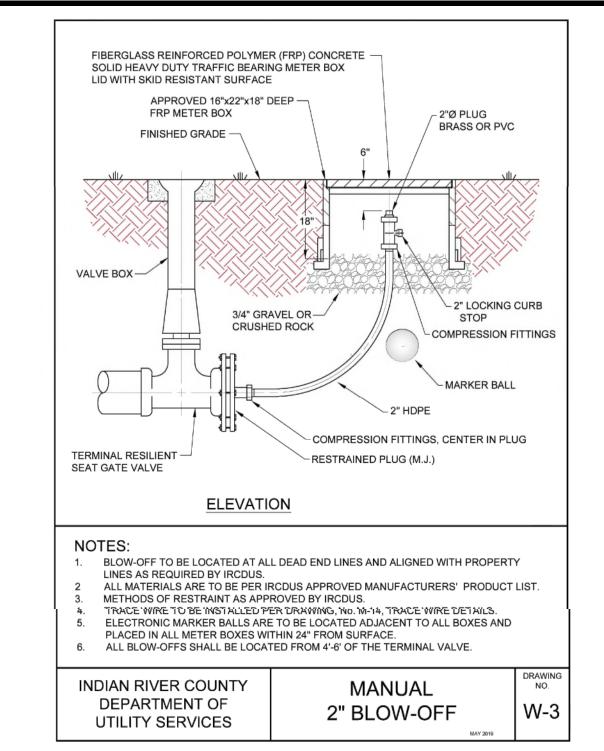
DOUBLE-DETECTOR

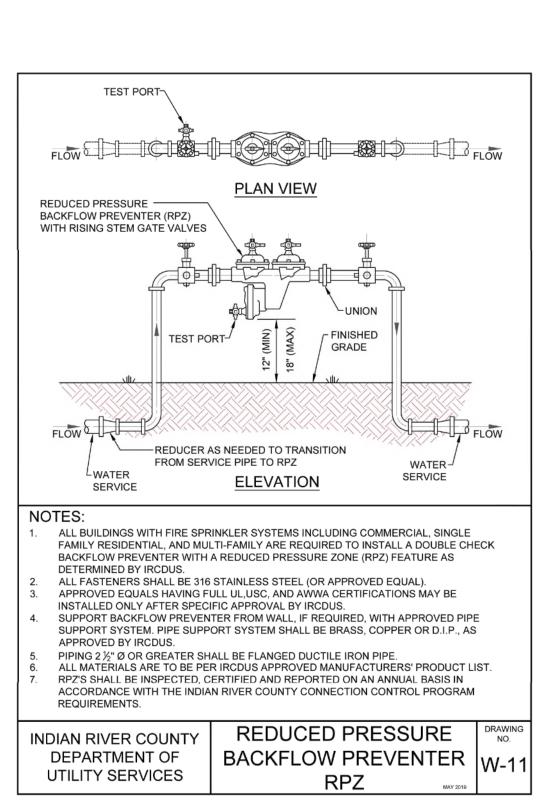
CHECK VALVE ASSEMBLY W-10

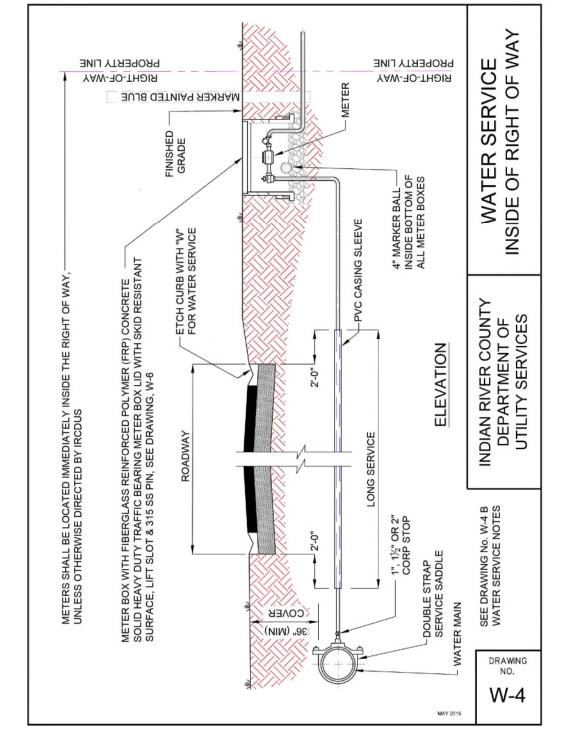
INDIAN RIVER COUNTY

DEPARTMENT OF

UTILITY SERVICES







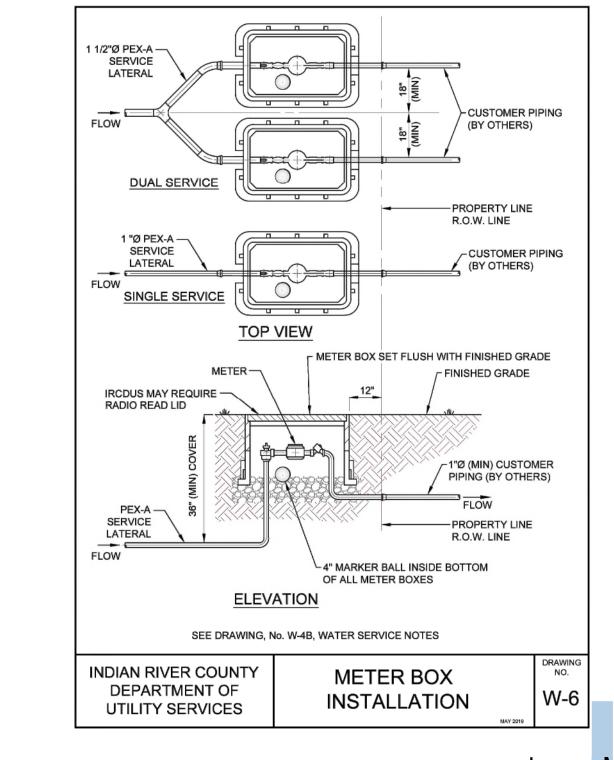
36" (MIN)

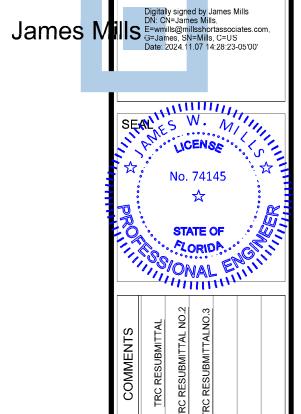
DRAWING NO.

W-13

MAY 2019

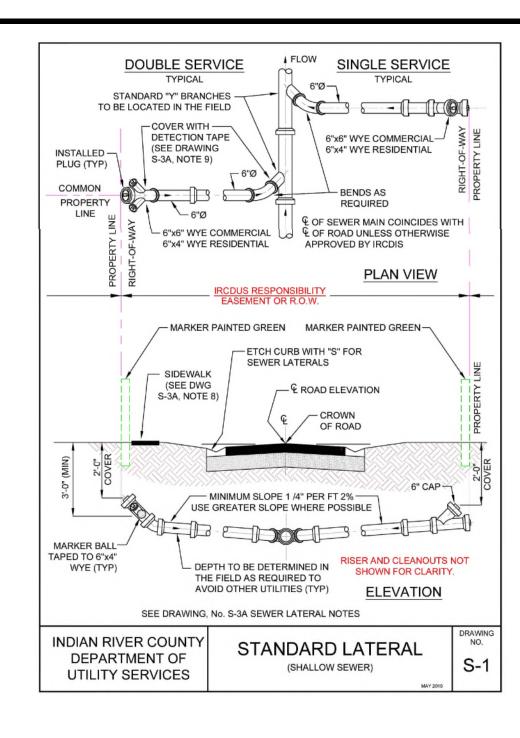
12" (MIN)

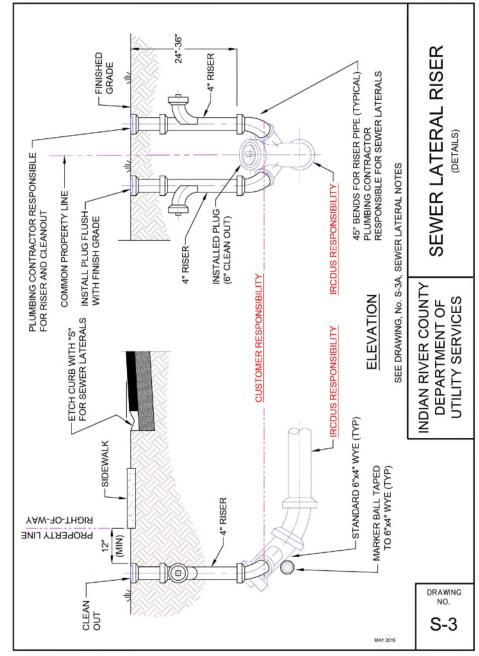




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PROJ NO 23-1160 11/07/2023 DATE SHEET NO.





OBSTRUCTION-

SEE NOTE 1-

THE WATER MAIN AND THE OTHER PIPELINE.

MAXIMUM JOINT DEFLECTION.

IRRIGATION MAINS, ETC.)

INDIAN RIVER COUNTY

DEPARTMENT OF

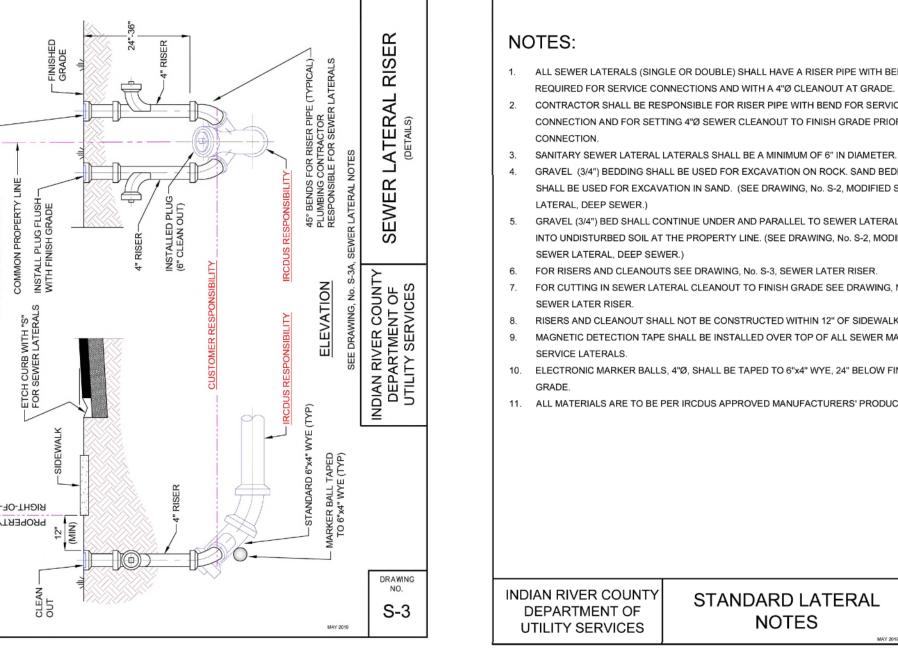
UTILITY SERVICES

DEFLECTING THE PIPE AS SHOWN ABOVE

SEE NOTE 3 FOR -

ACCEPTABLE

DEFLECTION



GRADE

SLOPE TO 36"

CENTER A FULL LENGTH OF PIPE

NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR

TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN, OR PIPELINE

PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE IF 36" MINIMUM

PROPOSED GRAVITY, VACUUM TYPE SANITARY SEWER, STORM SEWER, OR PRESSURE

CONVEYING RECLAIMED WATER SHALL BE LAID SO THE WATER MAIN IS AT LEAST 6", AND

PREFERABLY 12", ABOVE OR A MINIMUM OF 12 INCHES BELOW THE OTHER PIPELINE. IT IS

COVER CAN BE MAINTAINED ABOVE THE WATER MAIN AND 6" OF SEPARATION BETWEEN

AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED

ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE FAR AS

POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE

PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE

STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT

CONSTRUCT STANDARD CROSSING NOT TO EXCEED 75% OF THE MANUFACTURER'S

OTHER METHODS OF RESTRAINT MAY BE USED AS APPROVED BY IRCDUS IN LIEU OF

ANY PERMANENT ABOVE GROUND STRUCTURES (I.E. WALLS, TREES, TRANSFORMER

ANY UNDERGROUND UTILITIES (I.E. GAS MAINS, TELEPHONE LINES, CABLE LINES,

IRCDUS MAY REQUIRE AIR RELEASE VALVES ON EACH SIDE OF A UTILITY CROSSING

PADS, ETC.) AND A MINIMUM HORIZONTAL SEPARATION EQUAL TO FOUR (4) FEET FROM

SEPARATION EQUAL TO THE DEPTH OF THE PIPE PLUS THE DIAMETER OF THE PIPE FROM

UTILITY CROSSINGS

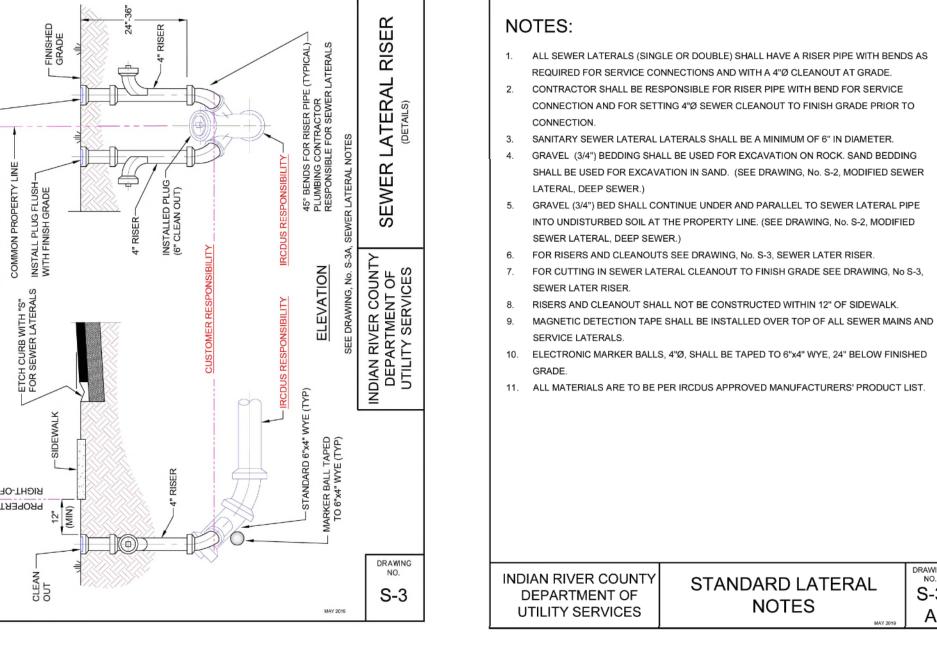
TRACER WIRE SHALL BE INSTALLED ABOVE THE PIPE. (SEE DRAWING, No. M-14)

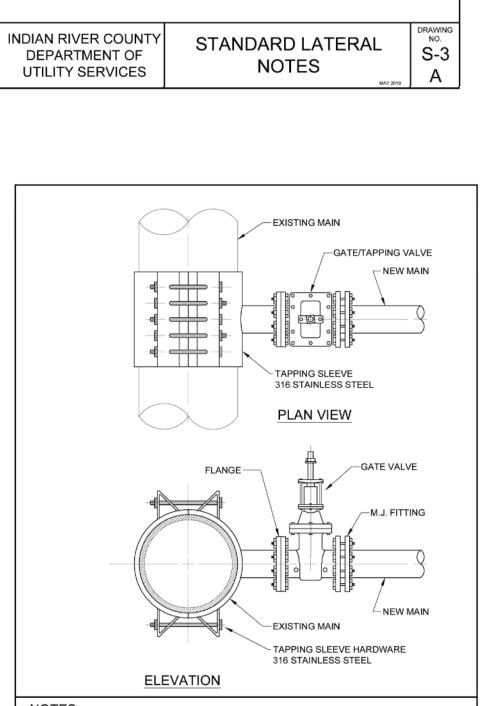
ALL WATER AND SEWER PIPING SHALL BE LOCATED A MINIMUM HORIZONTAL

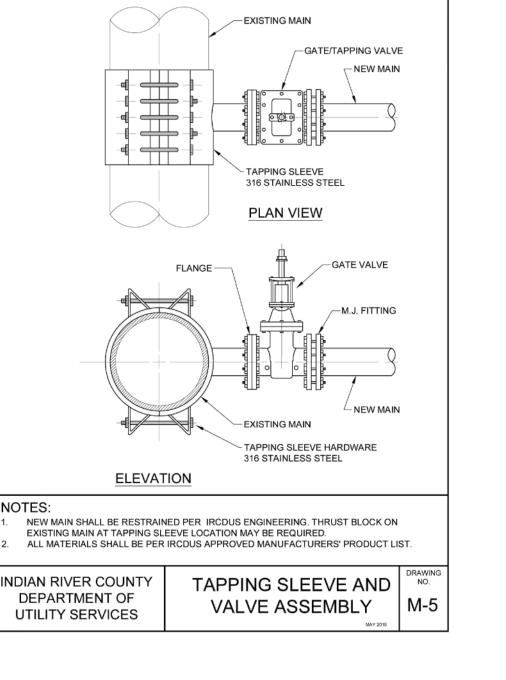
LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS,

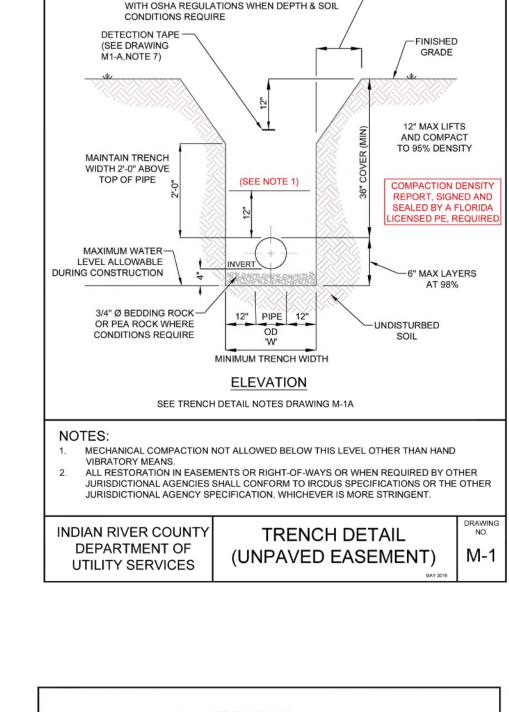
FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS. STORM SEWERS.

WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.

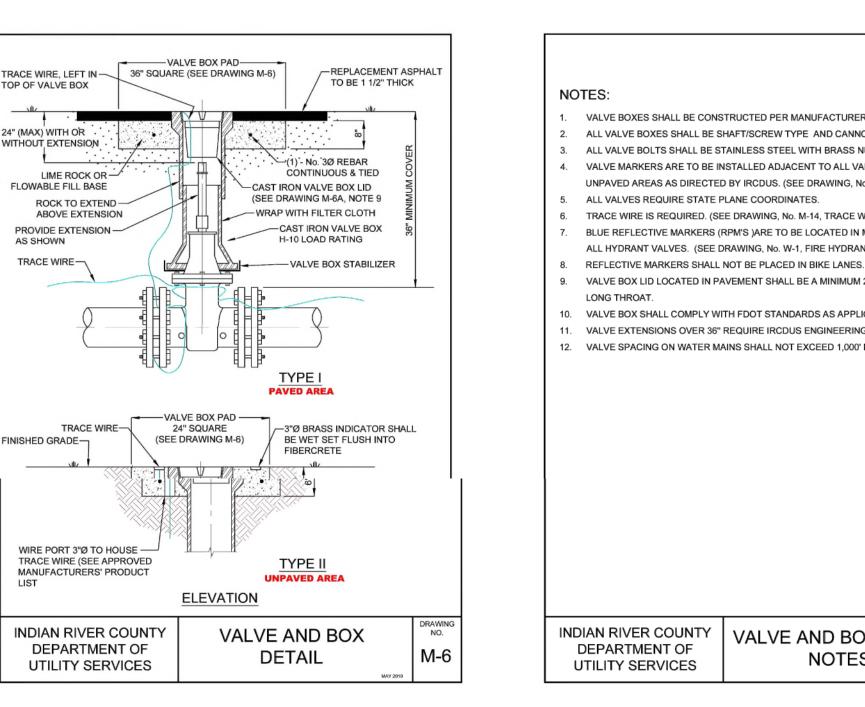








PROVIDE SLOPED SIDE WALLS IN ACCORDANCE -



NOTES:

REGULATIONS

VIBRATORY MEANS.

INDIAN RIVER COUNTY

DEPARTMENT OF

UTILITY SERVICES

COMPACTION REPORTS REQUIRED.

WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD

SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA

COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR

MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND

2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW

"CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL

ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER

JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDUS SPECIFICATIONS OR THE OTHER

TRENCH DETAIL

BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.

ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.

EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED

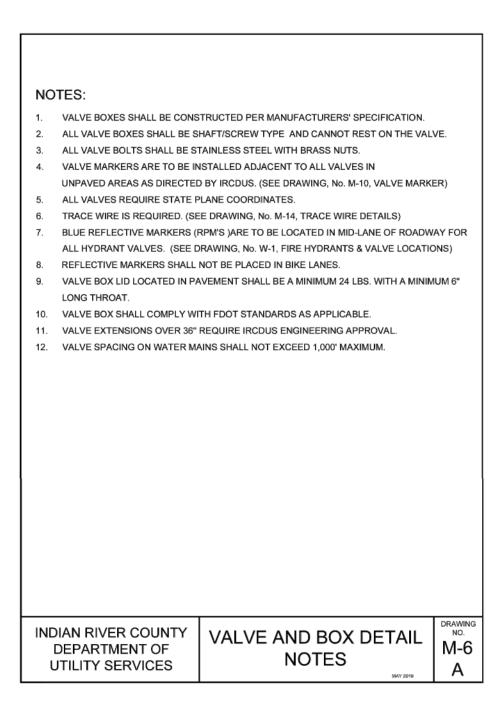
BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW",

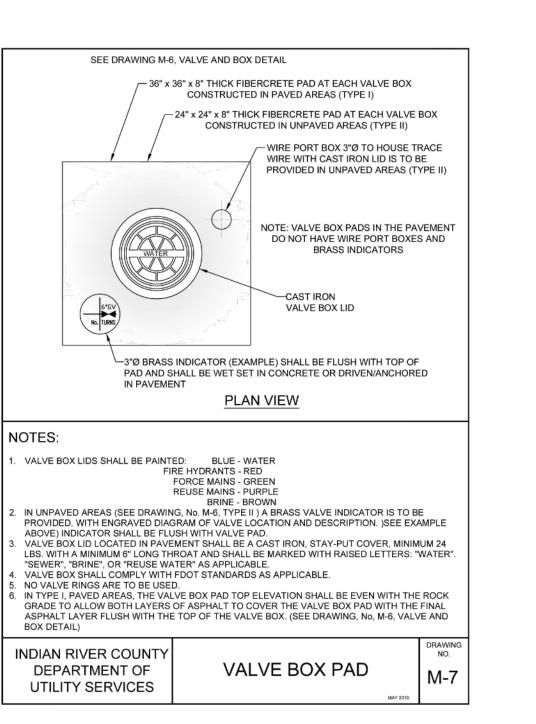
JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.

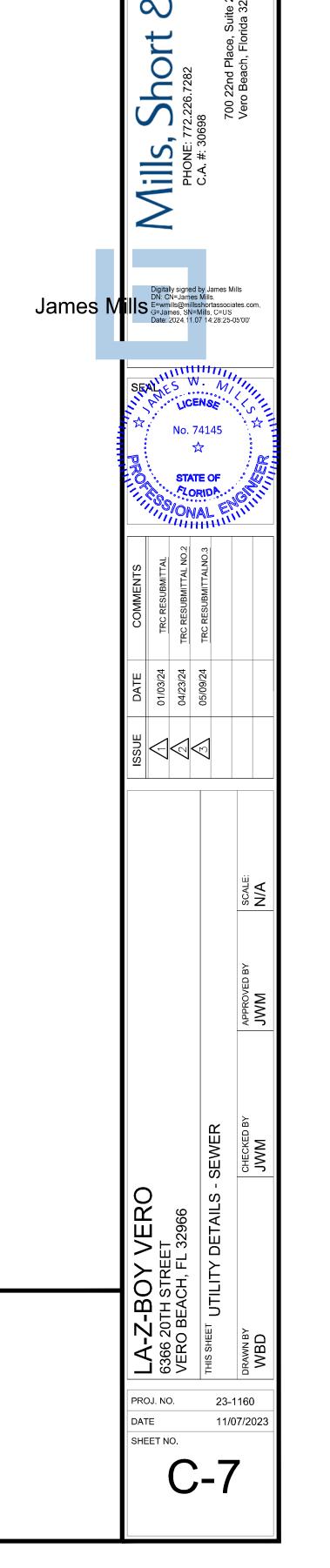
MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

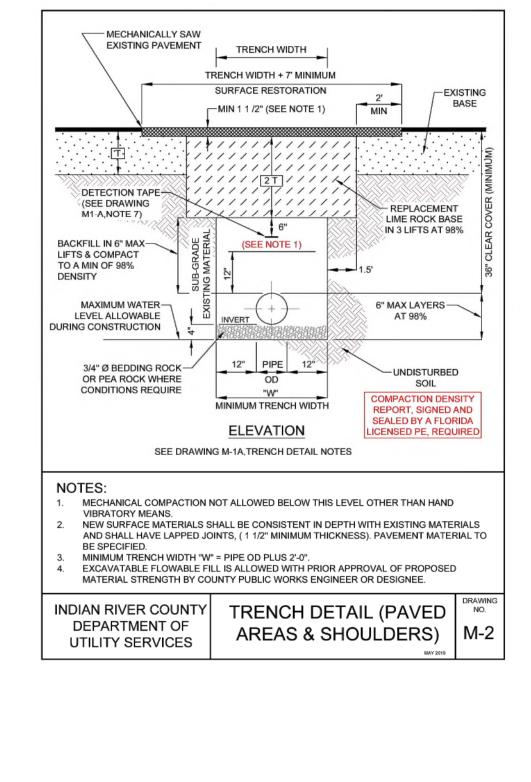
OF CONSTRUCTION TO IRCDUS FOR APPROVAL.

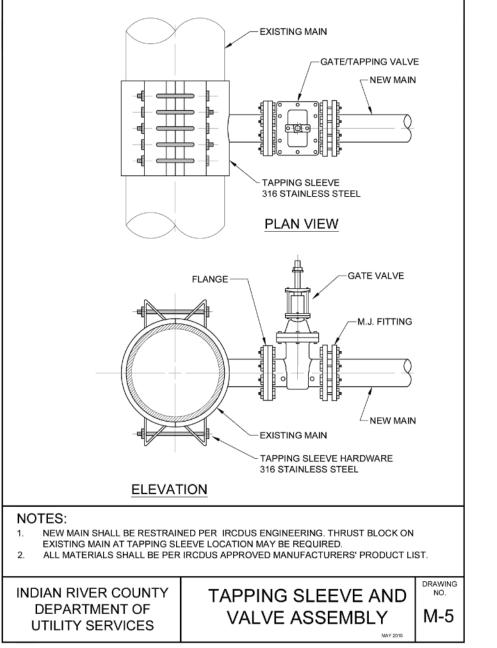
MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".

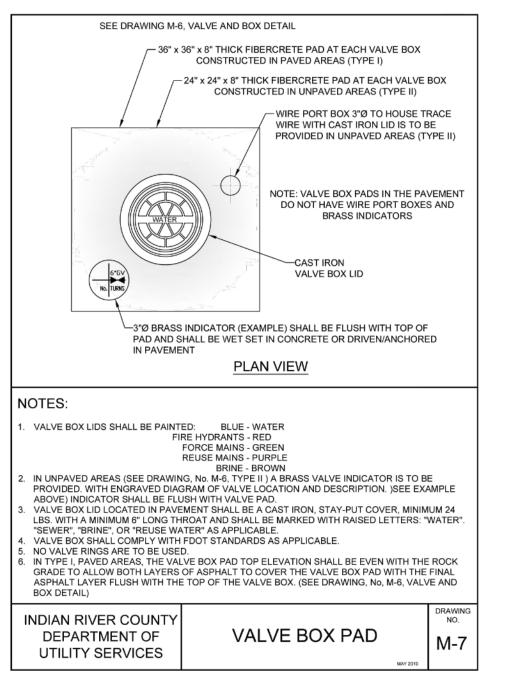












____ 2" BALL VALVE (3 EA.)

-2" CHECK VALVE

(2 EA.)

L2" DISCHARGE CONNECTION

Furnish two ABS heavy duty submersible grinder pumps. Pumps shall be connected to the discharge piping when lowered onto the discharge connection by one 2" dia. Sch40 304SS rail. Pump shall be centrifugal type with rotating cutter mounted on the pump shaft. The stationary cutter shall be mounted in the adjustable bottom plate. Shreading shall occur outside of volute to avoid clogging. The cutter shall be super abrasive material and hardness of 58-62 Rockwell C. Each pump shall be equiped with two seals. The lower shall be mechanical type with silicon carbide faces. The oil chamber shall be fitted with a moisture probe extending from the bottom of the motor housing into the oil chamber. The pump motor shall be air filled and have class "F" insulated moisture resistant windings. Bimetallic thermal switches shall be imbedded into each phase of the winding to sense high temperature.

Float holder and upper guide rail brackets shall be made with 316SS only.

The fiberglass basin shall be manufactured from commercial grade polyster resin. The complete wet well shall have a dynamic loading of 16,000ft-lbs and shall not deflect vertically downward more than a 1/4" at the point of load application when loaded to

The fiberglass valve vault shall be 24"x36"x30" deep and meet the requirements for incindental traffic H-10 loading as established by ASSHTO. The compression strength shall be at least 11,000psi.

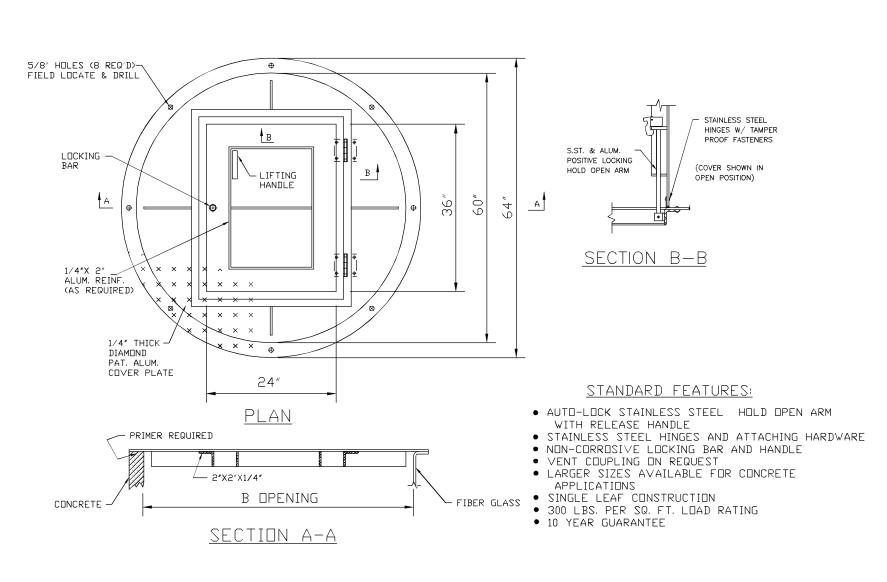
Float switches shall be UL listed type "S-RotoFloat" manufactured by Anchor Scientific, Inc. with 30 feet of STO PVC cable.

Pump Model: <u>S30/2D 60Hz</u>	Impeller Dia: <u>143 mm</u>
No. Pumps: <u>TWO (2)</u>	Motor HP: 4 <u>.02 HP.</u>
Discharge: <u>2"</u>	RPM: <u>3340</u>
Design Flow: <u>30 GPM.</u>	Voltage: <u>208/230</u>
Design TDH: 105 FEET.	Phase: <u>1 PHASE</u>

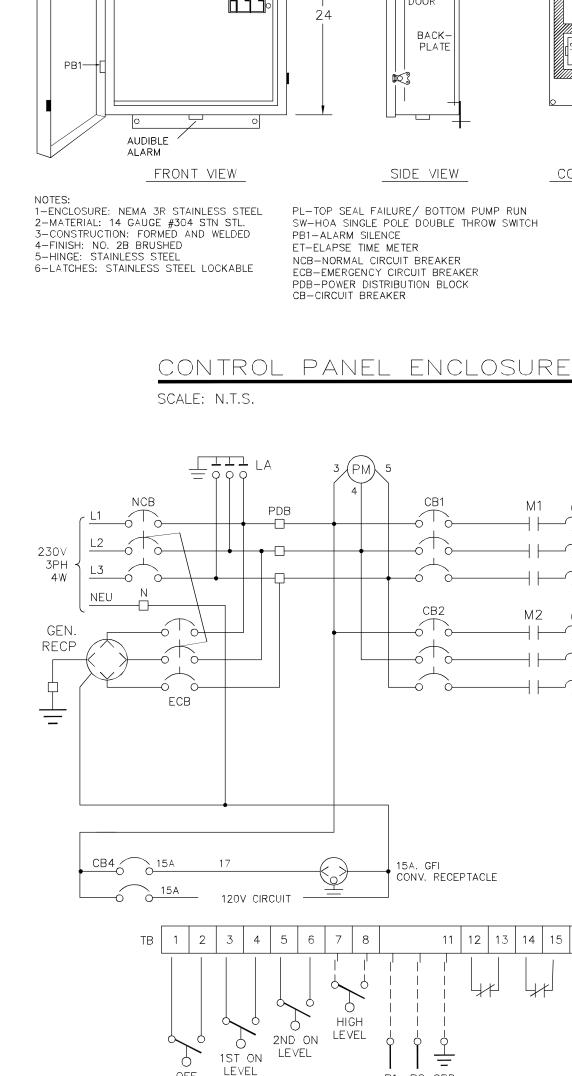
SULZER Pump performance curves PIRANHA S D 60 HZ 82.32 fb/fb 1,082E-5 fb/g ISO9908.2012,HI 11.6/14.6c10kW 3454 rpm 2024-04-25
Flow Head Shaft power Power input Rated power P2 Hydraulic afficiency NPSH 30.83 US g.p.m 106 fb 3.21 hp 4.03 hp 4.02 hp 26.4 %

PUMP CURVE DATA

SCALE: N.T.S.



ACCESS COVER DETAILS SCALE: N.T.S.



SCALE: N.T.S.

GEN RECP INNER DOOR

BACK-PLATE

SIDE VIEW

CONTROL BACKPLATE

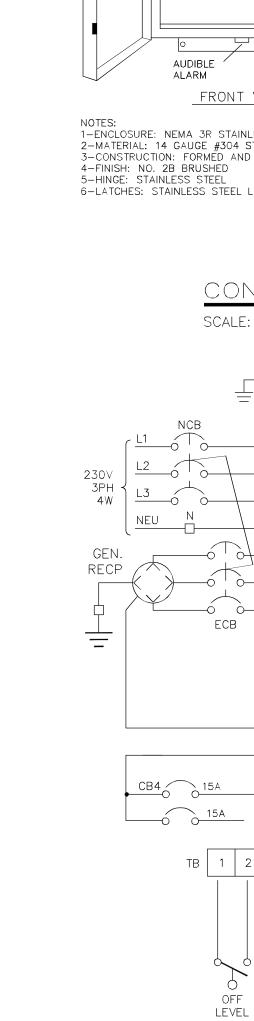
LA-LIGHTING ARRESTOR
PM-PHASE MONITOR
ALT-ALTERNATOR
SF-SEAL FAIL RELAY
AL-ALARM LIGHT
TB-TERMINAL BLOCK
GRD-GROUND TERMINAL

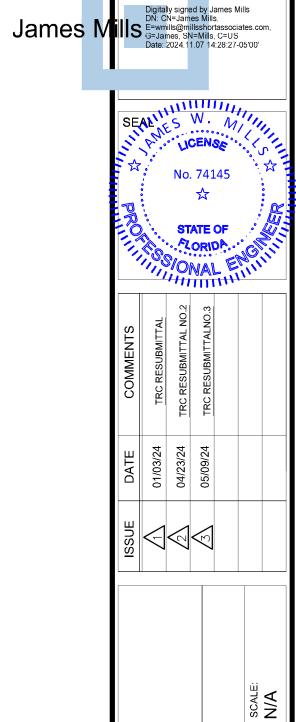
CONTROL PANEL WIRING DIAGRAM

P1 P2 GRD

SEAL FAILURE CIRCUIT

11 | 12 | 13 | 14 | 15 | 16



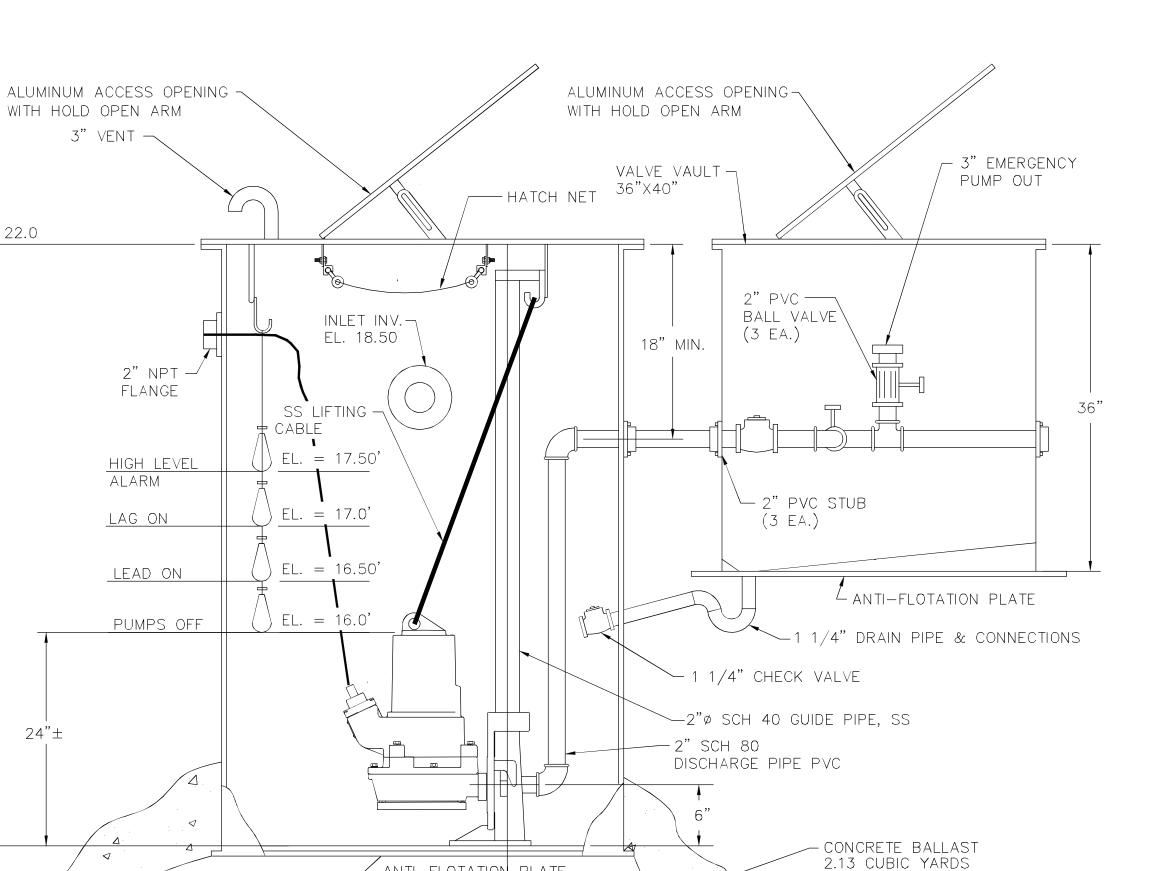


2

Short

Mills, PHONE: 7 C.A. #: 3C

PROJ NO 11/07/202 DATE SHEET NO.



∠ ANTI-FLOTATION PLATE

3'WET WELL — ELEVATION

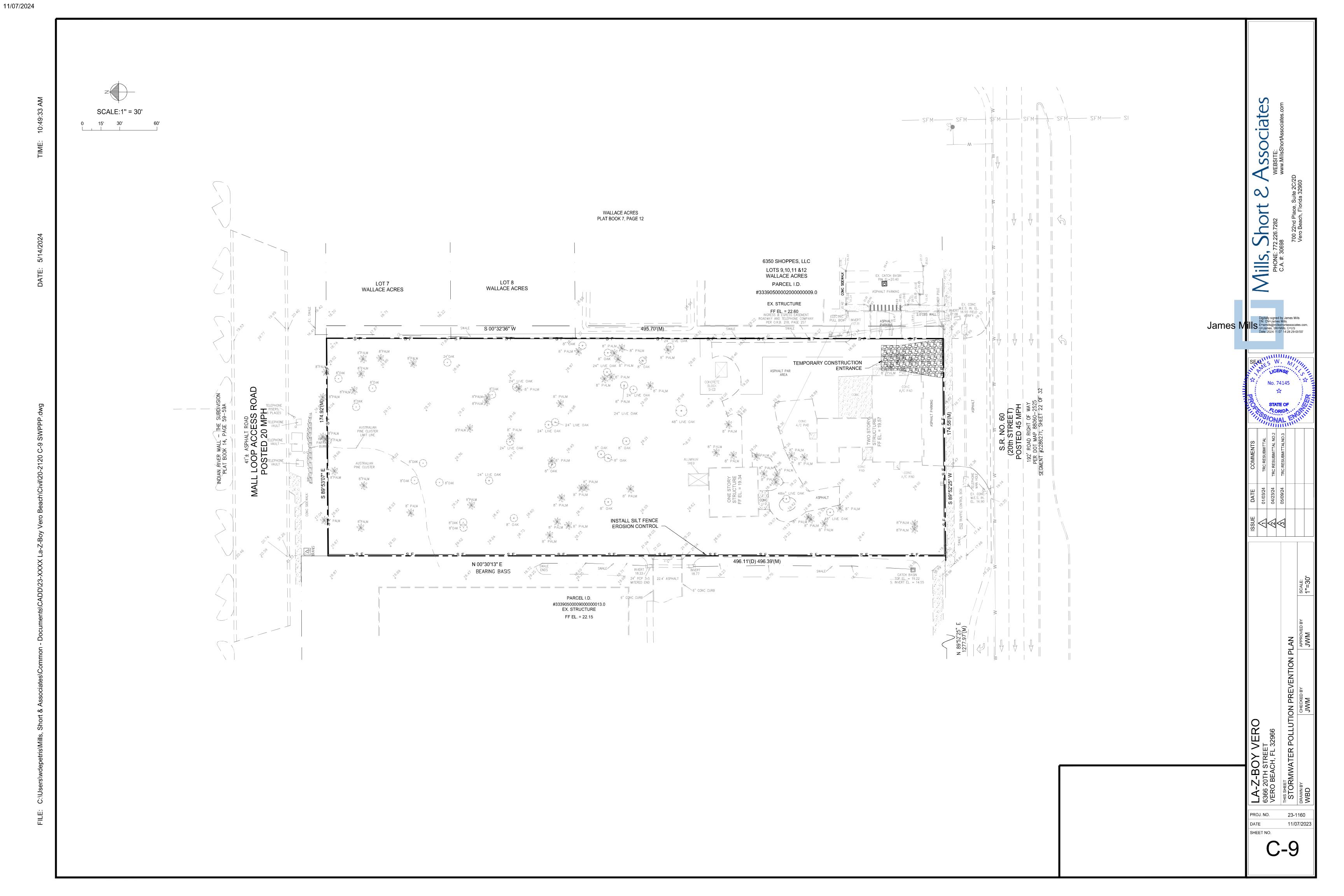
C OF PUMP AND SUMP

┌─ (6) 3/8¢ BOLTS

11.63"

3' WET WELL - PLAN

SS CABLE RACK -7



EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE

2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT

3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.

4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED

6. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.

OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL. 8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE

9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.

CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY

11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.

12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.

14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NUMBERS 101, 102 AND 103 OF F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS AND COUNTY PERMITS.

15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.

16. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.

17. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S

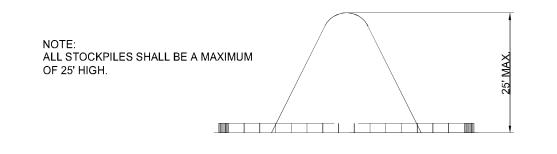
18. NOI TO BE POSTED ON SITE.

A - DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS. B - CONTRACTOR MUST HAVE A TRANSFERABLE SJRWMD CONSUMPTIVE USE

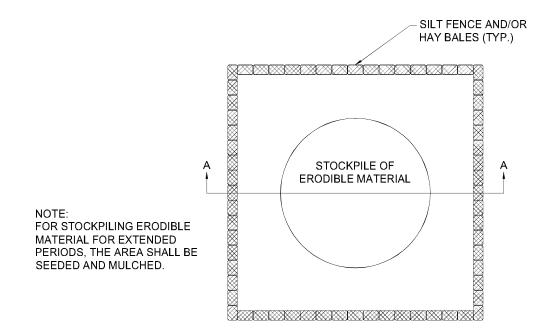
PERMIT KNOWN AS A "NOTICED GENERAL PERMIT FOR SHORT TERM CONSTRUCTION DE-WATERING".

C - NO HYDRAULIC PUMPS MAY BE USED FOR DEWATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA.

D - NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER.



SECTION A-A



SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL-N.T.S

