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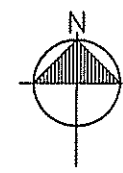
# VYBE INVESTMENTS VERO BEACH DEVELOPMENT

1801 U.S. HIGHWAY 1  
CODE COMPLIANCE SUBMITTAL  
(MODIFICATION OF PARCEL 3 ONLY)  
CITY OF VERO BEACH, FLORIDA  
OCTOBER, 2023

**JURISDICTIONAL PERMITS:**  
CITY OF VERO BEACH PLATTED-OVER SITE PLAN  
CITY OF VERO BEACH LAND CLEARING PERMIT  
CITY OF VERO BEACH TREE REMOVAL PERMIT  
CITY OF VERO BEACH RIGHT-OF-WAY PERMIT  
ST. JOHNS WATER MANAGEMENT DISTRICT ERP  
FDEP NOI



**SITE LOCATION MAP**  
SCALE: N.T.S

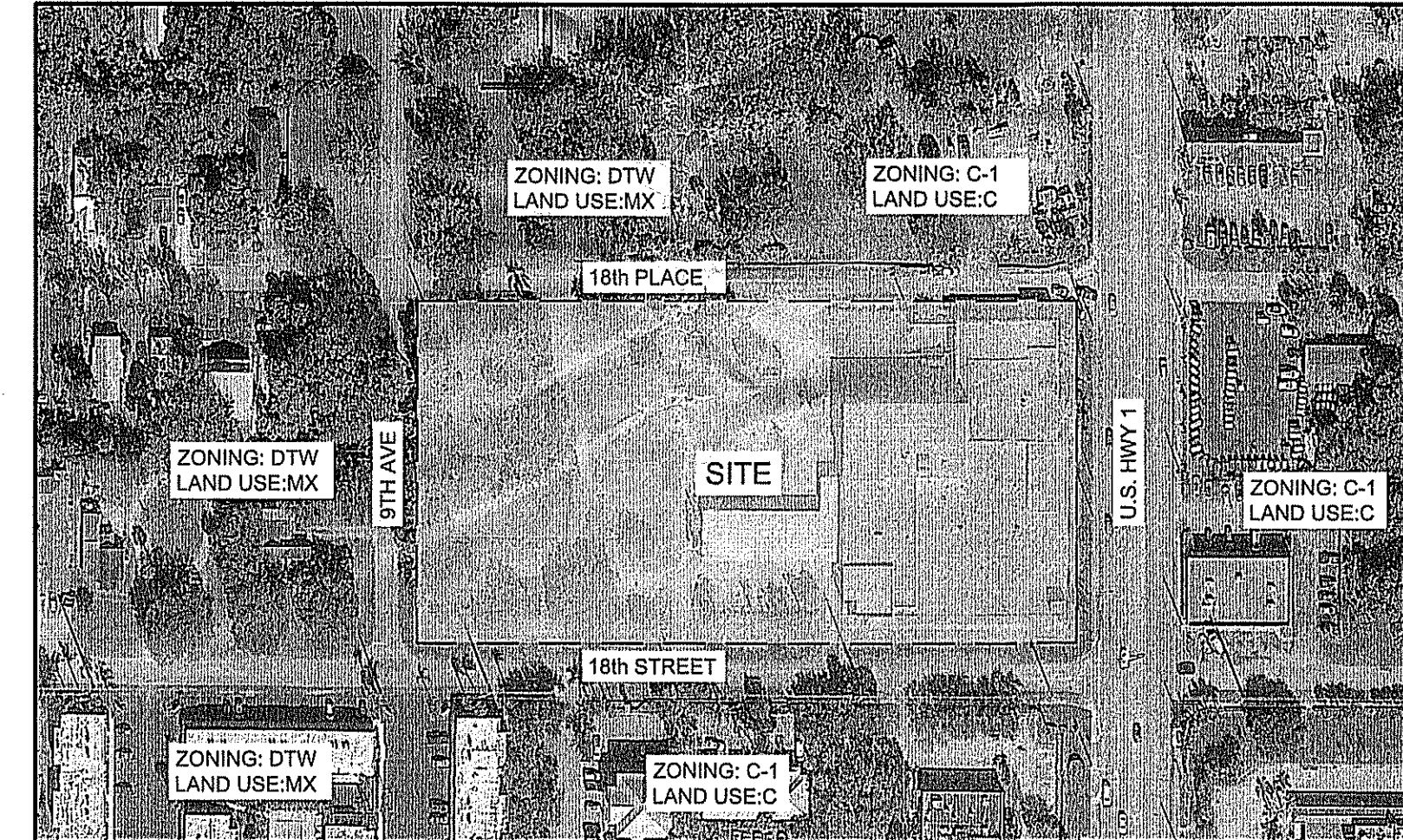


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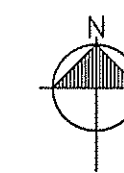
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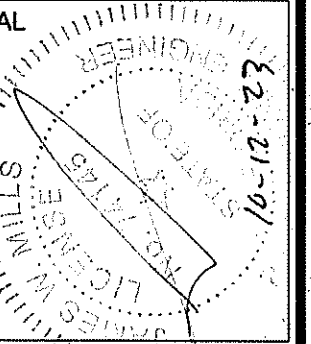


**SITE VICINITY MAP**  
SCALE: N.T.S



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ISSUE	DATE	COMMENTS
A	10.11.23	FIRE COMMENTS

**VYBE INVESTMENT  
VERO BEACH DEVELOPMENT**  
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960  
THIS SHEET TITLE SHEET  
DRAWN BY: WBD  
CHECKED BY: JWM  
APPROVED BY: JWM  
SCALE: N/A

PROJ. NO. 21-3530  
DATE 7/12/22  
SHEET NO.

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, INDEX 711-001.
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 WITH CLEAN SANDY SOIL.
5. 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 RW PERMIT PRIOR TO COMMENCING WORK WITHIN FDOT RIGHT-OF-WAYS.
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.
15. 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 CONSTRUCTION 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.
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.
5. 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 & ASSOCIATES PRIOR TO CONSTRUCTION.
6. 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 DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING OR PLANTING.
7. ALL DISTURBED AREAS WITH SLOPES UP TO 6:1 SHALL BE SEEDDED 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.
9. THE TABULATED VALUES ARE RECOMMENDED MINIMUM DIMENSIONS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO 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 FOOT 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 (SRJWMD), 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 COUNTY REGULATIONS.
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 DRAWINGS.
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 GOVERN.
26. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDDED 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 SEEDDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
27. 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.

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.
I. 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.
J. 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 ITEMS.

TABLE 1.0 - UTILITY SEPARATION

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314. Table with columns: Other Pipe, Horizontal Separation, Crossings (1), Joint Spacing @ Crossings (Full Joint Centered). Rows include Storm Sewer, Vacuum Sanitary Sewer, Gravity or Pressure Sanitary Sewer, and On-Site Sewage Treatment & Disposal System.

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 NOTED.
5. ALL PVC FORCE MAIN SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
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 C800 OR M25 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.

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 INVERT.
6. MINIMUM AS BUILT 8" PVC SEWER LINE SLOPE WILL BE 0.40% MINIMUM SLOPE OR WILL BE RELIED 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 PIPE IS MANUFACTURED.
C. PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

Mills, Short & Associates

700 22nd Place, Suite 202D Vero Beach, Florida 32960
PHONE: 772.226.7282 C.A. #: 30698 www.MillsShortAssociates.com WEBSITE:

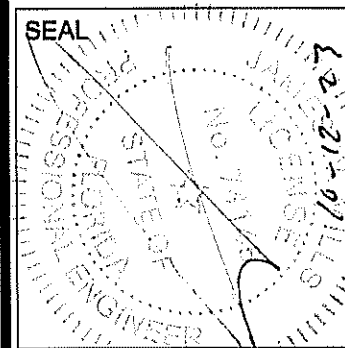


Table with columns: ISSUE, DATE, COMMENTS. Row 1: ISSUE A, DATE 10.11.23, COMMENTS FIRE COMMENTS.

SCALE: N/A

APPROVED BY: JWM

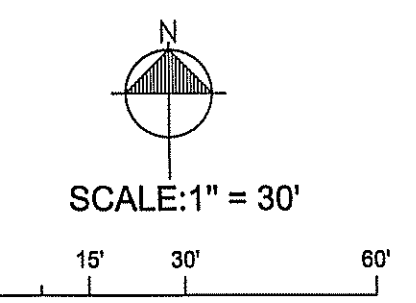
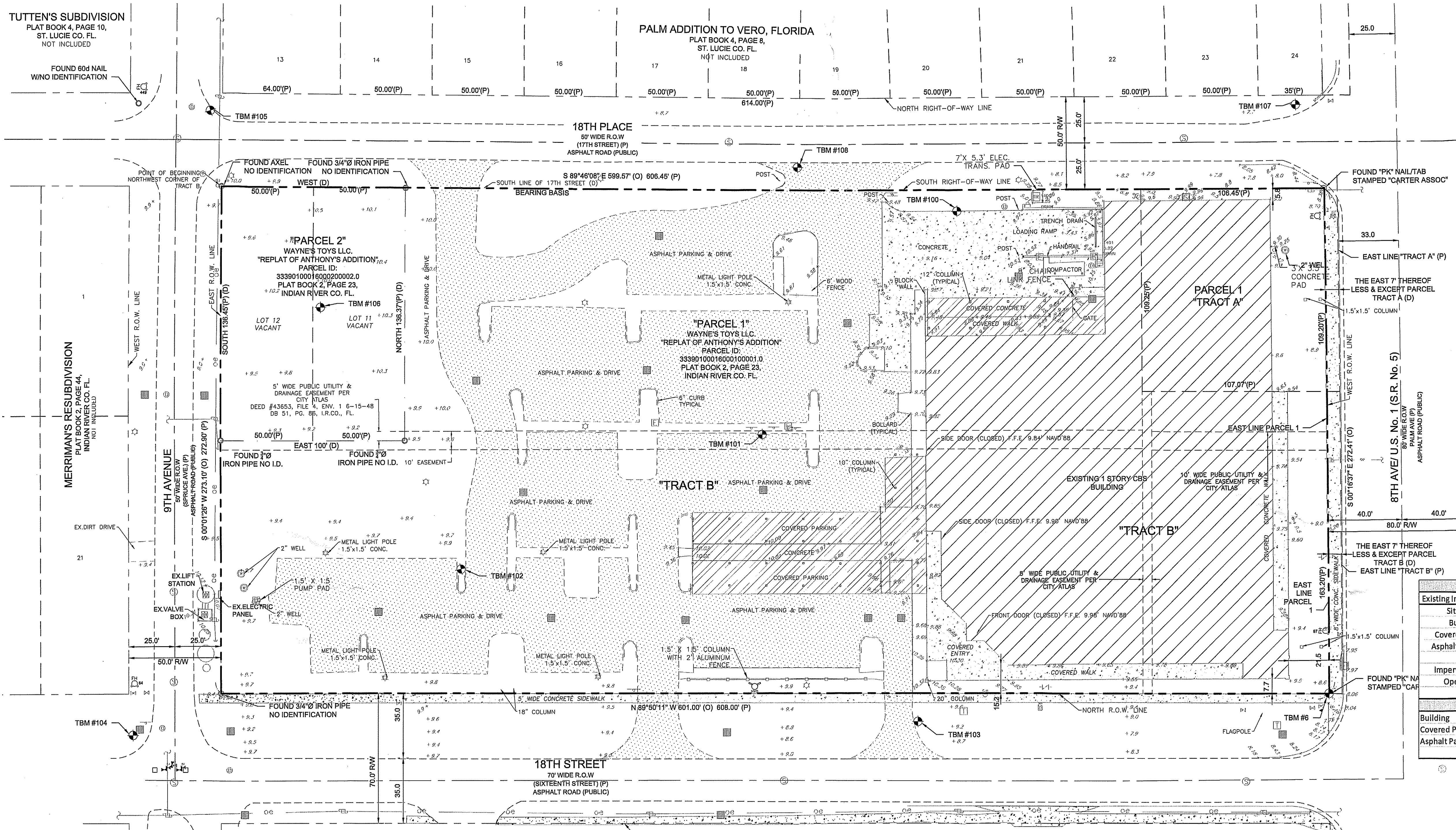
CHECKED BY: JWM

DRAWN BY: WBD

PROJECT NO. 21-3530
DATE 7/12/22
SHEET NO.

VYBE INVESTMENT VERO BEACH DEVELOPMENT
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960
GENERAL NOTES
G-2





**SURVEYOR'S GENERAL NOTES AND REPORT:**

- UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
- THE LAST DAY OF FIELD WORK PERFORMED FOR THE INITIAL SURVEY EFFORT WAS DECEMBER 23, 2021. SUBSEQUENT ADDITIONS, DELETIONS AND/OR UPDATES, IF ANY, ARE REFLECTED IN THE DRAWING REVISIONS.
- BEARINGS AND OR COORDINATES SHOWN HEREON ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983, ADJUSTMENT OF 2011, AND ARE PROJECTED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (001) AND ARE REFERENCED TO THE ESTABLISHED AND MONUMENTED LINE SHOWN HEREON LABELED AS THE BEARING BASIS.
- UNLESS A DIFFERENCE IS SHOWN, OBSERVED AND RECORD DIMENSIONS ARE THE SAME. ALL DIMENSIONS SHOWN HEREON ARE DISPLAYED IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF.
- 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.
- 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 6J-17 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES. THE CERTIFICATION IN NO WAY CONSTITUTES NEITHER GUARANTEE 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 TRANSMITTED 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.
- THE LEGAL DESCRIPTION AND MATTERS OF PUBLIC RECORD WERE FURNISHED BY THE CLIENT. THIS PROPERTY(S) WAS NOT ABSTRACTED OR RESEARCHED BY THIS OFFICE FOR ENCUMBRANCES OF RECORD. THE HEREON DESCRIBED PROPERTY IS SUBJECT TO RESTRICTIONS, RESERVATIONS, EASEMENTS AND RIGHTS-OF-WAY OF RECORD, IF ANY. MATTERS OF RECORD NOT BROUGHT TO THE SURVEYOR'S ATTENTION BY THE CLIENT, THEIR AGENT OR AS DISCLOSED BY A FURNISHED TITLE INSURANCE POLICY WERE NOT INCLUDED. NO INVESTIGATION WAS MADE BY THIS OFFICE INTO THE VALIDITY OF ANY EASEMENTS CITED IN THE LEGAL DESCRIPTION OR FOR ANY ENCUMBRANCES NOT OF RECORD IN THE INFORMATION FURNISHED BY THE CLIENT. A TITLE REPORT OR COMMITMENT WAS FURNISHED THROUGH FIDELITY NATIONAL TITLE INSURANCE COMPANY BY WHITEBIRD, PLLC, ISSUING OFFICE FILE NUMBER 4248-00001, COMMITMENT DATE AUGUST 23RD, 2022 AT 5:00 PM. THIS SURVEY IS SUBJECT TO SCHEDULE B-1 EXCEPTIONS OF THE ABOVE MENTIONED TITLE REPORT OR COMMITMENT. EXCEPTIONS FROM FIDELITY NATIONAL TITLE INSURANCE COMPANY COMMITMENT AS FOLLOWS:
  - ITEMS 1-2 NOT A MATTER OF SURVEY
  - ITEM 3 ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCES AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND, AS AND IF INDICATED ON SURVEY
  - ITEM 4 NOT A MATTER OF SURVEY
  - ITEM 5 EASEMENT IN FAVOR OF CITY OF VERO BEACH, RECORDED IN DEED BOOK 61, PAGE 86, PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA, - AS NOTED ON SURVEY
  - ITEM 6 NOT A MATTER OF SURVEY
- THIS SURVEY MEETS THE REQUIREMENTS AS STATED IN THE STANDARDS OF PRACTICE (6J-17) FLORIDA ADMINISTRATIVE CODE AND MEETS THE NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) RECOMMENDED CLASSIFICATION FOR URBAN PROPERTY SURVEYS HAVING AN ACCEPTABLE RELATIVE POSITIONAL ACCURACY OF 0.07 FEET (21 MM) PLUS 50 PPM.
- "ACCURACY" IS GIVEN AT THE 95 PERCENT CONFIDENCE LEVEL.
- WITH EXCEPTION TO WHAT HAS BEEN FIELD LOCATED AND SHOWN ON THIS SURVEY, THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. SUBSURFACE AND/OR AERIAL ENCROACHMENTS, IF ANY, WERE NOT LOCATED AND/OR DEPICTED ON THIS SURVEY UNLESS NOTED OR IDENTIFIED.
- THE HEREON DESCRIBED PROPERTY APPEARS TO LIE WITHIN FLOOD ZONE X; AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) NUMBER 12081C0244, COMMUNITY NUMBER 120124, PANEL 0244, SUFFIX 1F MAP REVISED DATE DECEMBER 4, 2012, MAP INDEX DATE DECEMBER 4, 2012. NO ADDITIONAL SEARCH OF THE PUBLIC RECORDS HAS BEEN PERFORMED. THERE MAY BE ADDITIONAL MAP AMENDMENTS AFFECTING THIS PROPERTY.
- TREE LOCATIONS, IF SHOWN HEREON ARE GENERALLY ACCURATE TO 1/2 THE DIAMETER OF THAT PARTICULAR TREE. THE DIAMETER IS DISPLAYED IN INCHES MEASURED AT BREAST HEIGHT. ONLY TREES WITH A BREAST HEIGHT DIAMETER OF 4" OR LARGER OR WITH 10 FEET OF CLEAR TRUNK WERE FIELD LOCATED.
- THIS SURVEY CONSISTS OF TWO (2) SHEETS AND SHALL NOT BE CONSIDERED COMPLETE AND OR VALID UNLESS ALL SHEETS ARE PRESENT.
- THE 2020 DIGITAL AERIAL PHOTOGRAPH SHOWN HEREON WAS OBTAINED THROUGH INDIAN RIVER COUNTY, FLORIDA. THIS SURVEY DOES NOT CERTIFY TO THE ACCURACY OF THE AERIAL PHOTOGRAPH AND IS FOR INFORMATIONAL PURPOSES ONLY.
- PARCELS 1 AND PARCEL 2 ARE CONTIGUOUS TO EACH OTHER WITHOUT GAPS OR GORES.
- THERE DOES NOT APPEAR TO BE ANY STRUCTURAL IMPROVEMENTS ENCRACHING ON THE SUBJECT PARCEL DEPICTED HEREON, HOWEVER THE SURVEYOR NOTES THAT THERE ARE NUMEROUS UTILITIES LOCATED ALONG AND PARTIALLY WITHIN THE SUBJECT SITE.

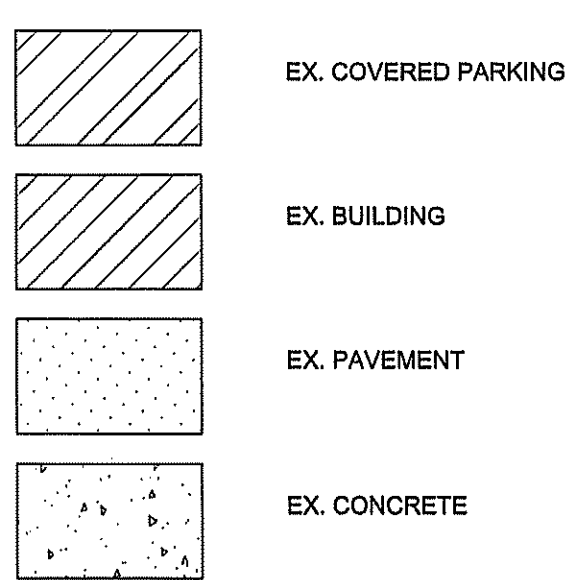
**VERTICAL DATUM AND CONTROL NOTES:**

THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) AND ARE DISPLAYED IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF. SAID ELEVATIONS SHOWN ARE BASED ON A CLOSED DIFFERENTIAL LEVEL LOOP MEETING OR EXCEEDING 4+0.8 TIMES THE SQUARE ROOT OF THE DISTANCE OF THE LOOP IN MILES. GROUND ELEVATIONS SHOWN HEREON HAVE AN ESTIMATED ACCURACY OF +0.2 FEET, AND HARD (WELL DEFINED) FEATURES HAVE AN ESTIMATED ACCURACY OF +0.1 FEET.

ORIGINATING BENCH MARK(S):  
 DESIGNATION: INDIAN RIVER COUNTY BENCHMARK BM046057  
 SECTION: 13530S05  
 QUAD: VERO BEACH (3004)  
 ELEVATION: 10.88 NAVD 1988  
 SET OUT IN NORTH LIP OF SANITARY SEWER MANHOLE AT THE INTERSECTION OF 18TH PLACE AND 10TH AVENUE, 5 FEET EAST OF THE CENTERLINE OF 10TH AVENUE.

Existing Site Information			
Existing Improvements	Area [S.F.]	Area [AC]	Percent [%]
Site Area	163,728.46	3.759	100.0%
Building	42,733.60	0.981	26.1%
Covered Parking	8,253.00	0.189	5.0%
Asphalt Pavement	60,781.80	1.395	37.1%
Impervious Area	111,768.40	2.566	68.3%
Open Area	51,960.06	1.193	31.7%
Existing Improvements to be Removed			
Building	42,733.60	0.981	26.1%
Covered Parking	8,253.00	0.189	5.0%
Asphalt Pavement	60,781.80	1.395	37.1%
<b>Total</b>	<b>111,768.40</b>	<b>2.566</b>	<b>68.3%</b>

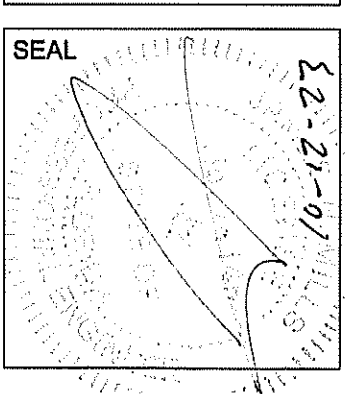
**LEGEND:**



**NOTES:**

- ALL EXISTING BUILDING AND IMPERVIOUS AREA WILL BE REMOVED AS PART OF THIS SITE PLAN APPLICATION.

**Mills, Short & Associates**  
 700 22nd Place, Suite 302D  
 Vero Beach, Florida 32960  
 PHONE: 772.225.7262 C.A. #: 30688  
 WEBSITE: www.millsshortandassociates.com



ISSUE	DATE	COMMENTS
1	10-11-23	FIRE COMMENTS

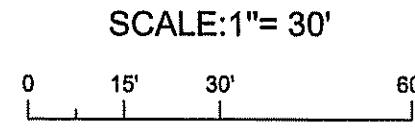
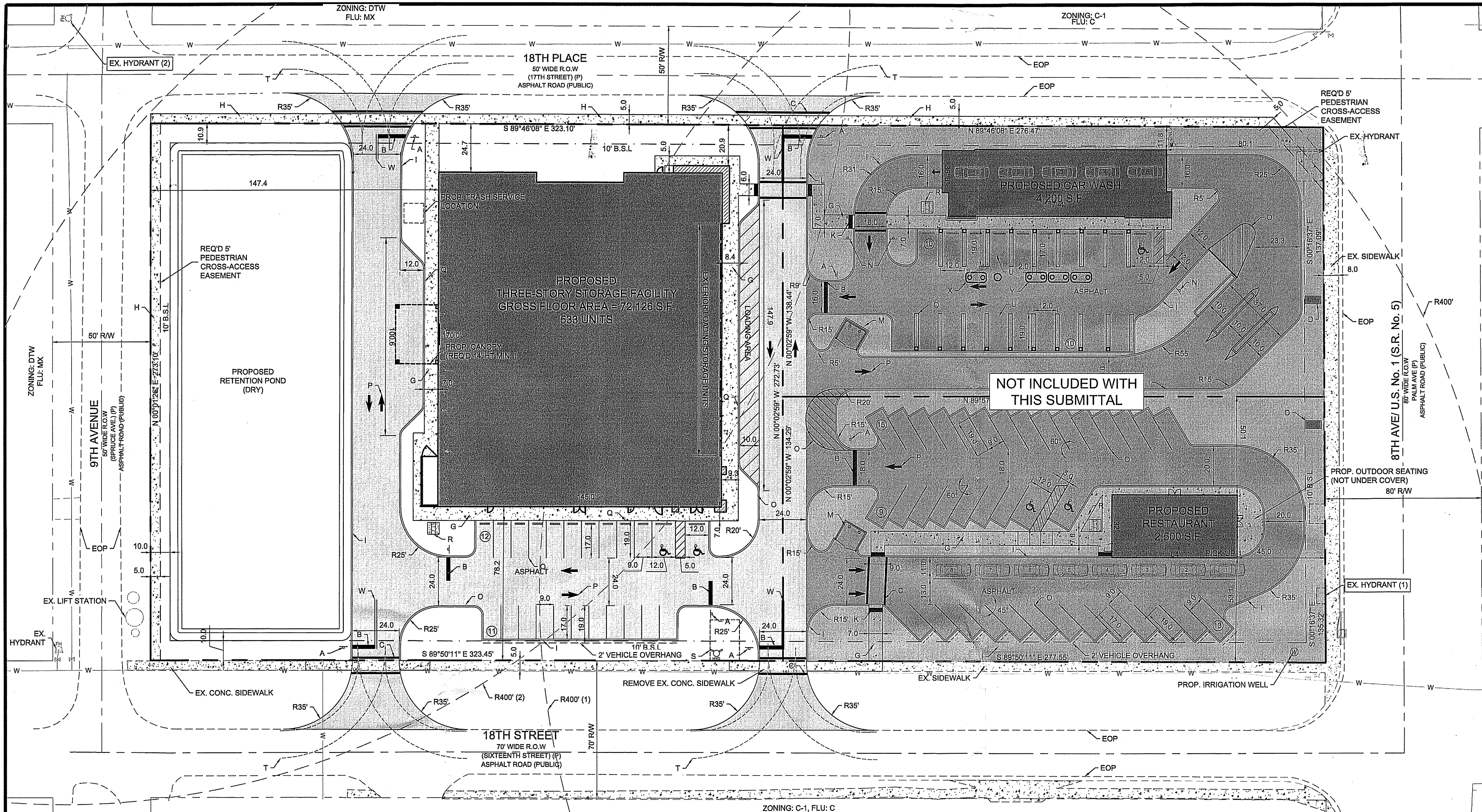
**VYBE INVESTMENT**  
**VERO BEACH DEVELOPMENT**  
 1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960  
 THE SHEET: EXISTING CONDITIONS  
 DRAWN BY: JWB  
 CHECKED BY: JWB  
 APPROVED BY: JWB  
 SCALE: 1"=30'

PROJ. NO.	21-3530
DATE	7/12/22
SHEET NO.	

**C-1**







- LEGEND:**
- PROPOSED CONC. SIDEWALK
  - PROPOSED ASPHALT
  - PROPOSED BUILDING
  - EXISTING CONC. SIDEWALK
- PROJECT LEGEND:**
- A. 30" R1-1, HI-INTENSITY STOP SIGN
  - B. 24" W SOLID WHITE THERMOPLASTIC STOP BAR PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
  - C. CROSS-WALK PER FDOT INDEX #711-001, CURRENT DESIGN STANDARDS.
  - D. MONUMENT SIGN
  - E. KNOX/CALL BOX
  - F. ENTRY AND EXIT GATES
  - G. 7" CONCRETE SIDEWALK
  - H. 5" CONCRETE SIDEWALK
  - I. TYPE "D" CURB
  - J. ADA HANDICAP SIGN
  - K. ADA MAT FDOT 522-02
  - L. TYPE "F" CURB
  - M. DUMPSTER ENCLOSURE
  - N. "DO-NOT-ENTER" SIGN
  - O. 4" SINGLE WHITE PAVEMENT MARKING (FDOT INDEX # 711-002)
  - P. THROUGH LANE-USE ARROW, WHITE (FDOT INDEX # 711-001)
  - Q. RIBBON CURB
  - R. BIKE RACK (4 BIKE CAPACITY)
  - S. FIRE HYDRANT
  - T. FIRE TRUCK TURN RADIUS (R55 OUTER, R35 INNER)
  - U. VACUUM STALLS
  - V. TRANSIT STOP
  - W. 25' DOUBLE YELLOW RUN BACK 4" STRIPPING
  - X. 2,000 GAL. RECLAIMED WATER TANK (SEE SHEET C-8 FOR DETAILS)
  - Y. 750 GAL. OIL WATER SEPARATOR TANK (SEE SHEET C-8 FOR DETAILS)
- JURISDICTIONAL PERMITS:**
- CITY OF VERO BEACH PLATTED-OVER SITE PLAN
  - CITY OF VERO BEACH LAND CLEARING PERMIT
  - CITY OF VERO BEACH TREE REMOVAL PERMIT
  - CITY OF VERO BEACH RIGHT-OF-WAY PERMIT
  - FDOT DRAINAGE PERMIT
  - ST. JOHN'S WATER MANAGEMENT DISTRICT
- PROJECTED CONSTRUCTION SCHEDULE:**
- |              |              |
|--------------|--------------|
| COMMENCEMENT | JANUARY 2024 |
| COMPLETION   | JANUARY 2025 |
- TRAFFIC STATEMENT:**
- EXISTING USE:  
GENERAL OFFICE BUILDING  
(113.80 TRIPS PER 1,000 S.F.) = 1,299 DAILY TRIPS
- PROPOSED USE:  
ITE TRIP GENERATION MANUAL, 11TH ED.  
MINI-WAREHOUSE (LAND USE 151):  
(1.45 TRIPS PER 1,000 S.F.) = 105 DAILY TRIP S  
AUTOMATED CAR WASH (LAND USE 948):  
(167 TRIPS PER CAR WASH TUNNEL) = 167 DAILY TRIPS  
FAST-FOOD RESTAURANT (LAND USE 934)  
(467.48 TRIPS PER 1,000 S.F.) = 1,169 TRIPS
- TOTAL PROPOSED = 1,441 DAILY TRIPS  
TOTAL EXISTING = 1,299 DAILY TRIPS  
NET NEW TRIPS = 142 TRIPS

**MOTOR VEHICLE SERVICING, CAR WASH.**  
A CAR WASH IN A COMMERCIAL ZONING DISTRICT SHALL COMPLY WITH THE DISTRICT DENSITY, INTENSITY AND DIMENSIONAL STANDARDS SPECIFIED FOR COMMERCIAL ZONING DISTRICTS IN THIS ARTICLE AND COMPLY WITH THE FOLLOWING STANDARDS:

A. THE USE SHALL BE LIMITED TO PARCELS WITH FRONTAGE ON U.S. HIGHWAY 1 AND MINIMUM PARCEL SIZE OF 30,000 S.F.

- PROPOSED CAR WASH FRONTAGE ON U.S. HIGHWAY 1 IS 137.12' (SEE PRELIMINARY PLAT SUBMITTAL) WITH A GROSS AREA OF 38,076 S.F.

B. THE USE SHALL NOT BE LOCATED WITHIN 1,500 FEET OF AN EXISTING CAR WASH FACILITY LOCATED WITHIN THE CITY LIMITS, AS MEASURED FROM NEAREST POINTS OF THE PARCEL PROPERTY LINES OF THE USES.

- PROPOSED CAR WASH IS NOT WITHIN 1,500 FEET OF AN EXISTING CAR WASH FACILITY. CLOSEST CAR WASH FACILITY (WAVES AUTO SPA) IS LOCATED 1,539 FEET SOUTH OF PROPOSED CAR WASH.

C. IF ABUTTING A RESIDENTIAL ZONING DISTRICT, EITHER A FIFTEEN FOOT (15') LANDSCAPED BUFFER OR A SIX-FOOT (6') HIGH BRICK OR FINISHED MASONRY WALL WITH A FIVE-FOOT (5') LANDSCAPED BUFFER SHALL BE PROVIDED.

- PROPOSED PROPERTY IS NOT ABUTTING A RESIDENTIAL ZONING DISTRICT.

D. THE FACILITY SHALL BE DESIGNED WITH A SUFFICIENT NUMBER OF VEHICULAR STACKING SPACES TO COMPLY WITH THE STANDARDS IN CHAPTER 63, OFF-STREET PARKING AND LOADING REQUIREMENTS TO AVOID OBSTRUCTION TO VEHICULAR MOVEMENT ALONG ADJACENT STREETS, THROUGH PARKING AREAS, AND IN FRONT OF BUILDINGS.

- PROPOSED CAR WASH IS DESIGNED TO COMPLY WITH CHAPTER 63 STANDARDS.

E. ALL AUTOMOBILE WASHING EQUIPMENT SHALL BE WITHIN AN ENCLOSED BUILDING EXCEPT THAT VACUUMING AND AIR PUMP EQUIPMENT MAY BE LOCATED OUTSIDE THE BUILDING, SUBJECT TO A LIMITATION ALLOWING OPERATION OF THE EXTERIOR EQUIPMENT ONLY BETWEEN THE HOURS OF 7:00 A.M. TO 9:00 P.M. AND THE EQUIPMENT SHALL BE SCREENED FROM VIEW FROM THE PUBLIC STREET BY HEDGE OR OTHER LANDSCAPE MATERIAL APPROVED BY THE PLANNING DIRECTOR.

- PROPOSED WASHING EQUIPMENT IS LOCATED WITHIN THE BUILDING (SEE ARCHITECTURAL PLANS FOR DETAILS). VACUUM STATIONS ARE SCREENED BY LANDSCAPE BUFFERS.

F. THE FACILITY SHALL BE DESIGNED AND CONSTRUCTED TO COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR CAR WASHES TO PREVENT THE CREATION AND CARRYING OFF THE PREMISES OF AIRBORNE PARTICLES OF WATER, CHEMICALS, AND DUST. NO WASH-WATER RUNOFF GENERATED BY THE FACILITY MAY BE CONVEYED OFF SITE. PRETREATMENT, DISPOSAL OR RECYCLE SYSTEM SHALL BE DESIGNED PURSUANT TO REQUIREMENTS IN CHAPTER 78, UTILITIES OF THE CITY CODE AND IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.

- PROPOSED SYSTEM COMPLIES WITH NPDES REQUIREMENTS.

G. IF THE CAR WASH OR AUTO DETAILING USE IS COMBINED WITH MOTOR VEHICLE SALES, MOTOR VEHICLE SERVICING OR OTHER USE, THE COMBINED USE SHALL COMPLY WITH THE STANDARDS (INCLUDING ZONING DISTRICTS WHERE PERMITTED) APPLICABLE TO EACH COMPONENT USE.

- NO AUTOMOTIVE SALES/SERVICES ARE PROPOSED.

**PROJECT DATA:**

**SITE ADDRESS:**  
1801 U.S. HIGHWAY ONE & 857  
18TH PL.  
VERO BEACH, FL 32980

**FLOOD ZONE:**  
ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP NUMBER 12061C0244 H, HAVING AN EFFECTIVE DATE DECEMBER 4, 2012. THIS PROPERTY APPEARS TO LIE WITHIN ZONE X, OUTSIDE SPECIAL FLOOD HAZARD AREA.

**OWNER:**  
WAYNE'S TOYS LLC  
8571 E HILLWOOD LN  
TUCSON, AZ 85750

**APPLICANT:**  
VYBE INVESTMENTS, LLC.  
2518 FLORIDA AVE  
WEST PALM BEACH, FL 33401

**ENGINEER:**  
MILLS, SHORT & ASSOCIATES, LLC.  
700 22ND PLACE, STE. 2C/2D  
VERO BEACH, FLORIDA 32980  
772.226.7282

	REQUIRED	PROVIDED
FRONT (EAST)	10'	45.0'
FRONT (SOUTH)	10'	53.1'
FRONT (NORTH)	10'	11.8'
FRONT (WEST)	10'	147.4'

**PARCEL ID:**  
33390100016000100001.0  
33390100016000200002.0

Site Data	Allowable	Proposed Site Information		%
		Parcel 1, 2 & 3 [S.F.]	[AC]	
Site Area	81,864	163,728	3.759	100.0%
Floor Area Ratio		78,826	1.810	48.1%
Building Coverage		31,350	0.720	19.1%
Impervious Area		105,526	2.423	64.5%
Building		31,350		
Conc./Misc.		7,315		
Asphalt		66,861		
Open Space	40,932	58,202	1.336	35.5%

**DESCRIPTION:**  
THIS SUBMITTAL IS A CODE COMPLIANCE FOR PARCEL 3 ONLY. THE FOLLOWING SITE INFORMATION FOR MAJOR SITE PLAN (SP22-000003) WAS APPROVED IN 2022. THE MODIFICATION TO PARCEL 3 INCLUDES CHANGES TO PROPOSED THREE-STORY STORAGE FACILITY FROM 72,642 S.F. TO 72,126 S.F. AND PROPOSED LOADING ZONES. NO PARKING HAS BEEN ALTERED FROM PREVIOUS APPROVED PLANS.

**PARKING STATEMENT:**

**STORAGE FACILITY:**  
3 SPACES AND A 24 FT. WIDE DRIVE/ACCESS AISLE TO EACH INDIVIDUAL STORAGE UNIT.

REQUIRED PARKING = 3 SPACES  
PROVIDED PARKING = 23 SPACES  
STANDARD SPACES = 21 EA.  
ADA SPACES = 2 EA.

**BICYCLE PARKING:**  
ONE (1) SPACE PER 20 PARKING SPACES.  
23 SPACES / 20 SPACES = 1.16 = 1 SPACES

**RESTAURANT:**  
ONE SPACE / 100 SQ. FT. OF FLOOR AREA, STACKING LANE(S) FOR A MINIMUM OF 8 CARS.

REQUIRED PARKING:  
2,600 S.F. / 100 S.F. PER ONE (1) SPACE = 25 SPACES  
TOTAL PROVIDED SPACES = 37 EA.  
STANDARD SPACES = 35 EA.  
ADA SPACES = 2 EA.

**BICYCLE PARKING:**  
37 SPACES / 20 SPACES = 1.85 = 2 SPACES

**CAR WASH:**  
PARKING CALCULATION: TWO (2) SPACES PER BAY  
REQUIRED PARKING:  
100' BUILDING / 20' STALL DEPTH = 5 BAYS  
5 BAYS x 2 SPACES / BAY = 10 SPACES  
TOTAL REQUIRED PARKING = 10 EA.  
TOTAL PROVIDED SPACES: 20 EA.  
STANDARD SPACES = 19 EA.  
ADA SPACES = 1 EA.

**BICYCLE PARKING:**  
20 SPACES / 20 SPACES = 1 SPACE

**TOTAL REQUIRED PARKING (ALL PARCELS): 38 SPACES**

**TOTAL PROVIDED PARKING (ALL SITES): 80 SPACES**

**STANDARD PARKING: 75 SPACES**

**ADA PARKING: 5 SPACES**

**ADA ACCESSIBILITY NOTES:**

- ALL HANDICAPPED PARKING SPACES AND ACCESS AISLES ADJACENT TO THE HANDICAP PARKING SPACES SHALL HAVE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS, INCLUDING RUNNING SLOPE AND CROSS SLOPE.
- AN ACCESSIBLE ROUTE FROM THE PUBLIC STREET OR SIDEWALK TO ALL BUILDING ENTRANCES MUST BE PROVIDED. THIS ACCESSIBLE ROUTE SHALL BE A MINIMUM OF 60" WIDE. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%.
- SLOPES EXCEEDING 5% BUT LESS THAN 8% WILL REQUIRE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS). NO RAMP SHALL EXCEED AN 8% RUNNING SLOPE OR 2% CROSS SLOPE.

**TRAFFIC NOTES**

- THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER DARK.
- 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.
- CONSTRUCTION FENCING USED IN THE WORK AREA TO PROTECT EQUIPMENT OR EXCAVATIONS SHALL NOT BLOCK SIGHT DISTANCE NEAR INTERSECTIONS OR DRIVEWAYS.
- ALL IMPACTS TO THE RIGHT-OF-WAY SHALL BE SODDED WITHIN THREE (3) DAYS OF FINAL GRADING.

**DESIGN PERFORMANCE STANDARDS:**

- THE PROPOSED DESIGN AND LAYOUT OF DRIVEWAYS, PARKING AND LOADING AREAS, AND PEDESTRIAN TRAVEL PATHS WILL CREATE NO HAZARDOUS CONDITIONS OR CONFLICTS FOR THE PARKING OF VEHICLES, UNLOADING/LOADING OF PASSENGER AND SERVICE VEHICLES, AND INTERNAL MOVEMENTS OF VEHICLES, PEDESTRIANS AND BICYCLES. **WE BELIEVE THE PROPOSED DRIVEWAY LOCATIONS AND PEDESTRIAN SIDEWALK DESIGN MEETS THE INTENT OF THE ABOVE REQUIREMENTS.**
- THE PROPOSED LOCATION AND DESIGN OF THE SITE'S INGRESS AND EGRESS POINTS WILL NOT RESULT IN OFF-SITE TRAFFIC CONGESTION OR HAZARDS IN THE IMMEDIATE VICINITY OF THE PROJECT. **THE PROPOSED DRIVEWAY LOCATIONS MEET THE CITY AND FDOT DRIVEWAY LOCATION STANDARDS.**
- THE PROPOSED ARRANGEMENT OF BUILDINGS, PARKING AND UNLOADING/LOADING AREAS, LANDSCAPING AND SITE ACTIVITIES WILL NOT RESULT IN UNREASONABLE AND DISRUPTIVE IMPACTS ON ADJACENT PROPERTIES, IN TERMS OF NOISE, ODOR, TRAFFIC, DEBRIS AND TRASH, THE HOURS OF OPERATION, CHANGES IN TRAFFIC CIRCULATION PATTERNS, OR OTHER RELEVANT DISRUPTIVE FACTORS. **THE PROPOSED BUILDINGS ARE LOCATED WITHIN REQUIRED BUILDING SETBACKS TO MEET APPLICABLE COVB CODE REQUIREMENTS. HOURS OF OPERATION, ODOR AND NOISE REQUIREMENTS WILL BE REQUIRED TO MEET CITY CODE.**
- THE PROPOSED ARRANGEMENT OF BUILDINGS, PARKING AND UNLOADING/LOADING AREAS, AND OUTDOOR USES AND ACTIVITIES WILL NOT RESULT IN NOTICEABLE AND DIRECT ADVERSE IMPACTS ON THE SAFETY, STABILITY, AND HABITABILITY OF RESIDENTIAL NEIGHBORHOODS IN THE IMMEDIATE VICINITY OF THE PROJECT. **WE BELIEVE THE PROPOSED DESIGN MEETS THE PERFORMANCE STANDARD INTENT.**

**GENERAL NOTES**

- PARKING STALL WIDTHS SHALL BE DIMENTIONED FROM CENTERLINE TO CENTERLINE OF WHITE STRIPES. THIS APPLIES TO HANDICAP PARKING STALLS ALSO.
- 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.
- ALL HANDICAP PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH THE FDOT STANDARD INDEX 711-001, CURRENT EDITION.
- ALL NUISANCE EXOTIC VEGETATION EXISTING ONSITE MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT.
- 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.
- PRE-DEMOLITION INSPECTION APPLICATION AND PERMIT THROUGH THE DEPARTMENT OF HEALTH ARE REQUIRED PRIOR TO DEMOLITION OF THE STRUCTURE. CONTACT CHARLES VOIGT AT (772) 794-7442 FOR MORE INFORMATION.
- ALL WELLS IMPACTED BY DEVELOPMENT ACTIVITIES MUST BE ABANDONED BY A LICENSED WELL CONTRACTOR. PERMITTING IS REQUIRED THROUGH THE DEPARTMENT OF HEALTH.

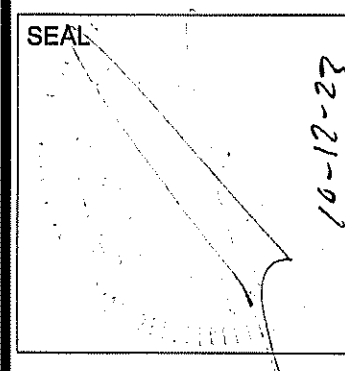
**FIRE NOTE:**

- COMMERCIAL/MULTI-FAMILY BUILDINGS SHALL POST A MINIMUM 6-INCH NUMERICAL ADDRESS.
- ALL BUILDINGS REQUIRE A KEY ACCESS BOX (KNOX).
- COMBUSTIBLE CONSTRUCTION REQUIRES TEMPORARY FIRE LANES AND HYDRANT INSTALLATION PRIOR TO COMBUSTIBLES ON SITE.
- THE ENGINEER SHALL CONFIRM THAT THE ADA SIGN MEETS ALL APPLICABLE ACCESSIBILITY REGULATIONS.
- FIRE DEPARTMENT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13'-6".

**LIGHTING NOTE:**

- ALL PROVIDED EXTERIOR LIGHTING SHALL REQUIRE CUT-OFF / SHIELDING.

**Mills, Short & Associates**  
772.226.7282 C.A.#: 30698  
www.MillsShortAssociates.com  
700 22nd Place, Suite 2C/2D  
Vero Beach, Florida 32980



ISSUE	DATE	COMMENTS
A	10.11.23	FIRE COMMENTS

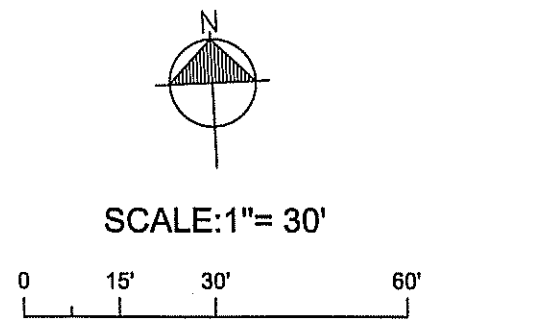
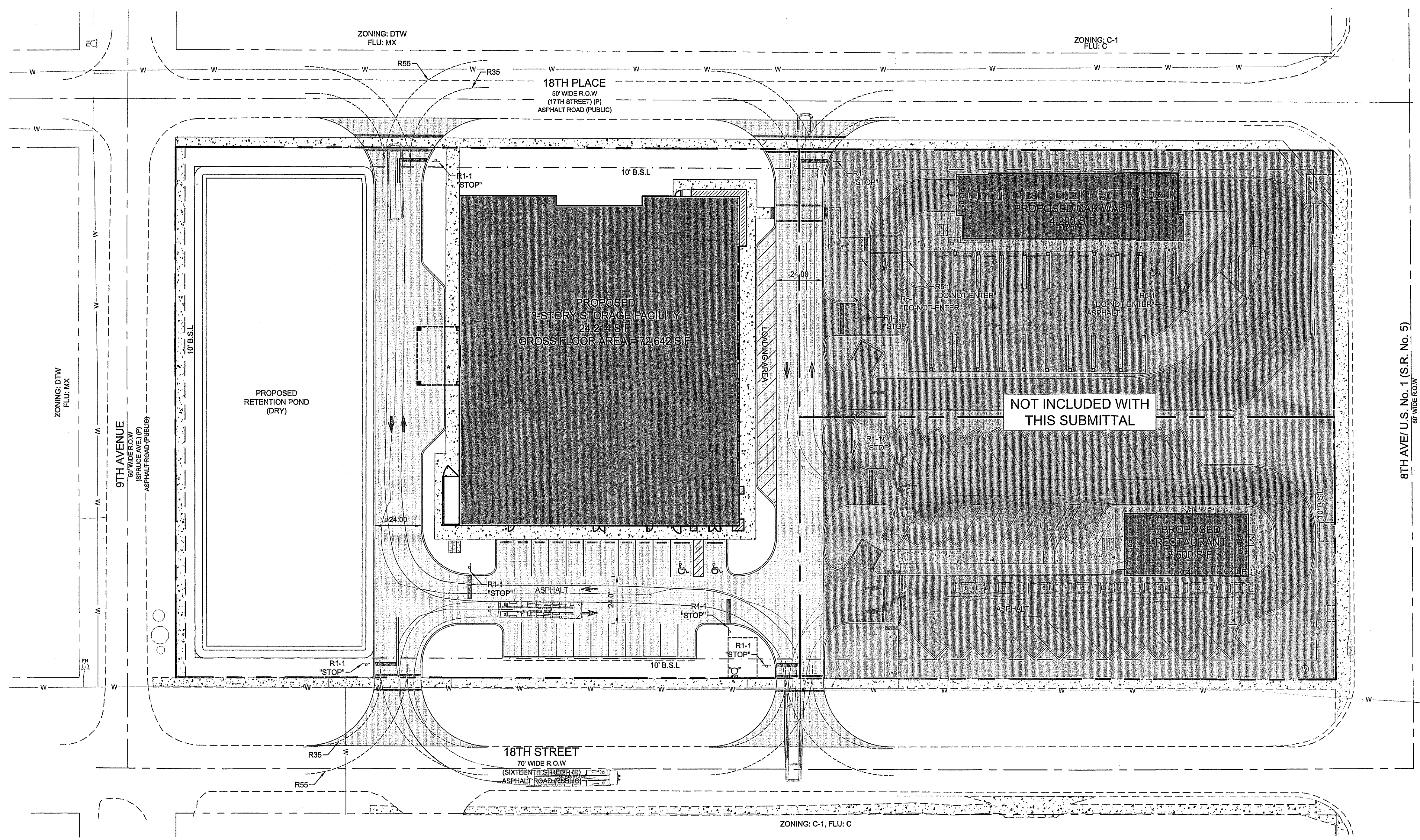
**VYBE INVESTMENT VERO BEACH DEVELOPMENT**  
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32980

APPROVED BY: JWM  
CHECKED BY: JWM  
DRAWN BY: WBD

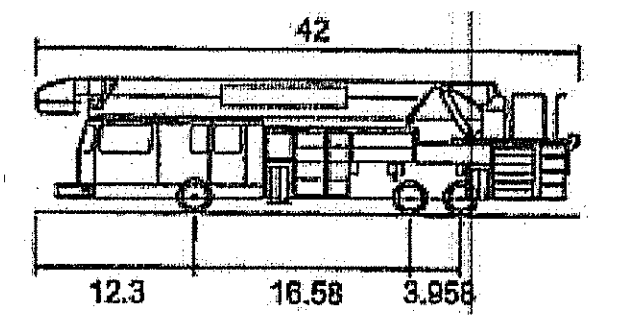
**APPROVED**  
# CC23-600415  
Planning and Development Department  
11-9-23  
Date Director  
Per Section 64.11, this approval expires in 6 months unless an application for a building permit has been made.

PROJ. NO. 21-3530  
DATE 7/12/22  
SHEET NO. C-3





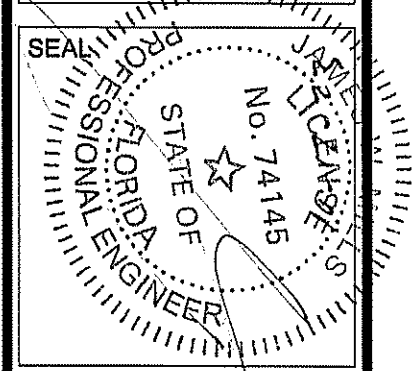
- LEGEND:**
- PROPOSED CONC. SIDEWALK
  - PROPOSED ASPHALT
  - PROPOSED BUILDING
  - EXISTING CONC. SIDEWALK



REQUIRED RADIUS:  
OUTTER = 55.0'  
INNER = 35.0'

NOT INCLUDED WITH THIS SUBMITTAL

**Mills, Short & Associates**  
PHONE: 772-226-7282 C.A. #: 30698  
700 22nd Place, Suite 2C/2D Vero Beach, Florida 32960  
WEBSITE: www.MillsShortAssociates.com



ISSUE	DATE	COMMENTS
A	10.11.23	FIRE COMMENTS

**VYBE INVESTMENT VERO BEACH DEVELOPMENT**  
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960  
THIS SHEET CIRCULATION PLAN  
DRAWN BY: WBD  
CHECKED BY: JWM  
APPROVED BY: JWM  
SCALE: SEE SHEET

PROJ. NO. 21-3530  
DATE 7/12/22  
SHEET NO.

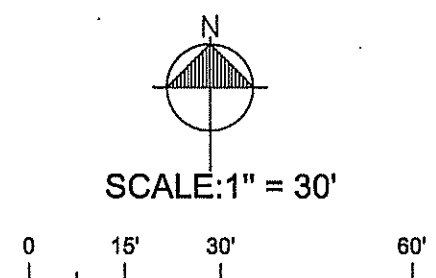
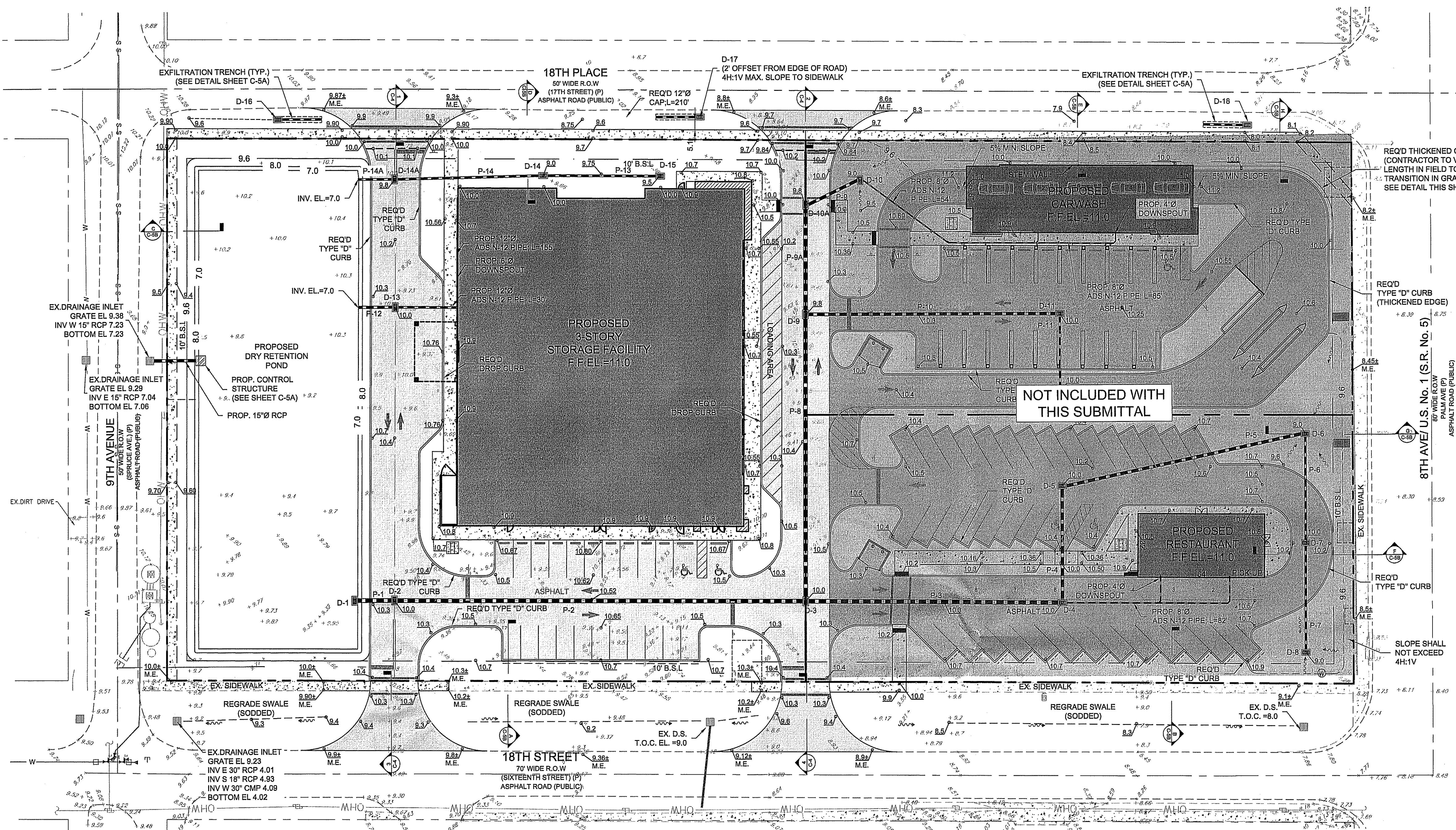
**C-3A**



TIME: 10:48:47 AM

DATE: 10/11/2023

FILE: C:\Users\wpetris\Documents\Short & Associates\Common - Documents\CADD\21-3530 Vibe Investments\SRQA Storage\Civil\21-3530 C-4 Grading Plan.dwg

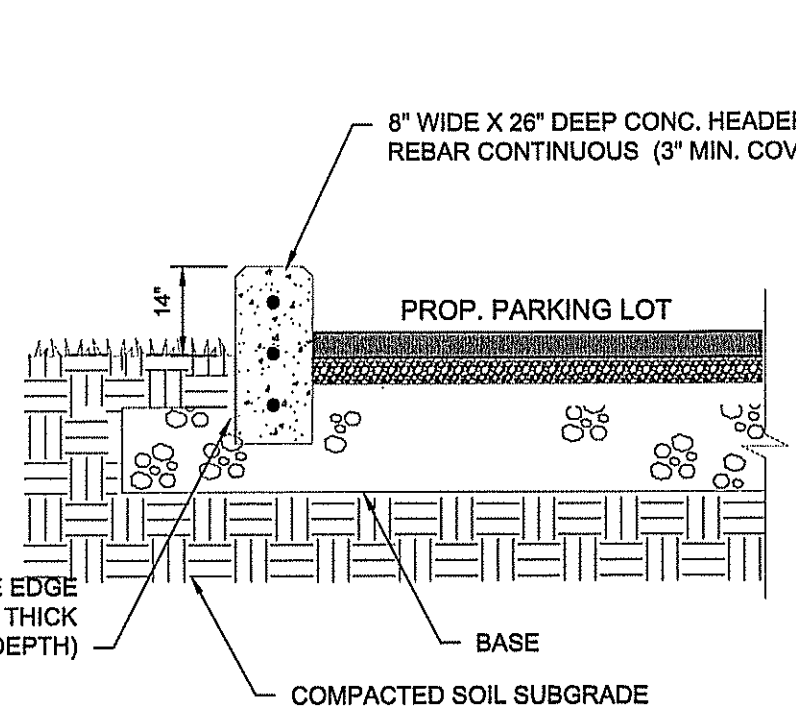


**GRADING LEGEND**

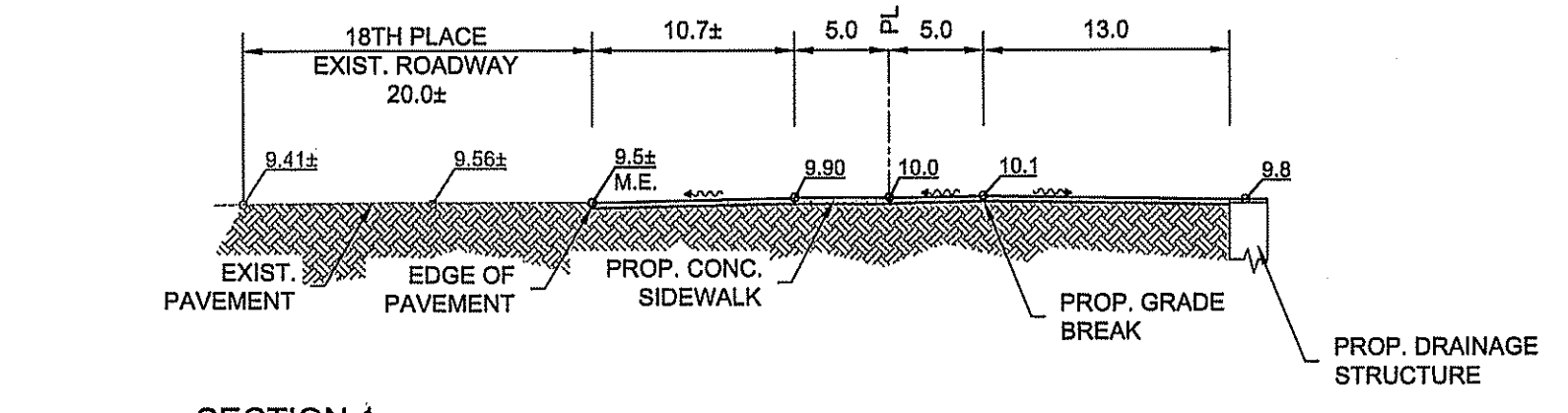
- X20.20 EXISTING GRADE
- PROPOSED STORM INLET
- PROPOSED SPOT ELEVATION
- PROPOSED EDGE OF PAVEMENT ELE. PROPOSED TOP OF CURB ELEVATION
- PROPOSED DRAINAGE PATTERN
- PROPOSED STORM DRAIN PIPE

Structure	Type	Top	Invert			
			North	South	East	West
DS-1	Type-C	7.00			5.00	
DS-2	Type-C	10.00			5.19	5.09
DS-3	Type-C	10.00	5.88		5.88	5.78
DS-4	Type-C	10.00	6.32			6.22
DS-5	Type-C	10.00		6.48	6.58	
DS-6	Type-C	7.90		7.02		6.92
DS-7	Type-C	10.00	7.17	7.27		
DS-8	Type-C	9.70	7.41			
DS-9	Type-C	9.80	6.38	6.28	6.38	
DS-10A	Type-C	9.80		6.58	6.68	
DS-10	Type-C	8.05			6.76	
DS-11	Type-C	10.00		6.56		6.46
DS-12	Type-C	10.00	6.66			
DS-13	Type-C	10.00			7.18	7.08
DS-14	Type-C	9.00			7.50	7.40
DS-14A	Type-C	9.80			7.19	7.09
DS-15	Type-C	9.50				7.68

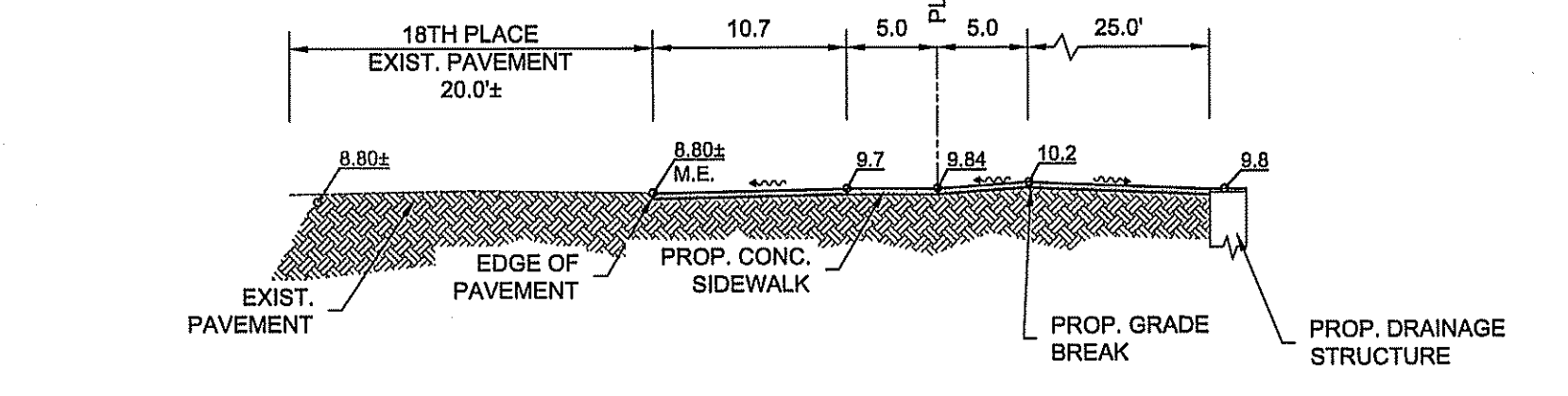
Pipe	Type	Length [ft]	Diameter [in]	Slope [ft/ft]
P-1	ADS N-12	33.0	24	0.28%
P-2	ADS N-12	209.0	24	0.28%
P-3	ADS N-12	123.0	24	0.28%
P-4	ADS N-12	56.0	18	0.28%
P-5	ADS N-12	122.0	18	0.28%
P-6	ADS N-12	52.0	12	0.28%
P-7	ADS N-12	52.0	12	0.28%
P-8	ADS N-12	143.0	24	0.28%
P-9	ADS N-12	28.0	12	0.28%
P-9A	ADS N-12	51.0	18	0.28%
P-10	ADS N-12	122.0	18	0.28%
P-11	ADS N-12	36.0	12	0.28%
P-12	ADS N-12	30.0	15	0.28%
P-13	ADS N-12	55.0	12	0.28%
P-14	ADS N-12	73.0	12	0.28%
P-14A	ADS N-12	33.0	12	0.28%



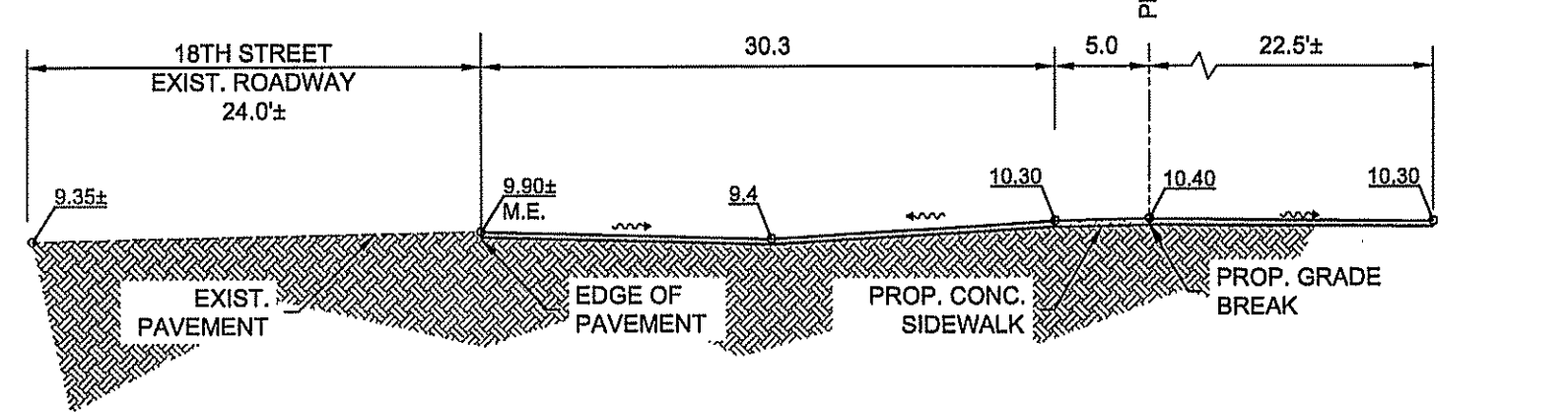
**THICKENED CURB DETAIL**  
SCALE: N.T.S.



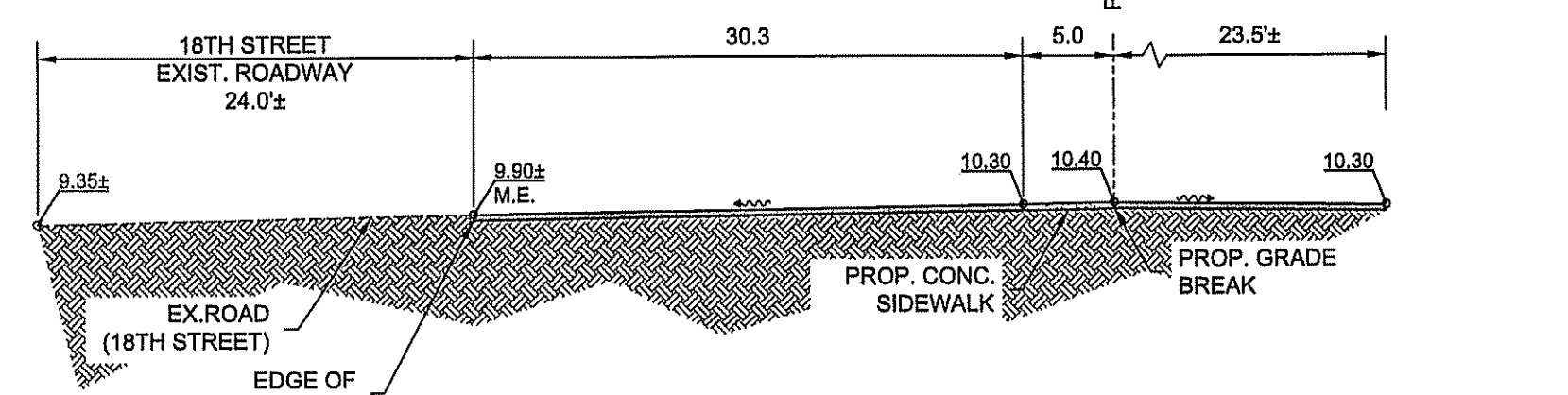
**SECTION 1**  
N.T.S.



**SECTION 2**  
N.T.S.

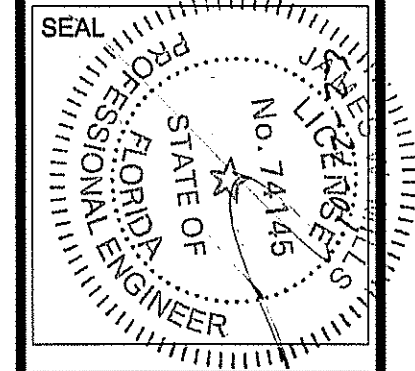


**SECTION 3**  
N.T.S.



**SECTION 4**  
N.T.S.

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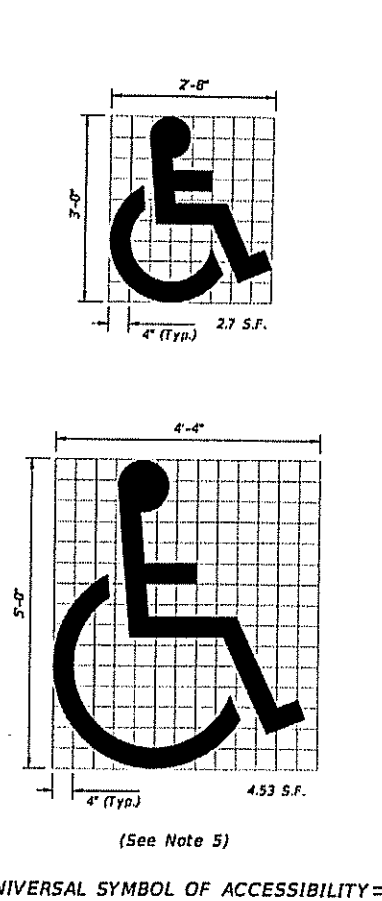
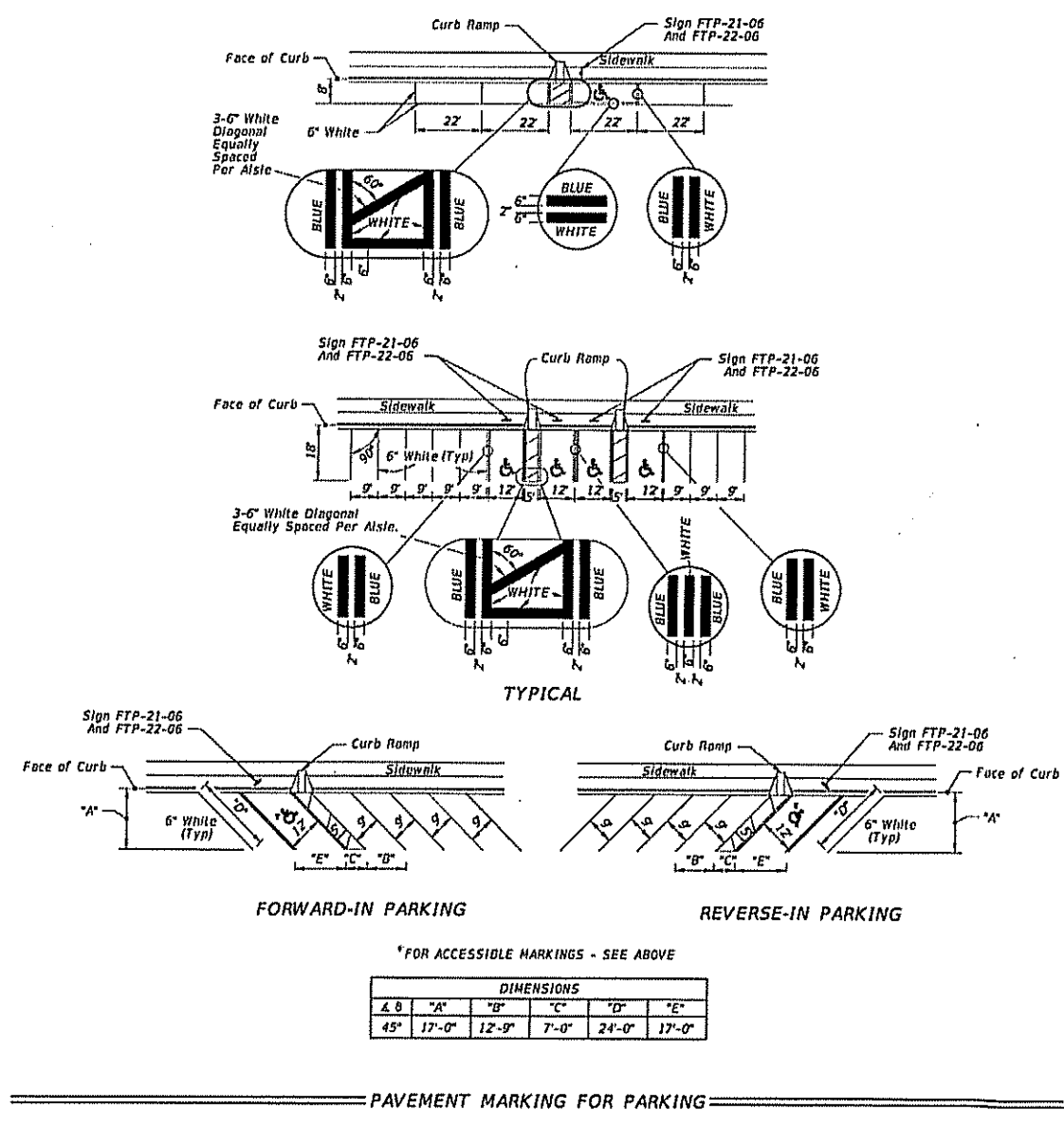
ISSUE	DATE	COMMENTS
A	10-11-23	FIRE COMMENTS

**VIBE INVESTMENT VERO BEACH DEVELOPMENT**  
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960  
THIS SHEET: PAVING, GRADING AND DRAINAGE PLAN  
SCALE: 1"=30'  
APPROVED BY: JWM  
DRAWN BY: WBD

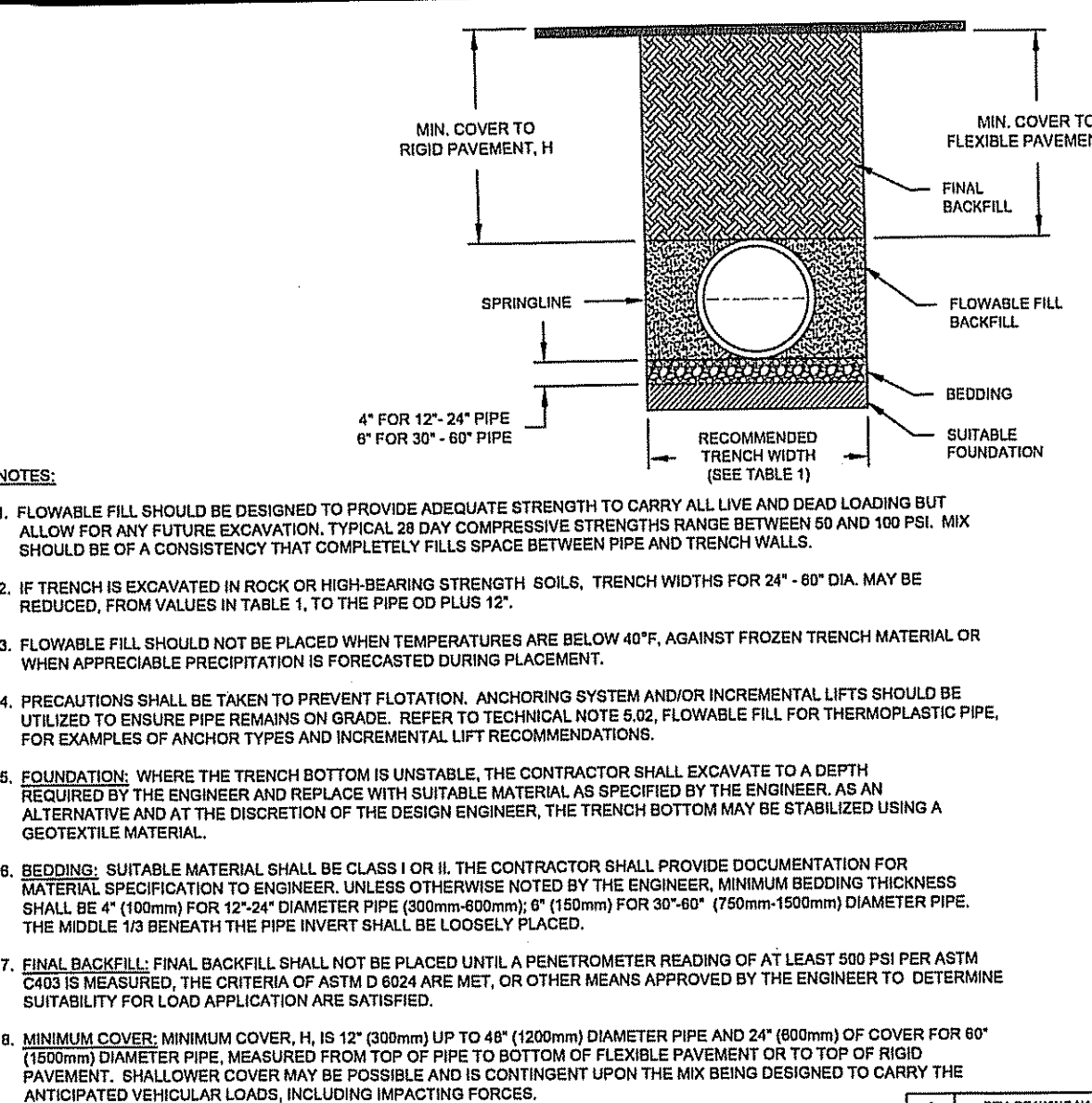
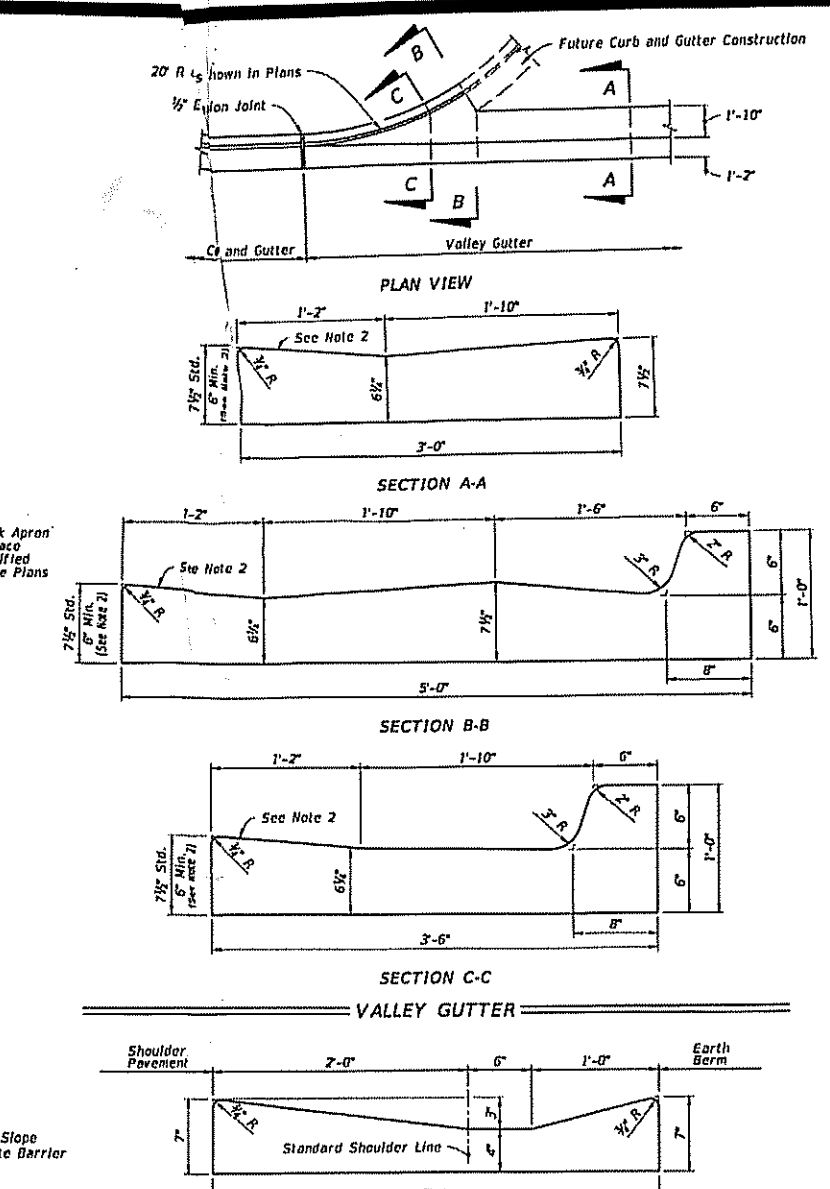
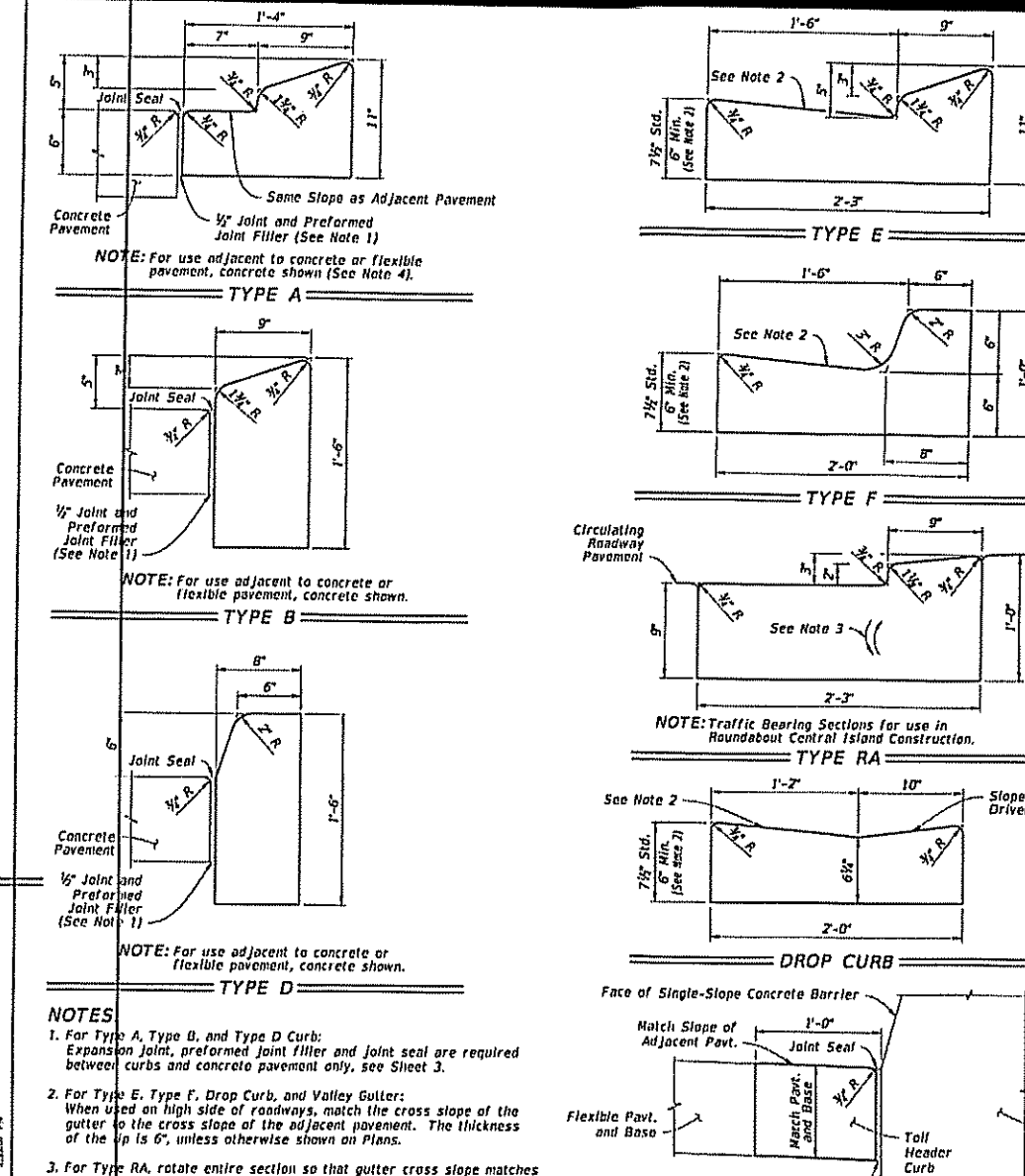
PROJ. NO. 21-3530  
DATE 7/12/22  
SHEET NO.







- NOTES:**
- Dimensions are to the centerline of markings.
  - An Access Aisle is required for each accessible space when space permits.
  - Criteria for pavement markings only, not public sidewalk lane space locations. For ramp markings refer to plans.
  - Mount FFF-21-06 sign below the FFF-21-06 sign.
  - Use of the pavement symbol in accessible parking spaces is subject to the discretion of the engineer. The symbol is 3'-0" x 3'-0" high and white on color.



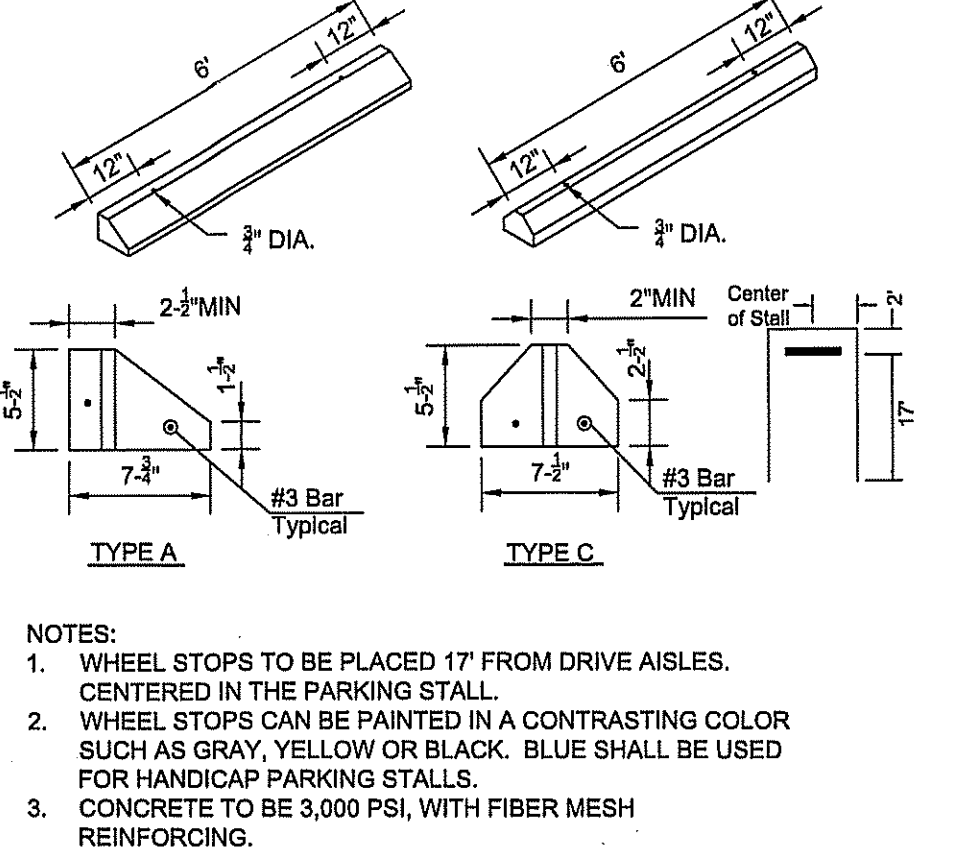
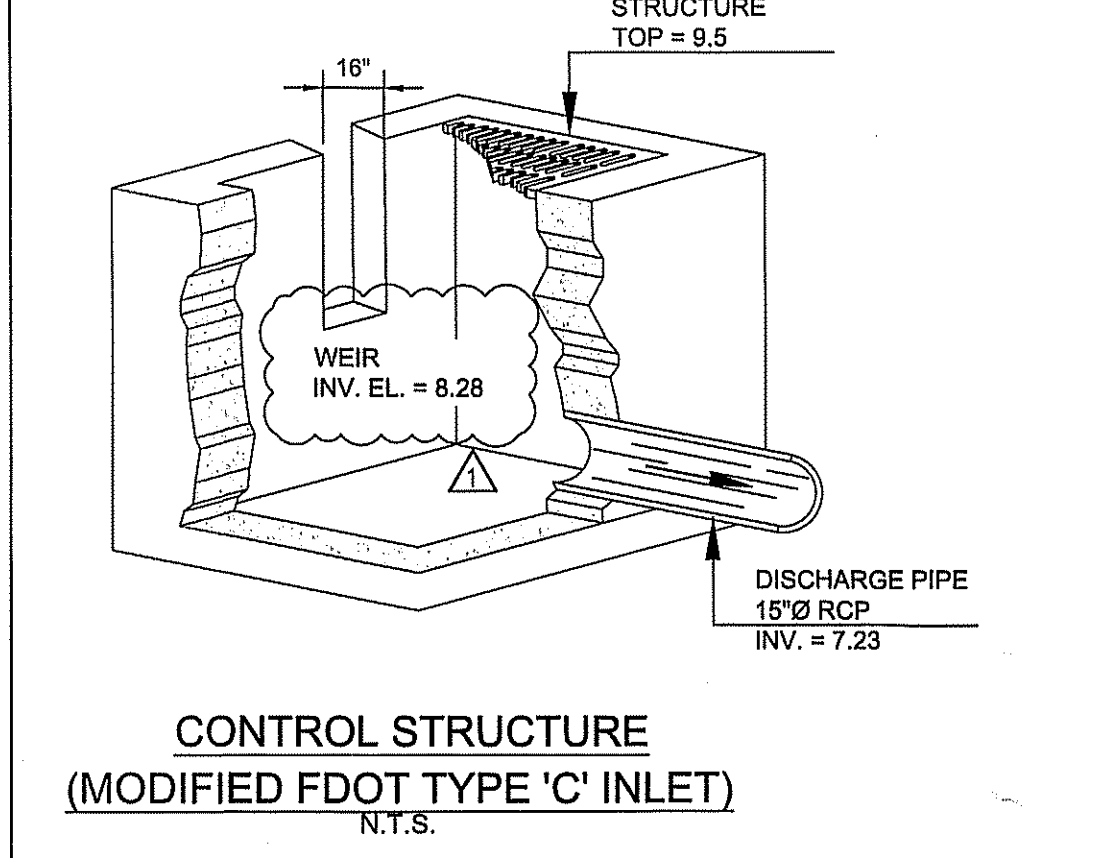
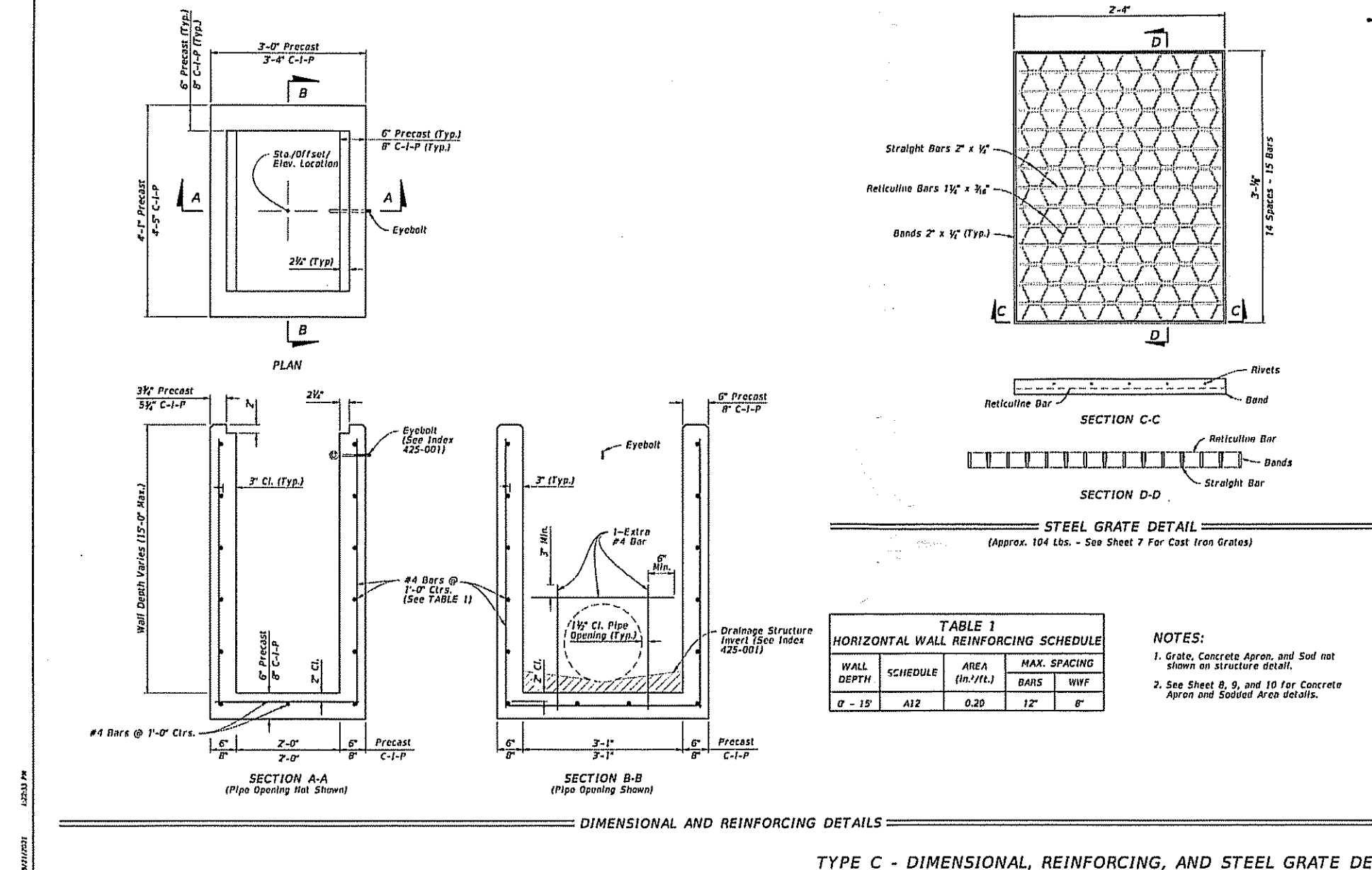
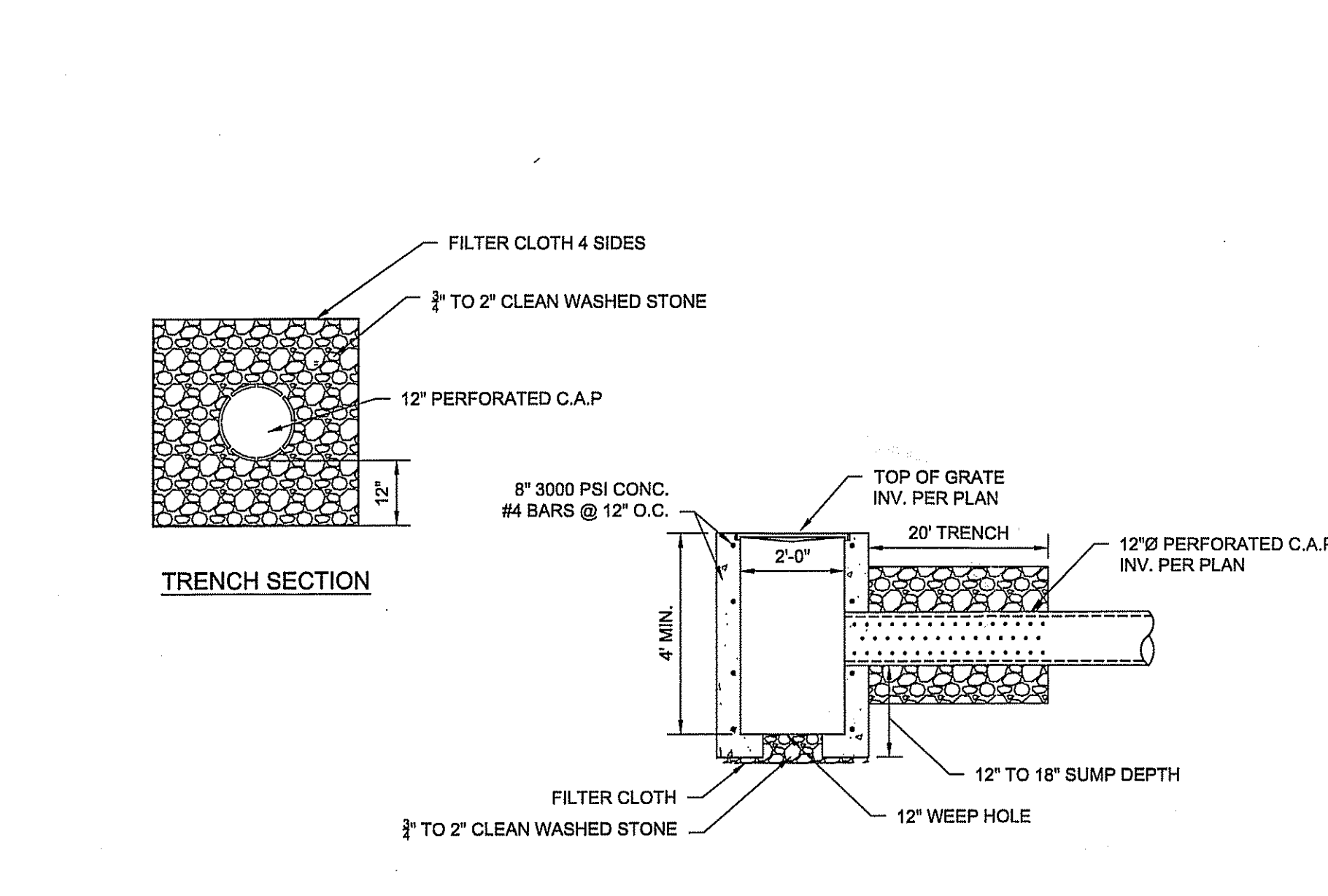
**TABLE 1. RECOMMENDED TRENCH WIDTHS**

PIPE DIA.	MIN. TRENCH WIDTH
12" (300mm)	24"
15" (375mm)	27"
18" (450mm)	33"
21" (525mm)	37"
24" (600mm)	42"
30" (750mm)	51"
36" (900mm)	57"
42" (1050mm)	66"
48" (1200mm)	74"
54" (1350mm)	82"
60" (1500mm)	90"
66" (1650mm)	98"

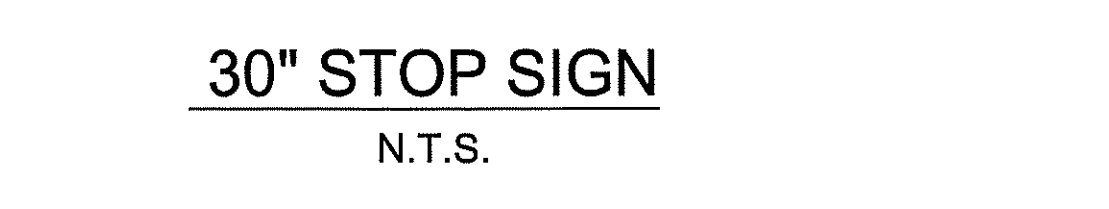
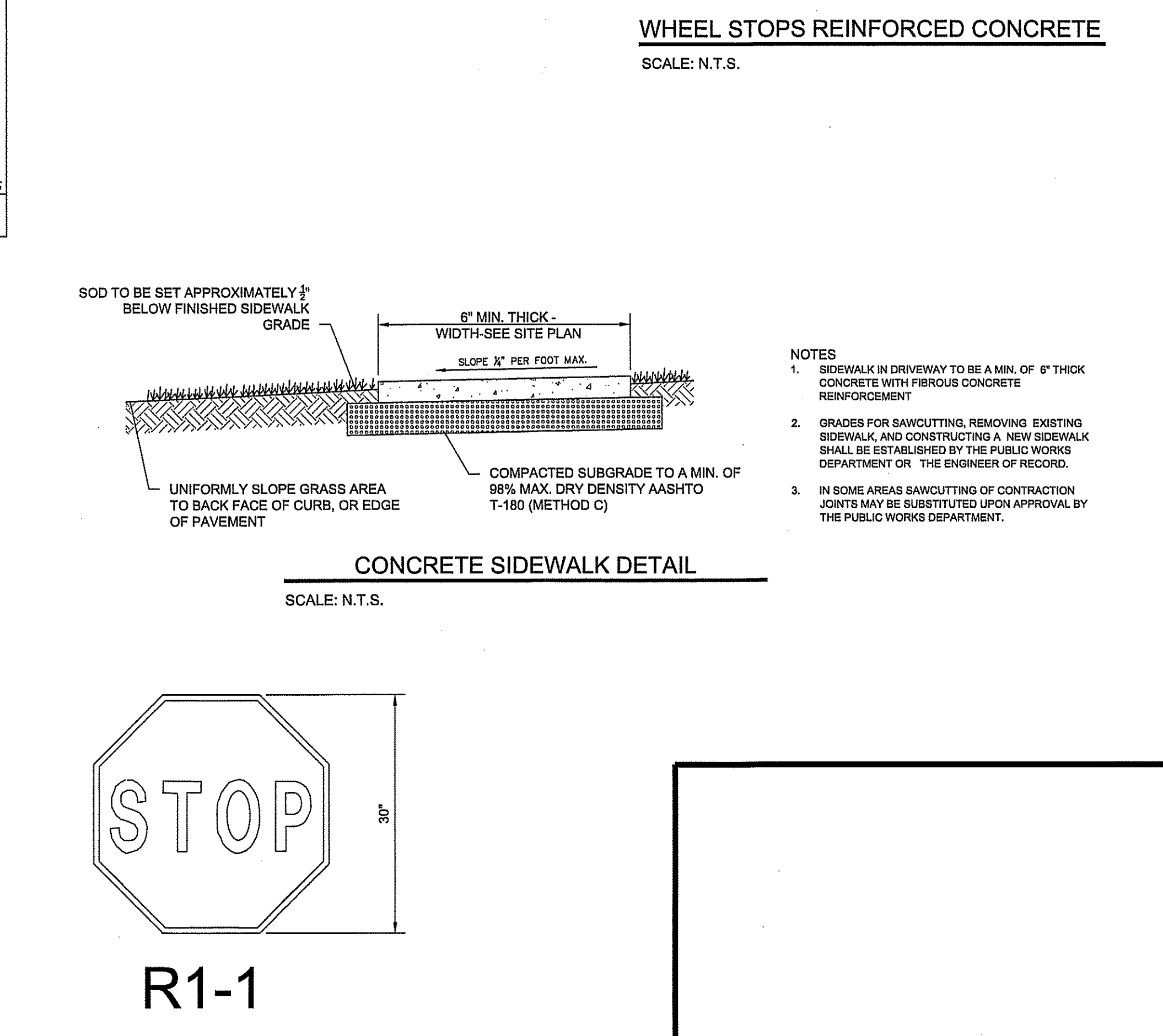
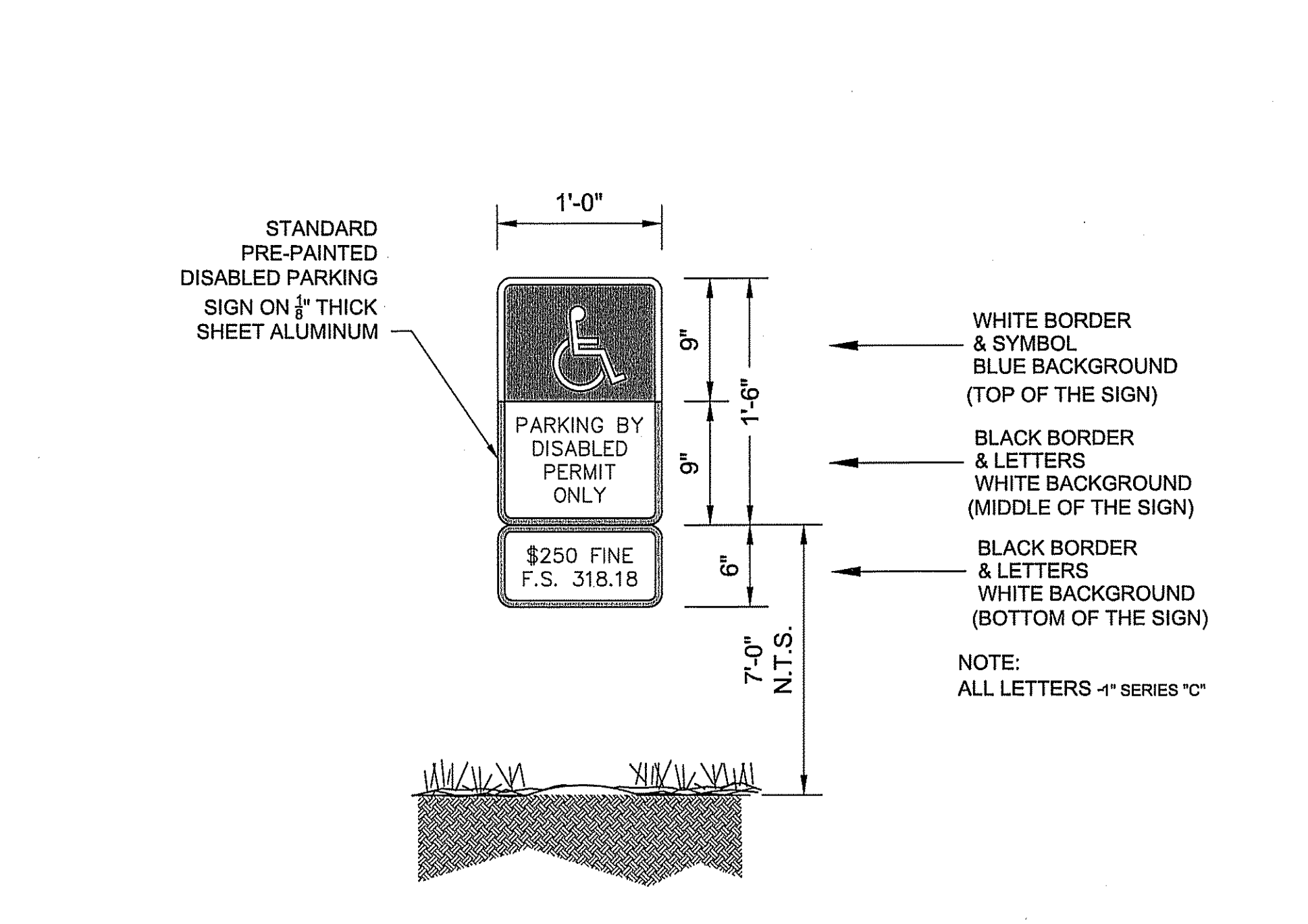
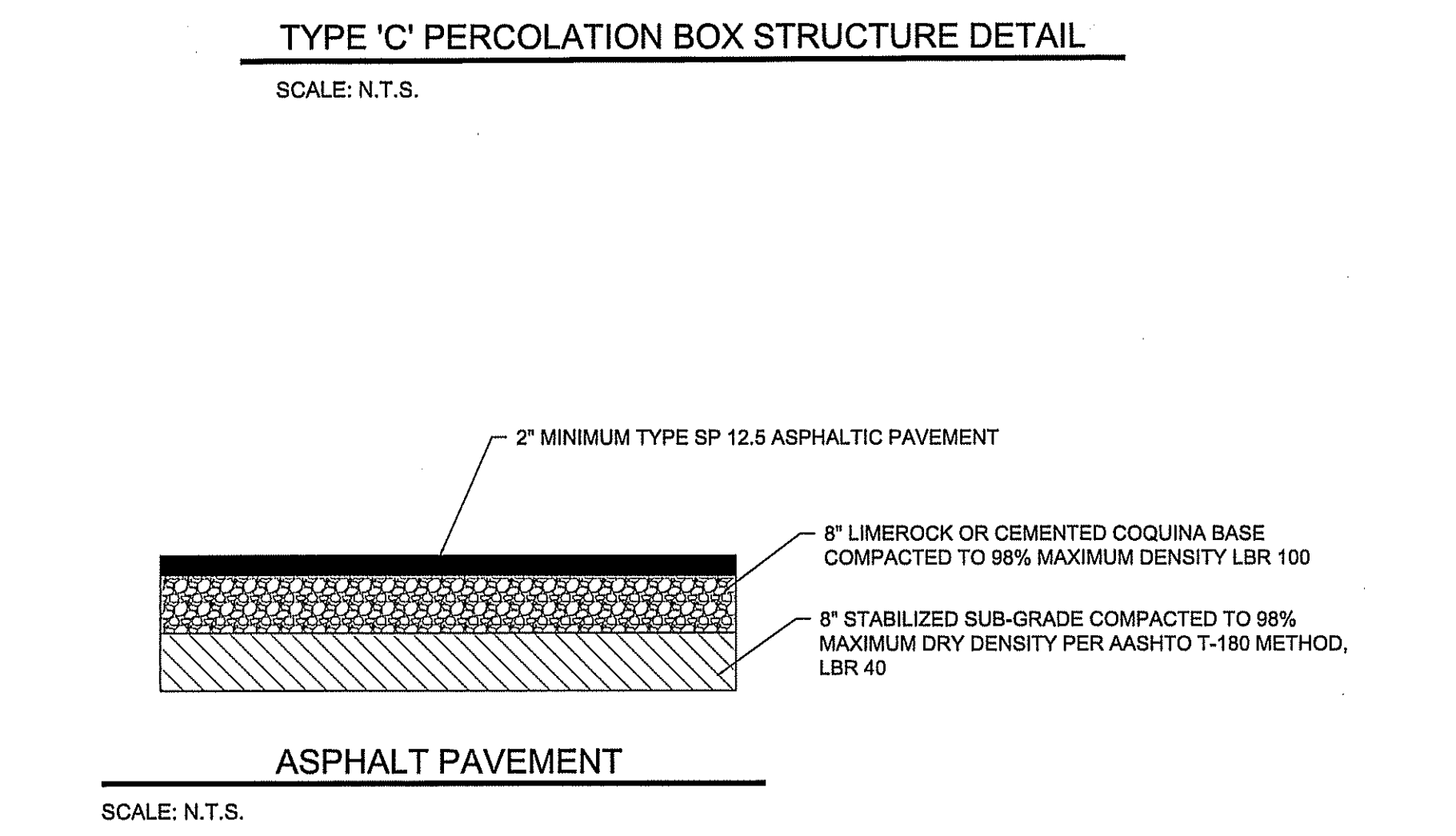
- NOTES:**
- Flowable fill should be designed to provide adequate strength to carry all live and dead loading but allow for any future excavation. TYPICAL 28 DAY COMPRESSIVE STRENGTHS RANGE BETWEEN 50 AND 100 PSI. MIX SHOULD BE OF A CONSISTENCY THAT COMPLETELY FILLS SPACE BETWEEN PIPE AND TRENCH WALLS.
  - IF TRENCH IS EXCAVATED IN ROCK OR HIGH-BEARING STRENGTH SOILS, TRENCH WIDTHS FOR 24" - 48" DIA. MAY BE REDUCED, FROM VALUES IN TABLE 1, TO THE PIPE OD PLUS 12".
  - Flowable fill should NOT be placed when temperatures are below 40°F. AGAINST FROZEN TRENCH MATERIAL OR WHEN APPROPRIATE PRECIPITATION IS FORECASTED DURING PLACEMENT.
  - PRECAUTIONS SHALL BE TAKEN TO PREVENT FLOTATION. ANCHORING SYSTEM AND/OR INCREMENTAL LIFTS SHOULD BE UTILIZED TO ENSURE PIPE REMAINS ON GRADE. REFER TO TECHNICAL NOTE 6.02, FLOWABLE FILL FOR THERMOPLASTIC PIPE, FOR EXAMPLES OF ANCHOR TYPES AND INCREMENTAL LIFT RECOMMENDATIONS.
  - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  - BEDDING: SUITABLE MATERIAL SHALL BE CLASS II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" DIAMETER PIPE (300mm-600mm), 6" (150mm) FOR 30"-48" (750mm-1200mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
  - FINAL BACKFILL: FINAL BACKFILL SHALL NOT BE PLACED UNTIL A PENETROMETER READING OF AT LEAST 600 PSI PER ASTM D1585 IS MEASURED. THE CRITERIA OF ASTM D 1585 ARE MET, OR OTHER MEANS APPROVED BY THE ENGINEER TO DETERMINE SUITABILITY FOR LOAD APPLICATION ARE SATISFIED.
  - MINIMUM COVER: MINIMUM COVER, 14" IS 12" (300mm) LIP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. SHALL COVER MAY BE POSSIBLE AND IS CONTINGENT UPON THE MIX BEING DESIGNED TO CARRY THE ANTICIPATED VEHICULAR LOADS, INCLUDING IMPACTING FORCES.

REV.	DESCRIPTION	DATE	BY	CHKD
1	REV. DRAWING NAME OR NUMBER			
2	TRENCH INSTALLATION DETAIL (FLOWABLE FILL)	11/01/20		
3				
4				

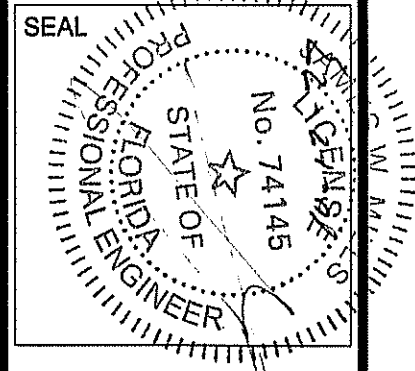
LAST REVISION	DESCRIPTION	DATE	INDEX	DESCRIPTION	DATE	INDEX	DESCRIPTION	DATE	INDEX	DESCRIPTION
11/01/21			711-001	PAVEMENT MARKINGS	11/01/23	711-001	PAVEMENT MARKINGS	11/01/20	425-052	DITCH BOTTOM INLET TYPE C, D, E, AND H



LAST REVISION	DESCRIPTION	DATE	INDEX	DESCRIPTION	DATE	INDEX	DESCRIPTION	DATE	INDEX	DESCRIPTION
11/01/20			711-001	PAVEMENT MARKINGS	11/01/20	425-052	DITCH BOTTOM INLET TYPE C, D, E, AND H	11/01/20	425-052	DITCH BOTTOM INLET TYPE C, D, E, AND H



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1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960

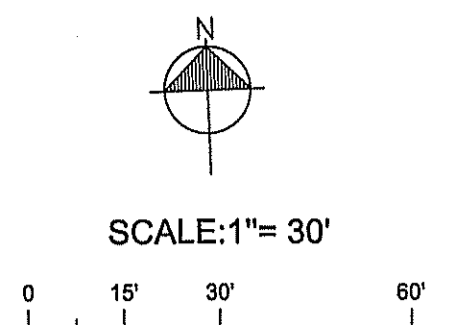
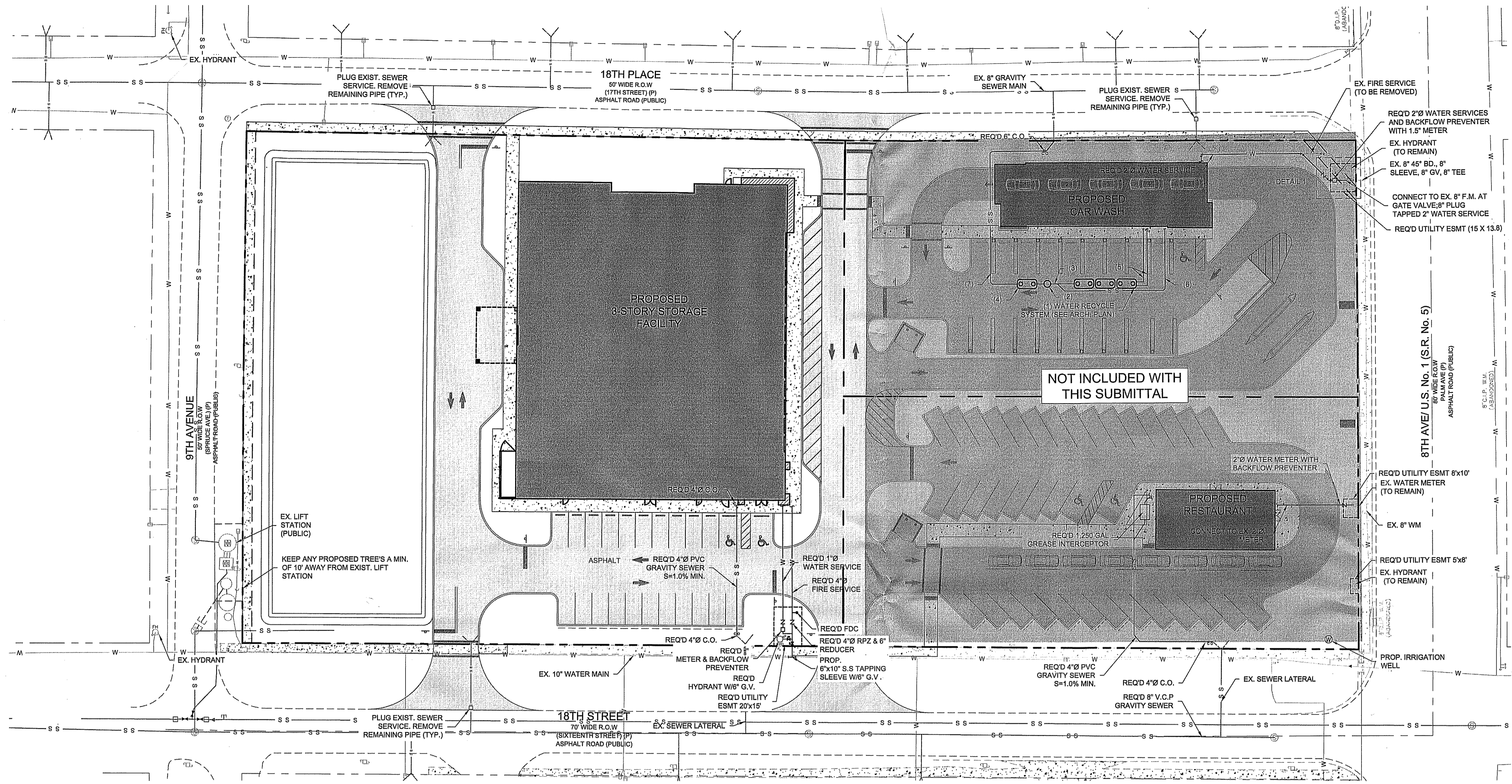


ISSUE	DATE	COMMENTS
1	10-11-23	FIRE COMMENTS

PROJ. NO.	21-3530
DATE	7/12/22
SHEET NO.	C-5A
APPROVED BY	JWM
CHECKED BY	JWM
DRAWN BY	WBD
SCALE:	N/A





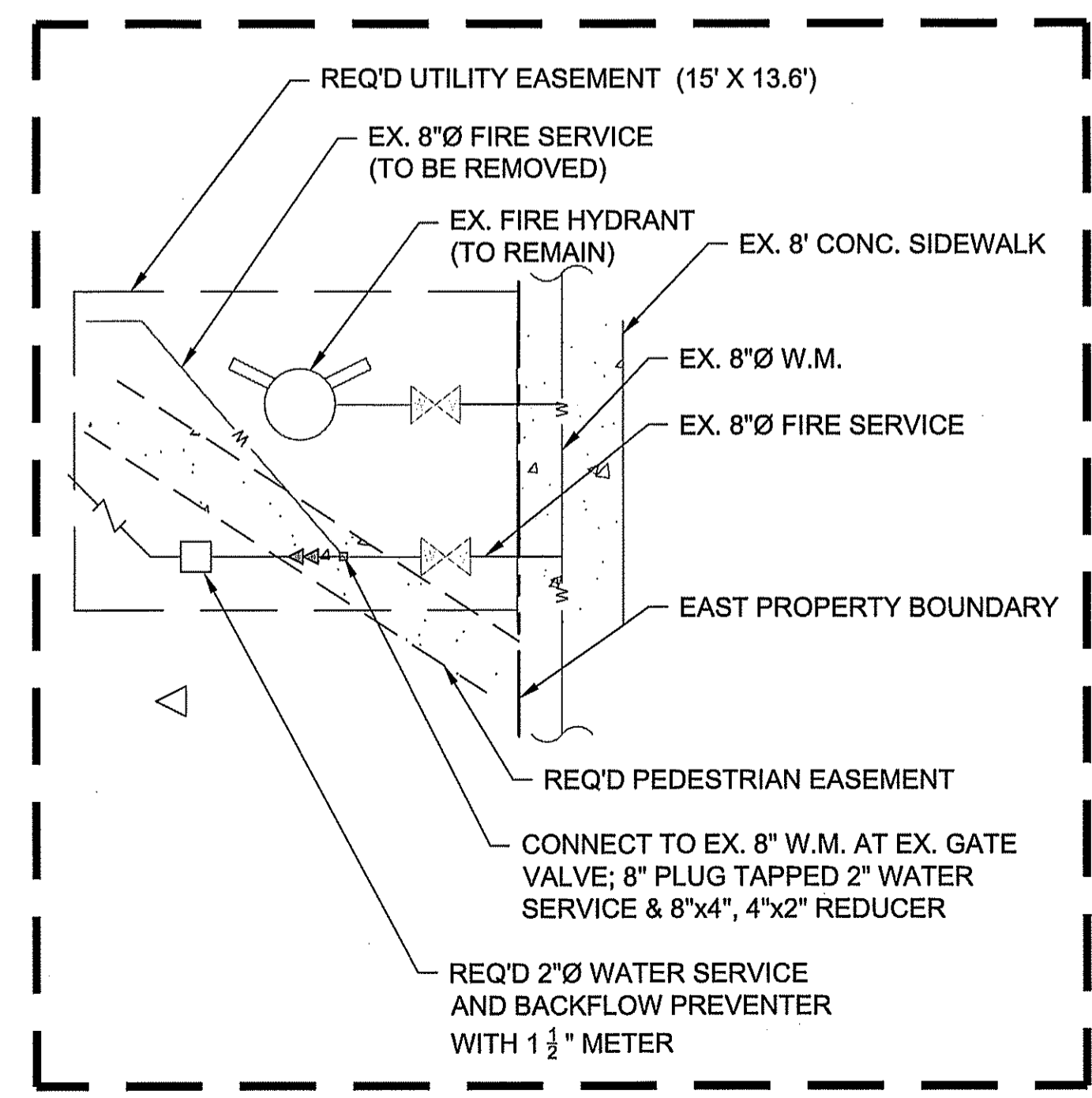


**UTILITY NOTES:**

- THE CITY OF VERO BEACH WATER AND SEWER DEPARTMENT REQUESTS THAT ALL ACCESS TO ALL WATER AND SEWER VALVES, SANITARY SEWER MANHOLES AND OTHER MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES.
  - CONTRACTOR TO PERFORM LOCATES AND COORDINATE WITH THE ENGINEER OF RECORD AND THE CITY OF VERO BEACH UTILITY DEPARTMENT IF ANY CONFLICTS ARE ENCOUNTERED DURING CONSTRUCTION.
  - NO FIRE SERVICE IS REQUIRED OR PROVIDED TO THIS PROJECT.
  - NO EXISTING SEWER SERVICE ON THE SITE PROPERTY, A PRIVATE LIFT STATION WILL BE CONSTRUCTED AND CONNECTED TO AN EXISTING, RELOCATED, 4" FORCE MAIN.
  - THE EXISTING WATER METER IS TO REMAIN AND THE PLUMBER IS TO CONFIRM THE EXISTENCE OF A RPZ. IF ONE DOES NOT EXIST THEN ONE WILL BE ADDED TO THE SERVICE BEYOND THE METER.
- BEFORE PROJECT IS COMPLETED AND ACCEPTED:
- THE WATER SERVICE AND PROPOSED SANITARY FORCE MAIN WILL NEED TO BE TESTED AND CERTIFIED. THE CERTIFICATION DOCUMENTATION MUST BE SUBMITTED TO THE WATER & SEWER DEPT.
  - FINAL RELEASES OF LIENS FROM CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS.
  - WARRANTY OF MATERIAL AND LABOR FOR ONE YEAR.
  - BILL OF SALE FOR THE CONSTRUCTED FACILITIES.
  - CERTIFICATION OF ENGINEER OF RECORD AS TO COMPLIANCE OF THE WORK WITH THE APPROVED PLANS.
  - TWO (2) COPIES OF THE SIGNED AND SEALED RECORD DRAWINGS, ONE (1) PDF OF THE SAME, AND AN AUTOCAD DRAWING ON A CD. SEE "RECORD DRAWING REQUIREMENTS".
  - 15' UTILITY EASEMENTS ARE REQUIRED FOR THE RELOCATED FORCE MAIN WHERE THEY ARE NOT LOCATED IN THE EXISTING UTILITY EASEMENTS.

**LEGEND:**

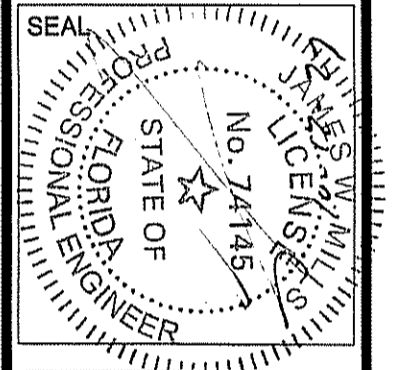
- THREE (3) 2,000 GAL RECLAIM TANKS  
TOP EL. = 10.1±  
INV. IN EL. = 7.38±  
INV. OUT EL. = 7.03±
- SAND AND MUD TRAP  
TOP EL. = 10.1±  
INV. IN EL. = 6.0±  
INV. OUT EL. = 5.75±
- 13 L.F. 6" PVC @ 1.0% SLOPE  
TOP EL. = 10.1±  
INV. IN EL. = 4.65±  
INV. OUT EL. = 5.3±
- REQ'D 750 GAL OIL/WATER SEPARATOR  
TOP EL. = 10.1±  
INV. IN EL. = 4.65±  
INV. OUT EL. = 5.3±
- TWO (2) 30 L.F. 6" PVC WASH LINES FROM BUILDING @ 1.0% SLOPE
- 6"Ø, 86 L.F. PVC SANITARY SEWER @ 1.0% SLOPE
- 6"Ø, 114 L.F. PVC SANITARY SEWER @ 1.0% SLOPE



DETAIL 1:  
N.T.S.

**Mills, Short & Associates**

PHONE: 772.226.7282 C.A.#: 30698  
700 22nd Place, Suite 202D  
Vero Beach, Florida 32960  
WEBSITE: www.MillsShortAssociates.com



ISSUE	DATE	COMMENTS
A	10.11.23	FIRE COMMENTS

**VYBE INVESTMENT VERO BEACH DEVELOPMENT**  
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960

APPROVED BY: JWM  
CHECKED BY: JWM  
DRAWN BY: WBD

SCALE: 1"=30'

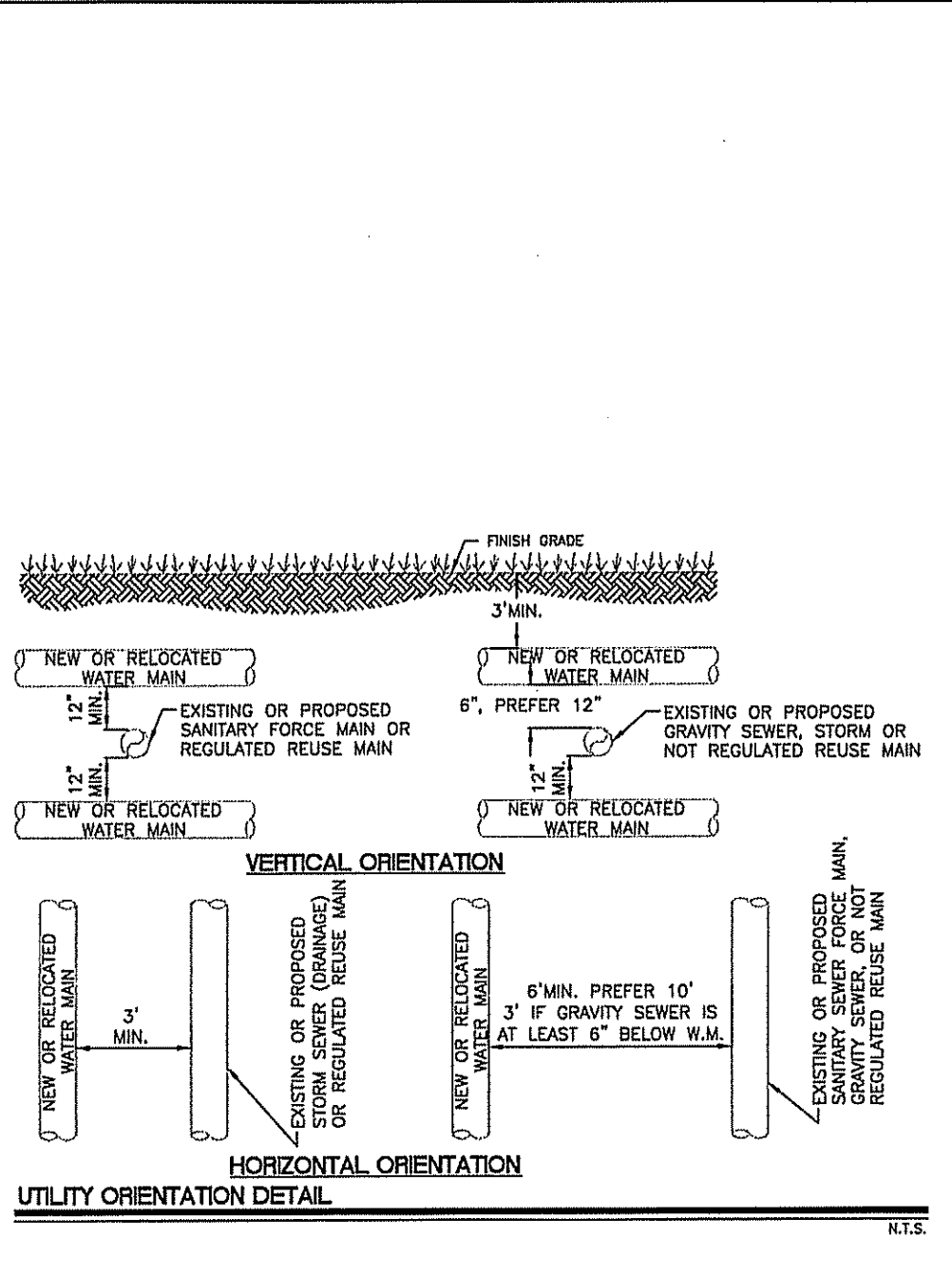
THIS SHEET: UTILITY PLAN

PROJ. NO.	21-3530
DATE	7/12/22
SHEET NO.	

**C-6**







CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	UTILITY ORIENTATION DETAIL AND PIPE ENCASMENT DETAIL	DATE: 7/95	DRAWN BY: T.A.Y.
APPROVED: WS 11	REV: 8/12/2013	DWG. NO. WS 11	PAGE 1 OF 3

62-555.314 Location of Public Water System Mains. For the purpose of this section, the phrase "water mains" shall mean mains, including treatment plant process piping, conveying either raw, partially treated, or finished drinking water; fire hydrant lines; and service lines that are under the control of a public water system and that have an inside diameter of three inches or greater.

(1) Horizontal Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems.

(a) New or relocated, underground water mains shall be held to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, stormwater force main, or pipeline conveying reclaimed water regulated under Part II of Chapter 62-810, F.A.C.

(b) New or relocated, underground water mains shall be held to provide a horizontal distance of at least three feet and preferably ten feet, between the outside of the water main and the outside of any existing or proposed vacuum-type sanitary sewer.

(c) New or relocated, underground water mains shall be held to provide a horizontal distance of at least six feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed gravity-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water regulated under Part II of Chapter 62-810, F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is at least six inches above the top of the sewer.

(d) New or relocated, underground water mains shall be held to provide a horizontal distance of at least ten feet between the outside of the water main and all parts of any existing or proposed "on-site sewage treatment and disposal system" as defined in Section 381.006(2), F.S., and Rule 64E-6.002, F.A.C.

(2) Vertical Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, and Reclaimed Water Pipelines.

(a) New or relocated, underground water mains creating any existing or proposed gravity- or vacuum-type sanitary sewer or storm sewer shall be held so the outside of the water main is at least six inches, and preferably 12 inches, above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.

(b) New or relocated, underground water mains creating any existing or proposed pressure-type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water shall be held so the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.

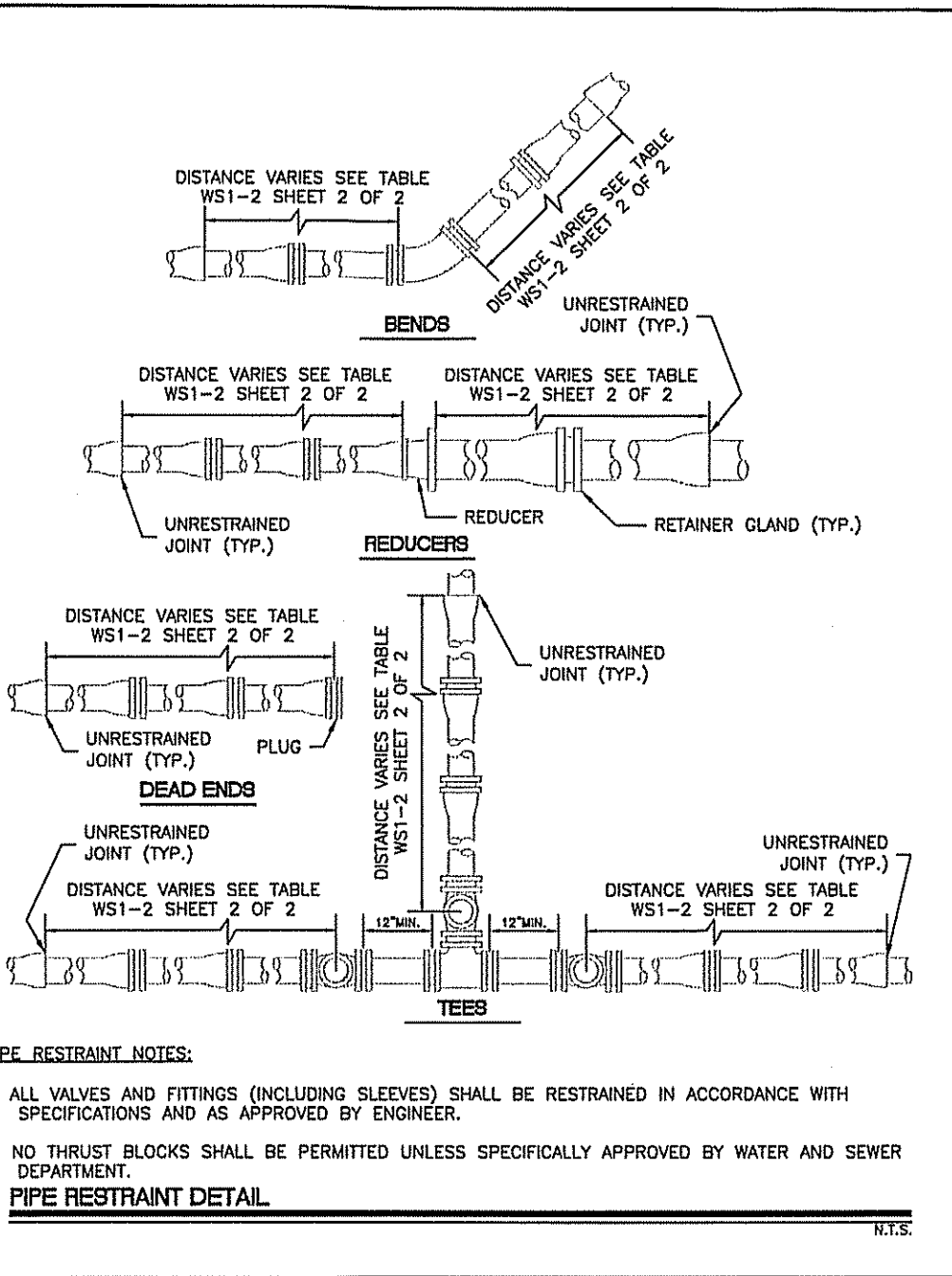
(c) At the utility crossings described in paragraphs (a) and (b) above, one full length of water main pipe shall be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline. Alternatively, the water main joints shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, stormwater force mains, stormwater force mains conveying reclaimed water regulated under Part II of Chapter 62-810, F.A.C., or at least six feet from all joints in gravity-type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part II of Chapter 62-810, F.A.C., and at least ten feet from any existing or proposed "on-site sewage treatment and disposal system" as defined in Section 381.006(2), F.S., and Rule 64E-6.002, F.A.C.

(3) Separation Between Water Mains and Sanitary or Storm Sewer Manholes.

(a) No water main shall pass through, or come into contact with, any part of a sanitary sewer manhole.

(4) Separation Between Fire Hydrant Drains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems. New or relocated fire hydrants with underground drains shall be located so that the drains are at least three feet from any existing or proposed storm sewer, stormwater force main, or pipeline conveying reclaimed water regulated under Part II of Chapter 62-810, F.A.C.; at least three feet, and preferably ten feet, from any existing or proposed vacuum-type sanitary sewer of at least six feet, from any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part II of Chapter 62-810, F.A.C.; and at least ten feet from any existing or proposed "on-site sewage treatment and disposal system" as defined in Section 381.006(2), F.S., and Rule 64E-6.002, F.A.C.

CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	UTILITY ORIENTATION DETAIL AND PIPE ENCASMENT DETAIL	DATE: 7/95	DRAWN BY: T.A.Y.
APPROVED: WS 11	REV: 8/12/2013	DWG. NO. WS 11	PAGE 2 OF 3



CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	PIPE RESTRAINT DETAIL	DATE: 10/90	DRAWN BY: T.A.Y.
APPROVED: WS 12	REV: 8/03/2013	DWG. NO. WS 12	PAGE 1 OF 3

FITTINGS	MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTINGS* FOR DUCTILE IRON PIPE ONLY						
	4"	6"	8"	10"	12"	16"	20"
11 1/4" BEND	2	3	4	4	5	6	8
22 1/2" BEND	4	6	7	9	10	13	15
45" BEND	8	12	15	18	21	27	32
90" BEND	20	29	37	44	51	65	77
PLUG/CAP (DEAD ENDS)	42	59	77	93	108	138	166
BRANCH OF TEE (20" TO JOINT)	21	38	55	71	86	116	143

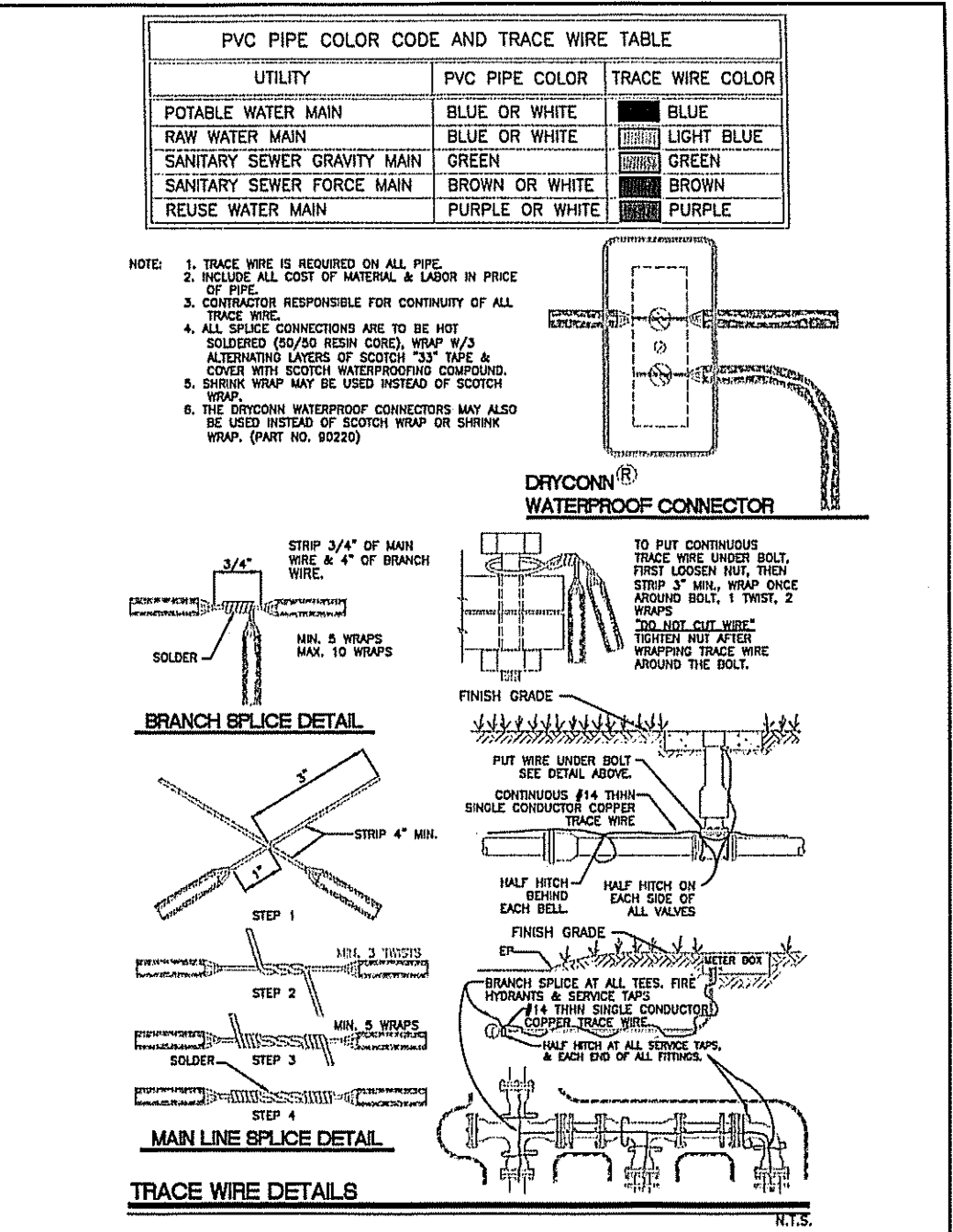
  

FITTINGS	MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTINGS* WILL POLYETHYLENE ENCASMENT AND PVC PIPE						
	4"	6"	8"	10"	12"	16"	20"
11 1/4" BEND	2	3	4	4	5	6	7
22 1/2" BEND	5	7	9	10	12	15	18
45" BEND	10	14	18	21	25	31	37
90" BEND	24	33	43	51	60	76	90
PLUG/CAP (DEAD ENDS)	60	85	110	133	155	198	238
BRANCH OF TEE (20" TO JOINT)	29	54	78	101	123	165	205

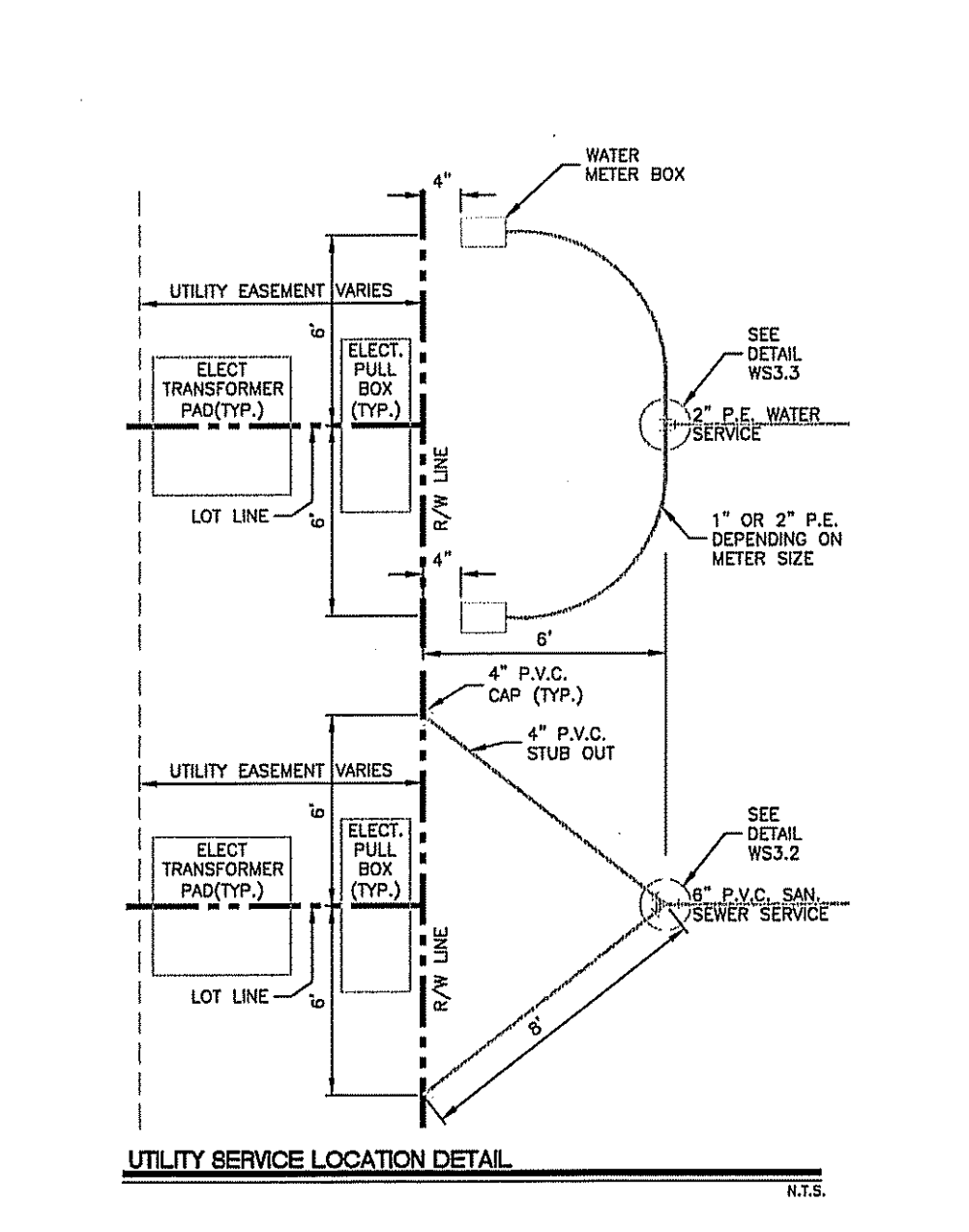
NOTES:

- FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
- INSTALL FULL LENGTH JOINTS WITH LENGTH EQUAL TO GREATER THAN SHOWN IN THE TABLE.
- WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS THE GREATEST LENGTH OF RESTRAINED PIPE.
- IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
- LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:  
WORKING PRESSURE: 150 P.S.I.  
SOIL DESIGNATION: SAND/SILT  
LAYING CONDITION: N/A
- \* BRANCH OF TEE VALUE IS BASED ON A FULL STOCK OF PIPE ON EACH END OF THE THROUGH RUN OF THE TEE. INTERPOLATION BETWEEN THE PLUG VALVE AND TEE VALUE CAN BE MADE PENDING THE LOCATION OF THE FIRST JOINT ON EITHER SIDE OF THE TEE.

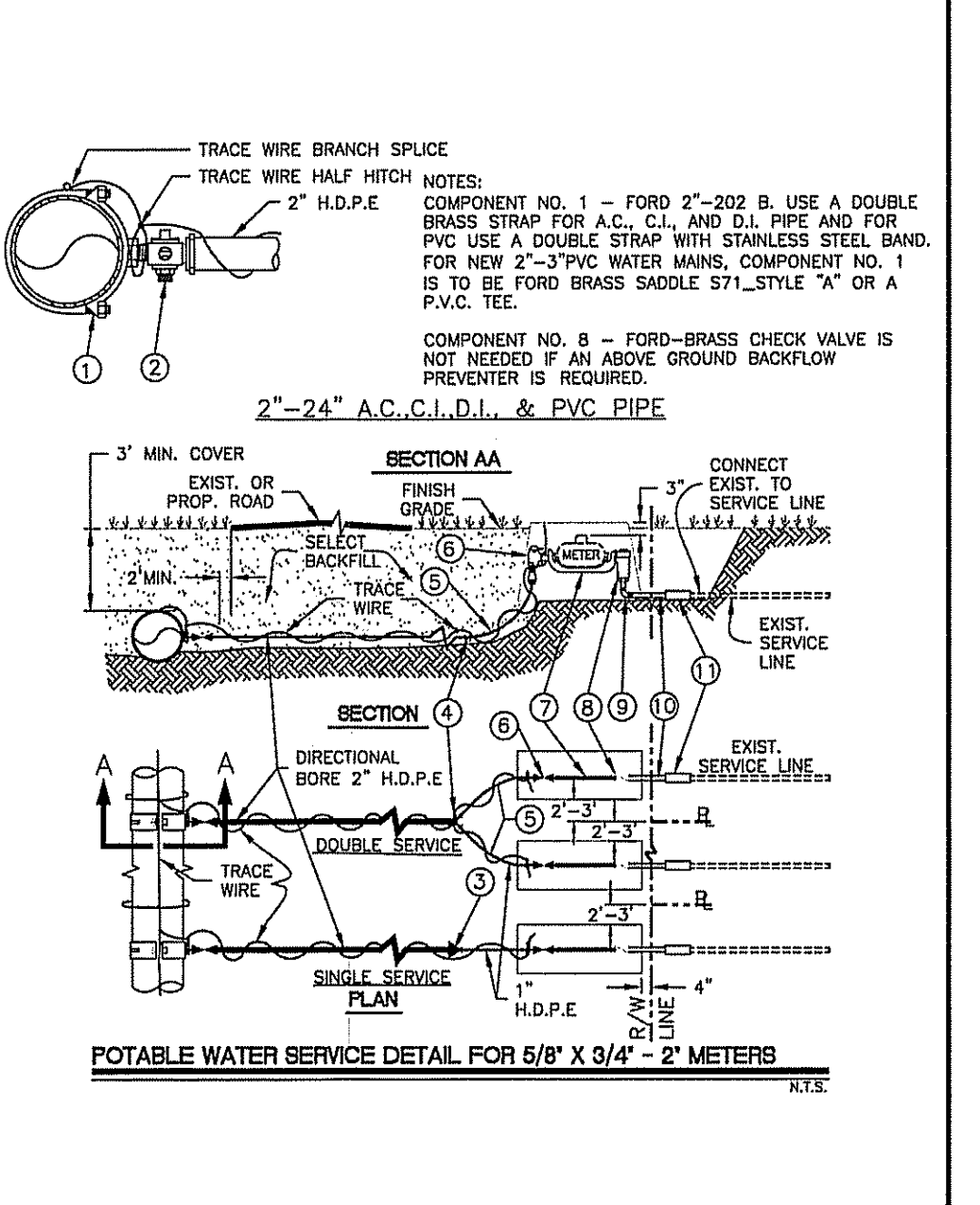
CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	PIPE RESTRAINT TABLE FOR 4-INCH - 20-INCH PIPE DETAIL	DATE: 10/15/01	DRAWN BY: T.A.Y.
APPROVED: WS 12	REV: 8/12/2013	DWG. NO. WS 12	PAGE 2 OF 3



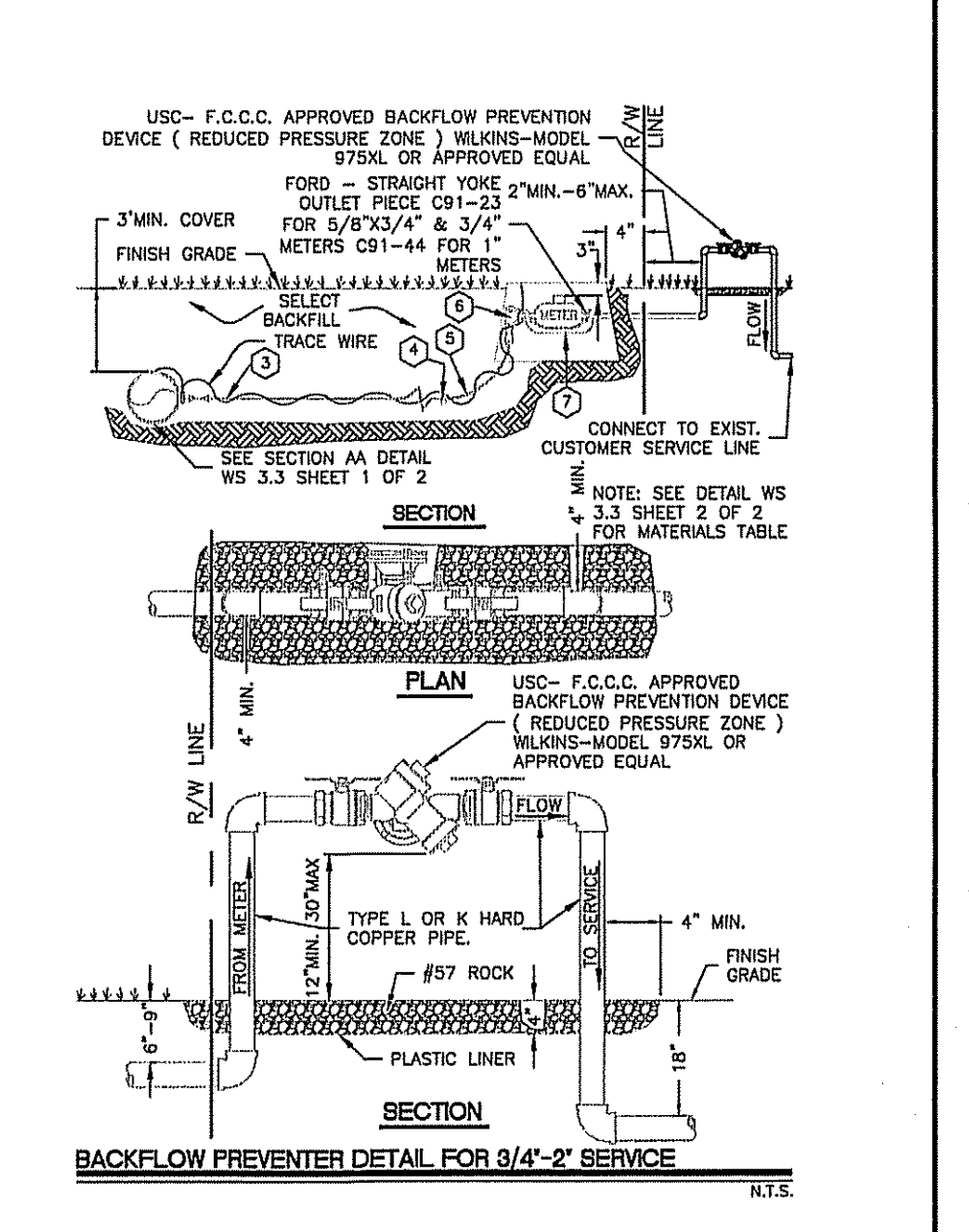
CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	TRACE WIRE DETAIL	DATE: 8/4/87	DRAWN BY: T.A.Y.
APPROVED: WS 14	REV: 10/04/2013	DWG. NO. WS 14	PAGE 1 OF 1



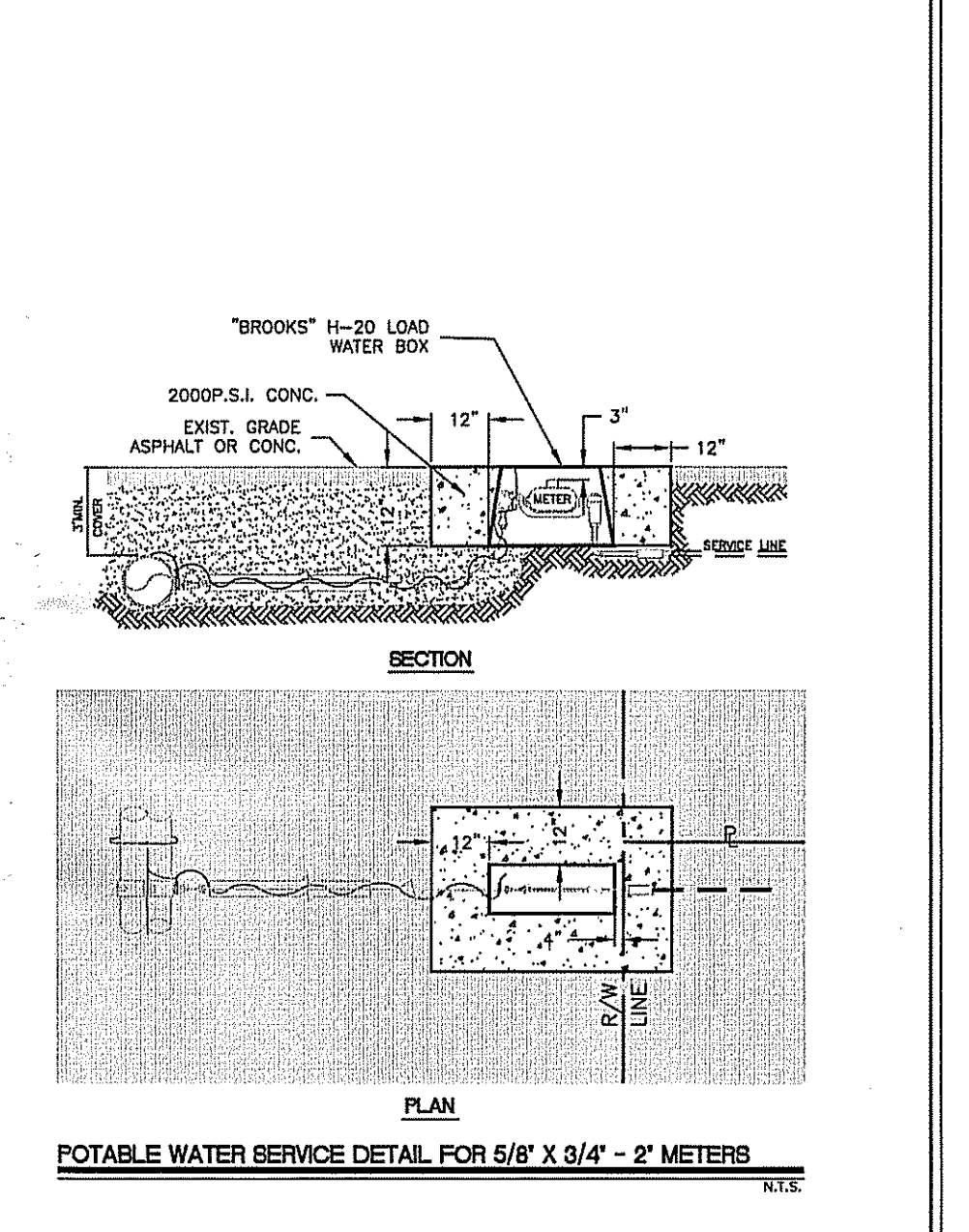
CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	UTILITY SERVICE LOCATION DETAIL	DATE: 8/12/88	DRAWN BY: T.A.Y.
APPROVED: WS 31	REV: 7/06/2013	DWG. NO. WS 31	PAGE 1 OF 1



CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	POTABLE WATER SERVICE DETAIL FOR 5/8" X 3/4" - 2' METERS	DATE: 1/16/90	DRAWN BY: T.A.Y.
APPROVED: WS 33	REV: 8/17/2022	DWG. NO. WS 33	PAGE 1 OF 1



CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	BACKFLOW PREVENTER DETAIL FOR 3/4" - 2' SERVICE	DATE: 12/16/85	DRAWN BY: T.A.Y.
APPROVED: WS 34	REV: 9/06/2013	DWG. NO. WS 34	PAGE 1 OF 1



CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	POTABLE WATER SERVICE DETAIL FOR 5/8" X 3/4" - 2' METERS	DATE: 11/19/90	DRAWN BY: T.A.Y.
APPROVED: CBOX	REV: 9/06/2013	DWG. NO. CBOX	PAGE 1 OF 1

VALVE BOX & FIRE HYDRANT COLOR CODE TABLE	
UTILITY	PAINT COLOR RUST-OLEUM #
POTABLE WATER MAIN VALVES	SAFETY BLUE # 7524402
RAW WATER MAIN VALVES	LIGHT BLUE # 7792402
SANITARY SEWER FORCE MAIN VALVES	HUNTER GREEN # 7738402
REUSE WATER MAIN VALVES	PURPLE # 7792402
FIRE HYDRANTS	SAFETY YELLOW # 7543402
FIRE SERVICES	SAFETY RED # 7564402

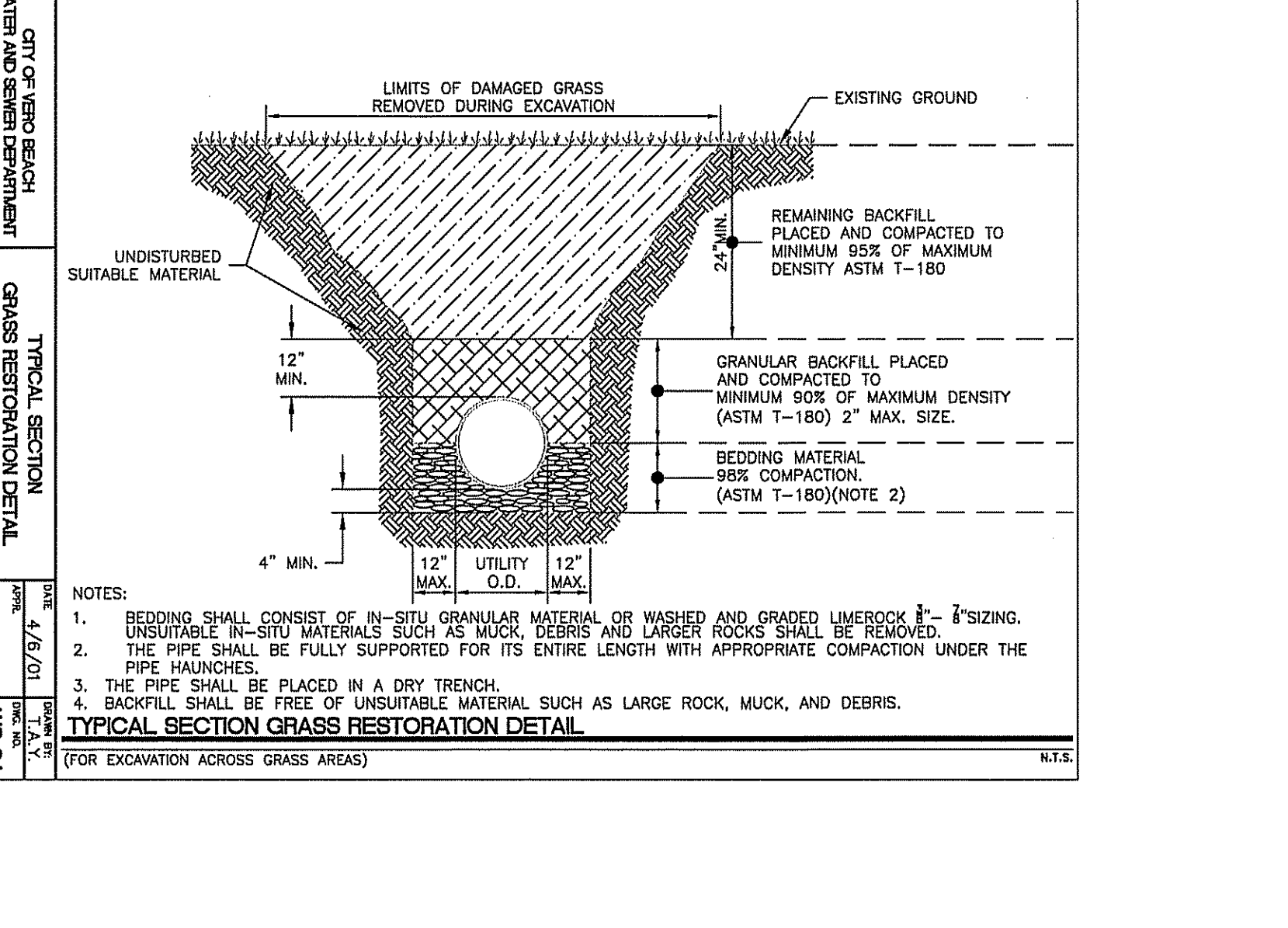
NOTE: PAINT SPEC. RUST-OLEUM HIGH PERFORMANCE PROTECTIVE ENAMEL. (FOR LIGHT BLUE AND PURPLE, GET WHITE AND ADD COLOR). The point #s are for 1 Gallon. Quart #s are different and do not come in oil required colors.

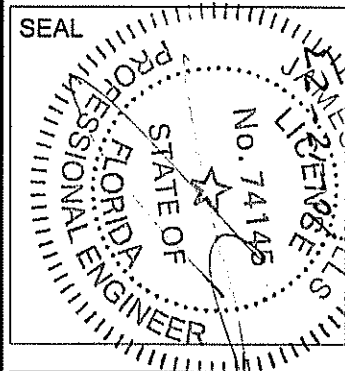
PVC PIPE COLOR CODE AND TRACE WIRE TABLE		
UTILITY	PVC PIPE COLOR	TRACE WIRE COLOR
POTABLE WATER MAIN	BLUE OR WHITE	BLUE
RAW WATER MAIN	BLUE OR WHITE	LIGHT BLUE
SANITARY SEWER GRAVITY MAIN	GREEN	GREEN
SANITARY SEWER FORCE MAIN	BROWN OR WHITE	BROWN
REUSE WATER MAIN	PURPLE OR WHITE	PURPLE

CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	COLOR CODE FOR TRACE WIRE AND PIAINT	DATE: 8/28/06	DRAWN BY: T.A.Y.
APPROVED: WS 19	REV: 7/21/2022	DWG. NO. WS 19	PAGE 1 OF 1

MATERIALS TABLE - POTABLE WATER SERVICE DETAIL FOR 5/8" X 3/4" - 2' METERS										
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	MANUFACTURER	NOTES					
1	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
2	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
3	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
4	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
5	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
6	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
7	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
8	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
9	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
10	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					
11	FORN-BRASS BALL VALVE 1/2" NPT	1	EA	FORN-BRASS	FORN-BRASS BALL VALVE 1/2" NPT					



CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	TYPICAL SECTION GRASS RESTORATION DETAIL	DATE: 4/9/01	DRAWN BY: T.A.Y.
APPROVED: WS 61	REV: 5/17/12	DWG. NO. WS 61	PAGE 1 OF 1



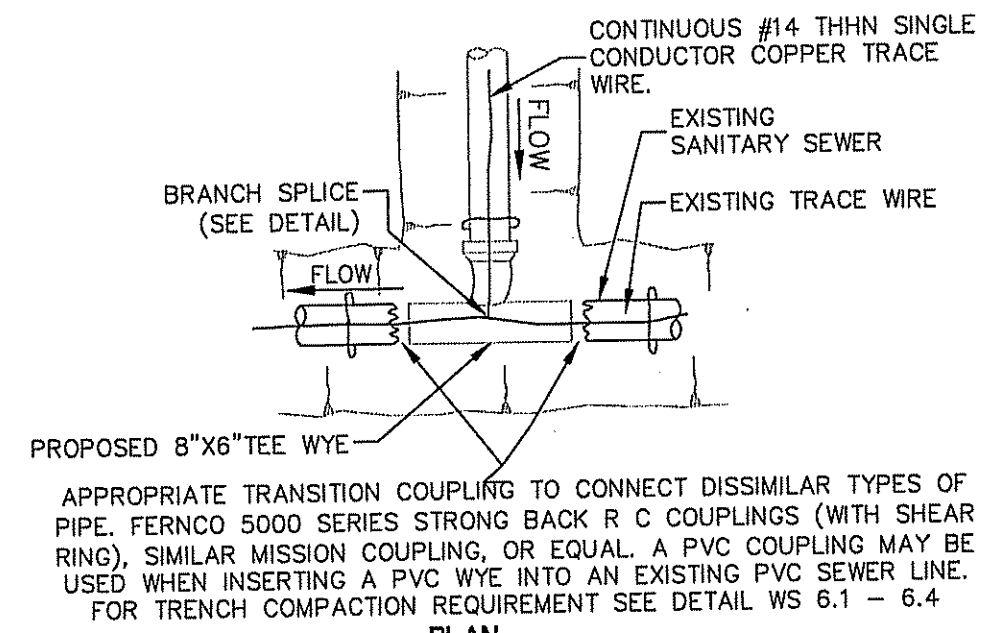
ISSUE	DATE	COMMENTS
A	10.11.23	FIRE COMMENTS

CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	COLOR CODE FOR TRACE WIRE AND PIAINT	DATE: 8/28/06	DRAWN BY: T.A.Y.
APPROVED: WS 19	REV: 7/21/2022	DWG. NO. WS 19	PAGE 1 OF 1

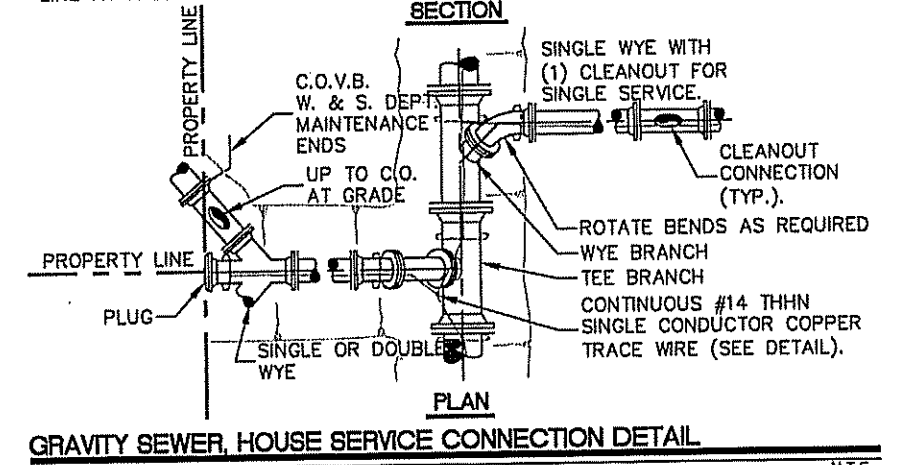
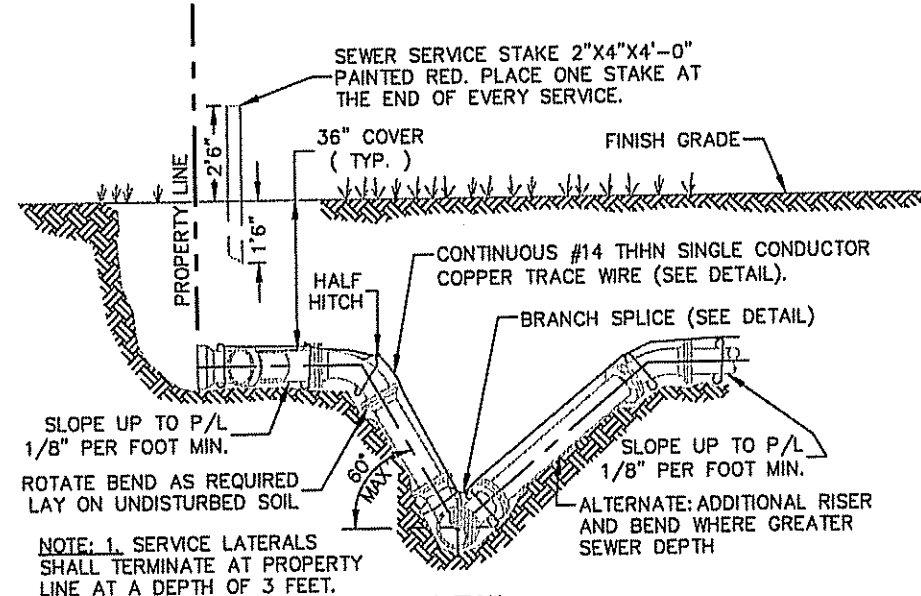
CITY OF VERO BEACH WATER AND SEWER DEPARTMENT ENGINEERING DIVISION	UTILITY DETAILS - WATER	DATE: 7/12/22	DRAWN BY: WBD
APPROVED: JWM	SCALE: N/A	PROJ. NO. 21-3530	
APPROVED: JWM		DATE: 7/12/22	
APPROVED: WBD		SHEET NO. C-7	



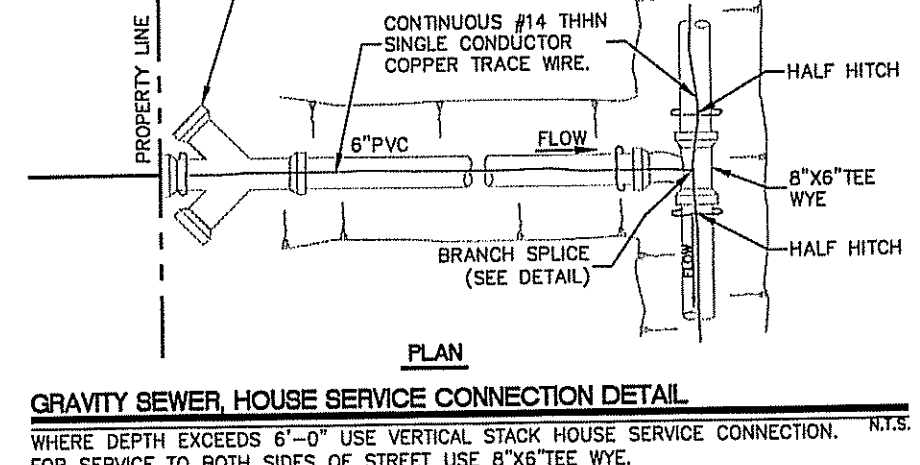
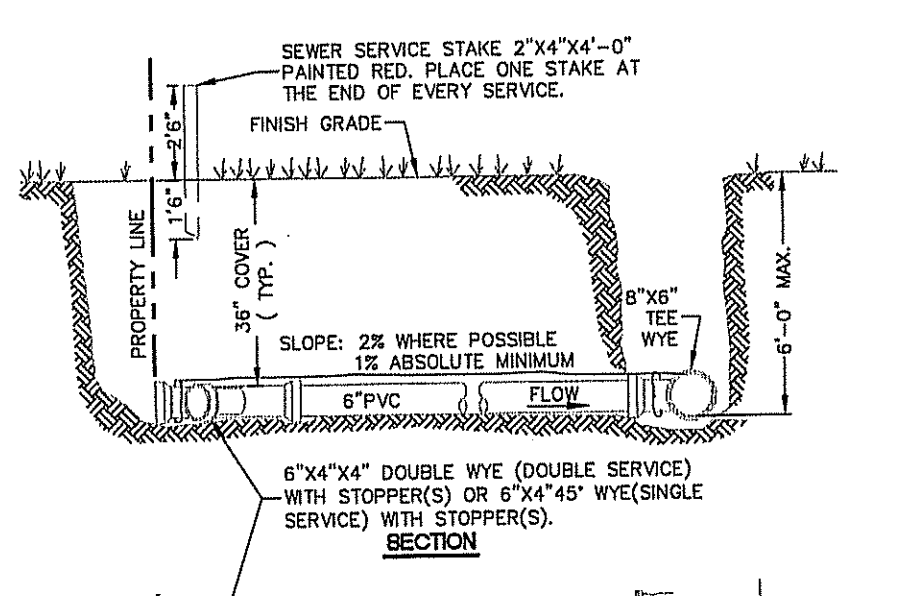




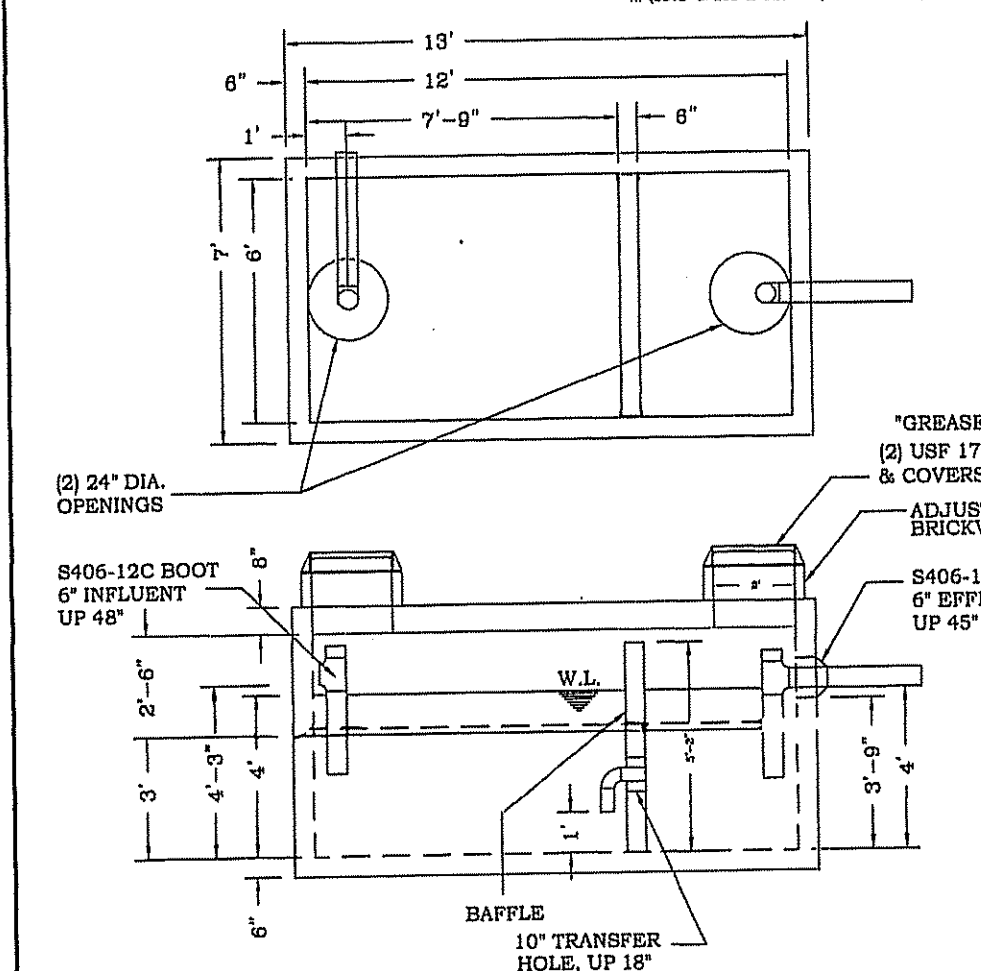
**GRAVITY SEWER, HOUSE SERVICE CONNECTION TO EXISTING SANITARY SEWER MAIN**  
 WHERE DEPTH EXCEEDS 6'-0" USE VERTICAL STACK HOUSE SERVICE CONNECTION. FOR SERVICE TO BOTH SIDES OF STREET USE 8"x6" TEE WYE.



**GRAVITY SEWER, HOUSE SERVICE CONNECTION DETAIL (VERTICAL STACK)**  
 WHERE DEPTH EXCEEDS 6'-0" USE VERTICAL STACK HOUSE SERVICE CONNECTION. N.T.S. FOR SERVICE TO BOTH SIDES OF STREET USE 8"x6" TEE WYE.

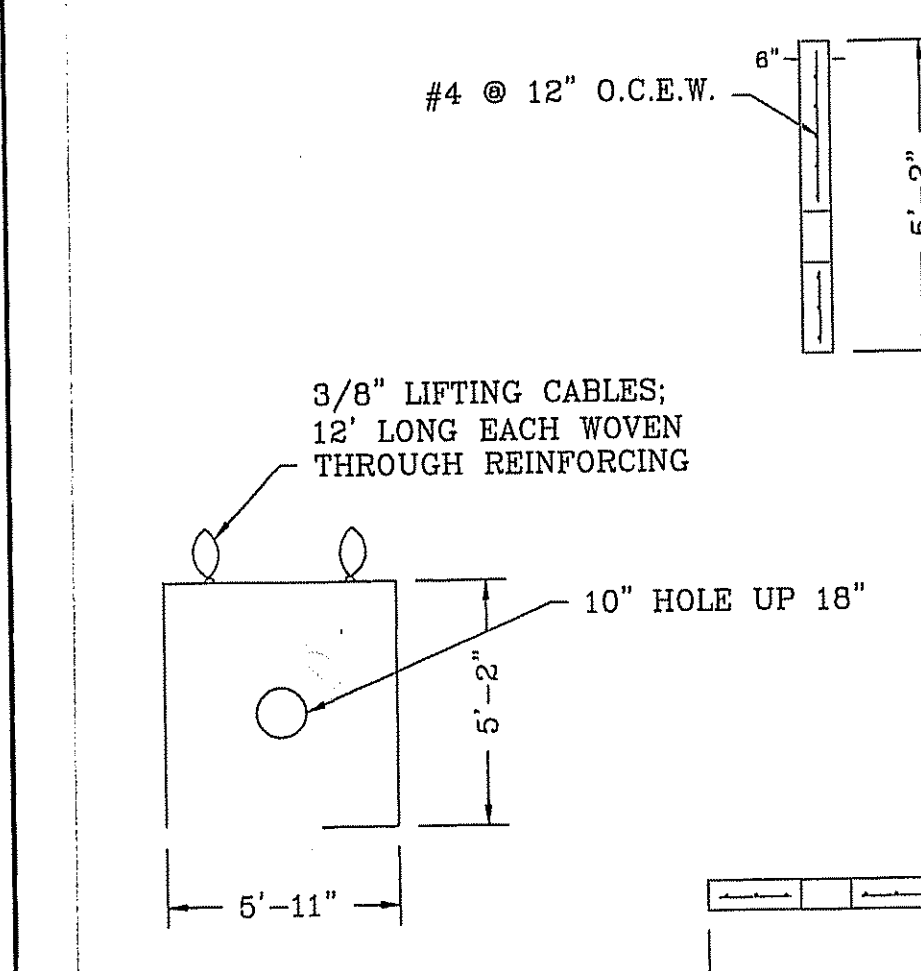


**GRAVITY SEWER, HOUSE SERVICE CONNECTION DETAIL**  
 WHERE DEPTH EXCEEDS 6'-0" USE VERTICAL STACK HOUSE SERVICE CONNECTION. N.T.S. FOR SERVICE TO BOTH SIDES OF STREET USE 8"x6" TEE WYE.



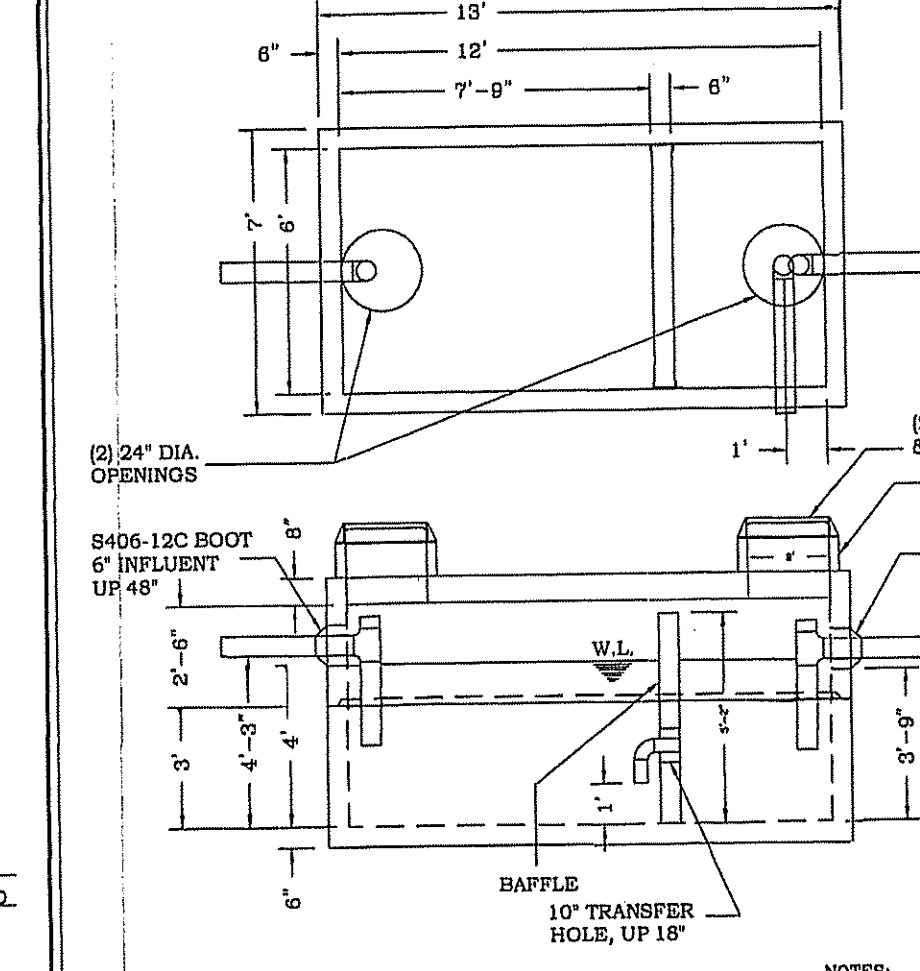
- NOTES:  
 1) TYPE 1/II CEMENT.  
 2) 4000 PSI @ 28 DAYS.  
 3) 65 K.S.I. W.W.M.  
 4) GRADE 60 REBAR.  
 5) TRAFFIC RATED  
 6) CONCREAL CS-102B PER ASTM C-900  
 7) NFC BOOTS PER ASTM C-925

WEIGHTS: BASE= 15,375 lbs. TOP=16,275 lbs.	<b>MACK CONCRETE IND.</b> P.O. BOX 157 ASTATULA, FLORIDA 34705	<b>DESCRIPTION:</b> 6' x 12' BASE (6" WALL) 2,000 GAL. RECLAIM TANK
CUSTOMER:	DATE:	STR. #: RC-1
PROJECT:	DRAWN BY:	JOB #:



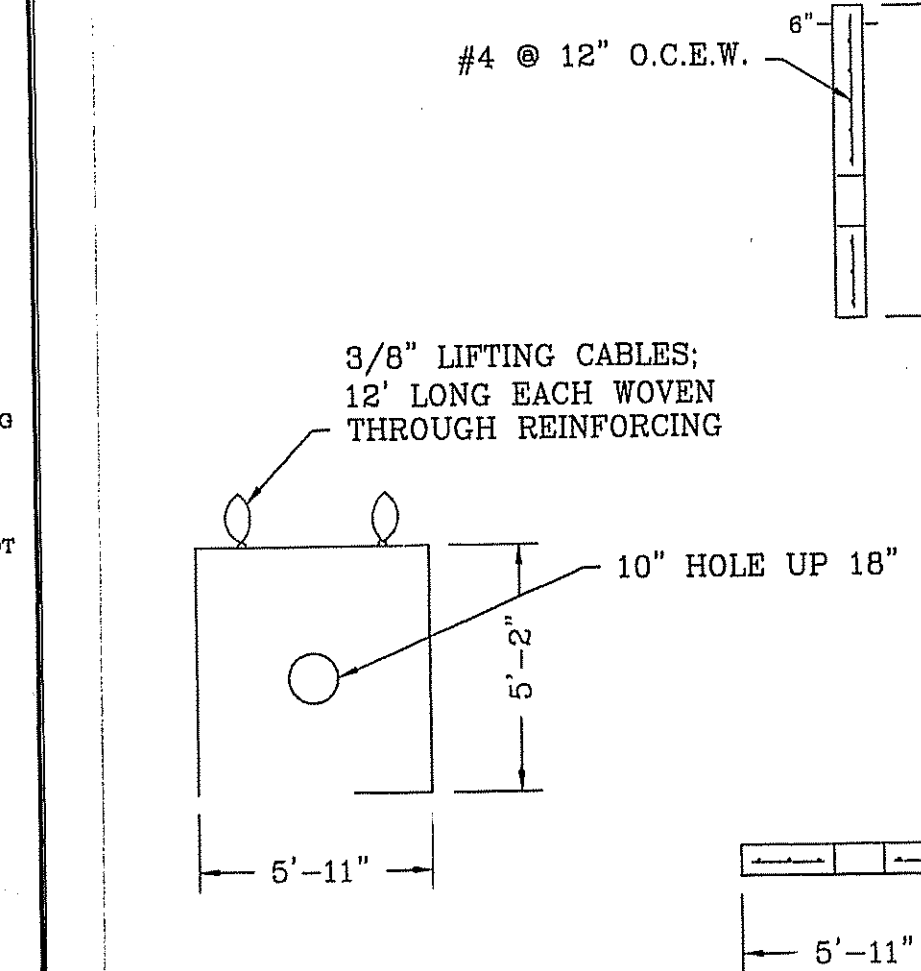
- NOTES:  
 1) TYPE 1/II CEMENT.  
 2) 4000 PSI @ 28 DAYS.  
 3) GRADE 60 REBAR.

WEIGHTS: BASE= 15,375 lbs. TOP=16,275 lbs.	<b>MACK CONCRETE IND.</b> P.O. BOX 157 ASTATULA, FLORIDA 34705	<b>DESCRIPTION:</b> 6' x 12' BASE (6" WALL) 2,000 GAL. RECLAIM TANK
CUSTOMER:	DATE:	STR. #: RC-1
PROJECT:	DRAWN BY:	JOB #:



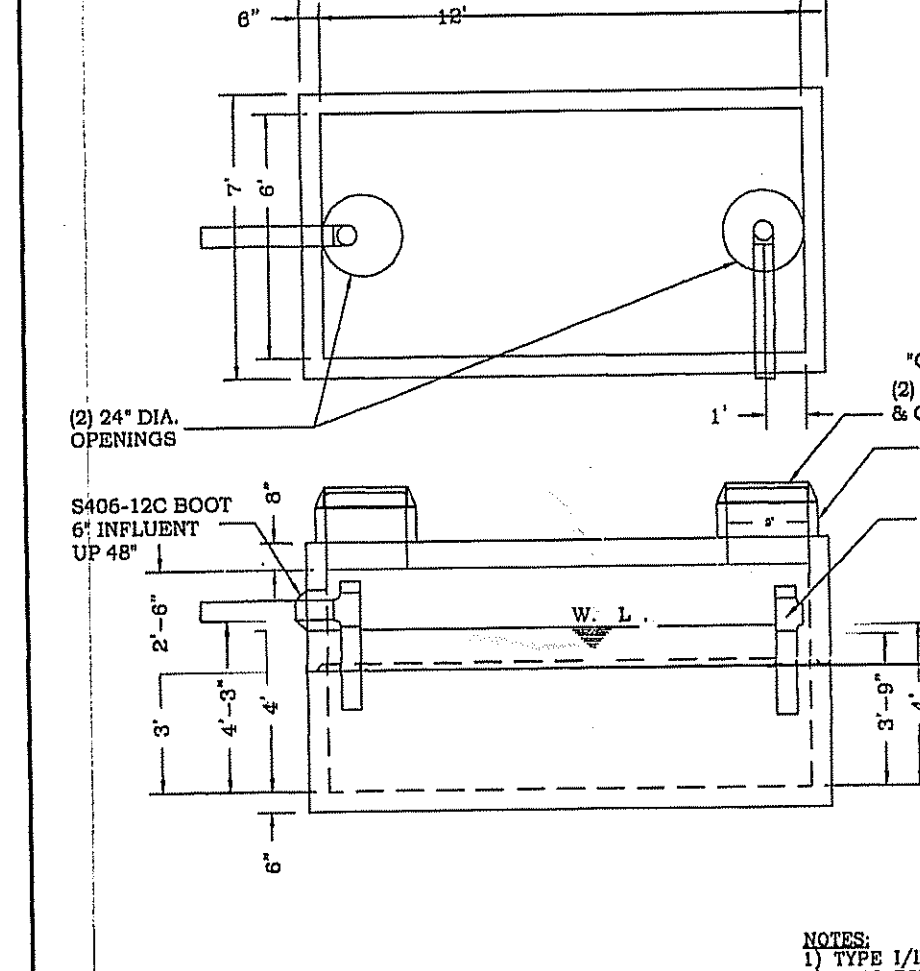
- NOTES:  
 1) TYPE 1/II CEMENT.  
 2) 4000 PSI @ 28 DAYS.  
 3) 65 K.S.I. W.W.M.  
 4) GRADE 60 REBAR.  
 5) TRAFFIC RATED  
 6) CONCREAL CS-102B PER ASTM C-900  
 7) NFC BOOTS PER ASTM C-925

WEIGHTS: BASE= 15,375 lbs. TOP=16,275 lbs.	<b>MACK CONCRETE IND.</b> P.O. BOX 157 ASTATULA, FLORIDA 34705	<b>DESCRIPTION:</b> 6' x 12' BASE (6" WALL) 2,000 GAL. RECLAIM TANK
CUSTOMER:	DATE:	STR. #: RC-2
PROJECT:	DRAWN BY:	JOB #:



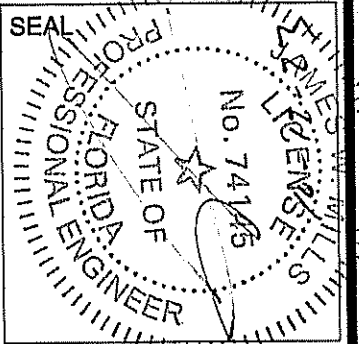
- NOTES:  
 1) TYPE 1/II CEMENT.  
 2) 4000 PSI @ 28 DAYS.  
 3) GRADE 60 REBAR.

WEIGHTS: BASE= 15,375 lbs. TOP=16,275 lbs.	<b>MACK CONCRETE IND.</b> P.O. BOX 157 ASTATULA, FLORIDA 34705	<b>DESCRIPTION:</b> 6' x 12' BASE (6" WALL) 2,000 GAL. RECLAIM TANK
CUSTOMER:	DATE:	STR. #: RC-2
PROJECT:	DRAWN BY:	JOB #:



- NOTES:  
 1) TYPE 1/II CEMENT.  
 2) 4000 PSI @ 28 DAYS.  
 3) 65 K.S.I. W.W.M.  
 4) GRADE 60 REBAR.  
 5) TRAFFIC RATED  
 6) CONCREAL CS-102B PER ASTM C-900  
 7) NFC BOOTS PER ASTM C-925

WEIGHTS: BASE= 15,375 lbs. TOP=16,275 lbs.	<b>MACK CONCRETE IND.</b> P.O. BOX 157 ASTATULA, FLORIDA 34705	<b>DESCRIPTION:</b> 6' x 12' BASE (6" WALL) 2,000 GAL. RECLAIM TANK
CUSTOMER:	DATE:	STR. #: RC-3
PROJECT:	DRAWN BY:	JOB #:



ISSUE	DATE	COMMENTS
A	10.11.23	FIRE COMMENTS

CUSTOMER:	DATE:	STR. #: RC-3
PROJECT:	DRAWN BY:	JOB #:

**VYBE INVESTMENT**  
**VERO BEACH DEVELOPMENT**  
 1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960  
 THIS SHEET: UTILITY DETAILS - SEWER/ RECLAIM WATER  
 DRAWN BY: WBD  
 CHECKED BY: JWM  
 APPROVED BY: JWM  
 SCALE: N/A

PROJ. NO.	21-3530
DATE	7/12/22
SHEET NO.	



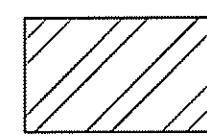
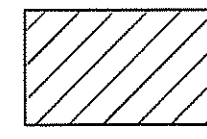
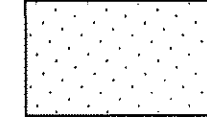



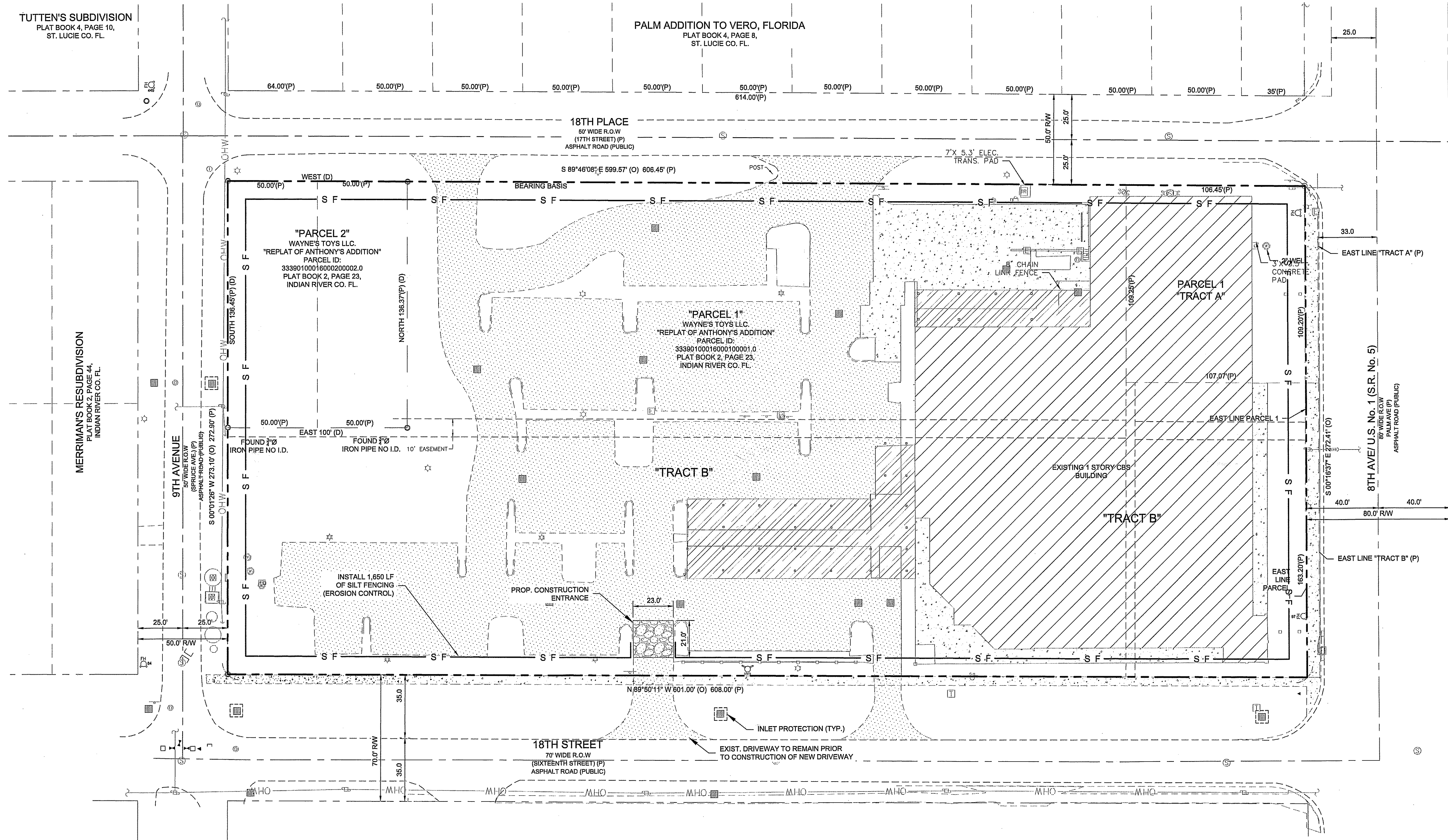
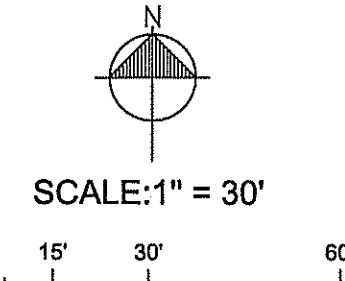


TUTTEN'S SUBDIVISION  
PLAT BOOK 4, PAGE 10,  
ST. LUCIE CO. FL.

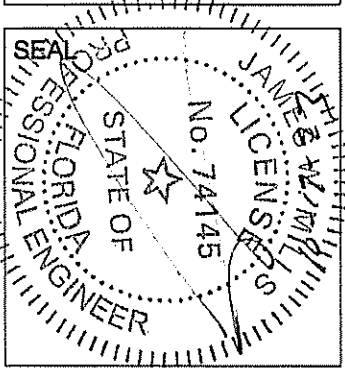
PALM ADDITION TO VERO, FLORIDA  
PLAT BOOK 4, PAGE 8,  
ST. LUCIE CO. FL.

LEGEND:

-  EX. COVERED PARKING
-  EX. BUILDING
-  EX. PAVEMENT
-  EX. CONCRETE



**Mills, Short & Associates**  
 PHONE: 772.226.7282 C.A.#: 30698  
 WEBSITE: www.MillsShortAssociates.com  
 700 22nd Place, Suite 202D  
 Vero Beach, Florida 32980



ISSUE	DATE	COMMENTS
1	10.11.23	FIRE COMMENTS

**VYBE INVESTMENT VERO BEACH DEVELOPMENT**  
 1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960

THIS SHEET: **STORMWATER POLLUTION PREVENTION PLAN**

APPROVED BY: JWM  
 CHECKED BY: JWM  
 DRAWN BY: WBD

SCALE: 1" = 30'

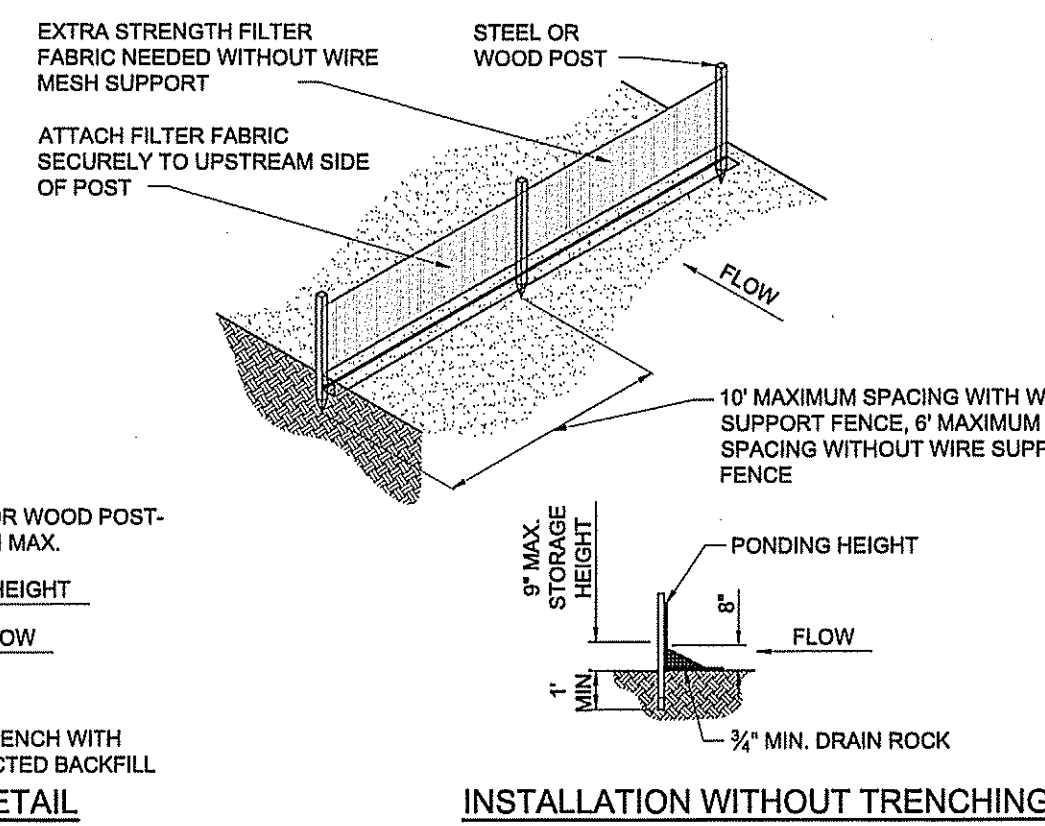
PROJ. NO. 21-3530  
 DATE 7/12/22  
 SHEET NO. C-9



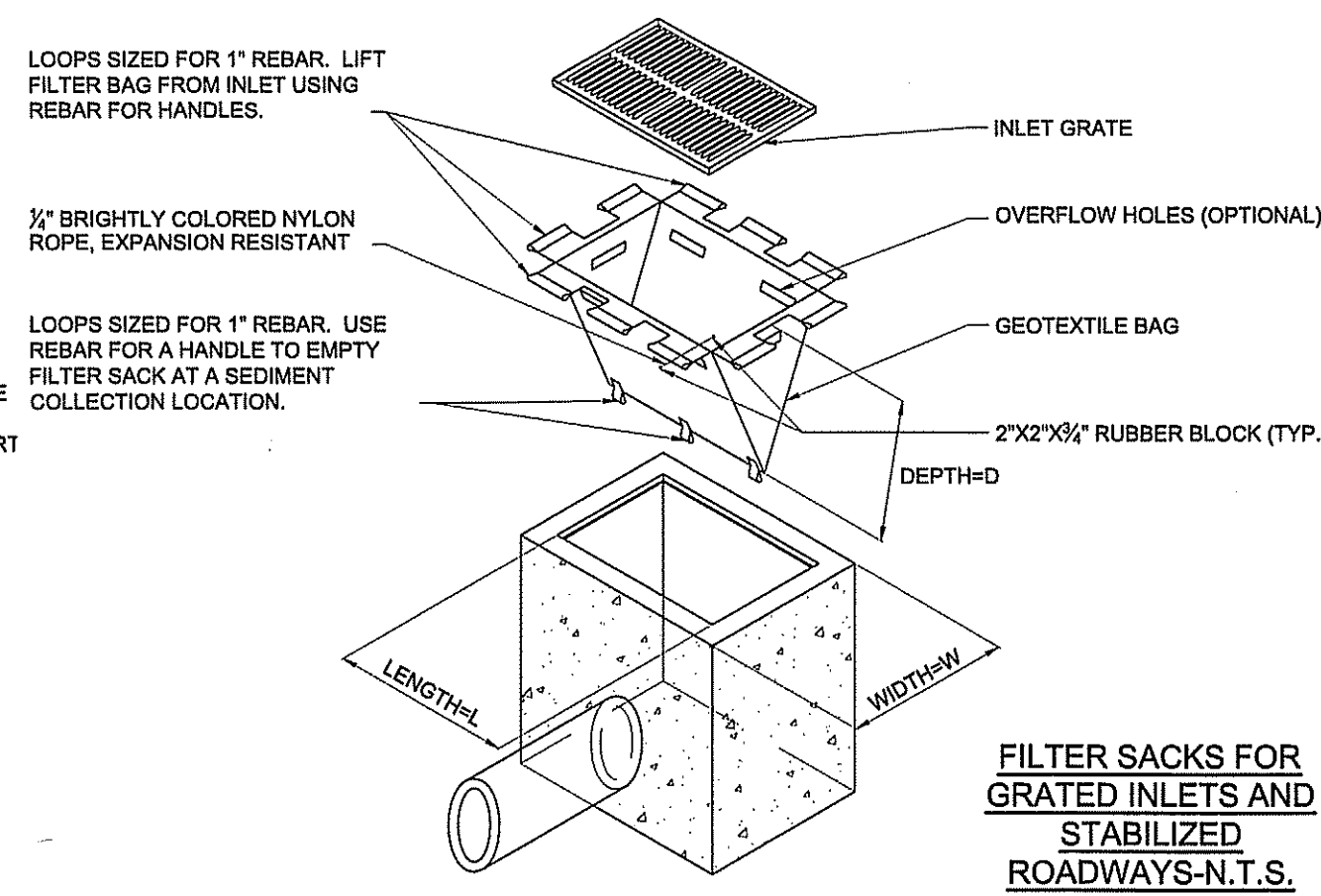
EROSION CONTROL NOTES

- 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 LAND DISTURBANCE TAKES PLACE.
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.
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.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES.
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.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL.
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.
10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED.
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.
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 EXPENSE.
18. NOI TO BE POSTED ON SITE.
19. DEWATERING ACTIVITIES:
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.

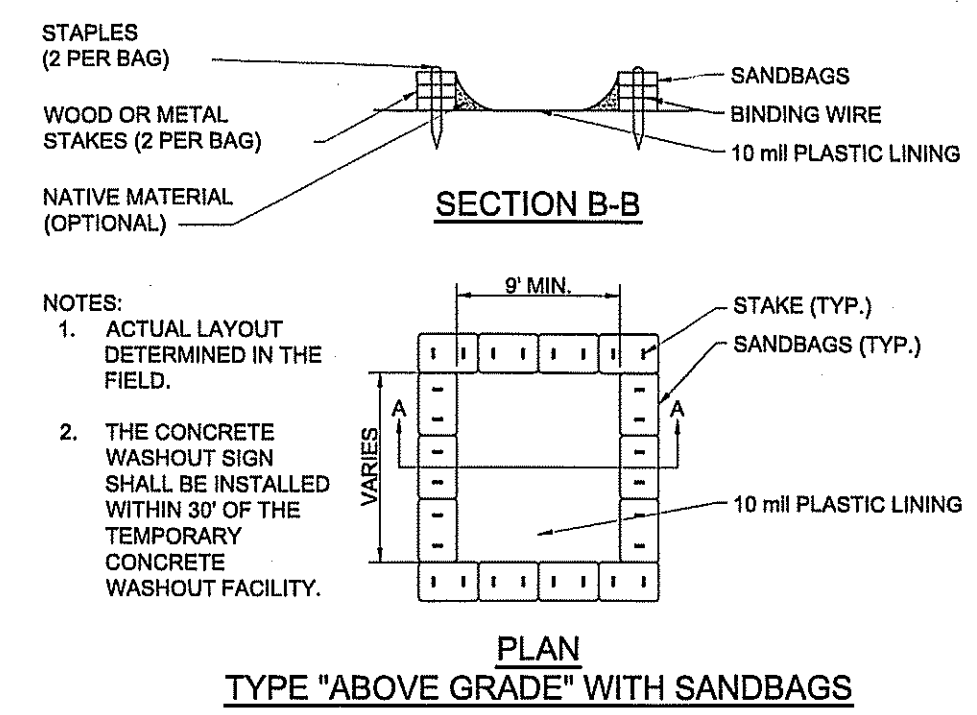
- NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9' MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO THE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



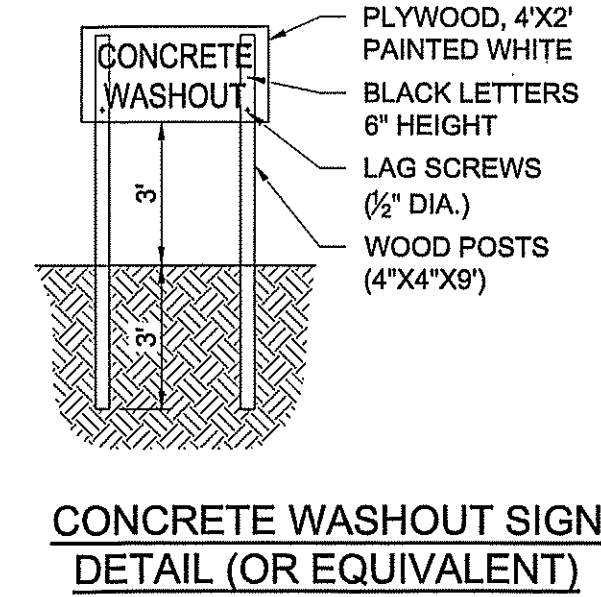
TYPE IV SILT FENCE-N.T.S.



FILTER SACKS FOR GRATED INLETS AND STABILIZED ROADWAYS-N.T.S.

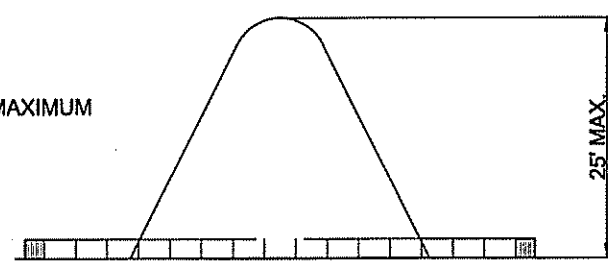


CONCRETE & STUCCO WASTE MANAGEMENT-N.T.S.

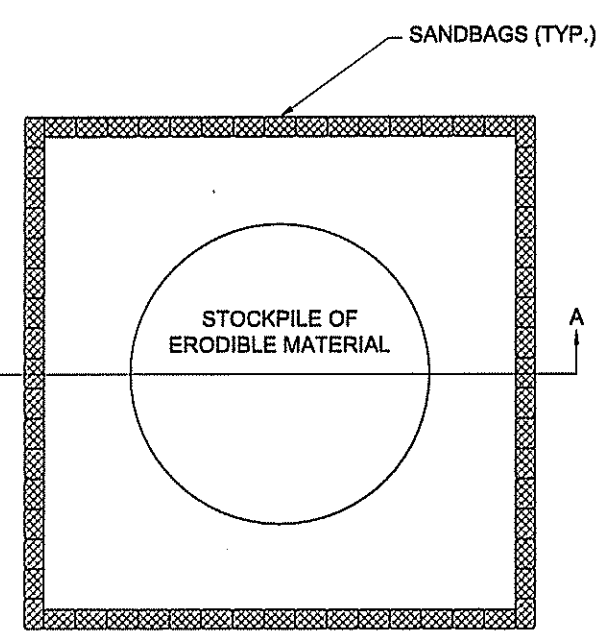


CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTE: ALL STOCKPILES SHALL BE A MAXIMUM OF 25' HIGH.



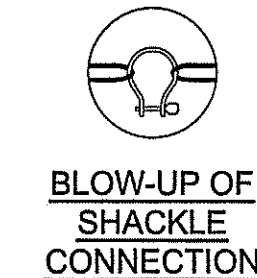
SECTION A-A



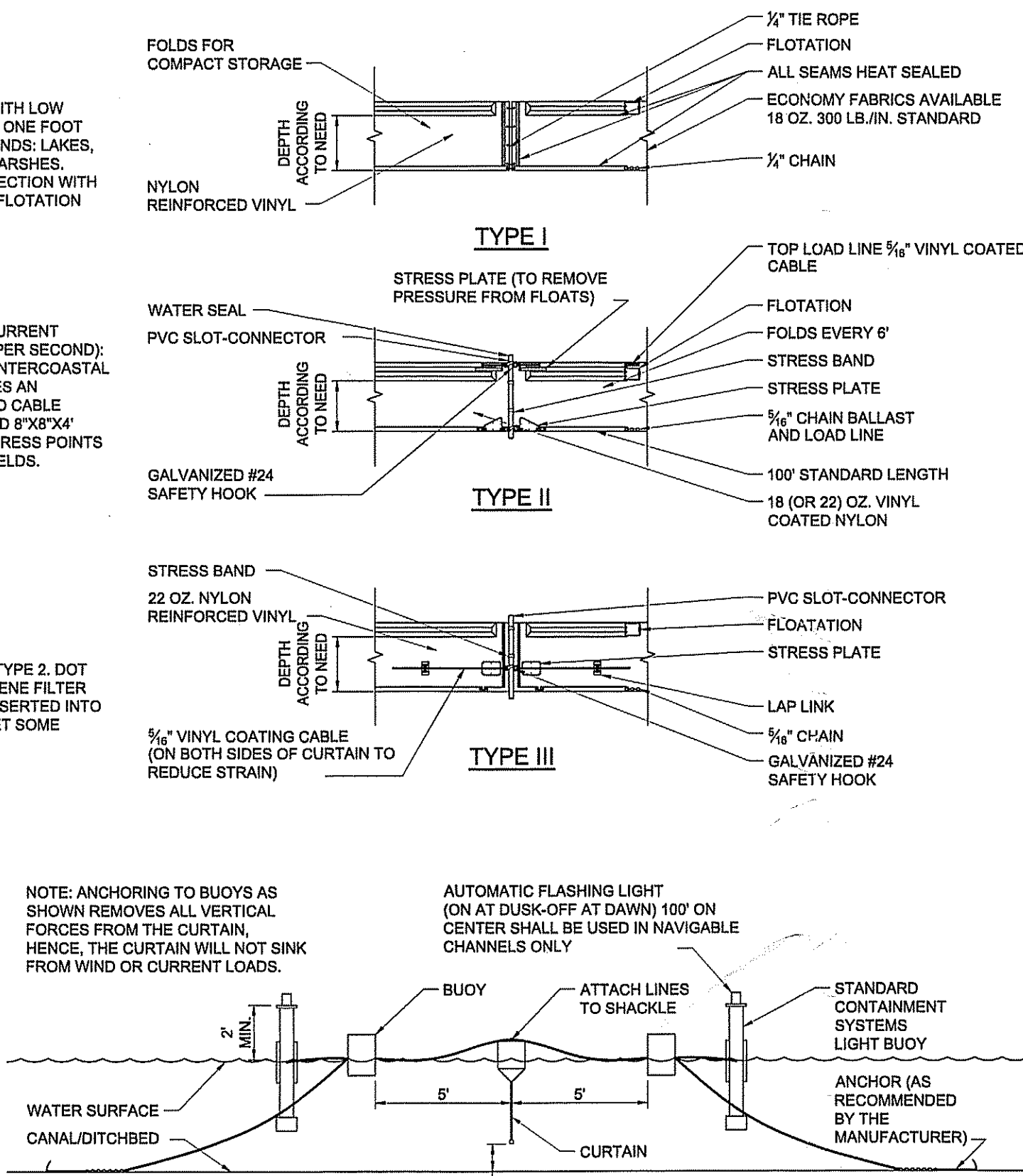
NOTE: FOR STOCKPILING ERODIBLE MATERIAL FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.

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

NOTE: ANCHORING TO BUOYS AS SHOWN REMOVES ALL VERTICAL FORCES FROM THE CURTAIN, HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS.

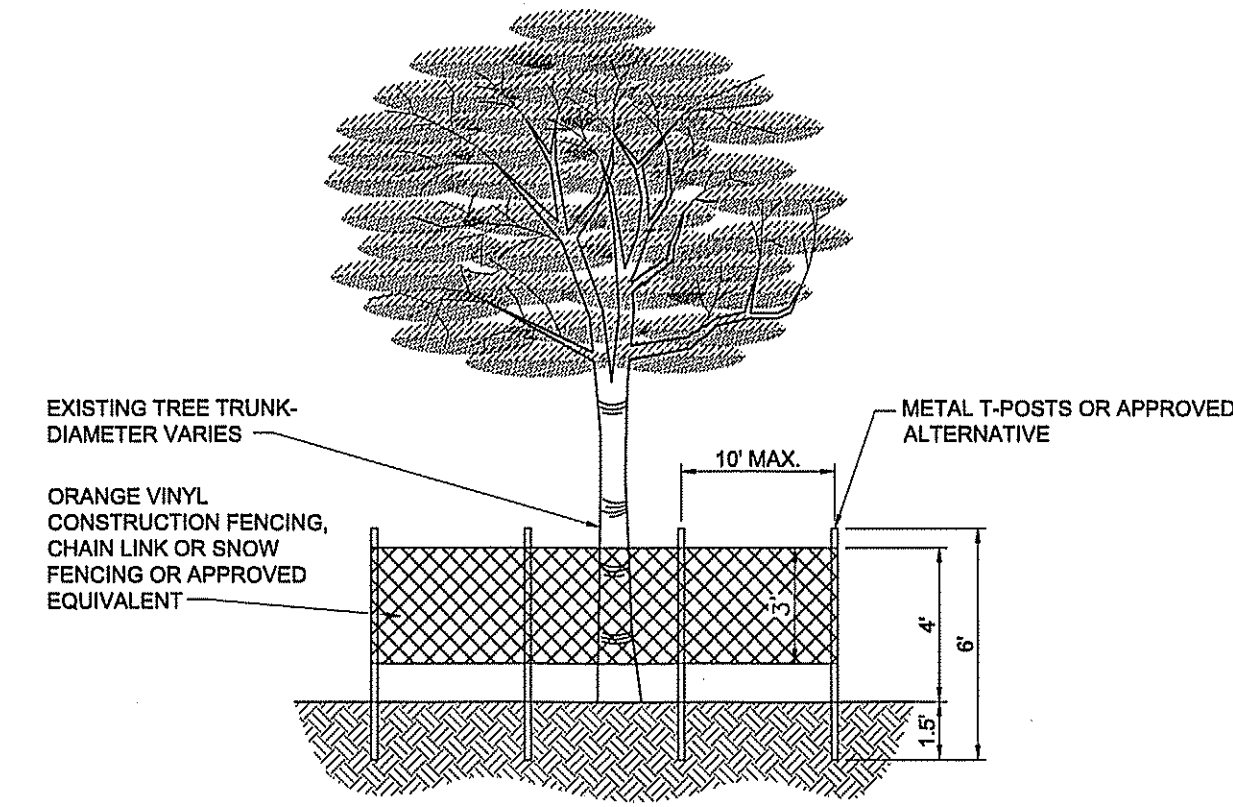


BLOW-UP OF SHACKLE CONNECTION

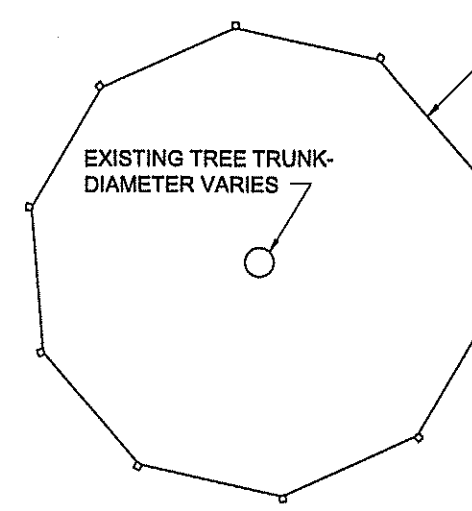


ORIENTATION WHEN INSTALLED (TIDAL SITUATION-TYPE III)-N.T.S.

- NOTES:
1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES.
2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRIFLINE WHERE APPLICABLE.
3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES.
4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TREES OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL BE MAINTAINED DURING CONSTRUCTION.
5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4' TO 6' AROUND TREE. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND.

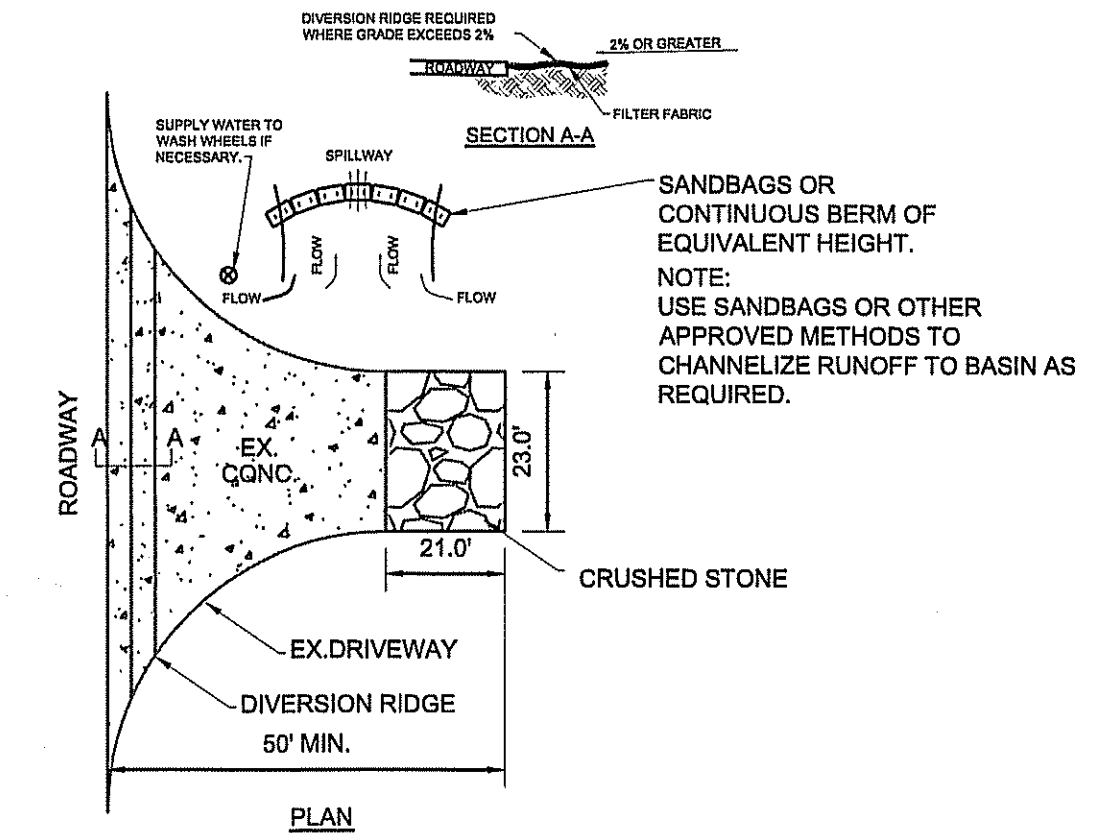


ELEVATION

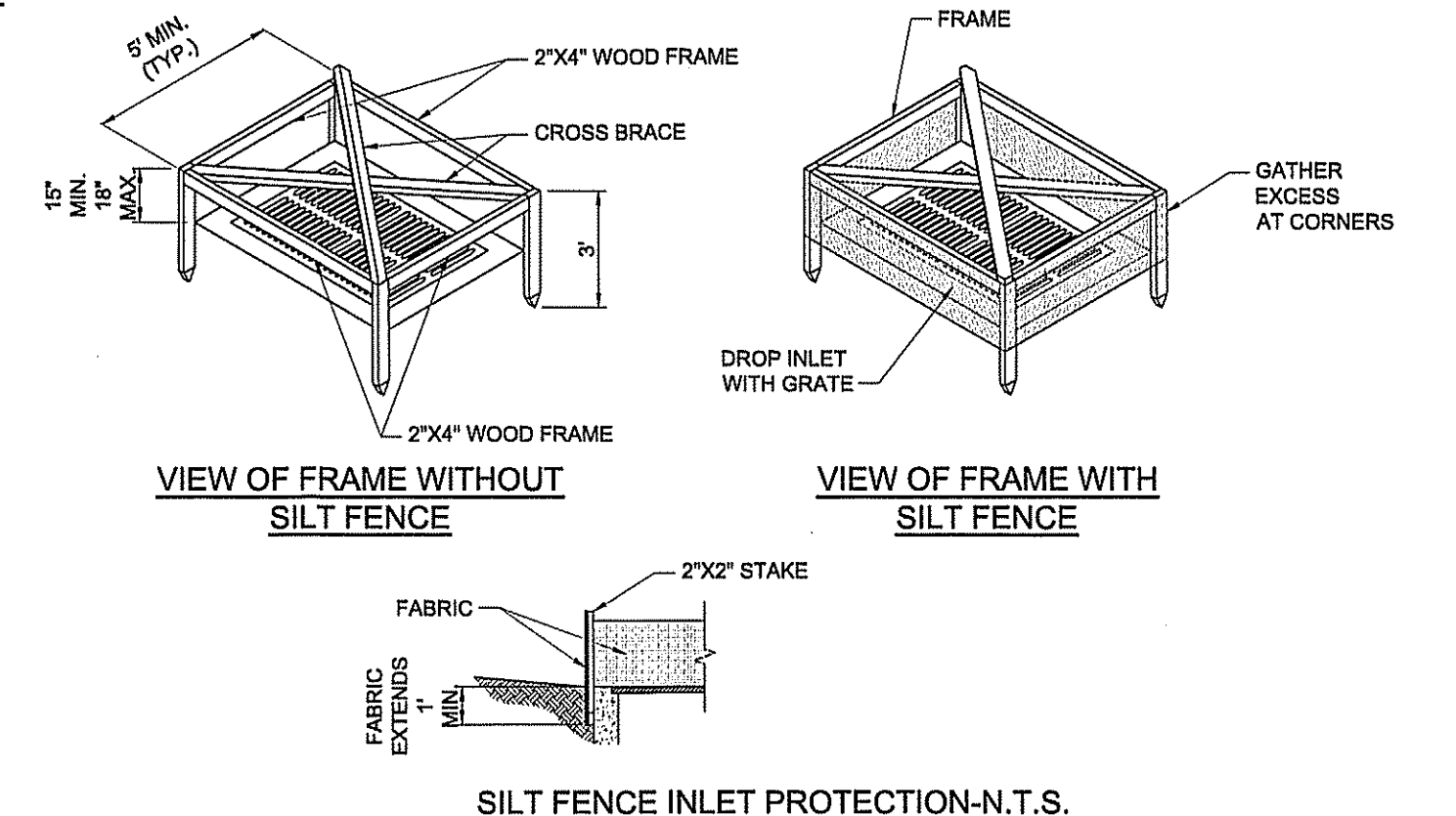


PLAN

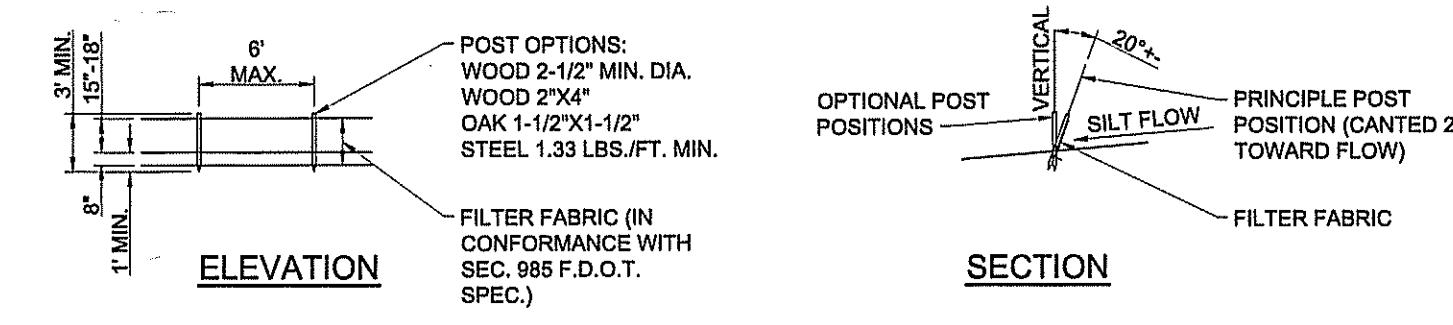
PROTECTIVE FENCING FOR TREES-N.T.S.



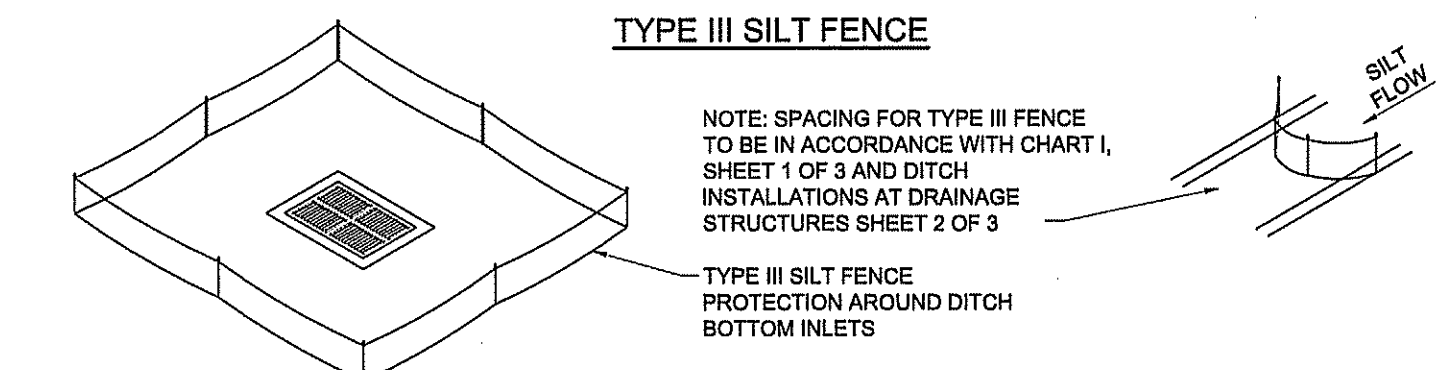
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT-N.T.S.



SILT FENCE INLET PROTECTION-N.T.S.

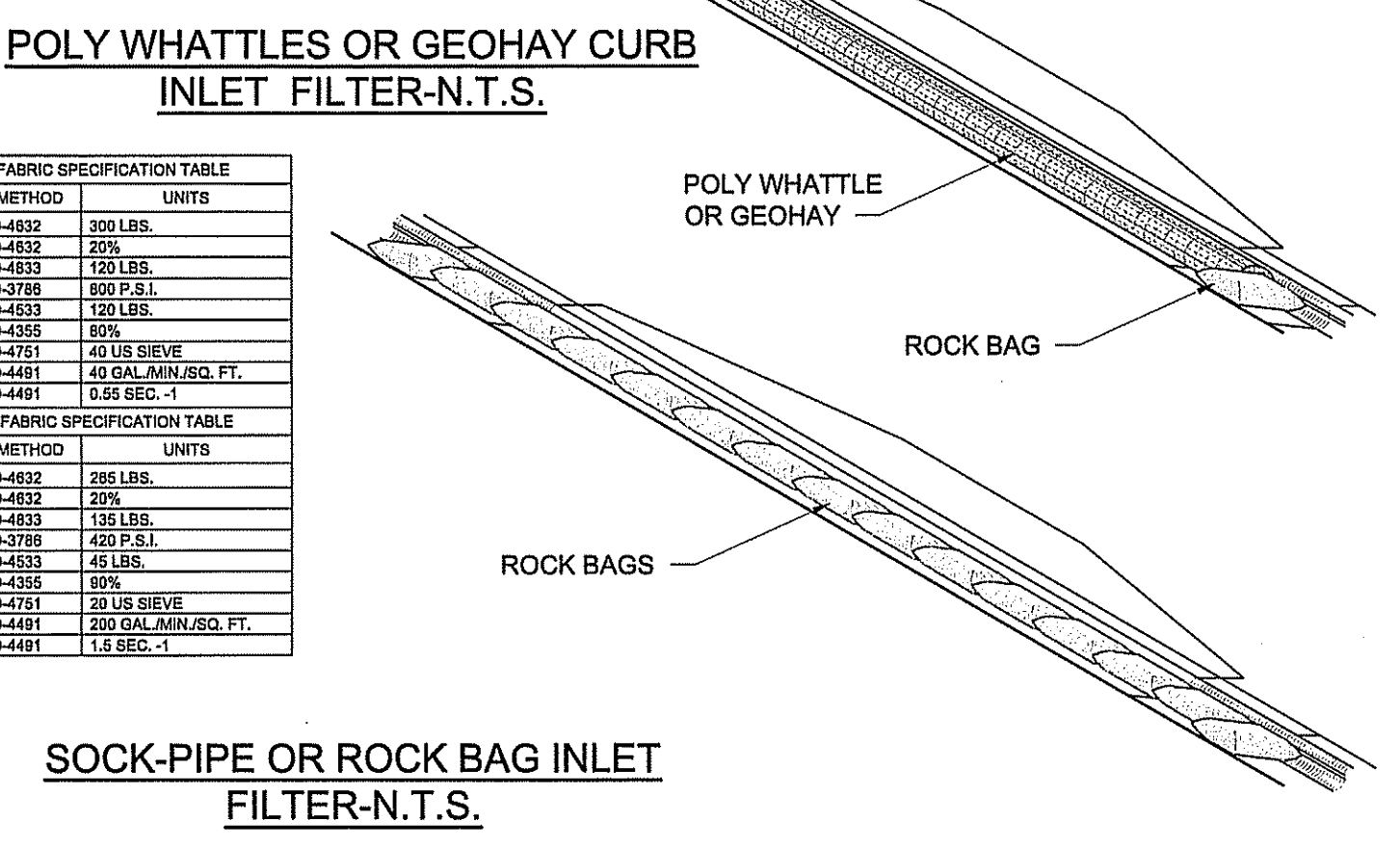


TYPE III SILT FENCE



SILT FENCE APPLICATIONS-N.T.S.

Table with 3 columns: PROPERTIES, TEST METHOD, UNITS. It lists specifications for geotextile fabric, including grab tensile strength, elongation, puncture, and flow rate.



SOCK-PIPE OR ROCK BAG INLET FILTER-N.T.S.

Mills, Short & Associates
700 22nd Place, Suite 2C/2D
Vero Beach, Florida 32960
PHONE: 772.226.7282
CA.#: 30698
WEBSITE: www.MillsShortAssociates.com

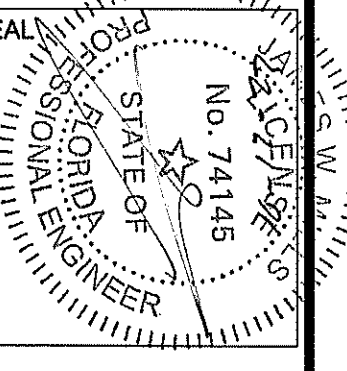


Table with 4 columns: ISSUE, DATE, COMMENTS, FIRE COMMENTS. It shows a single issue dated 10-11-23.

PROJECT: VYBE INVESTMENT VERO BEACH DEVELOPMENT
1801 U.S. HIGHWAY ONE CITY OF VERO BEACH, FL 32960
DRAWN BY: JWM
CHECKED BY: JWM
SCALE: N/A
APPROVED BY: JWM
PROJECT NO.: 21-3530
DATE: 7/12/22
SHEET NO.: C-10

