

ADDENDUM NO. 2

To the Plans and Specifications for:

FY24 Stormwater Improvements

City of Seminole

1. **BID DATE: NO CHANGE**

Friday, August 2, 2024 @ 11:00 A.M.

2. **TECHNICAL SPECIFICATIONS:**

A. Bid Forms, Bid Tab, Schedule A

Please note the following pay item quantity revisions:

- Pay Item A-U-1, SANITARY LATERAL REMOVAL & REPLACEMENT
Revise from 475 LF to 300 LF
- Pay Item A-S-5, LANDSCAPE RESTORATION added

Schedule A has been reissued in its entirety.

B. Exhibit B, Specifications, Section 01025 – Measurement & Payment

Please note the following changes:

- The description for Pay Items A-DR-1 through A-DR-5 has been revised to remove reference to furnishing and installing new ductile iron piping and added language that the sanitary lateral locations shall be verified prior to fabricating structures.
- Sanitary Lateral Removal & Replacement (ITEM A-U-1) description has been revised to add the furnishing and installation of ductile iron sanitary piping and shielded couplers.
- Landscape Restoration (ITEM A-S-4) has been added.

Section 01025, Measurement & Payment, has been reissued in its entirety

3. **PLANS:**

A. Sheet C2, General Notes & Legends

- a. Added additional SUE information to the SUE table.

B. Sheet C5, Demolition & Erosion Control

- a. Added line type for tree barricades to the legend and a callout for the typical tree barricade.
- b. Added callout for the protection of the existing flag pole.
- c. Further clarification on the limits of roadway milling as well as a callout for the protection of the existing roadway outside of the milling limits.

C. Sheet C6, Plan & Profile (Grove Terrace)

- a. Added notation that the Contractor shall verify the location of the existing sanitary laterals prior to the fabrication of stormwater structures.
- b. Added notation to clarify that the Contractor has the option to cast-in-place the stormwater structures if they so choose.
- c. Added notation clarifying that the existing sanitary lateral material is clay (VCP).
- d. Added notation clarifying that the existing VCP sanitary gravity system has been lined.
- e. Added locations of additional SUE activities.

D. Sheet C7, Plan & Profile (Grove Terrace)

- a. Added notation that the Contractor shall verify the location of the existing sanitary laterals prior to the fabrication of stormwater structures.
- b. Added notation to clarify that the Contractor has the option to cast-in-place the stormwater structures if they so choose.
- c. Added notation clarifying that the existing sanitary lateral material is clay (VCP).
- d. Added notation clarifying that the existing VCP sanitary gravity system has been lined.
- e. Added locations of additional SUE activities.

E. Sheet C11, General Details

- a. Detail 4 – Pipe Bedding Detail
 - i. Bedding material requirements have been revised.
 - ii. Added asphalt restoration requirements to the paving segment.
 - iii. Added base material and compaction requirements for the excavation restoration segment.
- b. Detail 9 – Shoulder Grading
 - i. Detail added specifying the soil compaction requirements at the shoulder and swale.

Sheets C2, C5, C6, C7 & C11 have been reissued.

4. RESPONSE TO SUBMITTED QUESTIONS

RSQ.1 Due to the narrow roadway width, will Johnson Road and Grove Terrace be allowed to be closed to install pipe and restore roadway for runs SD-01 to SD-02 and SD-02 to SD-03, while maintaining access to 10990 Grove Terrace?

Please note that the County will be performing a water main replacement on the adjacent roadway (Oakdale Terrace) at the same time as the FY24 Stormwater Improvements project on Grove Terrace. Temporary roadway closure during daytime work activities will be allowed, however, the roadway will need to be re-opened for the evening hours and weekends to allow for resident access.

RSQ.2 Are resilient connectors required for concrete structures?

Please note, resilient connectors are not required, but will be permitted.

RSQ.3 Bid Item A-S-2 is for Concrete Driveway Reconstruction, 6" Thick. Four driveways to be replaced are asphalt, and one is brick. Are these driveways to be replaced to original condition? If so, how are they to be paid, and what typical section is to be used?

Please note, the asphalt driveways are to be reconstructed as concrete driveways to provide a uniform appearance within the project area. The City is aware that one (1) resident has a brick paver driveway within the right-of-way. Outreach with the homeowner will be performed to determine whether the Contractor will remove the bricks and set them aside for the resident to reset the pavers or reconstruct the section within the right-of-way with a concrete driveway. The removal and stacking of the brick pavers shall be paid for under the Demolition / Clearing and Grubbing (ITEM A-G-3) pay item.

RSQ.4 Will the fiber optic and 1" water lines crossing the 14"x23" pipe runs be in conflict?

Please note, the 1" water lines to be installed as part of the County's water main replacement project will be installed below the proposed stormwater system prior to the start of the FY24 Stormwater Improvements project.

The Contractor will be responsible for relocating the existing fiber optic if it is in conflict. We will coordinate with Frontier Communications prior to issuance of the contract to inform them of the potential conflict.

RSQ.5 Plan sheet C5 does not clearly identify where tree protection and silt fencing are to be installed. Please provide this information.

Please reference the revised Sheet C5 legend for the line type depicting the tree barricades. Tree barricades shall terminate at the right-of-way limits.

Sheet C5 depicts the limits of silt fencing being located on the western end of the project.

RSQ.6 What material types and sizes are to be used for the sanitary lines passing through the conflict structures?

Please note, the sanitary laterals traveling through the conflict structures shall be ductile iron matching the diameter of the existing laterals (anticipated 4-6" sizes). The ductile iron pipe shall meet Pinellas County Material Specifications including a factory applied PROTECTO 401 interior coating.

Shielded couplers (Fernco StrongBack RC 1000 or approved equal) shall be used to connect the ductile iron pipe to the existing clay laterals.

RSQ.7 Is granular bedding material directed to be used for pipe backfill?

Please reference the Pipe Bedding Detail (Detail 4) on Sheet C11 for the bedding material for pipe backfilling.

RSQ.8 What is the required typical section for roadway to be removed and replaced?

Please reference Pipe Bedding Detail (Detail 4) on Sheet C11 for the roadway restoration requirements.

RSQ.9 There is a fenced, landscaped area with a flagpole located at 10871 Grove Terrace. Is the area to be protected, or removed and replaced?

Please note, flagpoles shall be protected during construction. Pay item Landscape Restoration (ITEM A-S-4) has been added for the protection of flagpoles and the restoration of landscaping.

RSQ.10 Please provide locations of irrigation systems to be replaced.

Please note, the City does not own or maintain any irrigation systems that may be located within the Grove Terrace right-of-way. We are not aware of any irrigation systems which may be present outside of the existing top of banks on the homeowner side. The only irrigation system adjustments which may be necessary are rotor and sprinkler head adjustments due to grading activities. Any damage to private irrigation systems will be considered incidentals and not paid for by the City.

RSQ.11 Several driveways appear to be too narrow to accommodate parking while being replaced, and there does not appear to be adequate room to provide this space within the right of way. What is the Owner's intent for this?

Please note, the Contractor shall provide access to the residential properties throughout the construction period. Temporary driveways using crushed concrete and / or millings may be constructed to provide access to homes. The Contractor will be responsible for coordinating with the residents to provide temporary parking and / or access.

RSQ.12 As there are no details provided for the existing monitoring wells located at 10901 Grove Terrace, what provision needs to be made for them during construction?

Please note, the three (3) monitoring wells located at 10901 Grove Terrace were installed as part of the redevelopment of the Seminole Mall property (FDEP Permit # BF521304000). The wells are 4.25-inch diameter and bored at 15, 30 and 50 foot depths to monitor potential groundwater

contamination. Coordination was made with FDEP and the information relayed was that dewatering efforts would not require treatment prior to discharging out of the site. All efforts shall be made to protect the monitoring wells during construction.

5. GENERAL CLARIFICATION / INFORMATION:

- GC.1 Please note, the existing lateral material is vitrified clay pipe (VCP). The contractor shall verify the locations of the existing laterals prior to fabricating structures. Minor adjustments to structure inverts may be required based on the locations of the laterals.
- GC.2 The sanitary gravity main within the project area has been lined.
- GC.3 Ductile iron piping used for the laterals shall meet Pinellas County Material Specifications and include a factory applied PROTECTO 401 interior coating. All coupling shall be shielded (Fernco StrongBack RC 1000 or approved equal). Casing for the lateral conflicts is not required.
- GC.4 The Contractor may fabricate the structures in the field after confirming lateral locations in lieu of ordering precast structures. Please reference Sheet C11 for the cast-in-place or precast options.
- GC.5 The Contractor shall protect the existing roadway outside of the roadway restoration limits.
- GC.6 Roadway base restoration shall be confined to the excavation area needed to remove the existing 12" PVC pipe crossing the roadway and the installation of the 14" x 23" ERCP and 19" x 30" ERCP.
- GC.7 The City will allow for equipment and material to be stored at the City owned property at the northeast corner of 70th Avenue North and 113th Street North. In addition, the Contractor may store equipment and materials along the western parkway along Johnson Road and within the right-of-way south of the intersection of Grove Terrace / Johnson Road. Please reference the attached figures for the two locations.
- GC.8 The City will perform outreach with the resident at 10910 Grove Terrace to verify whether the homeowner would prefer a concrete driveway from the right-of-way line to roadway. In the event that the homeowner wants to keep the brick paver driveway, the Contractor shall remove and stack the pavers for the resident to restore their driveway after the Contractor completes their work.
- GC.9 Please note, the volume of the existing ditch capacity to be filled is approximately 230 cubic yards. Please reference the cross sections for the cross sectional area to be filled.

GC.10 Please note, all stormwater piping shall be installed per FDOT Standard Specification Section 430. Laser profiling is not required for this project.

CITY OF SEMINOLE

July 29, 2024

Bid Tab Schedule A

No changes shall be made to the Pay Item Quantities contained herein. Any corrections to bidders' entries shall be made in ink and shall be initialed by the bidder

Pay Item No.	APPROXIMATE QUANTITIES	ITEM & UNIT PRICES BID (PRICES TO BE WRITTEN IN WORDS)	UNIT PRICE	AMOUNT
A-G-1	1 Lump Sum	MOBILIZATION		
		Lump Sum	\$	\$
A-G-2	1 Lump Sum	MAINTENANCE OF TRAFFIC		
		Lump Sum	\$	\$
A-G-3	1 Lump Sum	DEMOLITION / CLEARING & GRUBBING		
		Lump Sum	\$	\$
A-G-4	1 Lump Sum	TREE PROTECTION		
		Lump Sum	\$	\$
A-G-5	1 Lump Sum	EROSION AND SEDIMENT CONTROL		
		Lump Sum	\$	\$
A-DR-1	1 Each	FDOT TYPE "D" DITCH BOTTOM INLET		
		Per Each	\$	\$
A-DR-2	15 Each	FDOT TYPE "C" DITCH BOTTOM INLET (CONFLICT STRUCTURE)		
		Per Each	\$	\$
A-DR-3	3 Each	FDOT TYPE "C" DITCH BOTTOM INLET		
		Per Each	\$	\$

Bid Tab Schedule A

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Pay Item No.	APPROXIMATE QUANTITIES	ITEM & UNIT PRICES BID (PRICES TO BE WRITTEN IN WORDS)	UNIT PRICE	AMOUNT
A-DR-4	1 Each	FDOT TYPE J-7T MANHOLE (8' DIA.)		
		Per Each	\$	\$
A-DR-5	3 Each	FDOT TYPE P-7T MANHOLE CONFLICT STRUCTURE (4' DIA.)		
		Per Each	\$	\$
A-DR-6	1,225 Linear Feet	14" x 23" ERCP		
		Per Linear Foot	\$	\$
A-DR-7	35 Linear Feet	19" x 30" ERCP		
		Per Linear Foot	\$	\$
A-DR-8	10 Linear Feet	24" RCP		
		Per Linear Foot	\$	\$
A-U-1	300 Linear Feet	SANITARY LATERAL REMOVAL & REPLACEMENT		
		Per Linear Foot	\$	\$
A-S-1	26,000 Square Feet	SOD RESTORATION		
		Per Square Foot	\$	\$
A-S-2	5,000 Square Feet	CONCRETE DRIVEWAY RECONSTRUCTION, 6" THICK		
		Per Square Foot	\$	\$

Bid Tab Schedule A

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Pay Item No.	APPROXIMATE QUANTITIES	ITEM & UNIT PRICES BID (PRICES TO BE WRITTEN IN WORDS)	UNIT PRICE	AMOUNT
A-S-3	195 Square Yards	ROADWAY RESTORATION		
		Per Square Yard	\$	\$
A-S-4	2,800 Square Yards	FINE GRADING		
		Per Square Yard	\$	\$
A-S-5	1 Lump Sum	LANDSCAPE RESTORATION		
		Lump Sum	\$	\$
A-M-1	15 Cubic Yards	EXCAVATION, UNSUITABLE MATERIAL		
		Per Cubic Yard	\$	\$
TOTAL (SCHEDULE A)		_____		\$ _____

Section 01025 Measurement & Payment

Part 1 General

1.01 Scope of Payment

Payment to the CONTRACTOR will be made for actual quantities and work completed and accepted in accordance with the Contract.

The CONTRACTOR shall accept in compensation provided herein full payment for furnishing all materials, labor, tools, equipment, and incidentals necessary to complete all work included in the Contract; also for all loss or damage arising from the nature of the work, inclement weather, action of the elements or from any unforeseen difficulties which may be encountered during the execution of the work or except as provided herein. The CITY will make no allowances for items not included in the proposal.

1.02 Procedure for Measurement

- A. For lump sum items, payment shall be based on the lump sum prices set forth in the Bid Proposal and based on the amount of completed work.
- B. For field measured unit-price items, payment shall be based on the actual amount of work accepted and the actual amount of materials in place, as will be determined by measurements.

1.03 Estimated Quantities

All estimated field measure quantities stipulated in the Contract Documents are approximate and are to be used only (a) as a basis for estimating the probable cost of the WORK and (b) for purpose of comparing the bids submitted for the WORK. The actual amounts of WORK done under field measured unit price items may differ from the estimated quantities. The basis of payment for WORK will be the actual amount of WORK performed and field measured.

Should the quantities of unit price items listed in the original Vendor Proposal Form increase or decrease, the prices for these items must be at the unit price quoted by the CONTRACTOR on his original Vendor Proposal Form.

1.04 Incidental Work

All work shown on the plans and referenced in the specifications as being part of the contract for which no separate pay item is provided is considered incidental to the contract. Incidental items are to be incorporated into the pay items provided. Claims for separate payment of incidental items will not be considered.

1.05 Items Included but Not Specified

The unit or lump sum prices designated in the Bid Proposal shall include all profit, taxes, labor, overhead, material, equipment, tools, utility notification and coordination, protection of existing utilities, temporary support of existing utilities, irrigation protection / demolition & repair, shoring (proprietary & non-proprietary), sheeting and slope protection (proprietary & non-proprietary), night work when needed, design of sheeting/shoring/slope stabilization, backfill, dewatering, extra backfill material as required, excavation materials, protection and preservation of existing

structures, salvaging of items as shown on the drawings, coordination with City staff and residents, the erection of previously removed fencing and gates, securing a Building Permit and other work incidental thereto and specified in these specifications and on the drawings.

1.06 Description of Pay Items

The following describes the measurement of and payment for the work to be done under the respective items listed in the Bid Proposal.

Each field measure unit or lump sum item stated in the Bid Proposal shall constitute full compensation for each item of work completed.

Mobilization (ITEM A-G-1)

The work specified under this Section consists of preparatory work and operation in mobilizing to begin work on the project, including but limited to those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site(s), and for the establishment of temporary offices, buildings, safety equipment, project sign and first aid supplies, sanitary and other facilities as required by these specifications, special provisions, and state and local laws and regulations. Mobilization costs shall also include the costs of preconstruction videotaping, coordination with residents throughout the project’s duration, coordination with City representatives throughout the project’s duration, project signs, insurance, bonds, permits (including NPDES and dewatering) and other Contract materials.

The contract unit price will be on a lump sum (LS) unit price. Partial payments will be allowed as outlined below.

PERCENT OF ORIGINAL CONTRACT AMOUNT EARNED	ALLOWABLE PERCENT OF THE LUMP SUM PRICE FOR MOBILIZATION (*)
5	25
10	50
25	75
100	100

Maintenance of Traffic (ITEM A-G-2)

This Section consists of the maintaining vehicular and pedestrian traffic within limits of the project for the duration of the construction period, in accordance with the requirements of FDOT Section 102 of the "Standard Specifications", as amended herein.

The Contractor will not be permitted to close access to residences or places of business. Provisions shall be made to provide access to large trucks for pick-up and delivery of materials during the construction period. The Contractor shall furnish, erect, and maintain all necessary traffic control and safety devices, in accordance with the Florida Department of Transportation "ROADWAY AND TRAFFIC DESIGN STANDARDS", applicable edition, and State of Florida's "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION MAINTENANCE AND UTILITY OPERATIONS", applicable edition, and shall take all necessary precautions for the protection of the work and the safety of the public for duration of the construction period.

A Maintenance of Traffic (MOT) plan shall be submitted to the City, by the Contractor, and approved prior to implementation. This plan shall include all necessary signage and dimensions and be prepared by an Advanced MOT certified party or Florida-registered professional engineer.

The work specified under this Section shall include the furnishing, erection, and maintenance of all temporary traffic barricades of whatever type required, and for such duration as may be required, and shall include all materials and construction necessary for temporary connections and driveway maintenance. The Contract unit price for this item will be a lump sum unit price. Partial payments for maintenance of traffic will be limited to the overall percent of the work completed by the Contractor.

This pay item shall include multiple setups and modifications, as needed, to satisfactorily perform the work.

This pay item shall include the construction and demolition of ADA-compliant temporary walking surfaces where required to maintain pedestrian access.

Demolition / Clearing and Grubbing (ITEM A-G-3)

Payment under this pay item shall be provided on a lump sum basis and include all equipment, material and labor to perform the work. Payment shall include, but not be limited to, the following: demolition of existing roadway, driveways, root and limb pruning if needed, tree removal where specified, stump removal where required, landscaping / sod removal, irrigation removal, removal and temporary storage of items to be reinstalled, protection of existing facilities, stormwater structure and pipe demolition, stormwater pipe abandonment (including plugging), clearing and grubbing, and all incidentals necessary to complete the work.

Hand clearing and grubbing, where required, shall be a component of this pay item.

Payment for Clearing and Grubbing shall be made on a lump sum (LS) basis.

Tree Protection (ITEM A-G-4)

Payment for Tree Protection shall include furnishing, installing and removing tree protection around trees near construction activities where required and as indicated on the construction plans and removal upon completion.

Payment for tree protection shall be made on a per lump sum (LS) basis.

Erosion & Sediment Control (ITEM A-G-5)

Price shall include payment for all installation, maintenance, removal, and all other incidentals necessary to provide erosion and sediment control (within the project boundaries) as notated on the plans and as required by any local, state or Federal code, statute or ordinance. Daily debris removal from right of ways, easements and vehicle use areas shall be included in this pay item.

Payment for this item shall be on a lump sum (LS) basis and shall include all necessary equipment, labor and materials to complete this pay item. The Contractor shall receive compensation for this item as stipulated in the table on the following page.

PERCENT OF ORIGINAL CONTRACT AMOUNT EARNED	ALLOWABLE PERCENT OF THE LUMP SUM PRICE FOR EROSION AND SEDIMENT CONTROL
5	25
10	50
25	75
100	100

FDOT Type “D” Ditch Bottom Inlet (ITEM A-DR-1)

FDOT Type “C” Ditch Bottom Inlet (ITEM A-DR-2)

FDOT Type “C” Ditch Bottom Inlet (Conflict Structure) (ITEM A-DR-3)

FDOT Type J-7T Manhole (8’ Dia.) (ITEM A-DR-4)

FDOT Type P-7T Manhole Conflict Structure (4’ Dia.) (ITEM A-DR-5)

The above pay items shall include payment for furnishing and installing stormwater structures. Payment for this item shall include, but not be limited to, the following: acquisition of field dimensions, dewatering, excavation, the removal and proper disposal of existing piping to be replaced and/or shown to be removed in the plans, the disposal of excess material, transportation, sheeting, shoring, slope stabilization, protection / support of existing utilities, bedding material, structure modifications, additional piping as needed to extend existing piping and perform a connection, incorporation of conflict piping, frame and grate adjustments (as necessary), access covers & grating, grouting, sealing, formwork, reinforcement, connection of new/existing piping, connections to existing structures, backfilling, backfill material, compaction, grading, testing, protection of work, clean up and any other incidentals required to perform this task.

Payment for this item shall be on a per each stormwater structure furnished and installed basis (or connection made) and shall include all necessary equipment, labor and materials to complete this pay item.

Sanitary lateral locations shall be verified prior to structure fabrication. The installation of ductile iron sanitary lateral through the structure shall be paid for under the Sanitary Lateral Removal & Replacement pay item.

14” x 23” ERCP (ITEM A-DR-6)

19” x 30” ERCP (ITEM A-DR-7)

24” RCP (ITEM A-DR-8)

Payment for pipe culvert (sizes stated above) will be paid for at the Contract Unit Price per linear foot for the size pipe installed, based on field measurements. The price paid shall be payment in full for the pipe, gaskets, joint material, external joint wrap, filter fabric, dewatering, all excavation, the disposal of excess material, existing pipe removal and disposal, demolition of surfaces and other features as needed to construct the piping, protection of property and structures, transportation, sheeting, bedding material, backfilling, backfill material, grading, compaction, testing, televising, equipment, labor, materials, protection of work, trench safety precautions, connections to existing piping, concrete collar construction (per FDOT Index No. 430-001), clean up and all other incidentals necessary to complete each item.

The quantity of storm pipe to be paid for shall be based on the laying length of the pipe in linear feet actually placed as measured along the long side of the satisfactorily installed pipe (measured from the outside wall of structures).

All excess material shall be transported offsite at the expense of the Contractor.

Sanitary Lateral Removal & Replacement (ITEM A-U-1)

Payment for the relocation of sanitary laterals shall be made at the Contract Unit Price per linear foot of lateral relocated. The price paid shall be payment in full for all labor, equipment and materials necessary to relocate sanitary laterals, as needed, in order to facilitate storm drain installation and/or roadway reconstruction. This item shall include all survey staking, utility & homeowner coordination, excavation, disposal of excess material, dewatering, sheeting, trench stabilization, protection of existing utilities, furnishing and installation of ductile iron sanitary lateral piping, shielded couplers, fittings, appurtenances, adaptors, removal and disposal of conflicting sanitary laterals, temporary plugs, connections to existing laterals, backfill and all other incidental items required to relocate the sanitary laterals (as needed).

The sizes of existing sanitary laterals are unknown. The Contractor shall replace laterals size in-kind (4" to 6" anticipated).

Sod Restoration (ITEM No. A-S-1)

Sod will be paid at the Contract Unit Price per square foot. Price paid shall be payment in full for furnishing and installing sod, topsoil, stakes, all necessary subgrade preparation, grading, fertilizing, watering, rolling and tamping, mowing, maintenance, care, and replacement of defective sod and surplus materials.

Sod shall be measured in square feet of sod installed, in kind, on all disturbed work areas within the limits of construction or as directed in the field by the CITY. Payment for sodding will not be made for disturbed areas not directly related to construction, including equipment and material storage areas. Restoration in these areas shall be at the Contractor's expense.

Concrete Driveway Reconstruction, 6" Thick (ITEM No. A-S-2)

Payment for concrete driveways of the thickness specified (6") will be paid for at the Contract unit price per square foot, based on field measurements. The price paid shall be payment in full for dewatering, grading, concrete saw cutting, the removal and disposal of unsuitable material, furnishing and placement of all driveway materials, transportation, equipment, labor, subgrade stabilization, compaction, reinforcement, jointing, finishing, material testing and all other incidentals necessary to complete this item.

Measurement for payment of this Pay Item shall be the measured in place square feet (SF) of Concrete Driveway Reconstruction completed and accepted.

Field layout, coordination with residents, coordination with the CITY and revisions to field layout are all components of work for driveway restoration (all kinds).

Roadway Restoration (ITEM A-S-3)

Payment for the restoration of roadways shall be made on a per square yard restored basis and shall include all necessary equipment, materials and labor required to complete this item. Work activities to be covered under this pay item shall include, but not be limited to, the following: excavation, removal of excess material, undercutting where required, furnishing fill, subgrade and base material, placement of fill, subgrade and base material per the specifications, compaction of fill, subgrade, and base in accordance with the specifications, stabilization of subgrade, grading as needed to achieve proposed pavement elevations, application of prime and tack coats, furnish and place asphalt, compaction, testing and all incidental items required

to complete this pay item. Roadway restoration shall be in compliance with all plan and specification requirements.

Fine Grading (ITEM A-S-4)

Payment for fine grading shall be paid for at the unit price per square yard which will be full compensation for grading required to achieve new plan elevations. Payment shall include, but not be limited to, identifying grading limits, protection of facilities proposed to remain during grading activities, importing suitable fill, grading, compaction, adjustment to existing utilities within the parkway, preparation of surface for sod, testing, labor, equipment, and other incidentals necessary to complete this item.

Grading associated with the restoration of existing grade shall not be eligible for compensation under this pay item.

Landscape Restoration (ITEM A-S-5)

Payment for this item shall be paid for on a lump sum basis. The price paid shall be full compensation for the reconstruction of landscaping beds/decorative planters and fencing removed or altered during construction activities. Payment for this item shall include all City and homeowner coordination, removal of existing landscape bed/decorative planter features, fencing removal, flagpole protection, temporary storage of removed features (if feasible), replacement of removed features (if necessary), replacement of ground cover as existing prior to construction commencement, and all transportation, dewatering, irrigation replacement/reconnection and all other incidentals required to complete this item.

Excavation, Unsuitable Material (ITEM A-M-1)

The above pay item shall include payment for removing (from the site) and properly disposing of material deemed unsuitable for use. Work activities to be covered under this pay item shall include, but not be limited to, the following: coordination with City staff, quantity tracking using a City-approved approach, material testing to confirm suitability of existing site material, excavation, sheeting/shoring/slope protection, separation of suitable and unsuitable material, removal of rocks/boulders/debris from unsuitable material, dewatering of excavated material, temporary storage of material to be onsite, all trucking and transportation costs, furnishing and installing suitable material and all other incidentals necessary to complete this item. Payment for this item shall be on a per cubic yard of unsuitable material excavated, removed, disposed and replaced basis and shall include all necessary equipment, labor and materials to complete this pay item.

It shall be noted that this pay item is only applicable for the removal of material which currently is onsite. Any unsuitable material imported by the Contractor shall be removed (and disposed of) at no additional cost to the City. Written approval from the City/Engineer shall be provided prior to utilization of this pay item.

Measurement for payment for this item shall be per Cubic Yard (CY) of field measurement of volume per truck load or container of material removed and disposed.

End of Section

GENERAL NOTES:

- ANY PROPERTY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF ANY ARE DISTURBED, CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE BEEN INSTALLED AND CONSTRUCTED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK (WHETHER OR NOT SHOWN ON THE PLANS).
- ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER NONDESTRUCTIVE INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED.
- FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND/OR GRADE DEVIATIONS FROM THOSE WHICH ARE INDICATED ON THE PLANS. ANY DEVIATIONS OR ADJUSTMENTS SHALL FIRST BE APPROVED BY THE ENGINEER BEFORE BEING PERFORMED.
- THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 1-800-432-4770.
- CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE PLANS, U.S. DEPARTMENT OF TRANSPORTATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "ROADWAY AND TRAFFIC DESIGN STANDARDS" (ALL LATEST EDITIONS). CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL HAVE THE M.O.T. PLAN APPROVED AT LEAST 48 HOURS PRIOR TO THE START OF WORK. THE M.O.T. SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR AN INDIVIDUAL WHO HAS COMPLETED ADVANCED M.O.T. TRAINING. THE M.O.T. PLAN SHALL SHOW ALL HAUL ROUTES, EMERGENCY EXITS AND RESIDENT ACCESS DURING EACH PHASE OF CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW WORDINGS OF ALL SIGNAGE. EXISTING TRAVEL WAYS SHALL BE KEPT OPEN TO TWO-WAY TRAFFIC FOR THE DURATION OF THE PROJECT, EXCEPT ONE LANE OF TRAFFIC WILL BE PERMITTED PROVIDED FLAGMEN ARE USED. THE CONTRACTOR WILL NOT BE PERMITTED TO CLOSE ACCESS TO RESIDENCES OR PLACES OF BUSINESS. PROVISIONS WILL BE MADE TO PROVIDE ACCESS TO CONSTRUCTION VEHICLES FOR PICK-UP AND DELIVERY OF MATERIALS DURING THE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL MAINTAIN A SET OF PLANS WITH CURRENT FIELD CHANGES MARKED. A COMPLETED SET OF "AS-BUILT" PLANS SHALL BE SUBMITTED TO THE CITY PER REQUIREMENTS OF THE SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY SURVEY WORK INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION STAKEOUT & RECORD DRAWING PREPARATION.
- ALL ROADWAYS AND OPEN RIGHT-OF-WAY AREAS MUST BE CLEANED OF DIRT, DEBRIS AND CONSTRUCTION MATERIALS BY THE END OF EACH WORK SHIFT. ALL CONSTRUCTION AREAS MUST BE SAFELY DELINEATED TO AVOID ACCIDENTS WHILE THE CONTRACTOR IS NOT PRESENT. OVERALL CLEAN UP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH CITY STANDARDS AND THE SPECIFICATIONS OR AS DIRECTED BY THE CITY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
- THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING. NO PAYMENT SHALL BE MADE FOR THIS WORK.
- ANY AND ALL CONSTRUCTION MATERIALS, METHODS AND INSTALLATION SHALL BE IN FULL COMPLIANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL EMERGENCY VEHICLES TO RESIDENTIAL AND COMMERCIAL PROPERTIES AT ALL TIMES.
- CONTRACTOR SHALL REMOVE AND RESET ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH PROPOSED CONSTRUCTION. RESET LOCATIONS SHALL BE APPROVED BY THE CITY.
- THE CONTRACTOR SHALL FULLY RESTORE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
- EXISTING CONCRETE CURB WHICH IS DISTURBED SHALL BE REPLACED IN-KIND.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING AND SHORING (PROPRIETARY & NON-PROPRIETARY) AS NECESSARY. DEWATERING SHALL BE UTILIZED AS REQUIRED TO KEEP TRENCHES AND EXCAVATIONS DRY THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE GENERAL PUBLIC'S SAFETY WHEN CONSTRUCTION EXCAVATIONS ARE LEFT UNATTENDED. EXCAVATIONS SHALL HAVE TEMPORARY SAFETY FENCING PLACED AROUND THE PERIMETER OF THE EXCAVATION. EXCAVATION PROTECTION MEASURES SHALL BE COMPLETED PRIOR TO CONSTRUCTION PERSONNEL LEAVING THE SITE THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "FLORIDA TRENCH SAFETY ACT". THE CONTRACTOR SHALL ENSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH ALL OSHA REGULATIONS.
- ALL VALVE BOXES, MANHOLE FRAMES, CLEAN-OUTS, IRRIGATION BOXES, ETC. SHALL BE ADJUSTED TO MATCH FINISHED GRADES. FOR MANHOLE FRAME ADJUSTMENTS, UTILIZE CONCRETE ADJUSTMENT RINGS AS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE OR PERFORM TEMPORARY SUPPORT ACTIVITIES FOR UTILITY POLES AS NEEDED.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A HURRICANE PREPARATION PLAN TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- THE CITY WILL ONLY PERMIT THE USE OF SELECT FILL WHEN FILL IS IMPORTED TO ACHIEVE THE PROPOSED GRADES. SELECT FILL SHALL BE CLASSIFIED AS A-1 OR A-3 SOILS PER AASHTO M 145. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION ON THE CLEAN FILL MATERIAL AS A SHOP DRAWING.
- SELECT FILL IN SOD AREAS SHALL CONTAIN AMPLE ORGANIC MATTER (<2.5%) TO FACILITATE GROUND COVER GROWTH. ORGANIC CONTENT SHALL NOT EXCEED 5% (MAX.).
- ANY TEMPORARY FENCING USED SHALL BE INSTALLED AND REMOVED AT THE CONTRACTOR'S EXPENSE.

27. THE CONTRACTOR SHALL PROTECT EXISTING MAILBOXES DURING CONSTRUCTION. IN THE EVENT THAT A RESIDENT'S MAILBOX NEEDS TO BE TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROVIDE A MEANS FOR RESIDENTS TO RECEIVE MAIL DURING THE COURSE OF CONSTRUCTION ACTIVITIES AND RESET THE MAILBOX AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED IN THE IMMEDIATE AREA.

EROSION & SEDIMENT CONTROL/DEWATERING:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE WHATEVER MEANS NECESSARY TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE WATERS & DRAINS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIERS AS SHOWN ON THE PLANS OR AS DIRECTED IN THE FIELD, TO PREVENT SILT EROSION DUE TO CONSTRUCTION ACTIVITIES. THESE DEVICES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTED METHOD.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRODUCE A "STORMWATER POLLUTION PREVENTION PLAN" (SWPPP) AND OBTAIN COVERAGE UNDER A "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES) PERMIT BEFORE CONSTRUCTION PROCEEDS. A "NOTICE OF INTENT" (NOI) FORM SHALL BE COMPLETED AND SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). A COPY OF THE SUBMITTED SWPPP AND NOI SHALL BE PROVIDED TO THE CITY PRIOR TO THE NOTICE OF COMMENCEMENT. FOR MORE INFORMATION, CONTACT 850-245-7520 OR VISIT THE FOLLOWING WEB SITE: www.dep.fl.us/water/stormwater/npdes/index.htm.
- THE CONTRACTOR SHALL PLACE SILT FENCING AROUND THE PERIMETER OF ALL STAGING & MATERIAL STORAGE AREAS.
- DURING CONSTRUCTION, NEW INLETS SHALL HAVE INLET PROTECTION DEVICES INSTALLED UNTIL CONSTRUCTION IS COMPLETE.
- THE CONTRACTOR SHALL INCORPORATE WASHDOWN AREAS OR SOIL TRACKING SYSTEMS INTO THE EROSION CONTROL PLAN IN AN EFFORT TO KEEP SEDIMENT OFF OF PUBLIC ROADWAYS. SOIL TRACKING SYSTEMS SHALL USE FOOT SIZE #1 AGGREGATE AND BE A MINIMUM OF 4" THICK.
- SEDIMENT SHALL BE REMOVED FROM VEHICLE USE AREAS ON A DAILY BASIS.
- ANY DEWATERING ACTIVITY THAT DISCHARGES PRODUCED GROUNDWATER TO WATERS OF THE STATE OR ANY MS4 SHALL BE PERMITTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR WILL BE RESPONSIBLE FOR GROUNDWATER TESTING, THE PREPARATION OF A GROUNDWATER REMEDIATION PLAN FOR DEWATERED FLOWS, PERMITTING OF THIS PLAN THROUGH THE FDEP AND IMPLEMENTATION OF THIS PLAN. PLEASE REFERENCE THE SPECIFICATIONS TO VIEW GROUNDWATER TESTING RESULTS. IT SHALL BE NOTED THAT ADDITIONAL PAYMENT WILL NOT BE PROVIDED IN THE EVENT CONCENTRATIONS IDENTIFIED IN THE SPECIFICATIONS ARE LESS THAN THE CONCENTRATIONS OBSERVED IN THE FIELD.
- PRIOR TO THE NOTICE TO PROCEED, THE CONTRACTOR SHALL COMPLETE ILLICIT DISCHARGE TRAINING. THIS IS A NEW STATEWIDE REQUIREMENT. AT LEAST ONE PERSON WHO HAS RECEIVED THE TRAINING MUST BE PRESENT AT THE CONSTRUCTION SITE. THERE ARE A FEW OPTIONS TO RECEIVE THE TRAINING:
 - THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS CREATING AN ONLINE ILLICIT DISCHARGE TRAINING PROGRAM. IF THIS COURSE HAS BEEN COMPLETED, PLEASE PROVIDE THE CERTIFICATION NUMBERS OF THE APPLICABLE PERSONNEL.
 - OTHER MUNICIPALITIES IN FLORIDA HAVE THE SAME REQUIREMENT. PROVIDE EVIDENCE THAT APPLICABLE PERSONNEL HAVE RECEIVED TRAINING THROUGH ANOTHER MUNICIPALITY OR SOURCE.

PAVING & GRADING NOTES:

- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) SHALL BE EXCAVATED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- CRUSHED CONCRETE SHALL MEET FDOT GRADATION AND MATERIAL COMPOSITION REQUIREMENTS.
- THE CONTRACTOR SHALL RESTORE THE ROADWAY TO THE PRE-CONSTRUCTION ELEVATIONS UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL SAW CUT THE EXISTING ASPHALT DRIVEWAYS TO BE REMOVED IN LOCATIONS WHERE CONCRETE DRIVEWAYS ARE PROPOSED. SAW CUTS SHALL BE CLEAN AND STRAIGHT.
- THE CONTRACTOR SHALL SAW CUT THE EXISTING ASPHALT ROADWAY IN AREAS WHERE PROPOSED STORMWATER PIPING IS CROSSING THE ROADWAY. SAW CUTS SHALL BE CLEAN AND STRAIGHT. THE CONTRACTOR SHALL USE SHEETING/SHORING/TRENCH PROTECTION MEASURES AS NEEDED TO ENSURE LIMITS OF ROADWAY RESTORATION ARE NOT INCREASED.
- THE CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- ALL PROPOSED ELEVATIONS REPRESENT FINISHED GRADE AFTER SOD REPLACEMENT

STORMWATER BYPASS

- THE CONTRACTOR SHALL PREPARE AND SUBMIT (FOR CITY APPROVAL) A STORMWATER BYPASS PLAN DEPICTING HOW STORMWATER FLOWS WILL BE MANAGED DURING CONSTRUCTION. THE PLAN SHALL INCLUDE CONTINGENT PROVISIONS IN THE EVENT STORM FLOWS EXCEED THE CAPACITY OF THE BYPASS SYSTEM. UNOBSTRUCTED FLOW THROUGH THE EXISTING AND/OR PROPOSED STORMWATER SYSTEMS WILL LIKELY BE NEEDED DURING MORE SIGNIFICANT STORM EVENTS.
- THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMISSIONS TO PLACE BYPASS PUMPS AND ASSOCIATED EQUIPMENT ON PRIVATE PROPERTY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY STRUCTURES ASSOCIATED WITH STORMWATER BYPASS AND OTHER CONSTRUCTION ACTIVITIES.

DRAINAGE NOTES:

- ALL STRUCTURE DIMENSIONS LISTED ARE INTERNAL DIMENSIONS. NO PRECAST STRUCTURES SHALL BE ORDERED UNTIL THE DESIGN ENGINEER HAS REVIEWED AND APPROVED SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR.
- ALL PIPES SHALL HAVE ALL JOINTS WRAPPED WITH A FILTER FABRIC JACKET PER FDOT INDEX 430-001.
- CONTRACTOR SHALL MODIFY AND FULLY RESTORE EXISTING CATCH BASINS AND INLETS AS REQUIRED FOR THE INSTALLATION AND / OR REMOVAL OF STORM PIPE. THIS SHALL INCLUDE THE REMOVAL OF EXISTING PIPING, SAWING, CORING, WALL REPAIRS AND FLOW CHANNEL/BENCH RESTORATION. CONTRACTOR SHALL USE CAUTION SO AS NOT TO DAMAGE EXISTING STRUCTURES.

- THE CONTRACTOR SHALL FIELD CONFIRM EXISTING STORMWATER PIPE INVERTS WHERE AN EXISTING PIPE IS PROPOSED TO BE CONNECTED TO A NEW STRUCTURE.
- BENCHES SHALL BE POURED IN STRUCTURES PER FDOT INDEX NO. 425-001.
- STRUCTURE & PIPE CULVERTS SHALL BE FURNISHED & INSTALLED PER FDOT SPECIFICATION SECTION 125 (EXCAVATION FOR STRUCTURES AND PIPE), SECTION 425 (INLETS, MANHOLES, AND JUNCTION BOXES) AND SECTION 430 (PIPE CULVERTS).
- LASER PROFILING WILL NOT BE REQUIRED.

CLEARING & SITE PREPARATION NOTES:

- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE AREAS NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE RESTORED IMMEDIATELY FOLLOWING CONSTRUCTION OR AS INDICATED ON THE PLANS.
- ANY UNUSED EXCESS GROUND MATERIAL STRIPPED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE REMOVED FROM THE PROJECT SITES.
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL NOTE THAT THERE ARE BURIED TELEPHONE, BURIED ELECTRICAL, WATER AND SANITARY SEWER SERVICES NEAR PROJECT SITES. THESE FACILITIES SHALL BE ACCURATELY FIELD LOCATED PRIOR TO ANY CLEARING AND GRUBBING WORK AND SHALL BE PROTECTED THROUGHOUT CONSTRUCTION ANY DAMAGE TO THESE FACILITIES WILL BE PROMPTLY CORRECTED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SPRINKLER SYSTEMS. COORDINATE WITH EACH PROPERTY OWNER TO TEST THE SPRINKLER SYSTEM ONCE REPAIRS ARE MADE. ALL WORK MUST MEET THE APPROVAL OF THE PROPERTY OWNER AND CITY REPRESENTATIVE.

POINT NAME	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE (IN)	MATERIAL	STATION			EXISTING ELEVATION (APPROX) (FT.)	MEASURE DOWN (FT.)	TOP OF UTILITY ELEVATION (APPROX) (FT.)
				STATION	OFFSET	LT/RT			
EP#1	PINELLAS COUNTY SAN. SEWER LATERALS	4"	VCP	101+17.57	18.13	RT.	20.90	1.90	18.00
EP#2	PINELLAS COUNTY SAN. SEWER LATERALS	4"	VCP	102+52.29	17.55	LT.	20.80	1.90	18.70
EP#3	PINELLAS COUNTY SAN. SEWER LATERALS	4"	VCP	103+38.47	15.63	RT.	21.49	2.40	18.09
EP#4	PINELLAS COUNTY SAN. SEWER LATERALS	4"	VCP	105+47.15	22.01	LT.	21.80	2.01	19.79
EP#5	PINELLAS COUNTY	6"	PVC	106+31.10	22.27	RT.	22.09	2.86	19.23
EP#6	UNK METAL	3"	METAL	106+31.15	24.27	RT.	22.24	1.37	20.87
EP#7	UNK METAL	3"	METAL	102+97.85	23.91	RT.	22.29	1.05	21.24
EP#8	PINELLAS COUNTY	2"	PVC	100+11.13	19.92	RT.	21.48	2.30	19.18

SURVEYOR'S REPORT: GROVE TERRACE

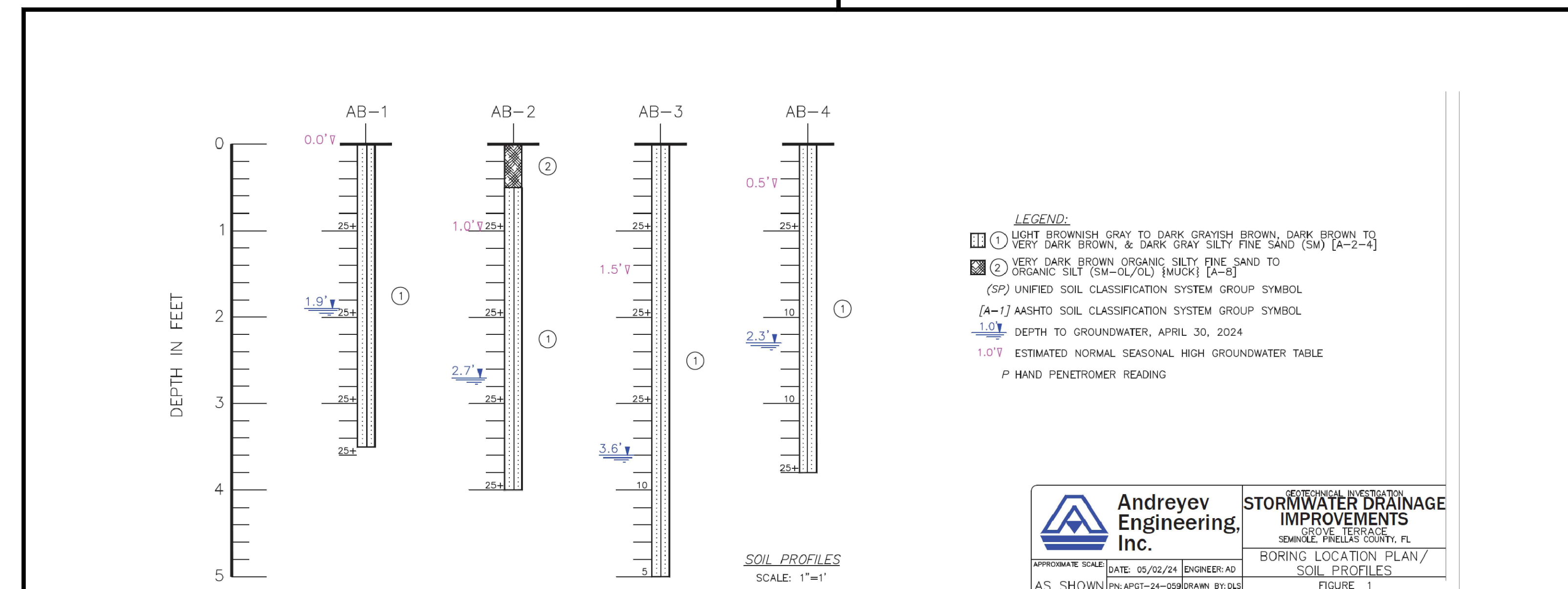
- THIS SURVEY NOT VALID UNLESS EMBOSSED OR STAMPED WITH A SURVEYOR'S SEAL.
- UNDERGROUND ENCROACHMENTS SUCH AS UTILITIES AND FOUNDATIONS, THAT MAY EXIST, HAVE NOT BEEN LOCATED.
- PARCEL NUMBERS, OWNERS NAME, ADDRESS AND LAND USE SHOWN HEREON OBTAINED FROM THE PINELLAS COUNTY PROPERTY APPRAISERS WEB SITE.
- THIS IS NOT A BOUNDARY SURVEY.
- SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" ACCORDING TO FLOOD INSURANCE RATE MAP 12103C0181H, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, LAST REVISED AUGUST 24, 2021.
- BEARINGS SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1983-2011 ADJUSTMENT.
- PARENT BENCH MARK IS PINELLAS COUNTY BENCH MARK NO. "SEMINOLE U", A PINELLAS COUNTY SURVEY DISK STAMPED "SEMINOLE U" SET ON THE TOP OF A 12" DIAMETER CONCRETE MONUMENT, LOCATED AT THE INTERSECTION OF 113TH STREET N. AND 80TH STREET N. ELEVATION = 31.56' (NAVD 1988).
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
- ON-SITE BENCH MARKS ARE DELINEATED WITHIN THE FRAMEWORK OF THE SURVEY DRAWING.
- THE SPECIFIC PURPOSE OF THIS SURVEY IS TO DELINEATE TREES FIVE INCHES (5") IN DIAMETER AND GREATER WITHIN THE LIMITS OF SUBJECT PROPERTY.

LEGEND

TOB	TOP OF BANK	L.B.	LICENSED BUSINESS
TOS	TOE OF SLOPE	EL	ELEVATION
S.P.K.N.&D.	SET P.K. NAIL AND DISK P.L.S. #4697	RCP	REINFORCED CONCRETE PIPE
F.C.I.R.	FOUND CAPPED IRON ROD	CONC	CONCRETE
F.I.R.	FOUND IRON ROD	OHU	OVERHEAD WIRE
F.C.M.	FOUND CONCRETE MONUMENT	SS	SANITARY SEWER MANHOLE
F.I.P.	FOUND IRON PIPE	LP	LIGHT POLE
VCP	VITRIFIED CLAY PIPE	WV	WATER VALVE
PVC	POLYVINYL CHLORIDE	PH	FIRE HYDRANT
INV	INVERT	WM	WATER METER
(F)	FIELD	GA	GUY ANCHOR
(P)	PLAT	UP	UTILITY POLE
(C)	CALCULATED	WV	MONITOR WATER WELL WITH CONC COLLAR
L.B.	LICENSED BUSINESS	MB	MAILBOX

TREE LEGEND

- OAK TREE (SIZE AS NOTED)
- PALM TREE (SIZE AS NOTED)



Date: 10/27/06 Time: 9:18 AM Filename: M:\Public\Seminoles\24\SEM-29 (FY24 Storm)\Cadd\Current\SEM-29_GeneralNotesLegends.dwg

NO.	REVISIONS	BY	DATE
Δ	ADDENDUM NO. 2 REVISIONS	R.S.K.	7/25/24

SCALE: AS SHOWN
DRAWN: S.A.T.
DESIGNED: R.S.K.
APPROVED: J.V.K.

ADVANCED ENGINEERING & DESIGN, INC.
3931 68th AVENUE NORTH • PINELLAS PARK, FL 33781 • Phone: (727) 526-9158



CITY OF SEMINOLE
FY24 STORMWATER IMPROVEMENTS

GENERAL NOTES & LEGENDS

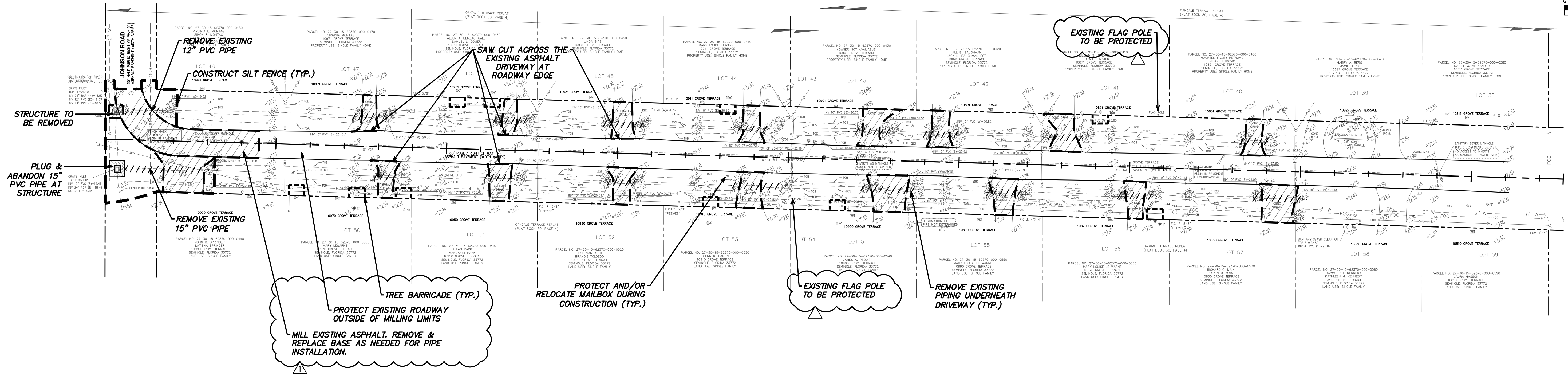
DATE: 7/01/2024
PROJECT NO: 24.SEM-29
SHEET NO: **C2**

Andreyev Engineering, Inc.
DATE: 05/02/24 ENGINEER: AD
AS SHOWN [P.N. AP1-24-058] DRAWN BY: OLS

STORMWATER DRAINAGE IMPROVEMENTS
GROVE TERRACE
SEMINOLE COUNTY, FL
BORING LOCATION PLAN/
SOIL PROFILES
FIGURE 1



0' 30' 60'
SCALE: 1" = 30'
GRAPHIC SCALE (IN FEET)



DEMOLITION NOTES:

- IT SHALL BE NOTED THAT DEMOLITION OF ADDITIONAL ITEMS AND FEATURES MAY BE NEEDED IN ORDER TO COMPLETE THE WORK. ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR THE DEMOLITION OF ANY INCIDENTAL ITEMS NOT EXPLICITLY SHOWN TO BE REMOVED ON THESE PLANS.
- DRIVEWAY DEMOLITION LIMITS SHALL MATCH THE DRIVEWAY REPLACEMENT LIMITS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL PROVIDE A STABILIZED SURFACE FOR VEHICULAR USAGE AFTER DRIVEWAY DEMOLITION. MILLINGS, AGGREGATE OR OTHER MATERIAL SHALL BE USED, AS NEEDED. SEPARATE PAYMENT WILL NOT BE MADE FOR TEMPORARY DRIVEWAY ACCOMMODATIONS. VEHICLE ACCESS TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEMOLISHED MATERIAL.
- PRIOR TO COMMENCING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS TO REMOVE EXISTING PARKWAY FEATURES (DECORATIVE ELEMENTS, PLANTERS, ETC.).
- THE CONTRACTOR SHALL MAKE ALL EFFORTS TO PROTECT EXISTING FEATURES PROPOSED TO REMAIN. PROTECTION EFFORTS SHALL BE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.

TREE PROTECTION REQUIREMENTS:

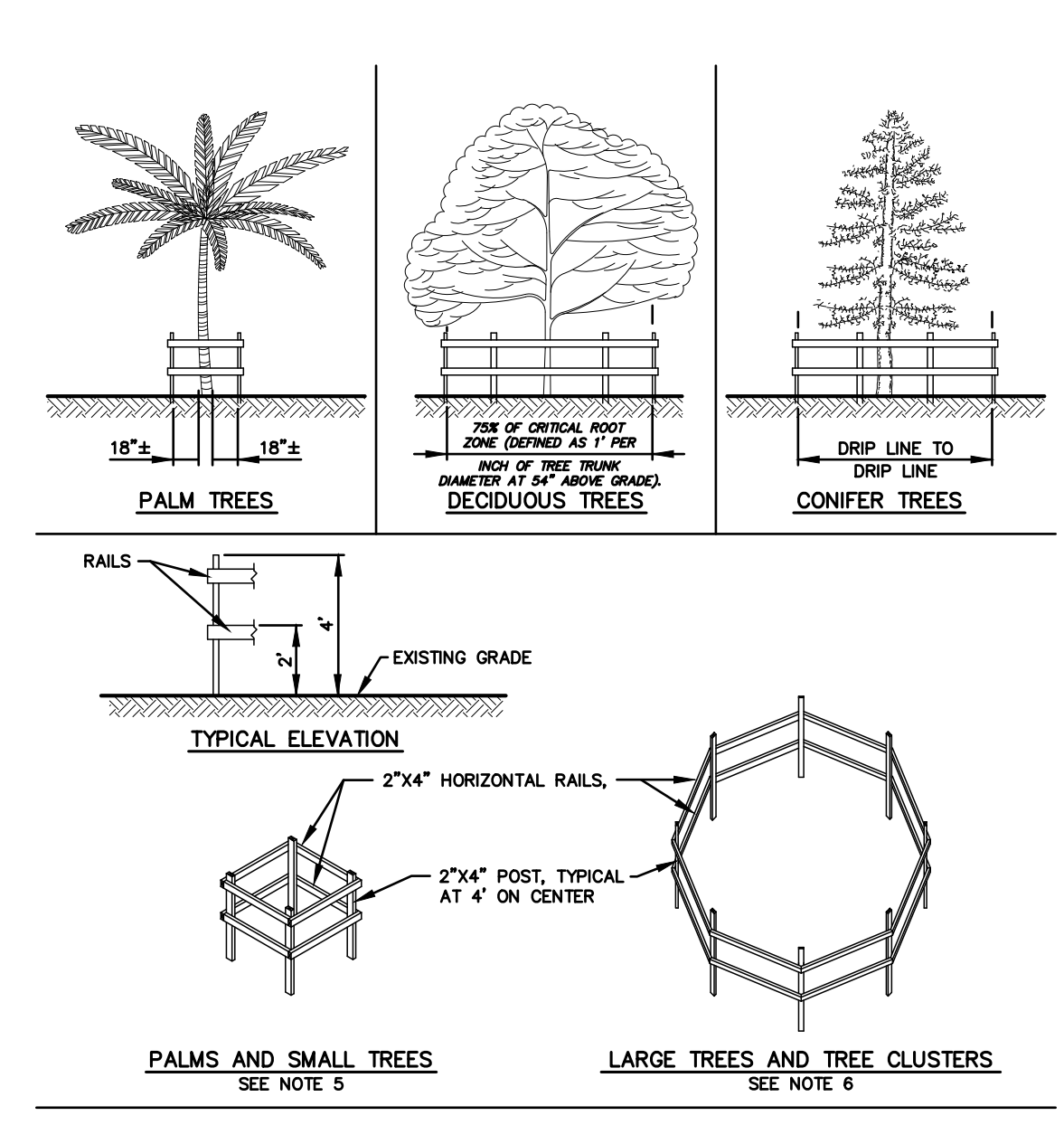
- CONSTRUCT TREE BARRICADES PER GENERAL DETAILS. DIMENSION MODIFICATION MAY BE NEEDED TO SUPPORT CONSTRUCTION ACTIVITIES. OBTAIN CITY APPROVAL PRIOR TO REVISING STANDARD TREE BARRICADE DIMENSIONS.
- WHERE TREES ARE NOT LOCATED ENTIRELY WITHIN THE RIGHT-OF-WAY, TERMINATE TREE BARRICADE AT PROPERTY LINE.
- ALL TREE PRUNING AND/OR ROOT PRUNING ON EXISTING TREES TO BE PRESERVED WILL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST. FURTHERMORE, ALL TREE WORK SHALL CONFORM TO THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 2001, AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS - TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (PRUNING) ANSI A-300.

- WHERE CALLED FOR ON THE PLANS, INSTALL TREE BARRICADES, EROSION CONTROL/SILT FENCING OR OTHER APPROVED PROTECTIVE BARRIERS AROUND ALL TREES TO BE PRESERVED, PER DETAIL. WHERE APPLICABLE, AND SPECIFICALLY APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE, PROTECTIVE BARRIERS MAY BE PLACED IN ROOT PRUNE TRENCHES.
- PRIOR TO ANY FIELD CHANGES TAKING PLACE, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE POTENTIAL IMPACTS TO EXISTING TREES WITH A CERTIFIED ARBORIST, AND INCLUDE ANY AND ALL RECOMMENDED TREE PROTECTION MEASURES IN THE PROPOSAL TO MODIFY THE APPROVED DESIGN. THE CITY'S ENGINEERING REPRESENTATIVE MUST APPROVE, IN WRITING, ANY CHANGES TO THE APPROVED DESIGN PRIOR TO IMPLEMENTATION OF SAID CHANGE.
- THE CONTRACTOR WILL AVOID ANY OPEN EXCAVATIONS, FILL OR OTHER CONSTRUCTION ACTIVITIES WHENEVER POSSIBLE WITHIN THE "CRITICAL ROOT ZONE" OF ANY EXISTING TREE (I.E., UNDER THE DRIP LINE/CANOPY).
- NO VEHICLES, EQUIPMENT OR MATERIALS SHALL BE PARKED OR STORED UNDER/WITHIN THE DRIP LINE/PROTECTIVE BARRIER AREA OF ANY TREE.
- WHERE CONSTRUCTION ACTIVITIES ARE ANTICIPATED TO LAST FOR AN EXTENDED PERIOD OF TIME NEAR EXISTING TREES, THE CONTRACTOR SHALL INSTALL AND MAINTAIN CITY APPROVED TREE BARRICADES AS SHOWN IN THE STANDARD DETAILS AND AS APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE.
- WOODCHIPS, MULCH OR ANOTHER CUSHIONING SURFACE MATERIAL APPROVED BY THE CITY'S ENGINEERING REPRESENTATIVE SHALL BE PLACED TO A MINIMUM DEPTH OF TEN (10) INCHES OVER AREAS WHERE ROOTS ARE PRESENT AND CONSTRUCTION TRAFFIC OCCURS.
- ALL TREE PROTECTION MEASURES SHALL REMAIN IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL THE CITY'S ENGINEERING REPRESENTATIVE AUTHORIZES REMOVAL.

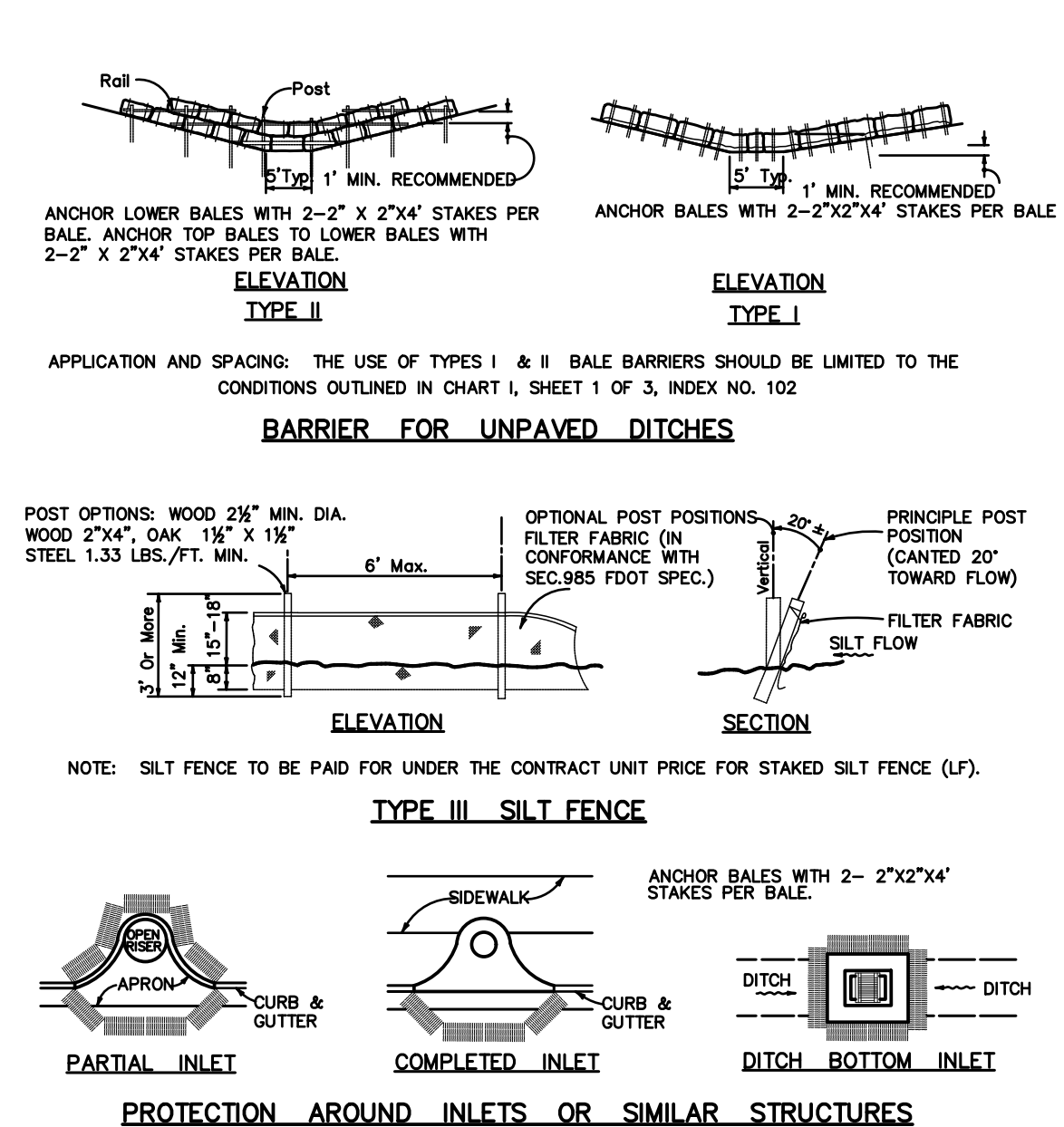
EROSION AND SEDIMENT CONTROL:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS. MODIFY PRESENTED PLANS, AS NEEDED, TO ENSURE ADHERENCE TO THIS REQUIREMENT.

- THE CONTRACTOR MUST OBTAIN A FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER, IF DEWATERING WITH OFFSITE DISCHARGE WILL BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PRELIMINARY WATER SAMPLES TO SATISFY THE FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER. SAMPLING SHALL OCCUR THIRTY (30) DAYS PRIOR TO THE START OF DEWATERING.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND POLLUTION SHALL BE MINIMIZED. THE SUBMITTED SWPPP SHALL BE COMPLIED WITH. ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS SHALL BE COMPLIED WITH AT ALL TIMES.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE AFFECTED AREAS USING SPRINKLING IRRIGATION OR OTHER MEANS.
- SILT FENCING SHALL BE PLACED AROUND ALL STOCKPILE AND SPOIL AREAS.
- THE CONTRACTOR SHALL COMPLETE ALL CITY-MANDATED NPDES TRAINING PRIOR TO MOBILIZING TO THE SITE.
- THE CONTRACTOR SHALL INCORPORATE WASHDOWN AREAS OR SOIL TRACKING DEVICES AT LOCATIONS WHERE CONSTRUCTION VEHICLES ENTER AND EXIT THE SITE.
- DEBRIS SHALL BE REMOVED FROM VEHICLE USE AREAS ON A DAILY BASIS.
- A STORMWATER POLLUTION PREVENTION PLAN HAS BEEN PROVIDED FOR THE CONTRACTOR'S USE. THE CONTRACTOR SHALL SUPPLEMENT AND/OR REVISE THIS PLAN, AS NEEDED, TO SUCCESSFULLY CONTROL SEDIMENT AND PREVENT EROSION THROUGHOUT THE DURATION OF CONSTRUCTION.
- REFERENCE THE SPECIFICATIONS FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS.



- NOTES:**
- NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS, ONLY HAND LABOR ALLOWED.
 - NO CONSTRUCTION MATERIALS, SOIL DEPOSITS, OR SOLVENTS SHALL BE ALLOWED INSIDE BARRIERS.
 - BARRIERS ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES NEAR TREES.
 - BARRIERS ARE TO REMAIN IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT ARE REMOVED FROM THE AREA.
 - FOR SINGLE-PALM TREES AND TREES FROM 1" TO 8" DBH.
 - FOR LARGER TREES LARGER THAN 8" DBH AND TREE CLUSTERS THAT NEED BARRIERS.



- NOTES:**
- EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION TO PREVENT THE INFILTRATION OF PROJECT SITE SOILS INTO A PUBLIC DRAINAGE SYSTEM.
 - FOR ADDITIONAL DETAIL, REFER TO F.D.O.T. INDEX #102 & #103 (2008)
 - ACTUAL LOCATION OF EROSION CONTROL DEVICES TO BE DETERMINED BY CONTRACTOR WHEN CONSIDERING OVERALL WORK APPROACH.

NO.	REVISIONS	BY	DATE
1	ADDENDUM NO 2 REVISIONS	R.S.K.	7/25/24

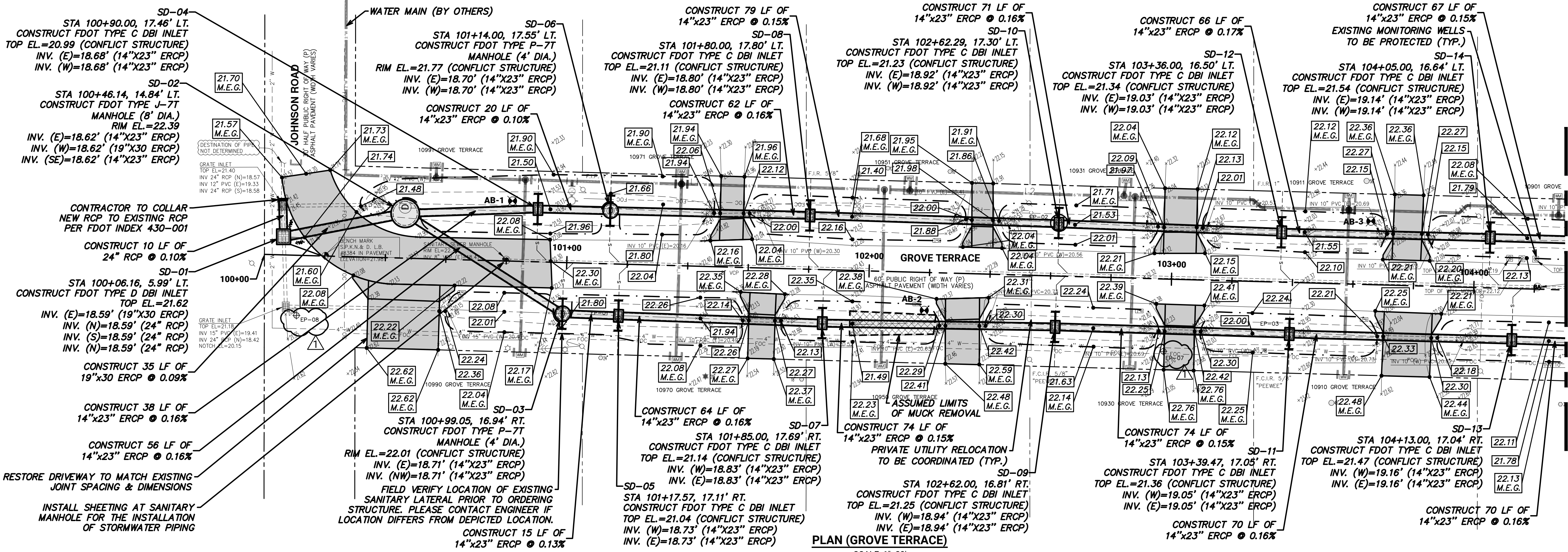
SCALE: AS SHOWN
DRAWN: S.A.T.
DESIGNED: R.S.K.
APPROVED: J.V.K.

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ENGINEERING & DESIGN, INC.
3931 68th AVENUE NORTH • PINELLAS PARK, FL 33781 • Phone: (727) 526-9158

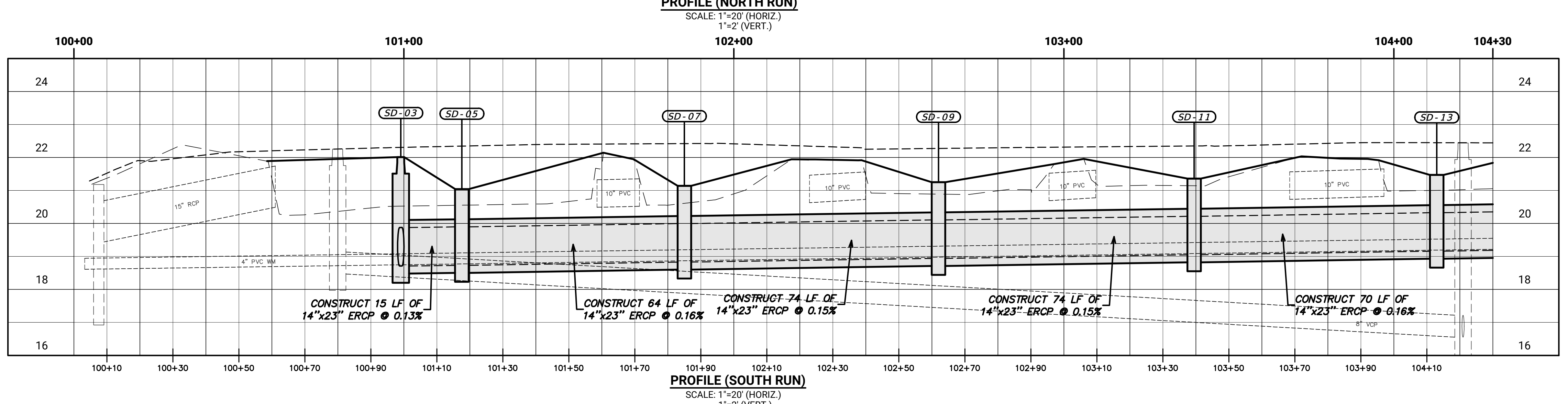
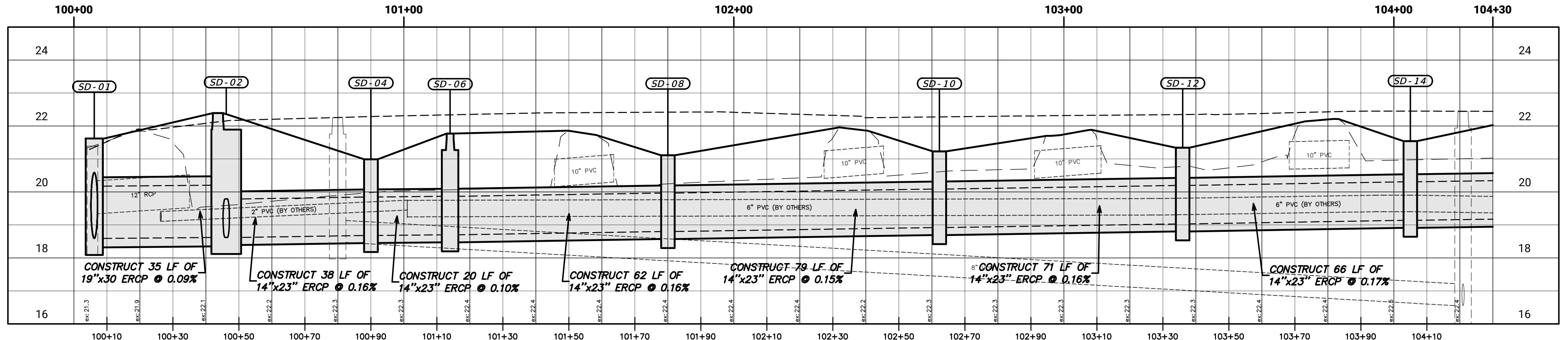
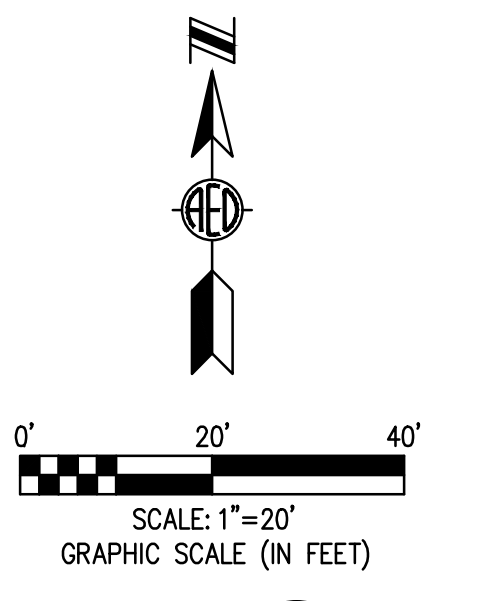


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Date: 10/27/06 Time: 9:18 AM Filename: M:\Public\Seminoles\24\SEM-29 (FY24 Storm)\Cadd\Current\SEM-29_Plan&Profile_Grove Terrace.dwg



- NOTES:**
- CONTRACTOR SHALL CONFIRM LOCATIONS OF SANITARY LATERALS PRIOR TO STRUCTURE FABRICATION. CONTRACTOR SHALL ADJUST STRUCTURE INVERTS ELEVATIONS TO MAINTAIN PIPE SLOPE. ANY DEVIANCE FROM THE LATERAL LOCATIONS DEPICTED ON PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - CONTRACTOR HAS THE OPTION TO CAST-IN-PLACE STORMWATER CONFLICT STRUCTURES IN LIEU OF UTILIZING PRE-CAST STRUCTURES. REFERENCE DETAILS ON SHEET C11 FOR BOTH OPTIONS.
 - EXISTING SANITARY LATERAL MATERIAL IS CLAY (VCP).
 - EXISTING PINELLAS COUNTY VCP SANITARY GRAVITY SYSTEM IS LINED.



NO.	REVISIONS	BY	DATE
1	ADDENDUM NO. 2 REVISIONS	R.S.K.	7/25/24

SCALE: 1"=20' (HORZ.)
1"=2' (VERT.)

DRAWN: S.A.T.
DESIGNED: R.S.K.
APPROVED: J.V.K.

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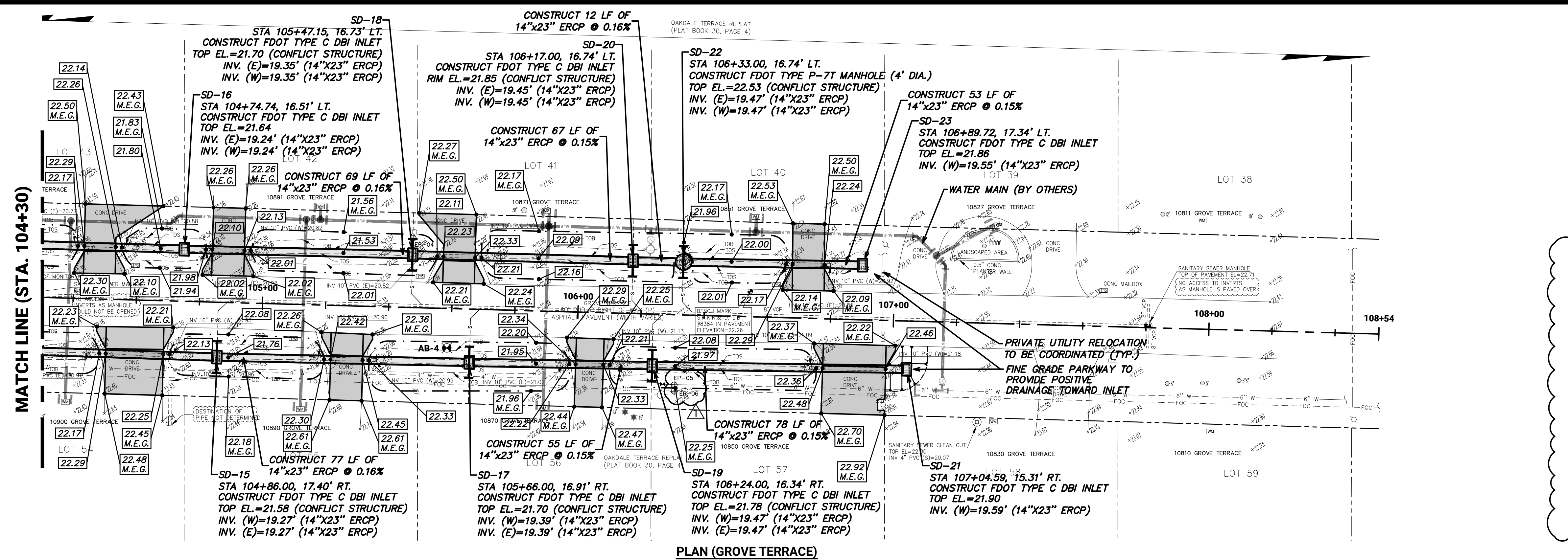


CITY OF SEMINOLE

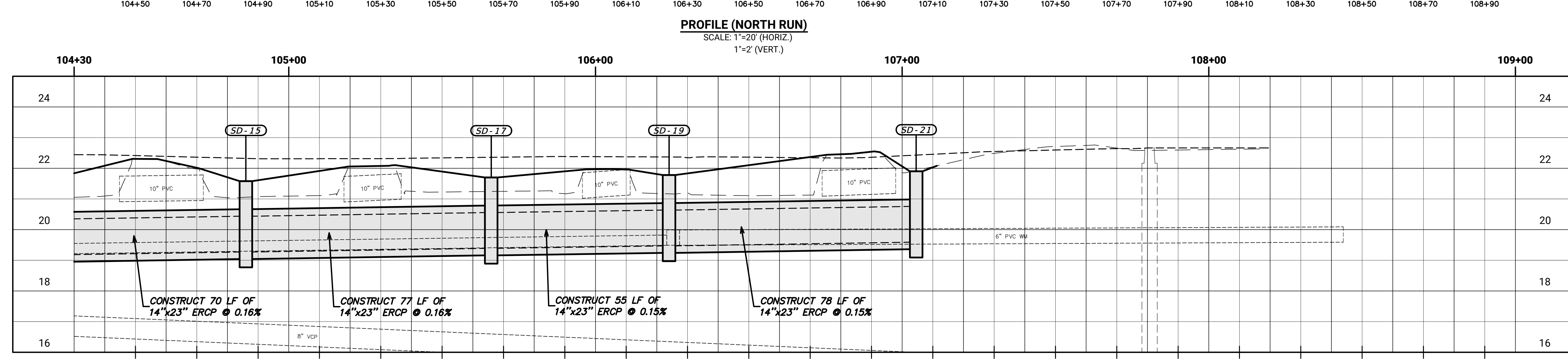
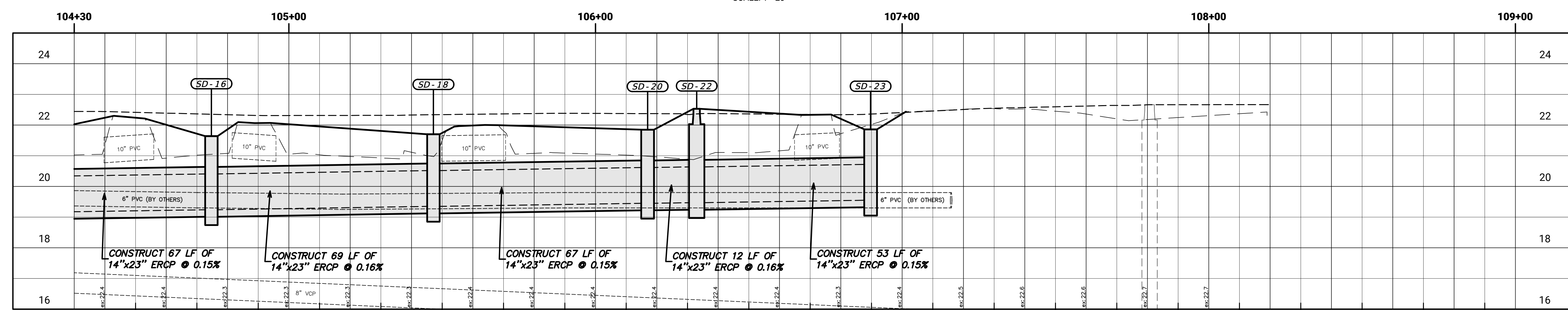
FY24 STORMWATER IMPROVEMENTS

PLAN & PROFILE
(GROVE TERRACE)

DATE: 7/01/2024
PROJECT NO: 24.SEM-29
SHEET NO: **C6**



- NOTES:**
1. CONTRACTOR SHALL CONFIRM LOCATIONS OF SANITARY LATERALS PRIOR TO STRUCTURE FABRICATION. CONTRACTOR SHALL ADJUST STRUCTURE INVERTS ELEVATIONS TO MAINTAIN PIPE SLOPE. ANY DEVIANCE FROM THE LATERAL LOCATIONS DEPICTED ON PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 2. CONTRACTOR HAS THE OPTION TO CAST-IN-PLACE STORMWATER CONFLICT STRUCTURES IN LIEU OF UTILIZING PRE-CAST STRUCTURES. REFERENCE DETAILS ON SHEET C11 FOR BOTH OPTIONS.
 3. EXISTING SANITARY LATERAL MATERIAL IS CLAY (VCP).
 4. EXISTING PINELLAS COUNTY VCP SANITARY GRAVITY SYSTEM IS LINED.



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NO.	REVISIONS	BY	DATE
1	ADDENDUM NO. 2 REVISIONS	R.S.K.	7/25/24

SCALE: 1"=20' (HORIZ.)
1"=2' (VERT.)

DRAWN: S.A.T.
DESIGNED: R.S.K.
APPROVED: J.V.K.

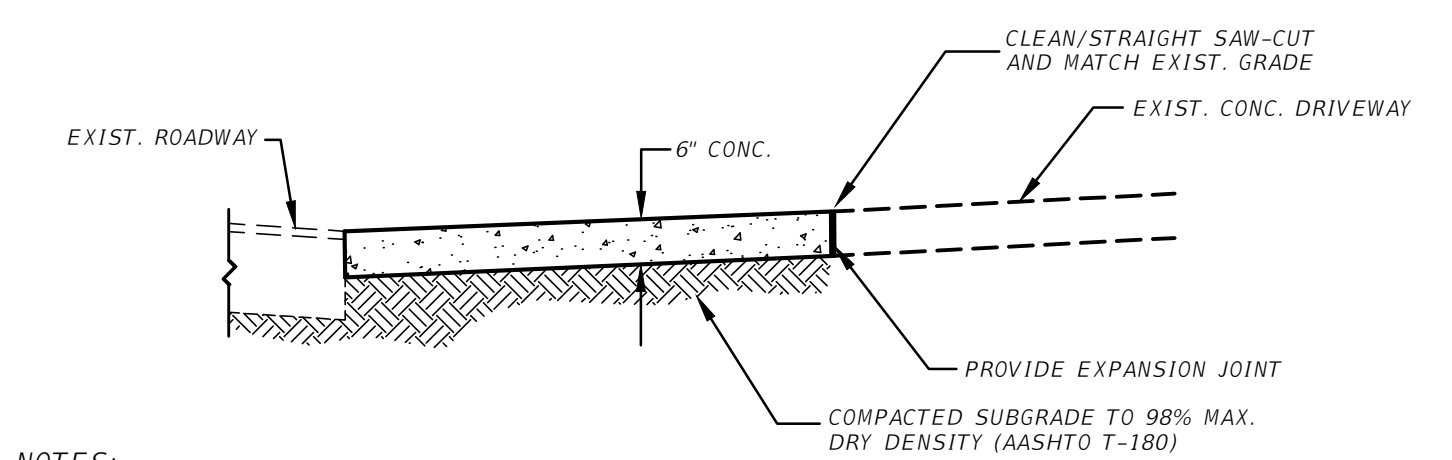
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CITY OF SEMINOLE
FY24 STORMWATER IMPROVEMENTS

PLAN & PROFILE (GROVE TERRACE)

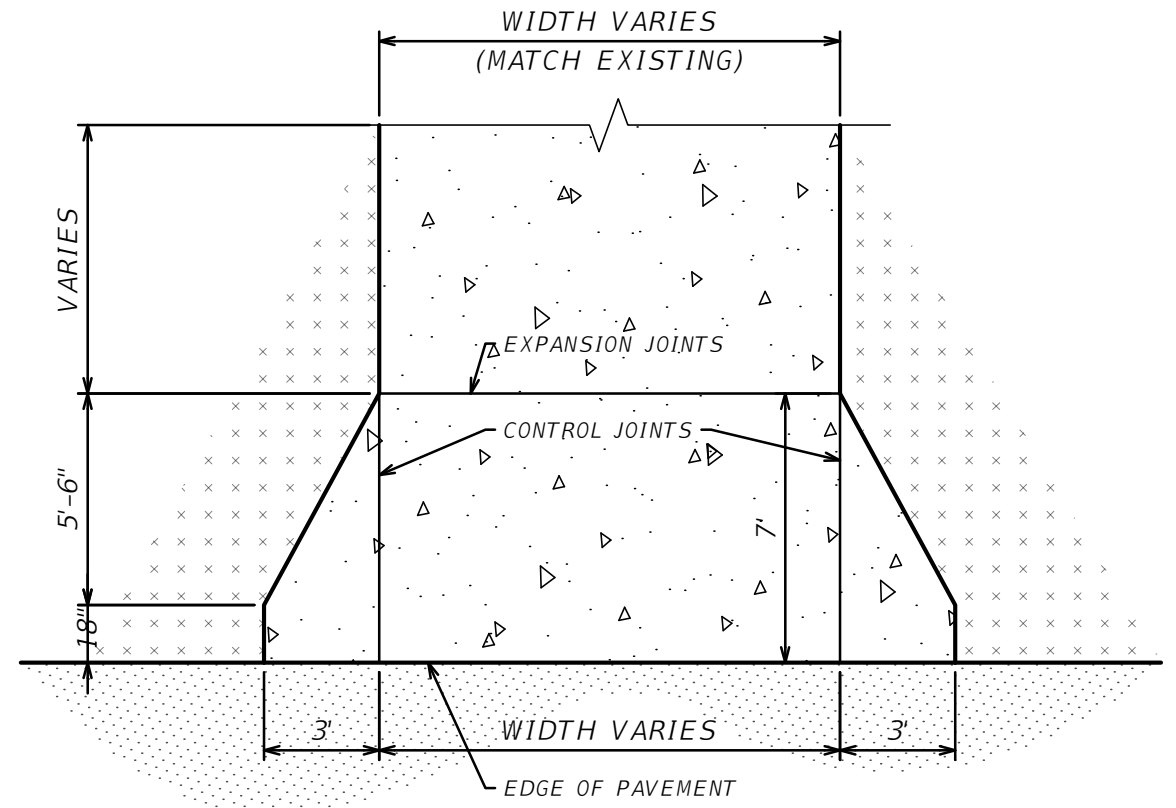
DATE:	7/01/2024
PROJECT NO.:	24.SEM-29
SHEET NO.:	C7



- NOTES:**
- THIS DETAIL SHALL BE UTILIZED IN AREAS WHERE EXISTING CONCRETE DRIVEWAYS REQUIRE RECONSTRUCTION.
 - EXPANSION JOINTS SHALL BE INSTALLED AS NEEDED.
 - EXPANSION JOINTS SHALL CONSIST OF CONTINUOUS 1/2" BITUMINOUS EXPANSION STRIP.
 - CONCRETE SHALL BE PORTLAND CEMENT CONCRETE - CLASS NS PER FDOT SPECIFICATION SECTION 347.

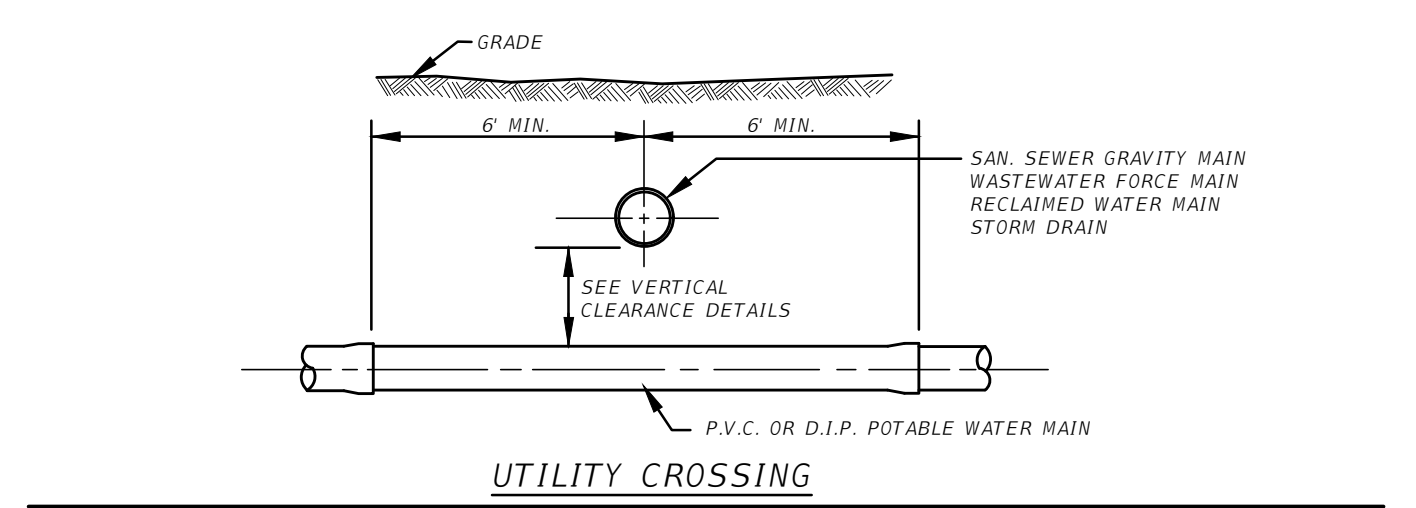
CONCRETE DRIVEWAY

1 DRIVEWAY RECONSTRUCTION SECTION
NOT TO SCALE

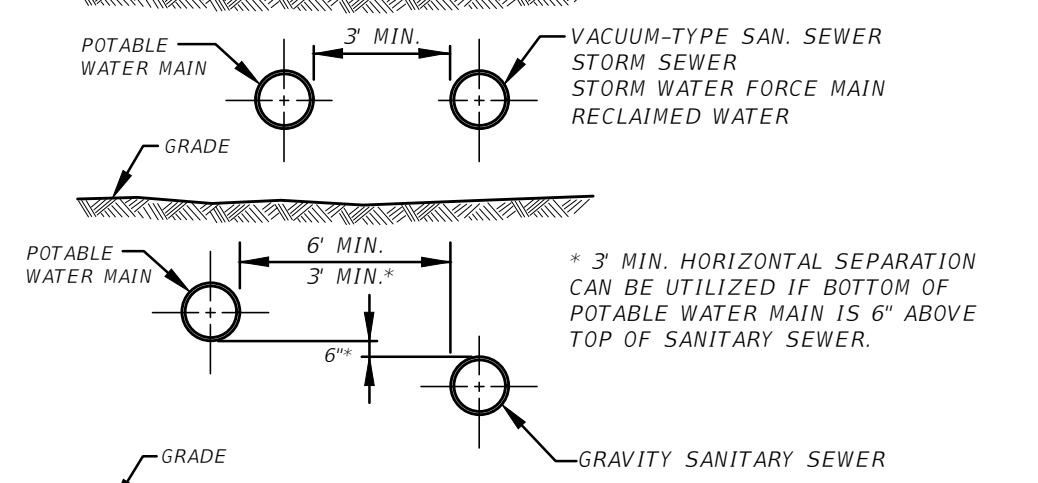


NOTE: MATCH EXISTING DRIVEWAY WIDTH AT RIGHT-OF-WAY AND MAINTAIN WIDTHS TO EDGE OF PAVEMENT.

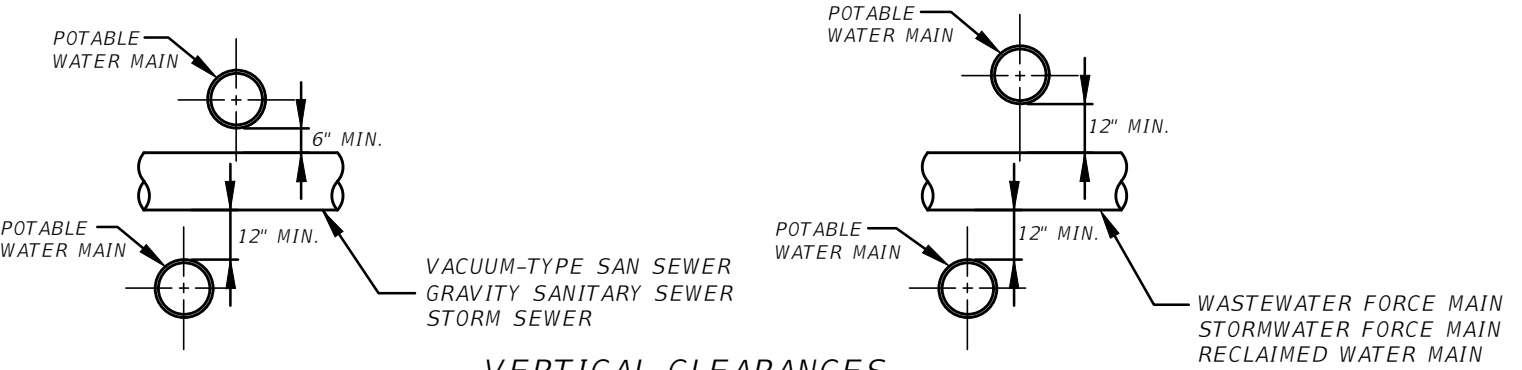
2 RESIDENTIAL DRIVEWAY DIMENSIONS
SCALE: 1"=5'



UTILITY CROSSING

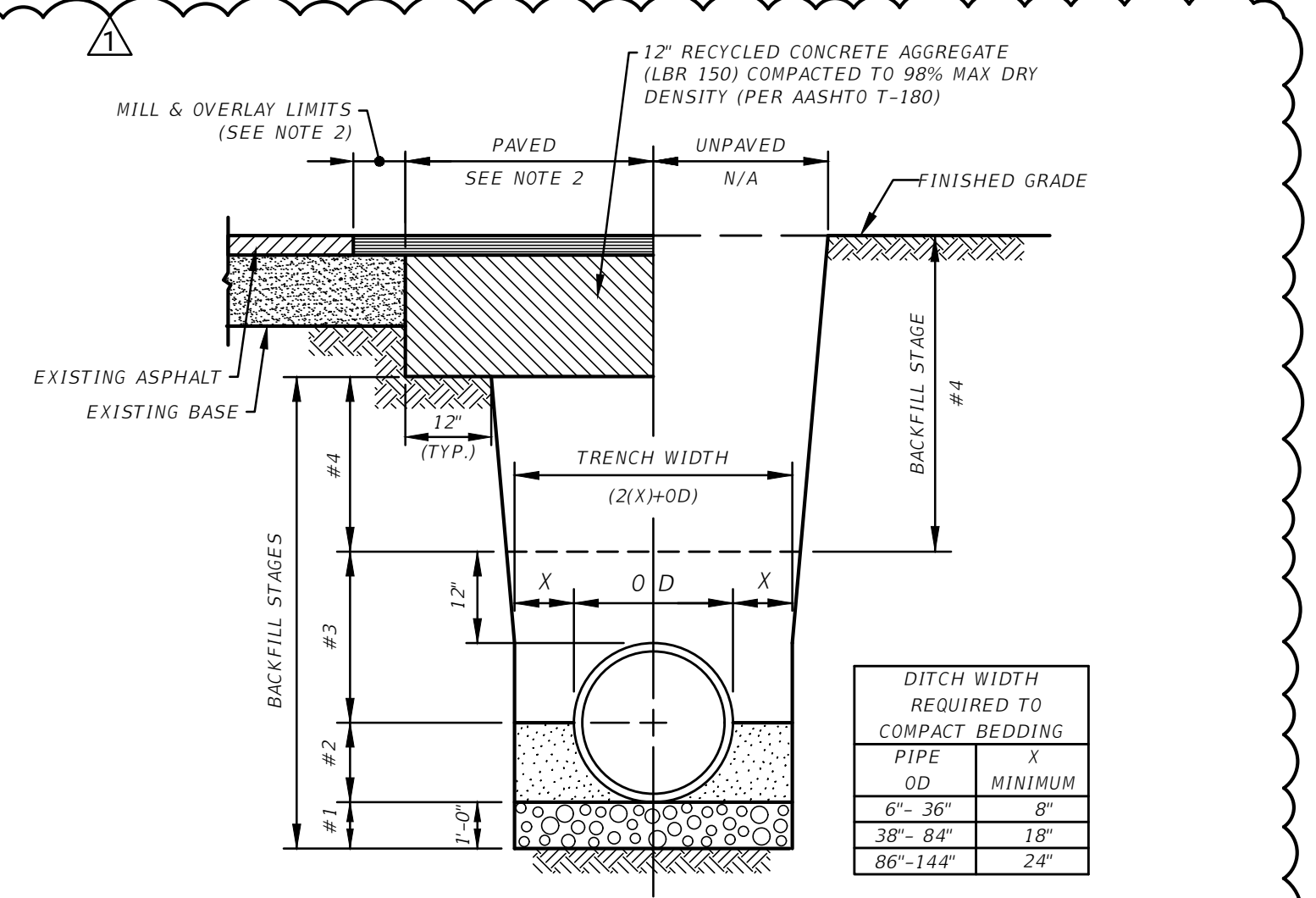


HORIZONTAL CLEARANCES



VERTICAL CLEARANCES

3 WATER MAIN AND SANITARY SEWER CLEARANCES
NOT TO SCALE

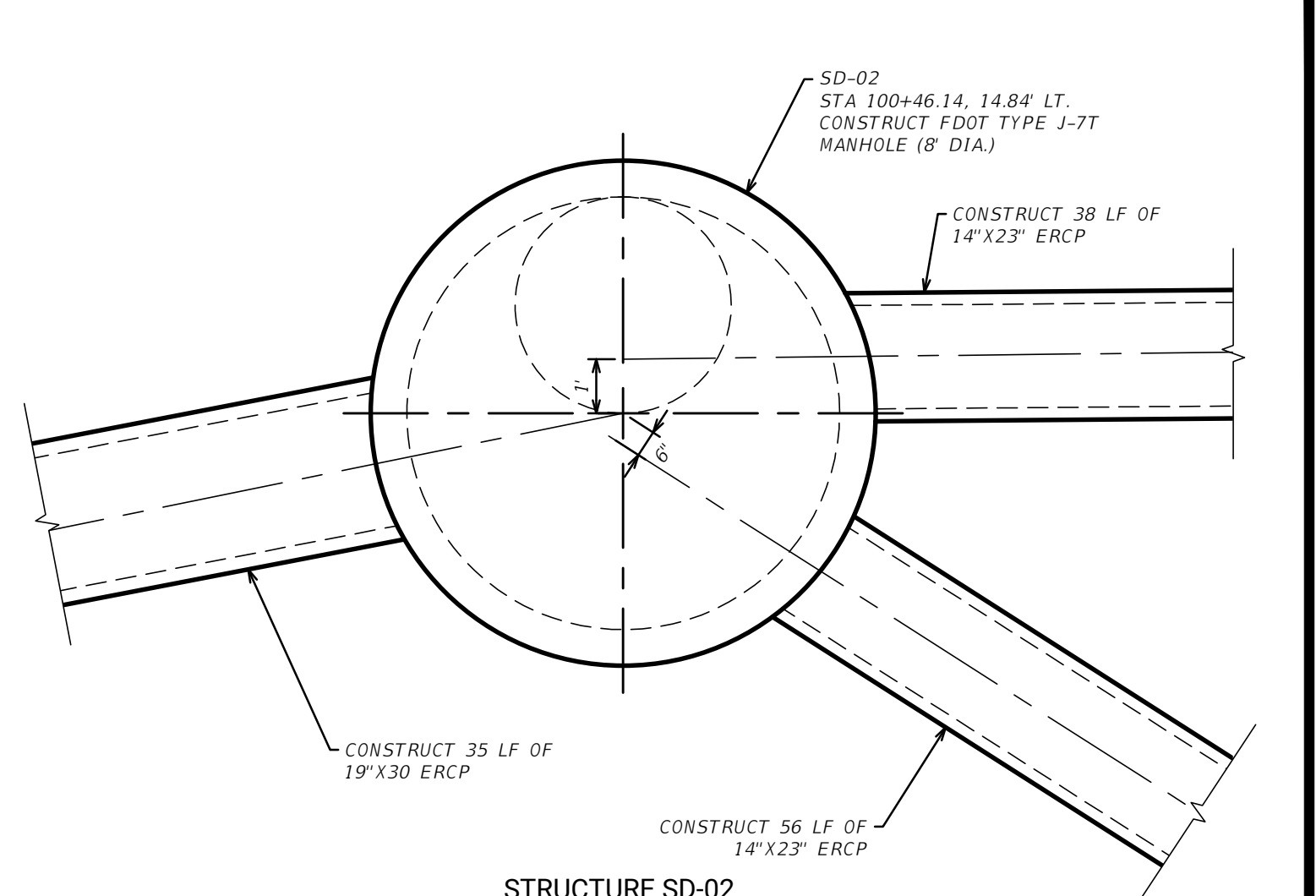


DITCH WIDTH REQUIRED TO COMPACT BEDDING	
PIPE OD	X MINIMUM
6" - 36"	8'
38" - 64"	18'
86" - 144"	24'

STAGE	MATERIAL
#1	BEDDING: RECYCLED CONCRETE AGGREGATE (SEE NOTE 3)
#2	PIPE BEDDING: LOCAL SAND
#3	PIPE BACKFILL: LOCAL SAND TO 6" ABOVE TOP OF PIPE
#4	TRENCH BACKFILL: PAVED/BRICK SURFACE - IN 6" LIFTS UNPAVED ROAD - IN 6" LIFTS GRASS SURFACE - IN 12" LIFTS

- NOTES:**
- ALL BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED AS PER SPECIFICATION.
 - PAVEMENT SHALL BE 1.5" FDOT SP-9.5 (FINE) FOR TRAFFIC LEVEL C.
 - RECYCLED CONCRETE AGGREGATE SHALL BE #57 AS SPECIFIED IN FDOT SECTION 901 AND FULLY WRAPPED WITH A LAYER OF TYPE D-4 FILTER FABRIC AS SPECIFIED IN SECTION 985.

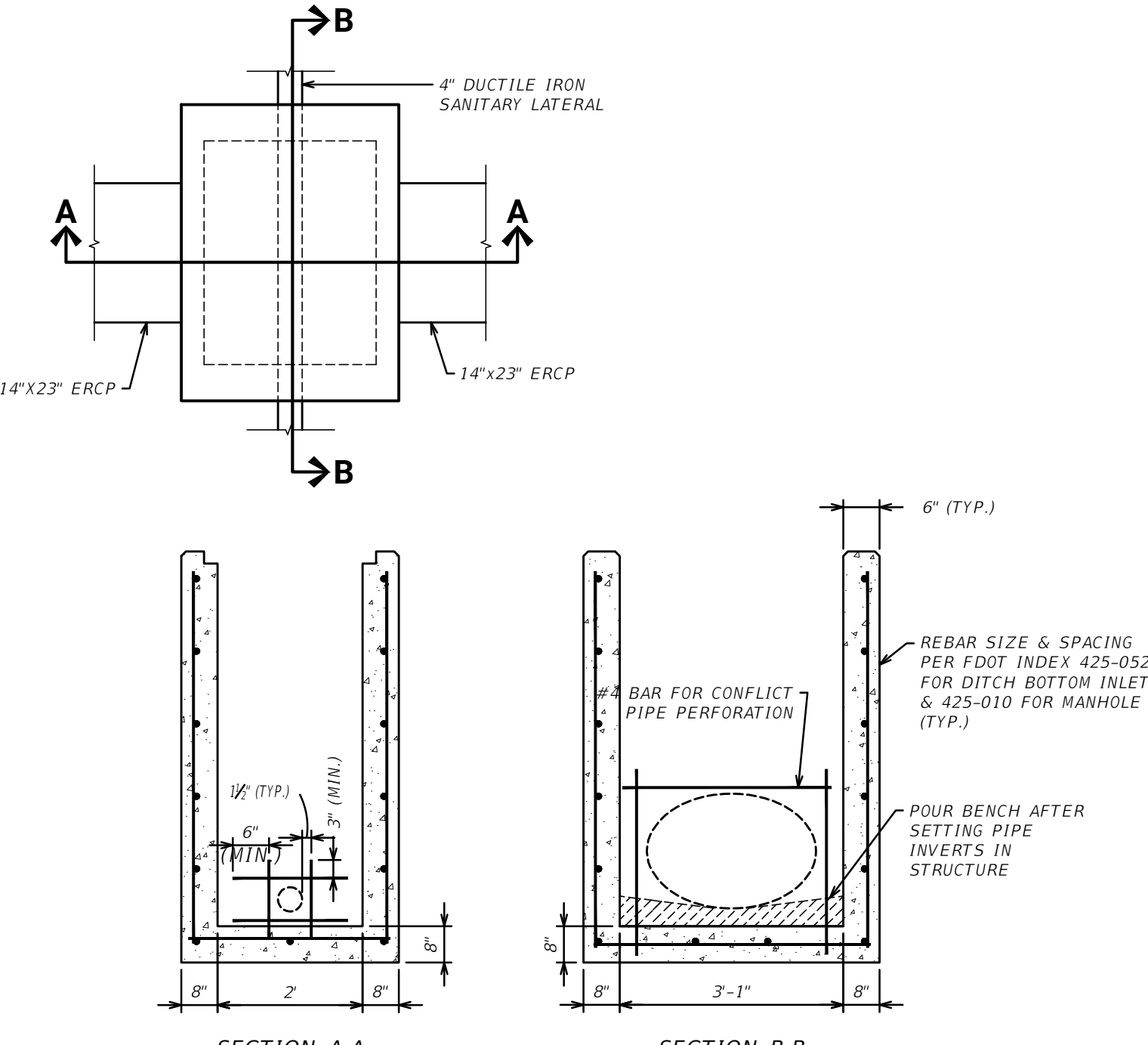
4 PIPE BEDDING DETAIL
NOT TO SCALE



STRUCTURE SD-02

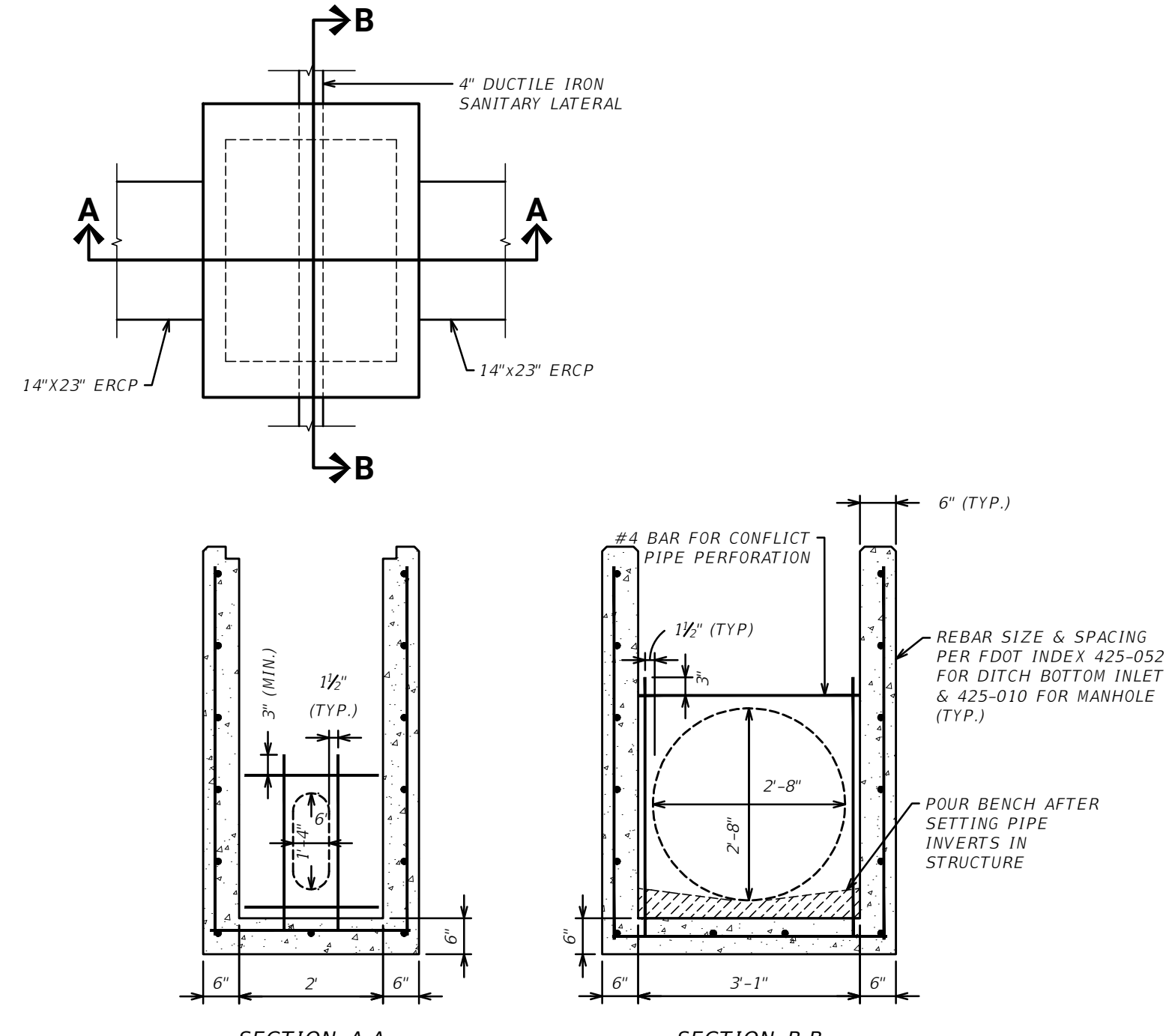
STRUCTURE SD-05

5 PIPE OFFSET AT STRUCTURE SD-02 & SD-05
SCALE=1"=3'



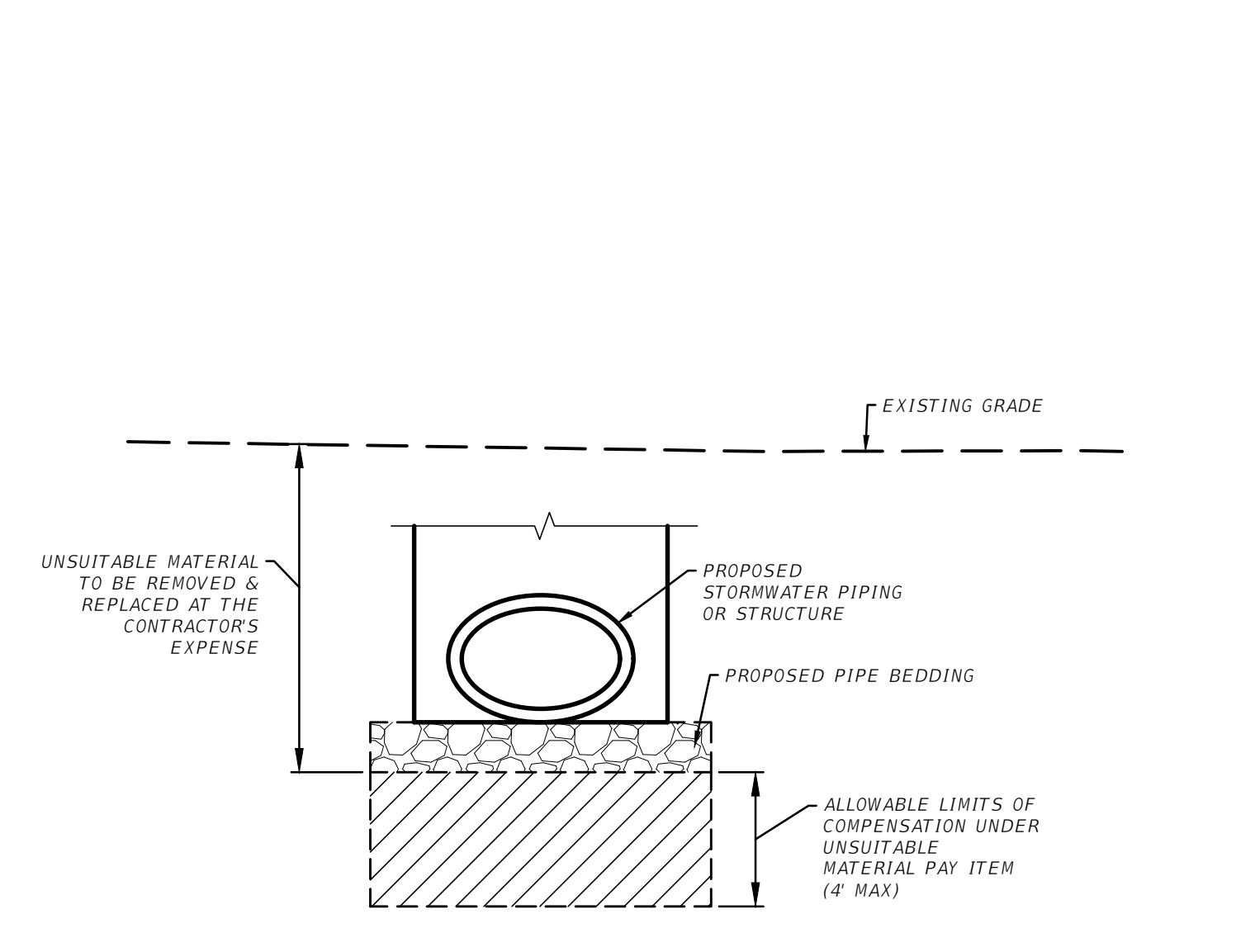
NOTE: SEE FDOT INDEX 425-001 FOR DISTRIBUTION JOINT OPTIONS, REINFORCEMENT SPLICE DETAILS & TYPICAL SLAB TO WALL DETAILS.

6 CAST-IN-PLACE CONFLICT STRUCTURE (OPTION 1)
N.T.S.



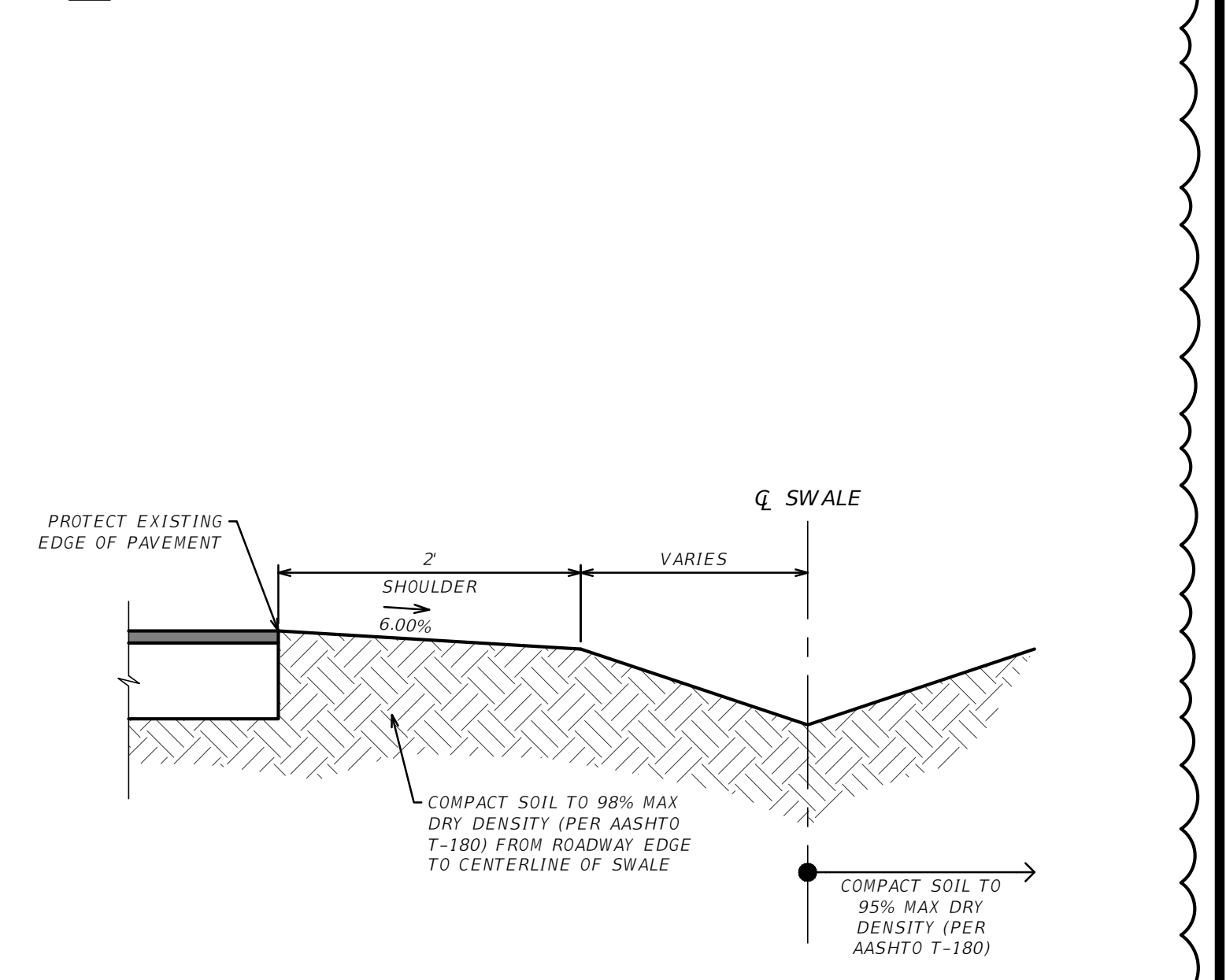
- NOTE:**
- PIPE OPENINGS TO BE OVERSIZED VERTICALLY TO ALLOW FOR STRUCTURE PLACEMENT ADJUSTMENTS DUE TO POTENTIAL VARIANCES OF LATERAL LOCATIONS IN THE FIELD.
 - IT IS RECOMMENDED THAT THE CONTRACTOR PERFORMS EXPLORATORY WORK TO VERIFY LOCATION & DEPTH OF ALL LATERALS PRIOR TO ORDERING STRUCTURES TO LIMIT THE PIPE OPENINGS.

7 PRECAST CONFLICT STRUCTURE (OPTION 2)
N.T.S.



- NOTES:**
- PIPE LOCATION & ELEVATION IN RELATION TO THE EXISTING GRADE SHALL BE DETERMINED BY THE PLAN & PROFILE. PIPE LOCATION SEEN ABOVE IS SCHEMATIC IN NATURE.
 - IF NEEDED, THE CONTRACTOR SHALL OBTAIN MATERIAL TESTING, AT NO COST TO THE CITY, TO DETERMINE SUITABILITY OF MATERIAL.

8 UNSUITABLE MATERIALS COMPENSATION LIMITS
N.T.S.



COMPACT SOIL TO 95% MAX DRY DENSITY (PER AASHTO T-180) FROM ROADWAY EDGE TO CENTERLINE OF SWALE

9 SHOULDER GRADING
SCALE=1"=10'

NO.	REVISIONS	BY	DATE
Δ	ADDENDUM NO.2 REVISIONS	R.S.K.	7/25/24

SCALE: AS SHOWN
DRAWN: S.A.T.
DESIGNED: R.S.K.
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CITY OF SEMINOLE
FY24 STORMWATER IMPROVEMENTS

GENERAL DETAILS

DATE: 7/01/2024
PROJECT NO: 24.SEM-29
SHEET NO: **C11**

Date: 10/27/06 Time: 9:18 AM Filename: M:\Public\Seminoles\24\SEM-29 (FY24 Storm)\Code\Current\SEM-29_Gen_Details.dwg



JOHNSON RD

GROVE TERR

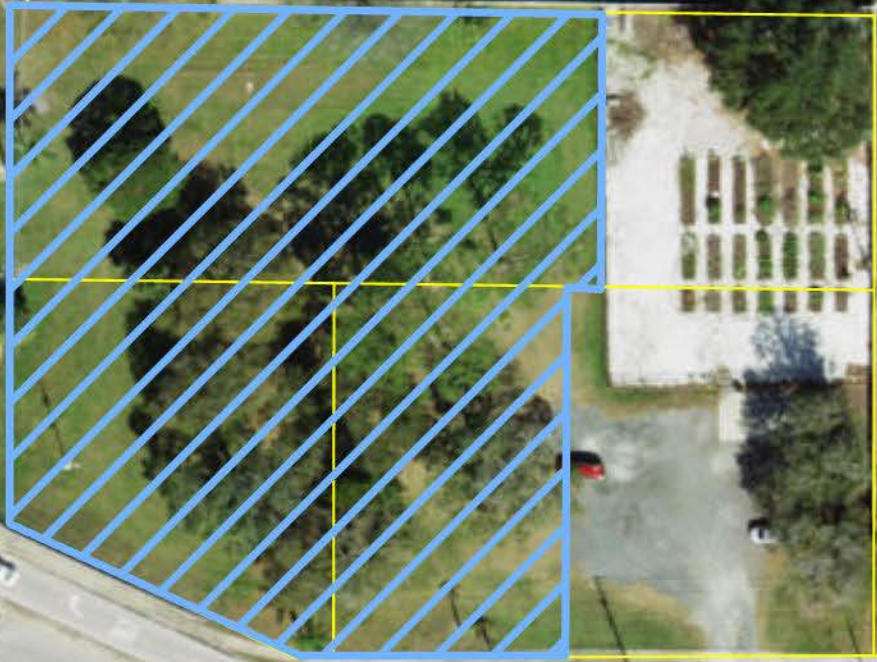
80TH AVEN

LIBERTY LN



**70TH
TERR N**

113TH ST N



70TH AVE N

PINELLAS TRL