SUBMITTAL SUMMARY REPORT
33511

PLAN NAME: SR200 & HWY484 MASTER INFRASTRUCTURE **LOCATION:**

APPLICATION DATE: 10/13/2025 **PARCEL:** 35341-002-01

DESCRIPTION:

CONTACTS	NAME	COMPANY
Applicant	Kimley Horn	KIMLEY-HORN AND ASSOCIATES, INC
Applicant	Kimley Horn	KIMLEY-HORN AND ASSOCIATES, INC
Engineer of Record	Kimley Horn	KIMLEY-HORN AND ASSOCIATES, INC
Engineer of Record	Kimley Horn	KIMLEY-HORN AND ASSOCIATES, INC

SUBMITTAL	STARTED	DUE	COMPLETE	STATUS
OCE: Plan Review (DR) v.1	10/21/2025	11/05/2025	12/08/2025	Requires Re-submit
OCE: Plan Review (DR) v.2				Not Received

SUBMITTAL DETAILS

OCE: Plan Review (DR) v.1

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
911 Management (DR) (911 Management)		11/05/2025	11/13/2025	Requires Re-submit

Comments

YES 2.12.8 - Legal description matches boundary on plan
NO 2.12.28 - Correct road names supplied Sheets C4.0, C4.1, C6.2, C6.3, L1.00, L1.03, L1.05, L2.00, L2.03, & L2.05 have SW HWY 200 incorrectly labeled as STATE ROAD 200. Sheets C6.2, C6.3, & C6.4 have SW HWY 484 incorrectly labeled as SR 484. Added new road names to sheets C4.0, C4.1, please add to all applicable sheets on all future submittals.
YES 6.2.1.F - North arrow and graphic drawing and written scale
NO Additional 911 comments Address at the top of Sheet C0.0 should be listed as TBD SW HWY 484. The lot layout and road configuration on this Major Site Plan is different than what was submitted on the Prelim.

Environmental Health (Plans) (Environmental Health)		11/05/2025	11/13/2025	Requires Re-submit

Comments

YES Central Sewer Central Sewer
N/A Lot Size
N/A Total Flow
N/A Available Area
YES DEP Water Approval Central Water
N/A Operating Permit Required
N/A 2.12.6 - Location of septic systems & wells
N/A 2.12.36 - Location of water & septic systems
INFO Additional Health comments Central Sewer/Central Water

Fire Marshal (Plans) (Fire)		11/05/2025	11/13/2025	Approved

Comments

INFO 6.18.2 - Fire Flow/Fire Hydrant Advisory informational note. Once lots 1,2,3 are developed any structures over 1200 sqft will require fire department water supply. For clarification on the utility page, the hydrant shall be flow tested and witnessed by an inspector and painted per NFPA 291
N/A 6.18.3 - Gated Communities/Properties
N/A 6.18.4 - Wildland Interface Area
N/A 6.18.5 - Access Control Box
N/A 6.18.2.D - Fire Department Connections
N/A NFPA 1 Chapter 11.10.1 - In Building Minimum Radio Signal Strength
YES 6.18.2.G - Painting and Marking of Fire Hydrants
NO NFPA 1 Chapter 18.2.3 - Fire Dept Access Roads The plans appear to use an older emergency vehicle detail. Please contact the Marion County Fire Prevention office for an updated spec sheet on the largest apparatus. Also there are some areas where is appears that the apparatus is driving over curbs such as the convenience store south west entry. Also near the north west corner of lot 1.
N/A Additional Fire comments

Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Jared Rivera	11/05/2025	11/14/2025	Requires Re-submit

Corrections

4.4 - Show proposed signs to meet LDC Sec 4.4 (**Not Resolved**) - **Corrective Action:** Signage Plan should be included in resubmittal. - 4.4 - Show proposed signs to meet LDC Sec 4.4: If sign(s) is proposed on site, show proposed sign's location and design. The signs shall comply with LDC Sec. 4.4. A master sign plan and/or permit may be required.

Corrections

2.12.5/1.8.2.D - Traffic Concurrency Evaluation? (**Not Resolved**) - **Corrective Action:** [INFO] Please coordinate with OCE regarding improvements recommended on submitted traffic study for project (AR 33565). - 2.12.5/1.8.2.D - Traffic Concurrency Evaluation?: A traffic study will be required and a traffic methodology must be submitted for review and approval prior to the traffic study being completed. Please contact OCE-Traffic Review for further information on completing the necessary methodology and study.

SUBMITTAL SUMMARY REPORT (33511)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Growth Services Planning & Zoning (DR) (GS Planning and Zoning)	Jared Rivera	11/05/2025	11/14/2025	Requires Re-submit

Corrections	2.12.16/6.5 - EALS or Exemption provided (**Not Resolved**) - **Corrective Action:** [INFO] EALS submitted and transmitted to FWC on 11/13/25. - 2.12.16/6.5 - EALS or Exemption provided?: Provide Environmental Assessment of Listed Species (EALS) or submit an Exemption (EALS-ER). Copy of the EALS/EALS-ER will be forwarded to review agency for comments. Refer to LDC Sec. 6.5 for submittal requirements and review procedures.
Corrections	2.12.4.L & Article 5 - Overlay zones (**Not Resolved**) - **Corrective Action:** [INFO] FEMA Flood Zone X/AE; Secondary Springs Protection Zone; No ESOZ - 2.12.4.L & Article 5 - Overlay zones: Provide a statement showing all applicable overlay zones on the subject properties such as Airport Overlay Zones (AOZ), Environmentally Sensitive Overlay Zone (ESOZ), Floodplain, Springs Protection Overlay Zone (SPOZ), Military Operating Area (MOA), Scenic Roads Area (SRA), Wellhead/Wellfield Protection Area (WHPA), Silver Springs Community Redevelopment Area (SSCRA), and CR 475A Visual Enhancement Gateway Development Overlay, etc. Refer to LDC Article 5 - OVERLAY ZONES AND SPECIAL AREAS.
Corrections	2.12.4/6.11.6 - Construction access (**Not Resolved**) - **Corrective Action:** Please indicate construction access/route on overall site plan sheet. - 2.12.4/6.11.6 - Construction access: Show proposed construction access and route on plan, per Sec. 6.11.6. - Construction access/route,.
Corrections	2.1.3 - Order of plan approval and consistency (**Not Resolved**) - **Corrective Action:** Please note that the proposed lots/layout shown on the Overall Site Plan sheet has not been approved. A preliminary plat (AR 33175) is currently under review. This shall remain a NO until the preliminary plat is approved. A major site plan can be used as a substitute for an improvement plan for the proposed commercial subdivision. Please confirm intention. - 2.1.3 - Order of plan approval and consistency: The plans shall be consistent with approved PUD/Master Plan/Final Plat. Plans listed below may be reviewed concurrently, but must be approved in the order listed below, when applicable and when the proper land use and zoning are in place: A.Master Plan. B.Preliminary Plat. C.Improvement Plan. D.Final Plat. E.Major Site Plan. However, a Major Site Plan can be substituted for the Improvement Plan and can be approved before approval of the Final Plat in cases when the infrastructure improvements supporting the plat are proposed as part of the Major Site Plan application.
Corrections	2.12 - Land Use Designation-adjacent properties (**Not Resolved**) - **Corrective Action:** Adjacent zoning is provided on cover sheet; however, adjacent FLU is missing. Please correct and indicate both on Overall Site Plan sheet. - 2.12 - Land Use Designation-adjacent properties: Show existing land use designation on the adjacent properties.
Corrections	2.12.23 - Building lot typicals (**Not Resolved**) - **Corrective Action:** Please provide lot typicals for proposed commercial subdivision, including minimum lot dimensions/setbacks. - 2.12.23 - Building lot typicals: Show building lot typicals (primary and accessory structures) in table format and illustration.
Corrections	6.5 & 6.6 - Habitat Preservation/Mitigation (**Not Resolved**) - **Corrective Action:** [INFO] If any listed species are observed/potentially located on site, coordinate with FWC and get required permits. Habitat preservation/mitigation plan shall be submitted to County for records at later stage. - 6.5 & 6.6 - Habitat Preservation/Mitigation: Refer to LDC Sec. 6.6 for requirements and design standards if the site contains open water, wetland, listed species, native habitat vegetation, and/or natural open space. When a proposed development or land clearing site is found to include listed species, the application shall identify species and habitat protection as on-site or off-site. The selected option shall be a condition of approval and shall be completed at time of final inspection.
Corrections	2.12 - Site coverage (**Not Resolved**) - **Corrective Action:** Please indicate existing/proposed impervious surface on site plan sheets. Please indicate required/proposed FAR on cover sheet/site plan sheets - 2.12 - Site coverage: Provide list of site coverage in square footage, acreage, and percentage. Including existing and proposed building coverage by intended use with gross floor area, leasable/interior area, existing and proposed gross impervious area.
Corrections	2.12.4/6.11.7 - Loading area (**Not Resolved**) - **Corrective Action:** If applicable, please indicate loading area on C-Store Site Plan sheet. Please note that loading areas shall be landscaped according to LDC Sec. 6.8.9.A. - 2.12.4/6.11.7 - Loading area: Show proposed loading areas on plan, per Sec. 6.11.7. - Loading areas.
Corrections	2.12 - Lot area & lot width (**Not Resolved**) - **Corrective Action:** Please provide B-4 minimum lot dimension standards on cover sheet and overall site plan sheet. - 2.12 - Lot area & lot width: Provide required lot area and lot width in the site data table. Show proposed lot area and lot width of all lots in the site data table and on the plan.
Corrections	2.12.20 - Phases of development (**Not Resolved**) - **Corrective Action:** Will all improvements on site (i.e. buffers, etc.) be completed in one phase? Please confirm intention. - 2.12.20 - Phases of development: Show all phases of development on plan. Improvements must be in place to support each phase of development at time of phase completion.
Corrections	2.12.27 - Location & screening of outside storage (**Not Resolved**) - **Corrective Action:** Will there be any outdoor storage areas? Please confirm and show on site plan sheet if applicable. - 2.12.27 - Location & screening of outside storage: Provide a statement indicating any outside storage area is proposed. If applicable, show location of outside storage areas on plan. Check special requirements under zoning code sections.
Corrections	2.12 - Waivers (Requested & Approved) (**Not Resolved**) - **Corrective Action:** [INFO] If applicable, please include all waivers on cover sheet. - 2.12 - Waivers (Requested & Approved): List of all requested and approved waivers, conditions, and the date of approval.
Comments	JARED RIVERA / GROWTH SERVICES / 352-438-2687 / JARED.RIVERA@MARIONFL.ORG

SUBMITTAL SUMMARY REPORT (33511)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
Landscape (Plans) (Parks and Recreation)		11/05/2025	11/13/2025	Requires Re-submit

Comments

NO 2.12.18 - All trees 10" DBH and larger Show all trees, species and size (dbh inches)
N/A 2.12.25 - Marion Friendly Landscape Areas
NO 6.7.3 - Tree protection Show tree protection on plan and in detail
NO 6.7.4 - Shade tree requirements 1.Shade/Canopy trees shall be 3.5" minimum at installation 2. Provide shade tree requirements for proposed site only, address shade trees requirements for future lots and how that will be implemented. Waiver required to defer shade trees on future lots to time of development 3
NO 6.7.6 - Tree removal submittal requirements Provide list of trees, species, dbh sizes, , inches removed, inches to remain, and inches required
NO 6.7.8 - Protected tree replacement requirements Provide list of trees, species, dbh sizes, , inches removed, inches to remain, and inches required
NO 6.7.9 - Replacement trees; general requirements Provide calculations showing replacement trees required
NO 6.8.2 - Landscape plan requirements (details, schedule, calculations, notes) 1. Provide native designation for each plant in schedule 2. Landscape plan to be signed and sealed per 6.2.1.A
YES 6.8.3 - Landscape design standards
YES 6.8.4 - Landscape area requirements for non-residential development
N/A 6.8.5 - Landscape area requirements for residential and mixed use developments
NO 6.8.6 - Buffers 1. Show all overhead power lines on plan 2. Canopy/Shade trees along SR 200 shall be set back a minimum of 30' from the OHE 3. Show buffer wall on plan for north buffer 4. All shrubs shall be 18" minimum at installation, not 12" shown on schedule, plants not meeting requirements will be rejected at inspection. 5. What will be planted along driveway on SW side of property (entrance drive) - 5' Landscape buffer labeled on overall site plan 6. North buffer missing shrubs and groundcovers near dumpster, these should be shown 7. Explain how retaining will impact buffer wall. (Cross section) Maintenance in that area is a concern
NO 6.8.7 - Parking areas and vehicular use areas 1. Two Oaks at SE corner of building may be crowded, please confirm spacing
YES 6.8.8 - Building landscaping
YES 6.8.9 - Service and equipment areas
N/A 6.13.3.C(5) - Landscaping of public stormwater management facilities
N/A 6.13.3.D(4) - Landscaping of private stormwater management facilities
INFO 6.8.10 - General planting requirements (specifications) 1. Maximum 1" of mulch over tree rootball, volcano mulching of trees will not be accepted 2. All burlap shall be natural and bio degradable, not synthetic
YES 6.8.11 - Landscape installation
NO 6.8.12 - Landscape completion inspection requirements Please provide note from this section of code
NO 6.9.2 - Irrigation plan requirements (details, legend, notes) 1. Landscape plan shall be signed and sealed 2. Explain how master irrigation system will be maintained
YES 6.9.3 - Irrigation design standards
YES 6.9.5 - Irrigation system installation
NO 6.9.6 - Completion inspection requirements Please provide note from this section of code
NO 6.19.3 - Outdoor lighting plan requirements Please submit a signed and sealed photometric plan
PEND 6.19.4 - Exterior lighting design standards
N/A 5.5.4.B - Permitted uses within Springs Protection Overlay Zone
N/A Additional Landscape comments

SUBMITTAL SUMMARY REPORT (33511)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Design (Plans) (Office of the County Engineer)		11/05/2025	11/13/2025	Requires Re-submit

Comments

YES 2.21.2.B - Major Site Plan fee of $1,000..00 + ($10.00 x total site acreage) 10/21/25-fee due with resubmittal
N/A 2.21.2.B - Plan review fee of $40.00 made payable to Marion County Health Department
N/A Traffic study / methodolgy fee of $200.00 made payable to Marion County BCC is required prior to plan approval. Refer to Resolution 10-R-630 for the current fee schedule.
N/A 2.1.6.A - $100 Resubmittal fee payable to Marion County BCC
N/A 2.1.7.A - $100 Revision fee payable to Marion County BCC
N/A 2.1.3 - Order of plan approval
NO 2.12.3 - Title block on all sheets denoting type of application; project name, location, county, and state; and date of original and all revisions 10/21/25-Missing: Title block on ALL sheets denoting type of application; (Major Site Plan)
NO 2.12.4.A - Type of application on front page 10/21/25-Missing: Type of application on front page (Major Site Plan)
YES 2.12.4.B - Project name centered at top of front page
YES 2.12.4.C - Name, address, phone number, and signature of owner and applicant on front sheet
YES 2.12.4.D - Owner's certification on front sheet: I hereby certify that I, my successors, and assigns shall perpetually maintain the improvements as shown on this plan
YES 2.12.4.E - The name, address, phone number, signature, date, license number, and seal of the responsible professional shall be shown on each plan sheet
YES 6.2.1.A - Name, street address, signature, date, license number, and seal of licensed professional on each sheet
YES 2.12.4.F - Licensed professional certification on cover sheet with signature and seal on all sheets after plan approval
NO 2.12.4.F(1) - Licensed Design Professional Certification: I hereby certify that these plans and calculations were completed in accordance with all applicable requirements of the Marion County Land Development Code, except as waived. 10/21/25-Missing: Licensed Design Professional Certification
YES 2.12.4.G - A key location or vicinity map, with north arrow, with reference to surrounding properties, streets, municipal boundaries, sections, ranges, and township
NO 2.12.4.H - A portrait oriented minimal 3 inches x 5 inches space, located 2.75 inches from the right edge of paper and .75 inches from the top edge of paper, shall remain blank to allow for a County approval stamp 10/21/25-Need to make room for stamp
YES 2.12.4.I & 6.2.1.D - Index of sheets and numbering
INFO 2.12.4.K - List of approved waivers, their conditions, and the date of approval 10/21/25-add waivers if requested in future
YES 2.12.4.L(1) - Parcel number
YES 2.12.7 - A digital version of the plan in a format pre-approved by the Office of the County Engineer
YES 2.21.2.A - Multi-phase Major Site Plans may include a separate sheet showing independent, stand alone phasing and shall not be subject to a separate Master Plan application
YES 6.2.1.B - Plans shall be legible and meet typical industry standards
YES 6.2.1.C - Standardized sheet size shall be 24" x 36"
YES 6.2.1.F - North arrow and graphic drawing and written scale
N/A Legal Documents
INFO Additional Development Review Comments After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24”x 36” sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.

SUBMITTAL SUMMARY REPORT (33511)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Property Management (Plans) (Office of the County Engineer)		11/05/2025	11/13/2025	Requires Re-submit

Comments

NO Major Site Plan Please update cover sheet to reflect name and title of person signing on behalf of the owner. Checked project map -EMW
IF APPLICABLE:
Sec. 2.18.1.I - Show connections to other phases.
Sec.2.19.2.H – Legal Documents
Legal documents such as Declaration of Covenants and Restrictions, By-Laws, Articles of Incorporation, ordinances, resolutions, etc.
Sec. 6.3.1.B.1 – Required Right of Way Dedication (select as appropriate)
For Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated for the use and benefit of the public."
Sec. 6.3.1.B.2 – Required Right of Way Dedication
For Non-Public Streets. "[All streets and rights-of-way shown on this plat or name specifically if less than all] are hereby dedicated privately to the [entity name]. All public authorities and their personnel providing services to the subdivision are granted an easement for access. The Board of County Commissioners of Marion County, Florida, shall have no responsibility, duty, or liability whatsoever regarding such streets. Marion County is granted an easement for emergency maintenance in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."
Sec. 6.3.1.D.3 - Cross Access Easements
For Cross Access Easements. "All parallel access easements shown on this plat are hereby dedicated for the use and benefit of the public, and maintenance of said easements is the responsibility of [entity name]."
Sec. 6.3.1.C.1 - Utility Easements (select as appropriate)
"[All utility easements shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction, installation, maintenance, and operation of utilities by any utility provider."
Sec. 6.3.1.C.2 – Utility Easements
"[All utility tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."
Sec.6.3.1.D(c)(1)(2)(3) - Stormwater easements and facilities, select as appropriate:
1. "[All stormwater and drainage easements as shown or noted or name specifically if less than all] are dedicated [private or to the public] for the construction and maintenance of such facilities."

2. "[All stormwater management tracts or identify each tract as appropriate] as shown are dedicated [private or to the public] for the construction and maintenance of such facilities."

3. When any stormwater easement and/or management tract is not dedicated to the public or Marion County directly, the following statement shall be added to the dedication language: "Marion County is granted the right to perform emergency maintenance on the [stormwater easement and/or management tract, complete accordingly] in the event of a local, state, or federal state of emergency wherein the declaration includes this subdivision or an emergency wherein the health, safety, or welfare of the public is deemed to be at risk."
Sec.6.3.1.D(f) –
If a Conservation Easement is required the following shall be provided: "A conservation easement [as shown or on tract and identify the tract, complete accordingly] is dedicated to [the Board of County Commissioners of Marion County, Florida or entity name, if not Marion County] for the purpose of preservation of [listed species, habitat, Karst feature and/or native vegetation, complete accordingly]."

SUBMITTAL SUMMARY REPORT (33511)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Stormwater (Permits & Plans) (Office of the County Engineer)		11/05/2025	11/13/2025	Requires Re-submit

Comments

YES 2.12.4.L(9)(b) - Data Block (Impervious Area)
YES 2.12.8 - Topographical Contours
YES 2.12.9/10 - Existing Drainage Right-of-Way/Easements
YES 2.12.9/10 - Proposed Drainage Right-of-Way/Easements
YES 2.12.13/14/15 - General Exhibits
YES 2.12.20 - Stormwater Infrastructure Supports Phasing
NO 2.12.38 - Stormwater Maintenance Entity Please identify the individual who will be signing the owner's certification
YES 6.13.2.C - Geotechnical Investigation Report
NO 6.13.7 - Geotechnical Criteria A minimum of two infiltration rate tests for each retention/detention area. Boring S-02 is located outside of the DRA so the only boring within infiltration rate test inside the DRA is boring S-03
YES 6.13.2 A(1)/(2) - Contributing Basins/Tc
YES 6.13.2.B(1)/(2) - Runoff Analysis/ Tc Calculations
NO 6.13.2.A(4) - Stormwater Features & Connective Elements See comment under "6.13.2.A(12)/6.12.5 - Stormwater Details, Cross Sections, References"
NO 6.13.2.A(3) - Retention/Detention Area Design Parameters See comment under "6.13.6 - Stormwater Quality Criteria"
NO 6.13.3 - Type of Stormwater Facility Criteria See comment under "6.13.6 - Stormwater Quality Criteria"
NO 6.13.4 - Stormwater Quantity Criteria See comments under "6.13.6 - Stormwater Quality Criteria" & "6.13.7 - Geotechnical Criteria"
NO 6.13.2.B(4) - Hydrologic Analysis See comments under "6.13.6 - Stormwater Quality Criteria" & "6.13.7 - Geotechnical Criteria"
NO 6.13.4.C - Discharge Conditions See comments under "6.13.6 - Stormwater Quality Criteria" & "6.13.7 - Geotechnical Criteria"
NO 6.13.2.B(6) - Freeboard See comments under "6.13.6 - Stormwater Quality Criteria" & "6.13.7 - Geotechnical Criteria"
NO 6.13.4.D - Recovery Analysis See comments under "6.13.6 - Stormwater Quality Criteria" & "6.13.7 - Geotechnical Criteria"
YES 6.13.5 - Flood Plain & Protection
YES 6.13.2.A(8) - Finish Floor Elevation Criteria
NO 6.13.6 - Stormwater Quality Criteria Pond depth exceeds the maximum 6ft depth. How do you intend to meet the water quality requirement?
NO 6.12.6 - Roadway Flooding Level of Service Please provide conveyance calculations
NO 6.13.6.B - Alternative Treatment Techniques See comment under "6.13.6 - Stormwater Quality Criteria"
YES 6.13.6.C - Best Management Practices
NO 6.13.8 - Stormwater Conveyance Criteria Please provide conveyance calculations
NO 6.13.2.B(5) - Hydraulic Analysis Please provide conveyance calculations
NO 6.13.8.B(3) - Lane Spread Calculations Please provide conveyance calculations
YES 6.13.2.A(9) - Access Accommodates Stormwater
YES 6.13.8.B(7) - Minimum Pipe Size
NO 6.13.2.A(5) - Existing/Proposed Stormwater Structures See comment under "6.13.2.A(12)/6.12.5 - Stormwater Details, Cross Sections, References"
NO 6.13.2.A(6) - Existing/Proposed Stormwater Pipes See comment under "6.13.2.A(12)/6.12.5 - Stormwater Details, Cross Sections, References"
YES 6.13.2.A(7) - Existing/Proposed Stormwater Swales
YES 6.13.9 - Grading Criteria
YES 6.13.2.A(11)(a) - Construction Entrance
YES 6.13.2.A(11)(b) - Erosion Control
NO 6.13.2.A(12)/6.12.5 - Stormwater Details, Cross Sections, References There are several existing markups on page C5.0, some of which call out errors
INFO 6.13.2.B(8) - Calculation & Plan Consistency This item will be reviewed at resubmittal
INFO 6.13.10.B - Copy of NPDES Permit or NOI Please provide a copy of the NPDES permit or NOI prior to construction.
INFO Copy of District Permit (County Interest) Please provide a copy of the District permit prior to construction.
YES 6.10 - Karst Topography and High Recharge Areas
YES 7.1.3 - Drainage Construction Specifications
NO 6.13.12 - Operation and Maintenance An operation and maintenance manual is required for all projects. This is a standalone document from the plans and calculations. If you need an example of O&M documents that have been approved in the past, contact the stormwater department. The O&M manual will need to have the following certification on the cover: "I hereby certify that I, my successors, and assigns shall perpetually operate and maintain the stormwater management system and associated elements in accordance with the specifications shown herein and on the approved plans." This certification must be signed by the current property owner or their authorized representative. We used the State of Florida Sunbiz website to verify agents/member/officers of business entities. If the owner is an out of state organization we will need to see articles of incorporation/organization to verify the authority of the individual signing the certifications. For property ownership, we use the Marion County Property Appraiser's website. If you need an example contact the stormwater department.
NO Please provide a final signed and sealed hard copy signature page with references to the stormwater analysis or final hard copy of the full stormwater analysis. After all stormwater comments are resolved, please upload a scanned copy of the digitally signed and sealed certification page of the stormwater report to ePlans. Alternatively, a hard copy can be submitted. If you choose to submit a hard copy, you only need to submit the certification page of the report. A full report is not necessary. However, full reports are accepted if desired.
INFO Additional Stormwater comments If you have questions or would like to discuss the stormwater review comments, please contact Alexander Turnipseed at (352) 671-8376 or at alexander.turnipseed@marionfl.org.

SUBMITTAL SUMMARY REPORT (33511)

ITEM REVIEW NAME (DEPARTMENT)	ASSIGNED TO	DUE	COMPLETE	STATUS
OCE Survey (Plans) (Office of the County Engineer)		11/05/2025	11/13/2025	Requires Re-submit

Comments

YES 6.2.1.A - The name, street address, signature, date, license number, and seal of the responsible professional shall be shown on each plan sheet.
YES 6.2.1.E - Provide drawing legend
YES 6.2.1.F - Provide north arrow and graphic drawing and written scale
YES 6.4.7.A(1) - Show a minimum of two bench marks per site
YES 6.4.7.A(2 & 3) - Bench mark information shown
N/A 6.4.7.A(2 & 3) - One copy of the vertical control field notes shall be submitted to the Office of the County Engineer for review
YES 6.4.7.B(1) - Show a minimum of two intervisible horizontal control points per site
YES 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System
YES 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values
N/A 6.4.7.B(4) - One copy of the horizontal control notes along with reduction reports shall be submitted to the Office of the County Engineer for review
YES 6.4.7.D - The location of the existing one percent (100-year) flood plain as shown on FEMA FIRM, with zone, elevation, and vertical datum noted
YES 6.4.7.D - A note shall appear on the construction plans detailing source and survey field methods used to obtain and delineate the flood plain line shown
YES 6.4.7.E - Line and curve table must be shown on the sheet to which they apply
YES 6.4.7.F - All abbreviations used shall be clearly defined in the legend
YES 2.12.4.F.(2) - Surveyor and Mapper certification
YES 2.12.4.G - Show a location or vicinity map
YES 2.12.8 - Provide current boundary and topographic survey less than one year old
YES 2.12.9 - Provide location and dimensions of all rights-of-way serving the project
YES 2.12.10 - Show any known existing or proposed easement or land reservation
NO 2.12.11 - Provide an aerial map of the site with a layout of the development Please provide overlay of Site Plan Sheet C4.0 on an aerial of site.
YES 2.12.32 - Provide site analysis map depicting the existing (100-year) flood plain
N/A Additional Survey comments

OCE Traffic (Permits & Plans) (Office of the County Engineer)	Chris Zeigler	11/05/2025	12/05/2025	Requires Re-submit

Corrections

6.11.5 - Driveway access (**Not Resolved**) - **Corrective Action:** The driveways do not meet spacing requirements. A deviation will be approved subject to providing a notice of intent from FDOT for the driveway connection on SR 200. The driveway connection to CR 484 will need to be coordinated with the adjacent development to the west which has a proposed driveway immediately adjacent to it. It is preferred for the adjacent driveway to be constructed and cross access be provided for this development. - 6.11.5 - Driveway access: The driveways must meet the requirements of section 6.11.5.

Corrections

6.11.3 - Traffic Impact Analysis (**Not Resolved**) - **Corrective Action:** A traffic study is in review and must be approved prior to approval of the site plan. - 6.11.3 - Traffic Impact Analysis: Provide a Traffic Impact Analysis

Corrections

6.11.4.B - Cross access (**Not Resolved**) - **Corrective Action:** Provide a 24' wide paved cross access easement from the western property line to the northern property line inlcuding the driveways. The easement must be a public easement in the form provided by the County. The template can be obtained from the Development Review Office at 352-671-8686 or developmentreview@marionfl.org. The executed easement and recording fees must be returned to the Development Review Office prior to final plan approval. A paving covenant is also required to not pave the cross access easement to the property line. The template for the paving covenant can also be obtained from the Development Review Office and the executed covenant and recording fees must be provided prior to final plan approval. - 6.11.4.B - Cross access: Provide a 24' wide paved cross access easement as specified in 6.11.4.B

Corrections

6.12.11 - Turn lanes (**Not Resolved**) - 6.12.11 - Turn lanes: Turn lanes shall be required as determined by the Traffic Impact Analysis or for safety purposes as determined by the County. A separate offsite improvement plan is required.

Corrections

6.11.9.B - Traffic signs (**Not Resolved**) - **Corrective Action:** Install stop signs at the driveways and internal intersections. - 6.11.9.B - Traffic signs: Provide traffic signs as required in Section 6.11.9.B.

Corrections

6.11.9.A - Traffic signals (**Not Resolved**) - **Corrective Action:** Any modifications to the traffic signal at SR 200 and CR 484 will be determined by the traffic study. Any modifications must be permitted by the Florida Department of Transportation. - 6.11.9.A - Traffic signals: If a new traffic signal or traffic signal modifications are required, provide a separate offsite improvement plan with details as required in Section 6.11.9.A

Corrections

Additional Traffic Comments (**Not Resolved**) - **Corrective Action:** Coordinate with the adjacent development to the west on the access to CR 484 which has a driveway proposed immediately adjacent to the proposed driveway on CR 484. Only one driveway will be allowed in the future. It would be best to have the adjacent development construct the driveway with cross access provided. However, an interim arrangement may be possible for this driveway to be constructed now and removed when the adjacent driveway is constructed. - Additional Traffic Comments

Utilities (OCE Plans) (Utilities)		11/05/2025	11/13/2025	Requires Re-submit

Comments

NO Marion County Utilities Contact Information Add MCU contact information. Marion County Utilties, Customer Service 24/7/365, Address: 11800 US-441, Belleview, FL 34420, Phone: (352) 307-6000

YES Parcel numbers identified in project match proposed site plan layout 35341-002-01
INFO 6.14.2.A(1) - Public water service area/provider Marion County Utilities Service Area - Connecting to water main on HWY 200
INFO 6.14.2.A(1) - Public sewer service area/provider Marion County Utilities Service Area - Connecting to sewer force main. Connections to be determined.
N/A 6.14.2.A(1) - Letter of Availability and Capacity (w/Location Map of water and/or sewer as app) from provider
YES 6.14.2.A - Water Connection Requirements
NO 6.14.2.A - Sewer Connection Requirements Please contact the Utilities Development Review Officer to schedule a meeting with Utilities staff to review and discuss the plans prior to resubmittal.
NO 6.14.2.C.2(e) - Grease Trap, FOG Worksheet Provide S&S (sizing and selection) calculations for the grease trap.
The grease trap also requires a hydrostatic test witnessed by the Engineer of Record (EOR), with the test report submitted to MCU.
PEND 6.14.2.C - Industrial Pretreatment
PEND 6.14.3 - Onsite Waste Treatment and Disposal System (OSTDS) - connection requirement on plan
PEND 6.14.3.B - Springs Protection Zone
PEND 6.14.4 - Water (potable) Capital Charges and Flow Rates - proposed use identified to calculate
PEND 6.14.4 - Water (irrigation) Capital Charges and Flow Rates - total irrigated area identified
PEND 6.14.4 - Sewer Capital Charges and Flow Rates - proposed use identified to calculate
PEND 6.14.5.A(1) - Submittal Requirements - Existing on-site & off-site mains and service connections
PEND 6.14.5.A(2) - Submittal Requirements - Proposed on-site & off-site mains and service connections
PEND 6.14.5.A(3) - Submittal Requirements - Lift Stations layout, elevations, schedules
PEND 6.14.5.A(6) - Submittal Requirements - Manhole locations, rim and invert elevations outside paved areas
PEND 6.14.5.A(8) - Submittal Requirements - Connection to existing water system
PEND 6.14.5.A(8) - Submittal Requirements - Connection to existing sanitary system
PEND 6.14.5.B - Construction Notes - Cover, horiz/vert datums, construction requirements
NO 6.14.5.B - Construction Notes - UT DETAILS - current LDC version C7.4 - Include UT513 with lift station details. PG C7.3 Remove UT215B. UT307 and UT308 - Air release valves must be above ground. PG C7.1 shows UT202, where is the 2" supply on the utility plans?
PEND 6.14.5.C - All issued permits related to this project shall be submitted to MCU (DOT, ROW, misc)
PEND 6.14.5.C - DEP permit for water mains to be constructed/owned by MCU
PEND 6.14.5.C - DEP permit for water mains to be constructed/owned by developer
PEND 6.14.5.C - DEP permit for sewer mains to be constructed/owned by MCU
PEND 6.14.5.C - DEP permit for sewer mains to be constructed/owned by developer
PEND 6.14.5.D - Hydraulic Analysis
PEND 6.14.6 - Design Criteria for Utility Systems to be owned/maintained by MCU
PEND 6.14.7 - Construction Inspection - PLAN NOTE:
PEND 6.14.8.A - Completion and Closeout - PLAN NOTE: As-builts
PEND 6.14.9.A - Developer's Agreement
PEND 6.14.9.B - Transfer of Facilities to Marion County Utilities - PLAN NOTE:
PEND 6.14.9.B - Bill of Sale
PEND 6.15.1 - Potable Water Distribution System
PEND 6.15.2 - Decentralized Water System (WTP)
NO 6.15.3 - Fire Protection/Fire Flow Capacity C6.2 Notes, Item #8 – County hydrants must be painted red for public hydrants and yellow for private hydrants.
PEND 6.15.4 - Water Main Piping Installation
NO 6.15.5 - Water Service and Connection C6.0 – MCU prefers water services to be located at lot lines.
A 6" water service is shown to each lot, which is not feasible.
Water services are not called out for the lots located east and west of the lift station.

MCU prefers two points of connection — potentially extending the water main along SW HWY 200 and west of the HWY 484 entrance.

No water service is shown to the lift station; a dedicated water service is required for all public lift stations.
PEND 6.15.6.A - Potable Water Metering - individual/banked, size
NO 6.15.6.B - Irrigation Water Metering - size The irrigation meter must be shown on the utility plan sheet.
The total irrigated square footage must also be provided and labeled on the utility plan.
Clarify whether the 2" meter will also serve irrigation for a future phase.
PEND 6.15.6.C - Sewer service only (water meter required/shown)
PEND 6.15.6.D - Meter Location
PEND 6.15.6.E - Meter Easements
NO 6.15.6.F - Meter Boxes L2.03Water meters are shown differently on sheet L2.03 than on the Site Plan.
All meters must be installed within the right-of-way.
No plantings are permitted within 5 feet of any water meter.
PEND 6.15.6.G & H - Meter Sizing
PEND 6.15.7 - Cross Connection Control and Backflow Prevention
PEND 6.15.8 - Public Water Well Standards
PEND 6.15.9 - Wellfield and Water Supply
PEND 6.15.10 - Water Treatment Plants (WTP)
PEND 6.16.2 - Decentralized Wastewater Treatment Plant (WWTP)
NO 6.16.4 - Wastewater Collection Systems (Gravity/Pressurized) Design C6.0 Design information is needed between S-1 and S-2, and between S-2 and S-3.
No design information has been provided for S-3.
The sewer main should be straight between manholes.
In the SS Structure Table - calculations are incorrect. Please review and revise table including INV's - MH3 is also missing.
PEND 6.16.5.A & B - Private Wastewater Pump Stations
NO 6.16.5.C - Public Wastewater Pump Stations (MCU Standards) C6.2 Notes: The lift station should be identified as public.
Corresponding details and a detail view must be submitted with the next plan review.
The lift station location will need to be reviewed with MCU staff.
The current leader is not pointing to the force main — it appears to pass through it.
Lift station details must be revised to reflect public lift station standards and information.
Please note: this station discharges directly to the headworks; therefore, a VFD or soft start is required. MCU requests an odor control

unit and generator, unless not required by FDEP.
PEND 6.17 - Water Reclamation/Reuse Facilities
PEND Article 7 - Construction Standards - PLAN NOTE:
PEND Utilities Plan Review Fee per Resolution 15-R-583 - payable to Marion County Utilities
NO Additional Utilities comments C6.2 MCU requires a minimum 48" of cover over Force Main.
NO Additional Utilities comments MCU requests a meeting with the Engineer of Record (EOR) to discuss the force main installation and routing.
Please contact Heather.Proctor@MarionFL.org
to schedule a meeting with MCU staff.
NO Additional Utilities comments C6.1 – A cleanout must be provided at the property line to delineate maintenance responsibility and must be located in a non-paved area.
An easement is required over all meters, and the end of County maintenance must be called out on the plans.
Clarify how the site will be irrigated, as no irrigation meter is shown.
A 6" gate valve (GV) is required at the tee (TYP).
PEND Additional Utilities comments
PEND Additional Utilities comments
PEND Additional Utilities comments
PEND Additional Utilities comments
PEND Additional Utilities comments
PEND Additional Utilities comments
PEND Additional Utilities comments

Marion County
Board of County Commissioners

Office of the County Engineer

412 SE 25th Ave.
Ocala, FL 34471
Phone: 352-671-8686
Fax: 352-671-8687

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Date: 07/07/2026 Parcel Number(s): 35341-002-01 Permit Number: _____

A. PROJECT INFORMATION: Fill in below as applicable:

Project Name: SR200 & HWY484 Master Infrastructure Commercial ☑ Residential ☐
Subdivision Name (if applicable): _____
Unit _____ Block _____ Lot _____ Tract _____

B. PROPERTY OWNER'S AUTHORIZATION: The property owner's signature authorizes the applicant to act on the owner's behalf for this waiver request. The signature may be obtained by email, fax, scan, a letter from the property owner, or original signature below.

Name (print): Tampa Aquisitions, INC.
Signature: _____
Mailing Address: 1201 Oakfield Drive Suite 109 City: Brandon
State: FL Zip Code: 33510 Phone # 727-709-3382
Email address: jtyszko3022@gmail.com

C. APPLICANT INFORMATION: The applicant will be the point of contact during this waiver process and will receive all correspondence.

Firm Name (if applicable): Kimley-Horn and Associates, Inc. Contact Name: Mark Grande, P.E.
Mailing Address: 1530 Cornerstone Blvd, Suite 200 City: Daytona Beach
State: FL Zip Code: 32117 Phone # 407-789-2209
Email address: mark.grande@kimley-horn.com

D. WAIVER INFORMATION:
Section & Title of Code (be specific): Sec 2.1.3 - Order of Plan Approval
Reason/Justification for Request (be specific): The waiver requests to modify the order or plan approval for the proposed development to substitute the Improvement Plan with the ongoing Major Site Plan application approval for Final Plat approval. This request is consistent with discussions held with County Staff during pre-application meetings and existing comments from the Major Site Plan application. The applicant assumes the risks of proceeding with Engineering design required at the Major Site Plan application level while approval of the plat is still pending.

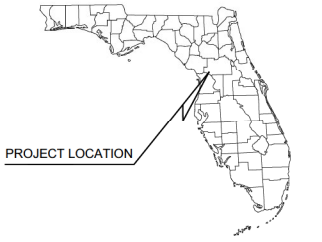
DEVELOPMENT REVIEW USE:
Received By: _____ Date Processed: _____ Project # _____ AR # _____

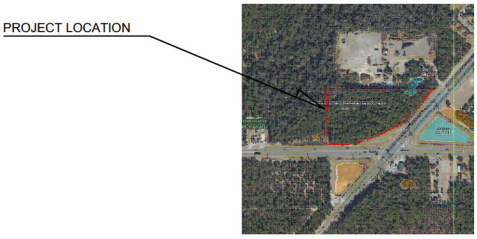
ZONING USE: Parcel of record: Yes ☐ No ☐ **Eligible to apply for Family Division: Yes ☐ No ☐**
Zoned: _____ ESOZ: _____ P.O.M. _____ Land Use: _____ **Plat Vacation Required: Yes ☐ No ☐**
Date Reviewed: _____ Verified by (print & initial): _____

The waiver requests to remove the buffer wall requirement within the B-Type buffer located along the north property line, adjacent to the A-1 zoned property. Based on existing land uses for both properties being commercial, the intent of LDC Sec. 6.8.6. to screen commercial from agricultural properties is not consistent. This waiver request intends to keep the B-Type buffer width requirement of 20' while only removing the wall requirement due to existing topography and native vegetative buffers. Existing topography along the property line varies to the extent that a buffer wall would serve no true screening benefit and existing vegetation within the A-1 property enhances this. Please see Exhibit B.

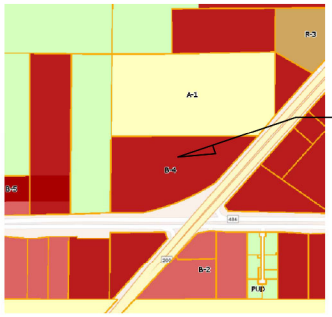
CONSTRUCTION PLANS
FOR
SR200 & HWY484 MASTER INFRASTRUCTURE
10011 SW 484TH
OCALA, FLORIDA
October 14, 2025

PARCEL ID: 35341-002-01

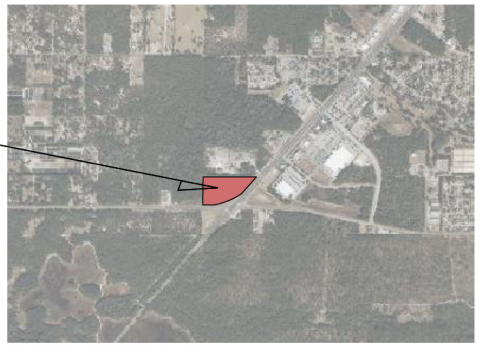




FLOOD ZONE MAP NTS



ZONING MAP NTS



VICINITY MAP NTS

SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	GENERAL NOTES
C1.1	GENERAL NOTES
C2.0	SWPPP
C2.1	EROSION CONTROL DETAILS
C3.0	EXISTING CONDITIONS AND DEMOLITION PLAN
C4.0	OVERALL SITE PLAN
C4.1	C-STORE SITE PLAN
C4.2	FIRE TRUCK ROUTE
C5.0	PAVING, GRADING, AND DRAINAGE PLAN
C5.1	C-STORE POD
C5.2	POD SECTIONS
C6.0	UTILITIES PLAN
C6.1	C-STORE UTILITIES
C6.2	FORCE MAIN PLAN AND PROFILE
C6.3	WATER MAIN PLAN AND PROFILE
C6.4	WATER MAIN PLAN AND PROFILE
C6.5	LIFT STATION DETAILS
C6.6	LIFT STATION DETAILS
C7.0	GENERAL DETAILS
C7.1	MARION COUNTY DETAILS
C7.2	MARION COUNTY DETAILS
C7.3	MARION COUNTY DETAILS
C7.4	MARION COUNTY DETAILS
C7.5	FDOT MOT DETAILS
C7.6	FDOT MOT DETAILS
L1.00	OVERALL LANDSCAPE PLAN
L1.01	LANDSCAPE PLAN
L1.02	LANDSCAPE PLAN
L1.03	LANDSCAPE PLAN
L1.04	LANDSCAPE PLAN
L1.05	LANDSCAPE PLAN
L1.50	LANDSCAPE DETAILS
L1.51	LANDSCAPE NOTES AND SPECIFICATIONS
L2.00	OVERALL IRRIGATION PLAN
L2.01	IRRIGATION PLAN
L2.02	IRRIGATION PLAN
L2.03	IRRIGATION PLAN
L2.04	IRRIGATION PLAN
L2.05	IRRIGATION PLAN
L2.50	IRRIGATION DETAILS
L2.51	IRRIGATION NOTES

NO CHANGE TO THE WORK AS SHOWN OR THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A MIXED-USE COMMERCIAL DEVELOPMENT ON A +/- 11.99-ACRE PARCEL (PARCEL ID 35341-002-01), MORE SPECIFICALLY LOCATED ON THE NORTHWEST CORNER OF STATE ROAD 200 AND HIGHWAY 484 IN UNINCORPORATED MARION COUNTY, FLORIDA.

LEGAL DESCRIPTION

ALL THAT PART OF THE NW ¼ OF THE SW ¼ OF SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST, LYING NORTH OF STATE ROAD #200 AND STATE ROAD #484 CUT OFF, LYING AND BEING IN THE MARION COUNTY, FLORIDA.

LESS AND EXCEPT PARCEL NO. 114 DESCRIBED IN ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 2514, PAGE 793, OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA.

OWNER CERTIFICATION

I HEREBY CERTIFY THAT I, MY SUCCESSORS, AND ASSIGNS SHALL PERPETUALLY MAINTAIN THE IMPROVEMENTS AS SHOWN ON THIS PLAN. _____

EXISTING	TOTAL LOT	IMPERVIOUS SF	PERVIOUS SF	% IMPERVIOUS	IMPERVIOUS AC	PERVIOUS AC	CN
EXISTING SITE	522,139	0	522,139	0%	0	11.99	36.0
OFF-SITE DRAINAGE AREA	44,349	0	44,349	0%	0	1.02	36.0
PROPOSED	**TOTAL LOT**	**IMPERVIOUS SF**	**PERVIOUS SF**	**% IMPERVIOUS**	**IMPERVIOUS AC**	**PERVIOUS AC**	**CN**
OFF SITE DRAINAGE AREA	44,349	0	44,349	0%	0	1.02	36.0
STORMWATER TRACT	99,202	41,185	58,037	41%	0.95	1.33	63.2
PRIVATE/RIGHT-OF-WAY	46,767	33,651	13,116	72%	0.77	0.30	81.5
LOT 1 (FUTURE)	63,915	57,524	6,392	90%	1.32	0.15	92.1
LOT 2 (FUTURE)	43,953	39,558	4,395	90%	0.91	0.10	92.1
LOT 3 (FUTURE)	44,689	40,220	4,469	90%	0.92	0.10	92.1
LOT 4 (FUTURE)	81,318	73,186	8,132	90%	1.68	0.19	92.1
LOT 5 (PROPOSED)	76,922	46,243	30,679	60%	1.06	0.70	74.4
LOT 6 (FUTURE)	65,374	58,837	6,537	90%	1.35	0.15	92.1
OVERALL CN							67.7

PROJECT TEAM

DEVELOPER:
RJB COMMERCIAL
217 9TH AVE NORTH
SAINT PETERSBURG, FL 33701
CONTACT: JOE TYSZKO
PHONE: (727) 709-3362
EMAIL: JTYSZKO3022@GMAIL.COM

CIVIL ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
1530 CORNERSTONE BLVD, SUITE 200
DAYTONA BEACH, FL 32117
CONTACT: MARK GRANDE, P.E.
PHONE: (407)-789-2209
EMAIL: MARK.GRANDE@KIMLEY-HORN.COM

LANDSCAPE ARCHITECT:
KIMLEY-HORN AND ASSOCIATES, INC.
189 SOUTH ORANGE AVENUE., SUITE 1000
ORLANDO, FL 32801
CONTACT: MATTHEW FRANKO, PLA
PHONE: (407) 427-1629
EMAIL: MATT.FRANKO@KIMLEY-HORN.COM

SURVEYOR
NVS, INC.
11801 RESEARCH DRIVE
ALACHUA, FL 32615
CONTACT: AARON H. HICKMAN
PHONE:(352) 331-1976

PREPARED BY

Kimley»Horn

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1530 CORNERSTONE BLVD, SUITE 200, DAYTONA BEACH, FL 32117
PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

MANDATORY PRE-CONSTRUCTION MEETING NOTE:

NO CONSTRUCTION ON THE PROPOSED PORTIONS OF THIS PROJECT MAY COMMENCE UNTIL A MANDATORY PRE-CONSTRUCTION MEETING IS HELD WITH THE CITY, AS STATED IN THE APPROVED DEVELOPMENT ORDER FROM THE CITY OF DAYTONA BEACH.

UTILITY PROVIDERS

WATER & SEWER:
MARION COUNTY
11800 US-441
BELLEVIEW, FL 34420
CONTACT:
PHONE:

POWER:
DUKE ENERGY
4359 SE MARICAMP RD
OCALA, FL 34480
PHONE: (800) 700-8744

GAS:
TECO PEOPLES GAS
1724 KURT STREET
EUSTIS, FL 32726
CONTACT: HEATH MCARDLE
PHONE: (407) 420-6674

CABLE/TELEPHONE:
CHARTER COMMUNICATIONS
4145 S FALKENBURG RD, SUITE 4
RIVERVIEW, FL 33578
CONTACT: KEVIN GALBREATH
PHONE: (813) 684-6100

TELEPHONE:
AT & T-DISTRIBUTION
1125 S ROGERS CIR
BOCA RATON, FL 33487
CONTACT: DINO FARRUGGIO
PHONE: (561) 997-0240

FIBER OPTIC:
CROWN CASTLE NG
2000 CORPORATE DR
CANONSBURG, PA 15317
PHONE: (888) 632-0931

SR200 & HWY484
DRAWING NO.
ENGINEER'S PROJECT No. 249735000

APPROVED:

GENERAL

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE EXISTING UTILITY INFORMATION SHOWN IS BASED ON THE TOPOGRAPHIC SURVEY PROVIDED BY NVS, INC.. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS AREA PRIOR TO CONSTRUCTION WORK.

2. PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, CABLE TV, COMMUNICATIONS, SANITARY SEWERS AND STORM DRAINAGE SYSTEMS, ON AND / OR ADJACENT TO THE SITE. REMOVE OR CAP AS NECESSARY.

3. THE CONTRACTOR SHALL EXERCISE CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.

4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUB-CONTRACTORS, AS CALLED FOR IN THESE CONTRACT DOCUMENTS.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION/REQUIREMENTS.

6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ON ALL PRECAST AND MANUFACTURED ITEMS, TO THE OWNER'S ENGINEER FOR REVIEW. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

7. ALL UTILITY SERVICE STUB-OUTS (WATER, SANITARY SEWER, etc.) ARE TO BE INSTALLED WITHIN 5' OF THE POINT ON CONNECTION TO THE BUILDING(S), UNLESS OTHERWISE NOTED ON PLANS.

8. CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELOCATION(S) OF UNDERGROUND AND/OR OVERHEAD ELECTRIC FACILITIES, AND FOR THE LOCATION AND INSTALLATION OF TRANSFORMER PAD(S) AND ASSOCIATED ELECTRIC FACILITIES.

9. SAFETY:
   A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
   B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA.
   C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
   D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
   E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT", THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
   F. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN R-O-W UTILIZATION PERMIT (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITIES. THIS PERMIT MUST BE OBTAINED BY A DULY LICENSED PLUMBING CONTRACTOR (OR CLASS A GENERAL CONTRACTOR) PRIOR TO THE START OF CONSTRUCTION. THESE PLANS AND ANY SUBSEQUENT REVISIONS TO THESE PLANS, THAT ARE ISSUED BY THE ENGINEER, WILL BE SUBJECT TO THE APPROVAL CONDITIONS OF THIS PERMIT.

11. THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION, REDUCTION, AND/OR REVISIONS, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.

12. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.

13. ALL UNDERGROUND UTILITIES WITHIN BASE AND SURFACE MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.

14. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS/SUBCONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE HIS/HER ACTIVITIES ACCORDINGLY.

15. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

16. ALL SIGNAGE MUST SHALL MEET THE REQUIREMENTS OF MARION COUNTY LAND DEVELOPMENT CODE , ARTICLE 7.

17. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.

18. FIRE LINE IS DESIGNED BY OTHERS AND IS SHOWN FOR COORDINATION PURPOSES ONLY. FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.

19. ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED PER FDOT DESIGN INDEX (ED. 2022) #522-001.

20. SITEWORK SHALL COMPLY WITH 2017 FLORIDA BUILDING CODE AND 2012 FLORIDA ACCESSIBILITY CODE.

21. ELEVATIONS ARE BASED ON BENCHMARK PID DG8570, BEING A STAINLESS STEEL ROD CAN CAP STAMPED "NGS W 588 2003" HAVING A PUBLISHED ELEVATION OF 81.96 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988 – NAVD88)

STORM DRAINAGE SYSTEM

1. STANDARD INDEXES REFER TO THE 2022 EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS."

2. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON PLANS.

3. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAINAGE STRUCTURES, WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS, WHICH ARE NOT INCLUDED IN LENGTHS.

4. ALL DRAINAGE STRUCTURE GRATES AND COVERS, EITHER EXISTING OR PROPOSED SHALL BE TRAFFIC RATED FOR H-20 LOADINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY UPGRADES TO EXISTING DRAINAGE STRUCTURES.

5. CONSTRUCTION OF THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE AND ALL DISTURBED AREAS STABILIZED IN ACCORDANCE WITH THE PERMITTED PLANS AND CONDITIONS PRIOR TO ANY OF THE FOLLOWING: ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; INITIATION OF INTENDED USE OF THE INFRASTRUCTURE; OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.

6. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER JURISDICTION REGULATIONS (MANUFACTURER'S RECOMMENDATIONS SHALL BE UTILITIZED IF MORE STRINGENT).

7. STORM WATER PIPES, STRUCTURES, MINIMUM COVER AND INSTALLATION PROCEDURES TO BE IN ACCORDANCE WITH MARION COUNTY ENGINEERING STANDARDS.

8. ALL DRAINAGE PIPES SHALL BE FILTER FABRIC WRAPPED PER FDOT STANDARD DESIGN INDEX (ED. 2022) #430-001.

9. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY AND SHALL ROUTE DISCHARGE WATER IN SUCH A MANNER AS TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM THE SITE.

DRAINAGE SYSTEM TESTING AND INSPECTION

1. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE REINSPECTED BY THE OWNER'S ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS AT THE CONTRACTORS EXPENSE AND PRIOR TO FINAL ACCEPTANCE.

2. THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 2 FULL BUSINESS DAYS IN ADVANCE TO SCHEDULE INSPECTION.

PAVING, GRADING AND DRAINAGE

1. ALL PAVING SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE GEOTECHNICAL ENGINEER OF RECORD. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS AND PER THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.

4. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.

5. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.

6. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.

7. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

8. CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE 2022 EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.

9. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR APPROVAL.

10. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (STRUCTURES, OTHER POURED)

11. ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #711-001.

12. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

13. THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN EXISTING PRIOR TO START OF CONSTRUCTION.

14. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.

15. SURVEY MONUMENTS OR BENCHMARKS, WHICH HAVE TO BE DISTURBED BY THIS WORK, SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR AT CONTRACTORS EXPENSE.

16. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.

17. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND JURISDICTIONAL PERMITTING AGENCIES.

18. CONTRACTOR IS TO ADJUST ANY UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, MANHOLES, CATCH BASINS, INLETS, ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.

19. ALL WORK SHALL COMPLY WITH THE GEOTECHNICAL REPORT BY ECS FLORIDA, LLC ON MAY 2,2024.

20. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITH BAHIA UNLESS OTHERWISE NOTED.

PAVING/GRADING TESTING AND INSPECTION

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE SOILS REPORT. UPON COMPLETION OF WORK THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

2. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS AND GEOTECHNICAL REPORT, THE VARIOUS AGENCIES AND PERMIT CONDITIONS. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THESE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.

TREES AND VEGETATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE BUFFERS AND RETENTION AND DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE OWNER. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.

AS BUILT

1. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS "AS-BUILT" INFORMATION SHALL INCLUDE INVERT ELEVATIONS, LOCATIONS OF STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS GRADE BREAK LOCATIONS AND ELEVATIONS FOR PROPOSED CONSTRUCTION. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY (C.O.) PURPOSES WILL BE MADE UNTIL THIS INFORMATION HAS BEEN RECEIVED AND ACCEPTED BY THE OWNER'S ENGINEER.

2. ALL "AS-BUILT" ELEVATIONS SHALL BE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

PAVEMENT MARKING AND SIGNAGE

1. THE INSTALLATION, SHAPE, AND SIZE OF ALL SIGNS AND THEIR LETTERING SHALL COMPLY WITH THE LATEST EDITIONS OF THE U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ED. 2009" (MUTCD), AND THE F.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ED. 2021", AND THE F.D.O.T. "DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, ED. 2016". WHERE CONFLICTS EXIST BETWEEN THE PLANS AND THE ABOVE MENTIONED SPECIFICATIONS, THE MORE STRINGENT CRITERIA SHALL PREVAIL.

2. STOP BARS AND STOP SIGNS ARE TO BE PROVIDED AT ALL INTERNAL, ONSITE INTERSECTIONS, WITH THE EXCEPTION OF SIGNALIZED INTERSECTIONS (UNLESS OTHERWISE NOTED).

3. ALL PAVEMENT MARKINGS SHALL COMPLY WITH THE 2022 F.D.O.T. STANDARD INDEX (ED. 2022) #711-001.

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DEWATERING NOTES

1. DURING THE EXCAVATION OF THE STORMWATER FACILITIES, AND IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONSTRUCT A SEDIMENT BASIN TO PROVIDE A DISCHARGE POINT FOR DEWATERING. THE SEDIMENT BASIN CAN BE CELL IN THE PROPOSED EXCAVATION AREA OF A POND OR IT CAN BE A BERMED AREA ABOVE GROUND. ALL DEWATERING MUST BE HELD IN THE SEDIMENT AREA UNTIL THE WATER IS CLEAN SUCH THAT THERE WOULD BE NO TURBID DISCHARGE. AFTER THE WATER IN THE SEDIMENT BASIN IS CLEAN, THE WATER MAY BE RELEASED INTO THE ON-SITE POND PROVIDED THERE IS NO ADVERSE IMPACT TO THE EXISTING WATER QUALITY.
2. UNDER NO CIRCUMSTANCES WILL THE DISCHARGE FROM THE ON-SITE DEWATERING BE DIRECTLY DISCHARGED OFFSITE.
3. IF CONTRACTOR ENCOUNTERS SILTY/CLAY SAND, WHICH CAUSE THE WATER TO BECOME TURBID, HE/SHE SHALL TREAT THE SEDIMENT BASIN WITH CHEMICAL ADDITIVE SUCH AS ALLUM IN ORDER TO PROMOTE THE COAGULATION OF THE PARTICLES WHICH ALLOW THE TO SETTLE AND THE WATER TO BECOME LESS TURBID. IF TURBID WATER ENCOUNTERED DURING EXCAVATION OF THE PONDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY TO DETERMINE THE COURSE OF ACTION THAT IS APPROPRIATE TO ELIMINATE THE TURBITY AND ALLOW DISCHARGE THAT MEET WATER QUALITY STANDARDS.
4. THE CONTRACTOR SHALL SEQUENCE THE EXCAVATION OF THE STORMWATER PONDS SUCH THAT A SEDIMENT BASIN WILL BE AVAILABLE AT ALL TIMES. THE SEDIMENT BASIN CAN BE RELOCATED AS NECESSARY SUBJECT TO THE WATER WITHIN THE SEDIMENT BASIN BEING NON-TURBID AND ACCEPTABLE FOR DISCHARGE OFF-SITE.

DEMOLITION

1. CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
2. EXTENT OF SITE CLEARING IS SHOWN ON DRAWINGS.
3. CONTRACTOR SHALL CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
4. CONTRACTOR SHALL PROVIDE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED ON PLAN "EXISTING TO REMAIN".
5. CONTRACTOR SHALL RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
6. CONTRACTOR SHALL REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM PROPERTY AND DISPOSE OF OFF-SITE IN A LEGAL MANNER.
7. CONTRACTOR SHALL DEMOLISH AND COMPLETELY REMOVE FROM SITE MATERIAL INDICATED ON PLAN OR NOTES "TO BE REMOVED".
8. CONTRACTOR SHALL PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.

EARTHWORK / DEMUCKING PROCEDURES

1. A GEOTECHNICAL ENGINEERING INVESTIGATION REPORT HAS BEEN PREPARED FOR PURPOSES OF STORM WATER DESIGN, OF WHICH COPIES ARE AVAILABLE THROUGH THE OWNER OR THEIR SOIL TESTING COMPANY. A GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR TO PROVIDE ON-SITE INSPECTIONS DURING EXCAVATION/FILL OPERATIONS AND TESTING OF THE COMPACTED FILL SO THAT PROPER DOCUMENTATION OF THE REQUIRED COMPACTING CRITERIA CAN BE PROVIDED.
2. ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS IN A LEGAL MANNER.
3. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.
4. THE CONTRACTOR SHALL INSURE THAT PROPER SOIL DENSITIES ARE ACHIEVED FOR PLACEMENT OF ALL HEADWALL/ENDWALL FOOTINGS, RETAINING WALL FOOTINGS, AND IN GENERAL, ANY FOOTING SUPPORT DESCRIBED ON THESE PLANS. IT WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SUFFICIENT SOILS TESTING HAS BEEN PERFORMED PRIOR TO FINAL INSTALLATION OF IMPROVEMENTS.
5. ANY UNSUITABLE ORGANIC SOIL SHALL BE EXCAVATED TO A MINIMUM MARGIN OF 6 FEET BEYOND ITS PERIPHERY EXCAVATED TO EXPOSE THE UNDERLYING NON-ORGANIC FINE SAND.
6. IF DEWATERING NECESSARY, DEWATERING DURING EXCAVATING/BACKFILLING OPERATIONS MAY BE ACCOMPLISHED BY DITCHING AND THE USE OF SUMP PUMPS AND/OR OTHER METHODS (WELL POINTS), AS NECESSARY. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS FOR DEWATERING ACTIVITIES THAT MAY BE REQUIRED.
7. UPON APPROVAL OF THE GEOTECHNICAL ENGINEER, THE EXCAVATED AREAS MAY BE BACKFILLED WITH CLEAN FINE SAND FREE OF UNSUITABLE OR DELETERIOUS MATERIAL. HOWEVER, THE FILL SHOULD NOT BE PLACED IN MORE THAN 8 INCHES OF STANDING WATER. ONCE THE FILL IS AT LEAST 2 FEET ABOVE THE DEWATERED LEVEL, BACKFILLING MAY PROCEED AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
8. CONTRACTOR TO FOLLOW THE GUIDANCE OF THE REFERENCED GEOTECHNICAL ENGINEERING INVESTIGATION REPORT OR INDICATE WHETHER ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE DEPTH OF DEMUCKING AND/OR REMOVAL OF UNSUITABLE FILL.
9. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.
10. IN THE CASE WHERE LIMESTONE IS ENCOUNTERED DURING THE EXCAVATION OF THE STORAGE TANK OR UNDERGROUND UTILITY LINE, WE RECOMEND THAT THE EXCAVATION BE EXTENDED A MINIMUM OF ONE FOOT BELOW THE INTENDED BASE ELEVATION. WE THEN RECOMMEND THAT 12 INCHES OF CLAYEY MATERIAL (IF EXCAVATION CAN BE MAINTAINED DRY) OR A MUD MAT BE INSTALLED TO PREVENT THE DOWNWARD INFILTRATION OF WATER INTO THE LIMESTONE. THE EXCAVATION CAN THEN BE BACKFILLED AS NORMAL.
11. SWFWMD REQUIRES THAT A MINIMUM SEPARATION OF 2 FEET BETWEEN A PROPOSED POND BOTTOM AND THE LIMESTONE STRATUM. IN THE CASE THAT LIMESTONE IS ENCOUNTERED DURING EXCAVATION OF A PROPOSED POND THE EXCAVATION SHOULD BE HALTED AND TWO FEET OF IMPERMEABLE MATERIAL (CLAY SOILS) BE PLACED ON TOP OF THE LIMESTONE.

NO.	REVISIONS	DATE	BY
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Kimley»Horn
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LICENSED PROFESSIONAL
MARK GRADIE
FLORIDA LICENSE NUMBER
87476
DATE: ——

FDOT PROJECT
249738000
DATE
10/16/2025
SCALE AS SHOWN
DESIGNED BY MPA
DRAWN BY
CHECKED BY

GENERAL NOTES

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
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Printed by Spencer, Hilton - Plotted: Oct 16, 2025 - 09:36:16pm - K:\ldd_ocala\249738000 - SR 200 & Hwy 484 master infrastructure\CAD\Civil\Cover Sheet\Cover Sheet.dwg
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SANITARY SYSTEM

1. ALL PVC PIPE SHALL BE SOLID WALL POLYVINYL CHLORIDE PIPE AND COMPLY WITH ASTM D 3034 AND ALL APPLICABLE ASTM DOCUMENTS AS COVERED IN SECTION NO. 2 OF ASTM D 3034. MAIN LINES SHALL BE A MINIMUM OF 8" DIAMETER, AND LATERALS SHALL BE A MINIMUM 6" DIAMETER.

2. ALL GRAVITY SEWERS MUST BE SDR 26 PVC. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED FOR PVC PIPE, AND SHALL COMPLY WITH ASTM F477, ASTM D3034 & ASTM F679. JOINTS SHALL COMPLY WITH ASTM D3212.

3. ALL SLOPES FOR GRAVITY SEWER MAINS AND SERVICE CONNECTIONS SHALL COMPLY WITH THE FOLLOWING MINIMUM GRADES: 4" @ 2.00%, 6" @ 1.00% ; AND 8" @ 0.40%

4. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE CITY OF LAKELAND UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.

5. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING PROPOSED FACILITIES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION(S) OF EXISTING CONNECTION POINT(S) AND NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

SANITARY TESTING AND INSPECTION

1. ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER AND APPLICABLE MUNICIPALITY/AGENCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH A LAMPING INSPECTION OF THE PROPOSED GRAVITY SEWER LINE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE LAMPING INSPECTION TO THE ENGINEER, THE OWNER AND THE APPLICABLE MUNICIPALITY/AGENCY.

2. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

3. 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 A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C-924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES.

4. CONTRACTOR TO PERFORM APPROPRIATE DEFLECTION TESTS FOR ALL FLEXIBLE PIPE. 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 DEFLECTION TEST 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.

5. CONTRACTOR TO INSPECT & TEST MANHOLE FOR WATERTIGHTNESS OR DAMAGE PRIOR TO PLACING INTO SERVICE. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.

POTABLE WATER SYSTEM

1. ALL DIP PIPE SHALL BE CLASS 50 OR HIGHER. REFER TO NOTE #4 BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES (PER AWWA, FDEP, AND MARION COUNTY CRITERIA) AGAINST CORROSION SHALL BE UTILIZED.

2. ALL WATER MAIN PIPE FITTINGS AND APPURTENANCES SHALL BE INSTALLED TO COMPLY WITH MARION COUNTY STANDARDS AND SPECIFICATIONS.

3. ALL WATER SERVICE LINES, VALVES AND METERS SHALL BE INSTALLED TO COMPLY WITH APPLICABLE MUNICIPALITY/AGENCY DEPARTMENT STANDARDS AND SPECIFICATIONS.

4. ALL DUCTILE IRON PIPE, 4" TO 24", SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C151/A21.51. PIPE SHALL BE FURNISHED IN 18 OR 20 FOOT SECTIONS, MVT THICKNESS SHALL BE CLASS 50, UNLESS OTHERWISE SPECIFIED.

5. ALL WATER SYSTEM CONSTRUCTION, FROM THE POINT OF CONNECTION IN THE RIGHT OF WAY UP TO AND INCLUDING POINT OF METERING AND BACK FLOW PREVENTION (IF REQUIRED), SHALL BE BUILT ACCORDING TO MARION COUNTY STANDARDS AND SPECIFICATIONS.

6. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE (PER AWWA, FDEP, AND MARION COUNTY CRITERIA) FLUSHING AND DISINFECTION/CHLORINATION.

7. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND MARION COUNTY WATER DEPARTMENT SPECIFICATIONS.

8. ALL PVC WATER MAIN, 6" TO 12" DIAMETER PIPING, SHALL BE AWWA C-900 DR-18. JOINTS SHALL BE RUBBER GASKETED PUSH-ON CONFORMING TO ASTM D1869.

9. POTABLE WATER MAINS WILL BE PVC SDR 21 (200 PSI) FOR PIPES LESS THEN 4". SCHEDULE 40 AND SCHEDULE 80 PIPING MATERIAL ARE ALSO ACCEPTABLE FOR PIPES SIZES LESS THAN 4". THE ABOVE TYPE INSTALLATIONS MUST BEAR THE "NFS" STAMP FOR COMPATIBILITY WITH POTABLE WATER USE.

10. ALL POLYVINYL CHLORIDE PIPE SHALL BE LAID WITH AN INSULATED 10 GAUGE A.W.G. SOLID STRAND COPPER WIRE ON TOP OF THE PIPE. THIS WIRE IS TO BE CONTINUOUS WITH SPLICES MADE ONLY BY METHODS APPROVED BY THE ENGINEER. THIS WIRE IS TO BE SECURED TO ALL VALVES, TEES AND ELBOWS.

11. ALL POTABLE WATER WORK SHALL CONFORM WITH APPLICABLE MARION COUNTY UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.

12. PVC PIPE BURIED BENEATH ROADWAYS, PARKING LOTS OR PARKING LOT ENTRANCES SHALL MEET AWWA SPECIFICATION C900 OR C905, LATEST REVISION. ALL 6" TO 12" PIPE IN SUCH LOCATIONS SHALL BE A MINIMUM OF CLASS 200, DR-14, AND ALL 14" TO 36" PIPE SHALL BE A MINIMUM OF CLASS 235, DR-18.

POTABLE WATER TESTING AND INSPECTION

1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL BE PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH MARION COUNTY UTILITIES DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY THE OWNER'S ENGINEER AND APPLICABLE AGENCY INSPECTORS 2 FULL BUSINESS DAYS IN ADVANCE OF PERFORMING TESTS.

2. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING, AND OBTAIN CLEARANCE OF DOMESTIC AND FIRE LINE WATER SYSTEM(S). COPIES OF ALL BACTERIOLOGICAL TEST RESULTS ARE TO BE SUBMITTED TO THE OWNER'S ENGINEER FOR CERTIFICATION PURPOSES.

3. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE UTILITIES HYDROSTATIC TESTING TO BE WITNESSED BY THE MARION COUNTY WATER DEPARTMENT INSPECTOR.

FDOT BROOKSVILLE OPERATIONS GENERAL NOTES:

1.ALL WORK PERFORMED IN THE DEPARTMENT'S RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITIONS OF:
   A. F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
   B. F.D.O.T. DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM.
   C. F.D.O.T. ROADWAY PLANS PREPARATION MANUAL VOLUME I, CHAPTERS 1, 2, 4, 8, 10, 19 AND/OR 25.
   D. F.D.O.T. FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION.

2. ALL AREAS IN THE FDOT RIGHT OF WAY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED, COMPACTED, SODDED AND WATERED IN CONFORMANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 570 AND 981 AND STANDARD PLANS INDEX 570-010.

3. FDOT ENGINEER MUST APPROVE ALL LANE CLOSURES AT LEAST 48 HOURS IN ADVANCE. WHETHER DAYTIME OR NIGHTTIME CLOSURES WILL BE REQUIRED WILL DEPEND ON THE LOCATION OF THE PROJECT. THE APPLICANT MUST NOTIFY THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE 48 HOURS IN ADVANCE OF STARTING ANY PROPOSED WORK. CALL: BROOKSVILLE MAINTENANCE, PERMITS MANAGER @ 352-848-2600

4. ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC. THE PERMITTEE SHALL FURNISH THE DEPARTMENT WITH THE MANUFACTURER'S CERTIFICATION THAT THE THERMOPLASTIC IS "LEAD FREE". REMOVAL OF EXISTING STRIPING SHALL BE DONE BY MILLING AND RESURFACING OF THE FRICTION/SURFACE COURSE TO OBLITERATE OBSOLETE PAVEMENT MARKINGS.

5. ALL PROPOSED TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH AND CONSTRUCTED TO THE FDOT DESIGN STANDARDS INDEX SERIES 600 AND 700 SERIES. THE PROPERTY OWNER MUST MAINTAIN THE TRAFFIC SIGNS AND MARKINGS FOR THE DRIVEWAY.

6. FOR WORK WITHIN THE FDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN PREPARED UNDER THE DIRECTION OF AND SIGNED AND SEALED BY A LICENSED FLORIDA PROFESSIONAL ENGINEER WHO IS EXPERIENCED IN PREPARING TRAFFIC CONTROL PLANS AND WHO IS CERTIFIED FOR FDOT PROCEDURE TOPIC NO. 625-010-010. THE FDOT REQUIRES DOCUMENTATION FOR SUCCESSFUL COMPLETION OF AN APPROVED WORK ZONE TRAFFIC CONTROL TRAINING COURSE FOR THE AGENCY, UTILITY OR CONTRACTOR EMPLOYEE(S) DESIGNING, INSTALLING AND/OR MAINTAINING THE APPROVED MAINTENANCE OF TRAFFIC PLAN. DOCUMENTATION IS TO BE FURNISHED TO THE DEPARTMENT AT THE PRE-CONSTRUCTION MEETING OR BEFORE OCCUPYING STATE RIGHT-OF-WAY.

7. MAINTENANCE OF TRAFFIC PLAN FOR WORK ZONES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF FDOT STANDARD PLANS INDEX 102 AND IMPLEMENTED PER THE SPECIFIC REQUIREMENTS OF THE CURRENT FDOT STANDARD PLANS INDEX 102 SERIES INCLUDED WITH THESE PLANS.

8. SIDEWALK SHALL BE CONSTRUCTED PER FDOT INDEX 522

9. MAINTENANCE OF TRAFFIC PLAN MUST INCLUDE FDOT STANDARD PLANS INDEX 102-075 PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS.

10. ALL MATERIALS AND PRODUCTS INSTALLED IN THE FDOT RIGHT-OF-WAY (INCLUDING TACTILE SURFACES) SHALL BE IN CONFORMANCE WITH THE FDOT'S APPROVED PRODUCTS LIST (APL), AND THE MATERIALS SOURCE LISTING (TIMBER AND PIPE, ETC.).

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

NO.	DESCRIPTION	DATE	BY
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LICENSED PROFESSIONAL ENGINEER
MARK GRAUE
FLORIDA LICENSE NUMBER 87476
DATE: ____

FPN PROJECT 24973800
DATE 10/14/2025
SCALE AS SHOWN
DESIGNED BY MPA
DRAWN BY
CHECKED BY

GENERAL NOTES

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C1.1

Printed by Stamper, Milton Date Jan 20,2026 & Plotted: Jan 20,2026 09:36:16pm K:\JAX_civil\249738000 - sr 200 & hwy 484 master infrastructure\CAD\CONSTR\Plan Sheets\C1.1 - GENERAL.dwg
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STORMWATER POLLUTION PREVENTION PLAN

SITE DESCRIPTION

PROJECT NAME AND LOCATION

SR 200 & HWY 484 MASTER INFRASTRUCTURE
PARCEL ID #: 35341-002-01
MARION COUNTY, FLORIDA

*SEE COVER SHEET FOR LOCATION MAP

DEVELOPER NAME AND ADDRESS
RJB COMMERCIAL
217 9TH AVE NORTH
SAINT PETERSBURG, FL 33701
CONTACT: JOE TYSZKO
PHONE: (727) 709-3382
EMAIL: JTYSZKO3022@GMAIL.COM

PROJECT DESCRIPTION

THE PROPOSED PROJECT WILL CONSIST OF DEVELOPING A MIXED-USE COMMERCIAL DEVELOPMENT ON A +/- 11.99 ACRE PARCEL (PARCEL ID 35341-002-01). MORE SPECIFICALLY LOCATED ON THE NORTHWEST CORNER OF STATE ROAD 200 AND HIGHWAY 484 IN UNINCORPORATED MARION COUNTY, FLORIDA.
PROJECT AREA: ±11.99 ACRES
CONTRIBUTING DRAINAGE AREA: ±13.01 ACRES

LONGITUDE : W 82° 17' 02.81" LATITUDE: N 29° 03' 16.80"

ULTIMATE RECEIVING WATERS: N/A
ACTIVITIES THAT REQUIRE EROSION CONTROL

SITE CLEARING AND GRUBBING; PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; SITE GRADING; INSTALLATION OF STORM WATER, SANITARY SEWER, AND WATER STRUCTURES; CURB, ROADWAYS, AND PARKING FACILITIES.

*SEE PLANS FOR THE LOCATION OF TEMPORARY SEDIMENT BARRIERS AND OTHER EROSION CONTROL METHODS.

SOIL PARAMETERS

SOIL TYPES:

SERIES NAME	HYDROLOGIC GROUP
ASTATULA SAND, 0 TO 5 PERCENT SLOPES	A
CHANDLER SAND, 0 TO 5 PERCENT SLOPES	A
CHANDLER SAND, 5 TO 12 PERCENT SLOPES	A

SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF CONSTRUCTION IS AS FOLLOWS:

1. PROVIDE STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND OTHER EROSION CONTROL METHODS
3. CLEAR SITE AND GRUB IN ACCORDANCE WITH DEMOLITION PLAN
4. CONSTRUCT EARTH DIKE AND SEDIMENT BASIN
5. FINISH CLEARING AND GRUBBING
6. REMOVE AND STORE TOPSOIL
7. PROVIDE INITIAL GRADING AS REQUIRED
8. STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE
9. INSTALL UTILITIES, STORM SEWER, CURB AND GUTTER
10. INSTALL BASE TO ROAD AND PARKING AREA
11. FINISH GRADING ENTIRE SITE
12. CONSTRUCT FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT
14. REMOVE ANY ITEMS THAT ARE NOT REQUIRED

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

TIMING OF CONTROL MEASURES

THE INSTALLATION OF SILT FENCE (AND OTHER EROSION CONTROL MEASURES), A STABILIZED ENTRANCE AND SEDIMENT BASIN SHALL OCCUR PRIOR TO CLEARING AND GRUBBING ACTIVITY. AFTER CONSTRUCTION IS COMPLETE, THE ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE AREAS SHALL BE REGRADED AND PERMANENTLY STABILIZED AS SHOWN ON THE PLANS.

EROSION AND SEDIMENT CONTROLS

BEST MANAGEMENT PRACTICES SHALL BE USED FOR THIS PROJECT TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN-OFF. THE LOCATION AND DETAILS OF EROSION CONTROL METHODS ARE SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN ON THE PLANS OR AS REQUIRED. HE/SHE SHALL ALSO PROVIDE THE REQUIRED EROSION PROTECTION AS REQUIRED BY LOCAL, STATE AND FEDERAL LAW.

STORM WATER MANAGEMENT

STORMWATER COLLECTION SHALL BE PROVIDED BY DITCH BOTTOM INLETS. THE RUNOFF FROM THE SITE WILL DISCHARGE TO THE EXISTING STORMWATER POND ON TRACT 16B THAT IS PART OF THE APPROVED MASTER STORMWATER PLAN FOR THE QUADRANGLE DEVELOPMENT. THE POND IS DESIGNED IN ACCORDANCE WITH SWFWMD SPECIFICATIONS AND MARION COUNTY LAND DEVELOPMENT CODE.

STABILIZATION PRACTICES:

TEMPORARY STABILIZATION - TOPSOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE, SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED REQUIRED CAN BE FOUND IN TABLE 1.65 A OF THE FLORIDA DEVELOPMENT MANUAL. PRIOR TO SEEDING, WHERE SOILS ARE ACIDIC 2 TONS OF PULVERIZED AGRICULTURAL LIMESTONE SHOULD BE ADDED PER ACRE AND 450 POUNDS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EACH ACRE. AFTER SEEDING, EACH AREA SHALL BE IMMEDIATELY MULCHED WITH STRAW OR EQUIVALENT EQUAL. AREAS OF THE SITE WHICH ARE TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUB-BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE APPROPRIATE PERMANENT SEED MIX CAN BE FOUND IN TABLES 1.66A, 1.66B AND 1.66C OF THE FLORIDA DEVELOPMENT MANUAL. PRIOR TO SEEDING, 2 TONS/ACRE OF FINELY GROUND AGRICULTURAL LIMESTONE AND THE PROPER FERTILIZER BASED ON THE TYPE OF SEEDING SHALL BE APPLIED TO EACH ACRE TO PROVIDE PLANT NUTRIENTS. AFTER SEEDING, EACH AREA SHALL BE MULCHED IMMEDIATELY.

STRUCTURAL PRACTICES:

EARTH DIKE - IF REQUIRED, AN EARTH DIKE SHALL BE CONSTRUCTED ALONG THE SITE PERIMETER. A PORTION OF THE DIKE SHALL DIVERT RUN-ON AROUND THE CONSTRUCTION SITE. THE REMAINING PORTION OF THE DIKE SHALL COLLECT RUNOFF FROM THE DISTURBED AREA AND DIRECT THE RUNOFF TO THE SEDIMENT BASIN.

SEDIMENT BASIN - A SEDIMENT BASIN SHALL BE CONSTRUCTED IN THE COMMON DRAINAGE AREA FOR THE SITE. ALL SEDIMENT COLLECTED IN THE BASIN MUST BE REMOVED FROM THE BASIN UPON COMPLETION OF CONSTRUCTION. SEDIMENT FROM THE BASIN MAY BE USED AS FILL ON THE SITE IF IT IS SUITABLE SOIL.

WASTE DISPOSAL

WASTE MATERIALS - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

HAZARDOUS WASTE - HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.

SANITARY WASTE - SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.

OFF-SITE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.

DUST & DEBRIS CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL WITHIN THE CONSTRUCTION LIMITS AS WELL AS ALONG HAUL ROUTES AND ROADWAYS USED BY THE EQUIPMENT AND VEHICLES. THE CONTRACTOR SHALL ENSURE THAT EXCESSIVE DUST IS NOT TRANSPORTED BEYOND THE LIMITS OF CONSTRUCTION IN POPULATED AREAS. THE CONTRACTOR MAY CONTROL DUST FOR EMBANKMENTS OR OTHER CLEARED OR UNSURFACED AREAS BY APPLYING WATER. INSTALL MULCH, SEED, SOD, OR TEMPORARY PAVING AS EARLY AS PRACTICAL. CONTROL DUST DURING STORAGE AND HANDLING OF DUSTY MATERIALS BY WETTING, COVERING, OR OTHER MEANS AS APPROVED BY THE ENGINEER.
DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE ON THE PROJECT SITE.

ITEMS REQUIRING POLLUTION PREVENTION

THE FOLLOWING ITEMS ARE EXPECTED TO BE PRESENT ON THE PROJECT SITE:

-ASPHALT
-CONCRETE
-FERTILIZERS
-METAL PIECES
-PETROLEUM BASED PRODUCTS
-TAR
-CLEANING SUPPLIES
-DETERGENTS
-MASONARY BLOCK/BRICKS
-PAINT
-WOOD

THE FOLLOWING ARE NON-STORM WATER SOURCES THAT WILL BE ENCOUNTERED AT THE SITE AND SHOULD BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE:

-UNCONTAMINATED GROUNDWATER EXPOSED DURING EXCAVATION
-WATER FROM WATER LINE FLUSHING
-PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.

STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.

ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.

ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.

PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.

ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

HAZARDOUS PRODUCTS

MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.

PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.

THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.

CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

-SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.

-THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.

-ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.

-WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.

-TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.

-AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.

-THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

MAINTENANCE AND INSPECTION PRACTICES

THE FOLLOWING ARE MAINTENANCE AND INSPECTION PRACTICES THAT SHALL BE COMPLETED BY THE CONTRACTOR:

-ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE CHECKED DAILY AND AFTER EACH 0.5 INCH OR GREATER RAINFALL BY THE SUPERINTENDENT OR SOMEONE UNDER HIS/HER DIRECT SUPERVISION.

-ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE KEPT IN GOOD CONDITION. REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.

-THE SILT FENCE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF FENCE.

-THE SILT FENCE SHALL BE CLEARED OF SEDIMENT WHEN SEDIMENT MEASURES ONE-THIRD THE HEIGHT OF THE FENCE.

-THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. THEY SHALL BE CLEANED WHEN SEDIMENT REACHES 10% OF TOTAL CAPACITY AND AFTER CONSTRUCTION IS COMPLETE.

-DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.

-ALL SEEDING SHALL BE CHECKED FOR PROPER GROWTH AND UNIFORMITY. UNSTABALIZED AREAS SHALL BE RE-SODDED.

-A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.

-THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.

POLLUTION PREVENTION PLAN CERTIFICATION

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

SIGNED: _____ DATE:_____

MARK GRANDE
FLORIDA REGISTRATION NUMBER: 87476
PROFESSIONAL ENGINEER

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FORM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

SIGNATURE AND DATE	NAME AND TITLE, COMPANY / ADDRESS AND TELEPHONE NUMBER	RESPONSIBILITY

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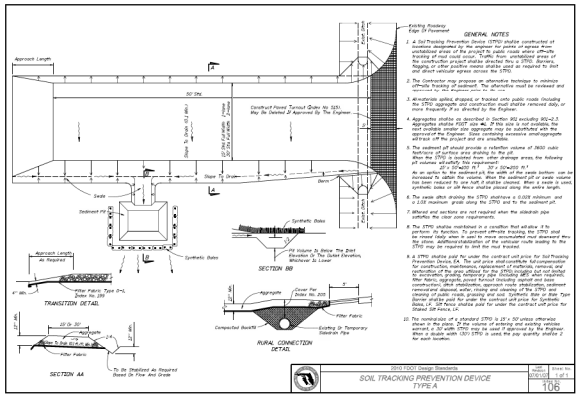
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MARK GRANDE
FLORIDA LICENSE NUMBER
87476
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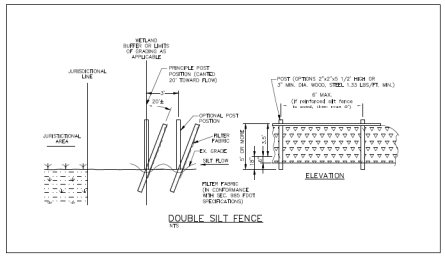
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MARION COUNTY FLORIDA

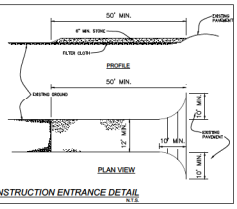
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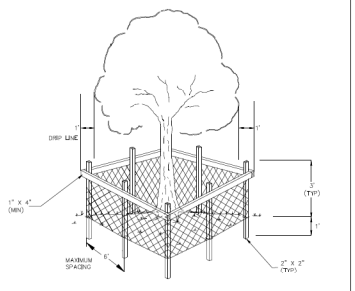


STABILIZED CONSTRUCTION ENTRANCE NOTES:

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA, PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVED SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

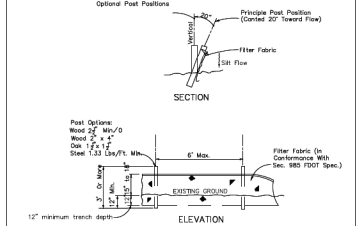


STABILIZED CONSTRUCTION ENTRANCE DETAIL
NTS

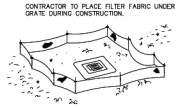


TREE PROTECTION DETAIL
NTS

1. NO TREE SHALL BE REMOVED UNLESS SPECIFICALLY TAGGED FOR REMOVAL.
2. A PROTECTIVE BARRIER SHALL BE ERECTED AROUND ALL TREES AND NATIVE VEGETATION THAT ARE TO REMAIN PERMANENTLY ON-SITE.
3. ROOTS GREATER THAN 1" DIAMETER SHALL NOT BE CUT UNLESS OTHERWISE APPROVED.
4. STOCKPILED MATERIALS OR UNNECESSARY VEHICULAR TRAFFIC SHALL NOT BE ALLOWED OVER ANY TREE ROOTS SYSTEM.
5. PROTECTIVE BARRIERS ARE TO BE CONSTRUCTED USING NO LESS THAN 2"X4" LUMBER FOR THE UPRIGHT POSTS. UPRIGHT POSTS ARE TO BE AT LEAST 4 FEET IN LENGTH WITH A MINIMUM OF ONE FOOT ANCHORED IN THE GROUND AND THREE FEET ABOVE GROUND. UPRIGHT POSTS ARE TO BE PLACED AT A MAXIMUM DISTANCE OF 8 FEET APART. HORIZONTAL RAILS ARE TO BE CONSTRUCTED USING NO LESS THAN 1"X4" LUMBER AND SHALL BE SECURELY ATTACHED TO THE TOP OF THE UPRIGHT POSTS. A PVC– TYPE SAFETY FENCE THE HEIGHT OF THE BARRIER SHALL BE ATTACHED TO THE UPRIGHT POSTS. THE TOP RAIL AND THE GROUND, WITHFASTENERS A MAXIMUM OF 8 INCHES APART. BARRIERS SHALL EXTEND AT LEAST ONE FOOT BEYOND THE DRIP LINE OF ALL PROTECTED TREES ON THE PROPERTY AND SHALL BE AT LEAST THREE FEET HIGH.



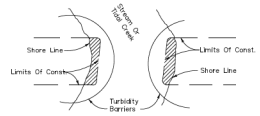
TYPE III SILT FENCE
NTS



Type III Silt Fence Protection Around Ditch Bottom Inlets.

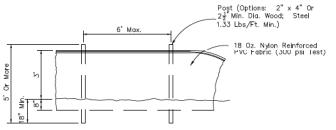
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS
NTS

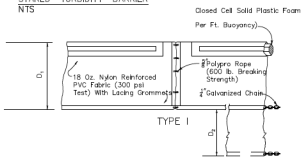


NOTE:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED TURBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



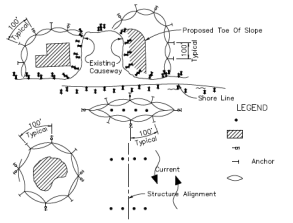
STAKED TURBIDITY BARRIER
NTS



D_1 =5' Std. (Single Panel For Depths 5' or Less).
D_2 =5' Std. (Additional Panel For Depths 5').
Curtain to Reach Bottom Up To Depths Of 10 Feet. Two(2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
NTS



NOTES:
1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. FOR ADDITIONAL INFORMATION REFER TO FDOT INDEX #103

NO.	DATE	REVISIONS
1	07	
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REGISTERED PROFESSIONAL
MARK GRABLE
FLORIDA LICENSE NUMBER
87476
STATE OF FLORIDA
DATE

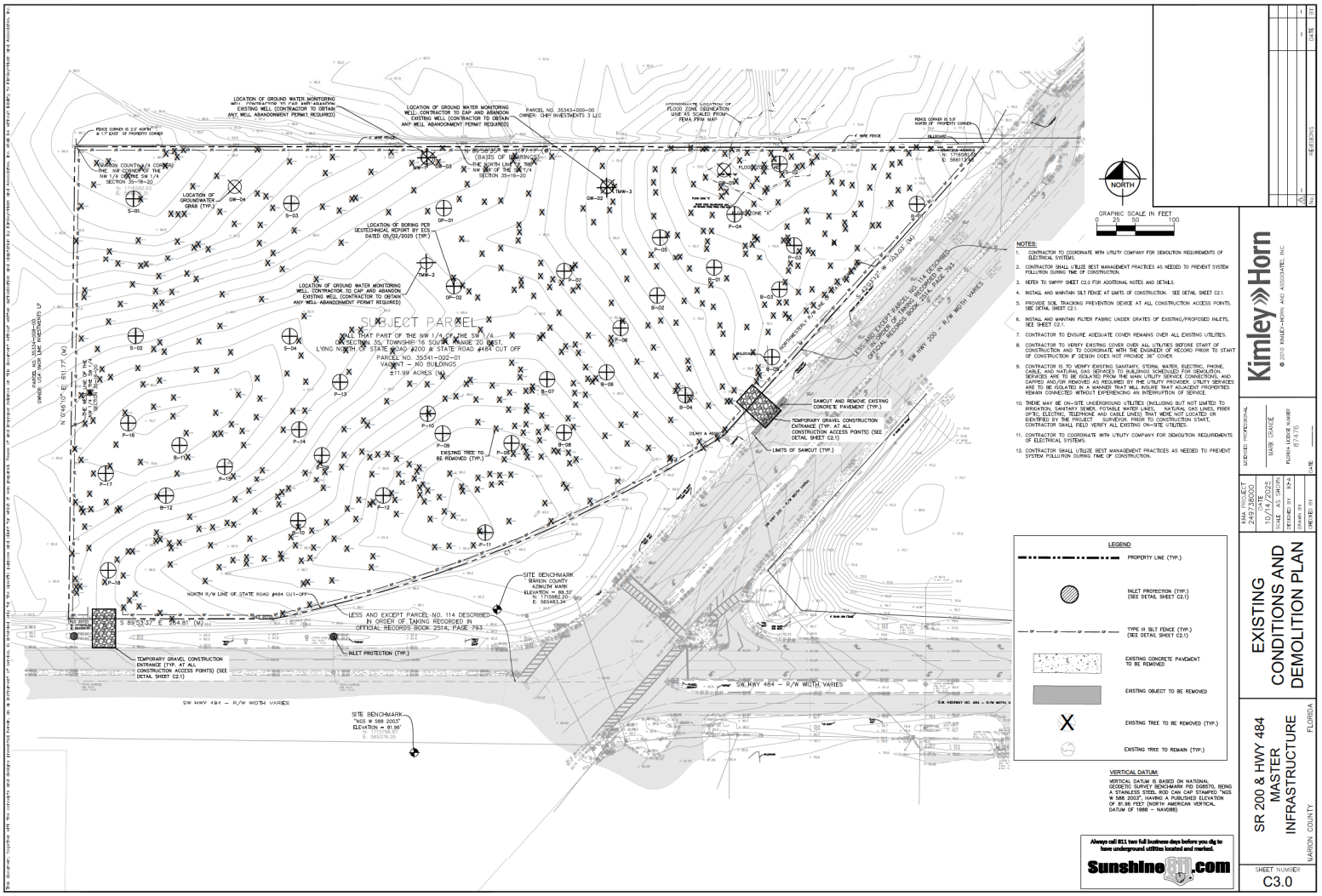
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249738000
DATE
10/7/2025
SCALE AS SHOWN
DESIGNED BY HNA
DRAWN BY
CHECKED BY

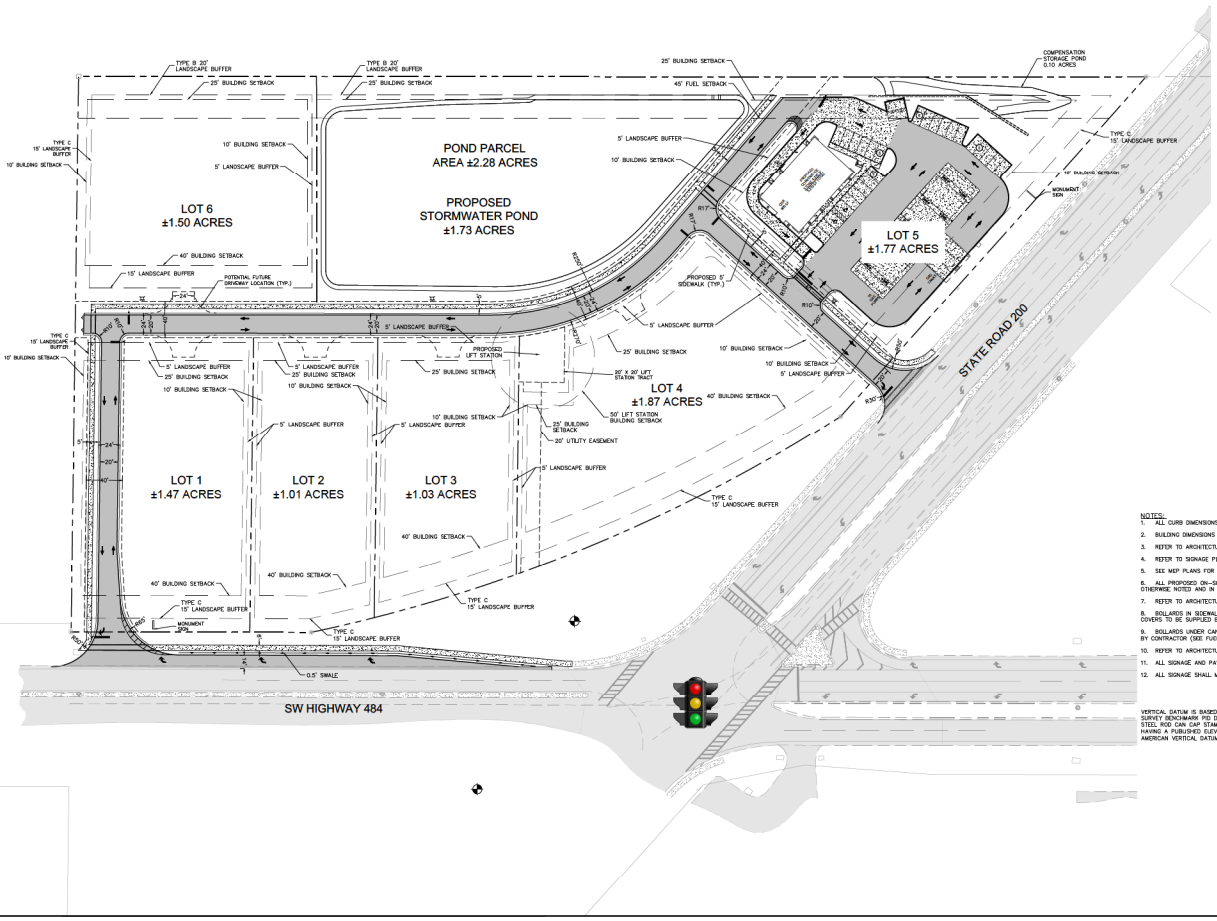
EROSION CONTROL DETAILS

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C2.1

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SUBJECT PARCEL
ALL THAT PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST, LYING NORTH OF STATE ROAD #200 & STATE ROAD #484 CUT OFF
PARCEL NO. 35541-002-01
VACANT – NO BUILDINGS
±11.99 ACRES (M)
LOCATION OF GROUND WATER MONITORING WELL: CONTRACTOR TO CAP AND ABANDON EXISTING WELL (CONTRACTOR TO OBTAIN ANY WELL ABANDONMENT PERMIT REQUIRED)
LOCATION OF BORING PER GEOTECHNICAL REPORT BY ECS DATED 09/02/2025 (TYP.)
LOCATION OF GROUNDWATER GRAB (TYP.)
MARION COUNTY "A" CORNER THE NW CORNER OF THE NW 1/4 COMMON TO THE NW 1/4 OF THE SW 1/4 SECTION 35-16-20
PARCEL NO. 35343-000-00
OWNER: DHP INVESTMENTS 3 LLC
APPROXIMATE LOCATION OF FLOOD ZONE DEMARCATION LINE AS SCALED FROM FEMA FIRM MAP
FENCE CORNER IS 0.9' NORTH OF PROPERTY CORNER
FENCE CORNER IS 2.0' NORTH & 1.7' EAST OF PROPERTY CORNER
(BASIS OF BEARINGS) THE NORTH LINE OF THE NW 1/4 OF THE SW 1/4 SECTION 35-16-20
N 0°46'10" E 817.77' (M)
S 89°53'37" E 264.81' (M)
NORTH R/W LINE OF STATE ROAD #484 CUT-OFF
LESS AND EXCEPT PARCEL NO. 114 DESCRIBED IN ORDER OF TAKING RECORDED IN OFFICIAL RECORDS BOOK 2514, PAGE 793
SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT (TYP.)
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE (TYP. AT ALL CONSTRUCTION ACCESS POINTS) (SEE DETAIL SHEET C2.1)
LIMITS OF SAWCUT (TYP.)
EXISTING TREE TO BE REMOVED (TYP.)
INLET PROTECTION (TYP.)
SITE BENCHMARK MARION COUNTY ADMIN MARK ELEVATION = 81.96' N: 1715788.22' E: 565483.34
SITE BENCHMARK "NGS W 588 2003" ELEVATION = 81.96' N: 1715786.87' E: 565376.05
SW HWY 484 – R/W WIDTH VARIES
SW HWY 200 – R/W WIDTH VARIES
NORTH
GRAPHIC SCALE IN FEET
0 25 50 100
NOTES:
1. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR DEMOLITION REQUIREMENTS OF ELECTRICAL SYSTEMS.
2. CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES AS NEEDED TO PREVENT SYSTEM POLLUTION DURING TIME OF CONSTRUCTION.
3. REFER TO SWPPP SHEET C2.0 FOR ADDITIONAL NOTES AND DETAILS.
4. INSTALL AND MAINTAIN SILT FENCE AT LIMITS OF CONSTRUCTION. SEE DETAIL SHEET C2.1.
5. PROVIDE SOIL TRACKING PREVENTION DEVICE AT ALL CONSTRUCTION ACCESS POINTS. SEE DETAIL SHEET C2.1.
6. INSTALL AND MAINTAIN FILTER FABRIC UNDER GRATES OF EXISTING/PROPOSED INLETS. SEE SHEET C2.1.
7. CONTRACTOR TO ENSURE ADEQUATE COVER REMAINS OVER ALL EXISTING UTILITIES.
8. CONTRACTOR TO VERIFY EXISTING COVER OVER ALL UTILITIES BEFORE START OF CONSTRUCTION AND TO COORDINATE WITH THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION IF DESIGN DOES NOT PROVIDE 36" COVER.
9. CONTRACTOR IS TO VERIFY EXISTING SANITARY, STORM, WATER, ELECTRIC, PHONE, CABLE AND NATURAL GAS SERVICES TO BUILDINGS SCHEDULED FOR DEMOLITION. SERVICES ARE TO BE ISOLATED FROM THE MAIN UTILITY SERVICE CONNECTIONS, AND CAPPED AND/OR REMOVED AS REQUIRED BY THE UTILITY PROVIDER. UTILITY SERVICES ARE TO BE ISOLATED IN A MANNER THAT WILL ENSURE THAT ADJACENT PROPERTIES REMAIN CONNECTED WITHOUT EXPERIENCING AN INTERRUPTION OF SERVICE.
10. THERE MAY BE ON-SITE UNDERGROUND UTILITIES (INCLUDING BUT NOT LIMITED TO IRRIGATION, SANITARY SEWER, POTABLE WATER LINES, NATURAL GAS LINES, FIBER OPTIC, ELECTRIC, TELEPHONE AND CABLE LINES) THAT WERE NOT LOCATED OR IDENTIFIED BY THE PROJECT SURVEYOR PRIOR TO CONSTRUCTION START. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ON-SITE UTILITIES.
11. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR DEMOLITION REQUIREMENTS OF ELECTRICAL SYSTEMS.
12. CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES AS NEEDED TO PREVENT SYSTEM POLLUTION DURING TIME OF CONSTRUCTION.
LEGEND
PROPERTY LINE (TYP.)
INLET PROTECTION (TYP.) (SEE DETAIL SHEET C2.1)
TYPE III SILT FENCE (TYP.) (SEE DETAIL SHEET C2.1)
EXISTING CONCRETE PAVEMENT TO BE REMOVED
EXISTING OBJECT TO BE REMOVED
EXISTING TREE TO BE REMOVED (TYP.)
EXISTING TREE TO REMAIN (TYP.)
VERTICAL DATUM:
VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK PID DG8670, BEING A STAINLESS STEEL ROD CAN CAP STAMPED "NGS W 588 2003", HAVING A PUBLISHED ELEVATION OF 81.96 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988 – NAVD88)
Always call 811 two full business days before you dig to have underground utilities located and marked.
SunshineSunshine811.com
NO. BY DATE REVISIONS
1 CT
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LICENSED PROFESSIONAL
MARK GRAVLEE
FLORIDA LICENSE NUMBER 87476
DATE
HHA PROJECT 249738000
DATE 10/7/2025
SCALE AS SHOWN
DESIGNED BY HHA
DRAWN BY
CHECKED BY
EXISTING CONDITIONS AND DEMOLITION PLAN
SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA
SHEET NUMBER C3.0



NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

SITE DATA:

PROJECT NAME: SR 200 & HWY 484 MASTER INFRASTRUCTURE
PROPERTY OWNER(S): LANDYA ALLIANCE PARK, INC.
ADDRESS: 1201 OAKFIELD AIRFIELD DR STE 109 BRANDON, FL 33510
PARCEL ID'S: 35341-002-01

AREA: 411.99 ACRES
REQUIRED CODE: MARION COUNTY CODE OF ORDINANCES
FLU/ZONING: REGIONAL BUSINESS (BI-4)
PROPOSED USE: COMMERCIAL

BUILDING HEIGHT:
MAX ALLOWED: 50 FT

BUILDING SETBACKS:	REQUIRED	PROVIDED
FRONT (EAST):	40 FT	40 FT
SIDE (NORTH(WITH GAS PUMP)):	45 FT	45 FT
SIDE (WEST):	10 FT	10 FT
FRONT (SOUTH):	40 FT	40 FT

LANDSCAPE SETBACKS:	REQUIRED	PROVIDED
SIDE (WEST):	15 FT	15 FT
SIDE (NORTH):	20 FT	20 FT
FRONT (SOUTH):	15 FT	15 FT
FRONT (EAST):	15 FT	15 FT

PARKING REQUIRED:
RETAIL STORE
1 SPACES / 300 SF GFA 18
TOTAL REQUIRED PARKING 18

PARKING PROVIDED:
PROPOSED HANDICAP SPACES (12'X20'): 2
PROPOSED REGULAR SPACES (10'X20'): 24
PROPOSED ON-SITE SPACES: 26

BICYCLE PARKING
PROVIDED SPACES: 2

NOTES:
1. ALL CURB DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
2. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
4. REFER TO SIGNAGE PLANS FOR MONUMENT SIGN DETAILS.
5. SEE MEP PLANS FOR ELECTRICAL DRAWINGS.
6. ALL PROPOSED ON-SITE STRIPING AND PAVEMENT MARKING WILL BE PAINTED UNLESS OTHERWISE NOTED AND IN ACCORDANCE WITH FDOT INDEX 711-001.
7. REFER TO ARCHITECTURAL PLANS FOR PROPOSED TRASH CAN LOCATIONS AND DESIGN.
8. BOLLARDS IN SIDEWALK ADJACENT TO BUILDING SHALL BE COVERED WITH RED PLASTIC COVERS TO BE SUPPLIED BY CONTRACTOR.
9. BOLLARDS UNDER CANOPY SHALL BE COVERED WITH GRAY PLASTIC COVERS TO BE SUPPLIED BY CONTRACTOR (SEE FUEL PUMP DESIGNER PLANS FOR MORE DETAIL).
10. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING AND ELECTRICAL PLANS.
11. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL MEET MUTCD AND FDOT STANDARDS.
12. ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF MARION COUNTY..

VERTICAL DATUM:
VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK PID DG0670, TBM #1, A STAINLESS STEEL ROD CAP STAMPED "NOS W 689 2003", HAVING A PUBLISHED ELEVATION OF 81.96 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988 – NAVD88)

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NO.	REVISIONS	DATE	BY
1	–	–	–

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LICENSED PROFESSIONAL
MARK GRAHLE
FLORIDA LICENSE NUMBER 87476
DATE

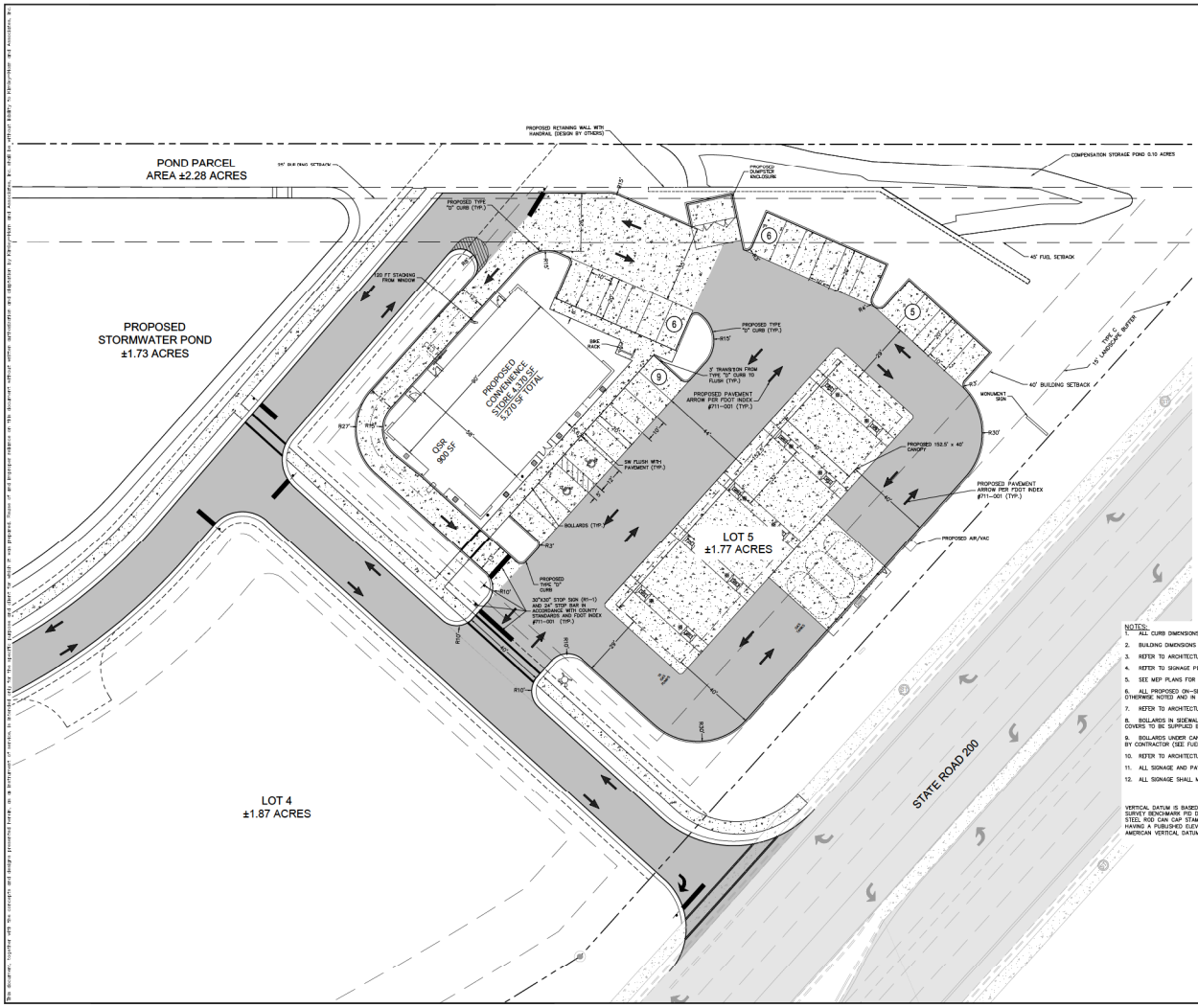
KHA PROJECT 249736000
DATE 10/14/2025
SCALE AS SHOWN
DESIGNED BY MPA
DRAWN BY
CHECKED BY

OVERALL SITE PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C4.0

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SITE DATA:

PROJECT NAME:	SR 200 & HWY 484 MASTER INFRASTRUCTURE
PROPERTY OWNERSHIP:	TAMPA ACQUISITIONS INC
ADDRESS:	1201 OAKFIELD AHFIELD DR STE 109 BRANDON, FL 33510
PARCEL ID'S:	35341-002-01
AREA:	±11.99 ACRES
REQUIRED CODE:	MARION COUNTY CODE OF ORDINANCES
FLU/ZONING:	REGIONAL BUSINESS (R-4)
PROPOSED USE:	COMMERCIAL

BUILDING HEIGHT:

MAX ALLOWED:	50 FT

BUILDING SETBACKS:

	REQUIRED	PROVIDED
FRONT (EAST):	40 FT	40 FT
SIDE (NORTH(WITH GAS PUMP)):	45 FT	45 FT
SIDE (WEST):	10 FT	10 FT
FRONT (SOUTH):	40 FT	40 FT

LANDSCAPE SETBACKS:

	REQUIRED	PROVIDED
SIDE (WEST):	15 FT	15 FT
SIDE (NORTH):	20 FT	20 FT
FRONT (SOUTH):	15 FT	15 FT
FRONT (EAST):	15 FT	15 FT

PARKING REQUIRED:

RETAIL STORE	
1 SPACES / 300 SF GFA	18
TOTAL REQUIRED PARKING	18

PARKING PROVIDED:

PROPOSED HANDICAP SPACES (12'X20'):	2
PROPOSED REGULAR SPACES (10'X20'):	24
PROPOSED ON-SITE SPACES:	26

BICYCLE PARKING:

PROVIDED SPACES:	2

NOTES:

1. ALL CURB DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
2. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
4. REFER TO SIGNAGE PLANS FOR MONUMENT SIGN DETAILS.
5. SEE MEP PLANS FOR ELECTRICAL DRAWINGS.
6. ALL PROPOSED ON-SITE STRIPING AND PAVEMENT MARKING WILL BE PAINTED UNLESS OTHERWISE NOTED AND IN ACCORDANCE WITH FDOT INDEX 711-001.
7. REFER TO ARCHITECTURAL PLANS FOR PROPOSED TRASH CAN LOCATIONS AND DESIGN.
8. BOLLARDS IN SIDEWALK ADJACENT TO BUILDING SHALL BE COVERED WITH RED PLASTIC COVERS TO BE SUPPLIED BY CONTRACTOR.
9. BOLLARDS UNDER CANOPY SHALL BE COVERED WITH GRAY PLASTIC COVERS TO BE SUPPLIED BY CONTRACTOR (SEE FUEL PUMP DESIGNER PLANS FOR MORE DETAIL).
10. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING AND ELECTRICAL PLANS.
11. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL MEET MUTCD AND FDOT STANDARDS.
12. ALL SIGNAGE SHALL MEET THE REQUIREMENTS OF MARION COUNTY.

VERTICAL DATUM:

VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK PID DO0376. TBM IS A STAINLESS STEEL ROD CAN CAP STAMPED "NOS W 588 2003", HAVING A PUBLISHED ELEVATION OF 81.96 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988 – NAVD88)

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NO.	DESCRIPTION	DATE
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2	–	–

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LICENSED PROFESSIONAL
MARK GRADIE
FLORIDA LICENSE NUMBER
87476
DATE

KHA PROJECT
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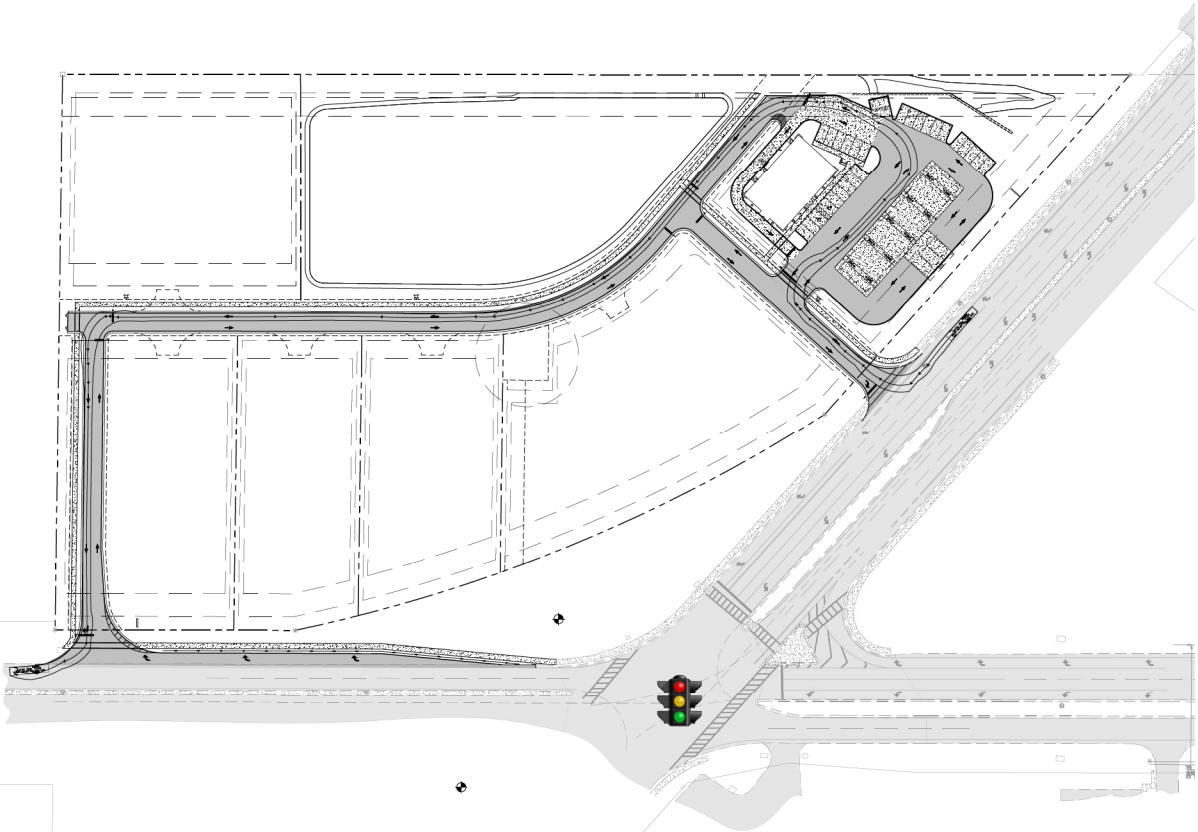
C-STORE SITE PLAN

SR 200 & HWY 484
MASTER
INFRASTRUCTURE

MARION COUNTY FLORIDA

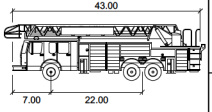
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NORTH

GRAPHIC SCALE IN FEET
0 25 50 100



Aerial Fire Truck

	feet
Width	8.50
Track	0.50
Lock to Lock Time	6.0
Steering Angle	33.3

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1	–	–

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LICENSED PROFESSIONAL ENGINEER
MARK GRAHAM
FLORIDA LICENSE NUMBER 87475
DATE

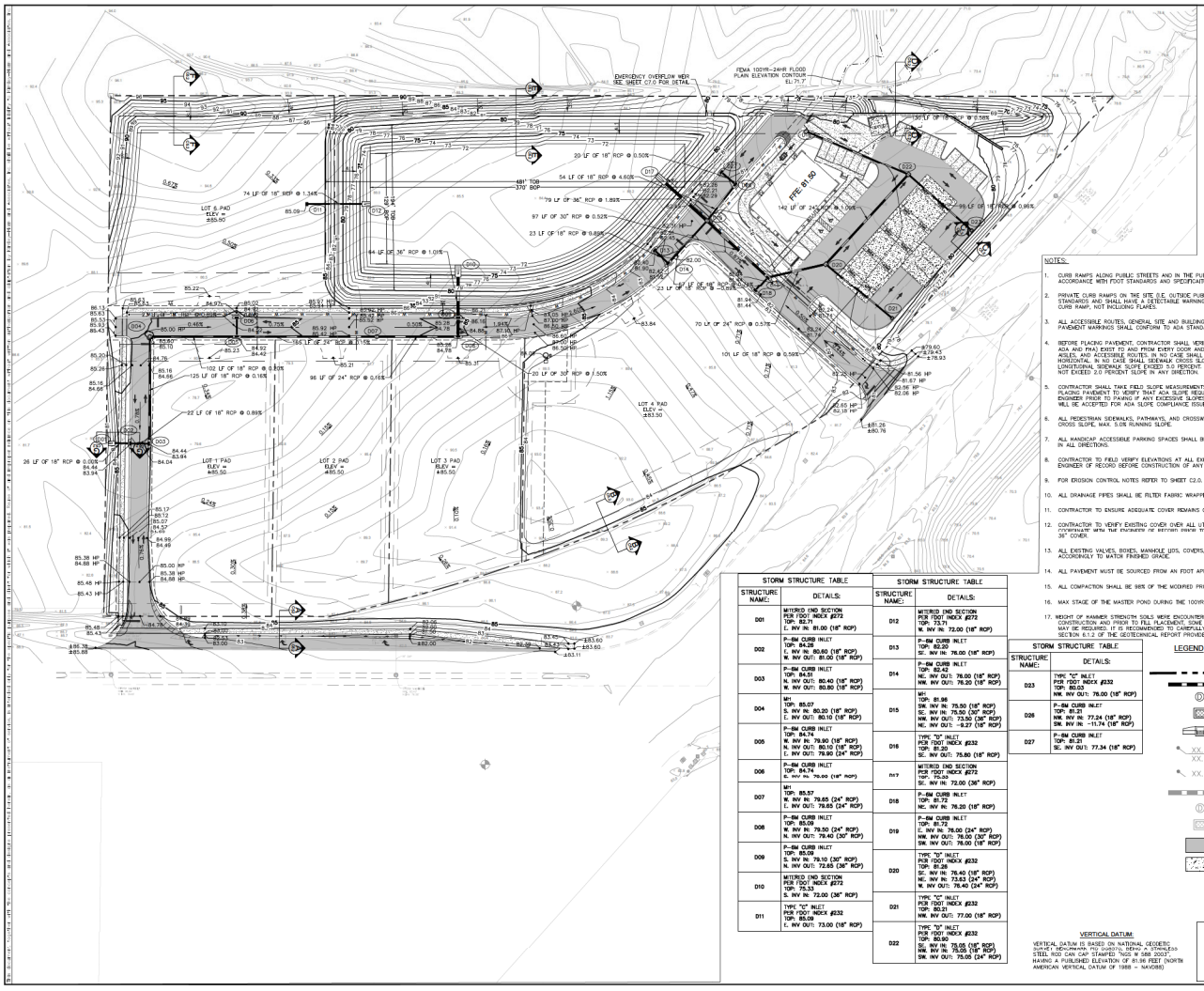
KHA PROJECT 249738000
DATE 10/14/2025
SCALE AS SHOWN
DESIGNED BY MHA
DRAWN BY
CHECKED BY

FIRE TRUCK ROUTE

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C4.2

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NOTES:

1. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATIONS.
2. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
3. ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
4. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
5. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
6. ALL PEDESTRIAN SIDEWALKS, PATHWAYS, AND CROSSWALKS SHALL BE CONSTRUCTED NOT TO EXCEED MAX. 2.0% CROSS SLOPE, MAX. 5.0% RUNNING SLOPE.
7. ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED NOT TO EXCEED MAX. 2.0% CROSS SLOPE IN ALL DIRECTIONS.
8. CONTRACTOR TO FIELD VERIFY ELEVATIONS AT ALL EXISTING SIDEWALK AND ROAD CONNECTION POINTS WITH ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY IMPROVEMENTS.
9. FOR EROSION CONTROL NOTES REFER TO SHEET C2.0.
10. ALL DRAINAGE PIPES SHALL BE FILTER FABRIC WRAPPED PER FDOT STANDARD PLAN #430-001.
11. CONTRACTOR TO ENSURE ADEQUATE COVER REMAINS OVER ALL EXISTING UTILITIES.
12. CONTRACTOR TO VERIFY EXISTING COVER OVER ALL UTILITIES BEFORE START OF CONSTRUCTION AND TO COORDINATE WITH THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION IF DESIGN DOES NOT PROVIDE 36" COVER.
13. ALL EXISTING VALVES, BOXES, MANHOLE LIDS, COVERS, AND SIMILAR APPURTENANCES MUST BE ADJUSTED ACCORDINGLY TO MATCH FINISHED GRADE.
14. ALL PAVEMENT MUST BE SOURCED FROM AN FDOT APPROVED PLANT.
15. ALL COMPACTION SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T-180).
16. MAX STAGE OF THE MASTER POND DURING THE 100YR-24HR STORM EVENT IS 77.78'.
17. WEIGHT OF HAMMER STRENGTH SOILS WERE ENCOUNTERED WITHIN THE UPPER 4 FEET BENEATH GRADE. DURING CONSTRUCTION AND PRIOR TO FILL PLACEMENT, SOME UNDERCUTTING AND COMPACTION OF THESE MATERIALS MAY BE REQUIRED. IT IS RECOMMENDED TO CAREFULLY PROOFROLL THE PAVEMENT AREAS AS OUTLINED IN SECTION 6.1.2 OF THE GEOTECHNICAL REPORT PROVIDED BY ECS, DATED 05/02, 2024.

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D01	MITERED END SECTION PER FDOT INDEX #272 TOP: 82.71 E. INV IN: 81.00 (18" RCP)
D02	P-8M CURB INLET TOP: 84.28 E. INV IN: 80.60 (18" RCP) W. INV OUT: 81.00 (18" RCP)
D03	P-8M CURB INLET TOP: 84.51 N. INV OUT: 80.40 (18" RCP) W. INV OUT: 80.80 (18" RCP)
D04	MH TOP: 85.07 S. INV IN: 80.20 (18" RCP) E. INV OUT: 80.10 (18" RCP)
D05	P-8M CURB INLET TOP: 84.74 W. INV IN: 79.90 (18" RCP) N. INV OUT: 80.10 (18" RCP) E. INV OUT: 79.90 (24" RCP)
D06	P-8M CURB INLET TOP: 84.74 E. INV IN: 79.00 (18" RCP)
D07	MH TOP: 85.57 W. INV IN: 79.65 (24" RCP) E. INV OUT: 79.85 (24" RCP)
D08	P-8M CURB INLET TOP: 85.09 W. INV IN: 79.50 (24" RCP) N. INV OUT: 79.40 (30" RCP)
D09	P-8M CURB INLET TOP: 85.09 S. INV IN: 79.10 (30" RCP) N. INV OUT: 79.00 (36" RCP)
D10	MITERED END SECTION PER FDOT INDEX #272 TOP: 75.33 S. INV IN: 72.00 (36" RCP)
D11	TYPE "C" INLET PER FDOT INDEX #232 TOP: 85.09 E. INV OUT: 73.00 (18" RCP)

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D12	MITERED END SECTION PER FDOT INDEX #272 TOP: 73.71 W. INV IN: 72.00 (18" RCP)
D13	P-8M CURB INLET TOP: 82.20 SE. INV IN: 76.00 (18" RCP)
D14	P-8M CURB INLET TOP: 82.42 NE. INV OUT: 78.00 (18" RCP) NW. INV OUT: 76.20 (18" RCP)
D15	MH TOP: 81.86 SW. INV IN: 75.50 (18" RCP) SE. INV IN: 75.50 (30" RCP) NW. INV OUT: 73.50 (36" RCP) NE. INV OUT: -9.27 (18" RCP)
D16	TYPE "D" INLET PER FDOT INDEX #232 TOP: 81.20 SE. INV OUT: 75.80 (18" RCP)
D17	MITERED END SECTION PER FDOT INDEX #272 TOP: 75.24 SE. INV IN: 72.00 (36" RCP)
D18	P-8M CURB INLET TOP: 81.72 NE. INV IN: 76.20 (18" RCP)
D19	P-8M CURB INLET TOP: 81.72 E. INV IN: 76.00 (24" RCP) NW. INV OUT: 76.00 (30" RCP) SW. INV OUT: 76.00 (18" RCP)
D20	TYPE "D" INLET PER FDOT INDEX #232 TOP: 81.28 SE. INV IN: 76.40 (18" RCP) NE. INV IN: 73.63 (24" RCP) W. INV OUT: 76.40 (24" RCP)
D21	TYPE "D" INLET PER FDOT INDEX #232 TOP: 80.01 NW. INV OUT: 77.00 (18" RCP)
D22	TYPE "D" INLET PER FDOT INDEX #232 TOP: 80.90 SE. INV IN: 75.05 (18" RCP) NW. INV IN: 75.05 (18" RCP) SW. INV OUT: 75.05 (24" RCP)

STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D23	TYPE "C" INLET PER FDOT INDEX #232 TOP: 80.03 NW. INV OUT: 78.00 (18" RCP)
D26	P-8M CURB INLET TOP: 81.21 NW. INV IN: 77.24 (18" RCP) SW. INV IN: -11.74 (18" RCP)
D27	P-8M CURB INLET TOP: 81.21 SE. INV OUT: 77.34 (18" RCP)

LEGEND

- PROPERTY LINE
- PROPOSED STORM PIPE
- PROPOSED STORM MANHOLE
- PROPOSED DITCH BOTTOM INLET
- PROPOSED CURB INLET
- XX.XX / XX.XX — PROPOSED ELEV. TOP OF CURB / PROPOSED ELEV. BOTT. OF CURB
- XX.XX — PROPOSED SPOT ELEVATION
- EXISTING STORM PIPE
- EXISTING STORM MANHOLE
- EXISTING STORM INLET
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL SHEET C7.0)
- PROPOSED CONCRETE SIDEWALK (SEE DETAIL SHEET C7.0)

VERTICAL DATUM:

VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK PID DJ8503, BEING A STAINLESS STEEL ROD CAN CAP STAMPED "NGS N 588 2003", HAVING A PUBLISHED ELEVATION OF 81.96 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988 – NAVD88)

Always call 811 two full business days before you dig to have underground utilities located and marked.

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NO.	REVISIONS	DATE	BY
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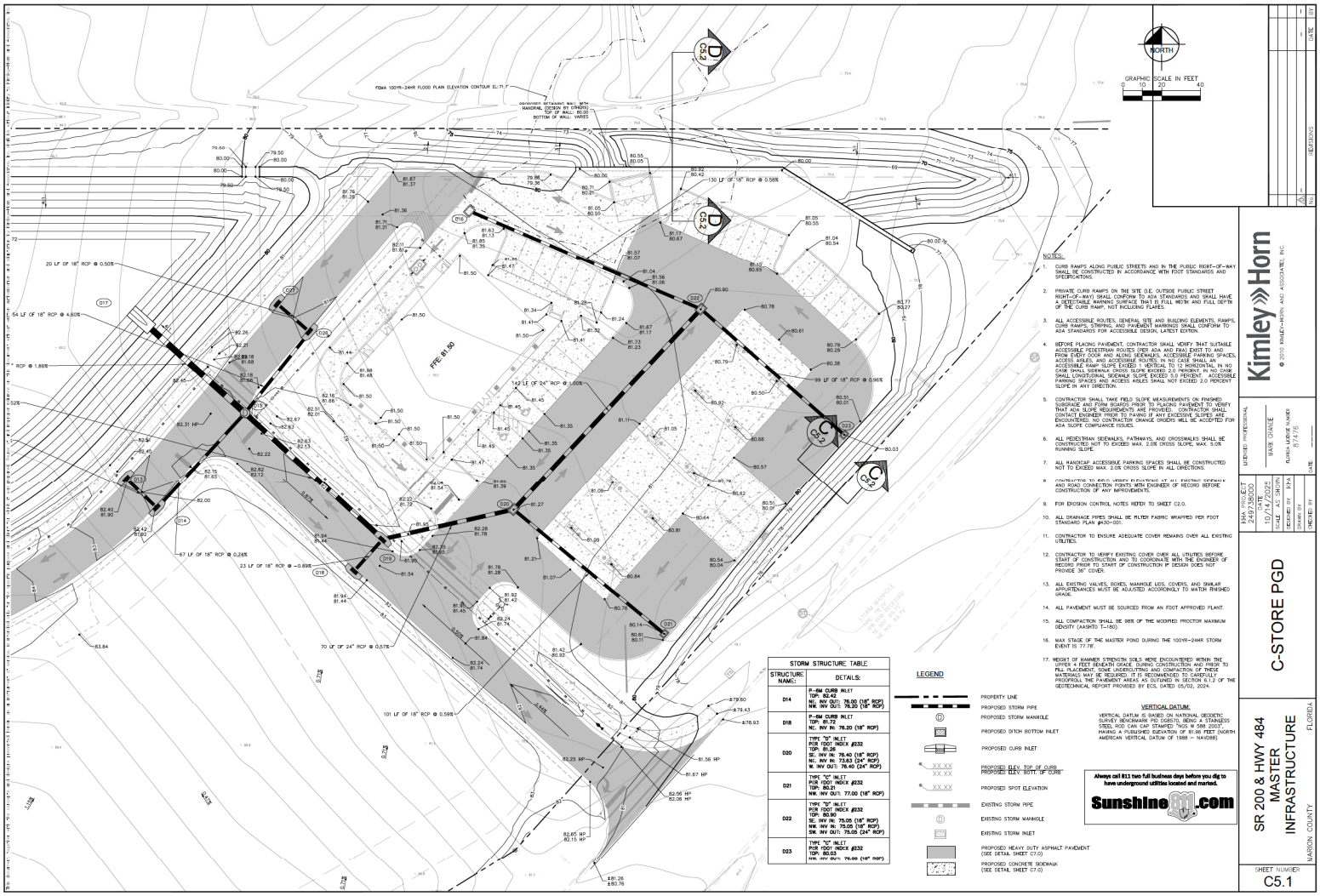
LICENSED PROFESSIONAL ENGINEER
MARK GRAHLE
FLORIDA LICENSE NUMBER 87476
DATE: ——

HHA PROJECT 249738000
DATE 10/14/2025
SCALE AS SHOWN
DESIGNED BY HHA
DRAWN BY
CHECKED BY

PAVING, GRADING, AND DRAINAGE PLAN

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C5.0



STORM STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
D14	P-8M CURB INLET TOP: 82.42 NE. INV OUT: 78.00 (18" RCP) NW. INV OUT: 78.30 (18" RCP)
D18	P-8M CURB INLET TOP: 81.72 NE.: INV IN: 76.30 (18" RCP)
D20	TYPE "S" INLET P/CR FDOT INDEX #232 TOP: 81.26 SE. INV IN: 76.40 (18" RCP) NE. INV IN: 73.83 (24" RCP) W. INV OUT: 76.40 (24" RCP)
D21	TYPE "S" INLET P/CR FDOT INDEX #232 TOP: 80.21 NW. INV OUT: 77.00 (18" RCP)
D22	TYPE "S" INLET P/CR FDOT INDEX #232 TOP: 80.90 SE. INV IN: 75.05 (18" RCP) NW. INV IN: 75.05 (18" RCP) SW. INV OUT: 75.05 (24" RCP)
D23	TYPE "C" INLET P/CR FDOT INDEX #232 TOP: 80.03 NW. INV OUT: 76.06 (18" RCP)

LEGEND

- PROPERTY LINE
- PROPOSED STORM PIPE
- PROPOSED STORM MANHOLE
- PROPOSED DITCH BOTTOM INLET
- PROPOSED CURB INLET
- PROPOSED ELEV. TOP OF CURB / PROPOSED ELEV. BOTT. OF CURB
- PROPOSED SPOT ELEVATION
- EXISTING STORM PIPE
- EXISTING STORM MANHOLE
- EXISTING STORM INLET
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT (SEE DETAIL SHEET C7.0)
- PROPOSED CONCRETE SIDEWALK (SEE DETAIL SHEET C7.0)

NOTES:

1. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATIONS.
2. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
3. ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
4. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE ROUTE HAVE A RUNNING SLOPE EXCEEDING 5.0 PERCENT. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
5. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
6. ALL PEDESTRIAN SIDEWALKS, PATHWAYS, AND CROSSWALKS SHALL BE CONSTRUCTED NOT TO EXCEED MAX. 2.0% CROSS SLOPE, MAX. 5.0% RUNNING SLOPE.
7. ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED NOT TO EXCEED MAX. 2.0% CROSS SLOPE IN ALL DIRECTIONS.
8. CONTRACTOR TO FIELD VERIFY ELEVATIONS AT ALL EXISTING SIDEWALK AND ROAD CONNECTION POINTS WITH ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY IMPROVEMENTS.
9. FOR EROSION CONTROL NOTES REFER TO SHEET C2.0.
10. ALL DRAINAGE PIPES SHALL BE FILTER FABRIC WRAPPED PER FDOT STANDARD PLAN #430-002.
11. CONTRACTOR TO ENSURE ADEQUATE COVER REMAINS OVER ALL EXISTING UTILITIES.
12. CONTRACTOR TO VERIFY EXISTING COVER OVER ALL UTILITIES BEFORE START OF CONSTRUCTION AND TO COORDINATE WITH THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION IF DESIGN DOES NOT PROVIDE 36" COVER.
13. ALL EXISTING VALVES, BOXES, MANHOLE LIDS, COVERS, AND SIMILAR APPURTENANCES MUST BE ADJUSTED ACCORDINGLY TO MATCH FINISHED GRADE.
14. ALL PAVEMENT MUST BE SOURCED FROM AN FDOT APPROVED PLANT.
15. ALL COMPACTION SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T-180).
16. MAX STAGE OF THE MASTER POND DURING THE 100YR-24HR STORM EVENT IS 77.78'.
17. WEIGHT OF HAMMER STRENGTH SOILS WERE ENCOUNTERED WITHIN THE UPPER 2 FEET BENEATH GRADE DURING CONSTRUCTION AND PRIOR TO PLACEMENT OF ANY ADDITIONAL FILL. IF UNSUITABLE SOFT OR LOOSE MATERIALS MAY BE REQUIRED. IT IS RECOMMENDED TO CAREFULLY PROOFROLL THE PAVEMENT AREAS AS OUTLINED IN SECTION 6.1.2 OF THE GEOTECHNICAL REPORT PROVIDED BY ECS, DATED 05/02, 2024.

VERTICAL DATUM:

VERTICAL DATUM IS BASED ON NATIONAL GEODETIC SURVEY BENCHMARK PID DG9570, BEING A STAINLESS STEEL ROD CAN CAP STAMPED "NGS W 588 2003", HAVING A PUBLISHED ELEVATION OF 81.96 FEET (NORTH AMERICAN VERTICAL DATUM OF 1988 – NAVD88)

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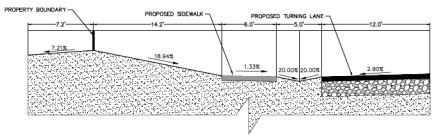
LICENSED PROFESSIONAL: MARK GRABLE, FLORIDA LICENSE NUMBER 87476, DATE

FHA PROJECT 24973800
DATE 10/7/2025
SCALE AS SHOWN
DESIGNED BY HA
DRAWN BY
CHECKED BY

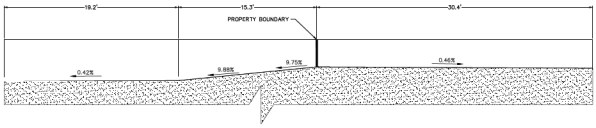
C-STORE PGD

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

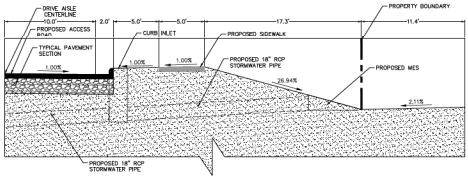
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C5.1



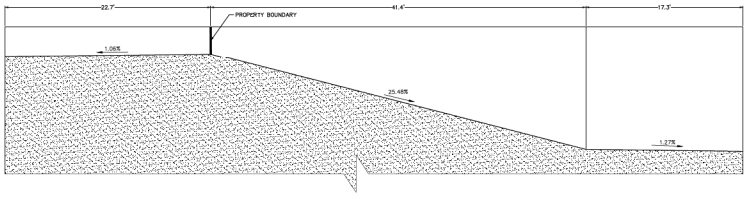
SECTION A-A
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SECTION B-B
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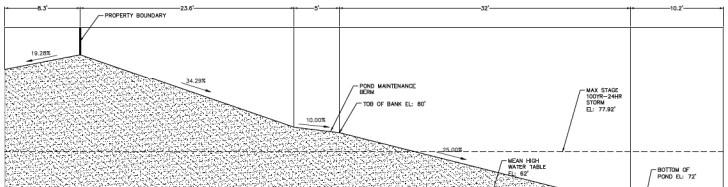


SECTION G-G
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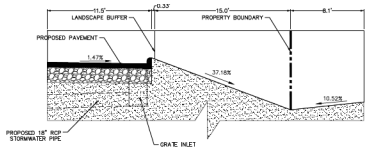


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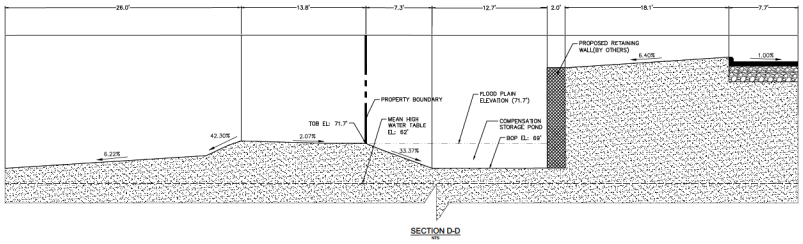
GRAPHIC SCALE IN FEET
0 2.5 5 10



SECTION E-E
NTS



SECTION C-C
NTS



SECTION D-D
NTS

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LICENSED PROFESSIONAL
MARK GRABLE
FLORIDA LICENSE NUMBER
87476
DATE

KHA PROJECT
249738000
DATE
10/14/2025
SCALE AS SHOWN
DESIGNED BY MHA
DRAWN BY
CHECKED BY

PGD SECTIONS

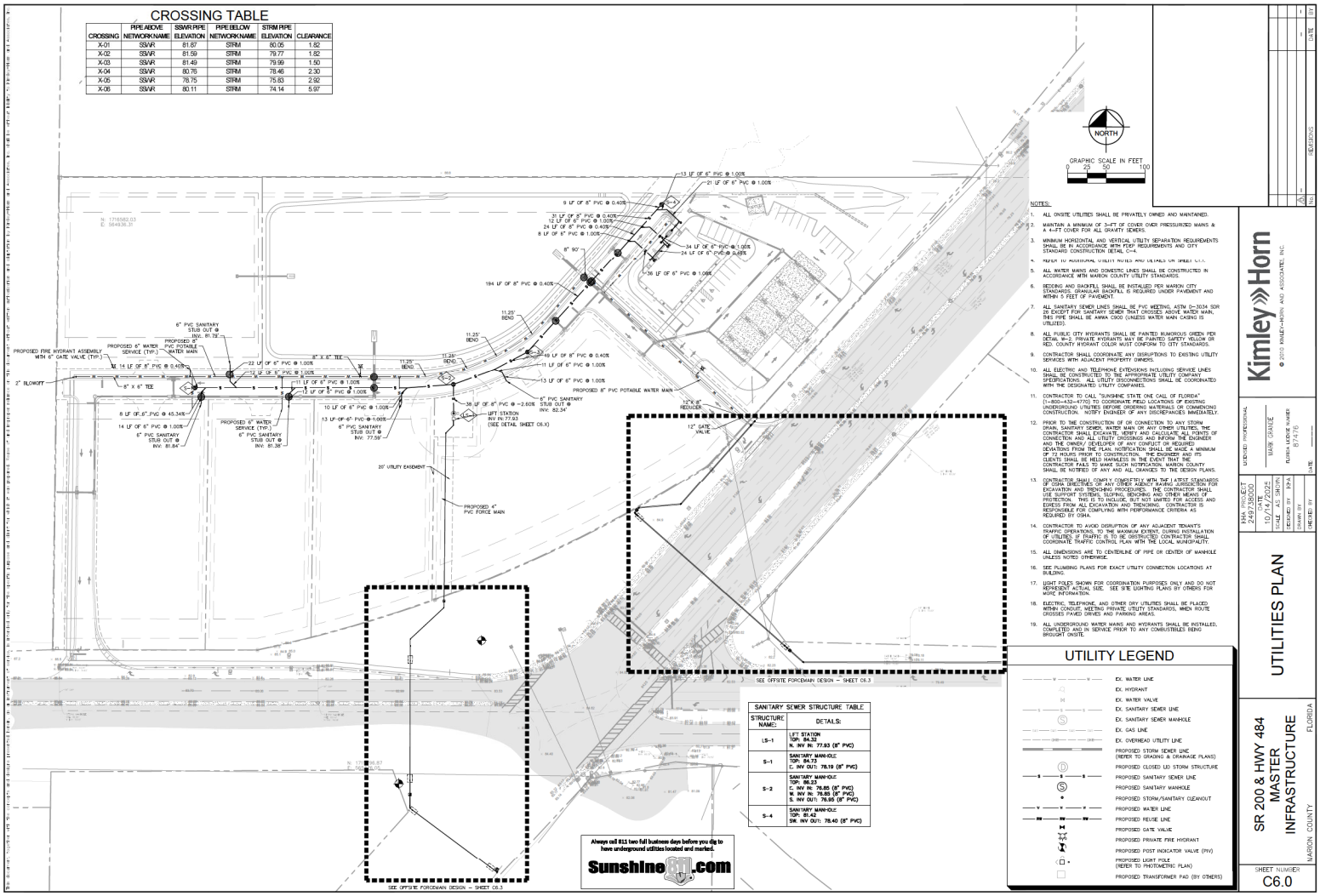
SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C5.2

The documents, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CROSSING TABLE

CROSSING	PIPE ABOVE NETWORK NAME	SSWR PIPE ELEVATION	PIPE BELOW NETWORK NAME	STRM PIPE ELEVATION	CLEARANCE
X-01	SSWR	81.87	STRM	80.05	1.82
X-02	SSWR	81.59	STRM	79.77	1.82
X-03	SSWR	81.49	STRM	79.99	1.50
X-04	SSWR	80.76	STRM	78.46	2.30
X-05	SSWR	78.75	STRM	75.83	2.92
X-06	SSWR	80.11	STRM	74.14	5.97



SANITARY SEWER STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:
LS-1	LIFT STATION TOP: 84.32 N. INV IN: 77.93 (8" PVC)
S-1	SANITARY MANHOLE TOP: 84.73 E. INV OUT: 78.19 (8" PVC)
S-2	SANITARY MANHOLE TOP: 86.23 E. INV IN: 78.85 (8" PVC) W. INV IN: 78.85 (8" PVC) S. INV OUT: 79.95 (8" PVC)
S-4	SANITARY MANHOLE TOP: 81.42 SW. INV OUT: 78.40 (8" PVC)

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NOTES:

1. ALL ONSITE UTILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED.
2. MAINTAIN A MINIMUM OF 3'-FT OF COVER OVER PRESSURIZED MAINS & A 4'-FT COVER FOR ALL GRAVITY SEWERS.
3. MINIMUM HORIZONTAL AND VERTICAL UTILITY SEPARATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH FDEP REQUIREMENTS AND CITY STANDARD CONSTRUCTION DETAIL C-4.
4. REFER TO ADDITIONAL UTILITY NOTES AND DETAILS ON SHEET C7.1.
5. ALL WATER MAINS AND DOMESTIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MARION COUNTY UTILITY STANDARDS.
6. BEDDING AND BACKFILL SHALL BE INSTALLED PER MARION CITY STANDARDS. GRANULAR BACKFILL IS REQUIRED UNDER PAVEMENT AND WITHIN 5 FEET OF PAVEMENT.
7. ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED).
8. ALL PUBLIC CITY HYDRANTS SHALL BE PAINTED HUMOROUS GREEN PER DETAIL W-2. PRIVATE HYDRANTS MAY BE PAINTED SAFETY YELLOW OR RED. COUNTY HYDRANT COLOR MUST CONFORM TO CITY STANDARDS.
9. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
10. ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
11. CONTRACTOR TO CALL "SUNSHINE STATE ONE CALL OF FLORIDA" (1-800-432-4770) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE PURCHASING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
12. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER OF THE EXISTING CONDITIONS ENCOUNTERED. ANY DISCREPANCIES FOUND OR NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. MARION COUNTY SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN PLANS.
13. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA, INCLUDING BUT NOT LIMITED TO, THE TRENCH SAFETY ACT FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
14. CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS, TO THE MAXIMUM EXTENT, DURING INSTALLATION OF UTILITIES (IF TRAFFIC IS TO BE OBSTRUCTED, CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL PLAN WITH THE LOCAL MUNICIPALITY.
15. ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
16. SEE PLUMBING PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
17. LIGHT POLES SHOWN FOR COORDINATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE SITE LIGHTING PLANS BY OTHERS FOR MORE INFORMATION.
18. ELECTRIC, TELEPHONE, AND OTHER DRY UTILITIES SHALL BE PLACED WITHIN CONDUIT, MEETING PRIVATE UTILITY STANDARDS, WHEN ROUTE CROSSES PAVED DRIVES AND PARKING AREAS.
19. ALL UNDERGROUND WATER MAINS AND HYDRANTS SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO ANY COMBUSTIBLES BEING BROUGHT ONSITE.

UTILITY LEGEND

- Ex. WATER LINE
- Ex. HYDRANT
- Ex. WATER VALVE
- Ex. SANITARY SEWER LINE
- Ex. SANITARY SEWER MANHOLE
- Ex. GAS LINE
- Ex. OVERHEAD UTILITY LINE
- PROPOSED STORM SEWER LINE (REFER TO GRADING & DRAINAGE PLANS)
- PROPOSED CLOSED LID STORM STRUCTURE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED REUSE LINE
- PROPOSED GATE VALVE
- PROPOSED PRIVATE FIRE HYDRANT
- PROPOSED POST INDICATOR VALVE (PIV)
- PROPOSED LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- PROPOSED TRANSFORMER PAD (BY OTHERS)

NO.	REVISIONS	DATE	BY
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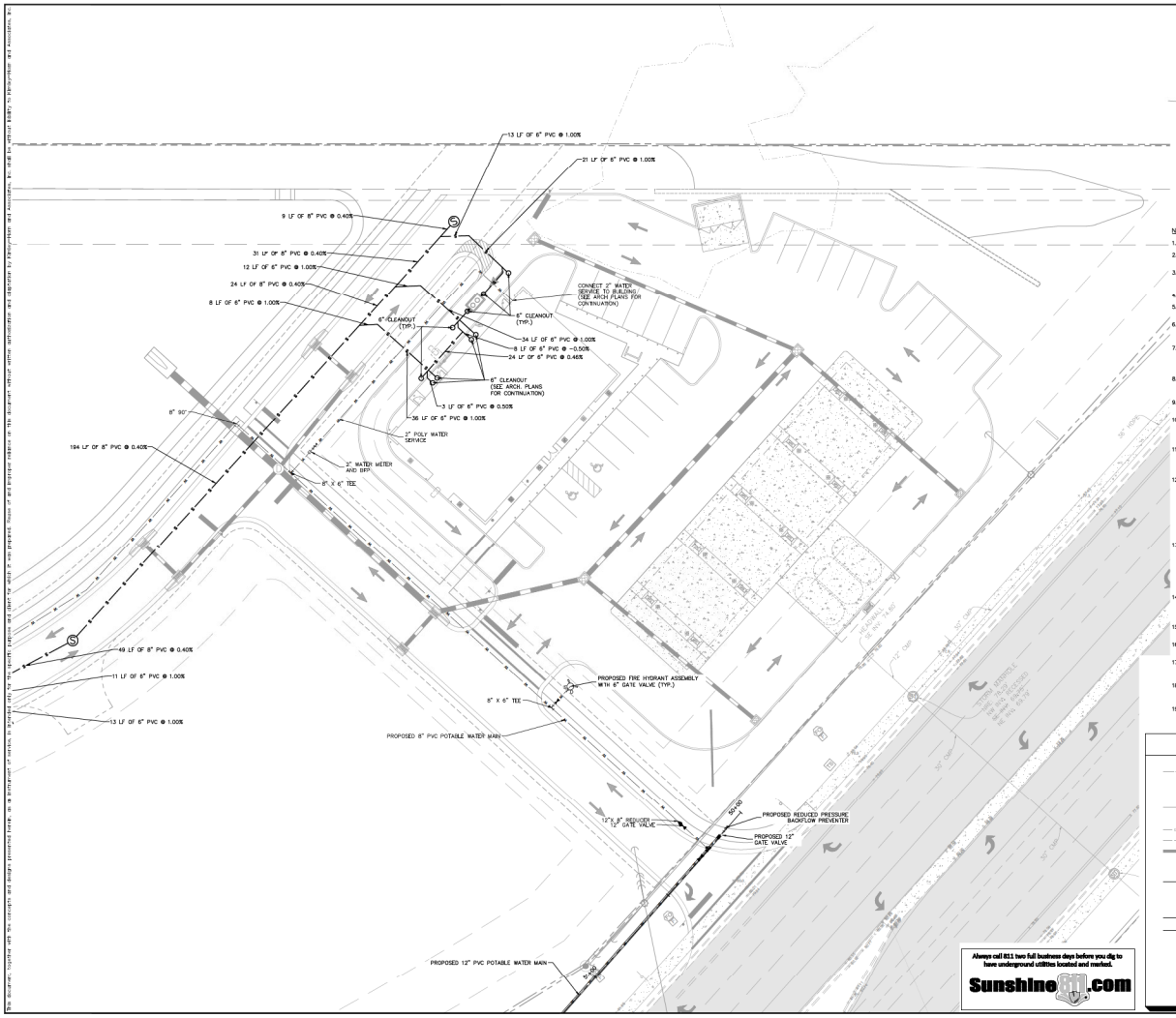
LICENSED PROFESSIONAL
MARK GRAHLE
FLORIDA LICENSE NUMBER
87476
DATE

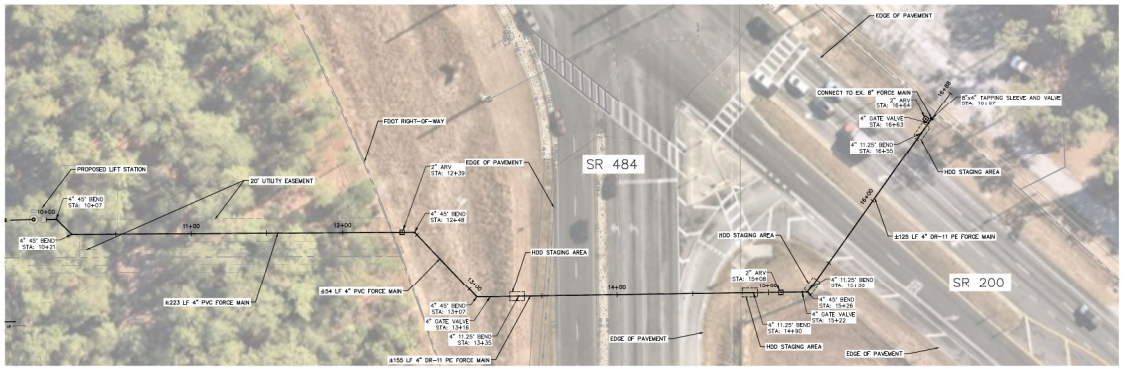
HHA PROJECT
249736000
DATE
10/14/2025
SCALE AS SHOWN
DESIGNED BY HHA
DRAWN BY
CHECKED BY

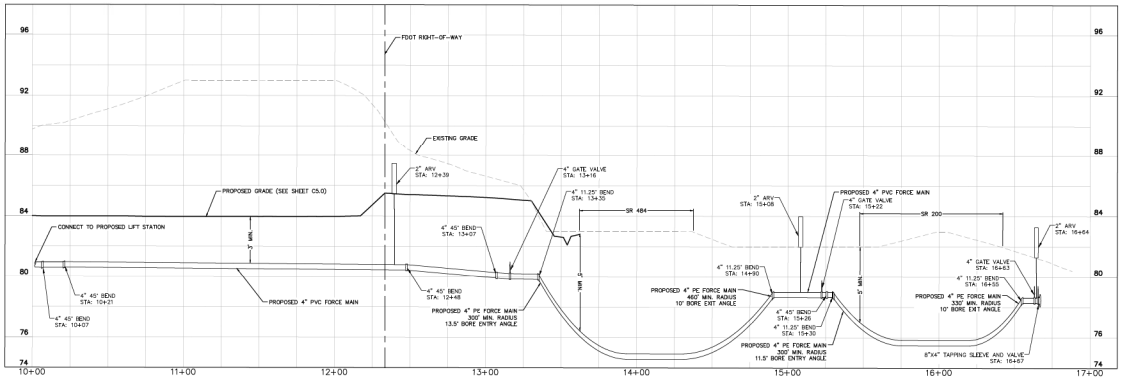
UTILITIES PLAN

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C6.0


NORTH
GRAPHIC SCALE IN FEET
0 10 20 40
13 LF OF 6" PVC @ 1.00%
21 LF OF 8" PVC @ 1.00%
9 LF OF 8" PVC @ 0.40%
31 LF OF 8" PVC @ 0.40%
12 LF OF 6" PVC @ 1.00%
24 LF OF 8" PVC @ 0.40%
8 LF OF 6" PVC @ 1.00%
CONNECT 2" WATER SERVICE TO BUILDING (SEE ARCH PLANS FOR CONTINUATION)
6" CLEANOUT (TYP.)
6" CLEANOUT (TYP.)
34 LF OF 6" PVC @ 1.00%
8 LF OF 6" PVC @ -0.50%
24 LF OF 6" PVC @ 0.46%
6" CLEANOUT (SEE ARCH. PLANS FOR CONTINUATION)
3 LF OF 6" PVC @ 0.50%
36 LF OF 6" PVC @ 1.00%
6" 90°
194 LF OF 8" PVC @ 0.40%
2" POLY WATER SERVICE
2" WATER METER AND BFP.
8" X 6" TEE
49 LF OF 8" PVC @ 0.40%
11 LF OF 6" PVC @ 1.00%
13 LF OF 6" PVC @ 1.00%
PROPOSED FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE (TYP.)
6" X 6" TEE
PROPOSED 8" PVC POTABLE WATER MAIN
12" X 8" REDUCER
12" GATE VALVE
PROPOSED REDUCED PRESSURE BACKFLOW PREVENTER
PROPOSED 12" GATE VALVE
PROPOSED 12" PVC POTABLE WATER MAIN
30' DMC
30' DMC
30' DMC







NOTES:

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7. ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-3034 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED).
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UTILITY LEGEND

- Ex. WATER LINE
- Ex. HYDRANT
- Ex. WATER VALVE
- Ex. SANITARY SEWER LINE
- Ex. SANITARY SEWER MANHOLE
- Ex. GAS LINE
- Ex. OVERHEAD UTILITY LINE
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- PROPOSED LIGHT POLE (REFER TO PHOTOMETRIC PLAN)
- PROPOSED TRANSFORMER PAD (BY OTHERS)

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

NO.	DATE	REVISIONS	BY
1	--	--	--

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LICENSED PROFESSIONAL
MARK GRADLE
FLORIDA LICENSE NUMBER
87476
DATE

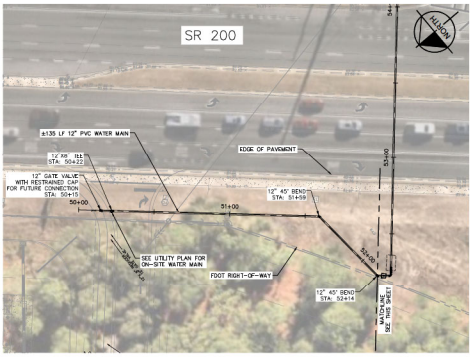
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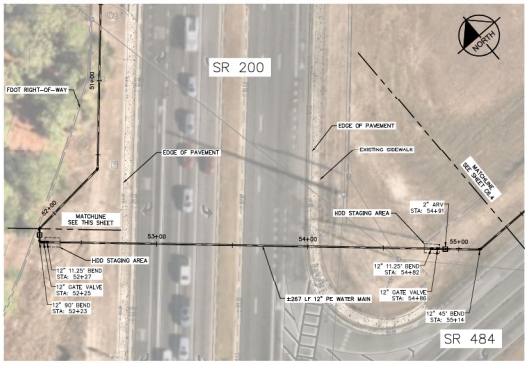
FORCE MAIN PLAN AND PROFILE

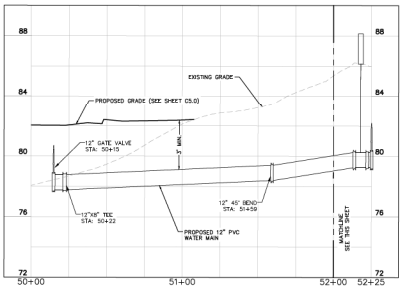
SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

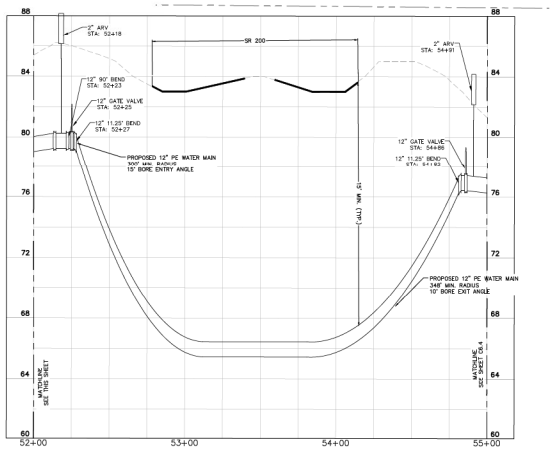
SHEET NUMBER
C6.2

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GRAPHIC SCALE IN FEET
0 15 30 60

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Sunshine811.com

NO.	DESCRIPTION	DATE	BY
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LICENSED PROFESSIONAL
MARK GRABLE
FLORIDA LICENSE NUMBER
87476
DATE

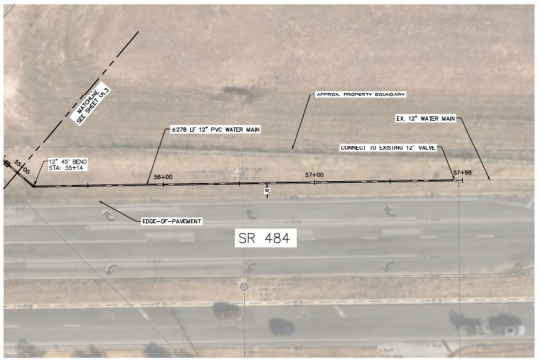
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249738000
DATE
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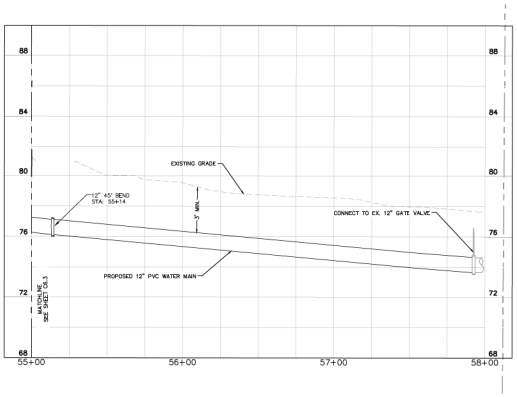
WATER MAIN PLAN AND PROFILE

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C6.3

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NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

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NO.	DATE	REVISIONS
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LICENSED PROFESSIONAL: MARK GRADLE
FLORIDA LICENSE NUMBER: 87476
DATE: —

HHA PROJECT: 249736000
DATE: 10/7/2025
SCALE: AS SHOWN
DESIGNED BY: HHA
DRAWN BY:
CHECKED BY:

WATER MAIN PLAN AND PROFILE

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C6.4

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Marion County FLORIDA UTILITIES

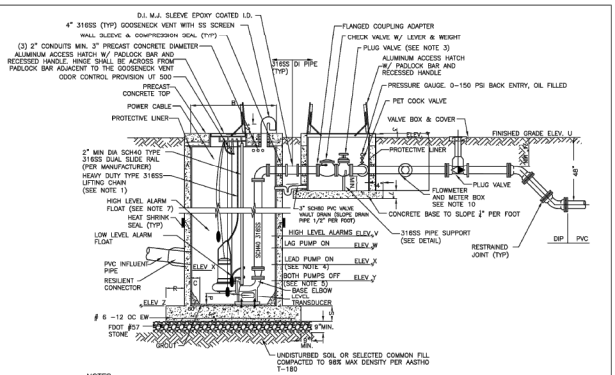
MCBOCC EFFECTIVE 04/13/2023

REVISION # 1

DUPLEX PUMP STATION SECTION W/ VALVE VAULT

UT 501

7.3.2



NOTES:
1. EACH PUMP SHALL BE FITTED WITH 6 FEET (6'-0") OF TYPE 316SS, 3/4" CHAIN ATTACHED TO THE LIFTING MECHANISM AND AIRCRAFT RATED 1/4" SS CABLE PROVIDED BETWEEN THE CABLE HOLDER AND THE CHAIN.
2. WALL SLEEVE AND COMPRESSION SEALS SHALL BE COMPATIBLE WITH LINER.
3. PLUG VALVES IN VALVE VAULTS SHALL BE GEAR OPERATED SQUARE NUT VALVES.
4. ELEVATION X – ELEVATION Z ≥ 5'.
5. PUMP OFF ELEVATION TO BE PER MANUFACTURER'S MINIMUM SUBMERGENCE AND LOW LEVEL FLOAT OFF POINT.
6. SEE FIGURE UT 503 FOR DESCRIPTIONS OF DIMENSION SYMBOLS.
7. INSTALLED TO PROVIDE DRY CONTACT FOR SCADA AND OPERATION OF INDEPENDENT FLOAT BACKUP SYSTEM HIGH WELL.
8. ALL FLANGES: PIPE, VALVES AND APPURTENANCES SHALL HAVE 316SS HARDWARE.
9. EMERGENCY PUMP OUT BAUER CONNECTION (MIN. 4") SHALL BE IN VALVE VAULT.
10. FLOWMETER AND METER BOX TO BE INSTALLED AS REQUIRED PER MCU, DETAIL SHOWING FLOWMETER AND METER BOX TO BE SUBMITTED TO AND APPROVED BY MCU.
11. ELECTRICAL CONDUIT SIZE WILL VARY WITH PUMP SIZE (MINIMUM 2").

Marion County FLORIDA UTILITIES

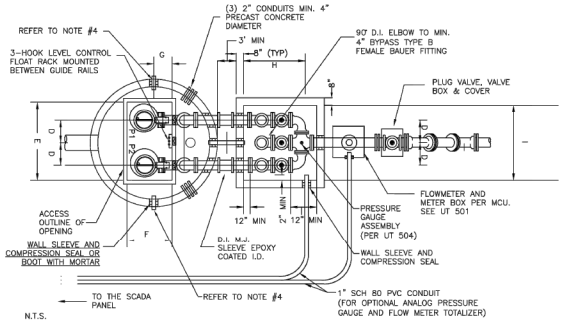
MCBOCC EFFECTIVE 04/13/2023

REVISION # 1

DUPLEX PUMP STATION PLAN W/ VALVE VAULT

UT 502

7.3.2



NOTES:
1. SEE DETAIL UT 503 FOR DESCRIPTIONS OF DIMENSION SYMBOLS.
2. MCU APPROVAL IS REQUIRED PRIOR TO PIPE LAYOUT CHANGES.
3. PRESSURE GAUGE ASSEMBLY SHALL BE INSTALLED ON A 4-WAY CROSS.
4. ODOR CONTROL PROVISIONS, SEE DETAIL UT 500. MCU APPROVAL IS REQUIRED PRIOR TO PRECAST INSTALLATION.
5. ELECTRICAL CONDUIT SIZE WILL VARY WITH PUMP SIZE. 2" SCH80 PVC MINIMUM.

NO.	REVISIONS	DATE	BY
1	–	–	–

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LICENSED PROFESSIONAL
MARK GRADLE
FLORIDA LICENSE NUMBER
87476
DATE

FHA PROJECT 249738000
DATE 10/7/2025
SCALE AS SHOWN
DESIGNED BY MPA
DRAWN BY
CHECKED BY

LIFT STATION DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C6.5

MANUFACTURER: FLYGT
MODEL: NP 3085 SH 3~ Adaptive 256
IMP: Hard Iron
DIA: 116 MM.
SPEED: 3,445 RPM
DISCHARGE SIZE: 3 IN

VOLTAGE: 230
PHASE: 3
H.P.: 4
MAX. SOLID SIZE (3 IN MIN): 3 IN
CURVE NUMBER: ISO 9906

SHUT OFF HEAD: 80.00 FEET TDH
HIGH HEAD CONDITION: 74 GPM AT 63.5 FEET TDH
MINIMUM HEAD CONDITION: 173 GPM AT 41.5 FEET TDH

DESCRIPTION	SYMBOL	DIMENSION	ELEVATION
THICKNESS OF WALL	A	8" (MIN)	—
DIAMETER OF WET WELL	B	6' (MIN)	—
WIDTH OF BOTTOM FILLET	C	SEE NOTE 1	—
C/L OF WET WELL TO C/L OF PIPES	D	SEE NOTE 1	—
LENGTH OF PUMP ACCESS OPENING	E	SEE NOTE 1	—
WIDTH OF PUMP ACCESS OPENING	F	SEE NOTE 1	—
CENTER OF WET WELL TO EDGE OF HATCH	G	SEE NOTE 1	—
VALVE BOX HATCH OPENING	H	30''	—
VALVE BOX HATCH OPENING	I	30''	—
LIP WIDTH OF WETWELL BASE	R	18" (MIN)	—
THICKNESS OF WETWELL BASE	S	12" (MIN)	—
TOP OF WET WELL	T	—	87.00'
FINISHED GRADE	U	—	87.00'
HIGH LEVEL ALARMS	V	—	77.43'
LAG PUMP ON	W	—	76.93'
LEAD PUMP ON / INFLUENT PIPE INVERT	X	—	75.93' / 77.93'
PUMPS OFF (TOP OF PUMP VOLUTE)/LOW LEVEL ALARM	Y	—	74.68'
BOTTOM OF PUMP TO FLOOR OF WET WELL	P	2' 15/16''	—
STEP HEIGHT (IF REQUIRED)	Q		—
FLOOR OF WET WELL	Z	—	72.68'
THICKNESS OF WET WELL LID		8" (MIN)	—

NOTES:
1. PER PUMP MANUFACTURER'S REQUIREMENTS.
2. DIMENSION P AND ELEVATIONS Y AND Z MUST MEET MANUFACTURER'S REQUIREMENTS.
3. ELEVATION X – ELEVATION Z ≥ 5'
4. TOP ELEVATION OF WET WELL SHALL BE A MINIMUM OF 1' ABOVE THE 100 YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD.
5. SYMBOLS SHOWN IN TABLE ARE USED IN DETAILS UT 501, UT 502, UT 515, UT 516, UT 520, AND UT 521. SYMBOLS "H" AND "I" ARE ONLY USED FOR UT 501 AND UT 502.
6. COPY OF TABLE SHALL BE FILLED OUT PER DESIGN ENGINEER AND PROVIDED TO MCU IN THE OPERATIONS AND MAINTENANCE MANUAL.

Marion County FLORIDA UTILITIES

MCBCC EFFECTIVE 04/13/2023
REVISION # 1

PUMP STATION DESIGN SPECIFICATIONS

7.3.2
UT 503

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NO.	REVISIONS	DATE	BY
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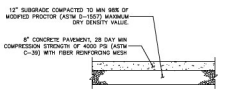
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FLORIDA LICENSE NUMBER: 87476
DATE: ____

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DATE: 10/14/2025
SCALE: AS SHOWN
DESIGNED BY: MPA
DRAWN BY:
CHECKED BY:

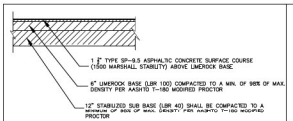
LIFT STATION DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
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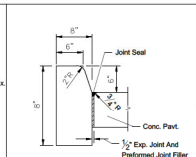


CONCRETE PAVEMENT DETAIL
N.T.S.

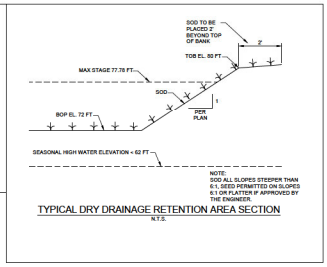


TYPICAL ASPHALT PAVEMENT SECTION
NTS

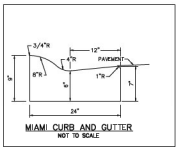
NOTE:
THE PAVEMENT DETAILS ARE BASED UPON INFORMATION RECEIVED FROM THE REPORT "GEOTECHNICAL ENGINEERING REPORT" BY ECS FLORIDA, LLC, DATED MAY 2, 2024. REFER TO THIS REPORT FOR FURTHER INFORMATION.



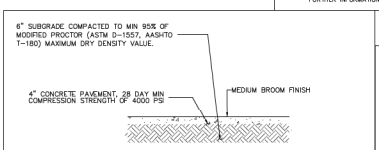
TYPE D



TYPICAL DRY DRAINAGE RETENTION AREA SECTION
N.T.S.

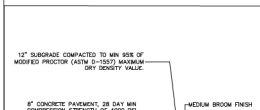


MIAMI CURB AND GUTTER
NOT TO SCALE



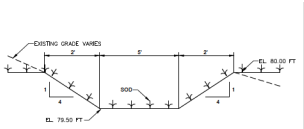
CONCRETE SIDEWALK DETAIL
NTS

SIDEWALK NOTES:
1. ALL CONCRETE SIDEWALKS SHALL BE CONSTRUCTED PER FDOT DESIGN INDEX #310.
2. SIDEWALK SHALL USE 3,000 PSI CLASS 1 CONCRETE AND SHALL BE 4" THICK.
3. SIDEWALK SHALL EXTEND ACROSS THE DRIVEWAY.
4. SIDEWALK WITHIN THE DRIVEWAY SHALL BE 6" THICK.
5. SIDEWALK ADJACENT TO THE DRIVEWAY SHALL BE 6" THICK.

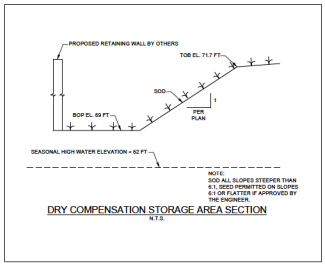


HEAVY DUTY CONCRETE PAVEMENT DETAIL
NTS

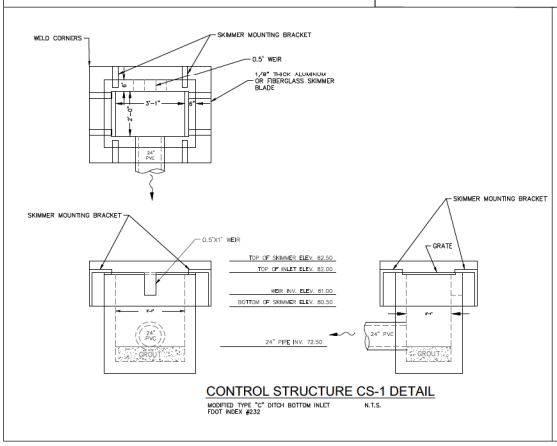
NOTE:
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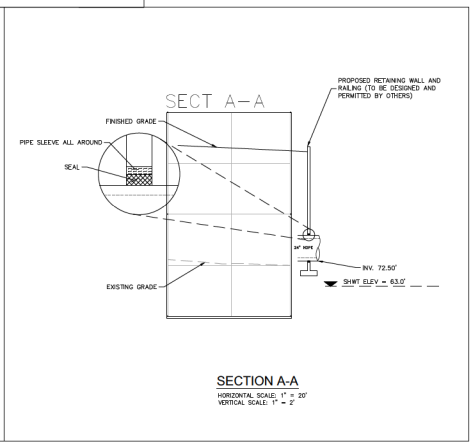
EMERGENCY OVERFLOW WEIR DETAIL
N.T.S.



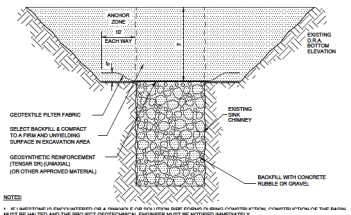
DRY COMPENSATION STORAGE AREA SECTION
N.T.S.



CONTROL STRUCTURE CS-1 DETAIL
MODIFIED TYPE "C" DITCH BOTTOM INLET
FDOT INDEX #232
N.T.S.



SECTION A-A
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



NOTES:
1. IF LIMESTONE IS ENCOUNTERED OR A SINKHOLE FORMS DURING SITE EXCAVATION, ALL CONSTRUCTION ACTIVITIES IN THE BASIN MUST BE HALTED AND THE PROJECT GEOTECHNICAL ENGINEER MUST BE NOTIFIED IMMEDIATELY.
2. THE SINKHOLE OR SOLUTION PIPE MUST BE REPAIRED WITHIN 10 DAYS OF THE DISCOVERY USING A DISTRICT APPROVED METHOD.
3. THE STORMWATER SYSTEM MUST BE INSPECTED MONTHLY FOR THE OCCURRENCE OF SINKHOLES OR SOLUTION PIPES.

TYPICAL SINK CHIMNEY REPAIR DETAIL
N.T.S.

NO.	DATE	BY
1	–	–
A	–	–

REVISIONS

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LICENSED PROFESSIONAL
MARK GRAHLE
FLORIDA LICENSE NUMBER
87476
DATE: –

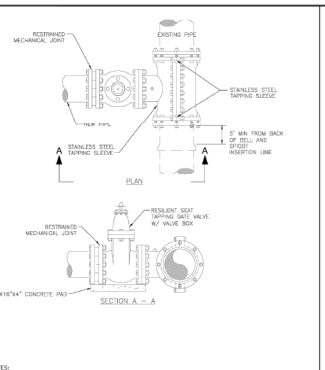
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249739000
DATE
10/7/2025
SCALE AS SHOWN
DESIGNED BY MH
DRAWN BY
CHECKED BY

GENERAL DETAILS

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

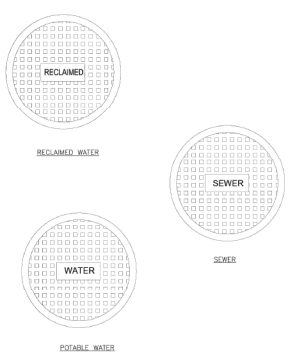
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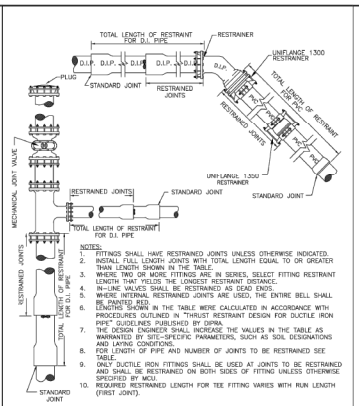


NOTES:
1. PRIOR TO BEGINNING THE TAPPING OPERATION, THE SLEEVE AND VALVE SHALL BE PRESSURE TESTED AT 150 PSI FOR A MINIMUM OF 30 MINUTES TO ENSURE THAT NO LEAKAGE WILL OCCUR.
2. CONTRACTOR SHALL PROVIDE MCU PROOF OF PRESSURE TEST IN THE FORM OF A TAPPING TEST LOG WITH THE CONTRACTOR'S SIGNATURE.
3. CONTRACTOR MUST CONFIRM RESTRAINTS IN ALL DIRECTIONS AND INSTALL ADDITIONAL RESTRAINTS AS NECESSARY TO COMPLY WITH LAND DEVELOPMENT CODE.
4. ALL TAPS MUST BE LOCATED A MINIMUM OF 5' AWAY FROM ANY BELL AND/OR FITTING.
5. STAINLESS STEEL TAPPING SLEEVE SHALL BE MADE OF 316SS.

Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	TAPPING SLEEVE AND GATE VALVE ASSEMBLY	7.3.2 UT 108
	REVISION # 1		



Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	TYPICAL VALVE BOX COVER	7.3.2 UT 110
	REVISION # NA		



NOTES:
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
4. IN-LINE VALVES SHALL BE RESTRAINED AS DEAD ENDS.
5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA.
7. THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
8. FOR LENGTH OF PIPE AND NUMBER OF JOINTS TO BE RESTRAINED SEE TABLE.
9. ONLY DUCTILE IRON FITTINGS SHALL BE USED AT JOINTS TO BE RESTRAINED AND SHALL BE RESTRAINED ON BOTH SIDES OF FITTING UNLESS OTHERWISE SPECIFIED BY MCU.
10. REQUIRED RESTRAINED LENGTH FOR TEE FITTING VARIES WITH RUN LENGTH (FIRST JOINT).

Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	RESTRAINED PIPE TABLE	7.3.2 UT 116A
	REVISION # NA		

MINIMUM RESTRAINED LENGTH (FT) — EACH SIDE OF FITTING AND VALVE
FOR DIP, PE ENCASED DIP OR BARE PVC
H=HORIZONTAL
VU=VERTICAL–UP
VD=VERTICAL–DOWN

WATER MAIN: PRESSURE: 150 PSI. DEPTH OF COVER: 3.0 ft.

REQUIRED RESTRAINED LENGTH ON WATER MAIN									
Bend Type		Pipe Length (N)							
		4"	6"	8"	10"	12"	16"	20"	24"
Angle	Orientation								
11-1/4°	H	2	3	4	5	5	6	8	9
	VU	3	3	4	5	5	6	8	9
	VD	5	5	11	13	16	20	24	28
	H	4	6	7	9	10	12	15	17
22-1/2°	VU	4	6	7	9	10	12	15	17
	VD	12	17	22	27	31	40	48	56
	H	8	11	15	17	20	25	30	35
45°	VU	8	11	15	17	20	25	30	35
	VD	23	30	40	50	60	80	99	113
	H	19	27	35	41	48	61	72	83
90°	VU	19	27	35	41	48	61	72	83
	VD	61	85	111	132	155	198	236	271
DEAD END VALVE		61	85	111	132	155	198	236	271

REQUIRED RESTRAINED LENGTH ON TEE BRANCH								
TEE FITTING		Pipe Length (N)						
		Diameter of Run						
		4"	6"	8"	10"	12"	16"	20"	24"
Diameter of Branch	4"	39	28	18	8	0	0	0	0
	6"		43	34	24	15	0	0	0
	8"			69	62	53	34	16	0
	10"				110	105	85	64	44
	12"					133	124	105	105
	16"					170	168	161	
	20"						210	209	
	24"							264	

REQUIRED RESTRAINED LENGTH ON LARGER PIPE							
REDUCER FITTING		Diameter of Large Pipe					
		6"	8"	10"	12"	16"	20"	24"
Diameter of Small	4"	44	60	108	135	183	228	268
	6"		47	81	113	167	214	257
	8"			42	83	145	195	242
	10"				46	118	175	228
	12"					84	149	205
	16"						84	151
	20"							83

Minimum Design Criteria
Bedding Type: 4
Safety Factor: 1.5
Soil: Sand–Silt
Run Length (First Joint): 10 ft.

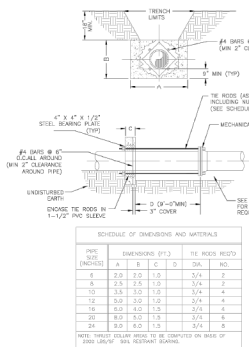
FORCE MAIN:
PRESSURE: 100 PSI.
DEPTH OF COVER: 4.0 ft.

REQUIRED RESTRAINED LENGTH ON FORCE MAIN									
Bend Type		Pipe Length (N)							
		4"	6"	8"	10"	12"	16"	20"	24"
Angle	Orientation								
11-1/4°	H	2	2	3	4	4	5	6	7
	VU	2	2	3	4	4	5	6	7
	VD	5	7	9	11	12	16	19	22
	H	3	3	5	6	7	8	10	13
22-1/2°	VU	3	3	5	6	7	8	10	13
	VD	10	13	17	21	24	31	38	44
	H	6	9	11	14	16	20	24	28
45°	VU	6	9	11	14	16	20	24	28
	VD	20	27	35	43	50	64	78	91
	H	15	21	27	32	38	48	57	66
90°	VU	15	21	27	32	38	48	57	66
	VD	48	65	85	102	121	155	187	215
DEAD END VALVE		48	65	85	102	121	155	187	215

REQUIRED RESTRAINED LENGTH ON TEE BRANCH								
TEE FITTING		Pipe Length (N)						
		Diameter of Run						
		4"	6"	8"	10"	12"	16"	20"	24"
Diameter of Branch	4"	23	14	4	0	0	0	0	0
	6"		43	34	24	15	0	0	0
	8"			63	57	52	39	28	12
	10"				80	75	66	55	44
	12"					98	90	81	72
	16"						130	126	110
	20"							164	159
	24"								196

REQUIRED RESTRAINED LENGTH ON LARGER PIPE							
REDUCER FITTING		Diameter of Large Pipe					
		6"	8"	10"	12"	16"	20"	24"
Diameter of Small	4"	34	51	83	105	143	178	212
	6"		36	63	86	125	158	204
	8"			35	64	113	155	192
	10"				36	92	138	179
	12"					88	118	162
	16"						66	120
	20"							68

Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	RESTRAINED PIPE TABLE	7.3.2 UT 116B
	REVISION # NA		



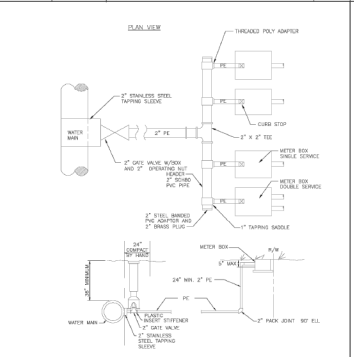
SCHEDULE OF DIMENSIONS AND MATERIALS

PIPE SIZE (INCHES)	DIMENSIONS (FT.)				TIE RODS REQ'D	
	A	B	C	D	DIA.	NO.
6	2.0	2.0	1.0		3/4	2
8	2.5	2.5	1.0		3/4	2
10	3.5	3.0	1.0		3/4	4
12	5.0	3.0	1.0		3/4	4
16	5.0	4.0	1.5		3/4	4
20	8.0	5.0	1.5		3/4	6
24	9.0	6.0	1.5		3/4	8

NOTE: THRUST COLLAR AREAS TO BE COMPUTED ON BASIS OF 3000 LBS/SF. SAFE RESTRAINT BEARING.

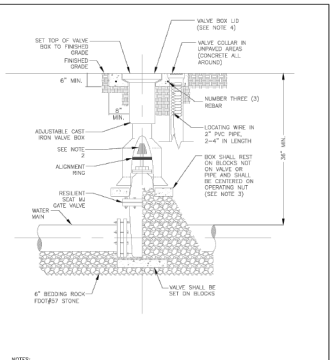
NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE LAND DEVELOPMENT CODE.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: 150 PSI.

Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	THRUST COLLAR WATER MAINS	7.3.2 UT 201
	REVISION # NA		



NOTES:
1. MAXIMUM OF 3 3/8" METERS
2. METER BOXES SHALL NOT BE LOCATED WITHIN DRIVING SURFACE. METER BOXES MUST BE LOCATED IN SIDEWALK OR GRASS AREAS OR TRIMMED PROPERLY WITH A LUTIST TRIMMER.
3. NO MALE ADAPTERS ALLOWED AT VALVE, SHALL BE A BRASS NIPPLE WITH 2" SCH80 FEMALE STEEL BANDED ADAPTER.
4. ALL TAPS MUST BE LOCATED A MINIMUM OF 24" AWAY FROM ANY BELL AND/OR FITTING.

Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	METER BANK 2" SUPPLY	7.3.2 UT 202
	REVISION # 1		



NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION (SEE UT111).
2. THE ACTUATING NUT FOR VALVES DEEPER THAN SIX (6) FEET SHALL BE EXTENDED TO COME UP TO 3 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVE BOX SHALL BE SET ON FIVE (5) SOLID CONCRETE BLOCKS.
4. VALVE BOX LID TO BE LETTERED WITH THE WORD "WATER" OR "RECLAIMED".
5. INSTALL BRASS ID TAG IN CONCRETE.

Marion County FLORIDA	MCBCC EFFECTIVE 04/13/2023	GATE VALVE WATER AND RECLAIMED MAINS	7.3.2 UT 204
	REVISION # 2		

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NO.	DATE	BY
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LICENSED PROFESSIONAL
MARK GRABLE
FLORIDA LICENSE NUMBER 87476
DATE: ——

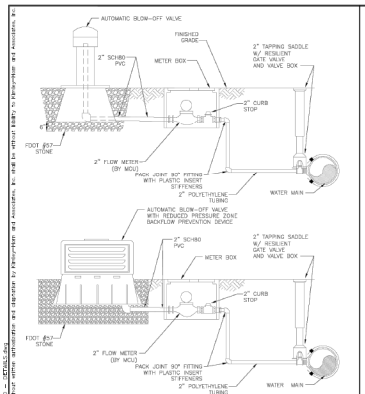
FDOT PROJECT 24973600
DATE 10/14/2025
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DESIGNED BY HPA
DRAWN BY
CHECKED BY

MARION COUNTY DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

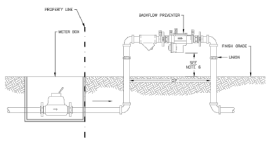
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Plotted by: Sharma, Hitesh Date: Jan 20, 2026 - 11:49:45am Login: hsharma
K:\ldd_out\30278000 - SR 200 & Hwy 484 master infrastructure\CAD\CIVIL\Plots\C7.1 - DETAILS.dwg
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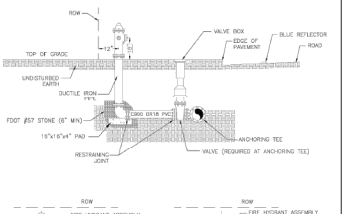
NOTES:
1. BLOW-OFF VALVE SHALL BE HYDRAGUARD OF MCU APPROVED EQUIVALENT.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	REVISION # 2	AUTOMATIC BLOW OFF VALVE WATER MAIN	7.3.2 UT 207



NOTES:
1. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AND MAINTAINED AS PER MARION COUNTY CROSS CONNECTION CONTROL ORDINANCE AND/OR PLUMBING CODE.
2. BACKFLOW PREVENTION ASSEMBLY TO BE INSTALLED LEVEL AND PLUMB.
3. MINIMUM CLEARANCE OF 24" TO BE MAINTAINED AROUND ASSEMBLY FOR TESTING.
4. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE TESTED FOLLOWING INSTALLATION AND INITIATION OF WATER SERVICE. THE BACKFLOW PREVENTION ASSEMBLY TESTER MUST POSSESS A CURRENT AMERICAN WATER WORKS ASSOCIATION (AWWA) AND/OR AMERICAN BACKFLOW PREVENTION ASSOCIATION (ABPA) BACKFLOW TESTER CERTIFICATE. A COPY OF THE BACKFLOW TESTER CERTIFICATE, A COPY OF THE BACKFLOW PREVENTION ASSEMBLY TEST REPORT MUST BE SUBMITTED TO THE BACKFLOW & CCC COORDINATOR AT MCU WITHIN 14 DAYS FROM THE DATE OF INSTALLATION.
5. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE TESTED FOLLOWING INSTALLATION AND INITIATION OF WATER SERVICE. THE BACKFLOW PREVENTION ASSEMBLY TESTER MUST POSSESS A CURRENT AMERICAN WATER WORKS ASSOCIATION (AWWA) AND/OR AMERICAN BACKFLOW PREVENTION ASSOCIATION (ABPA) BACKFLOW TESTER CERTIFICATE. A COPY OF THE BACKFLOW TESTER CERTIFICATE, A COPY OF THE BACKFLOW PREVENTION ASSEMBLY TEST REPORT MUST BE SUBMITTED TO THE BACKFLOW & CCC COORDINATOR AT MCU WITHIN 14 DAYS FROM THE DATE OF INSTALLATION.
6. MIN. 12" MAX. 18" ABOVE FINISHED GRADE AND FLOODPLAIN.
7. METERS LARGER THAN 2" WILL REQUIRE DISCUSSION WITH MCU.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	REVISION # 1	2" AND SMALLER REDUCED PRESSURE AND/OR DOUBLE CHECK BACKFLOW ASSEMBLY	7.3.2 UT 209

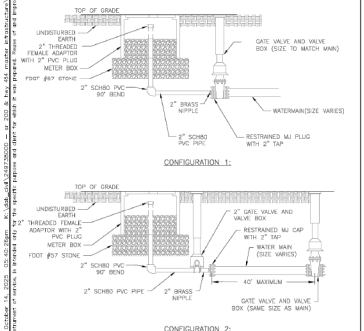


STANDARD CONFIGURATION

ALTERNATE CONFIGURATION

NOTES:
1. BONNET COLORS SHALL BE IN ACCORDANCE WITH SEC. 6.19.2-G.
2. HYDRANT SHALL BE 1' INSIDE OF RIGHT-OF-WAY, WHEN POSSIBLE.
3. BLUE REFLECTOR SHALL BE PLACED IN THE MIDDLE OF THE ADJACENT TRAVEL LANE.
4. RADIUS OF CLEAR SPACE AROUND THE FIRE HYDRANT SHALL BE IN ACCORDANCE WITH NFPA STANDARDS (NFPA 1 SEC. 18.5.7, AS AMENDED).

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	REVISION # 2	FIRE HYDRANT ASSEMBLY	7.3.2 UT 210

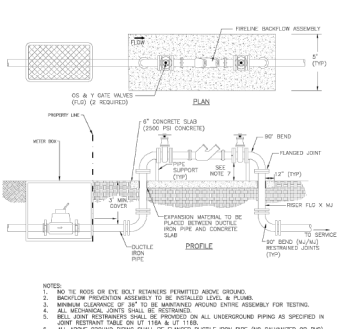


CONFIGURATION 1:

CONFIGURATION 2:

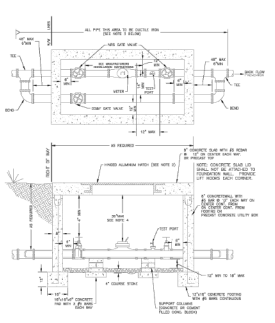
NOTE:
1. BLOW-OFF VALVES TO BE PROVIDED ON ALL DEAD END MAINS OR AS DETERMINED BY MCU.
2. BLOW-OFF VALVES ARE NOT TO BE LOCATED IN DITCHES.
3. CONNECTIONS SHALL BE ASSEMBLED USING COMPOUNDS APPROVED FOR POTABLE WATER SYSTEMS.
4. SHALL BE SIZED TO ACHIEVE ADEQUATE FLUSHING VELOCITY.
5. NO MALE ADAPTERS ALLOWED AT VALVE; SHALL BE A BRASS NIPPLE WITH 2" SCH80 FEMALE STEEL BANDED ADAPTER.

Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	REVISION # NA	MANUAL BLOW OFF VALVE WATER MAIN	7.3.2 UT 212



NOTES:
1. NO TIE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
2. BACKFLOW PREVENTION ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
3. MINIMUM CLEARANCE OF 36" TO BE MAINTAINED AROUND ENTIRE ASSEMBLY FOR TESTING.
4. ALL MECHANICAL JOINTS SHALL BE RESTRAINED.
5. ALL PIPE SHALL BE RESTRAINED BY MEANS OF MEGALUG JOINT RESTRAINT TABLE ON UT 1164 & UT 1165.
6. ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE (NO GALVANIZED OR PVC).
7. BACKFLOW PREVENTION ASSEMBLY MUST BE LISTED WITH THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA.
8. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE TESTED FOLLOWING INSTALLATION AND INITIATION OF WATER SERVICE. THE BACKFLOW PREVENTION ASSEMBLY TESTER MUST POSSESS A CURRENT AMERICAN WATER WORKS ASSOCIATION (AWWA) AND/OR AMERICAN BACKFLOW PREVENTION ASSOCIATION (ABPA) BACKFLOW TESTER CERTIFICATE. A COPY OF THE BACKFLOW TESTER CERTIFICATE, A COPY OF THE BACKFLOW PREVENTION ASSEMBLY TEST REPORT MUST BE SUBMITTED TO THE BACKFLOW & CCC COORDINATOR AT MCU WITHIN 14 DAYS FROM THE DATE OF INSTALLATION.
9. MIN. 12" MAX. 18" ABOVE FINISHED GRADE AND FLOODPLAIN.

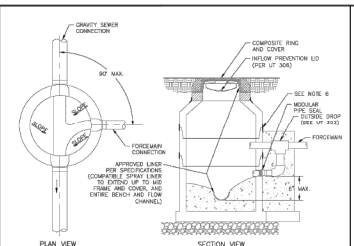
Marion County FLORIDA UTILITIES	MCBCC EFFECTIVE 04/13/2023	REVISION # NA	DOUBLE CHECK OR REDUCED PRESSURE BACKFLOW ASSEMBLY (SINGLE SERVICE: 3" – 10")	7.3.2 UT 213


ALL PIPE SIZE AREA TO BE DUCTILE IRON (SEE NOTE 1 BELOW)
GATE VALVE
METER
BOND
BOND
BOND
BOND
TEE
BOND
BOND
BOND
BOND

NOTES

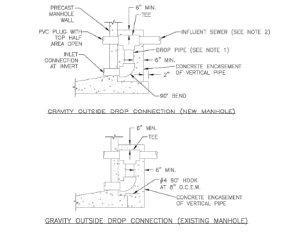
1. IF IT IS SCHEDULED TO DISCONNECT METERS, CONTROL RESISTANCE SHALL BE PLACED AFTER THE 90 DEGREE VERTICAL BEND // BEFORE UPSTREAM BEFORE AND AFTER DOWNSTREAM BEFORE TEE // BEFORE BACKFLOW PREVENTION ASSEMBLY AS SHOWN, NO OTHER LOCATIONS SHALL BE ACCEPTED.
2. BACKFLOW PREVENTION ASSEMBLY TO BE INSTALLED USING A PLUMB.
3. ALL BY-PASS TO BE SIZED NO LESS THAN 1/2 WATER SIZE, 3" MIN.
4. CHECK ASSEMBLY TO BE TESTED SAFETY BLUE.
5. SHUT OFF VALVE CHAIN TO BE REMOVED FROM METER PIPE.
6. MECHANICAL JOINTS SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
7. BELL JOINT RESTRAINERS SHALL BE PROVIDED ON ALL UNDERGROUND PIPING.
8. ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE CEMENT LINED (DI) (MECHANICAL OR PVC)
9. BFP MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC APPROVED).
10. ABOVE GROUND INLET AND DISCHARGE PIPING SHALL BE SIZED IDENTICAL TO METER INLET SIZE.
11. ALL ASTERISK EQUIPMENT SHALL BE FULLY CHARGING WITH THE CURRENT AND AUTOMATIC WATER BOILING (HAB) SYSTEM.
12. 8" WATER IS PROVIDING FIRE PROTECTION AS WELL AS DOMESTIC WATER USE BY FIRES MUST BE A MIN. 6" DIA ALL PIPE FILE 8 PC.
13. 8" WATER IS FOR DOMESTIC USE ONLY (I.E. THERE IS A SEPARATE STAND-ALONE FIRE CONNECTION) A COMPOUND METER SHALL BE USED.
14. 8" WATER IS USED FOR BOTH DOMESTIC AND FIRE PROTECTION USE, A FIRE DEPARTMENT WATER NEED LOW-FLOW TURBINE BYPASS METER SHALL BE USED.
15. NO TEE HOSE OR FIRE HOSE ATTACHMENTS PERMITTED ABOVE GROUND.
16. IF OTHER ASSEMBLIES ARE PROPOSED TO BE PLACED MANUALLY TO METER PER BACKFLOW ASSEMBLY (I.E. FIRE SERVICES, IRRIGATION METERS, ETC.) THERE SHALL BE A MINIMUM OF 2006 OF SEPARATION BETWEEN ASSEMBLIES AS MEASURED FROM OUTSIDE TO OUTSIDE.
17. CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
18. IF A FIRE SERVICE METER IS USED, NO STRAINER IS REQUIRED AS STRAINERS ARE PART OF THE ASSEMBLY. IF A COMPOUND METER IS USED, A STRAINER SHALL BE INSTALLED IN THE LOCATION SHOWN ON THE PLAN.
19. CLEAN TO BE PROVIDED BY CONTRACTOR, LESS WILL BE PROVIDED BY MCU.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # NA | COMMERCIAL METERS 3" AND ABOVE W/ SINGLE BACKFLOW PREVENTER | 7.3.2 UT 215B



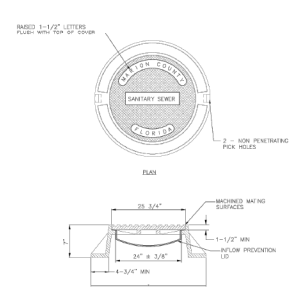
NOTES:
1. FORCEMAIN ORIENTED TO FACILITATE FLOW AND SHALL ENTER MANHOLE BETWEEN 1" AND 6" ABOVE INVERT OF THE EFFLUENT PIPE.
2. BENCH AS REQUIRED FOR NEW FORCEMAIN, SHALL HAVE MCU APPROVED LINER INSTALLED.
3. ALL CONNECTIONS SHALL COMPLY WITH UNDER EXIST MARION COUNTY LAND DEVELOPMENT CODE. FOR CONNECTIONS TO EXISTING MANHOLES, MANHOLE RECEIVING FORCEMAIN SHALL BE LINED PER MARION COUNTY LAND DEVELOPMENT CODE.
4. CONTRACTOR TO COORDINATE THE PRESENCE OF MCU INSPECTOR DURING CORING AND CONNECTIONS TO EXISTING MANHOLES.
5. ALL DOWNSTREAM MANHOLES WITHIN 400' OF THE CONNECTION SHALL BE LINED.
6. ALL MANHOLES SHALL BE EXTERNALLY HEAT SHRINK WRAPPED.
7. IN LIEU OF SHRINK WRAPPING, MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244 OR HYDROSTATIC TESTED IN ACCORDANCE WITH ASTM C969 AS REQUIRED BY MCU.
8. SHRINK WRAP/TESTING MUST BE INSPECTED IN PERSON, OR THROUGH AN MCU APPROVED METHOD, BY AN MCU CONSTRUCTION REPRESENTATIVE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | FORCEMAIN TO GRAVITY SEWER CONNECTION | 7.3.2 UT 302



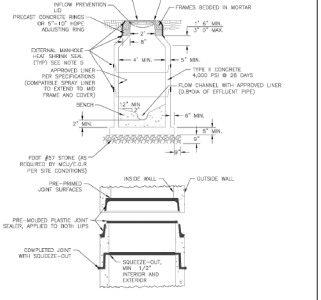
NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT LINES WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT. ALL MANHOLES WITH DROP CONNECTIONS MUST BE LINED AND HAVE COMPOSITE RING AND COVER.
3. CONTRACTOR TO COORDINATE THE PRESENCE OF MCU INSPECTOR DURING CORING AND CONNECTIONS TO EXISTING MANHOLES.
4. POUR NEW BENCH FOR CONNECTION PER UT 302.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | GRAVITY MANHOLE CONNECTION | 7.3.2 UT 303



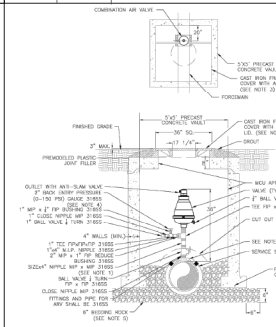
NOTES:
1. RING AND COVER SHALL BE COMPOSITE FOR DROP AND FORCEMAIN CONNECTIONS

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | STANDARD SEWER MANHOLE FRAME AND COVER | 7.3.2 UT 305



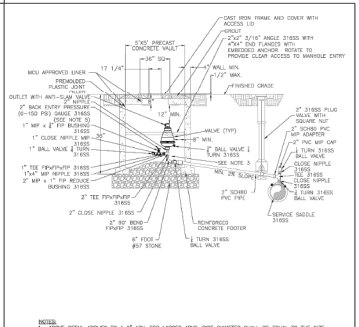
NOTES:
1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE GRAVITY MANHOLE CONNECTION DETAIL UT 303.
2. CONTRACTOR TO COORDINATE THE PRESENCE OF MCU INSPECTOR DURING CORING AND CONNECTIONS TO EXISTING MANHOLES.
3. ALL DOWNSTREAM MANHOLES WITHIN 400' OF THE CONNECTION SHALL BE LINED.
4. ALL MANHOLES SHALL BE EXTERNALLY HEAT SHRINK WRAPPED.
5. USE EXTERNAL WRAP TO TIGHTLY WRAP MANHOLE AROUND CASTING JOINTS AND APPLY HIGH INTENSITY PROPANE TORCH TO EFFECTIVELY SEAL THEM FROM GROUND WATER INFILTRATION. ALL EXTERNAL HEAT SHRINK WRAPS SHALL BE INSPECTED IN PERSON, OR THROUGH A MCU APPROVED METHOD, BY A MCU CONSTRUCTION REPRESENTATIVE.
6. INFLOW PREVENTION LIDS SHALL BE REQUIRED FOR ALL MANHOLES.
7. ADJUSTING RINGS SHALL BE COMPOSITE OR PRECAST CONCRETE RINGS.
8. SECTION HEIGHTS VARY AS REQUIRED, AND AS AVAILABLE.
9. IN LIEU OF SHRINK WRAPPING, MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244 OR HYDROSTATIC TESTED IN ACCORDANCE WITH ASTM C969 AS REQUIRED BY MCU.
10. FLOW CHANNEL DEPTH AND WIDTH CANNOT BE LESS THAN BOR OF OUTFLOW PIPE.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | PRECAST CONCRETE MANHOLE | 7.3.2 UT 306



NOTES:
1. ABOVE DETAIL IS BASED ON 3" COMBINATION AIR/VACUUM RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY IF VALVE SIZE IS DIFFERENT. SIZE OF VALVE TO BE DETERMINED BY THE ENGINEER AND APPROVED BY MCU PRIOR TO INSTALLATION. ENGINEER TO PROVIDE SIZING CALCULATIONS.
2. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0'.
3. LID TO BE LETTERED WITH THE APPROPRIATE WORD "SEWER" (FOR UT 305).
4. PRESSURE GAUGE SHALL HAVE A STAINLESS CASE WITH STAINLESS STEEL SYSTEM AND DIAPHRAGM.
5. DOUBLE STRAP AROUND THE BOTTOM OF PIPE.
6. ALL AIR RELEASE VALVE VAULTS SHALL BE TRAFFIC RATED (H20 LOADING).
7. AIR RELEASE VALVE VAULTS SHALL BE LINED ON THE INSIDE AND LINER SHALL EXTEND UP TO MID FRAME AND COVER.
8. ARV VAULT SIZE TO BE DETERMINED BY REQUIRED ARV SIZE AND DEPTH OF MAIN.
9. ARV INLET AND OUTLET SHALL BE SAME SIZE AS PROPOSED FORCE MAIN SO VALVE VAULT CAN BE INSTALLED FLUSH WITH THE PROPOSED GRADE.
10. ARV INLET AND OUTLET SHALL BE SAME SIZE.
11. FOR FORCEMAINS 16" AND LARGER, A 4" TAPPING SADDLE AND PLUG VALVE SHALL BE USED.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | AIR RELEASE VALVE SEWER AND RECLAIMED | 7.3.2 UT 307



NOTES:
1. ABOVE DETAIL APPLIES TO A 3" ARV. FOR LARGER ARVS, PIPE DIAMETER SHALL BE EQUAL TO THE SIZE OF THE ARV. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY MCU PRIOR TO INSTALLATION. ENGINEER TO PROVIDE SIZING CALCULATIONS.
2. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0'.
3. ALL VALVE INTERNAL PIPING, VALVES, AND APPURTENANCES TO BE 316SS EXCEPT WHERE SPECIFIED OTHERWISE.
4. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RIGHT OF WAY AS POSSIBLE AND CLEAR OF PEDESTRIAN WALKWAYS. IF PIPE AT RIGHT-OF-WAY LINE, NO OFFSET REQUIRED.
5. PRESSURE GAUGE SHALL HAVE A STAINLESS CASE WITH STAINLESS STEEL INTERNAL SYSTEM AND DIAPHRAGM.
6. ALL AIR RELEASE VALVE VAULTS SHALL BE TRAFFIC RATED (H20 LOADING).
7. AIR RELEASE VALVE VAULTS SHALL BE LINED ON THE INSIDE AND LINER SHALL EXTEND UP TO MID FRAME AND COVER.
8. ARV VAULT SIZE TO BE DETERMINED BY ARV SIZE.
9. ARV INLET AND OUTLET SHALL BE SAME SIZE.
11. FOR FORCEMAINS 16" AND LARGER, A 4" TAPPING SADDLE AND PLUG VALVE SHALL BE USED.

Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/13/2023 | REVISION # 2 | AIR OR COMBINATION AIR RELEASE VALVE IN VAULT, SEWER | 7.3.2 UT 308

NO.	DESCRIPTION	DATE	BY
A	-	-	-

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LICENSED PROFESSIONAL
MARK GRAGUE
FLORIDA LICENSE NUMBER
87476
DATE: ——

FDOT PROJECT 24973800
DATE 10/7/2025
SCALE AS SHOWN
DESIGNED BY MPA
DRAWN BY
CHECKED BY

MARION COUNTY DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY
FLORIDA

SHEET NUMBER
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NOTES:
1. CLEARANCE OF 30" FREE FROM OBSTRUCTIONS IN ALL DIRECTIONS.
2. AREAS SUPPORTING CONCRETE COLLAR OR SLAB SHALL BE PROPERLY COMPACTED.
3. TOP OF MANHOLE SHALL BE 2" ABOVE FINISHED GRADE, CROWN OF ADJACENT ROADWAY, OR 100 YEAR FLOOD ELEVATION, WHICHEVER IS GREATER.

Marion County FLORIDA VISIONS	MCBCC EFFECTIVE 04/13/2023	MANHOLE IN NON-PAVED AREA	7.3.2 UT 309
	REVISION # 1		

NOTES:
1. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
2. WYE TO BE NO SHALLOWER THAN 3' AND NO DEEPER THAN 5'.
3. ALL FITTINGS SHOWN ARE TO BE INSTALLED.
4. SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY ETCHING OR STAMPING AN "S" IN THE CURB DIRECTLY OVER THE LATERAL. WHERE NO CURB EXISTS, LOCATION SHALL BE MARKED BY PLACEMENT OF ADHESIVE REFLECTIVE MARKERS AS SPECIFIED BY MCD.
5. CLEANOUT SHALL BE INSTALLED 6" ABOVE THE FINISHED GRADE. CLEANOUTS IN RV PARKS SHALL BE CAP SET 3" ABOVE FINISHED GRADE WITH A CONCRETE COLLAR.
6. DURING CONSTRUCTION, SERVICE LATERAL AND CLEANOUTS SHALL BE STUBBED OUT A MINIMUM OF 1' ABOVE FINISHED GRADE AND SHALL BE CAPPED BY DEVELOPER'S SITE-WORK CONTRACTOR UNTIL PROPERTY IS DEVELOPED AND CONNECTION TO CENTRAL SEWER IS MADE BY PLUMBER.
7. BUILDER'S PLUMBER SHALL CUT RISER, INSTALL CLEANOUT CAP, REMOVE TEMPORARY PLUG, CONNECT SERVICE LATERAL TO HOUSE PLUMBING AND GROUT VOID BETWEEN CLEANOUT AND PAD.
8. ALL DEVELOPMENT SHALL BE DESIGNED AND BUILT IN A MANNER WHERE THE LOWEST WASTEWATER SERVICE LATERAL DOES NOT DROP BELOW THE GRAVITY SEWER GRADE LINE.

Marion County FLORIDA VISIONS	MCBCC EFFECTIVE 04/13/2023	SEWER SERVICE LATERAL	7.3.2 UT 312
	REVISION # 2		

N.T.S.

Marion County FLORIDA VISIONS	MCBCC EFFECTIVE 04/13/2023	LIFT STATION WATER SERVICE AND PRESSURE TRANSDUCER ASSEMBLY	7.3.2 UT 513
	REVISION # 1		

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NO.	REVISIONS	DATE	BY
1	-	-	-

LICENSED PROFESSIONAL
MARK GRAHLE
FLORIDA LICENSE NUMBER 87476
DATE: —

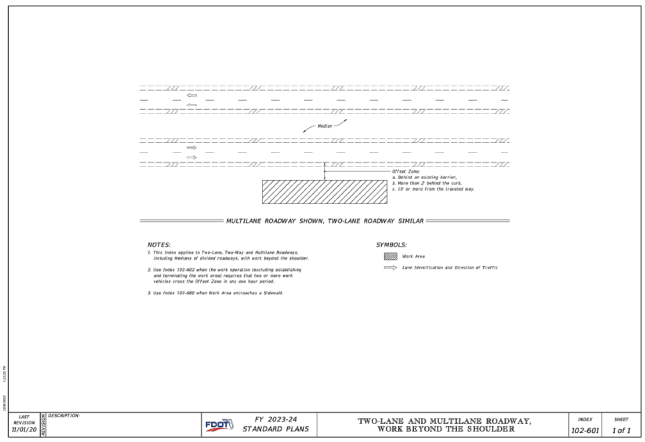
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DATE 10/16/2025
SCALE AS SHOWN
DESIGNED BY MHA
DRAWN BY
CHECKED BY

MARION COUNTY DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER C7.4

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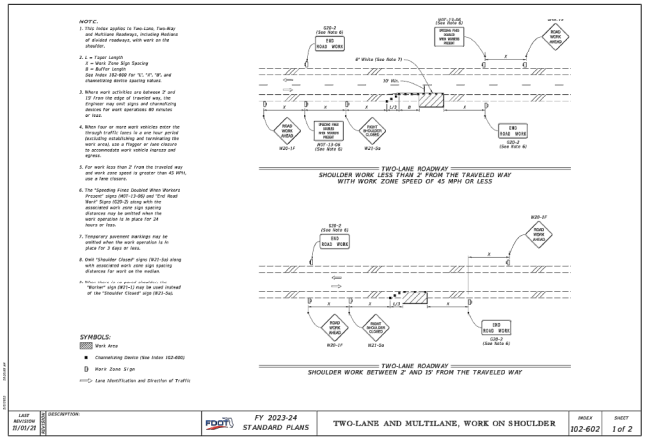


MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work areas) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:
Work Area
Lane Identification and Direction of Traffic

LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	INDEX	SHEET
11/01/20					102-601	1 of 1



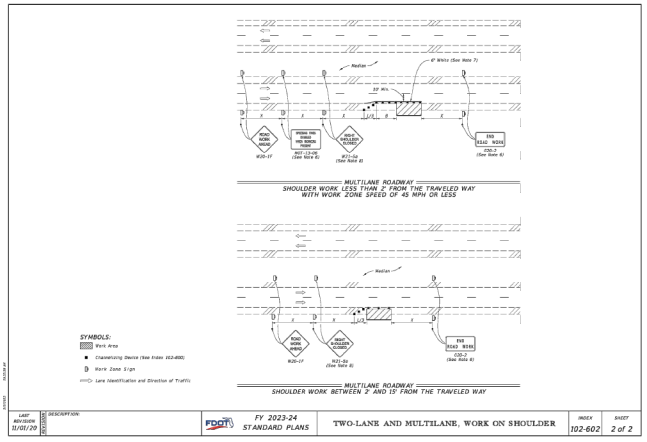
NOTE:
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
S = Work Zone Sign Spacing
B = Buffer Length
See Index 102-600 for "L", "S", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (R07-1-D&E) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
* When there is no speed shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:
Work Area
Channelizing Device (See Index 102-600)
Work Zone Sign
Lane Identification and Direction of Traffic

TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS

TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/21					102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY WITH WORK ZONE SPEED OF 45 MPH OR LESS

SYMBOLS:
Work Area
Channelizing Device (See Index 102-600)
Work Zone Sign
Lane Identification and Direction of Traffic

MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/21					102-602	2 of 2

NO.	DATE	BY
1	--	--

REVISIONS

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LICENSED PROFESSIONAL
MARK GRAHLE
FLORIDA LICENSE NUMBER
87476
DATE: --

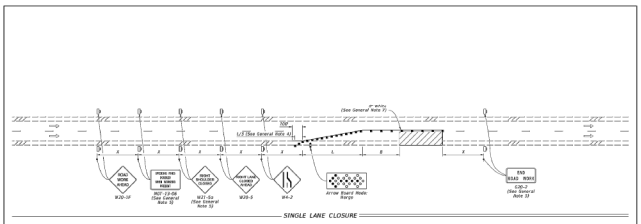
FDOT PROJECT
249738000
DATE
10/7/2025
SCALE AS SHOWN
DESIGNED BY MPA
DRAWN BY
CHECKED BY

FDOT MOT DETAILS

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C7.5

Printed by Sharma, Nitin - Thursday, October 16, 2025 - 09:46:47pm K:\JAX_LAND\249738000 - SR 200 & HWY 484 master infrastructure\LAND\CONST plan sheets\C7.5 - DETAILS.dwg
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SINGLE LANE CLOSURE

SYMBOLS:

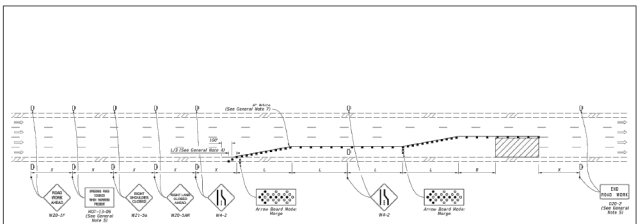
Work Area
Channelizing Device (See Index 102-600)
Work Zone Sign
Arrow Board
Lane Identification and Direction of Traffic

GENERAL NOTE:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Distance
   See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
2. On unlimited highways the median signs as shown are to be omitted.
3. On limited access facilities, omit "Right Shoulder Closed" signs (W21-5a) and associated work zone sign spacing distances.
4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
5. The "Speeding Fines Doubled When Workers Present" signs (NOT-13-06) and "End Road Work" signs (G20-2) and "Right Shoulder Closed" (W21-5a), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less. For Single Lane Closures, arrow boards and buffer (B) may also be omitted when the work operation will be in place for 60 minutes or less and the speed limit is 45 mph or less.
6. See inverted plan of the illustrations for work on left side of roadways.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

LAST REVISION	DESCRIPTION
11/01/21	

FDOT FY 2023-24 STANDARD PLANS | MULTILANE ROADWAY, LANE CLOSURES | INDEX 102-613 | SHEET 1 of 5



DOUBLE LANE CLOSURE

SYMBOLS:

Work Area
Channelizing Device (See Index 102-600)
Work Zone Sign
Arrow Board
Lane Identification and Direction of Traffic

LAST REVISION	DESCRIPTION
11/01/20	

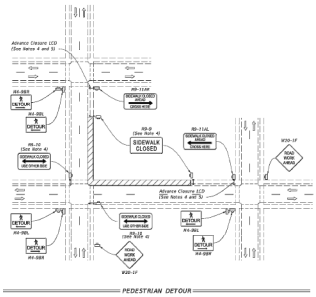
FDOT FY 2023-24 STANDARD PLANS | MULTILANE ROADWAY, LANE CLOSURES | INDEX 102-613 | SHEET 2 of 5

NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian CCDs across the full width of the closed sidewalk.
3. Per post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-9A) may be mounted on pedestrian CCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure CCD if it blocks access to other pedestrian facilities (e.g., transit stops, roadsides, or business entrances).

SYMBOLS:

Work Area
Work Zone Sign
Pedestrian Longitudinal Channelizing Device (LCD)
Lane Identification and Direction of Traffic



PEDESTRIAN DETOUR

LAST REVISION	DESCRIPTION
11/01/20	

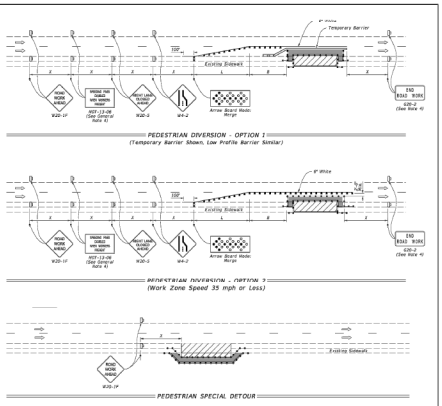
FDOT FY 2023-24 STANDARD PLANS | SIDEWALK CLOSURE | INDEX 102-660 | SHEET 1 of 2

NOTES:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Distance
   See Index 102-600 for "L", "B", "X", channelizing device spacing values.
2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 5.0% except where space restrictions warrant a minimum width of 4'. In such cases, a 4' passage for the temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 302-600. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
4. The "Speeding Fines Doubled When Workers Present" signs (NOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
5. Pedestrian Diversion (option 1 may only be used when called for in the Plans or as approved by an Engineer.

SYMBOLS:

Work Area
Temporary Pedestrian Way
Channelizing Device (See Index 102-600)
Pedestrian Longitudinal Channelizing Device (LCD)
Work Zone Sign
Arrow Board
Crash Cushion
Lane Identification and Direction of Traffic



LAST REVISION	DESCRIPTION
11/01/21	

FDOT FY 2023-24 STANDARD PLANS | SIDEWALK CLOSURE | INDEX 102-660 | SHEET 2 of 2

NO.	REVISIONS	BY	DATE
A	-	-	-

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LICENSED PROFESSIONAL ENGINEER: MARK GRAHLE
FLORIDA LICENSE NUMBER: 87476
DATE: -

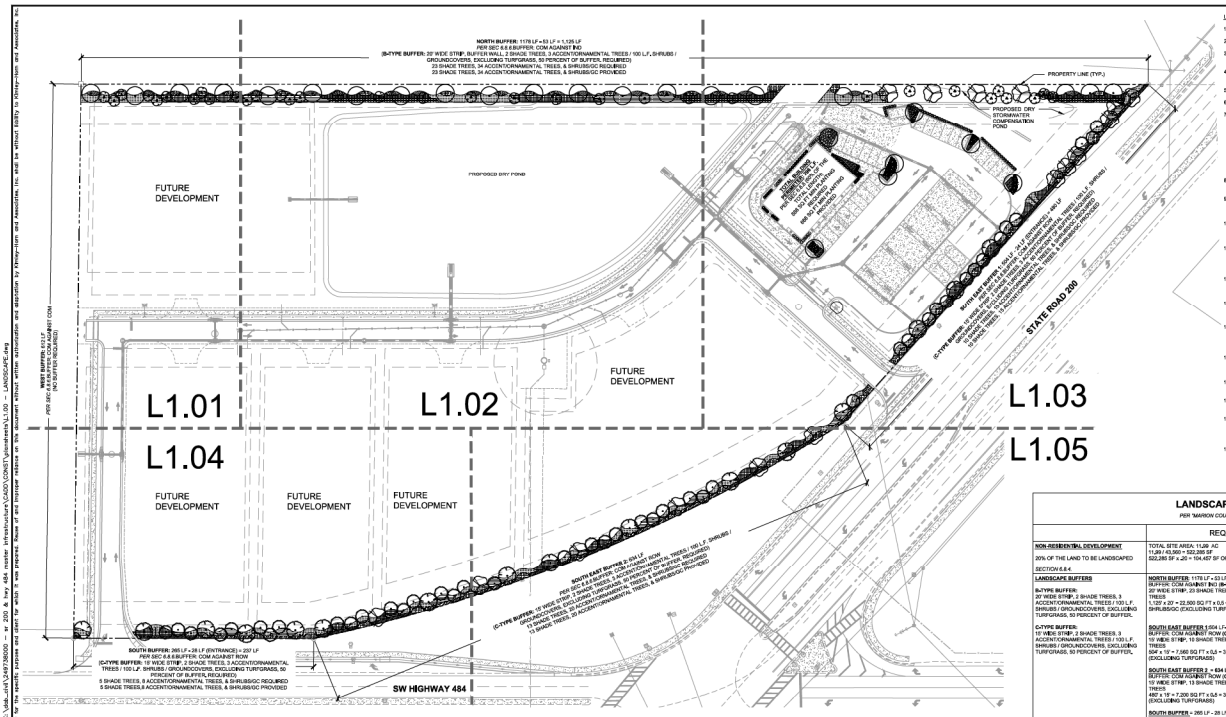
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DATE: 10/4/2021
SCALE: AS SHOWN
DESIGNED BY: MPA
DRAWN BY:
CHECKED BY:

FDOT MOT DETAILS

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
C7.6

Printed by Sharma, Nitin - Thursday, October 14, 2021 - 09:46:48am
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PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	CAL	SIZE
CANOPY TREE							
	AF	16	FLORIDA FLAME RED MAPLE STRAIGHT, SINGLE LEADER, FULL FL #1	ACER RUBRUM 'FLORIDA FLAME'	FG	3" CAL MIN	12' HT., 5' SPR.
	MG	16	SOUTHERN MAGNOLIA STRAIGHT, SINGLE LEADER, FULL, FL #1	MAGNOLIA GRANDIFLORA 'D2L BLANCHARD' TM	FG	3" CAL MIN	12' HT., 6' SPR.
	QV	27	LIVE OAK STRAIGHT, SINGLE LEADER, FULL, FL #1	QUERCUS VIRGINIANA	FG	3" CAL MIN	12' HT., 6' SPR.
UNDERSTORY TREES							
	IC	43	DAHOON HOLLY STRAIGHT, SINGLE-LEADER, FL #1	ILEX CASSINE	FG	3" CAL MIN	10' HT
	LT	34	TUSKEGEE CRAPE MYRTLE MULTI-TRUNK, 5-TRUNK MIN., FL #1	LAGERSTROEMIA X 'TUSKEGEE'	FG	5" CAL. TOT.	14' HT., 6' SPR.
SYMBOL	**CODE**	**QTY**	**COMMON NAME**	**BOTANICAL NAME**	**CONT**	**SIZE**	**SPACING**
SHRUBS							
	HF	22	FIREFLY FIREBUSH FULL	HAMELIA PATENS 'FIREFLY'	3 GAL	18" FULL	36" OC
	IS	79	DWARF YAUPON FULL	ILEX VOMITORIA 'STOKES DWARF'	3 GAL	12" HT	24" OC
	MC2	33	WAX MYRTLE FULL	MYRICA CERIFERA	3 GAL	18" FULL	36" OC
	TC	66	DWARF FAKACHATCHEE GRASS FULL	TORREYA GUI ID TORREYA TAXIFOLIA 'DWARF'	3 GAL	18" FULL	36" OC
	VO2	73	SWEET VIBURNUM FULL	VIBURNUM ODORATISSIMUM	3 GAL	24" HT	30" OC

SHRUB AREAS

	MCA	1,257	PINK MUHLY FULL	MUHLENBERGIA CAPILLARIS	3 GAL	24" HT	30" OC
	MF	610	SIMPSON'S STOPPER FULL	MYRCIANTHES FRAGRANS	3 GAL	24" HT	30" OC
	PA	666	BLUE PLUMBAGO FULL	PLUMBAGO AURICULATA	3 GAL	24" HT	30" OC
	VO	693	WALTER'S VIBURNUM FULL	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	7 GAL	24" HT	30" OC

GROUND COVERS

	MS	425	SUNSHINE MIMOSA FULL	MIMOSA STRIGILLOSA	1 GAL	12" FULL	18" OC
	PN	1,902	FROG FRUIT FULL	PHYLA NODIFLORA VAR. 'INCISA'	1 GAL	10" FULL	12" OC
	TM	1,044	DUNE SUNFLOWER FULL	HELIANTHUS DEBILIS	1 GAL	12" FULL	18" OC
	TV	1,279	SOCIETY GARLIC FULL	TULBAGHIA VIOLACEA	1 GAL	18" FULL	18" OC

MISC.	QTY	BOTANICAL/COMMON NAME	SPECIFICATIONS
SOD	TBD	PASPALUM NOTATUM 'ARGENTINE' ARGENTINE BAHIA GRASS	ROLLED TIGHT, 100% WEED/INSECT/DISEASE FREE
MULCH	TBD	DESIGNER BROWN HARDWOOD MULCH	3" DEPTH MINIMUM, SHREDDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL

LANDSCAPE NOTES:

1. ALL LANDSCAPE MATERIAL TO BE FLORIDA GRADE #1 OR BETTER QUALITY
2. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL.
3. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
4. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES PRIOR TO THE WORK, 2) TO PROTECT ALL UTILITY LINES FROM DAMAGE DURING THE CONSTRUCTION AND 3) TO REPAIR AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD.
11. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
12. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
14. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GRADED IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
15. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
16. ALL LANDSCAPE AREAS WILL BE PROVIDED WITH PERMANENT AUTOMATIC IRRIGATION SYSTEM.
17. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS "ESTABLISHED" AS APPROVED BY THE LANDSCAPE ARCHITECT.
18. ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.
19. ALL PLANTED LANDSCAPE AREAS TO HAVE 3" DEEP DESIGNER BROWN HARDWOOD MULCH TO FULLY COVER DRIP IRRIGATION & AMENDED SOILS. REPAIR AS NEEDED DURING CONSTRUCTION. SUBMIT ALTERNATING MULCH SPECIFICATION FOR LANDSCAPE ARCHITECT APPROVAL.

LANDSCAPE CALCULATIONS

PER "MARION COUNTY" LAND DEVELOPMENT CODE

	REQUIRED	PROVIDED
NON-RESIDENTIAL DEVELOPMENT 20% OF THE LAND TO BE LANDSCAPED SECTION 6.6.4	TOTAL SITE AREA: 11.09 AC 11,269 / 43,560 = 522,285 SF 522,285 SF x .20 = 104,457 SF OF LANDSCAPE	104,457 SF OF LANDSCAPE
LANDSCAPE BUFFERS **B-TYPE BUFFER:** 20' WIDE STRIP, 2 SHADE TREES, 3 ACCENT/ORNAMENTAL TREES / 100 L.F. SHRUBS / GROUNDCOVERS, EXCLUDING TURFGRASS, 50 PERCENT OF BUFFER, **C-TYPE BUFFER:** 15' WIDE STRIP, 2 SHADE TREES, 3 ACCENT/ORNAMENTAL TREES / 100 L.F. SHRUBS / GROUNDCOVERS, EXCLUDING TURFGRASS, 50 PERCENT OF BUFFER,	**NORTH BUFFER**: 1176 LF + 53 LF = 1,125 LF BUFFER: COM AGAINST ROW (B-TYPE BUFFER) 20' WIDE STRIP, 23 SHADE TREES, 34 ACCENT/ORNAMENTAL TREES 1,125' x 20' = 22,500 SQ FT x 0.5 = 11,250 SQ FT MIN OF SHRUBS/GC (EXCLUDING TURFGRASS) **SOUTH EAST BUFFER 1**:604 LF+ 24 LF = 480 LF BUFFER: COM AGAINST ROW (C-TYPE BUFFER) 15' WIDE STRIP, 13 SHADE TREES, 15 ACCENT/ORNAMENTAL TREES 604' x 15' = 7,560 SQ FT x 0.5 = 3,780 SQ FT MIN OF SHRUBS/GC (EXCLUDING TURFGRASS) **SOUTH EAST BUFFER 2**: = 634 LF BUFFER: COM AGAINST ROW (C-TYPE BUFFER) 15' WIDE STRIP, 13 SHADE TREES, 20 ACCENT/ORNAMENTAL TREES 1918' 480' x 15' = 7,200 SQ FT x 0.5 = 3,600 SQ FT MIN OF SHRUBS/GC (EXCLUDING TURFGRASS) **SOUTH BUFFER** = 265 LF - 28 LF = 237 LF BUFFER: COM AGAINST ROW (C-TYPE BUFFER) 15' WIDE STRIP, 5 SHADE TREES, 8 ACCENT/ORNAMENTAL TREES 1'RE' 237' x 15' = 3,555 SQ FT x 0.5 = 1,778 SQ FT MIN OF SHRUBS/GC (EXCLUDING TURFGRASS) **WEST BUFFER** = 612 LF COM AGAINST COM (NO BUFFER REQUIRED)	**NORTH BUFFER** 20 WIDE STRIP, 23 SHADE TREES, 34 ACCENT/ORNAMENTAL TREES & 11,256 SQ FT OF SHRUBS/GC (EXCLUDING TURFGRASS) **SOUTH EAST BUFFER 1** 15' WIDE STRIP, 13 SHADE TREES, 15 ACCENT/ORNAMENTAL TREES, & 4,914 SQ FT OF SHRUBS/GC (EXCLUDING TURFGRASS). **SOUTH EAST BUFFER 2** 15' WIDE STRIP, 13 SHADE TREES, 20 ACCENT/ORNAMENTAL TREES & 3,839 SQ FT OF SHRUBS/GC (EXCLUDING TURFGRASS). **SOUTH BUFFER** 15' WIDE STRIP, 5 SHADE TREES, 8 ACCENT/ORNAMENTAL TREES & 2,047 SQ FT OF SHRUBS/GC (EXCLUDING TURFGRASS). **WEST BUFFER** (NO BUFFER REQUIRED)
PARKING AREAS & VUA PARKING LOT ISLANDS SHALL CONTAIN ONE SHADE TREE MIN 5' WIDE LANDSCAPE AREA OF SHRUBS / GROUNDCOVERS SECTION 6.6.2.2	7 PARKING LOT ISLANDS = 7 SHADE TREES	7 SHADE TREES
BUILDING LANDSCAPING 80% OF THE TOTAL LENGTH OF THE WALL, EXCLUDING THOSE AREAS REQUIRED FOR ACCESS TO THE BUILDING. SECTION 6.6.6	**TOTAL BUILDING PERIMETER: 290 L.F.** 290 LF x 0.8 LF = 1,665 x 20 = 664 SQ FT MIN OF PLANTING	666 L.F. OF BUILDING PERIMETER PLANTING
GENERAL PLANTING REQUIREMENTS 20% OF ALL PROPOSED PLANT MATERIALS, EXCLUDING TURFGRASS, TO BE NATIVE. MIN 50% OF REQUIRED SHADE TREES TO BE NATIVE MAX 50 % OF THE REQUIRED SHADE TREES OF ONE SPECIES. SECTION 6.6.10	**TOTAL PLANTING PROPOSED:** TREES: 106 x .25 = 34 MIN TREES TO BE NATIVE SHRUBS: 3,519 x .25 = 880 MIN SHRUBS TO BE NATIVE GROUND COVER: 4,868 x .25 = 1,163 MIN GROUND COVER TO BE NATIVE **TOTAL SHADE TREES: 99** 99 x .20 = 20 MIN SHADE TREES TO BE NATIVE 99 x.20 = 20 MAX SHADE TREES TO BE ONE SPECIES	102 NATIVE TREES (39%) 3,519 NATIVE SHRUBS (100%) 3,371 NATIVE GROUND COVER (72%) 99 SHADE TREES NATIVE (100%) 3 SPECIES PROVIDED

GRAPHIC SCALE IN FEET
0 25 50 100

NORTH

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IT'S THE LAW!
DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

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1530 CORNERSTONE BLVD, SUITE 200, DAYTONA BEACH, FL 32117
PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM CERTIFICATE No. 35106

LICENSED PROFESSIONAL
DATE: 10/17/2025

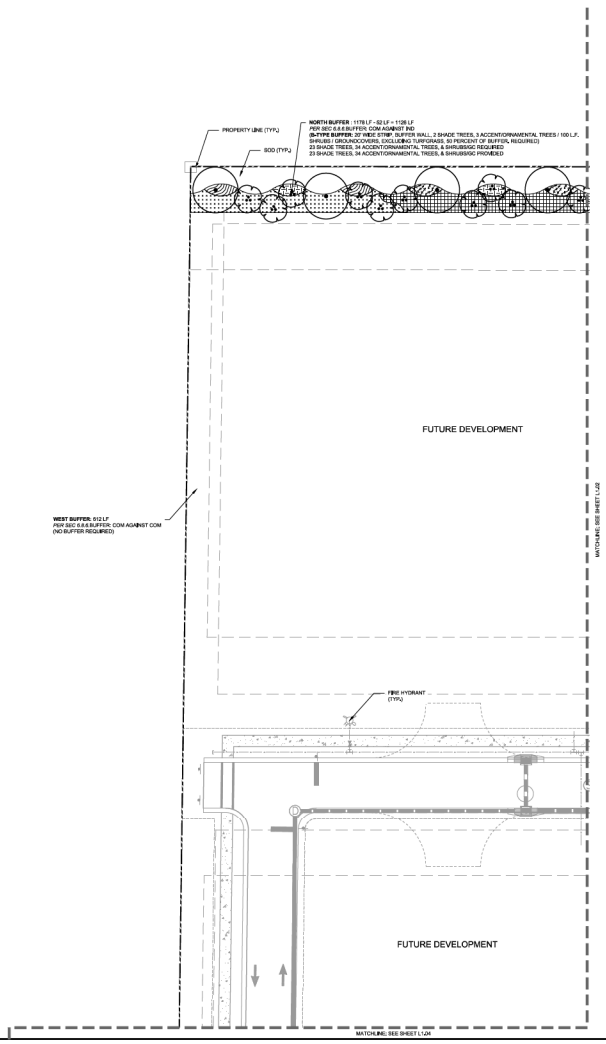
KHA PROJECT: 247138000
DATE: 10/17/2025
SCALE: AS SHOWN
DESIGNED BY: KDG
DRAWN BY: KDG
CHECKED BY: NAA

OVERALL LANDSCAPE PLAN

SR 200 & HWY 484
MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L1.00

Plotted By: Hoss, Kathy Sheet Set: SR200 & HWY484 Layout: L1.00 October 17, 2025 10:17:16am K:\Utl_Jax\247138000 – sr 200 & hwy 484 master infrastructure\CADD\CONST\plotsheets\L1.00 – LANDSCAPE.dwg
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PLANT KEY

SYMBOL	CODE	COMMON NAME
CANOPY TREE		
	AF	FLORIDA FLAME RED MAPLE
	MG	SOUTHERN MAGNOLIA
	QV	LIVE OAK
UNDERSTORY TREES		
	IC	DAHOON HOLLY
	LT	TUSKEGEE CRAPE MYRTLE
SHRUBS		
	HF	FIREFLY FIREBUSH
	IS	DWARF YAUPON
	MC2	WAX MYRTLE
	TF	DWARF FAKAHATCHEE GRASS
	VO2	SWEET VIBURNUM
SHRUB AREAS		
	MCX	PINK MUHLY
	MF	SIMPSON'S STOPPER
	PA	BLUE PLUMBAGO
	VO	WALTER'S VIBURNUM
GROUND COVERS		
	MS	SUNSHINE MIMOSA
	PN	FROG FRUIT
	TM	DUNE SUNFLOWER
	TV	SOCIETY GARLIC

MISC.	QTY.	BOTANICAL/COMMON NAME
SOD	TBD	PASPALUM NOTATUM 'ARGENTINE' ARGENTINE BAHIA GRASS
MULCH	TBD	DESIGNER BROWN HARDWOOD MULCH

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM EB27011 No. 35106

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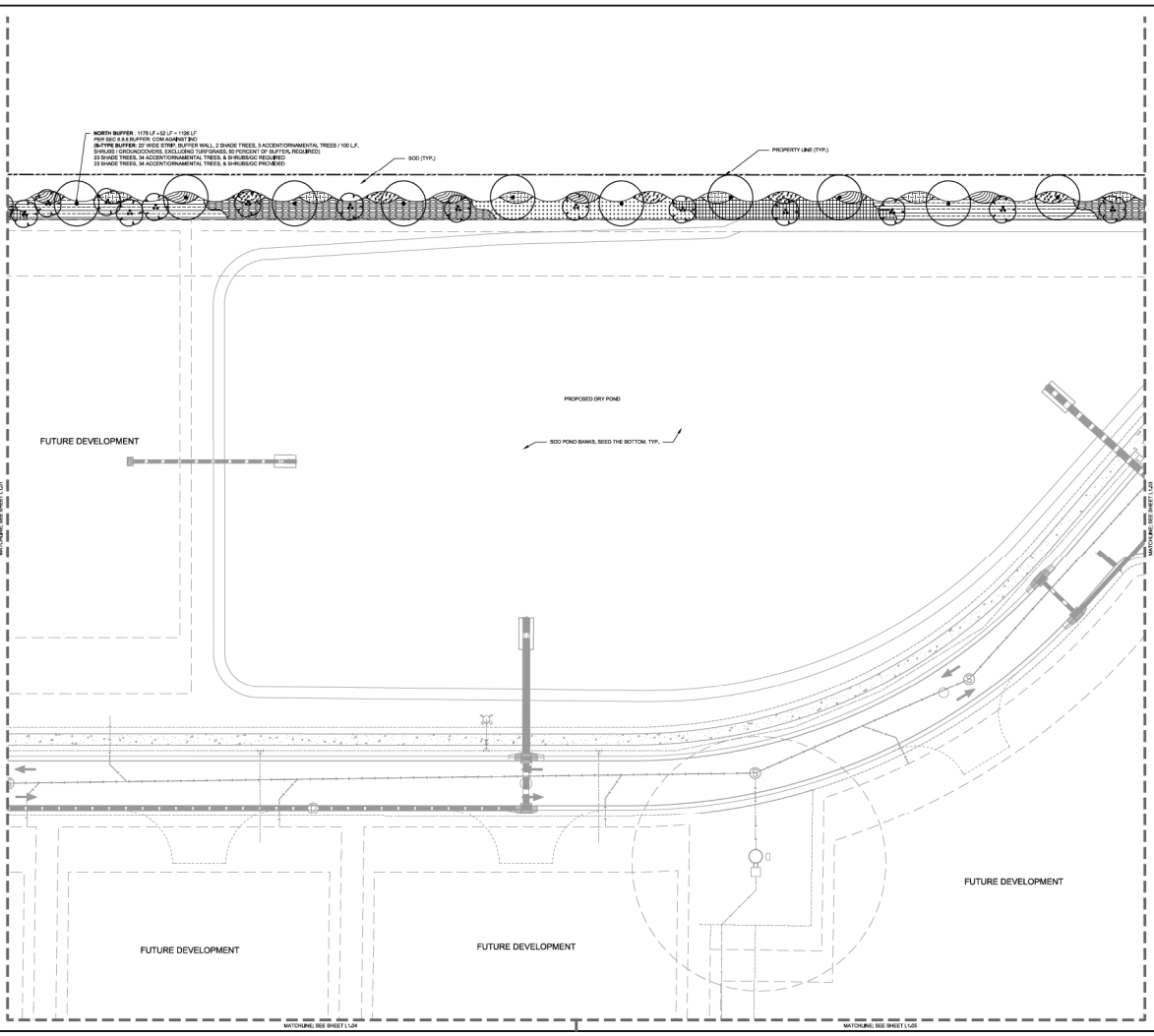
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DATE 10/17/2025
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DESIGNED BY KDG
DRAWN BY KDG
CHECKED BY NAA
DATE 10/17/2025

LANDSCAPE PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L1.01

Plotted By:Hoss, Kelley Sheet Set:SR200 & HWY484 Layout:L1.01 October 17, 2025 11:17:19am K:\Ida_Jax\247738000 - sr 200 & hwy 484 master infrastructure\CADD\CONST\plansheets\L1.01 - LANDSCAPE.dwg
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PLANT KEY

SYMBOL	CODE	COMMON NAME
CANOPY TREE		
	AF	FLORIDA FLAME RED MAPLE
	MG	SOUTHERN MAGNOLIA
	QV	LIVE OAK
UNDERSTORY TREES		
	IC	DAHOON HOLLY
	LT	TUSKEGEE CRAPE MYRTLE
SHRUBS		
	HF	FIREFLY FIREBUSH
	IS	DWARF YAUPON
	MC2	WAX MYRTLE
	TF	DWARF FAKAHATCHEE GRASS
	VO2	SWEET VIBURNUM
SHRUB AREAS		
	MCX	PINK MUHLY
	MF	SIMPSON'S STOPPER
	PA	BLUE PLUMBAGO
	VO	WALTER'S VIBURNUM
GROUND COVERS		
	MS	SUNSHINE MIMOSA
	PN	FROG FRUIT
	TM	DUNE SUNFLOWER
	TV	SOCIETY GARLIC

MISC.	QTY.	BOTANICAL/COMMON NAME
SOD	TBD	PASPALUM NOTATUM 'ARGENTINE' / ARGENTINE BAHIA GRASS
MULCH	TBD	DESIGNER BROWN HARDWOOD MULCH

NORTH

GRAPHIC SCALE IN FEET
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PHONE: 407-898-1511
WWW.KIMLEY-HORN.COM CERTIFICATE No. 35106

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KHA PROJECT	247738000
DATE	10/17/2025
SCALE	AS SHOWN
DESIGNED BY	KDG
DRAWN BY	KDG
CHECKED BY	NAA
DATE	10/17/2025

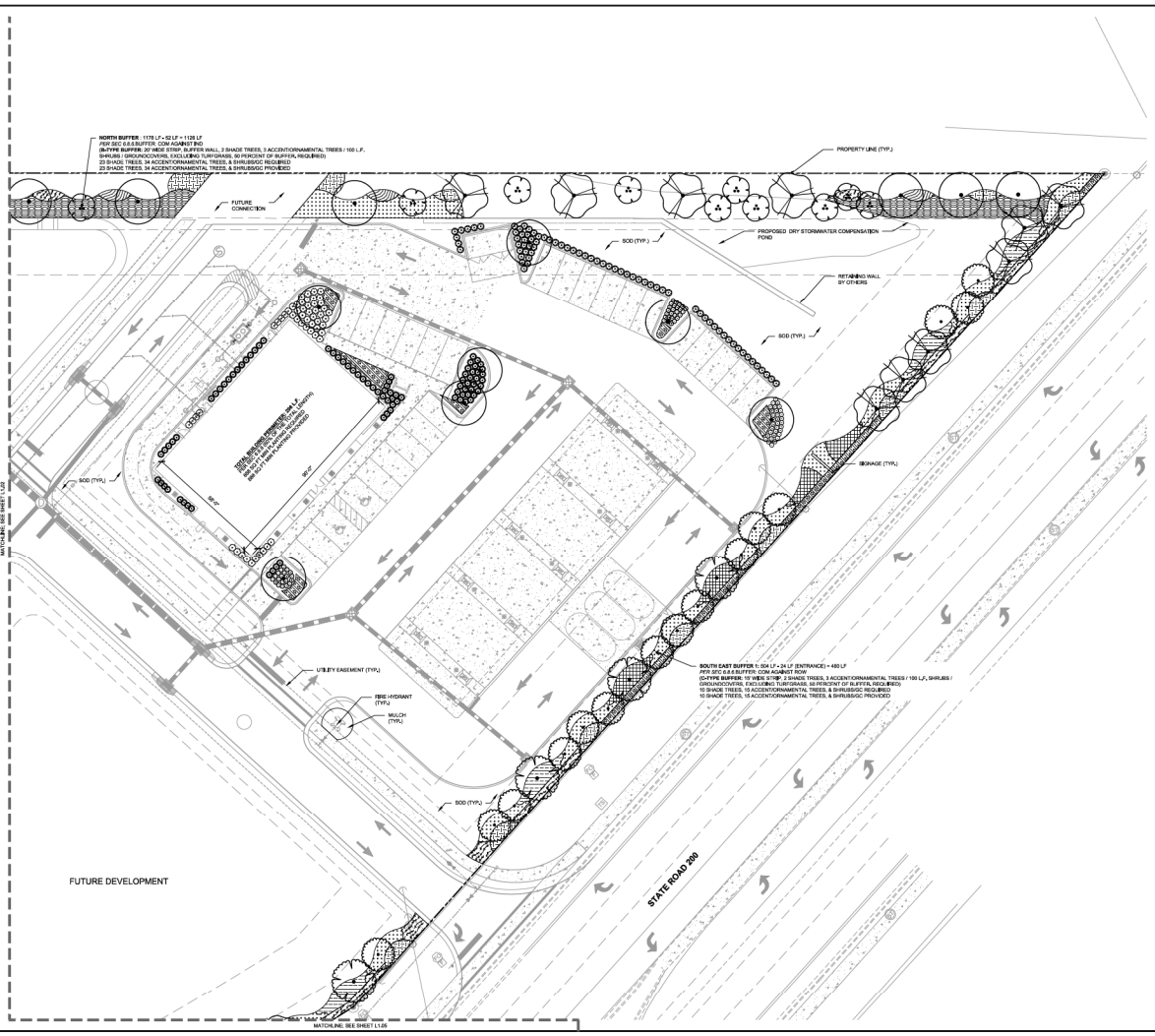
LANDSCAPE PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE

MARION COUNTY FLORIDA

SHEET NUMBER
L1.02

Plotted By:Hoss, Kelley Sheet Set:SR200 & HWY484 Layout:L1.02 October 17, 2025 10:17:22am K:\Ocala_Jnt\247738000 – sr 200 & hwy 484 master infrastructure\CAD\CIVIL\plansheets\L1.00 – LANDSCAPE.dwg
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PLANT KEY

SYMBOL	CODE	COMMON NAME
CANOPY TREE		
	AF	FLORIDA FLAME RED MAPLE
	MG	SOUTHERN MAGNOLIA
	QV	LIVE OAK
UNDERSTORY TREES		
	IC	DAHOON HOLLY
	LT	TUSKEGEE CRAPE MYRTLE
SHRUBS		
	HF	FIREFLY FIREBUSH
	IS	DWARF YAUPON
	MC2	WAX MYRTLE
	TF	DWARF FAKAHATCHEE GRASS
	VO2	SWEET VIBURNUM
SHRUB AREAS		
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	PA	BLUE PLUMBAGO
	VO	WALTER'S VIBURNUM
GROUND COVERS		
	MS	SUNSHINE MIMOSA
	PN	FROG FRUIT
	TM	DUNE SUNFLOWER
	TV	SOCIETY GARLIC

MISC.	QTY.	BOTANICAL/COMMON NAME
SOD	TBD	PASPALUM NOTATUM 'ARGENTINE' ARGENTINE BAHIA GRASS
MULCH	TBD	DESIGNER BROWN HARDWOOD MULCH

NORTH

GRAPHIC SCALE IN FEET
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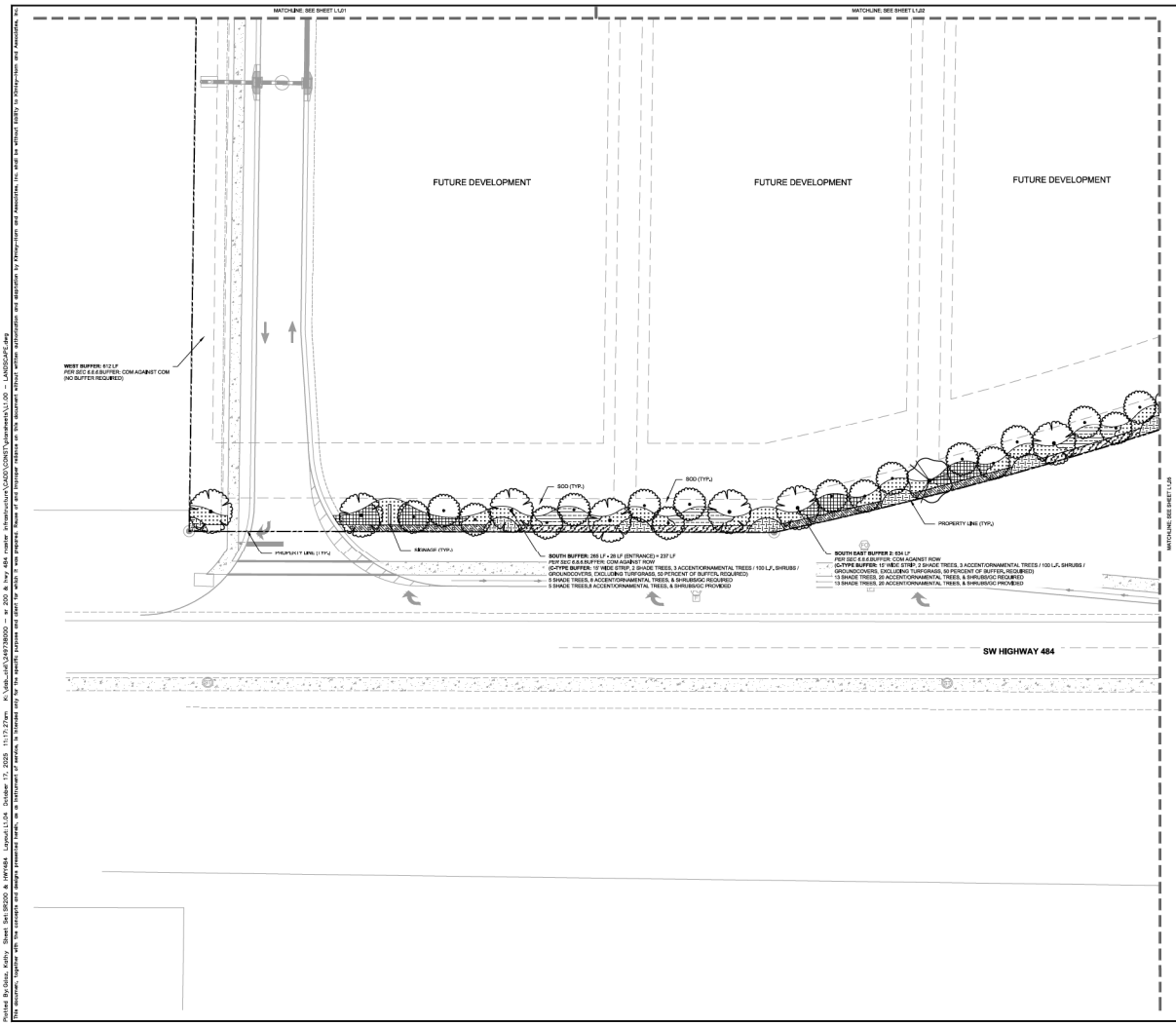
KHA PROJECT	247138000
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SCALE	AS SHOWN
DESIGNED BY	KDG
DRAWN BY	KDG
CHECKED BY	NAA

LANDSCAPE PLAN

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L1.03

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	TM	DUNE SUNFLOWER
	TV	SOCIETY GARLIC

MISC.	QTY.	BOTANICAL/COMMON NAME
SOD	TBD	PASPALUM NOTATUM 'ARGENTINE' ARGENTINE BAHIA GRASS
MULCH	TBD	DESIGNER BROWN HARDWOOD MULCH

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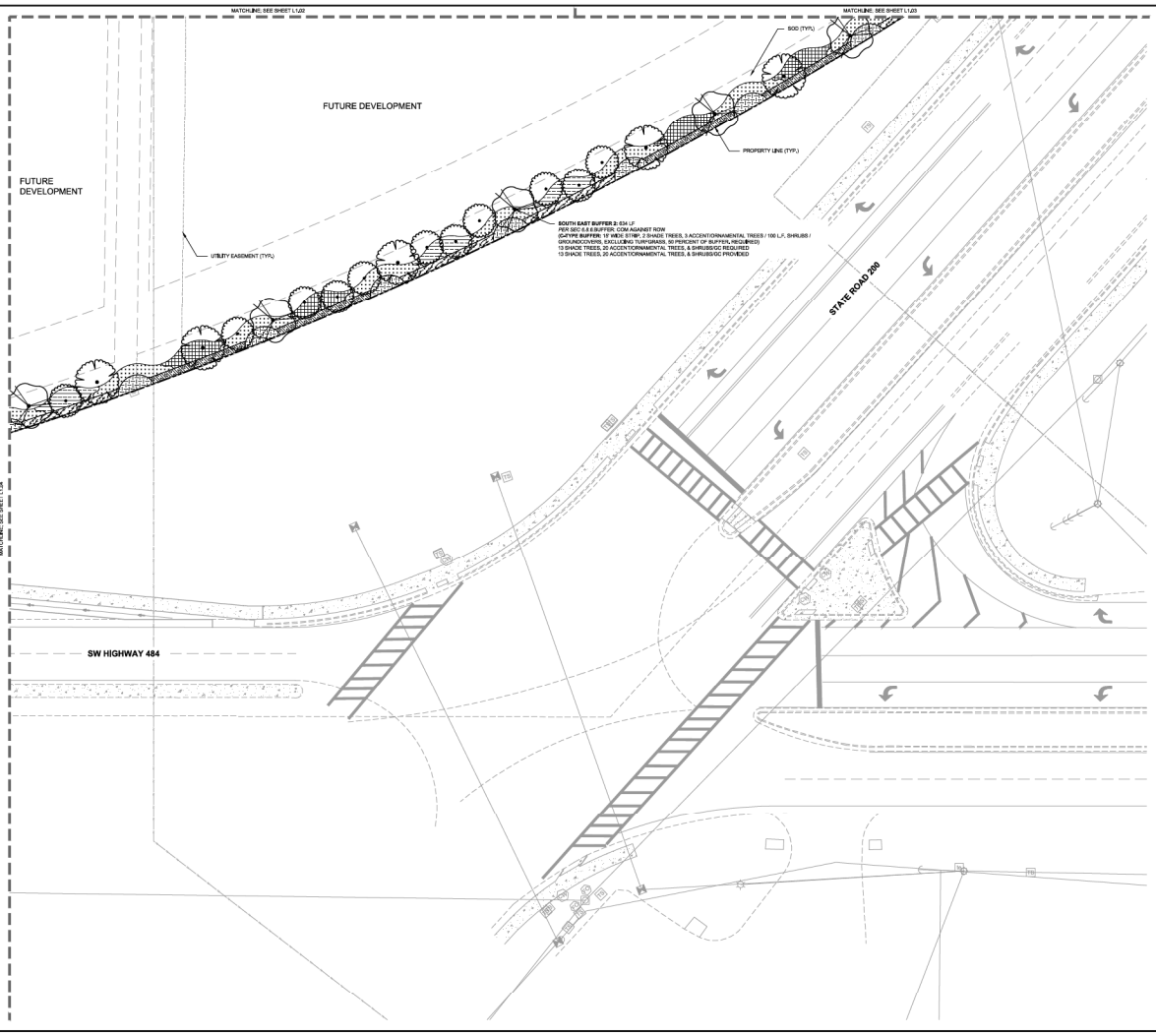
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DESIGNED BY KDG
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LANDSCAPE PLAN

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L1.04

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MEAS.	QTY.	BOTANICAL/COMMON NAME
SOD	TBD	PASPALUM NOTATUM 'ARGENTINE' ARGENTINE BAHIA GRASS
MULCH	TBD	DESIGNER BROWN HARDWOOD MULCH

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DATE: 10/17/2025

LANDSCAPE PLAN

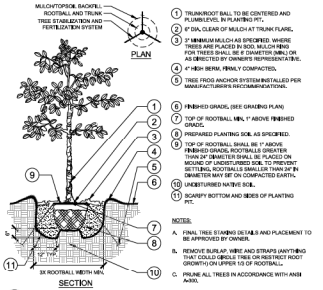
SR 200 & HWY 484 MASTER INFRASTRUCTURE

FLORIDA

MARION COUNTY

SHEET NUMBER
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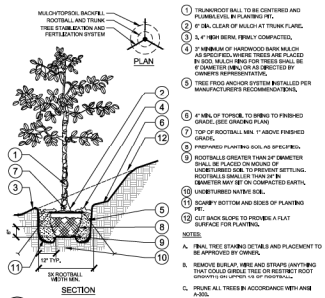
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1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3" MINIMUM MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 4' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. 4" HIGH BERM, FIRMLY COMPACTED.
5. TREE ROOT ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. FINISHED GRADE, (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. TOP OF ROOTBALL SHALL BE 1" ABOVE FINISHED GRADE, ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING, ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.

NOTES:
A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A300.

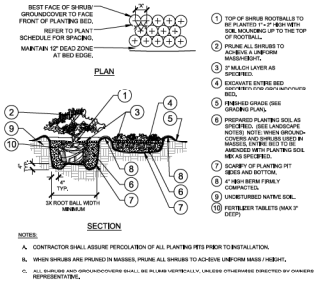
1 L1.50 TREE PLANTING
SECTION / PLAN NTS



1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3, 4" HIGH BERM, FIRMLY COMPACTED.
4. 3" MINIMUM OF HARDWOOD BARK MULCH AS SPECIFIED, WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 4' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. TREE ROOT ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING, ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.
12. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

NOTES:
A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

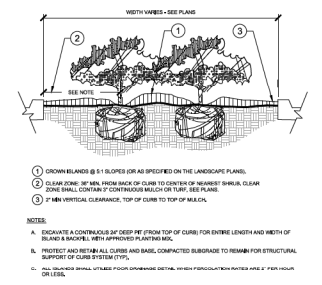
2 L1.50 TREE PLANTING ON A SLOPE
SECTION / PLAN NTS



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1"-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.
3. 3" MULCH LAYER AS SPECIFIED.
4. EXCAVATE ENTIRE BED AS SPECIFIED WITH FINE GRIPPY/MYRTLE BED.
5. FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES). NOTE: WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES, PLANTING BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY OF PLANTING PIT SIDES AND BOTTOM.
8. 4" HIGH BERM FIRMLY COMPACTED.
9. UNDISTURBED NATIVE SOIL.
10. FERTILIZER TABLETS (MAX 3" DEEP).

NOTES:
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.
C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

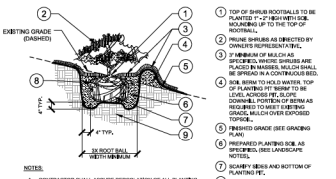
3 L1.50 SHRUB/GROUNDCOVER PLANTING
SECTION / PLAN NTS



1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB, CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF. SEE PLANS.
3. 2' MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

NOTES:
A. EXCAVATE A CONTINUOUS 24" DEEP PIT (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
B. PROTECT AND RETAIN ALL CURBS AND BASE, COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
C. ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

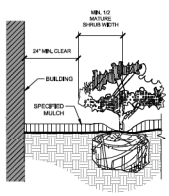
4 L1.50 PLANTED PARKING LOT ISLANDS/MEDIANS
SECTION NTS



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1"-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE SHRUBS AS DIRECTED BY OWNER'S REPRESENTATIVE.
3. 3" MINIMUM OF MULCH AS SPECIFIED, WHERE SHRUBS ARE PLACED IN MASSES, MULCH SHALL BE SPREAD IN A CONTINUOUS BED.
4. SOIL BERM TO HOLD WATER. TOP OF PLANTING PIT BERM TO BE LEVEL ACROSS PIT, SLOPE OUTWARD FROM PIT AS NEEDED AS REQUIRED TO MEET EXISTING GRADE, MULCH OVER EXPOSED TOPSOIL.
5. FINISHED GRADE (SEE GRADING PLAN)
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES).
7. SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
8. FERTILIZER TABLETS (MAX 3" DEEP).
9. UNDISTURBED NATIVE SOIL.

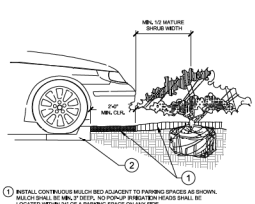
NOTES:
A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.
C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

5 L1.50 SHRUB/GROUNDCOVER PLANTING ON A SLOPE
SECTION NTS



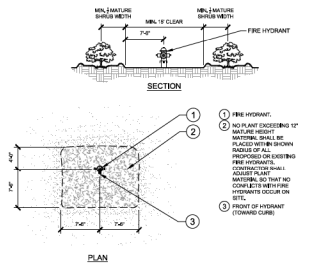
NOTES:
1. CLEAR ZONE: 36" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.
2. INSTALL SPECIFIED MULCH 24" MIN. FROM BUILDING. SPECIFIED MULCH TO BE INSTALLED AT A DEPTH OF 3" (MIN.)

6 L1.50 PLANTINGS ADJACENT TO BUILDINGS
SECTION NTS



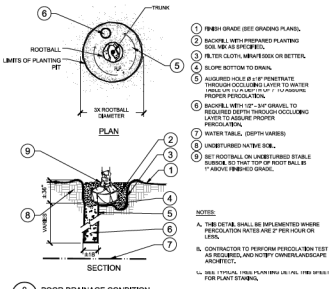
1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP, NO POP-UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE.
2. CURB / PARKING LOT EDGE.

7 L1.50 PARKING SPACE/CURB PLANTING
SECTION NTS



1. FIRE HYDRANT.
2. NO PLANT EXCEEDING 12" MATURE HEIGHT AT MATURITY, SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL VERIFY MATURE SIZE OF MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. FRONT OF HYDRANT (TOWARD CURB)

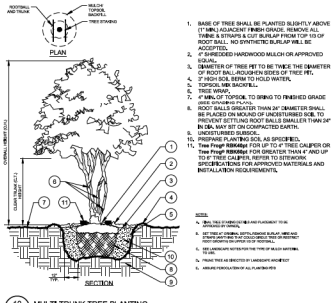
8 L1.50 SHRUB PLANTING AT FIRE HYDRANT
SECTION / PLAN NTS



1. FINISH GRADE (SEE GRADING PLANS).
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER.
4. SLOPE BOTTOM TO DRAIN.
5. AUGURED HOLE @ 6'-0" PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR 6'-0" MINIMUM TO ASSURE PROPER PERCOLATION.
6. BACKFILL WITH 12"-24" GRAVEL TO ENSURED DEPTH THROUGH OCCLUDING LAYER TO ASSURE PROPER PERCOLATION.
7. WATER TABLE, (DEPTH VARIES)
8. UNDISTURBED NATIVE SOIL.
9. SET ROOTBALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 1" ABOVE FINISHED GRADE.

NOTES:
A. THIS DETAIL SHALL BE IMPLEMENTED WHERE PERCOLATION RATES ARE 2" PER HOUR OR LESS.
B. CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED, AND NOTIFY OWNER/LANDSCAPE ARCHITECT.
C. MIN. TYPICAL TREE PLANTING DETAIL AND TREE STAKING FOR PLANT STAKING.

9 L1.50 POOR DRAINAGE CONDITION
SECTION / PLAN NTS



1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (1" MIN.) ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOT BALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 4" SHREDDED HARDWOOD MULCH OR APPROVED EQUAL.
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOT BALL (ROUGHEN SIDES OF TREE PIT).
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOP OF ROOT BALL.
6. SEE GRADE.
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
8. ROOT BALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOT BALLS SMALLER THAN 24" IN DIAMETER MAY BE SET ON COMPACTED EARTH.
9. UNDISTURBED SOIL.
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. Tree Frog® RBM48pi FOR UP TO 4" TREE CALIPER OR Tree Frog® RBM60pi FOR GREATER THAN 4" AND UP TO 8" TREE CALIPER, REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.

NOTES:
A. MIN. TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. SET TREE AT ORIGINAL SETTLEMENCE ELEVATION. REMOVE AND REPLACE TREE IF SETTLEMENT OCCURS OR RESTRICTS ROOT GROWTH (SEE UPPER 1/3 OF ROOTBALL).
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. ARBOR FERTILIZATION OF ALL PLANTINGS.

10 L1.50 MULTI-TRUNK TREE PLANTING
SECTION/PLAN NTS

Printed By: Hoss, Kelley Sheet Set: SR200 & HWY484 Layout: L1.50 October 17, 2025 10:17:32am K:\Jobs_Unit\249738000 – sr 200 & hwy 484 master infrastructure\CAD\CONST\plansheets\L1.00 – LANDSCAPE.dwg
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LICENSED PROFESSIONAL

KHA PROJECT 247738000
DATE 10/17/2025
SCALE AS SHOWN
DESIGNED BY KDG
DRAWN BY KDG
CHECKED BY NAA
DATE 10/17/2025

LANDSCAPE DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L1.50

GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.

3. THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT DESIGN STANDARDS, INDEX 600 (F. A DIRECT APPLICATION OF INDEX 600 IS PROPOSED, THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION, WHEN A DIRECT APPLICATION OF FDOT STANDARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A FLORIDA PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED A FDOT APPROVED TRAINING IN MAINTENANCE OF TRAFFIC. AS DEFINED BY FDOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION, THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UNDERGROUND FACILITIES SHOWN IN SUCH DATA. LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION, THE SAFETY AND PROTECTION THEREOF, REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK, THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

C. PROTECTION OF EXISTING PLANT MATERIALS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC., THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIPLINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DOLLARS ($300) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER, UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

2. PLANT MATERIALS

a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS. INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER, WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTED TREE IN ITS NORMAL POSITION. TO BE ESTABLISHED IN A WAY THAT DOES NOT PENALIZE TREE BRANCHING GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER, IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:

2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNERS REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

a. TOPSOIL TO BE USED IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER. REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER, TREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.5.

b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.

c. SOIL AMENDMENT (IF NEEDED PER SOIL TESTING) THE CONTRACTOR SHALL FURNISH AND INSTALL A 3" LAYER OF AMENDED PLANTING SOIL IN ALL PLANTING BEDS, EXCLUDING SOD AREAS. THE AMENDED PLANTING SOIL SHALL BE COMPOSED OF 35% FERTILOAM (5% FLORIDA PEAT 45% SANDY LOAM). THE AMENDED PLANTING SOIL SHALL BE MIXED INTO THE BEDS UPON PLANTING.

3. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING (SUBMIT SOIL TESTING RESULTS AFTER INCORPORATING AMENDMENTS TO DEMONSTRATE COMPLIANCE WITH SOIL QUALITY REQUIREMENTS.

F. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MANMADE ELEMENTS DETRIMENTAL TO PLANTS, WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.,. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOD, TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE, SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-ACQUIRED,

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). MULCH SHALL BE "FLORIMULCH" EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.

2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (IF MINIMUM) PLANTED UNDER THIS CONTRACT.

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER(S). CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.

4. RPGI- "ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF MATERIALS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR, QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS, BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH, CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS, REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK, THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL, SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC, (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL, CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS WITH SUITABLE PLANTING SOIL MIXTURE AS SPECIFIED HEREIN. IF NATIVE SOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE, IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER SUBGRADE EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTING AT THE NURSERY OR GROWING SITE.

5. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE, UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS, AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE. IF PERCOLATION IS UNFAVORABLE, NO ALLOWANCE WILL BE MADE FOR ADDITIONAL EXCAVATION OF PITS OR FOR BACKFILLING WITH SPECIAL MIXTURES TO ASSURE PROPER DRAINAGE. ALL PLANTS SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING BY SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE, EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT, PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHEAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHEAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES. STRIKING IF NECESSARY TO GET SOIL THOROUGHLY WET, PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE, DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

13. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNERS REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT PRUNE OF SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING SHALL BE PERFORMED BY EXPERIENCED WORKMEN IN ACCORDANCE WITH HIGH STANDARDS.

14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON PLANS, WHICHEVER IS GREATER, CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6". REMOVE AND DISPOSE ALL DISPLACED TOP 4" THS PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E, THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO ENSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION, IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK, IF DIRECTED BY THE OWNER, "ROUNDUP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS, PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER, (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE SOD SHALL BE LAID TO FINISH GRADE. THE FINISH SURFACE SHALL BE SMOOTH AND FREE OF DEPRESSIONS NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH, DURING THE ROLLING. ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

3. PREPARE LOOSE BED FOUR (4) INCHES DEEP, HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED, WET PREPARED AREA THOROUGHLY.

4. SODDING

a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

c. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS ADJACENT TO BUILDINGS. A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED, IMMEDIATELY FOLLOWING SOD LAYING. THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY WINDSATED, IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN, FERTILIZER INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE

a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND REGROOMING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE, PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER, OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

S. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT, ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

T. WARRANTY

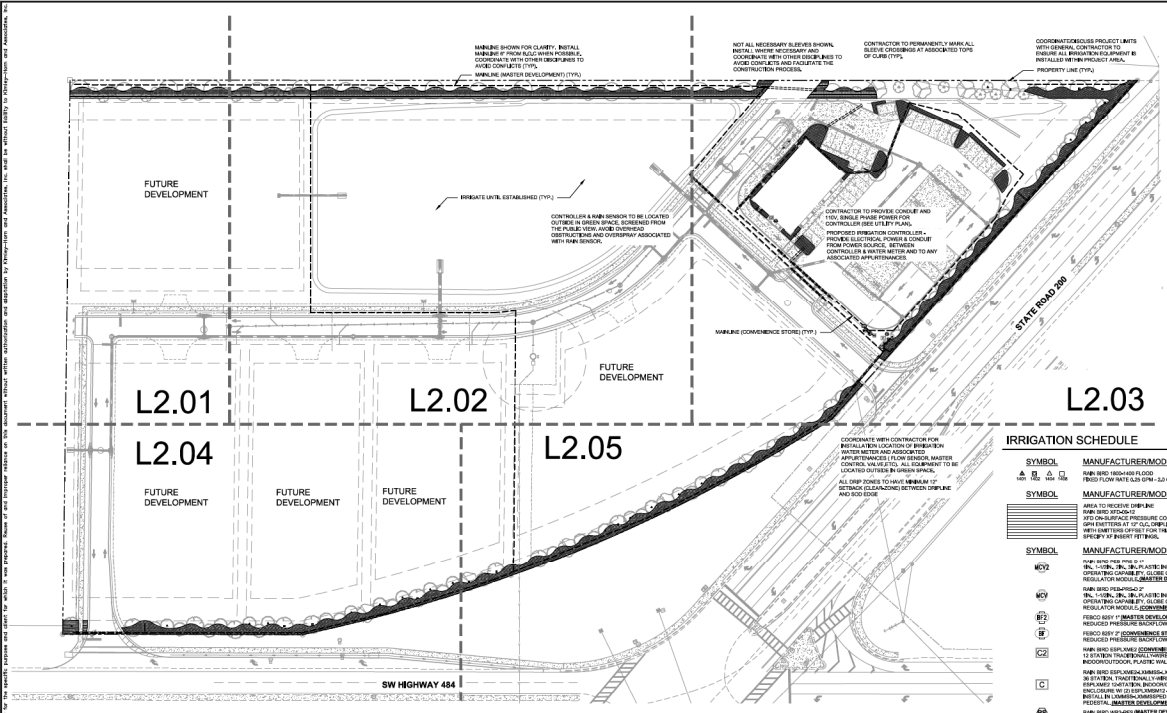
1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE PROJECT SITE INCLUDING BUT NOT LIMITED TO WATERING OF PLANTS, MOWING OF LAWNS, TRIMMING, PRUNING, FERTILIZING, WEEDING, SPRAYING OF PESTICIDES, FUNGICIDES AND HERBICIDES, FROM CONSTRUCTION START THROUGH ORIGINAL FINAL PROJECT ACCEPTANCE.

4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHALL VISIT THE PROJECT SITE PERIODICALLY DURING THE SAID (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

1 L1.51 TYPICAL LANDSCAPE SPECIFICATIONS (FLORIDA)



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
1401 1502 1404 1506	RAIN BIRD 1804/1400 FLOOD FIXED FLOW RATE (LO) GPM - 2.0 GPM, FULL CIRCLE BUBBLER, 10Ft. / 3Mt.,	28

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDAS-12 XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE, 0.9 GPH EMITTERS, 12" SPACING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, UV RESISTANT, SPECIFY 18" INSERT FITTINGS.	25,121 LF

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
MCV2	RAIN BIRD PEB-PRS-D 2" 1IN., 1-1/2IN., 2IN., 3IN.,4IN. PLASTIC INDUSTRIAL MASTER VALVES. LOW FLOW OPERATING CAPABILITY. GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE. **(MASTER DEVELOPMENT)**	1
MCV	RAIN BIRD PEB-PRS-D 2" 1IN., 1-1/2IN., 2IN., 3IN.,4IN. PLASTIC INDUSTRIAL MASTER VALVES. LOW FLOW OPERATING CAPABILITY. GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE. **(CONVENIENCE STORE)**	1
BF2	FEBCO 825Y 1" **(MASTER DEVELOPMENT)** REDUCED PRESSURE BACKFLOW PREVENTER	1
BF	FEBCO 825Y 2" **(CONVENIENCE STORE)** REDUCED PRESSURE BACKFLOW PREVENTER	1
IC2	RAIN BIRD ESPLXME2 **(CONVENIENCE STORE)** 12 STATION TRADITIONAL(WALL MOUNT), COMMERCIAL CONTROLLER, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE.	1
C	RAIN BIRD ESPLXMEM,XMMSPED,XMMSPED W/ (3) ESPLXMSM12 12-STATION MODULES, ESPLXME2 12 STATION BASE CONTROLLER, (1) ESPLXMEX 12STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (2) ESPLXMSM12 + 12STATION EXPANSION MODULES, INSTALL IN LXMMEM,XMMSPED STAINLESS STEEL CABINET W/ PEDESTAL **(MASTER DEVELOPMENT)**	1
RS	RAIN BIRD WRS-RFH **(MASTER DEVELOPMENT)** WIRELESS RAIN/FREEZE SENSOR.	1
RS2	RAIN BIRD WRS-RFH **(CONVENIENCE STORE)** WIRELESS RAIN/FREEZE SENSOR.	1
FS	RAIN BIRD FS-150-P **(MASTER DEVELOPMENT)** 1" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL AND ESP-LX0 CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL. SUGGESTED OPERATING RANGE OF 5.0 GPM TO 150.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1
FS2	RAIN BIRD FS-150-P **(CONVENIENCE STORE)** 1" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL AND ESP-LX0 CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL. SUGGESTED OPERATING RANGE OF 5.0 GPM TO 150.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1
M	WATER METER 2" MASTER DEVELOPMENT	1
M2	WATER METER 2" CONVENIENCE STORE	1
	IRRIGATION MAINLINE: PVC SCHEDULE 40	4,382 LF
	PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS	139.6 LF
	PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE	369.5 LF

FLOW TOTALS
Area for Dripline: 378sf
Bubbler: 0sf
Total: 378sf @ 6 GPM

NOTE: IF SOURCE TO BE RECLAIMED (NON-POTABLE) ALL EQUIPMENT TO BE INDICATED AS SUCH AND PURPLE IN COLOR. FOLLOW ALL LOCAL JURISDICTION STANDARDS FOR RECLAIMED IRRIGATION SYSTEMS.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.

GRAPHIC SCALE IN FEET
0 25 50 100

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IRRIGATION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, ETC. PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
3. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
5. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
6. CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE WILL NOT ALLOW SYSTEM MODIFICATION TO BE POSSIBLE.
7. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
8. WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
9. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
10. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
11. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNER'S REPRESENTATIVE.
12. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
13. CONTRACTOR TO PROVIDE PERMANENT BENCH-MARKS ON ALL CURB LINES AT RELATED SLEEVE LOCATIONS (TYP.).
14. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE ROOT DISTURBANCE IN EXISTING TREES.
15. IRRIGATION SPRAYS AND ROTORS ARE NOT COMBINED ON THE SAME CONTROL VALVE CIRCUIT - LANDSCAPE BEDS AND TURF ON SEPARATE CIRCUITS.

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LICENSED PROFESSIONAL
DATE 10/17/2025

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DATE 10/17/2025
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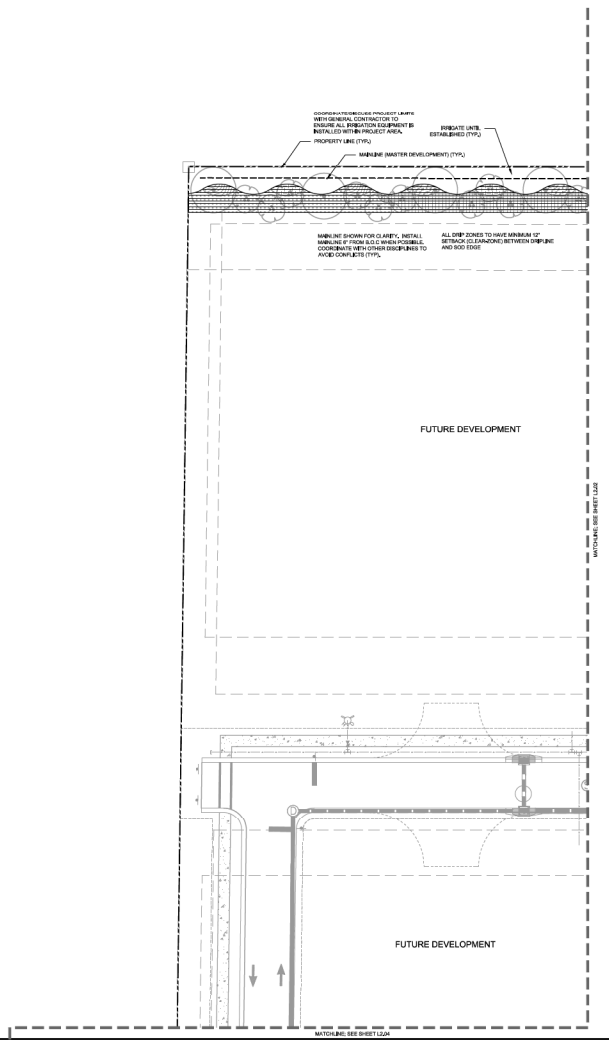
OVERALL IRRIGATION PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE

MARION COUNTY FLORIDA

SHEET NUMBER
L2.00

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IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL
1401 1402 1404 1408	RAIN BIRD 1806/1400 FLOOD

SYMBOL	MANUFACTURER/MODEL
	AREA TO RECEIVE DRIPLINE
	RAIN BIRD XFD-06-12

SYMBOL	MANUFACTURER/MODEL
MCV2	RAIN BIRD PESHRS-D 1" (MASTER DEVELOPMENT)
MCV	RAIN BIRD PESHRS-D 2" (CONVENIENCE STORE)
FS1	FISCO 8251 1" (MASTER DEVELOPMENT)
FS2	FISCO 8251 2" (CONVENIENCE STORE)
C2	RAIN BIRD ESPLXME2 (MASTER DEVELOPMENT)
C	RAIN BIRD ESPLXME2/LXMMS6-LXMMSSPED WI (2) ESPL (CONVENIENCE STORE)
RS	RAIN BIRD WSHSFS (MASTER DEVELOPMENT)
RS2	RAIN BIRD WSHSFS (CONVENIENCE STORE)
FS	RAIN BIRD FS-150-F (MASTER DEVELOPMENT)
FS2	RAIN BIRD FS-150-F (CONVENIENCE STORE)
M	WATER METER 2" (MASTER DEVELOPMENT)
M2	WATER METER 2" (CONVENIENCE STORE)

IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS

PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE

NORTH

GRAPHIC SCALE IN FEET
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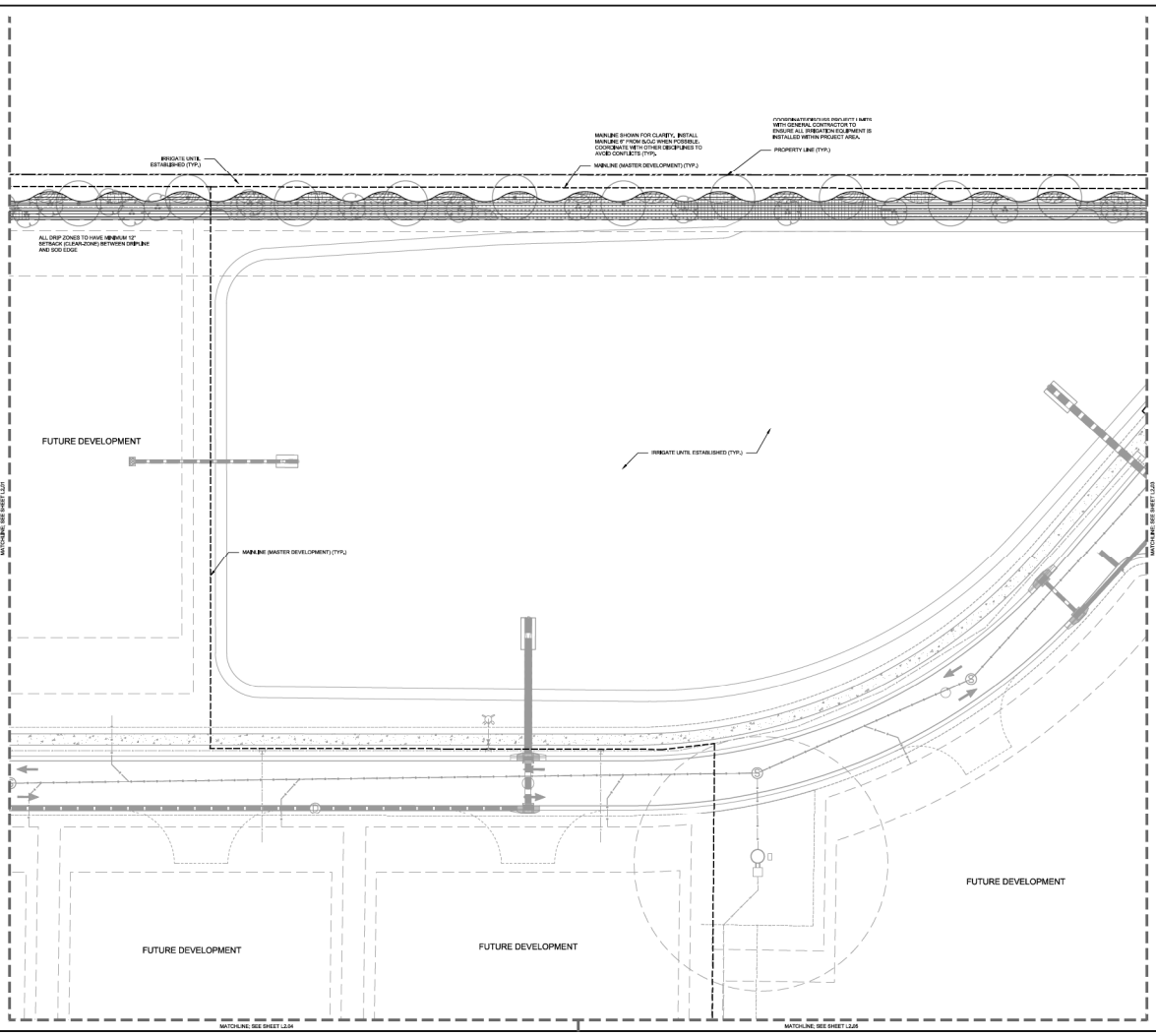
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CHECKED BY NAA DATE 10/17/2025

IRRIGATION PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE

MARION COUNTY FLORIDA

SHEET NUMBER
L2.01



IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL
1401 1402 1404 1406	RAIN BIRD 1806/1400 FLOOD

SYMBOL	MANUFACTURER/MODEL
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-06-12

SYMBOL	MANUFACTURER/MODEL
MCV2	RAIN BIRD PESHRS-D 1" (MASTER DEVELOPMENT)
MCV	RAIN BIRD PESHRS-D 2" (CONVENIENCE STORE)
(M1)	FEBCO 825Y 1" (MASTER DEVELOPMENT)
(M2)	FEBCO 825Y 2" (CONVENIENCE STORE)
C2	RAIN BIRD ESPLXME2 (MASTER DEVELOPMENT)
C	RAIN BIRD ESPLXMED,XMMS6-LXMMSSPED W/ (2) ESPL (CONVENIENCE STORE)
RS	RAIN BIRD WRSHRS (MASTER DEVELOPMENT)
RS2	RAIN BIRD WRSHRS (CONVENIENCE STORE)
FS	RAIN BIRD FS-100-F (MASTER DEVELOPMENT)
FS2	RAIN BIRD FS-150-F (CONVENIENCE STORE)
M	WATER METER 2" (MASTER DEVELOPMENT)
M2	WATER METER 3" (STORMWATER STORE)
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS
	PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE

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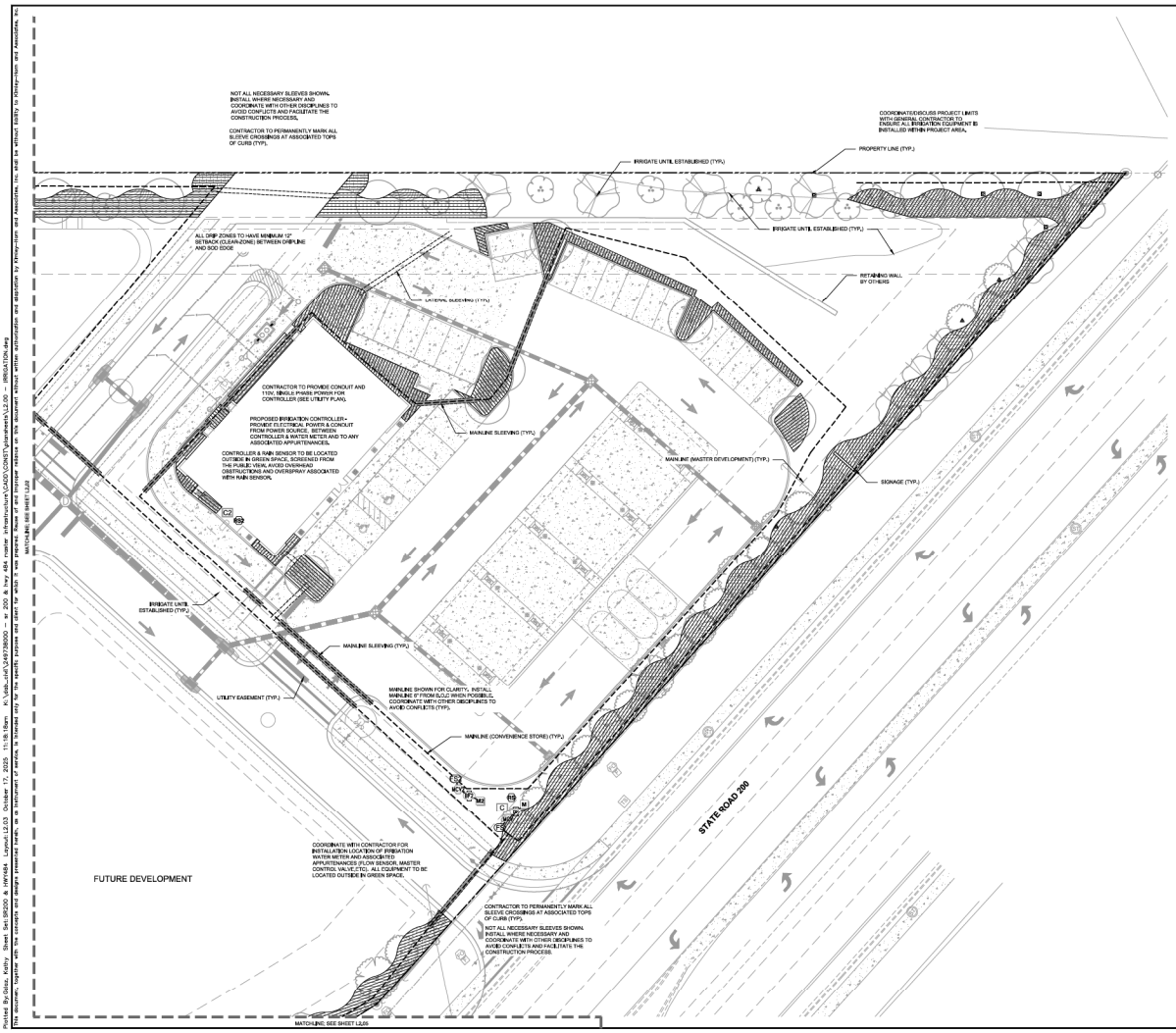
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DATE	10/17/2025

IRRIGATION PLAN

SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L2.02

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IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL
1401 1402 1404 1408	RAIN BIRD 1806/1400 FLOOD

SYMBOL	MANUFACTURER/MODEL
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-06-12

SYMBOL	MANUFACTURER/MODEL
MCV2	RAIN BIRD PEB-PRS-D 1" (MASTER DEVELOPMENT)
MCV	RAIN BIRD PEB-PRS-D 2" (CONVENIENCE STORE)
FB2	FEBCO 825Y 1" (MASTER DEVELOPMENT)
FB	FEBCO 825Y 2" (CONVENIENCE STORE)
C2	RAIN BIRD ESPLXME2 (MASTER DEVELOPMENT)
C	RAIN BIRD ESPLXME2,XMMS4-LXMMSS4-LXMMSPED WI (2) ESPLXME2 (CONVENIENCE STORE)
R9	RAIN BIRD WR2-RFS (MASTER DEVELOPMENT)
R9.2	RAIN BIRD WR2-RFS (CONVENIENCE STORE)
FS	RAIN BIRD FS-150-F (MASTER DEVELOPMENT)
FS2	RAIN BIRD FS-150-F (CONVENIENCE STORE)
M	WATER METER 2" (MASTER DEVELOPMENT)
M2	WATER METER 2" (CONVENIENCE STORE)

IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS

PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE

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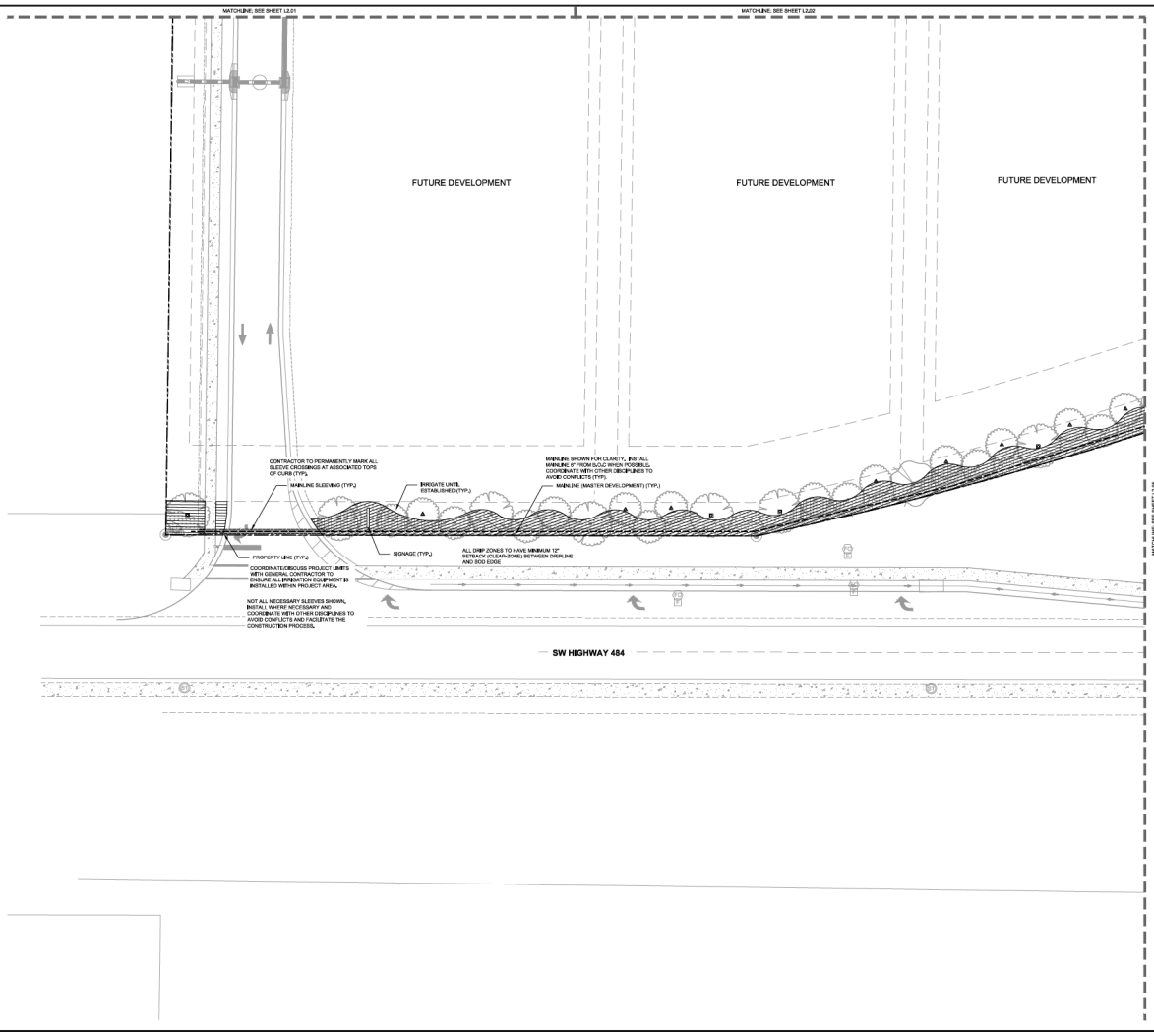
IRRIGATION PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE

MARION COUNTY FLORIDA

SHEET NUMBER
L2.03

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IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL
1401 1402 1404 1408	RAIN BIRD 1800/1400 FLOOD

SYMBOL	MANUFACTURER/MODEL
	AREA TO RECEIVE DRIPLINE
	RAIN BIRD XFD-09-12

SYMBOL	MANUFACTURER/MODEL
MCV2	RAIN BIRD PEB-PRS-D 1" (MASTER DEVELOPMENT)
MCV	RAIN BIRD PEB-PRS-D 2" (CONVENIENCE STORE)
(RFS)	FISCO 8051 1" (MASTER DEVELOPMENT)
(RFS2)	FISCO 8051 2" (CONVENIENCE STORE)
C2	RAIN BIRD ESPLXME2 (MASTER DEVELOPMENT)
C	RAIN BIRD ESPLXME2LXMMS6-LXMMSSPED WI (2) ESPL (CONVENIENCE STORE)
RS	RAIN BIRD WSHSFS (MASTER DEVELOPMENT)
RS2	RAIN BIRD WSHSFS (CONVENIENCE STORE)
FS	RAIN BIRD FS-150-F (MASTER DEVELOPMENT)
FS2	RAIN BIRD FS-150-F (CONVENIENCE STORE)
M	WATER METER 1" (MASTER DEVELOPMENT)
M2	WATER METER 2" (CONVENIENCE STORE)
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS
	PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE

NORTH

GRAPHIC SCALE IN FEET
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DRAWN BY	KDG
CHECKED BY	NAA

DATE: 10/17/2025

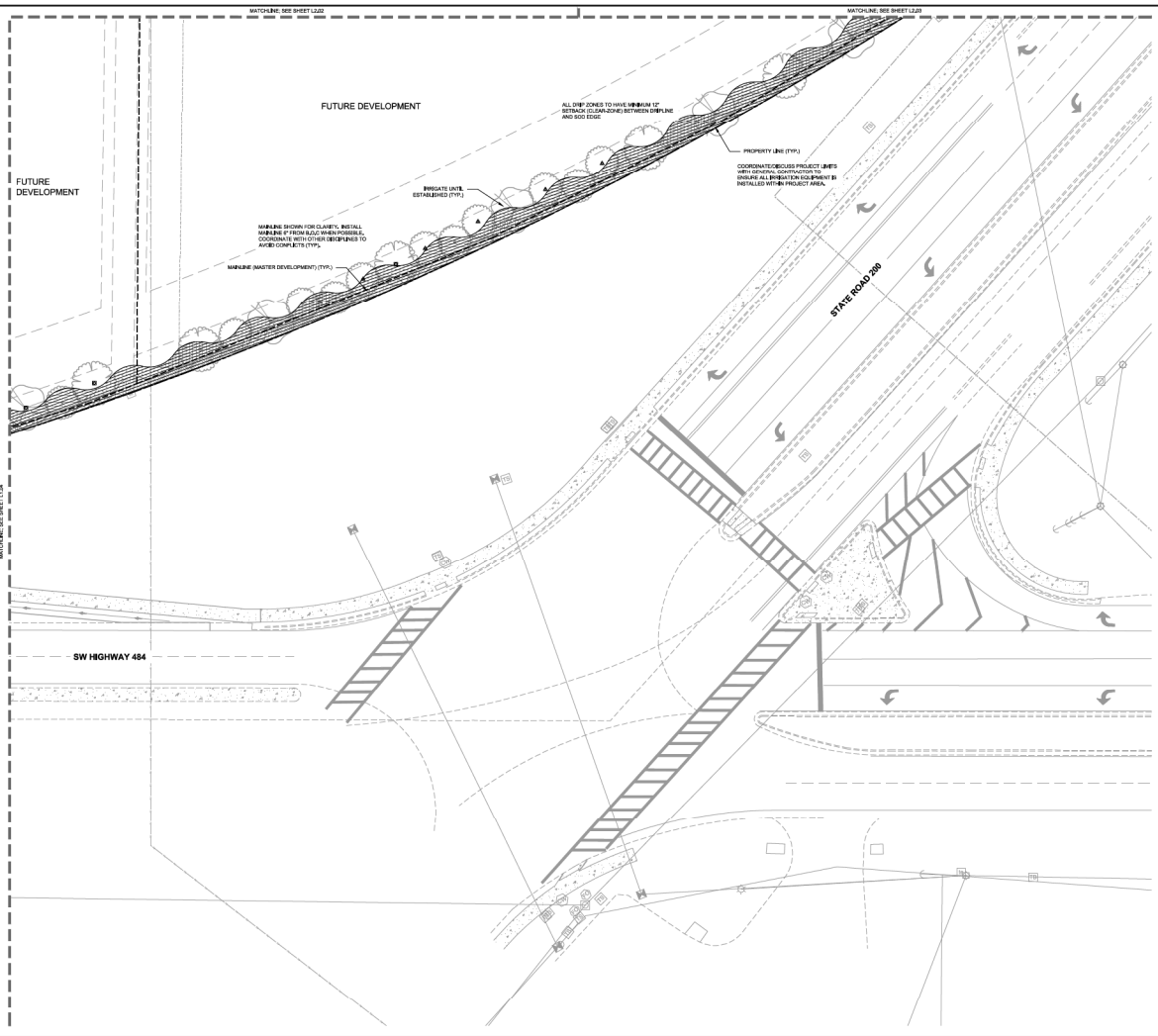
IRRIGATION PLAN

SR 200 & HWY 484 MASTER INFRASTRUCTURE

MARION COUNTY FLORIDA

SHEET NUMBER
L2.04

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IRRIGATION KEY

SYMBOL	MANUFACTURER/MODEL
1401 1402 1404 1406	RAIN BIRD 1806/1400 FLOOD

SYMBOL	MANUFACTURER/MODEL
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFD-06-12

SYMBOL	MANUFACTURER/MODEL
MCV2	RAIN BIRD PEB-PRS-D 1" (MASTER DEVELOPMENT)
MCV	RAIN BIRD PEB-PRS-D 2" (CONVENIENCE STORE)
PEB	FISCO 8051 1" (MASTER DEVELOPMENT)
PEB	FISCO 8051 2" (CONVENIENCE STORE)
C2	RAIN BIRD ESPLXME2 (MASTER DEVELOPMENT)
C	RAIN BIRD ESPLXME2LXMMSS-LXMMSSPED W/ (2) ESPL (CONVENIENCE STORE)
RB	RAIN BIRD WSHSFS (MASTER DEVELOPMENT)
RB2	RAIN BIRD WSHSFS (CONVENIENCE STORE)
FS	RAIN BIRD FS-150-F (MASTER DEVELOPMENT)
FS2	RAIN BIRD FS-150-F (CONVENIENCE STORE)
M	WATER METER 1" (MASTER DEVELOPMENT)
M2	WATER METER 2" (STAR/MARKATE STAR)
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40 - LATERALS
	PIPE SLEEVE: PVC SCHEDULE 40 - MAINLINE

NORTH

GRAPHIC SCALE IN FEET
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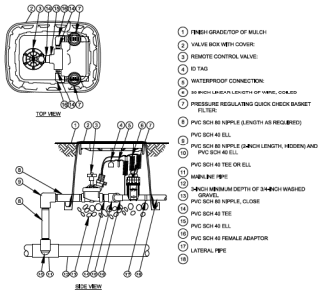
KHA PROJECT 247738000
DATE 10/17/2025
SCALE AS SHOWN
DESIGNED BY KDG
DRAWN BY KDG
CHECKED BY NAA
LICENSED PROFESSIONAL
DATE 10/17/2025

IRRIGATION PLAN

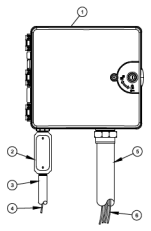
SR 200 & HWY 484
MASTER
INFRASTRUCTURE
MARION COUNTY FLORIDA

SHEET NUMBER
L2.05

Plotted By:Hess, Kelley Sheet Set:SR200 & HWY484 Layout:L2.05 October 17, 2025 11:18:23am K:\Ldp_Jax\247738000 – sr 200 & hwy 484 master infrastructure\CAD\CIVIL\planesets\L2.00 – IRRIGATION.dwg
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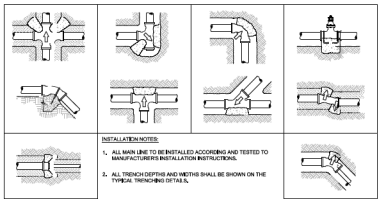


1 L2.50 SECTION / PLAN — COMMERCIAL CONTROL DRIP ZONE VALVE KIT — NTS



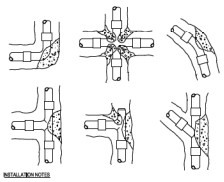
NOTES:
1. FOR BASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

2 L2.50 ELEVATION — TYPICAL CONTROLLER — NTS



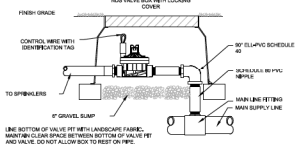
INSTALLATION NOTES:
1. ALL MAIN LINE TO BE INSTALLED ACCORDING AND TESTED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL TRENCH DEPTHS AND WIDTHS SHALL BE SHOWN ON THE TYPICAL TRENCHING DETAILS.

3 L2.50 SECTION — TYPICAL THRUST BLOCK — NTS

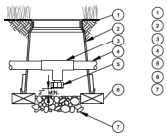


INSTALLATION NOTES
1. 3000 PSI CONCRETE OR SETTER'S TO BE USED FOR THRUST BLOCKS.
2. FOR 45°/90° FITTINGS, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR BASE FITTINGS, MINIMUM OF 2.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR TEES, MINIMUM OF 3 CUBIC FEET OF CONCRETE TO BE USED, THRUST BLOCKS REQUIRED FOR IRRIGATION MAINLINE 2 1/2" AND LARGER.

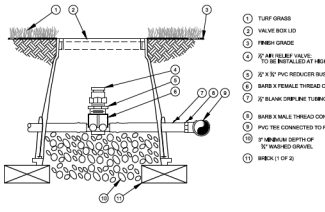
4 L2.50 SECTION — THRUST BLOCK REINFORCEMENT — NTS



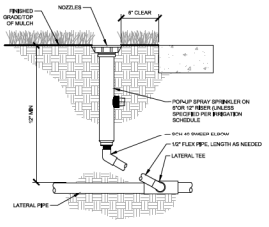
5 L2.50 SECTION — TYPICAL CONTROL VALVE — NTS



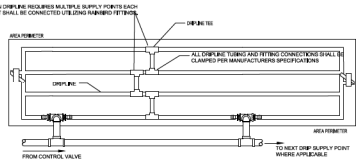
6 L2.50 SECTION — DRAIN VALVE — NTS



7 L2.50 SECTION — AIR RELIEF VALVE IN XFS DRIP LINE — NTS



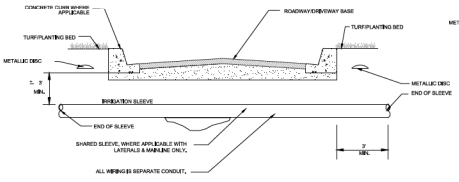
8 L2.50 SECTION — TYPICAL IRRIGATION HEAD — NTS



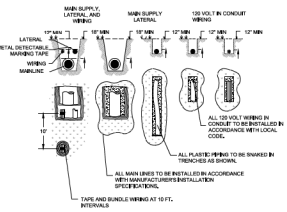
CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS.IF NOT SHOWN, INSTALL WITHIN ADJACENT GREEN AREA NOT IN A HIGHLY VISIBLE AREA.

NOTE:
1. DRIP TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 18 INCHES.
2. DRIP TUBING TO BE INSTALLED IN A GRID PATTERN. DRIP TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.
3. CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS (IF SHOWN).

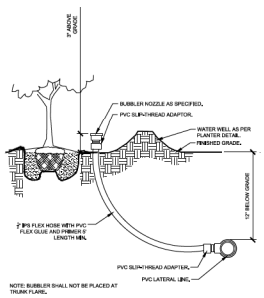
9 L2.50 PLAN — TYPICAL DRIP LINE — NTS



10 L2.50 SECTION — TYPICAL SLEEVING — NTS



11 L2.50 SECTION / PLAN — TYPICAL TRENCHING — NTS



NOTE: BUBBLER SHALL NOT BE PLACED AT TRUNK FLARE.

12 L2.50 SECTION — TYPICAL BUBBLER — NTS

No.	REVISIONS	DATE	BY

Kimley»Horn

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PHONE: 407-898-1511
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10/17/2025

KHA PROJECT 247738000
DATE 10/17/2025
SCALE AS SHOWN
DESIGNED BY KDG
DRAWN BY KDG
CHECKED BY NAA

IRRIGATION DETAILS

SR 200 & HWY 484 MASTER INFRASTRUCTURE

MARION COUNTY FLORIDA

SHEET NUMBER L2.50

Plotted By:Hoss, Kathy Sheet Set:SR200 & HWY484 Layout:L2.50 October 17, 2025 11:18:23am K:\Ldp_Jax\247738000 — sr 200 & hwy 484 master infrastructure\CAD\CONST\plansets\L2.50 — IRRIGATION.dwg
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IRRIGATION SYSTEM NOTES:

1. THE IRRIGATION MAINLINE LAYOUT IS DIAGRAMMATIC. ANY CHANGES MADE IN THE IRRIGATION MAINLINE DUE TO FIELD CONDITIONS OR CONTRACTOR'S SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
2. SET SPRAY HEADS 6" AND ROTORS 12" IN FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.
4. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLLER FOR PROPOSED SYSTEM (NO BATTERY OPERATED CONTROLLERS ALLOWED). COORDINATE LOCATION WITH OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AUTOMATIC RAIN SENSOR. COORDINATE LOCATION W/ OWNER.
6. IRRIGATION SHALL NOT BE COMBINED ON A SINGLE ZONE AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEM'S AVAILABLE WATER / PRESSURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION.
7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
8. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
9. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
10. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
11. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
12. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.

PRE-APPROVED MANUFACTURERS:
1. TORO
2. HUNTER
3. RAINBIRD

13. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF STONES/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.
15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
17. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
18. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC SLEEVES. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
19. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB", LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW," THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
21. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
22. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET, AS FOLLOWS:
    CONTROL WIRES - #14
    COMMON WIRES - #14
23. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS:
    - RECTANGULAR 12"X17" HEAVY DUTY BOX, (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
24. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY, (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
25. HTADS. LATERALS. EMITTERS. AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.
26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 2'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES, BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES, AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
28. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE, IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.9 GPH EMITTERS, 12" O.C. WITH 12" LINE SPACING AT A MINIMUM.
29. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL DECODERS SHALL BE GROUNDED EVERY 1,000 L.F. OR EVERY 10 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500' REELS AND SPLICING SHALL BE MINIMIZED. SURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION SYSTEM CONTROL SHALL BE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURERS REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY. STATION SPECIFICATIONS AND INTEGRATED SURGE PROTECTION.
30. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1-2" ELECTRICAL CONDUIT.
31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".
32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.26" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.
33. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES. DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.
34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
35. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DENOTED ON THE LANDSCAPE PLAN.
36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.
37. IRRIGATION SOURCE TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER. IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
38. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION SERVICE SHALL COMPLY WITH ALL APPLICABLE CODES.
39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION. VERIFY WITH LOCAL JURISDICTION.
40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

1 / L2.51 TYPICAL SCHEMATIC IRRIGATION NOTES

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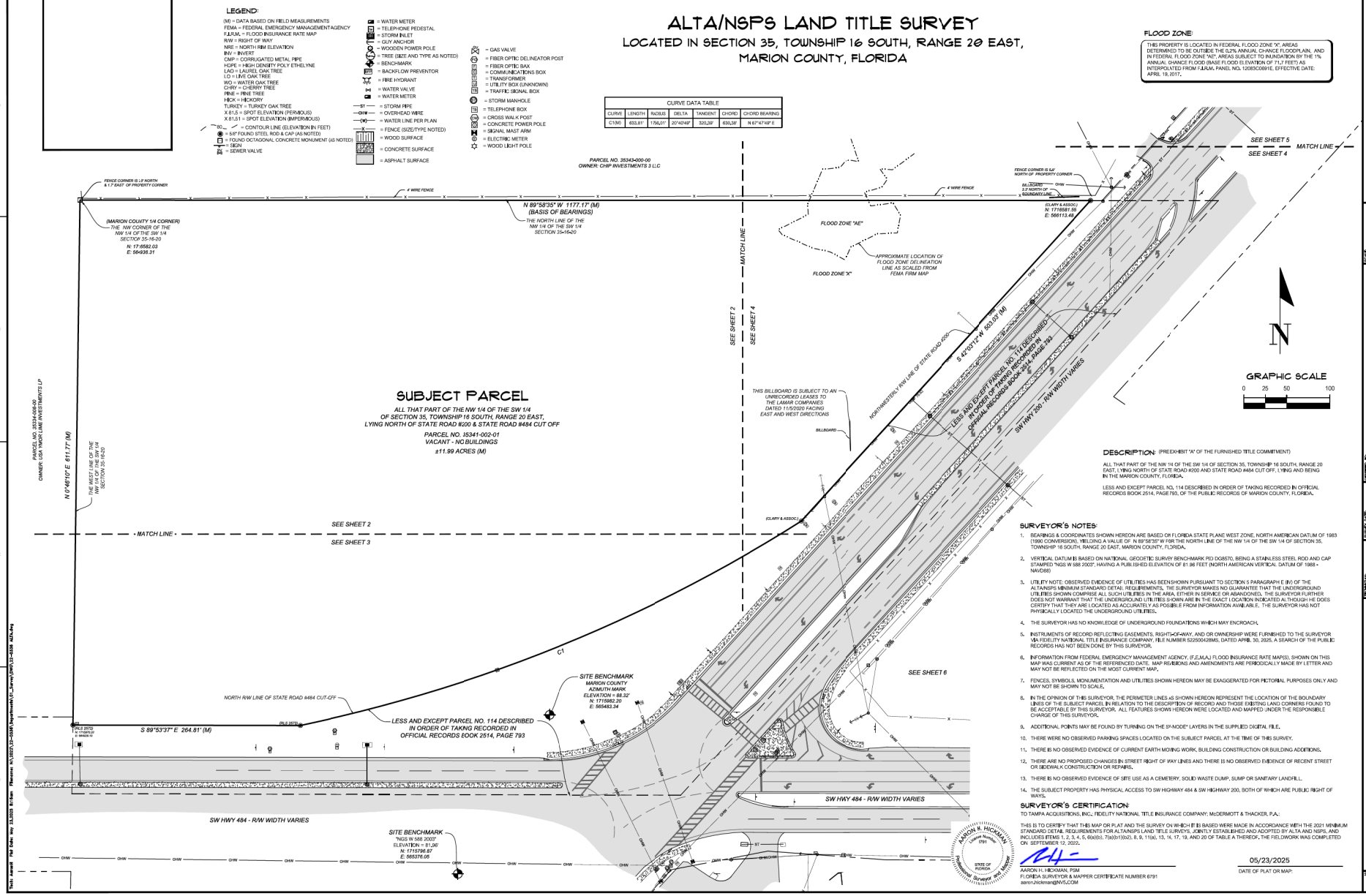
SR 200 & HWY 484 MASTER INFRASTRUCTURE
MARION COUNTY FLORIDA

IRRIGATION NOTES

SHEET NUMBER
L2.51

ALTA/NSPS LAND TITLE SURVEY

LOCATED IN SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST, MARION COUNTY, FLORIDA



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(352)331-1976
www.JNV5.com
LB-6246

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SCALE: 1" = 50'
NOTE: SCALE SHOWN IS CORRECT ON ORIGINAL DRAWING AT THE STATED SCALE. SCALE ACCORDINGLY.

SEE SURVEYOR'S CERTIFICATE

REVISED: 03/13/2024, UPDATED CERTIFICATIONS
REVISED: 05/21/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 05/20/2025, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT

SURVEY DATE: 9/7/2022
FIELD CREW: AWH
OFFICE CREW: MWD
DRAWN BY: MWD
CHECKED BY: AHH
APPROVED BY: AHH
FIELD BOOK & PAGE: 6931/940 & 6950/145
PROJECT NUMBER: 22-0336

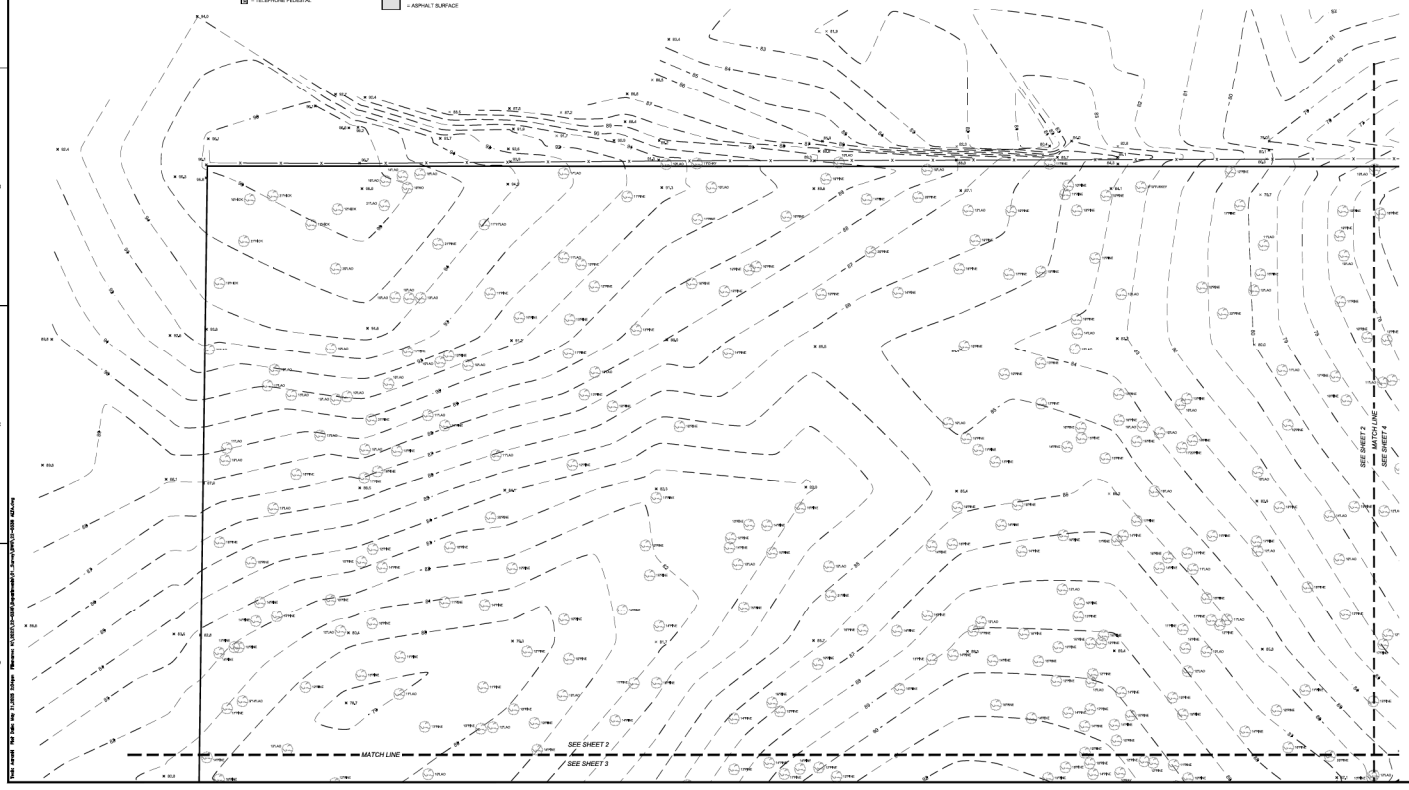
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AARON H. HICKMAN
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Professional Surveyor & Mapper (PSM) License No. 6791

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SHEET NO.
1 OF 6

ALTA/NSPS LAND TITLE SURVEY

LOCATED IN SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST, MARION COUNTY, FLORIDA



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NIVIS

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Alachua, Florida 32615
(352)283-2378
www.NIVIS.com
LB-6248

SCALE: 1" = 30'

SURVEYOR'S CERTIFICATE

SEE SURVEYORS CERTIFICATE

REVISED: 03/13/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 05/15/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 05/30/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT

DRAWN BY:

DATE OF FIELD WORK: 5/13/2022

SURVEY DATE: 05/13/2022

DRAWING NO.: 22-0336

SURVEY FOR: PETITION TO VACATE

ADDRESS: NW 44TH AVE

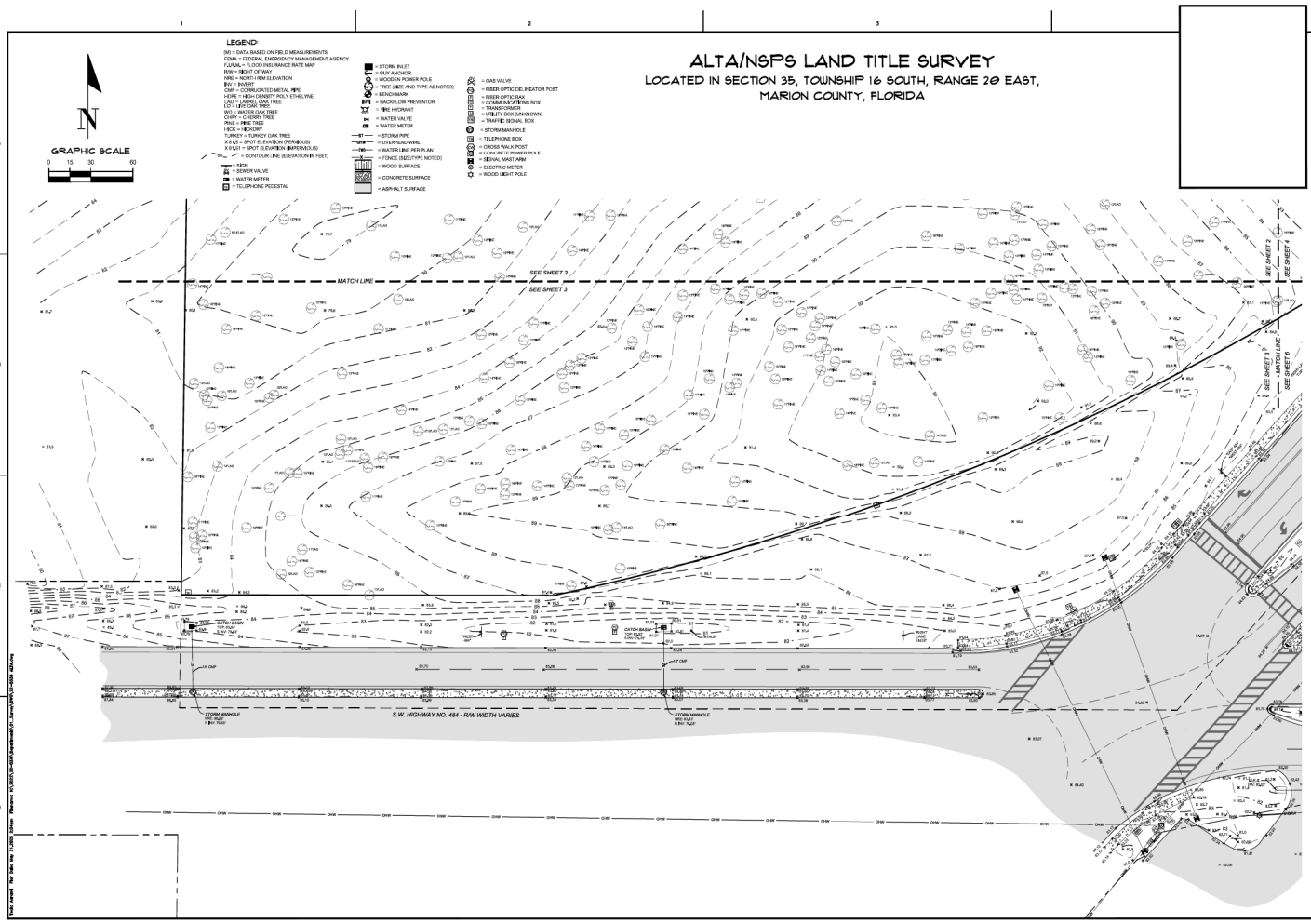
CITY, STATE: OCALA, FLORIDA

OWNER: MARION COUNTY

SHEET NO.: 2 OF 6

ALTA/NSPS LAND TITLE SURVEY

LOCATED IN SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST,
MARION COUNTY, FLORIDA



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SCALE: 1" = 30'

FIELD WORK DATE: 9/7/2022

DRAWN BY: JMC

CHECKED BY: AHH

DRAWING DATE: 10/07/2024

PROJECT NO.: 22-0336

REVISED: 02/13/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 05/15/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 09/19/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT

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BOUNDARY & TOPO SURVEY
ALTA/NSPS LAND TITLE SURVEY

This map prepared by:

AARON H. HICKMAN

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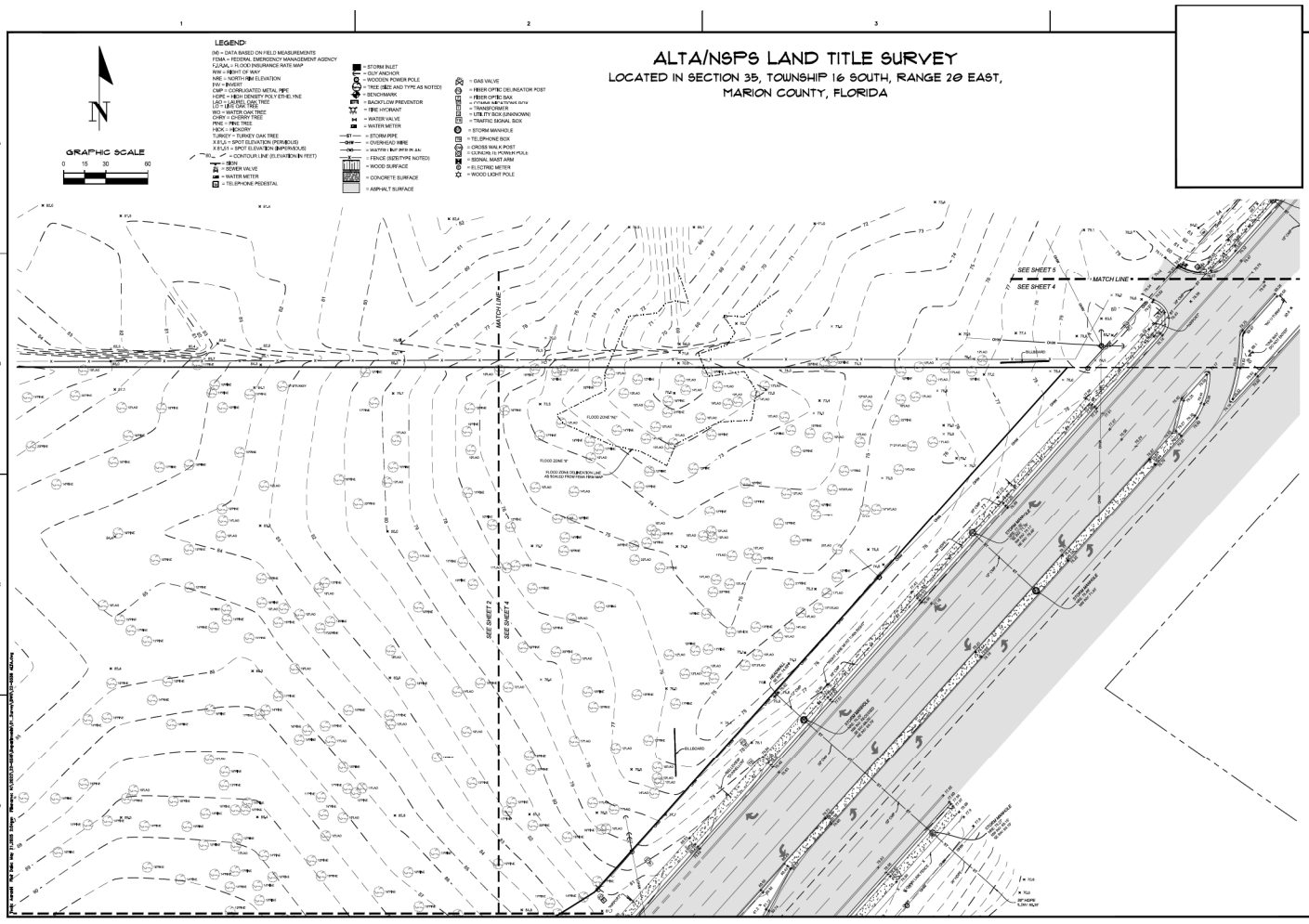
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SHEET #: 3 OF 6

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MARION COUNTY, FLORIDA



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(352)293-0978
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LB-6946

NVI5

SCALE: 1" = 30'

DRAWN BY: AM, MB

CHECKED BY: AM, MB

DATE: 9/2/2022

SURVEY DATE: 8/31/2022

REVISED: 10/13/2024, UPDATED CERTIFICATIONS
REVISED: 05/07/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 03/06/2023, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT

SEE SURVEYORS CERTIFICATE

JOB NO: 22-0336

SURVEYOR'S NOTES:

SEE SURVEYORS CERTIFICATE

This map prepared by:

AARON N. HICKMAN

Certificate of Authorization No. LB 6946
DOES NOT INCLUDE ELEVATIONS UNLESS
SPECIFICALLY STATED OTHERWISE.
DIGITAL SIGNATURE OF A FLORIDA
LICENSED SURVEYOR AND MAPPER.

SHEET NO: 4 OF 6

ALTA/NSPS LAND TITLE SURVEY

LOCATED IN SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST, MARION COUNTY, FLORIDA

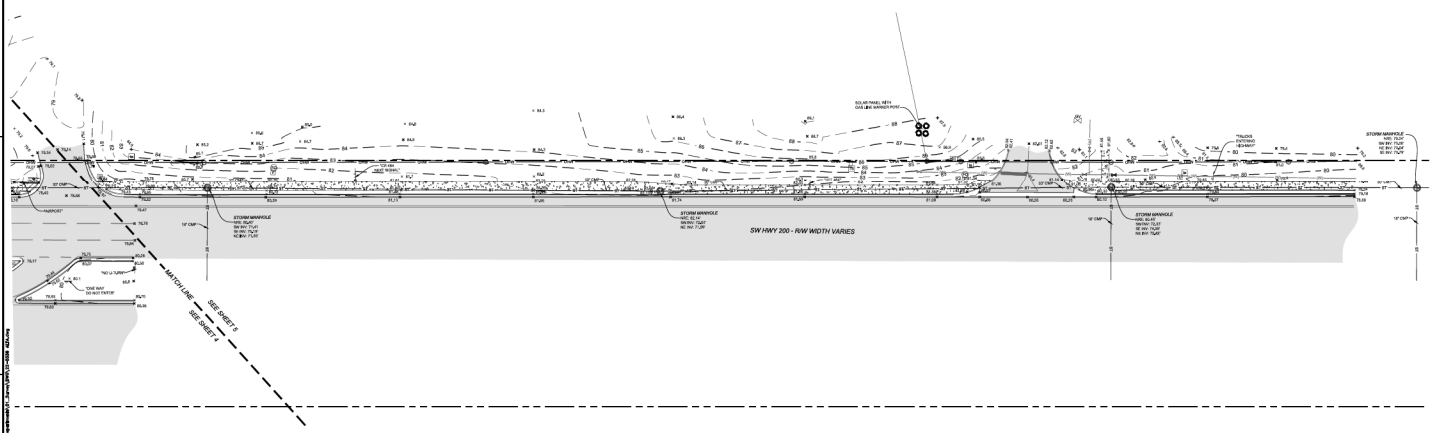
GRAPHIC SCALE
0 15 30 60

LEGEND

(M) = DATA MARKED ON PLAT AND MEASURED
FEMA = FEDERAL EMERGENCY MANAGEMENT AGENCY
F.I.R.M. = FLOOD INSURANCE RATE MAP
R/W = RIGHT OF WAY
NAVD = NORTH AMERICAN VERTICAL DATUM
INV = INVERT ELEVATION
CMP = CORRUGATED METAL PIPE
HDPE = HIGH DENSITY POLY ETHELYNE
LAO = LAUREL OAK TREE
LO = LIVE OAK TREE
WO = WATER OAK TREE
CHRY = CHERRY TREE
PINE = PINE TREE
HICK = HICKORY
TURKEY = TURKEY OAK TREE
X 61.5 = SPOT ELEVATION (PERVIOUS)
X 61.51 = SPOT ELEVATION (IMPERVIOUS)
61 = CONTOUR LINE (ELEVATION IN FEET)
= STORM PIPE
= OVERHEAD WIRE
= WATER LINE PER PLAN
= FENCE (SIZE/TYPE NOTED)
= WOOD SURFACE
= CONCRETE SURFACE
= ASPHALT SURFACE

= 5/8" FOUND STEEL ROD & CAP (AS NOTED)
= FOUND 4"X4" CONCRETE MONUMENT (AS NOTED)
= SIGN
= SEWER VALVE
= WATER METER
= TELEPHONE PEDESTAL
= STORM INLET
= GUY ANCHOR
= WOODEN POWER POLE
= TREE (SIZE AND TYPE AS NOTED)
= BENCHMARK
= BACKFLOW PREVENTOR
= FIRE HYDRANT
= WATER VALVE
= WATER METER
= GAS VALVE
= RISER OPTIC DELINEATOR POST
= FIBER OPTIC BOX
= COMMUNICATIONS BOX
= TRANSFORMER
= UTILITY BOX (UNKNOWN)
= TRAFFIC SIGNAL BOX

= STORM MANHOLE
= ILLUMINATING BOX
= CROSS WALK POST
= CONCRETE POWER POLE
= SIGNAL MAST ARM
= ELECTRIC METER
= WOOD LIGHT POLE



LS001 Research Drive
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(352)333-4378
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LB4546

NIV5

SCALE: 1" = 30'

SURVEYOR'S CERTIFICATE

REVISED: 03/13/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 05/15/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT

DRAWN BY:

DATE OF FIELD WORK: 9/13/2022
DRAWN DATE: 03/01/2024
CHECKED DATE: 03/01/2024
PROJECT #: 22-0336

SURVEYOR & MAPPER: AARON H. HICKMAN
FIELD CREW: MWC
DRAWN BY: MWC
CHECKED BY: AHH

This map prepared by:
AARON H. HICKMAN
SEE SURVEYOR'S CERTIFICATE

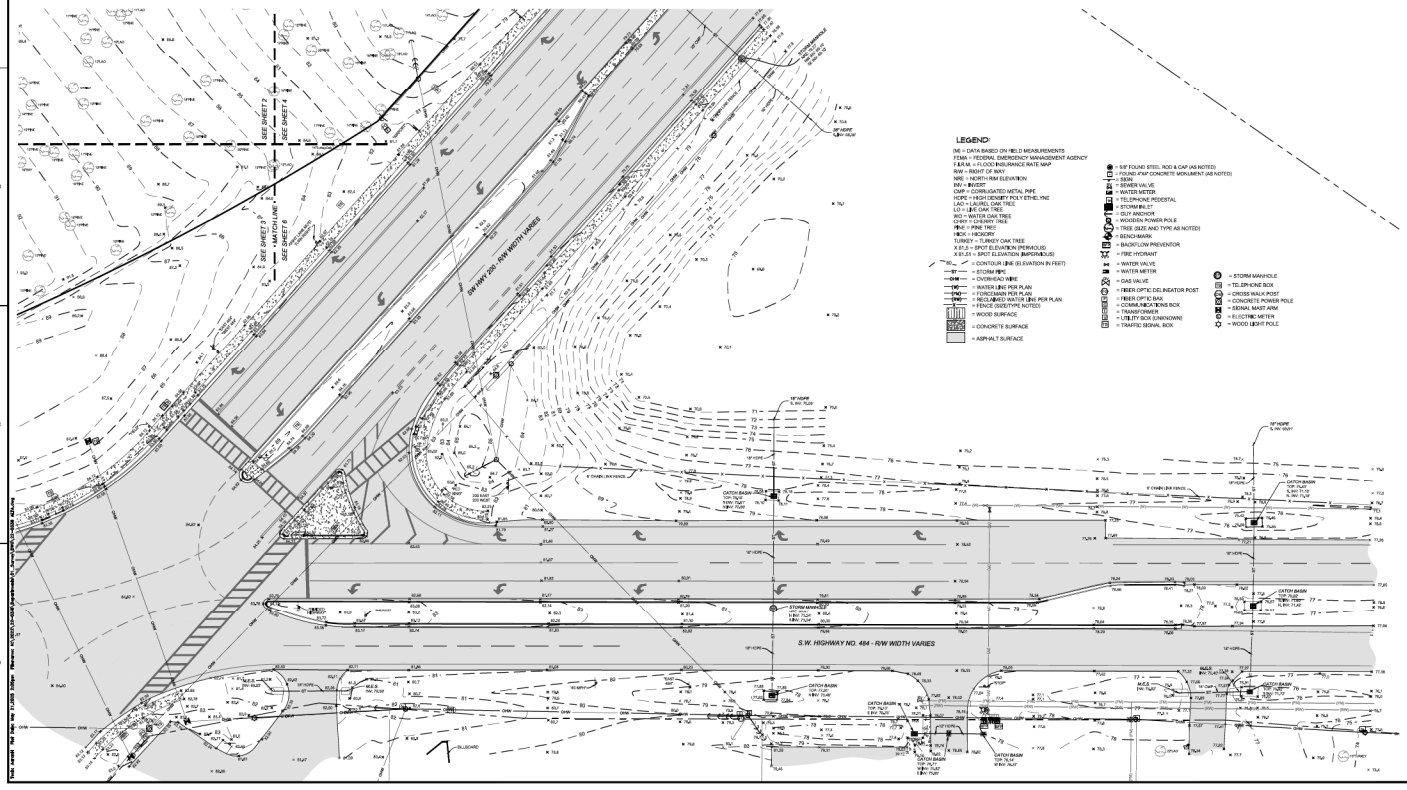
Certificate of Authorization No. LB 4546
"NOT VALID WITHOUT THE ORIGINAL SIGNATURE OF A FLORIDA LICENSED SURVEYOR AND MAPPER."

Professional Surveyor & Mapper No. License No. LS 6747

SHEET #: 5 OF 6

ALTA/NSPS LAND TITLE SURVEY

LOCATED IN SECTION 35, TOWNSHIP 16 SOUTH, RANGE 20 EAST,
MARION COUNTY, FLORIDA



15101 Research Drive
Austin, Texas 78728
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LB-4246

NIV5

SCALE: 1" = 30'

DRAWN BY: MW, TJM
CHECKED BY: AHP, MW
APPROVED BY: AHP, MW

DATE OF FIELD WORK: 9/13/2022

SURVEY DATE: 09/13/2022
REVISED: 10/31/2022
REVISED: 12/13/2022
REVISED: 02/01/2024
REVISED: 03/01/2024

JOB NO. 22-0336

SEE SURVEYORS CERTIFICATE

REVISED: 02/01/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT
REVISED: 03/01/2024, UPDATED CERTIFICATIONS & NEW TITLE COMMITMENT

BOUNDARY & TOPOGRAPHIC SURVEY

SURVEYOR'S NOTES:
1. BEARINGS ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83), FLORIDA EAST ZONE, AS DERIVED FROM GPS OBSERVATIONS.
2. THE PURPOSE OF THIS SURVEY IS TO DEPICT THE BOUNDARY AND TOPOGRAPHY OF THE SUBJECT PROPERTY.
3. THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 12083C0230E, EFFECTIVE DATE 8/28/2008.
4. THE SUBJECT PROPERTY CONTAINS 1,000,000 SQUARE FEET OR 22.96 ACRES, MORE OR LESS.
5. THE SUBJECT PROPERTY HAS DIRECT ACCESS TO SW HWY 200 AND S.W. HIGHWAY NO. 484, PUBLIC RIGHTS-OF-WAY.
6. THERE ARE NO OBSERVED ENCROACHMENTS ONTO THE SUBJECT PROPERTY.
7. THERE ARE NO OBSERVED ENCROACHMENTS FROM THE SUBJECT PROPERTY.
8. THERE ARE NO OBSERVED EVIDENCE OF CEMETERIES ON THE SUBJECT PROPERTY.
9. THERE ARE NO OBSERVED EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
10. THERE ARE NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
11. THERE ARE NO OBSERVED EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.
12. THERE ARE NO OBSERVED EVIDENCE OF WETLAND DELINEATION MARKERS.
13. THERE ARE NO OBSERVED EVIDENCE OF WATER BODIES OR WATERCOURSES.
14. THERE ARE NO OBSERVED EVIDENCE OF CHANGES IN STREET RIGHT OF WAY LINES.
15. THERE ARE NO OBSERVED EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.

SHEET NO.
6 OF 6

This map prepared by:
AARON H. HICKMAN
SEE SURVEYORS CERTIFICATE
Professional Surveyor & Mapper No. License No. LS 7077

Certificate of Authorization No. LB 4246
SHOT HEIGHT ACCURACY: THE CERTIFICATE OF AUTHORIZATION NUMBER OF THE BUSINESS ENTITY OFFERING DIGITAL SERVICES OR A COPY THEREOF SHALL BE SHOWN ON ALL MAPS.