



APOPKA DEVELOPMENT REVIEW COMMITTEE AGENDA

March 4, 2026 9:00 AM

Apopka City Hall Council Chambers

SITE PLAN:

CONSTRUCTION SITE PLAN

1. **CSP-25-37 - Wyld Oaks Lot 7 Access Roads - Construction Site Plan (CSP), 2nd Submittal**
Owner(s): Kelly Park VB Development LLC
Applicant(s): Kimley-Horn and Associates LLC - Mackenzie Cerjan
Location: Effie Dr PID:13-20-27-9480-07-000
Proposed Use: Approximately 900 LF of Access Road
Project Manager: Jean Sanchez
2. **CSP-25-42 - 4203 Hogshead - Construction Site Plan (CSP), 2nd Submittal**
Owner(s): Charles McNulty
Applicant(s): Ritter Civil LLC - Garth Ritter
Location: 1203 Hogshead Road
Proposed Use: Construct 30,724 SF Warehouse Building and Outdoor Storage Yard
Project Manager: Jean Sanchez
3. **CSP-26-9 - Apopka Phase 4 Soccer Fields (NW Complex) - Construction Site Plan (CSP), 1st Submittal**
Owner(s): City of Apopka
Applicant(s): CPH Consulting LLC - Joshua Hughes
Location: 3910 Jason Dwelley Parkway
Proposed Use: Six New Soccer Pads
Project Manager: Bobby Howell
4. **CSP-26-4 - Apopka Veterinary Clinic - Construction Site Plan (CSP), 1st Submittal**
Owner(s): 132 W Main Street LLC
Applicant(s): Chatelain Engineering - Gregory Chatelain, PE
Location: 132 West Main Street
Proposed Use: Renovation and Expansion of Existing Veterinary Clinic
Project Manager: Amer Hamza

MAJOR DEVELOPMENT PLAN

1. **MDP-25-11 - Sheeler Park MDP (fka 1920 Sheeler Avenue) - Major Development Plan (MDP), 3rd Submittal**
Owner(s): Marvin Reid, Susan Reid
Applicant(s): Poulos & Bennett LLC, Marc Stehli
Location: 1920 Sheeler Avenue, Sheeler Avenue PID: 22-21-28-0000-00-227
Proposed Use: 115 Single Family Residential Lots
Project Manager: Jun Sohn

VACATION OF ROW/EASEMENT

1. **VAC-26-1 1112 Schopke Lester Road - Vacation of Row/Easement (VAC), 1st Submittal**
Owner(s): Nancy I Pilat Living Trust
Applicant(s): Lowndes-Law - Kathryn Johnson
Location: 1112 Schopke Lester Road

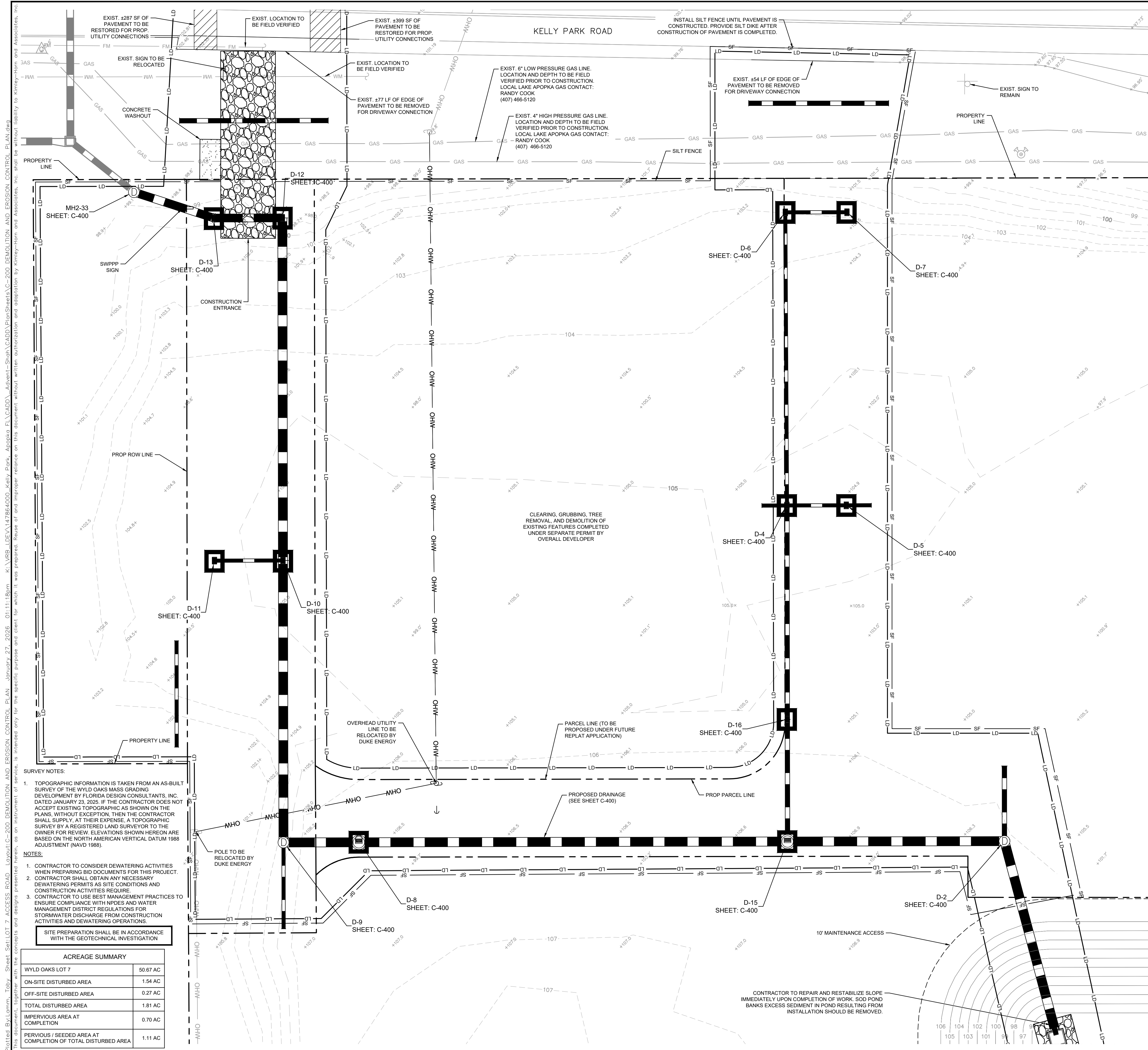
Proposed Use: Vacation of Right-of-Way
Project Manager: Bobby Howell

DISCUSSION

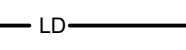
ADJOURNMENT

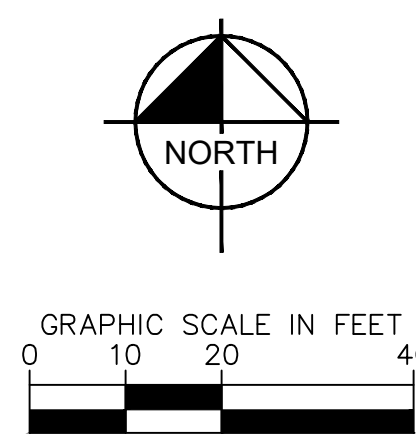
Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least two (2) working days in advance of the meeting date and time at (407) 703-1704. F.S. 286.0105 If a person decides to appeal any decision or recommendation made by Council with respect to any matter considered at this meeting, he will need record of the proceedings, and that for such purposes he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Any opening invocation that is offered before the official start of the Council meeting shall be the voluntary offering of a private person, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views of such speaker. Persons in attendance at the City Council meeting are invited to stand during the opening ceremony. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Council Chambers or exit the City Council Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance.



ACREAGE SUMMARY	
WYLD OAKS LOT 7	50.67 AC
ON-SITE DISTURBED AREA	1.54 AC
OFF-SITE DISTURBED AREA	0.27 AC
TOTAL DISTURBED AREA	1.81 AC
IMPERVIOUS AREA AT COMPLETION	0.70 AC
PERVIOUS / SEEDED AREA AT COMPLETION OF TOTAL DISTURBED AREA	1.11 AC

<u>LEGEND</u>	
	PROPERTY LINE
	WM ——— EXISTING WATERMAIN
	SS ——— EXISTING SANITARY SEWER
	PROPOSED DRAINAGE
	FM ——— EXISTING FORCE MAIN
	R/W ——— EXISTING RECLAIMED WATER
	OHW ——— EXISTING OVERHEAD WIRE
	LD ——— LIMITS OF DISTURBANCE
	SF ——— SILT FENCE
	SD ——— SILT DIKE
	SWPPP INFORMATION SIGN
	CONSTRUCTION EXIT
	INLET PROTECTION



SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOISE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

- PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION EXIT (1) AND INSTALL SILT FENCE.
 2. INSTALL INLET PROTECTION AT EXISTING INLET(S).
 3. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET TRAPS, RISER PIPE DISCHARGE POINT, ETC.)
 4. PREPARE CLEARING AND GRUBBING OF THE SITE IF, APPLICABLE.

HALT ALL ACTIVITIES AND CONTACT THE CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPs. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH CONSULTANT AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

- PHASE 2:
5. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
 6. START CONSTRUCTION OF ROAD.
 7. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.

CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING
ALL DEWATERING PERMITS NECESSARY FOR
CONSTRUCTION

MAINTENANCE

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY
2. SHOW SIGNS OF UNDERMINING OR DETRIORATION.
3. 1. SEEDING AREAS SHALL BE MAINTAINED TO INSURE THAT A GOOD STAND IS
4. MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
5. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.
6. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF
7. THE HEIGHT OF THE SILT FENCE.
8. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT
9. TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE
10. PERIODIC TOP DRESSING OF THE EXITS WITH TOP DRESSING MATERIALS.
11. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION
12. (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING
13. OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

DEMOLITION NOTES:

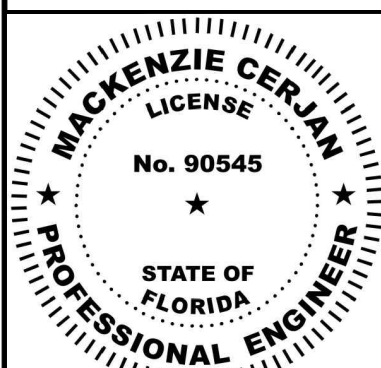
- THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCOMPASS THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
2. THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
3. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION PERMITS.
4. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
5. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
6. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
7. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
8. DEWATERING SHOULD BE ANTICIPATED AND INCLUDED.
9. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
10. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE PROTECTED IN PAVEMENT REMOVAL AREAS. CONTRACTOR SHALL REPLACE DAMAGED STRUCTURES AT THEIR EXPENSE.
11. CONTRACTOR SHALL INSTALL A CONTINUOUS SCREENED CONSTRUCTION FENCING ALONG PROJECT BOUNDARY.
12. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS APPROVED BY CITY OF APOPKA AND CONSTRUCTION MANAGER.
13. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW FACILITIES. SIGNAGE SHALL BE POSTED TO DIRECT THE PUBLIC TO THE PATH OF TRAVEL.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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Kimley»»Horn



KHA PROJECT 147864000	DATE 05/01/2025	SCALE AS SHOWN	DESIGNED BY MDA	DRAWN BY MRM	CHECKED BY MRC
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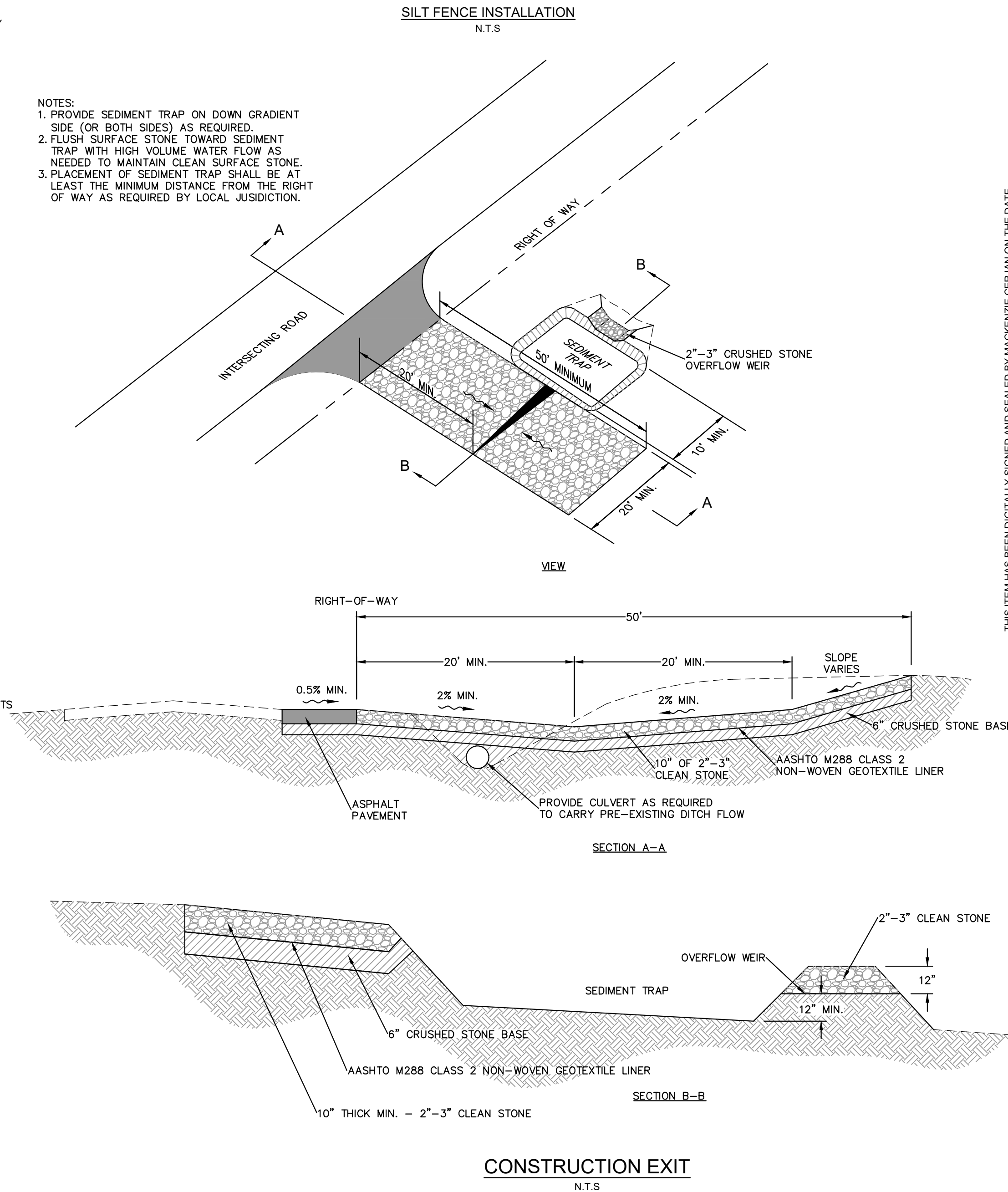
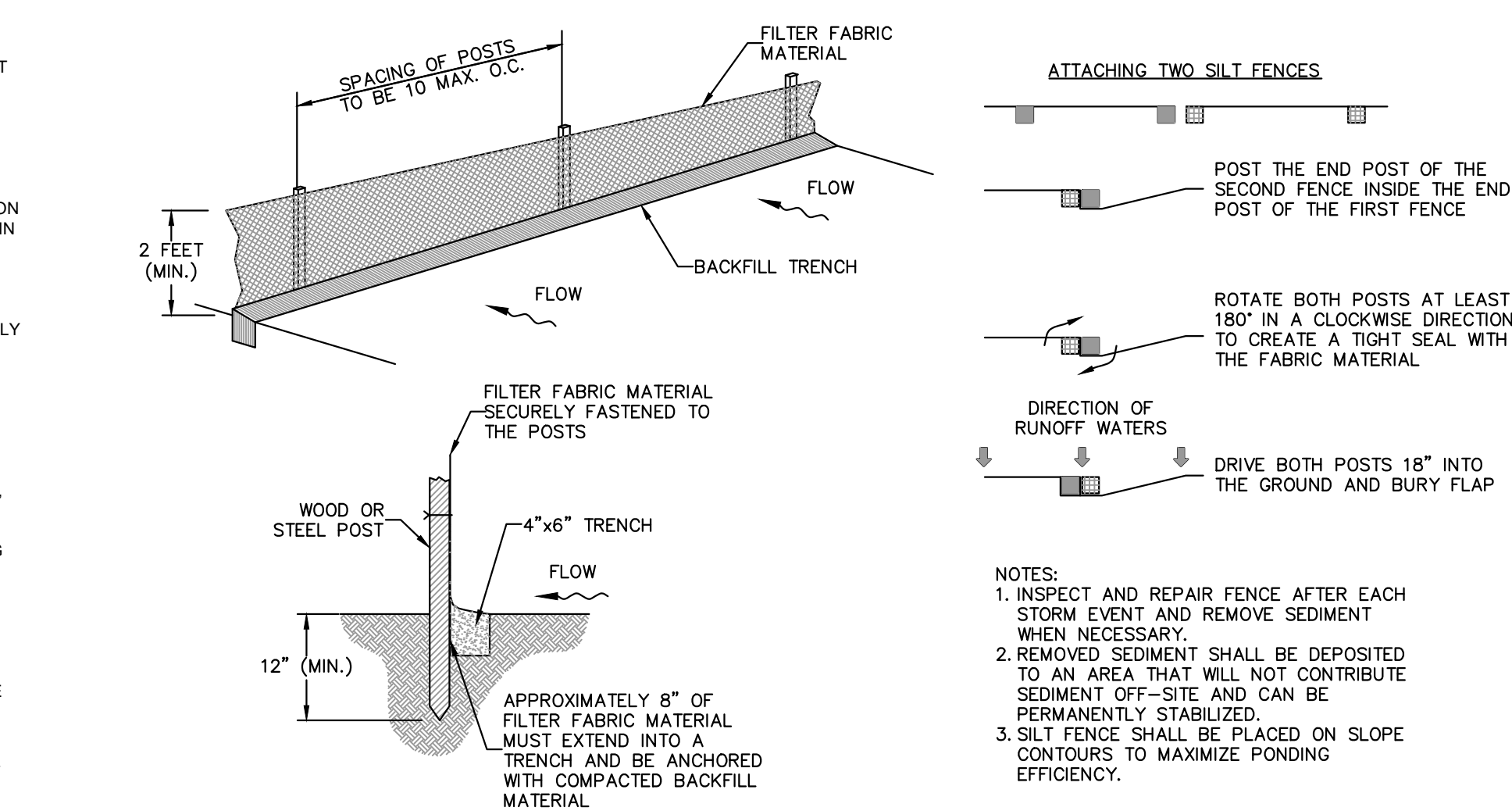
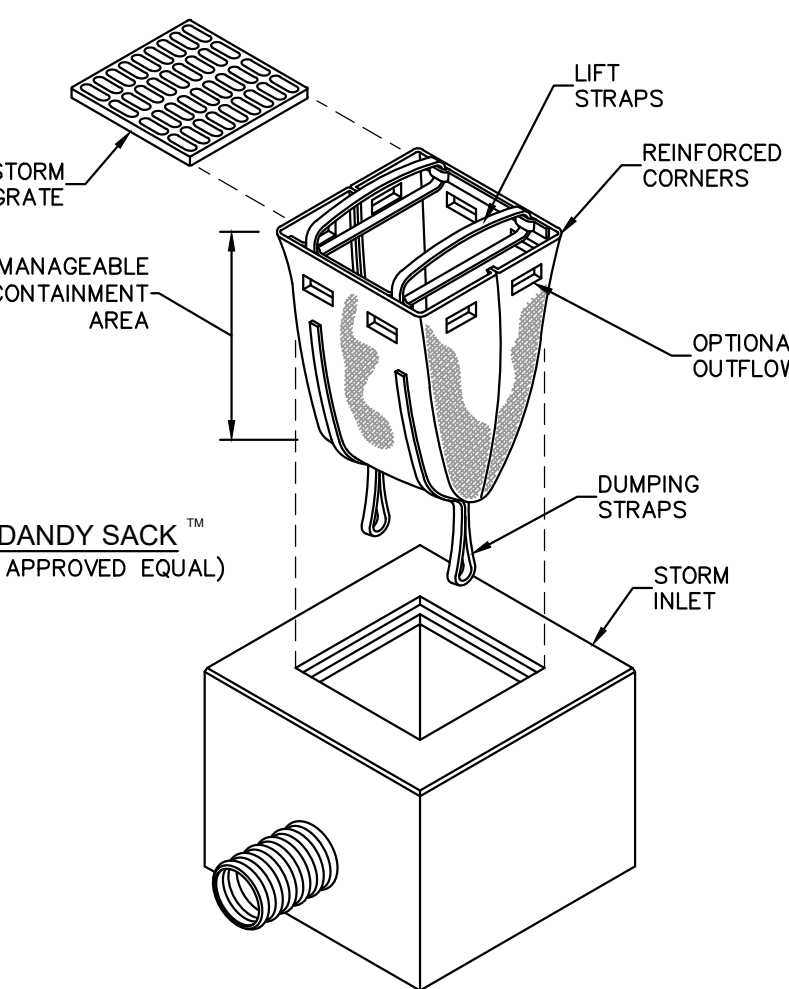
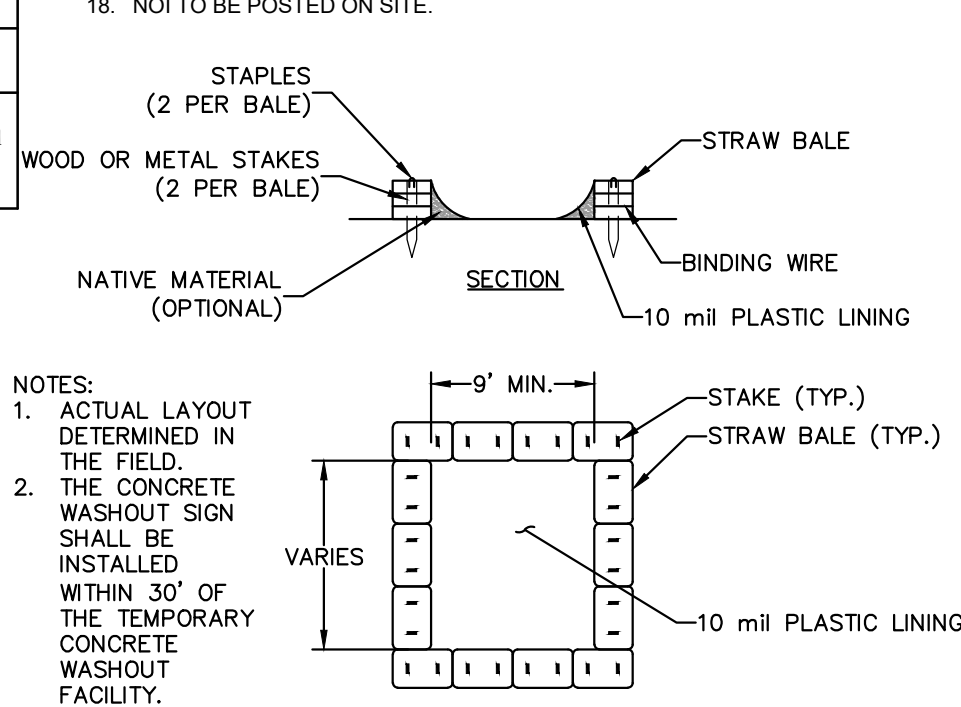
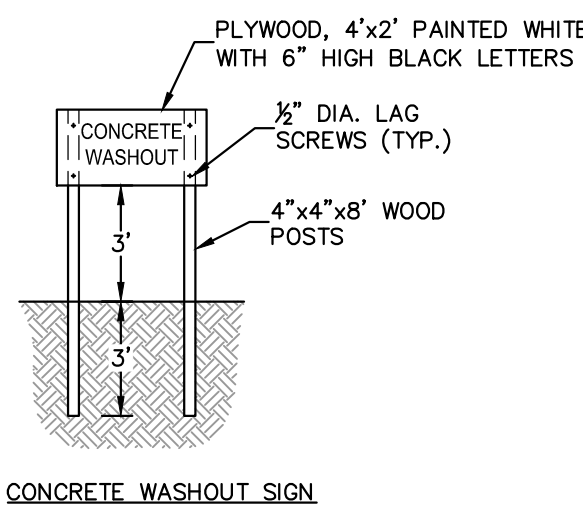
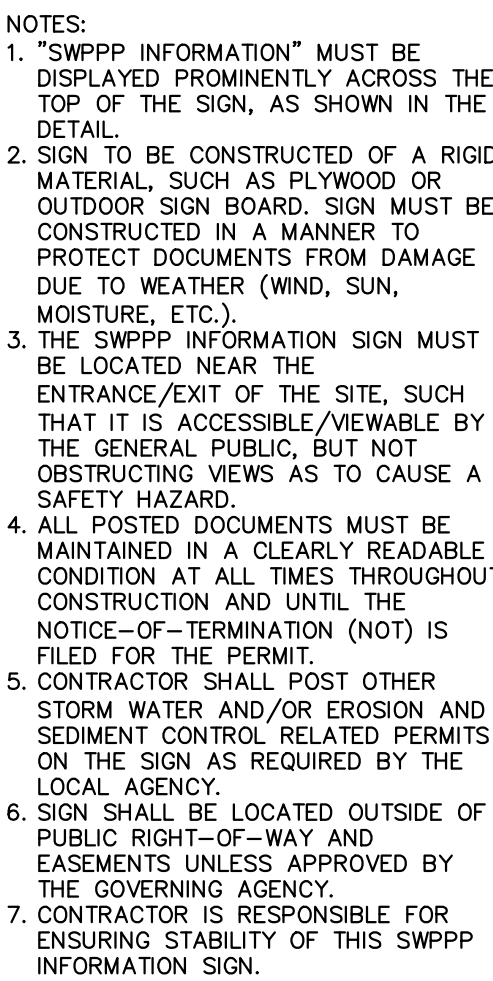
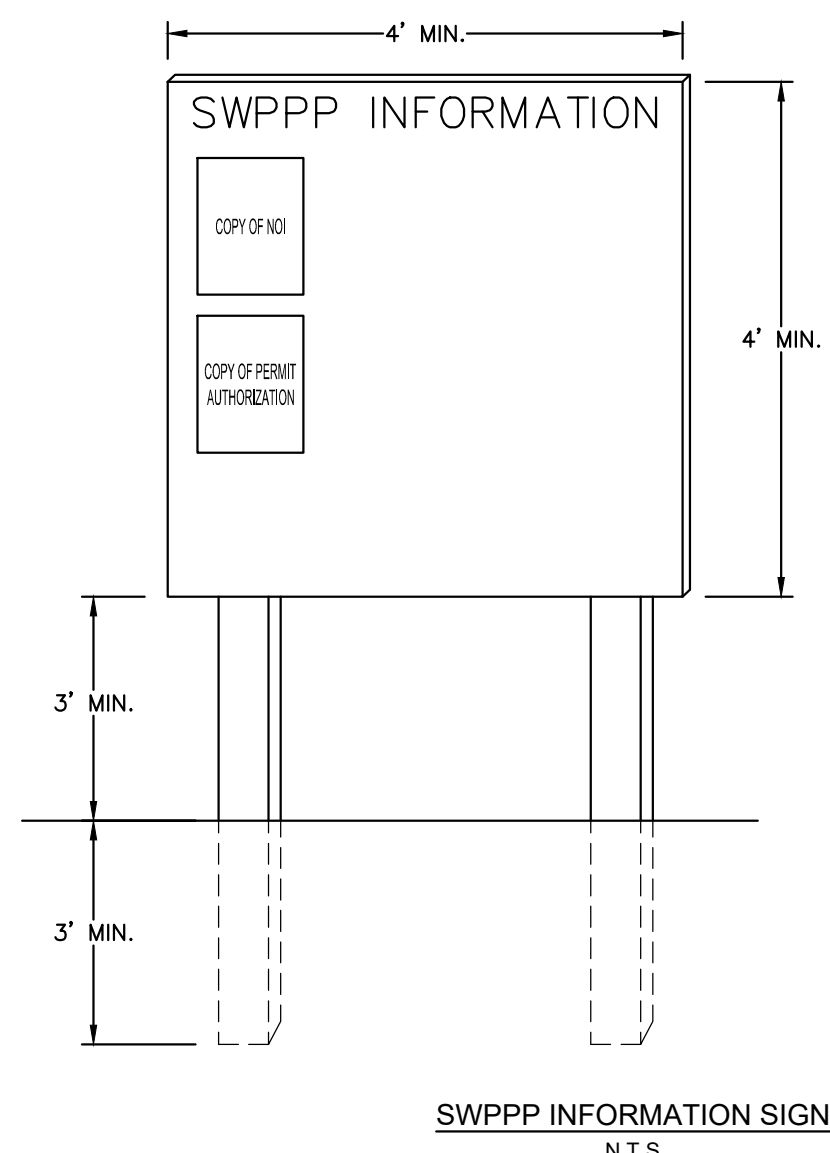
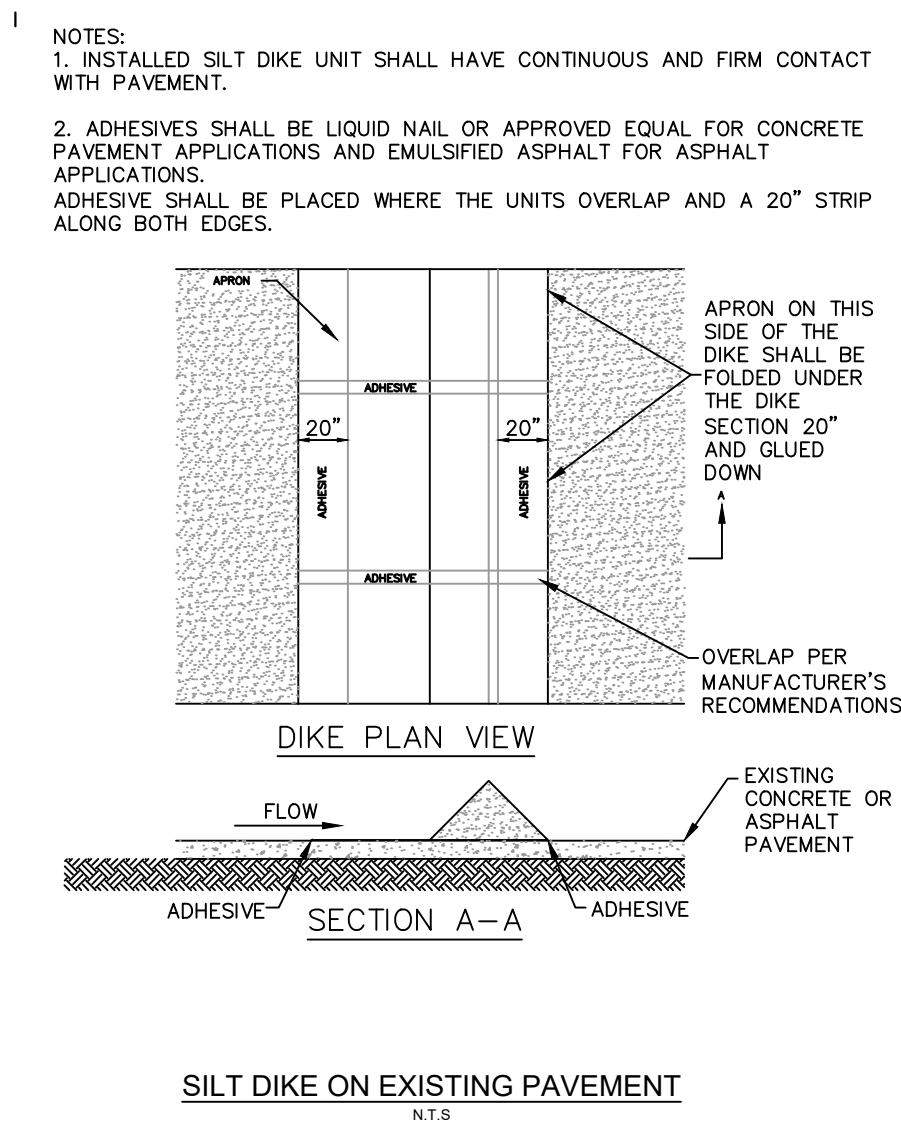
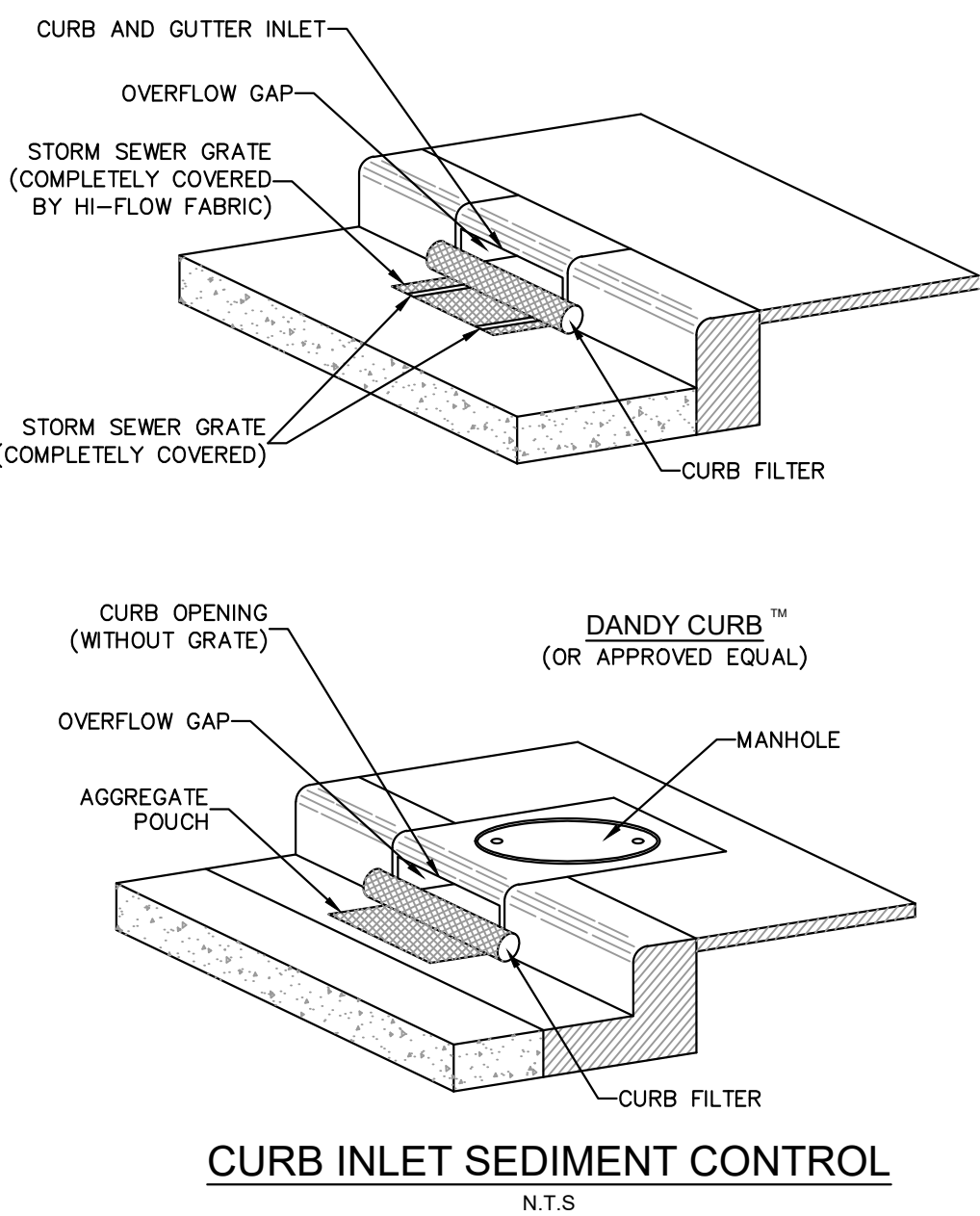
DEMOLITION AND EROSION CONTROL PLAN

T 7 ACCESS ROAD
PREPARED FOR
KELLY PARK VB
DEVELOPMENT LLC

SHEET NUMBER
C-200

Section 1	Project Name and location information:	LOT 7 ACCESS ROADS, W KELLY PARK ROAD BETWEEN GOLDEN GEM AND HW 429 APOPKA, FL 32712
Section 2	Describe the nature of the construction activity:	CONSTRUCTION OF INFRASTRUCTURE FOR LOT 7 ACCESS ROADS
Section 3	Describe the intended sequence of major soil disturbing activities:	CONSTRUCTION OF EROSION AND SEDIMENT CONTROLS, GRADING AND CONSTRUCTION OF STORM SEWER
Section 4	Total area of the site:	50.67 AC
Section 5	Total area of the site to be disturbed:	1.59 AC.
Section 6	Existing data describing the soil or quality of the site and stormwater discharge from the site:	BASED ON THE SOIL SURVEY OF GRANGE COUNTY, FLORIDA, AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE (FORMERLY THE SOIL CONSERVATION SERVICE), THE PROPERTY IS UNDERLAIN BY BROAD AREAS OF SANDY SOILS IDENTIFIED AS VARIANTS OF "CANDLER FINE SANDS". THESE SANDY SOILS ARE COMMONLY FOUND ON KNOLLS AND RIDGES ON MARINE TERRACES. THESE SOILS REPORTEDLY ARE MODERATELY TO STEEPLY SLOPING AND EXCESSIVELY WELL DRAINED. DEPTHS TO GROUNDWATER ARE TYPICALLY MORE THAN 80 INCHES BELOW THE NATURAL GROUND SURFACE FOR MOST OF THE YEAR
Section 7	Estimate the drainage area size for each discharge point:	DISCHARGE POINT SW = 0.64 AC.
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MSW for each discharge point:	PROJECT LOCATION: LAT: 28°45'19" N LONG: 81°34'58" W RECEIVING WATER: STORMWATER POND SWM-2
Section 9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.032, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Guidelines and Reviewer Manual, FDOT, FDEP, and any subsequent amendments.	SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION SITE. CURB INLET SEDIMENT CONTROL AND INLET INSERT SHALL BE INSTALLED ON CURB AND STORM INLETS
Section 10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, soil stabilization, vegetative buffer strips, protection of trees, vegetative preservation, etc. THE PERIMETER SILT FENCE SHALL BE MAINTAINED AROUND THE ENTIRE PROJECT SITE UNTIL LANDSCAPE / STABILIZATION HAS BEEN INSTALLED.	
Section 11	Describe all structural controls to be implemented to divert stormwater from exposed soils and structural practices to storm flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, svals, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining walls, etc., including any temporary and temporary or permanent sediment basins.	
Section 12	SILT FENCE, CURB INLET, INLET INSERT, CONSTRUCTION EXIT, SILT DIKE Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basin (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage. For areas with drainage to temporary sediment basins (or an equivalent alternative), are recommended for drainage areas under 10 acres.	N/A
Section 13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.	N/A - CONNECTING TO EXISTING POND

Section 22	Name	Title	Company Name, Address and Phone Number	Date

[illegible]

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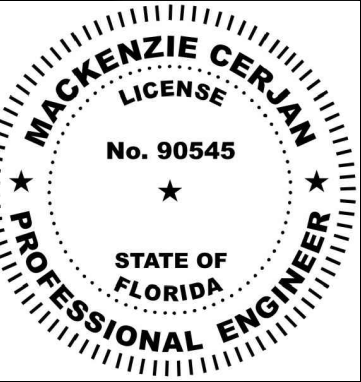
Always call 811 two full business days before you dig to have underground utilities located and marked.

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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MACKENZIE CERJAN ON THE DATE
ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KHA PROJECT
147884000

DATE _____

05/01/2025 SALE AS SHOWN

DESIGNED BY	MD
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DRAWN BY MR

CHECKED BY MR

1/27/2026

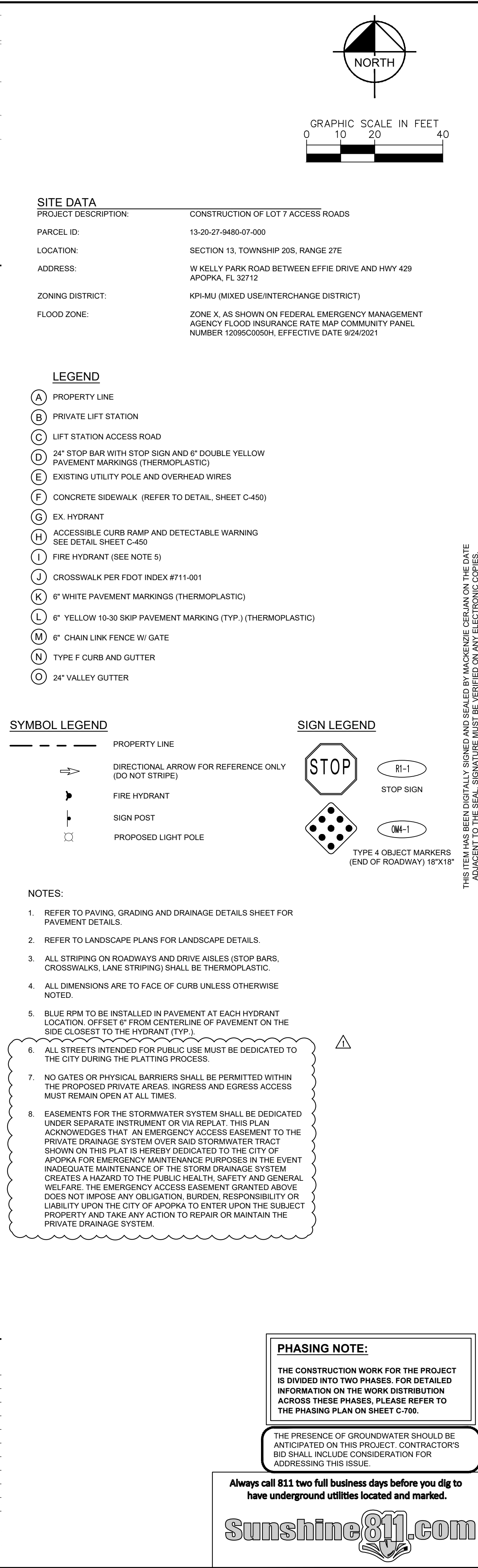
EROSION CONTROL DETAILS

LOT 7 ACCESS ROAD
PREPARED FOR
KELLY PARK VB
DEVELOPMENT LLC

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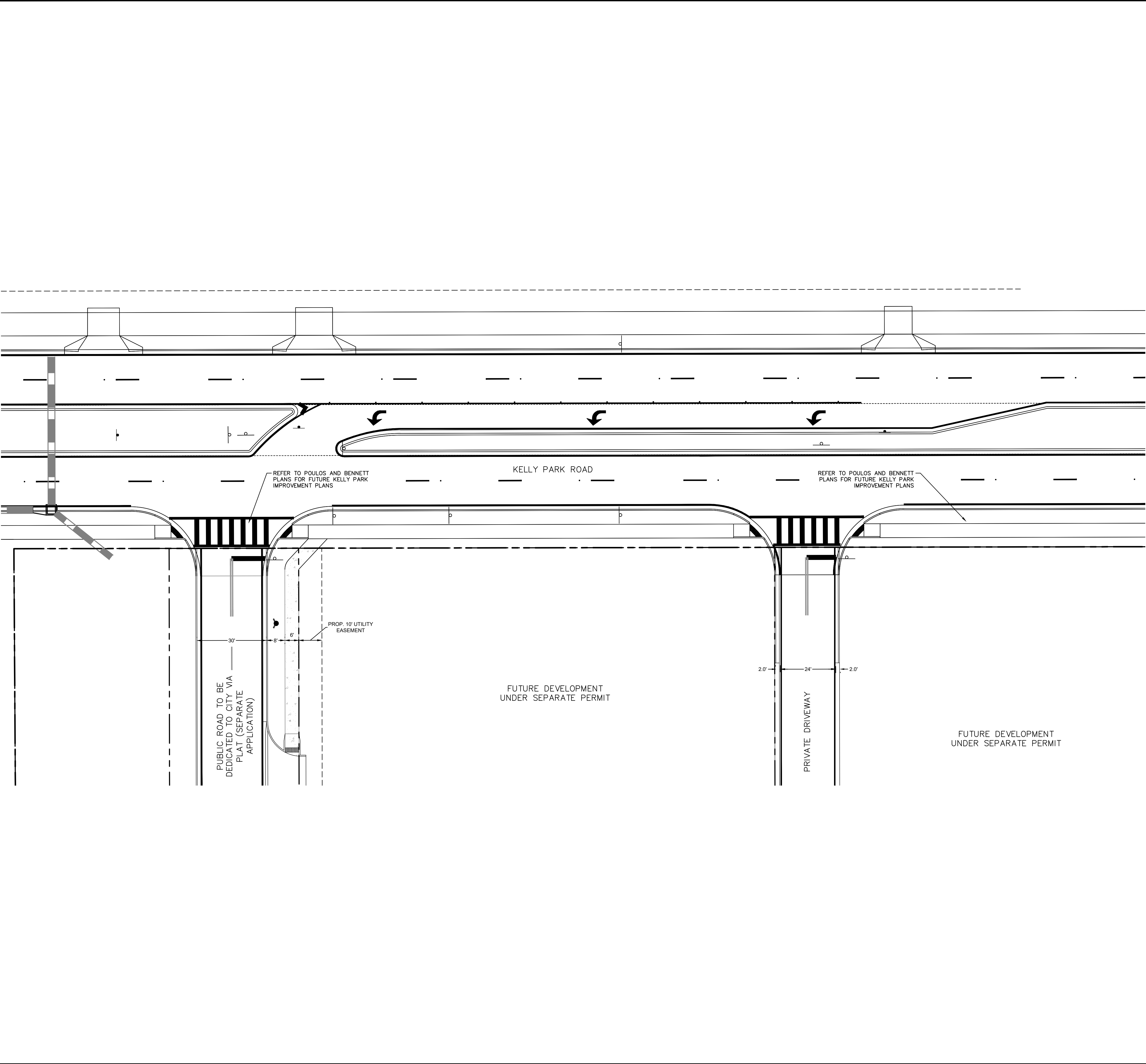
POPKA

SHEET NUMBER
C-250



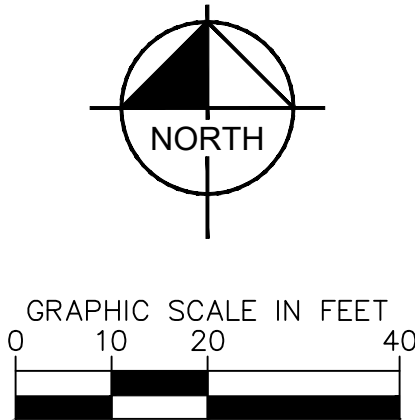
Plotted By: Lamm, Toby Sheet Set: LOT 7 ACCESS ROAD Layout: C-310 FUTURE DRIVEWAY January 27, 2026 01:12:07pm K:\VRB-LDEV\147864000-Kelly Park, Appoka FL\CADD\Advent-Shah\CADD\PlanSheets\C-310 FUTURE DRIVEWAY IMPROVEMENTS PLAN.dwg

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SYMBOL LEGEND

- PROPERTY LINE
- DIRECTIONAL ARROW FOR REFERENCE ONLY (DO NOT STRIPE)
- FIRE HYDRANT
- SIGN POST



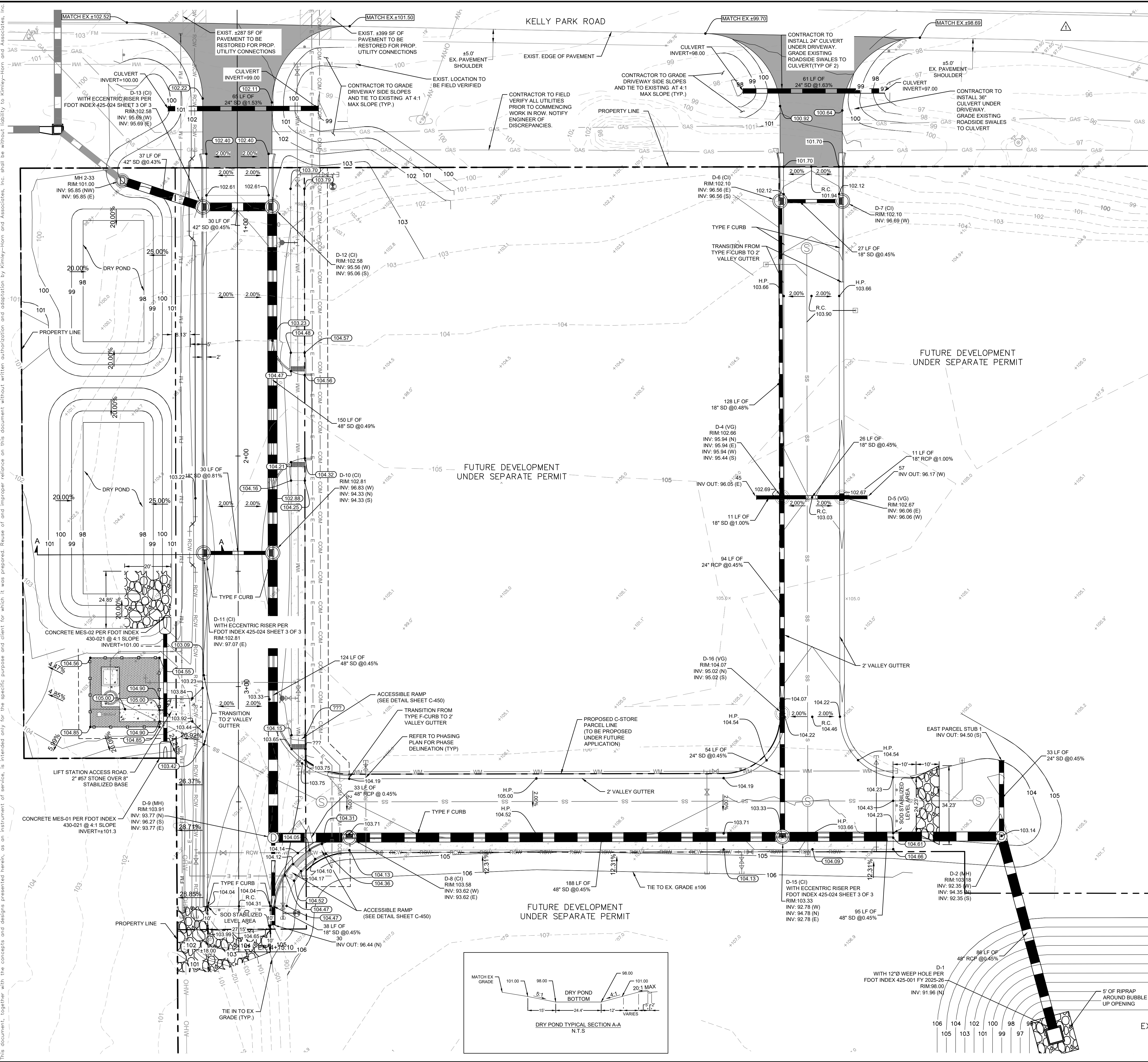
Always call 811 two full business days before you dig to have underground utilities located and marked.

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LOT 7 ACCESS ROAD PREPARED FOR KELLY PARK VB DEVELOPMENT LLC	APOPKA FL	SHEET NUMBER C-310	FUTURE DRIVEWAY IMPROVEMENTS PLAN				KHA PROJECT 147864000		DATE 05/01/2025		SCALE AS SHOWN		DESIGNED BY MDA		DRAWN BY MRM		CHECKED BY MRC		1/27/2026		THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MACKENZIE CERJAN ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.		 MACKENZIE CERJAN No. 90545 STATE OF FLORIDA PROFESSIONAL ENGINEER		Kimley»Horn © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106		REVISIONS		No.		BY	
			DATE		BY		No.		BY		No.		BY		No.		BY		No.		BY		No.		BY							

Plotted By: Larry, Toby Street Set: LOT 7 ACCESS ROAD Layout: C-400 PAVING AND DRAINAGE PLAN January 27, 2026 01:12:45pm K:\VRB\IDEA\147864000 Kelly Park, Apopka FL\CADD\Short\GADD\Plan\Sheets\C-400 PAVING AND DRAINAGE PLAN.dwg
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LEGEND

XX.XX PROPOSED GRADE (NAVD)
EDGE OF PAVEMENT

XX.XX PROPOSED GRADE (NAVD)
TOP OF CURB/SIDEWALK GRADE

EXISTING GRADES (FROM SURVEY, NAVD)

H.P. HIGH POINT

R.C. ROAD CROWN

CI CURB INLET

VG VALLEY GUTTER INLET

EX DENOTES EXISTING FEATURE

MH STORM MANHOLE

SD STORM DRAIN

HEAVY DUTY ASPHALT PAVEMENT

STANDARD CONCRETE SIDEWALK

RIPRAP EROSION CONTROL PER SECTION 530 OF THE
FDOT STANDARD SPECIFICATIONS FY 2025-26

PAVING AND GRADING NOTES

- TOPOGRAPHIC INFORMATION IS TAKEN FROM AN AS-BUILT SURVEY OF THE WYLD OAKS MASS GRADING DEVELOPMENT BY FLORIDA DESIGN CONSULTANTS, INC. DATED JANUARY 23, 2025. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 ADJUSTMENT (NAVD 1988).
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST FDOT DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
- THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER-COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- LANDSCAPE ISLANDS IN PARKING AREA TO BE BERMED 18" ABOVE BACK OF CURB ELEVATION.

DRAINAGE NOTES

- CONTRACTOR TO CONSTRUCT DRAINAGE STRUCTURES WITH USF GRATES, RIMS AND COVERS AS CALLED OUT OR APPROVED EQUAL. SHOP DRAWINGS ARE TO BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR TO REFER TO FDOT DESIGN STANDARD (AND NOT LIMITED TO) INDEX'S 425-010, 425-001, 425-020, 425-021, 425-024, 425-052 & 425-053 FOR MANHOLE, INLET AND GRATE SPECIFICATIONS.
- ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITY RINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT RINGS AND COVERS WITH HEAVY DUTY TRAFFIC RATED RINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION.
- ALL CLEAN-OUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
- SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% LONGITUDINALLY. GRADES IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. IN CASES OF SIDEWALK LANDINGS AT BUILDING ENTRANCES, GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. ACCESSIBLE CURB RAMP SHALL NOT EXCEED 6" IN LENGTH AND 1:12 SLOPE. LANDINGS AT CHANGES IN DIRECTION SHALL BE MINIMUM 60"x60" AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
- ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
 - FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4'-24" DIAMETER.
 - FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 280, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
 - NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
- ALL DRAINAGE PIPE JOINTS SHALL BE FILTER FABRIC WRAPPED PER FDOT INDEX #280. ALL DRAINAGE PIPE JOINTS NEED TO BE FILTER FABRIC WRAPPED REGARDLESS OF MATERIAL.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
- EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES.
- CONTRACTOR TO FURNISH AND VACUUM ENTER ON-SITE STORM WATER SYSTEM UPON COMPLETION OF PROPOSED WORK.
- THE SELECTION OF STORM PIPE MATERIAL FOR THIS PROJECT IS AT THE DISCRETION OF THE DEVELOPER AND EITHER REINFORCED CONCRETE PIPE (RCP) OR HIGH-DENSITY POLYETHYLENE (HDPE) MAY BE UTILIZED, PROVIDED ALL INSTALLATIONS COMPLY WITH APPLICABLE CITY OF APOPKA STANDARDS AND SPECIFICATIONS.

PHASING NOTE:

THE CONSTRUCTION WORK FOR THE PROJECT IS DIVIDED INTO TWO PHASES. FOR DETAILED INFORMATION ON THE WORK DISTRIBUTION ACROSS THESE PHASES, PLEASE REFER TO THE PHASING PLAN ON SHEET C-700.

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EX. STORMWATER POND SWM-2

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PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

MACKENZIE CERJAN
LICENSE
No. 90545
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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KHA PROJECT	DATE	SCALE	AS SHOWN	DESIGNED BY	DRAWN BY	CHECKED BY
147864000	05/01/2025	AS SHOWN	MDA	MRM	MRC	

PAVING, GRADING, AND DRAINAGE PLAN

LOT 7 ACCESS ROAD

PREPARED FOR
KELLY PARK VB DEVELOPMENT LLC

APOPKA FL

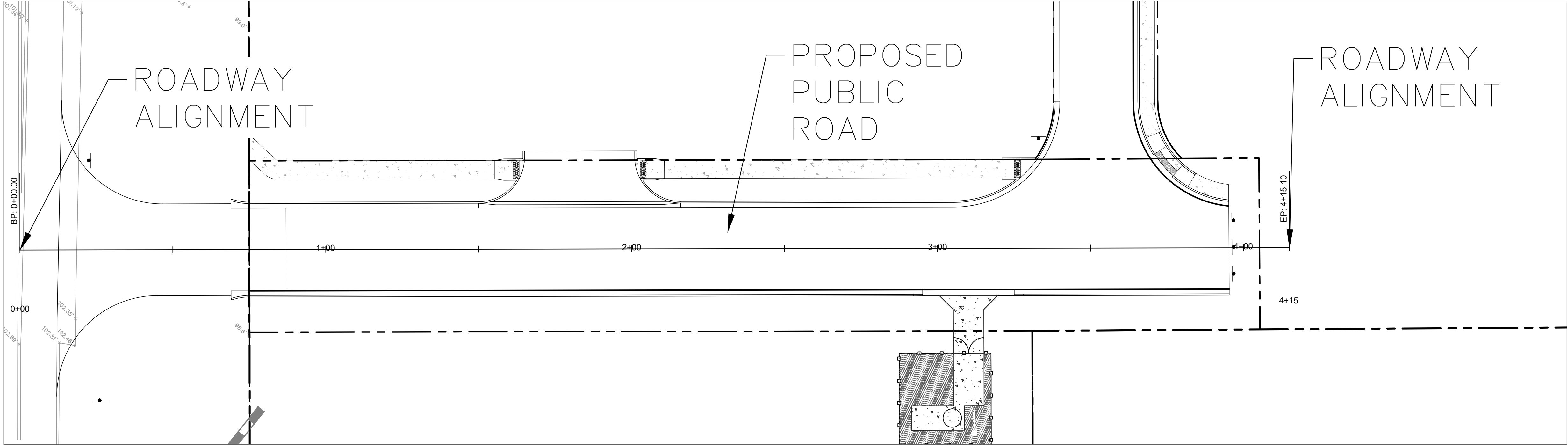
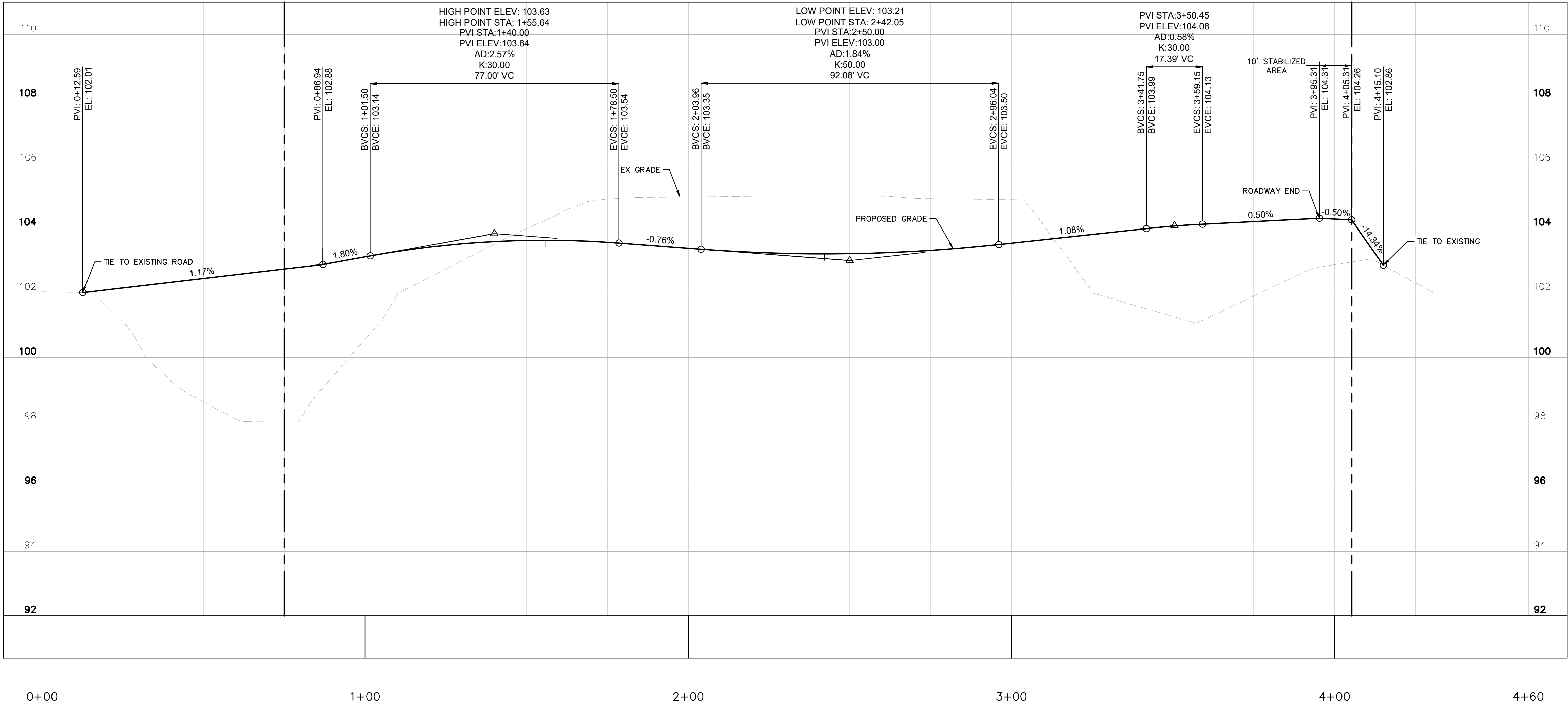
SHEET NUMBER
C-400

01/09/26 J.L.

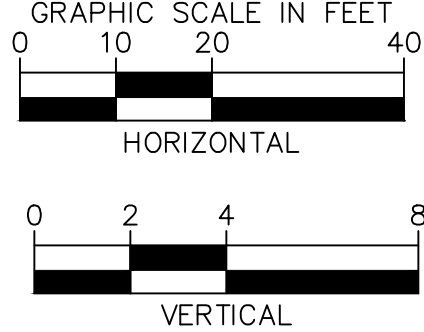
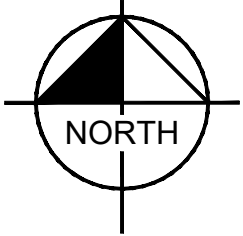
REVISIONS

NO.	DATE	BY

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ROADWAY PROFILE ALIGNMENTS LAYOUT
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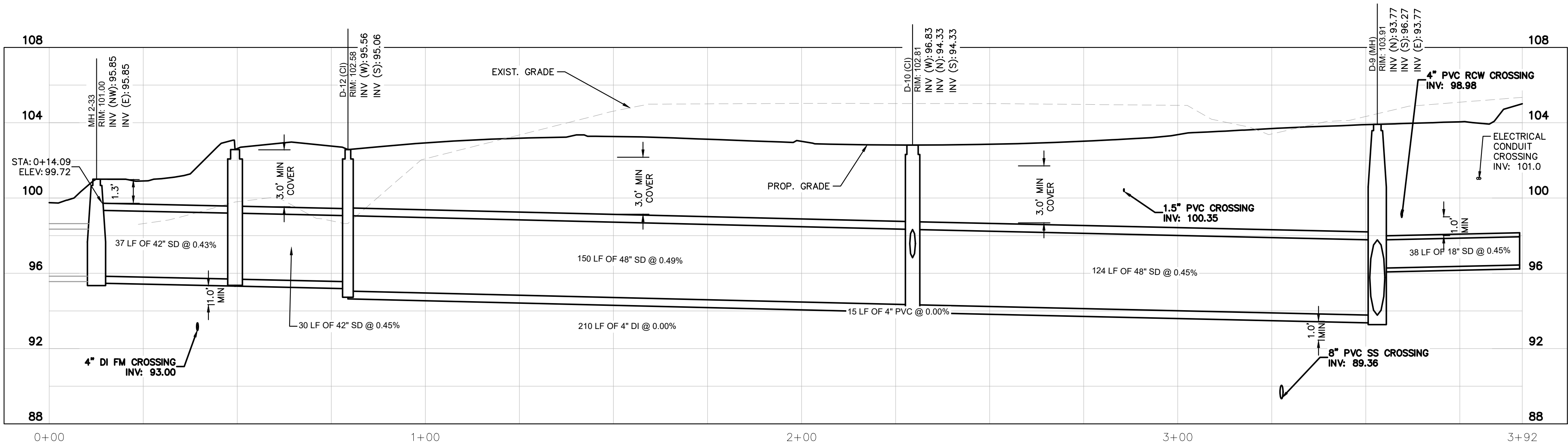
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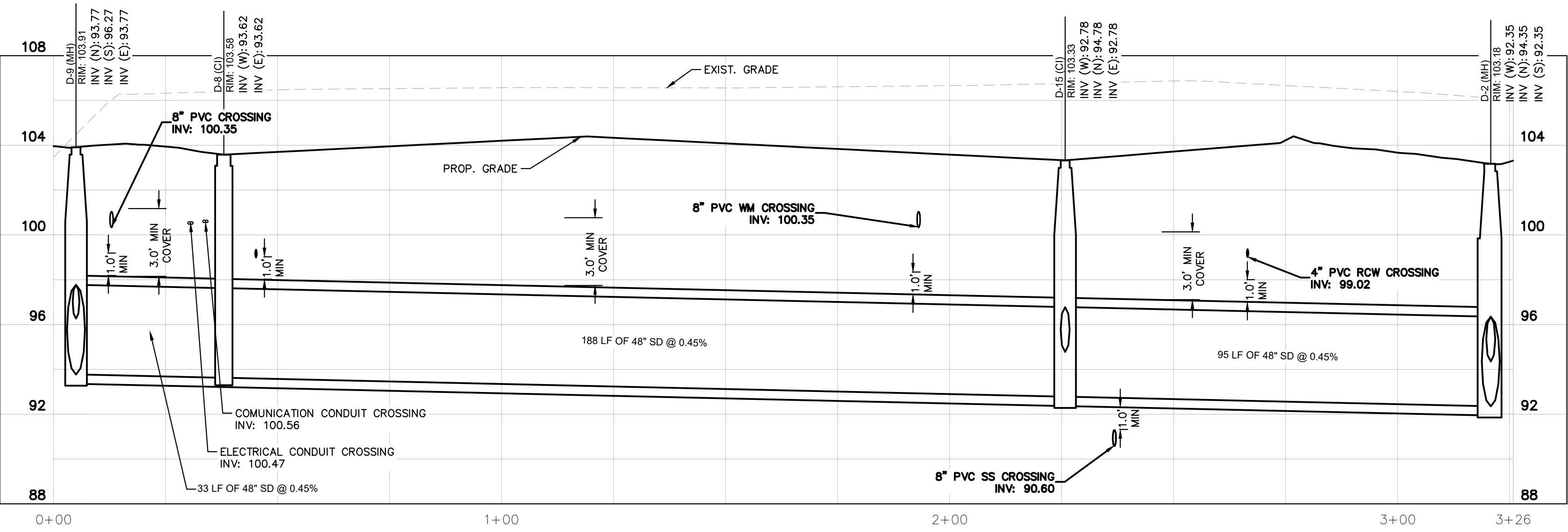
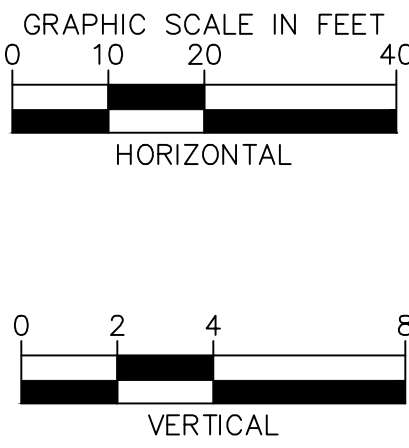
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LOT 7 ACCESS ROAD PREPARED FOR KELLY PARK VB DEVELOPMENT LLC APOPKA, FL	ROADWAY PROFILE	Kimley»Horn © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106	REVISIONS		DATE	BY
			No.			
SHEET NUMBER C-410		THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MACKENZIE CERJAN ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.				

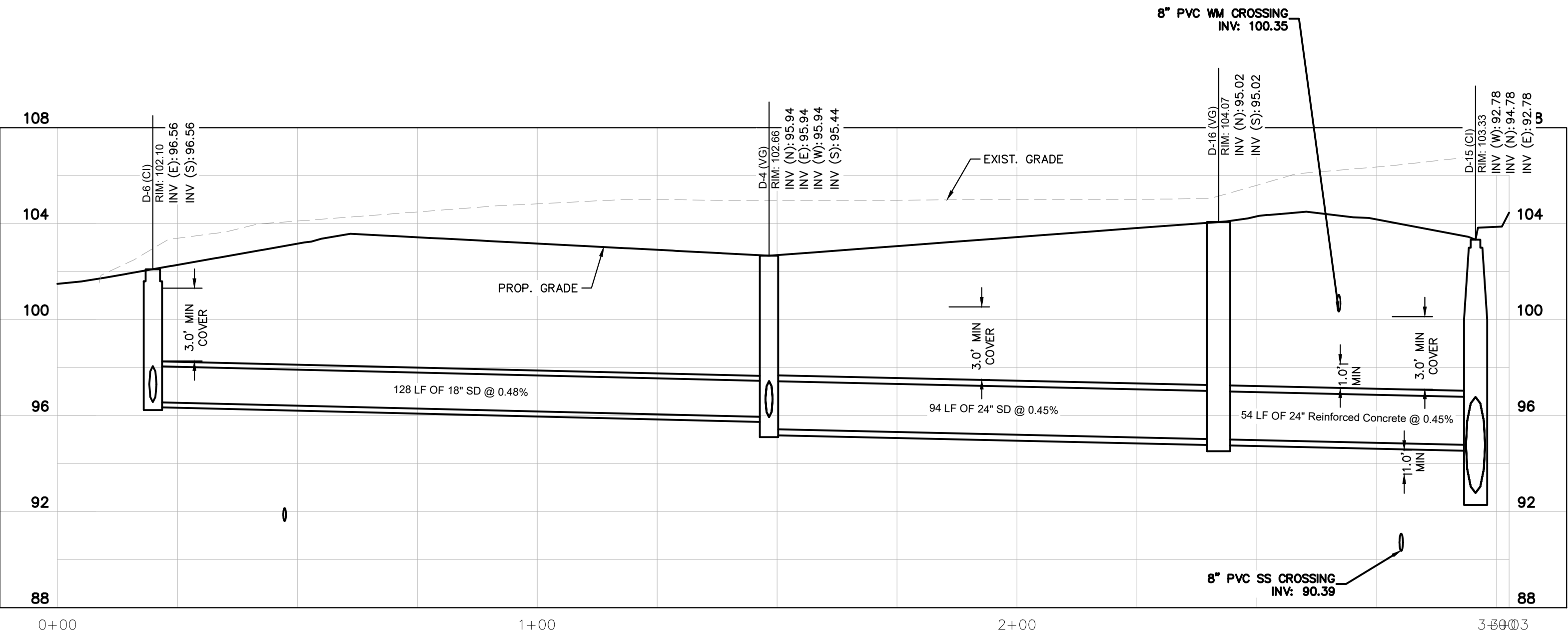
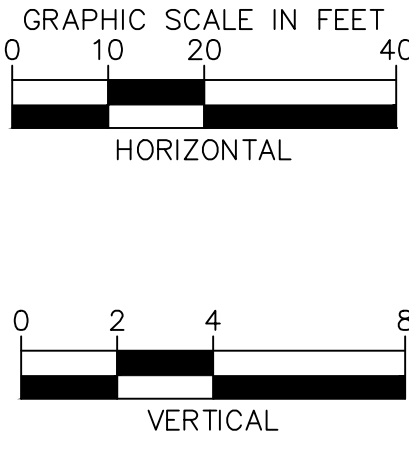
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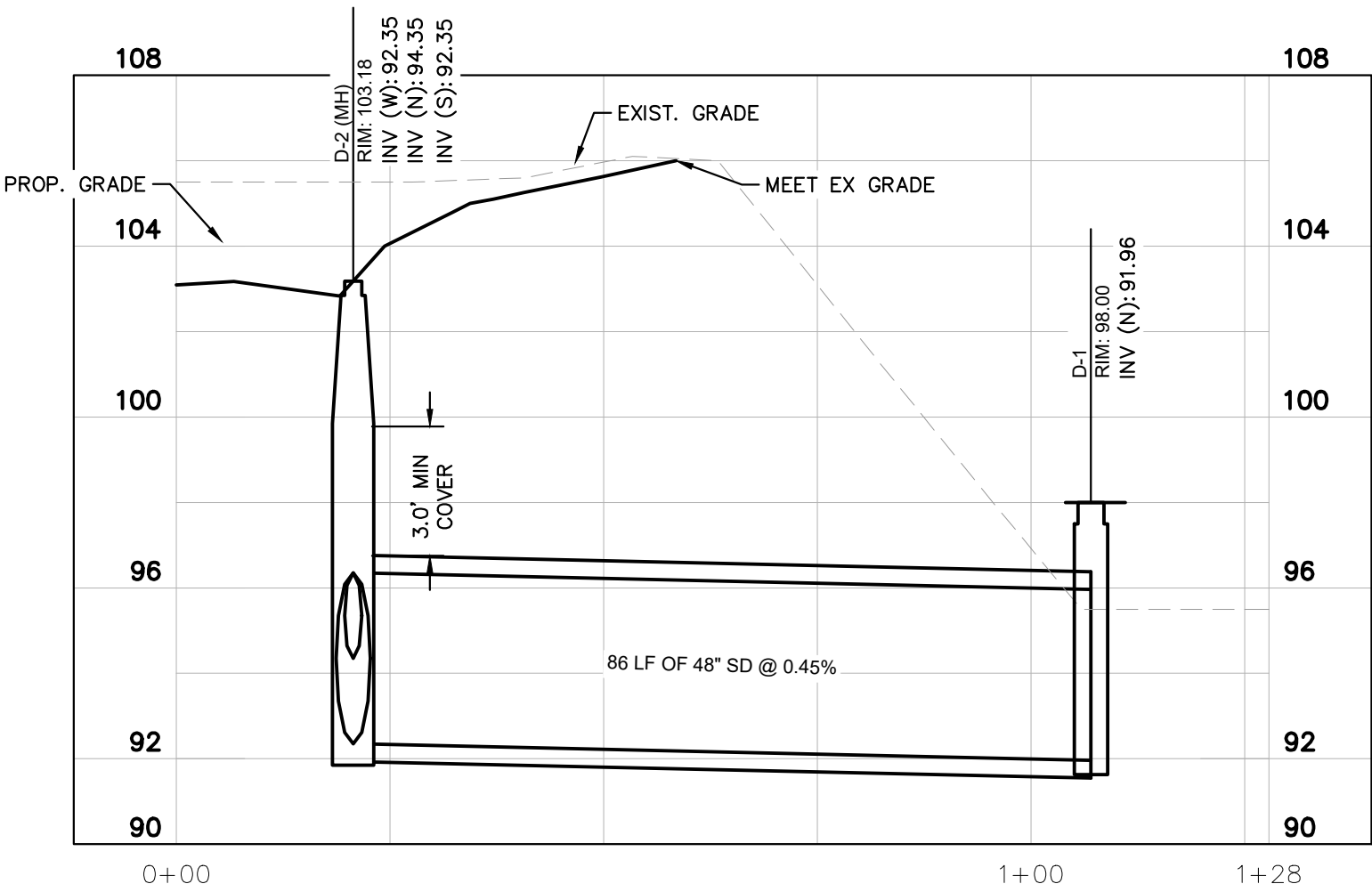
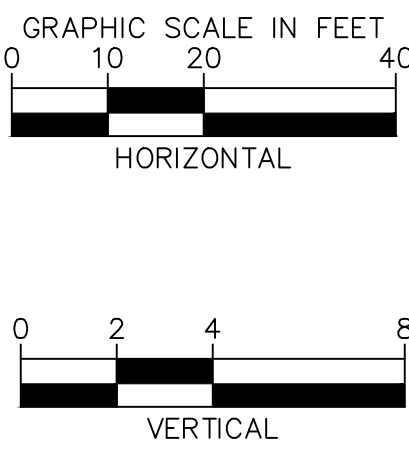
A-A STORM WATER PROFILE



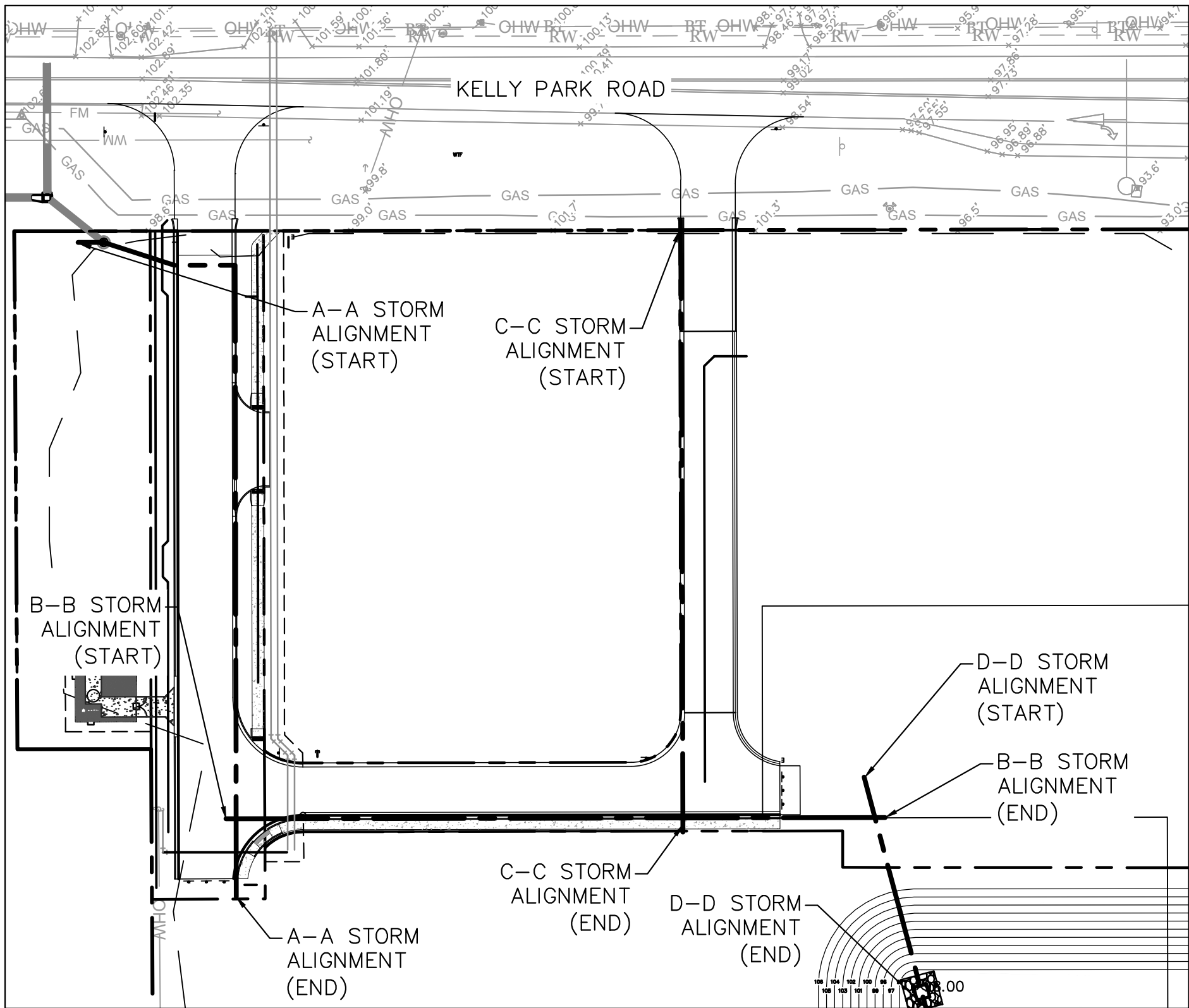
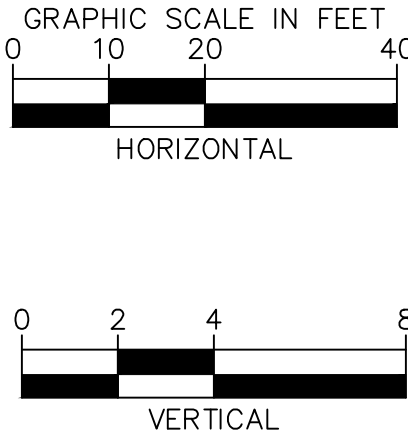
B-B STORM WATER PROFILE



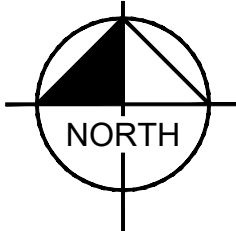
C-C STORM WATER PROFILE



D-D STORM WATER PROFILE



PROFILES ALIGNMENTS LAYOUT
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PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
147864000

DATE
05/01/2025

SCALE AS SHOWN

DESIGNED BY MDA

DRAWN BY MRW

CHECKED BY MRC

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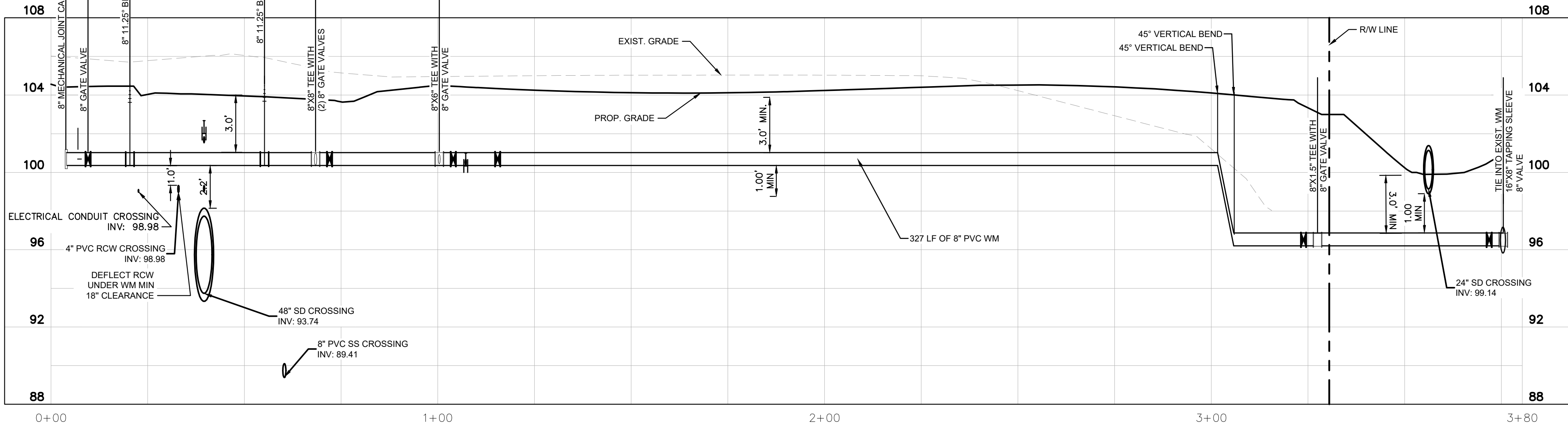
LOT 7 ACCESS ROAD
PREPARED FOR
KELLY PARK VB
DEVELOPMENT LLC

APOPKA FL

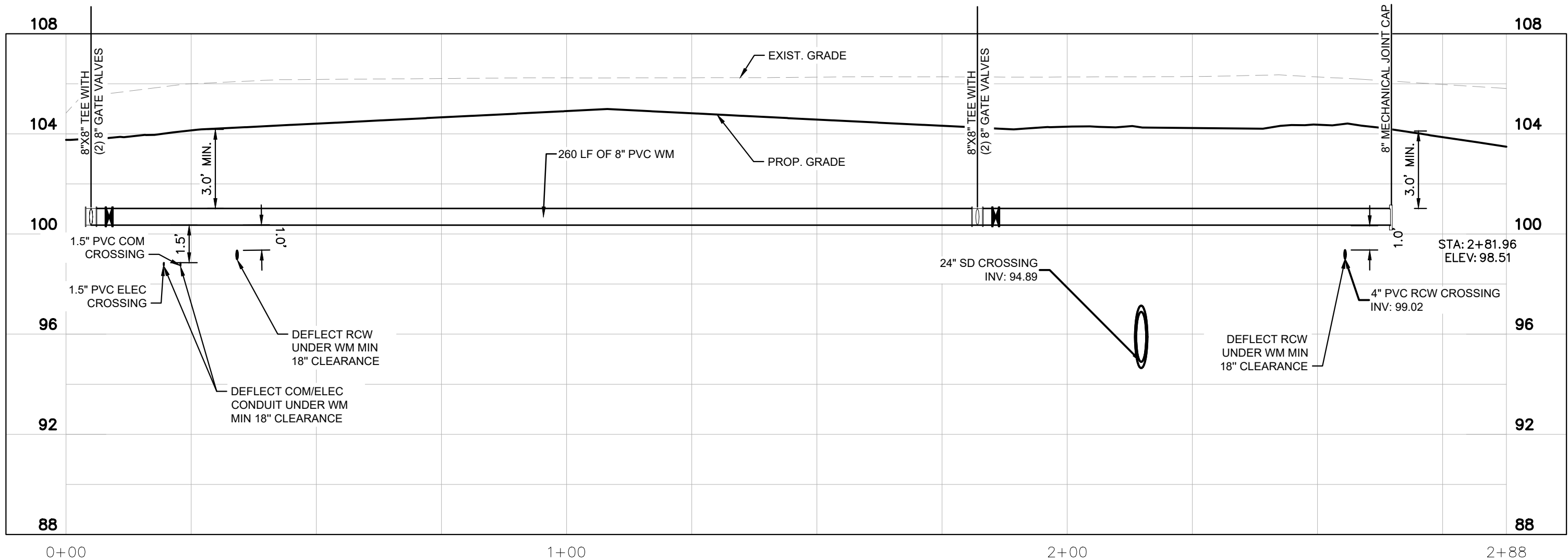
DRAINAGE PROFILES

SHEET NUMBER
C-420

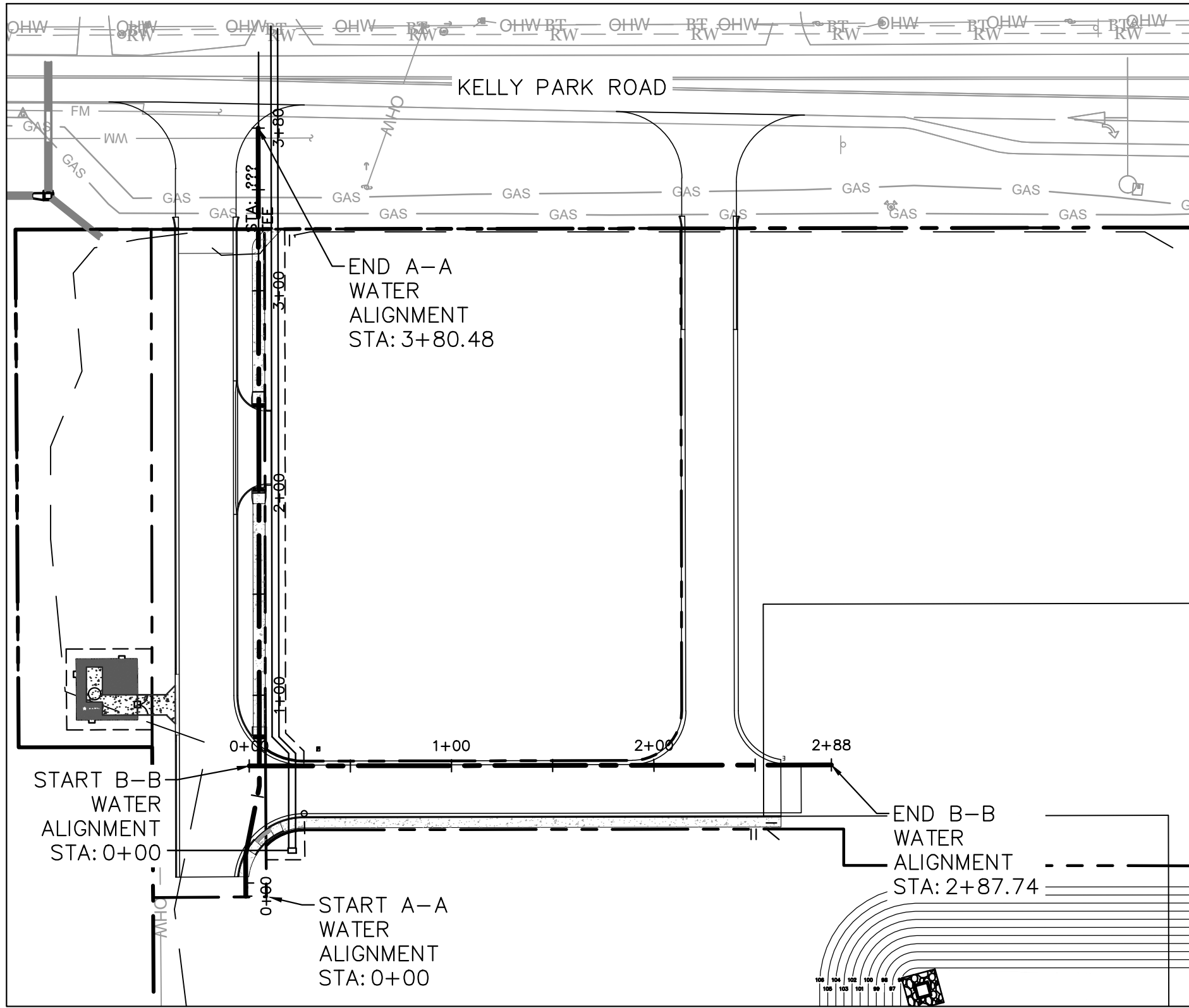
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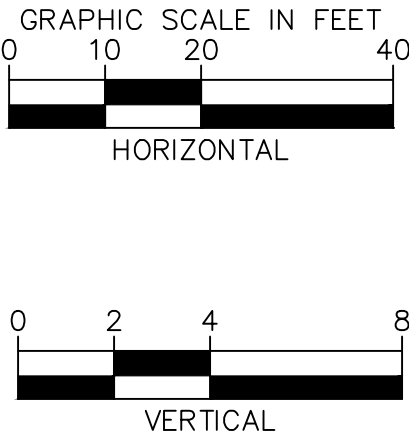
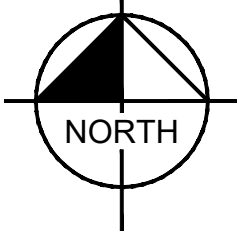
A-A WATER MAIN PROFILE



B-B WATER MAIN PROFILE



PROFILES ALIGNMENTS LAYOUT
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LOT 7 ACCESS ROAD
PREPARED FOR
KELLY PARK VB
DEVELOPMENT LLC

APOPKA
FL

UTILITY PROFILES

APOPKA
FL

Kimley»Horn

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MACKENZIE CERJAN
No. 90545
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT
147864000

DATE
05/01/2025

SCALE
AS SHOWN

DESIGNED BY
MDA

DRAWN BY
MRM

CHECKED BY
MRC

REVISIONS

No.

DATE

BY

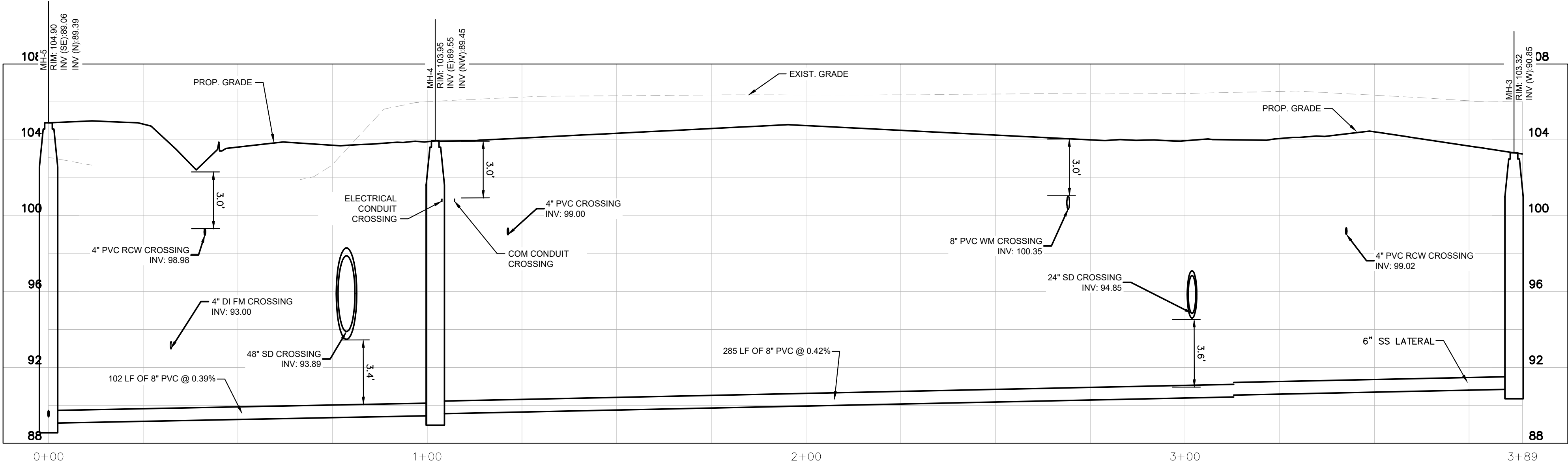
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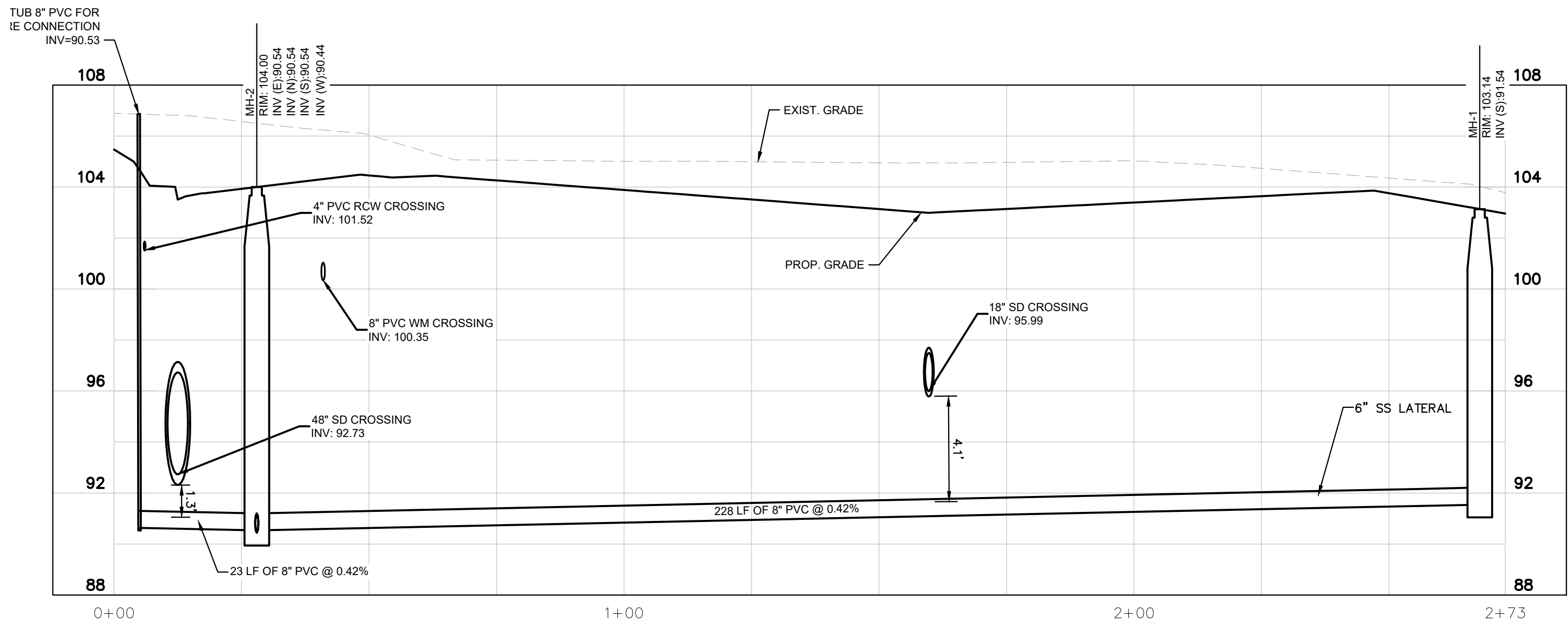
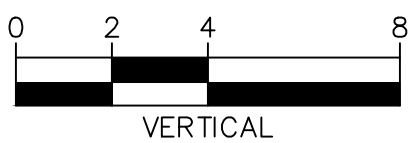
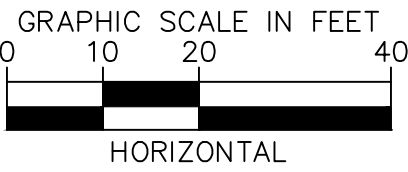
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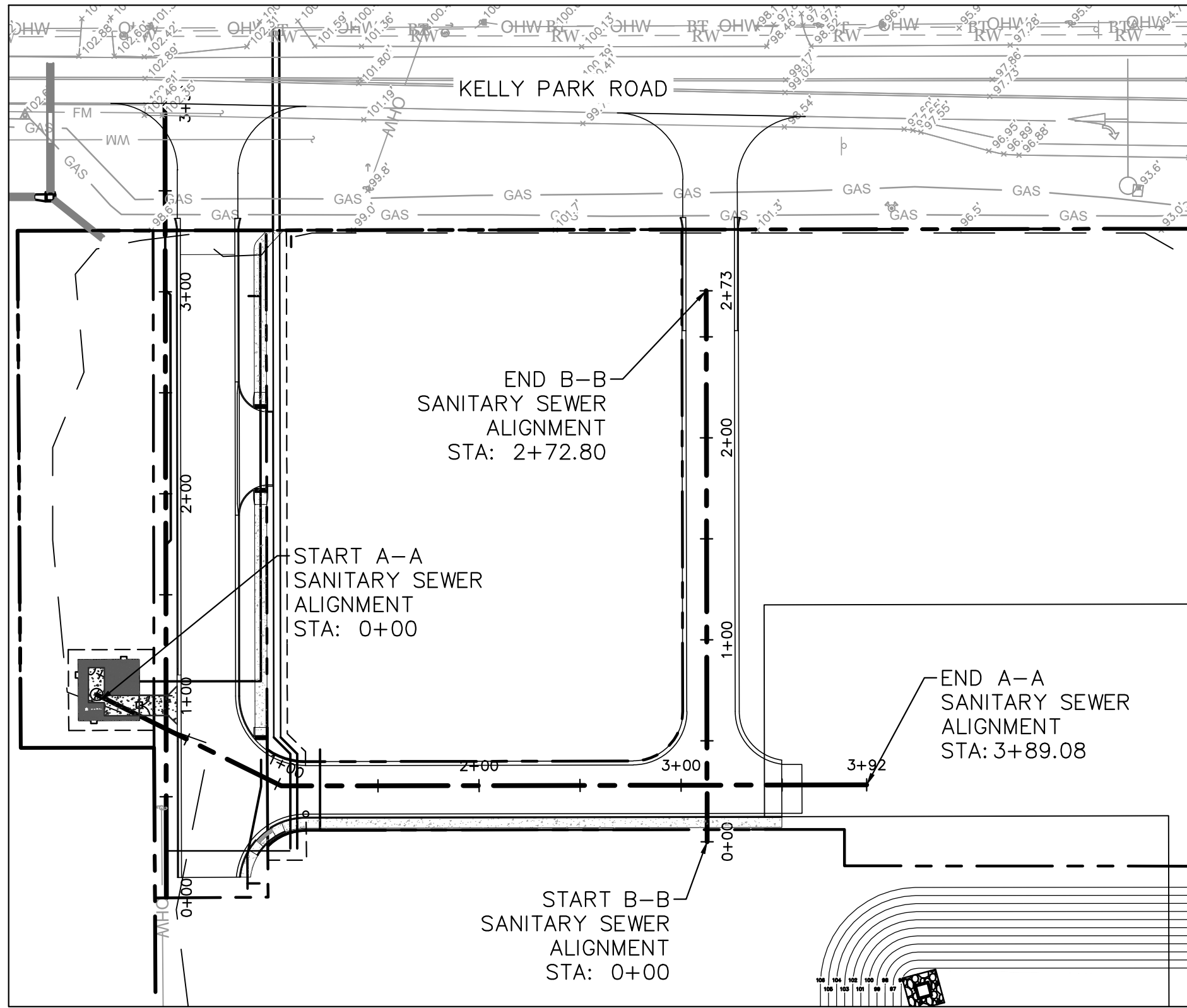
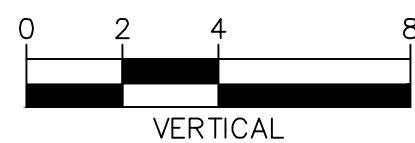
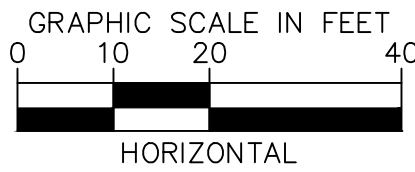
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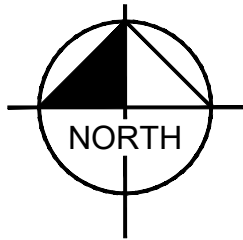
A-A SANITARY SEWER PROFILE



B-B SANITARY SEWER PROFILE



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							DATE

LOT 7 ACCESS ROAD
PREPARED FOR
KELLY PARK VB
DEVELOPMENT LLC
APOPKA

UTILITY PROFILES

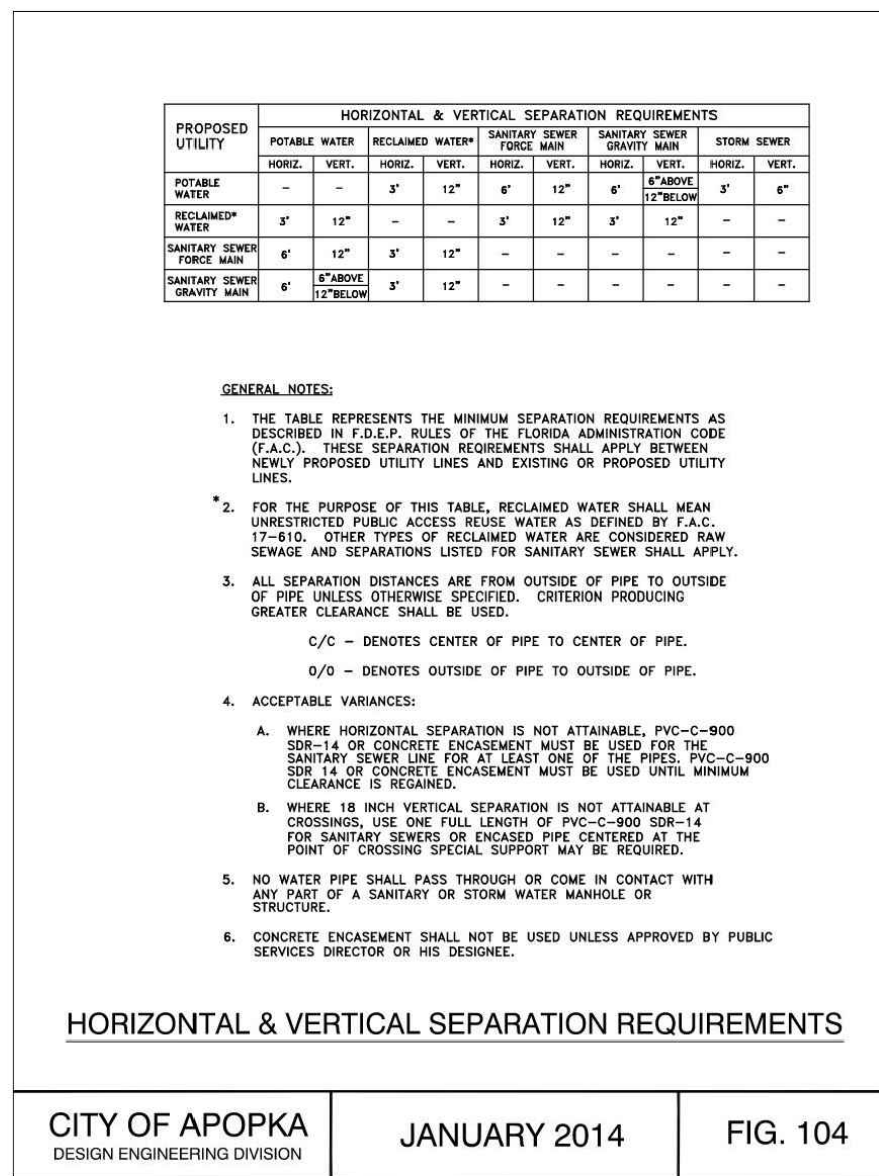
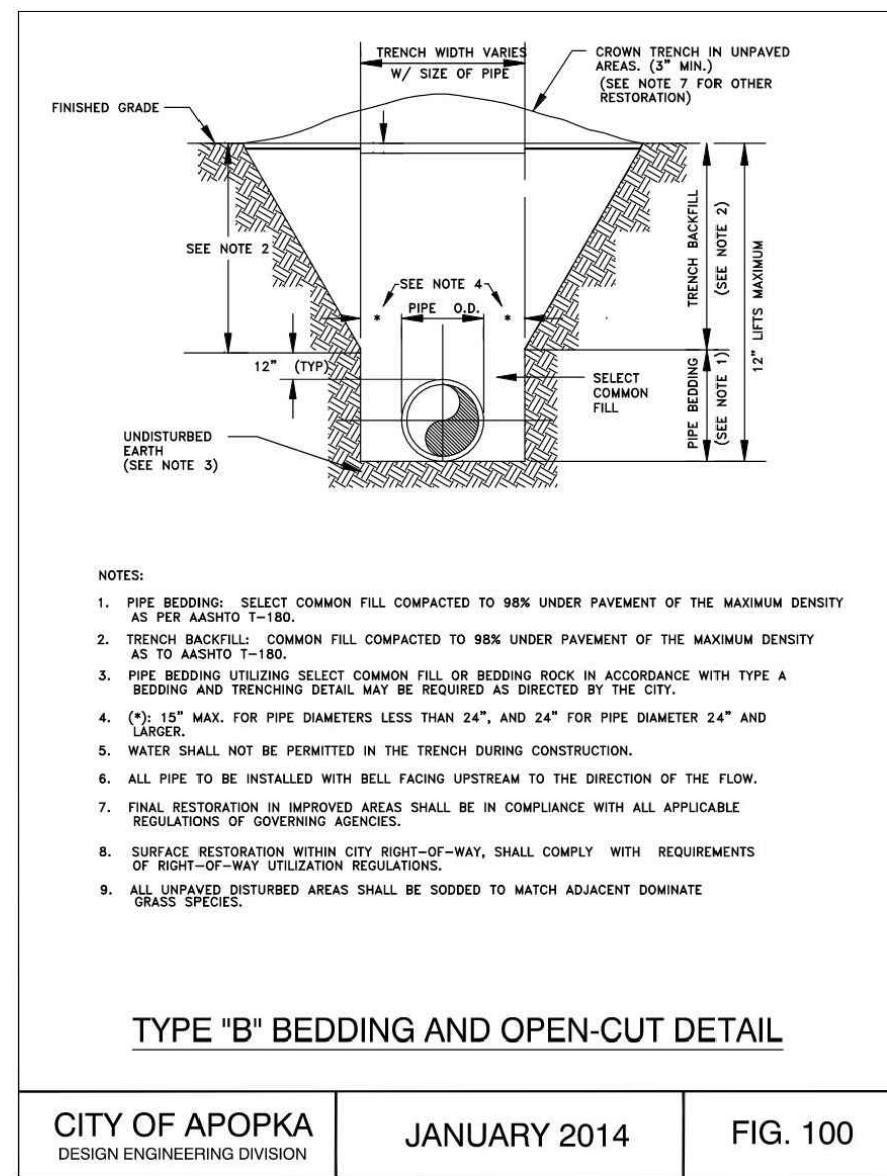
KHA PROJECT
147864000
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/27/2025

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							DATE



MINIMUM LENGTH (F') TO BE RESTRAINED ON EACH SIDE OF FITTING(S). *											
	PIPE SIZE										
	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
90° BEND	33	43	51	60							
45° BEND	14	18	22	25							
22-1/2° BEND	7	9	11	12							
11-1/4° BEND	4	5	6	6							
TEE**	1	7	24	44							
REDUCER (ONE SIZE SMALLER)		41	39	40							
DEAD END	74	96	115	136							

** ONLY RESTRAIN BRANCH PIPE FOR TEES, ONLY RESTRAIN LARGER PIPE FOR REDUCERS
 ** LENGTH ALONG RUN ASSUMED TO BE 18'

NOTES:

1. FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT. FM FITTINGS TO BE LISTED WITH PROTECTO 401.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" PUBLISHED BY SPIRA, FOR PIPE WITH THE FOLLOWING ASSUMPTIONS:

TYPE OF PIPE: _____

PVC

WORKING PRESSURE: _____ P.S.I.**

WM OR KVM = 100 P.S.I./ S.F.

SOIL DENSIFICATION: []
 LAYING CONDITIONS: []
6. FOR PIPE ENCASED IN POLYETHYLENE INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
7. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

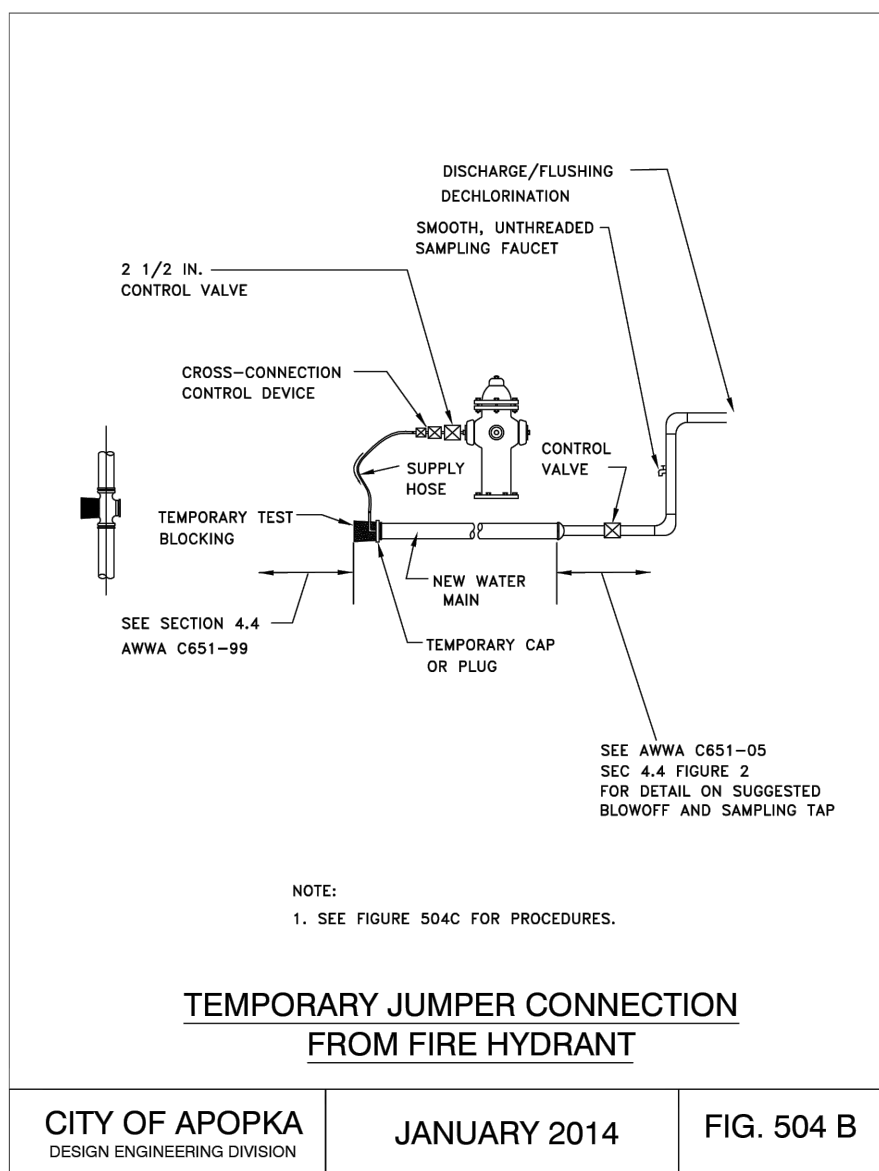
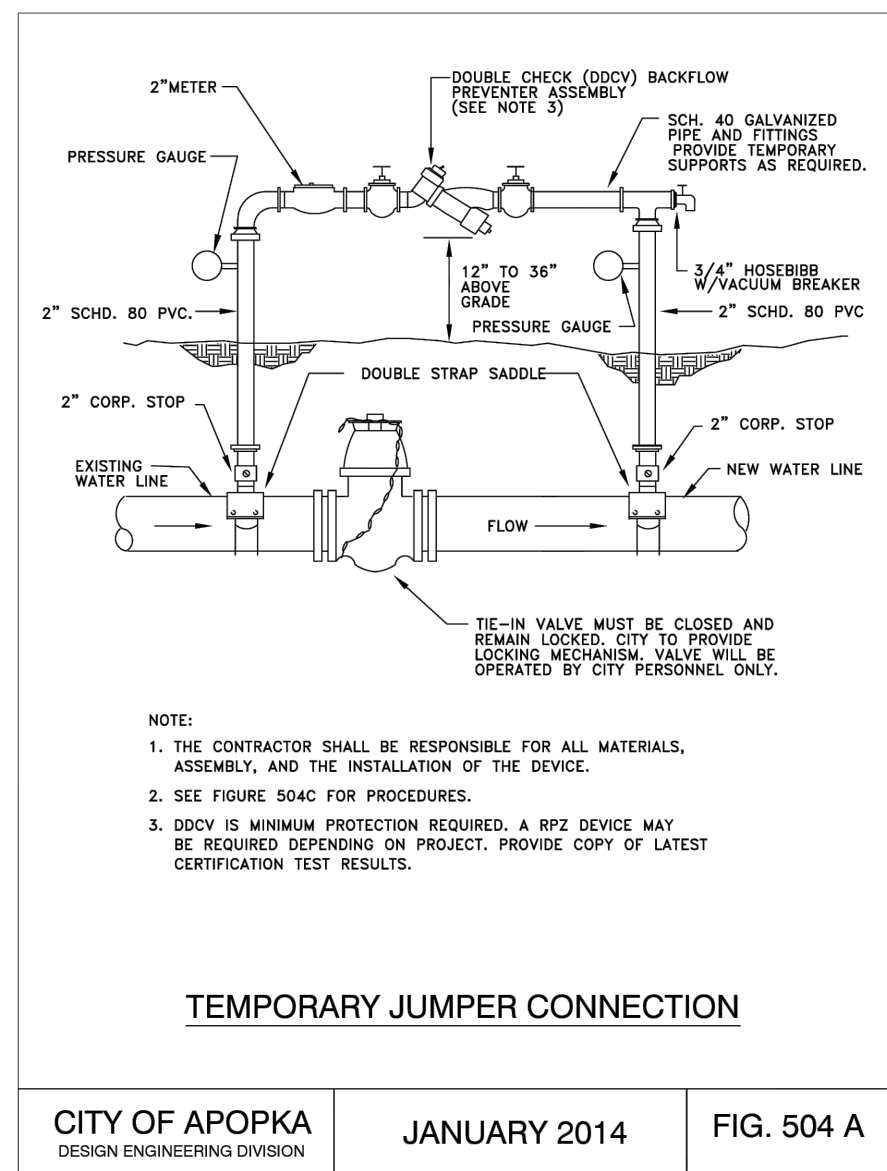
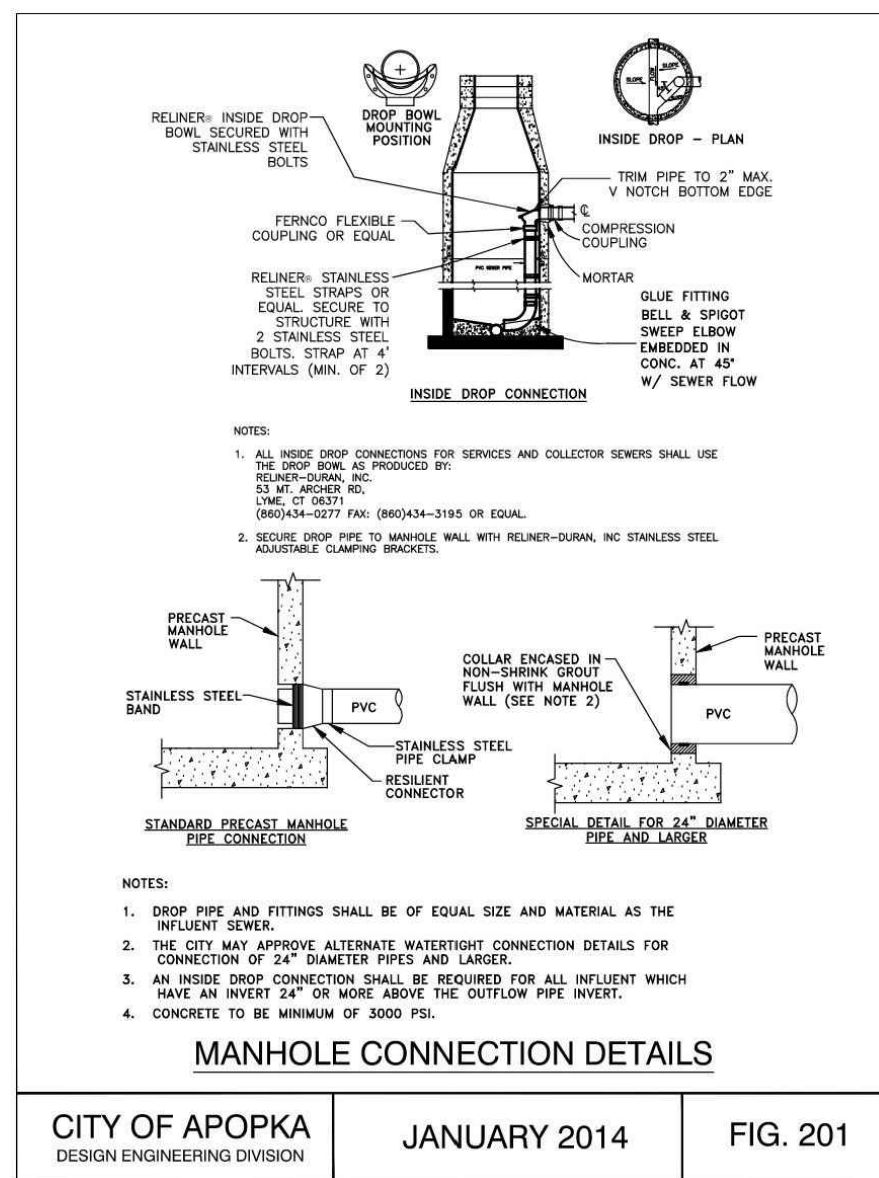
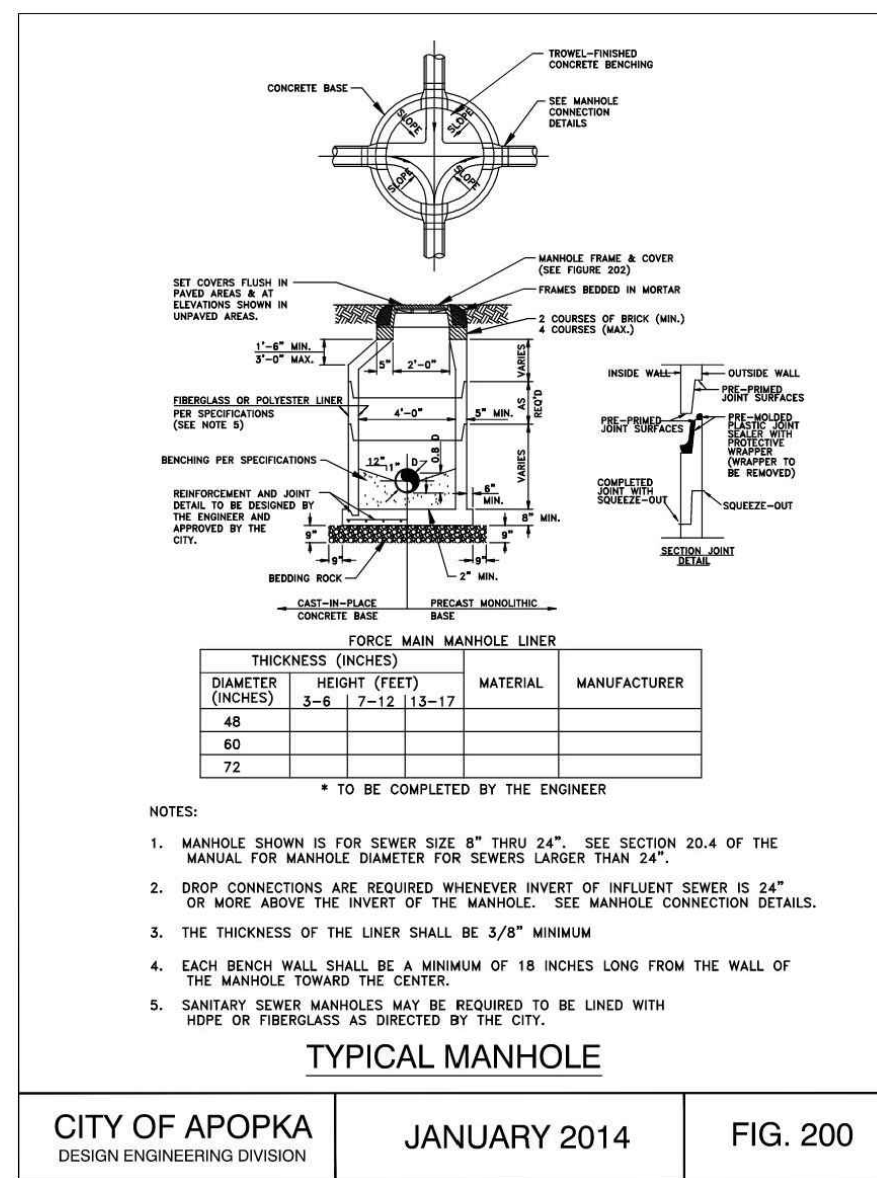
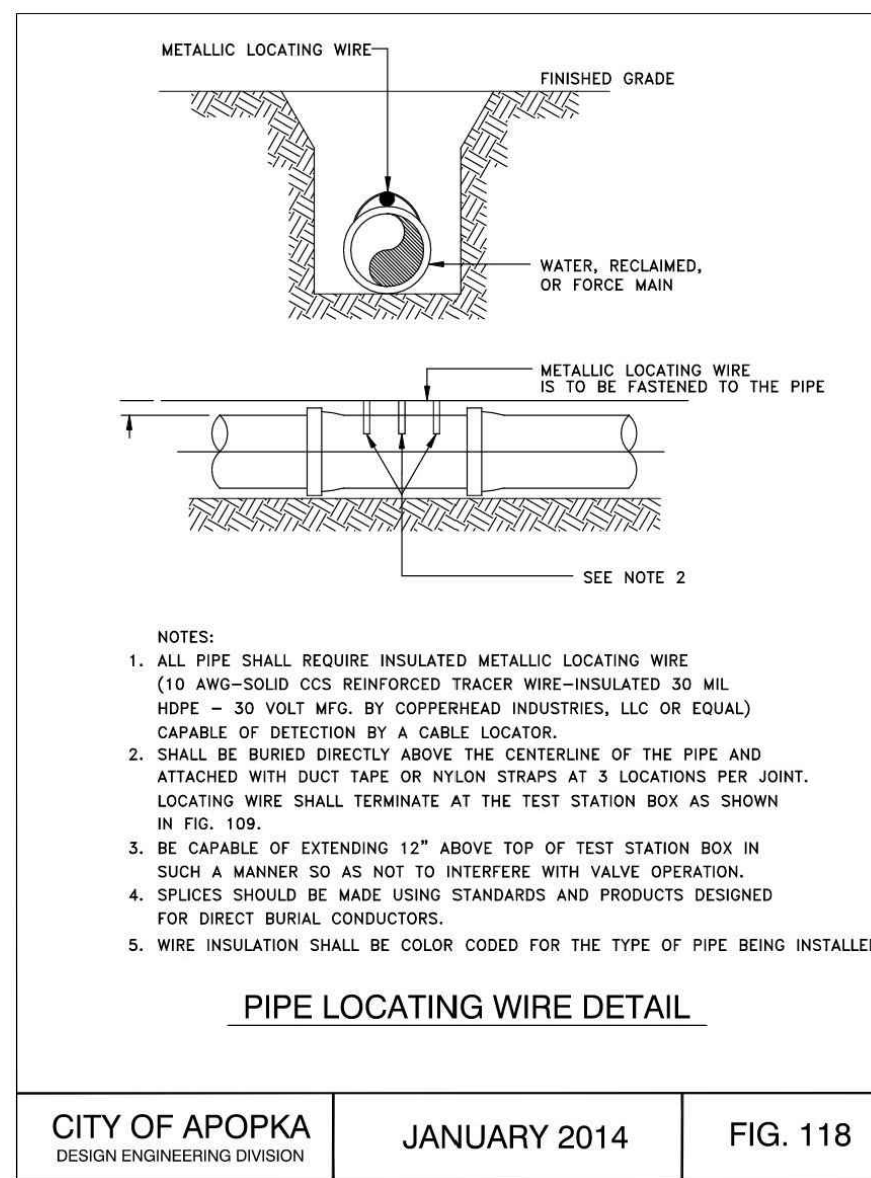
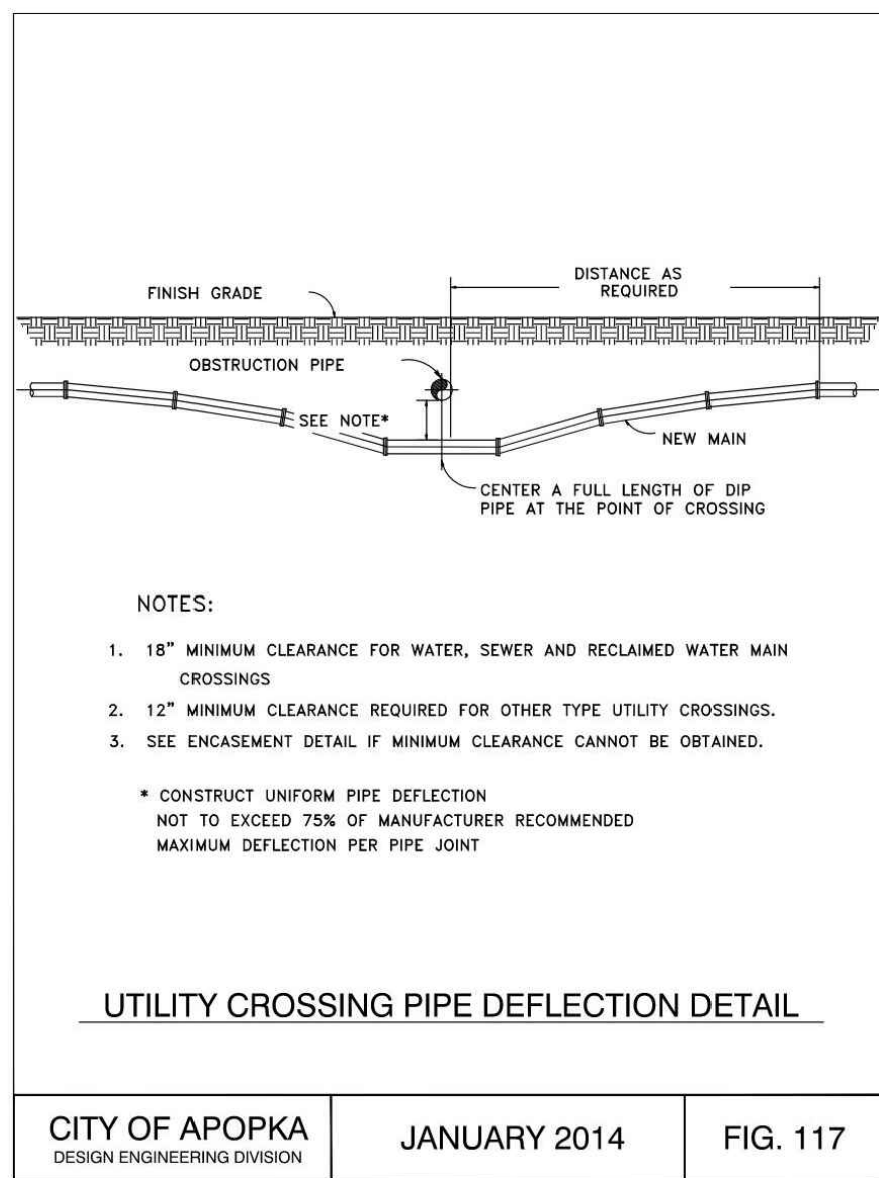
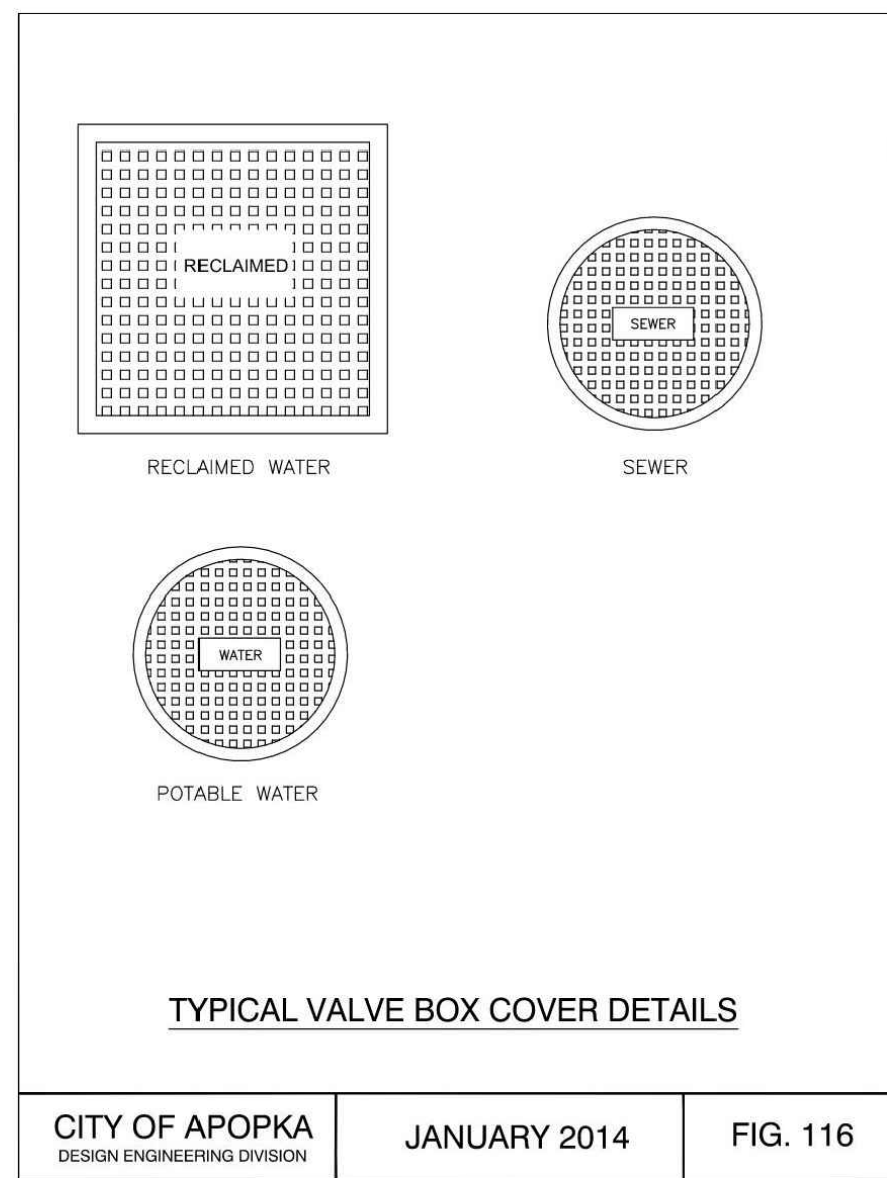
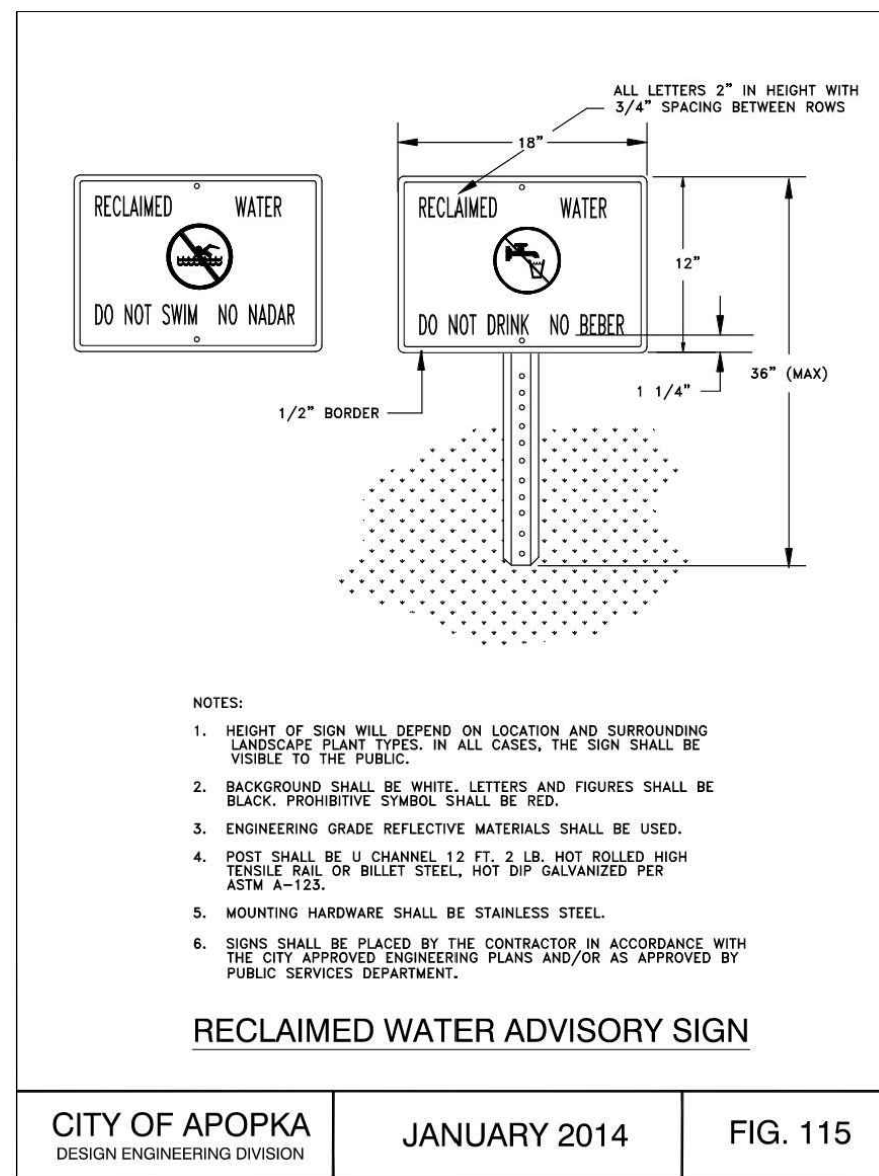
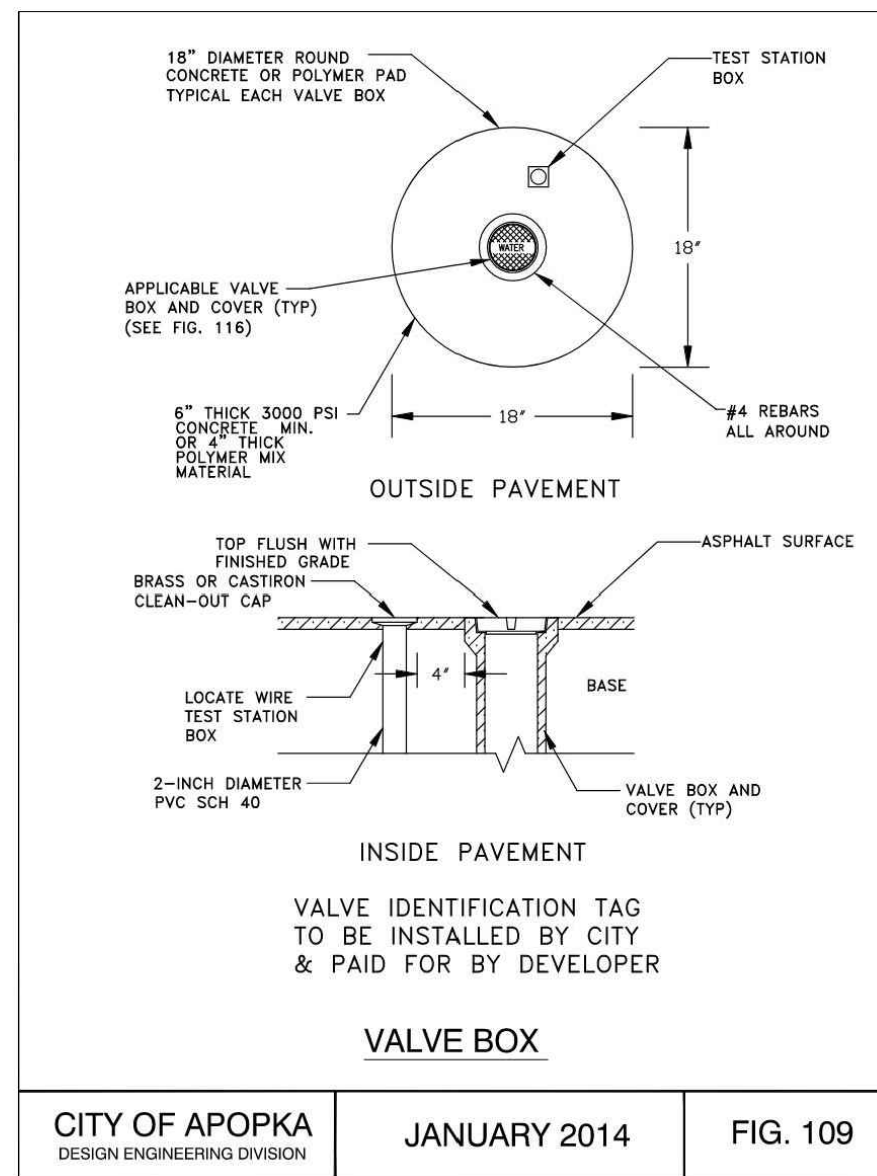
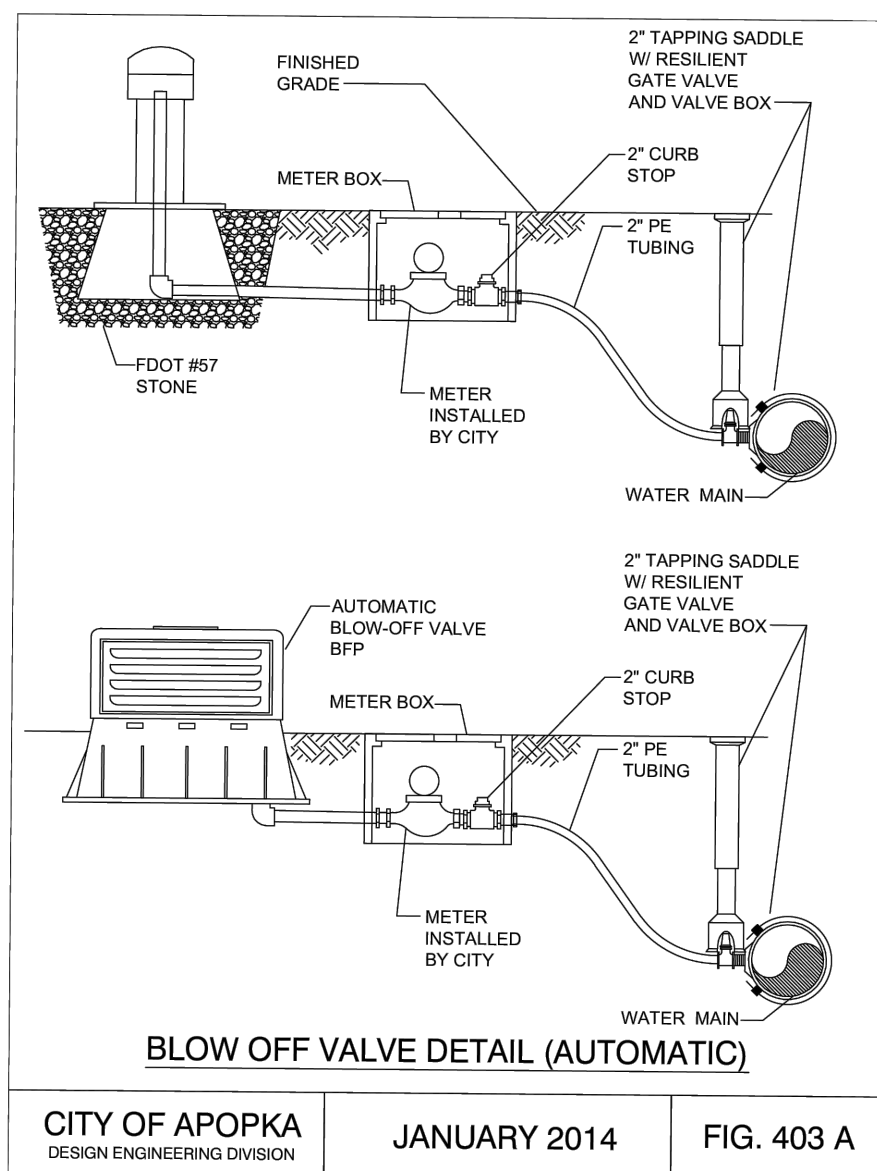
RESTRAINED PIPE TABLE (PVC)

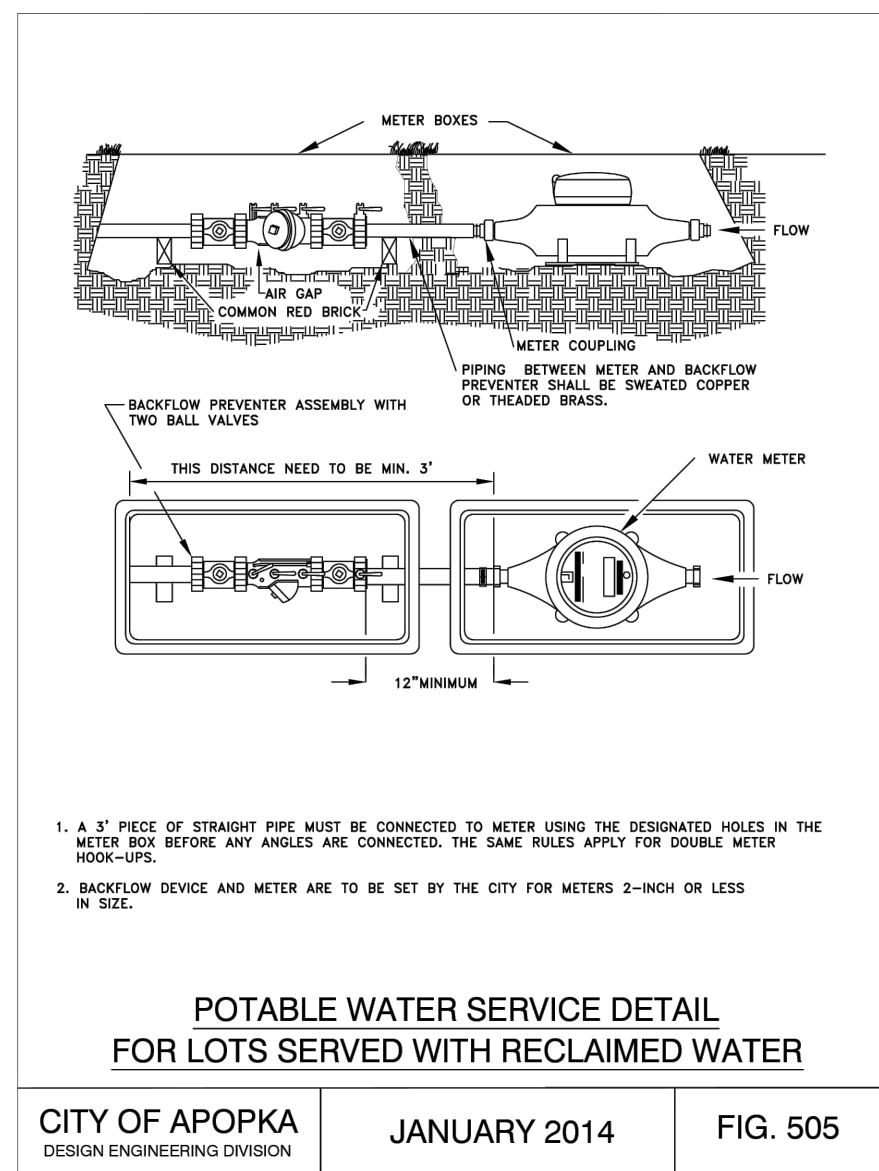
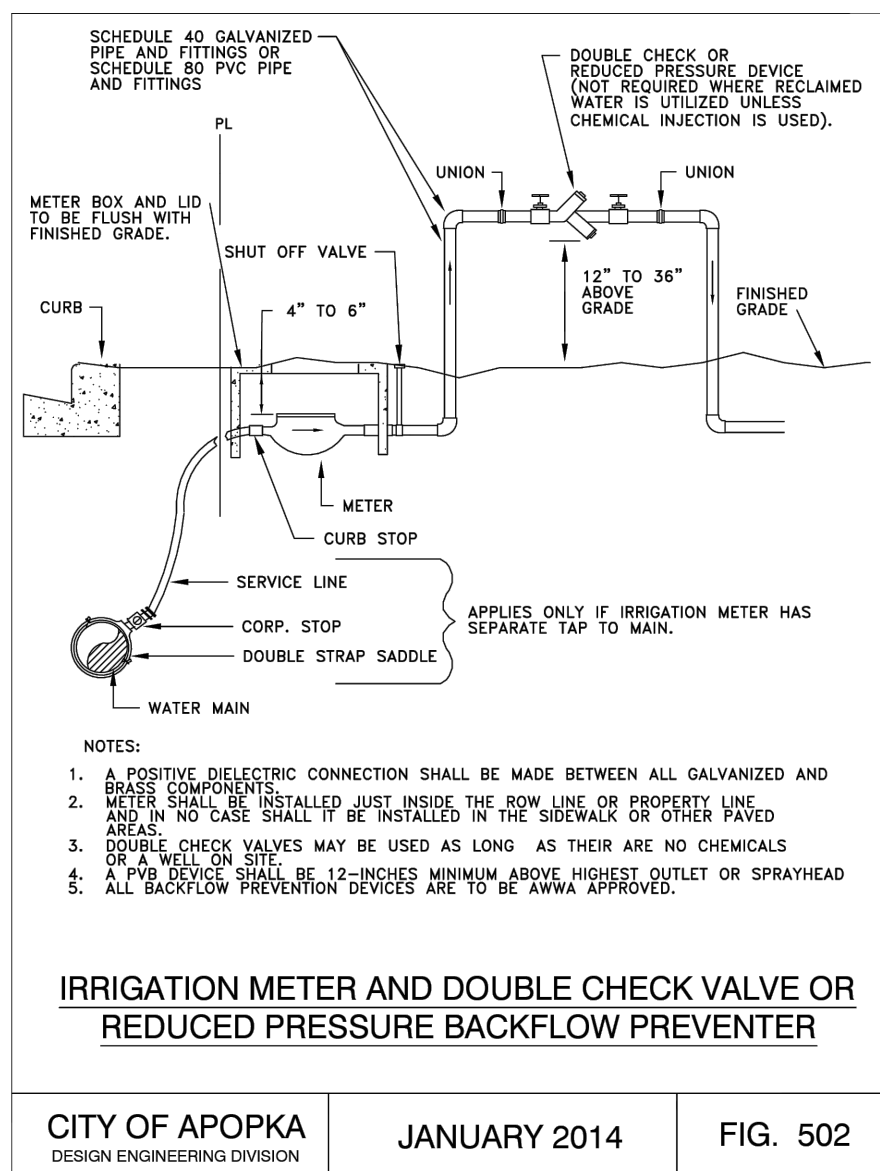
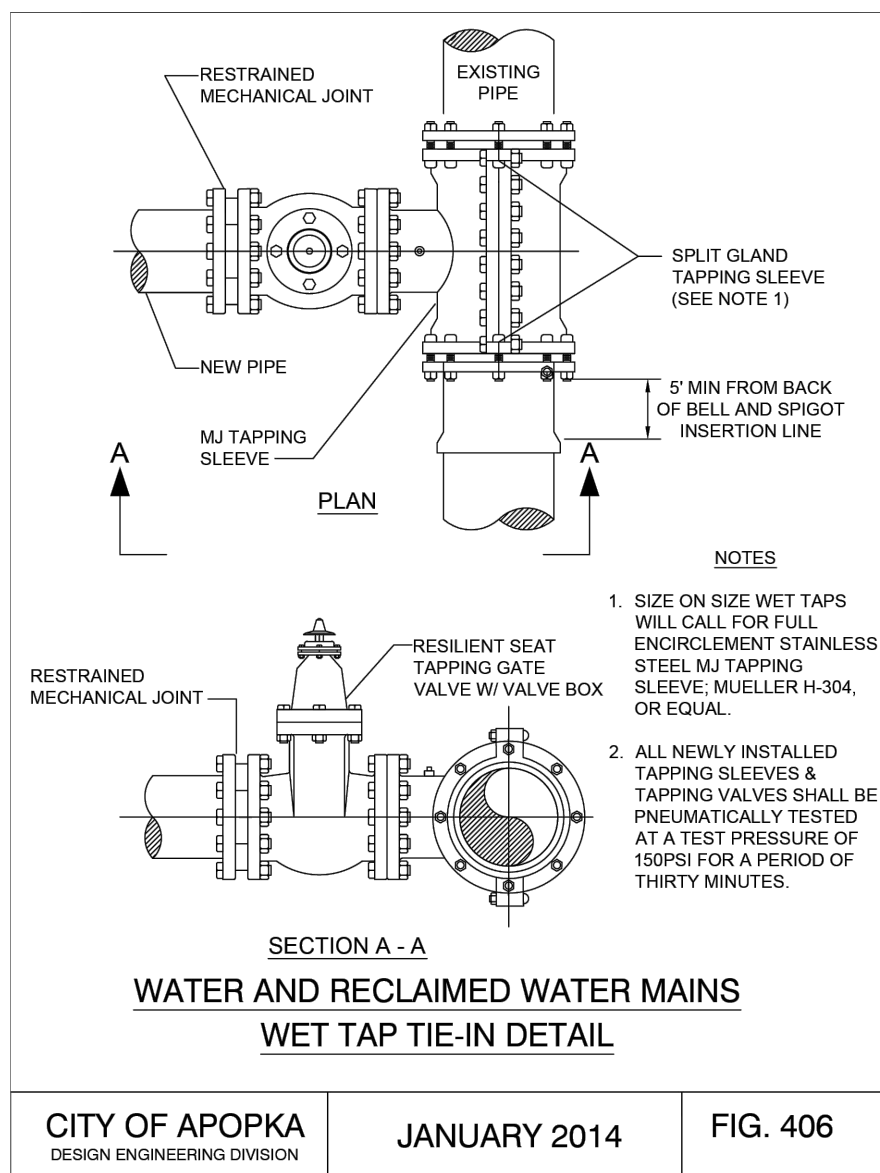
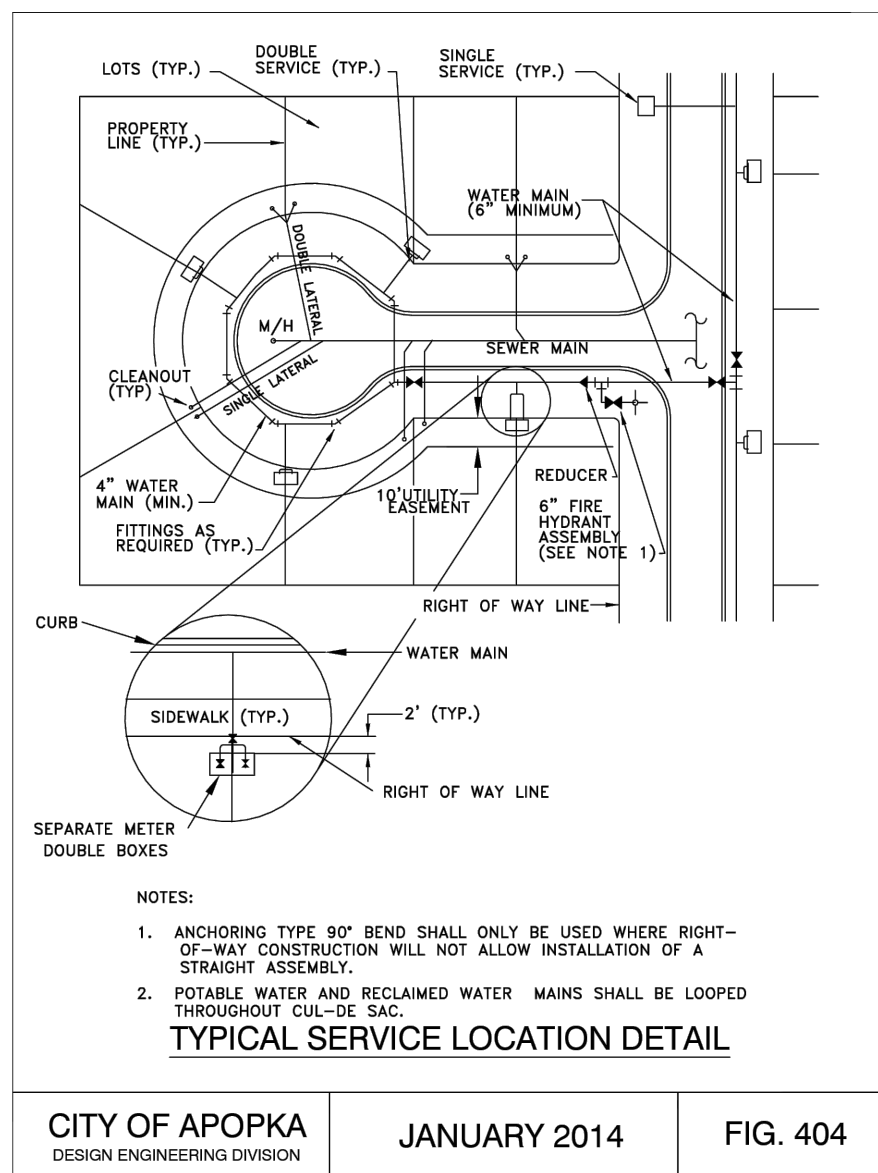
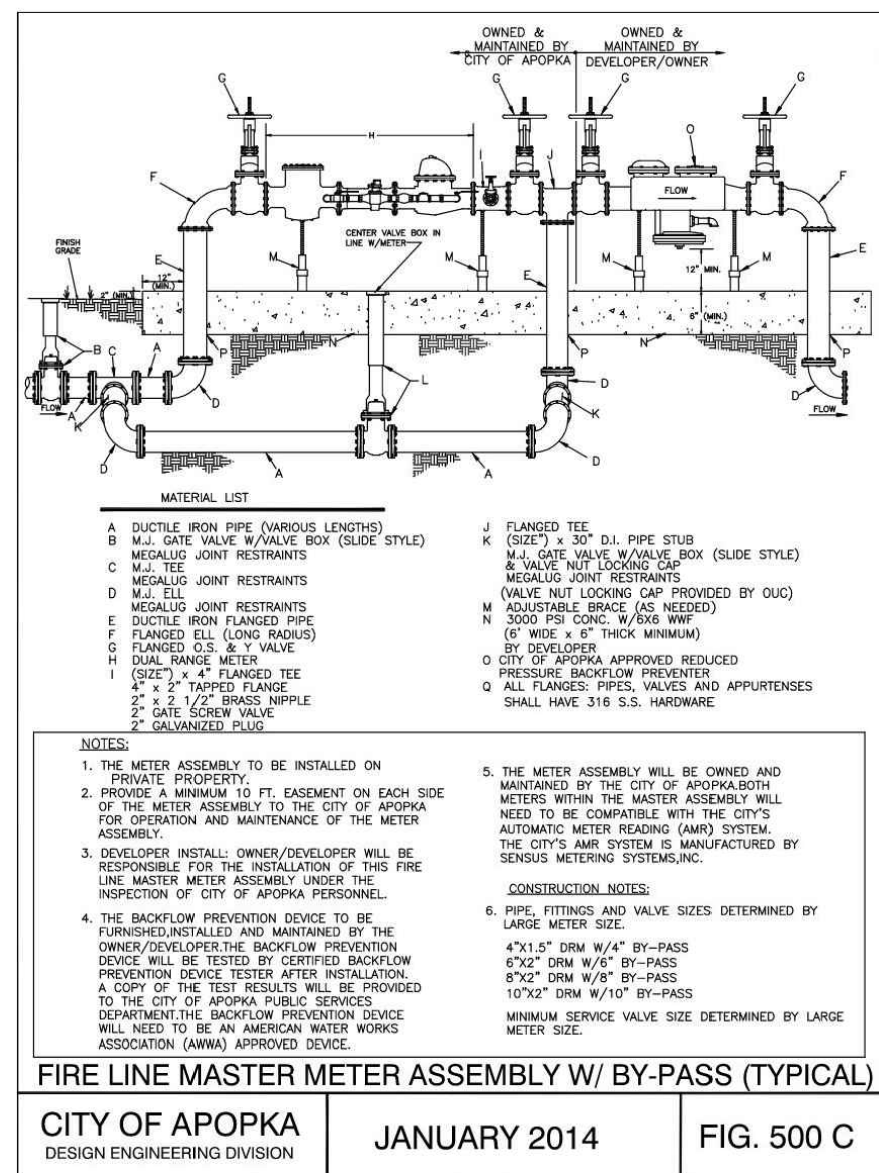
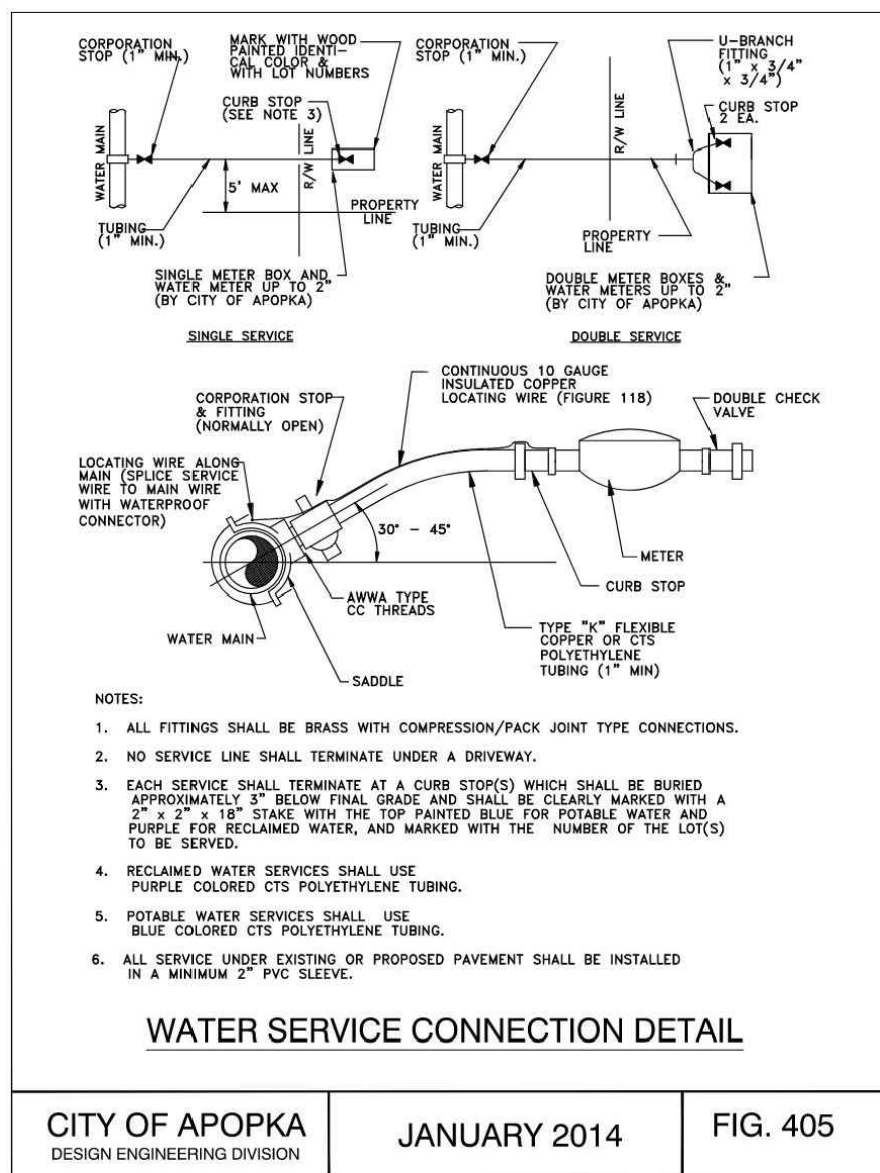
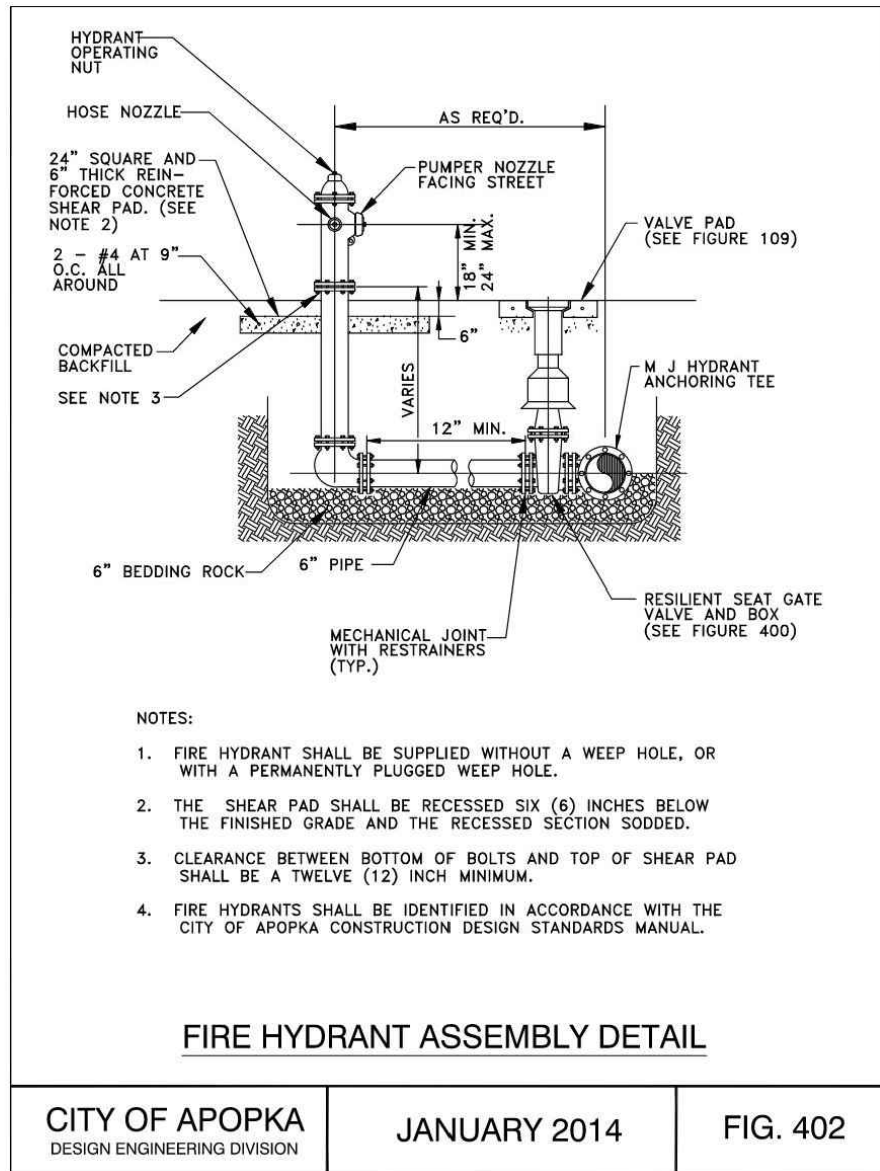
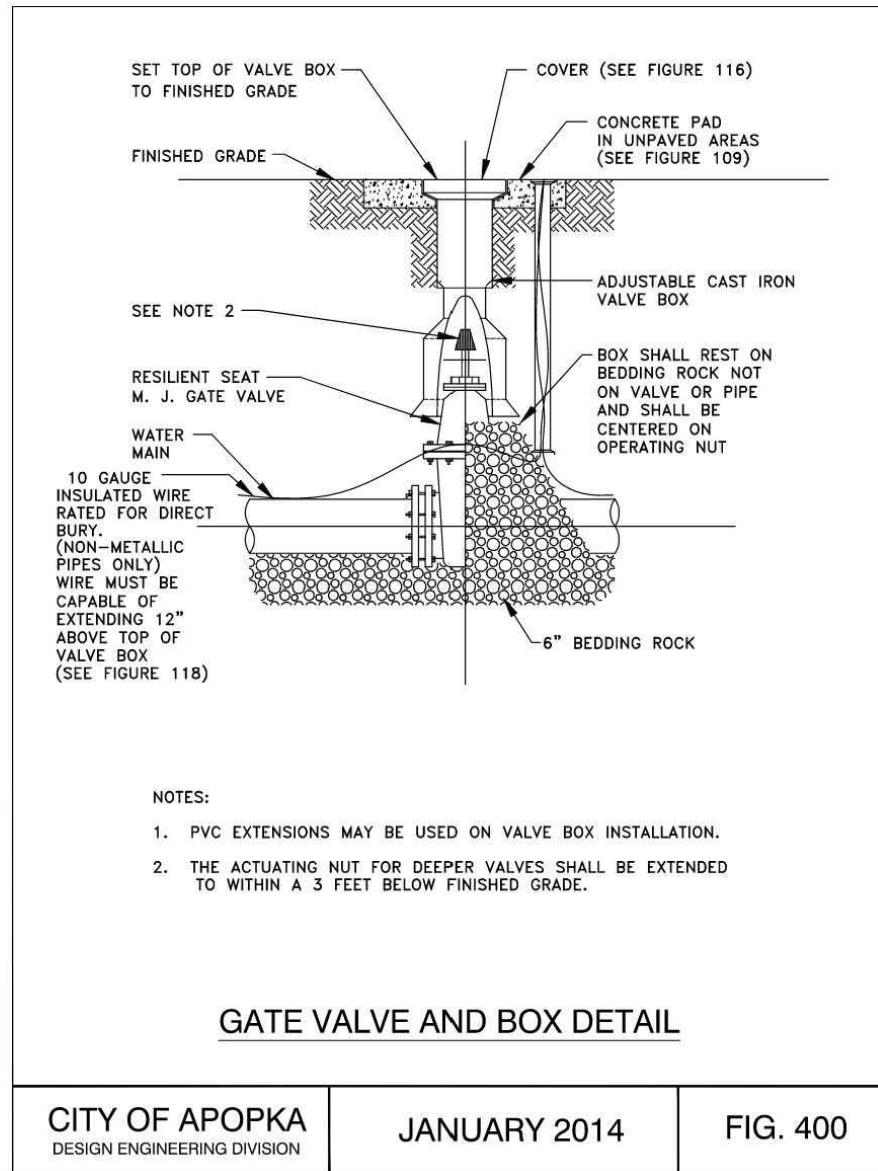
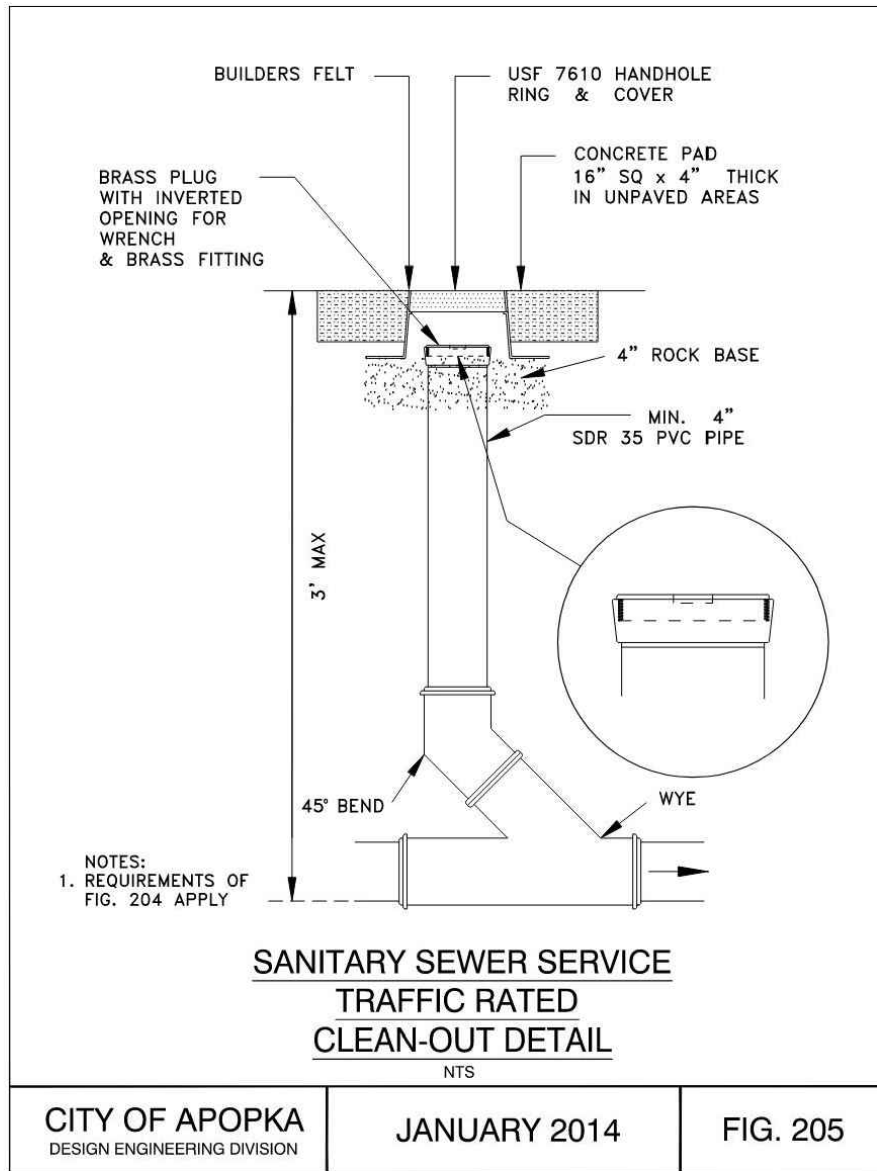
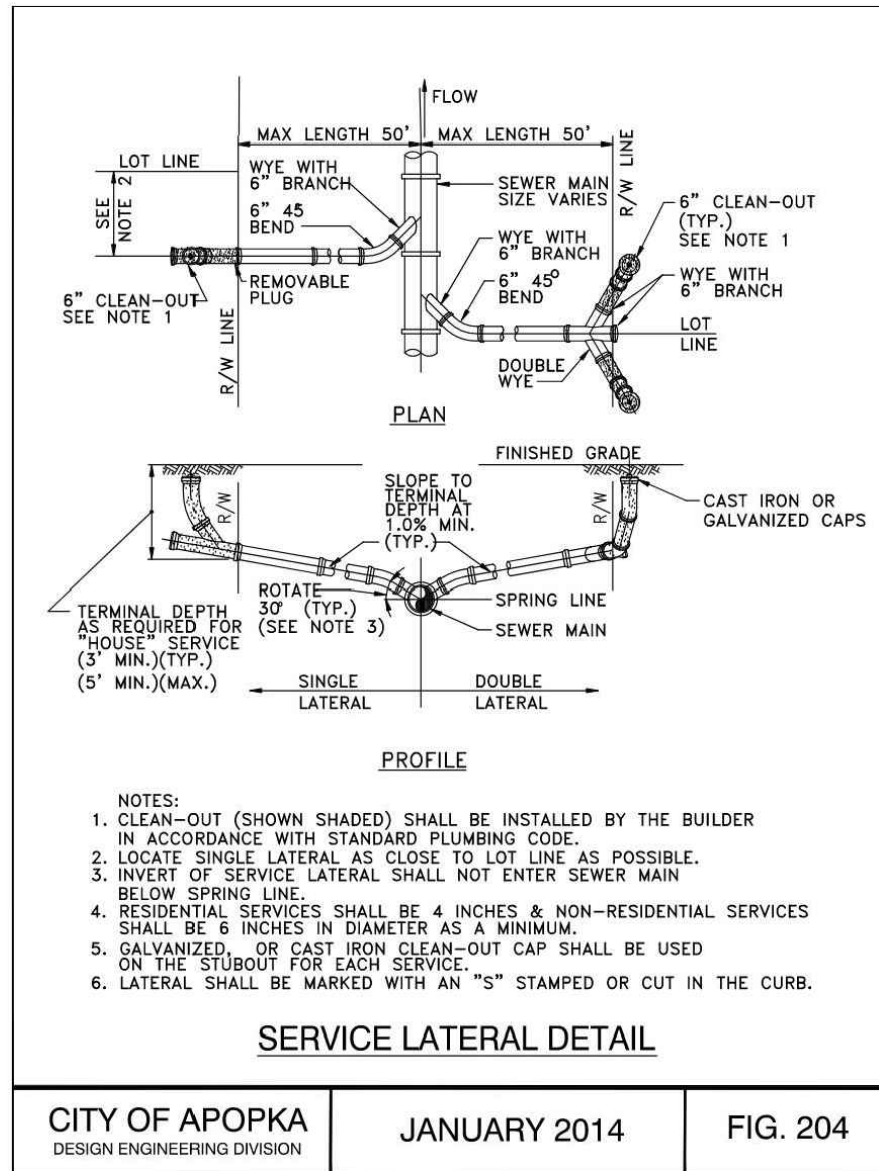
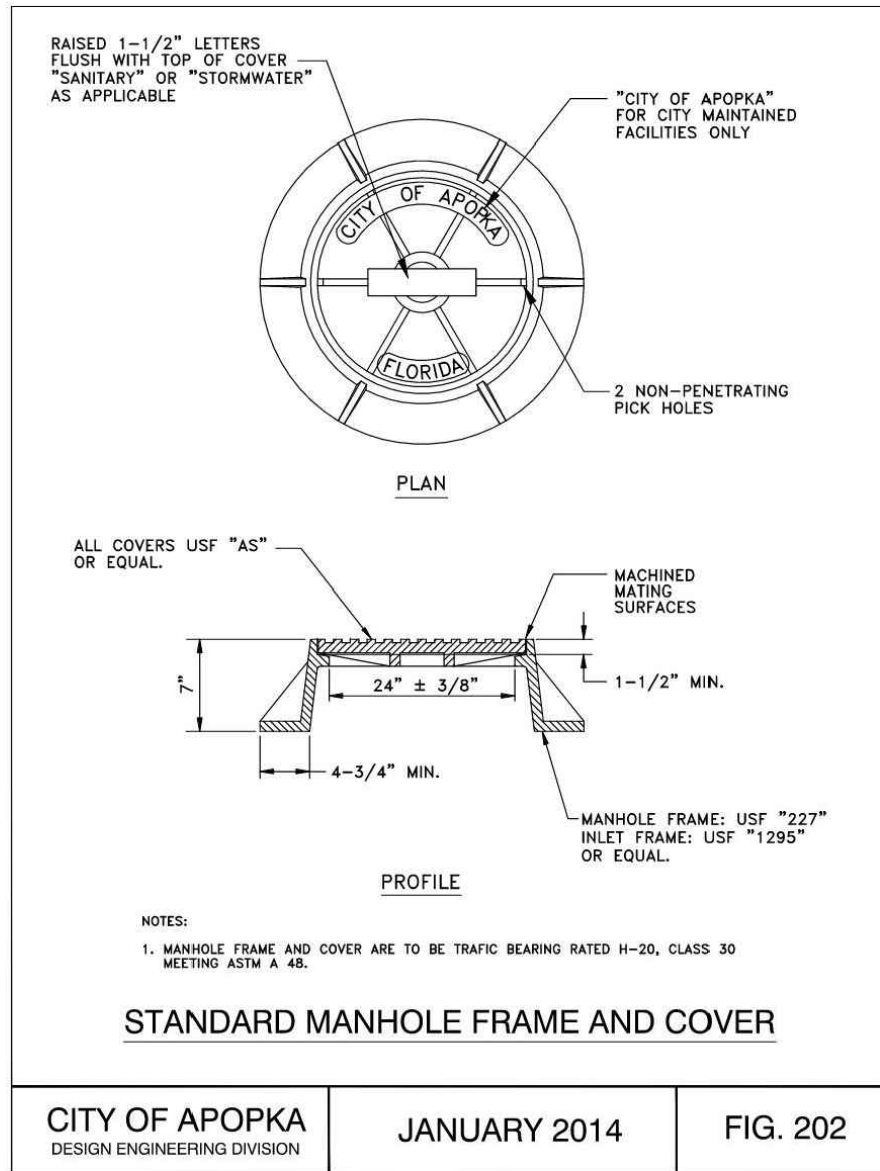
CITY OF APOPKA

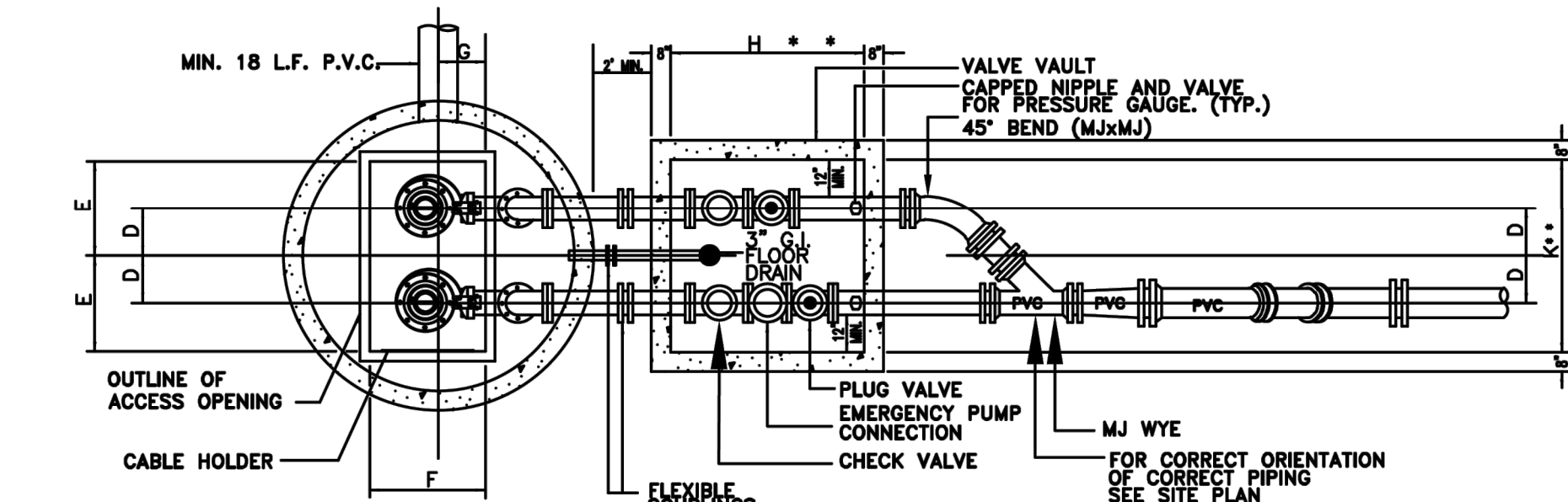
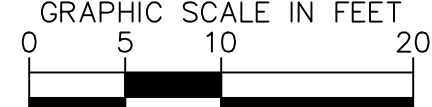
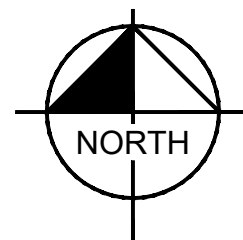
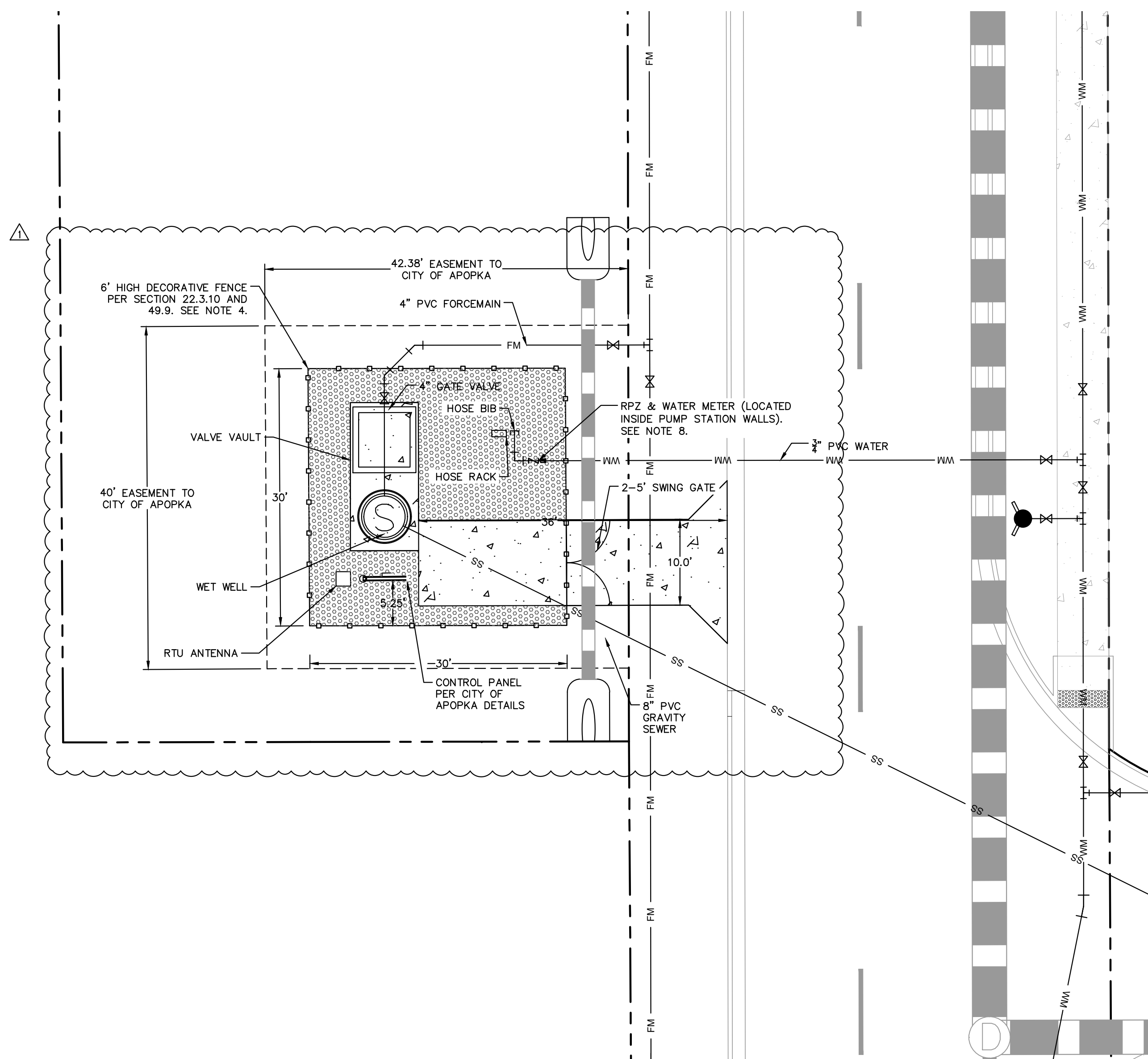
DESIGN ENGINEERING DIVISION

JANUARY 2014

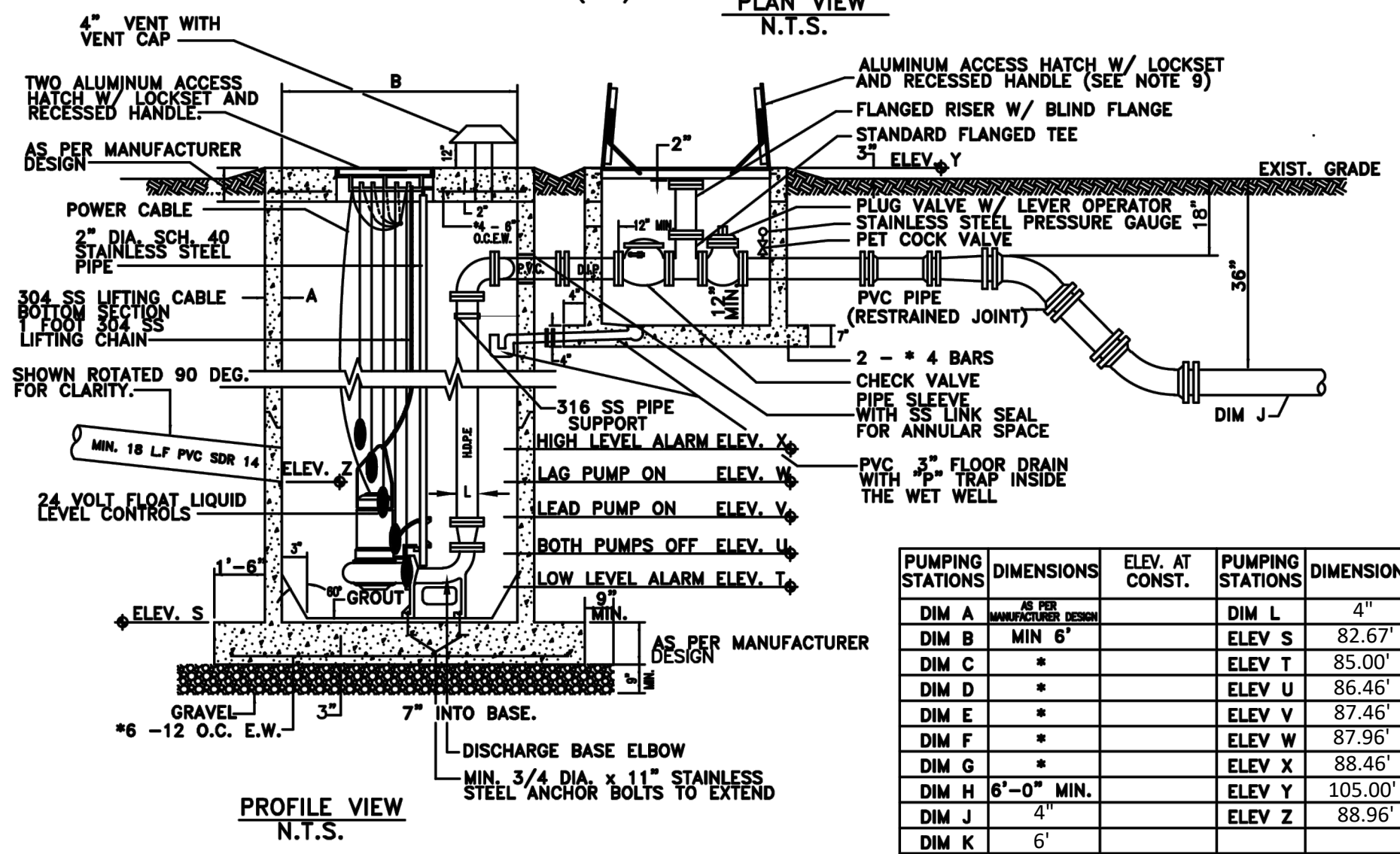
FIG. 105

[illegible]





PLAN VIEW
N.T.S.



PUMPING STATIONS	DIMENSIONS	ELEV. AT CONST.	PUMPING STATIONS	DIMENSIONS	ELEV. AT CONST.
DIM A	16' 0" MIN.		DIM L	82.67'	
DIM B	6' MIN.		ELEV S	81.21'	
DIM C	"		ELEV T	85.00'	
DIM D	"		ELEV U	86.46'	
DIM E	"		ELEV V	87.46'	
DIM F	"		ELEV W	87.96'	
DIM G	"		ELEV X	88.46'	
DIM H	6'-0" MIN.		ELEV Y	105.00'	
DIM J	4"		ELEV Z	88.96'	
DIM K	6'				

* PER PUMP MANUFACTURERS REQUIREMENT

GENERAL NOTES:

1. VALVE VAULT AND WET WELL LIDS SHALL BE COATED WITH 1 COAT OF TNEEC SERIES 66, COLOR ENOS, (2-3 MILS), FOLLOWED BY TOP COAT OF TNEEC SERIES 73, COLOR ENOS, (2-3 MILS) OR EQUAL.
- 2.A THE WET WELL SHALL BE CONSTRUCTED OF FIBERGLASS REINFORCED POLYESTER (RFP) AND MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR VINYL ESTER RESIN, WITH FIBERGLASS REINFORCEMENTS. THE WET WELL SHALL BE A ONE PIECE UNIT AND MANUFACTURED BY L.F. MANUFACTURE, INC. OR EQUAL.
- 2.B IN LIEU OF RFP THE WET WELL MAY BE CONSTRUCTED OF PRECAST CONCRETE HAVING A MINIMUM WALL THICKNESS OF 8 INCHES. THE INTERIOR WALLS SHALL BE FINISHED WITH HIGH DENSITY POLYETHYLENE PRODUCTION GRAY OR EQUIVALENT.
3. PIPING IN THE WET WELL TO BE HOPE WITH FUSED 45 DEGREES FITTINGS FROM WET WELL TO VALVE VAULT.
4. INTERIOR OF THE VALVE VAULT AND PIPING IN THE VALVE VAULT WITH ConSeal CS-55 (OR EQUAL), TWO COATS, 4 MILS EACH. PIPING SHALL BE COATED AFTER INSTALLATION.
5. VALVE VAULT SIZE SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 6" DIAMETER PIPE AND SMALLER. CLEARANCES SHALL INCREASE AS REQUIRED FOR LARGER PIPE SIZES.
6. VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.
7. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATER TIGHT WITH WALL SLEEVE AND STAINLESS STEEL LINK SEAL.
8. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
9. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY THE CITY.
10. FLEXIBLE COUPLING SHALL BE SLEEVE TYPE, EPOXY COATED.
11. PUMPS SHALL BE:
MANUFACTURER: FLYGT MODEL: NP 3127 S-3 DIA: 6 INCH SPEED: 168 GPM DISCHARGE SIZE: 3 IN.;
VOLTAGE: 230 HZ: 60 PHASE: 3 H.P.: 8 MIN. SOLID SIZE: --- IN.
12. OPERATING CONDITIONS SHALL BE 168 GPM AT 100 FEET TDH.
13. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL.
14. "P" TRAP TO BE INSTALLED IN WET WELL.
15. ALL PUBLIC LIFT STATIONS SHALL BE EQUIPPED WITH SCADA SYSTEM. THE DEVELOPER SHALL PAY THE CITY COST OF THE UNIT. THE CITY WILL BE RESPONSIBLE FOR INSTALLATION.
16. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.
17. ALL LIFT STATIONS SHALL HAVE A 10 FEET WIDE CONCRETE ACCESS DRIVEWAY, 35' LONG FROM EDGE OF WET WELL TO BACK OF CURB.
18. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN.) SITE SPECIFIC DETAIL.

PUMP STATION DETAIL

PUMP DATA	
DESIGN POINT	100 GPM @ 109.6 TDH
MANUFACTURER	FLYGT
MODEL	NP 3127
IMPELLER	146 MM
RPM	3515 RPM
HP	8 HP
DISCHARGE DIAMETER	3 INCH
PHASE	3
MAX CYCLES PER HOUR	30
VOLTAGE	230 V

NOTES:

1. DRIVEWAY AND APRON SHALL BE SIX (6) INCH THICK, 3000 P.S.I CONCRETE. WITH NO. 6X6 WIRE MESH OR FIBER MESH.
2. POWER SUPPLY TO THE PUMP STATION SHALL BE THROUGH UNDERGROUND CONDUIT FROM SUPPLY SOURCE IN THE RIGHT-OF-WAY.
3. GATE TO BE DECORATIVE BLACK POWER COATED ALUMINUM W/ PICKET SPACING = OR <4"
4. DECORATIVE FENCE TO BE SIX (6) FOOT HIGH DECORATIVE TYPE FENCING APPROVED BY THE CITY OF APOPKA, COMMUNITY DEVELOPMENT DEPARTMENT. CHAIN LINK OR WOODEN FENCING IS NOT ALLOWED.
5. WET WELL LID MUST OPEN TOWARD CONTROL PANEL (HINGE SIDE TOWARD PANEL).
6. LIFT STATION WALL TO BE PLACED AT LEAST 15FT. BEHIND THE R/W LINE.
7. CHANGE IN LOCATION OR ORIENTATION OF CONTROL PANEL MUST BE APPROVED BY CITY OF APOPKA STAFF PRIOR TO PANEL INSTALLATION.
8. WATER SERVICE REQUIRED VIA HOSE BIB. HOSE BIB TO BE PROTECTED BY A 3/4" RPZ.
9. CONTRACTOR TO REFER TO CITY OF APOPKA UTILITIES DESIGN AND CONSTRUCTION STANDARDS MANUAL (INCLUDING CHAPTERS 2, 4, 7, AND APPENDIX C) FOR FULL CITY SPECIFICATIONS.
10. TWO PUMPS ARE REQUIRED PER SECTION 22.2.2.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

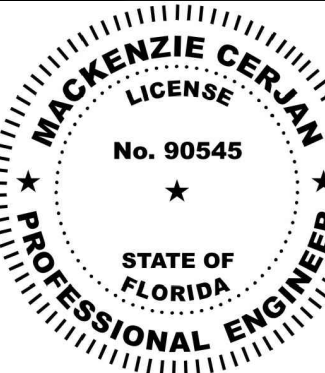
Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

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Kimley»»Horn

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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MACKENZIE CERJAN ON THE DATE
ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KHA PROJECT

DATE _____

DATE
05/01/2025

SCALE AS SHOWN

DESIGNED BY	MD
CLAIMED BY	MD

CHECKED BY MR

LIFT STATION PLAN

LOT 7 ACCESS ROAD

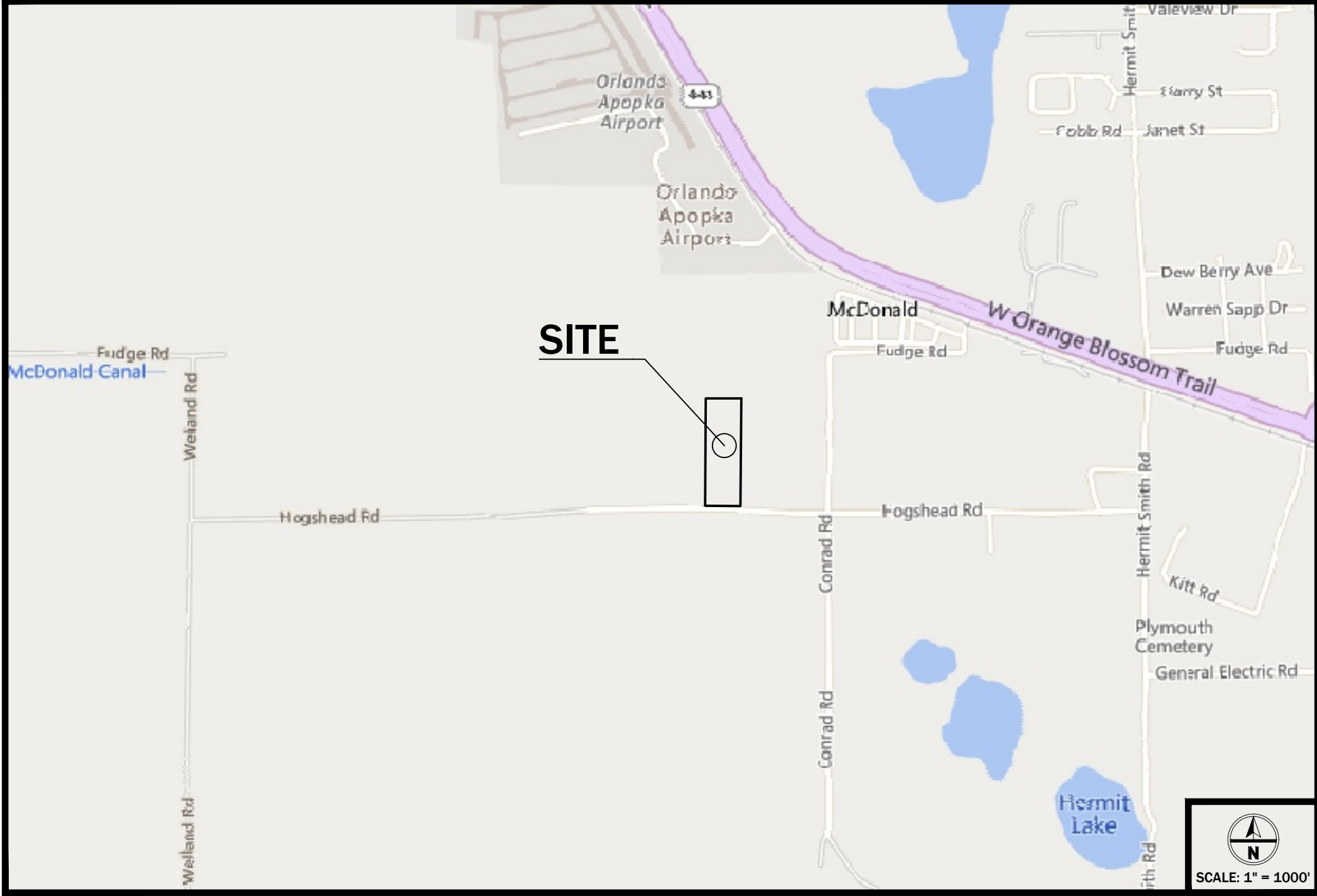
PREPARED FOR

KELLY PARK VB
DEVELOPMENT LLC

АРОРКА

SHEET NUMBER
LS-1

SITE LOCATION



AERIAL MAP



LEGAL DESCRIPTION FROM SURVEY PREPARED BY MCMAHON SURVEYING AND MAPPING LLC, DATED 07/17/23:

Commence at the Northeast corner of Section 2, Township 21 South, Range 27 East, Orange County, Florida; thence run South 89 degrees 38 minutes 25 seconds West along the North line of the Northeast Quarter of said Section 2, for 920.06 feet; thence run South 00 degrees 29 minutes 23 seconds East for 363.19 feet to the Point of Beginning of Tract 2; thence run North 89 degrees 13 minutes 13 seconds East for 165.77 feet; thence run South 00 degrees 01 minutes 11 seconds West for 891.54 feet to a point on the Northerly right-of-way line of Hogshead Road; thence run South 89 degrees 35 minutes 22 seconds West along said right-of-way line for 293.15 feet; thence run North 00 degrees 01 minutes 11 seconds East for 890.35 feet; thence run North 89 degrees 19 minutes 13 seconds East for 97.36 feet to the Point of Beginning.

PROJECT TEAM:

DEVELOPER / APPLICANT / OWNER

4203 HOGSHEAD LLC
2315 LYNX LANE SUITE 6
ORLANDO, FL 32804
EMAIL: CAM0875@EARTHLINK.NET

CIVIL ENGINEER

RITTER CIVIL, LLC
460 PINEY CROFT LANE
MAITLAND, FL 32751
PHONE: (407) 436 - 7276
EMAIL: GARTH@RITTERCIVIL.COM

SURVEYOR

MCMAHON SURVEYING & MAPPING, LLC
1690 TALL OAKS ROAD
DELAND, FL 32720
PHONE: (407) 399 - 2044
EMAIL: THOMASMCMAHONSURVEYOR@OUTLOOK.COM

GEOTECHNICAL ENGINEER

UES PROFESSIONAL SOLUTIONS, LLC
3532 MAGGIE BOULEVARD
ORLANDO, FLORIDA 32811
PHONE: (407) 423 - 0504

UTILITY PROVIDERS:

WATER / WASTEWATER

CITY OF APOPKA
748 E. CLEVELAND STREET
APOPKA, FL 32703
PHONE: (407) 703 - 1731

ELECTRIC

DUKE ENERGY
2955 E. SEMORAN BLVD
APOPKA, FL 32703
PHONE: (800) 778-9140

NATURAL GAS

LAKE APOPKA NATURAL GAS DISTRICT
1320 WINTER GARDEN VINELAND RD
WINTER GARDEN, FL 34787
PHONE: (407) 656-2734

COMMUNICATIONS

CENTURY LINK
715 DOUGLAS AVE SUITE #45,
ALAMONTE SPRINGS, FL 32714
PHONE: (877) 366-8344

4203 HOGSHEAD ROAD

CITY OF APOPKA, FL CONSTRUCTION SITE PLAN PARCEL ID # 02-21-27-0000-00-026

PROJECT NARRATIVE:
THIS PROJECT PROPOSES TO DEVELOP THE EXISTING ±6.00 AC LIGHT INDUSTRIAL PARCEL WITH A NEW ±4,318 SF OFFICE BUILDING WITH AN ATTACHED ±35,113 SF OPEN-AIR COVERED TRUSS ASSEMBLY AND STORAGE AREA, ALONG WITH A PAVED OUTDOOR STORAGE YARD, WALLED RETENTION POND, PARKING LOT AND DRIVEWAYS. THIS PROJECT PROPOSES 2 DRIVEWAY CONNECTIONS TO HOGSHEAD ROAD.

DRAWING INDEX

COVER SHEET	C1.0	△
GENERAL NOTES	C2.0 - C2.1	
EXISTING CONDITIONS PLAN	C3.0	
SEDIMENTATION & EROSION CONTROL PLAN	C4.0 - C4.1	
DEMOLITION PLAN	C5.0	
SITE PLAN	C6.0 - C6.1	△
PAVEMENT SECTIONS & DETAILS	C7.0	
GRADING & DRAINAGE PLAN	C8.0 - C8.1	
GRADING & DRAINAGE DETAILS	C9.0	△
UTILITY PLAN	C10.0	
UTILITY DETAILS	C11.0 - C11.3	
PARKING PLAN	C12.0	△
FIRE TRUCK ACCESS PLAN	C13.0	

PREPARED BY:

RITTER CIVIL

ENGINEERING - PLANNING

460 PINEY CROFT LANE MAITLAND, FL 32751
407-436-7276 ■ WWW.RITTERCIVIL.COM

PREPARED FOR:

4203

HOGSHEAD LLC

COVER SHEET

4203 HOGSHEAD ROAD

ISSUE DATE:	10/07/2025	01/30/2026 - UPDATE BUILDING PER AHI COMMENTS
REVISION:	1	
REVISION:		
REVISION:		
REVISION:		
REVISION:		
REVISION:		

GARTH R. RITTER

LICENSE

No. 79364

STATE OF FLORIDA

PROFESSIONAL ENGINEER

CIVIL DISCIPLINE ONLY

This item has been digitally signed and sealed by Garth R. Ritter on the date adjacent to the seal. Signature must be verified on any electronic copies.

DRAFTED:

DESIGNED:

REVIEWED:

PROJECT NUMBER:

GPR

GPR

GRR

23027

SHEET:

C1.0

RITTER CIVIL LLC RESERVES THE EXCLUSIVE COPYRIGHT AND PROPERTY RIGHTS TO THESE DRAWINGS. NO ONE CAN BE ASSIGNED TO ANY PARTY WITHOUT RITTER CIVIL LLC'S WRITTEN CONSENT.

OR M23 AS APPLICABLE TO PIPE MATERIAL, FDEP, LOCAL AND/OR UTILITY PROVIDER REGULATIONS, WATER AND FIRE MAINS SHALL BE TESTED AT 150 PSI FOR A MINIMUM OF 2 HOURS, AND MEET AWWA STANDARDS FOR THEIR RESPECTIVE MATERIAL.

• DISINFECTION & BACTERIOLOGICAL SAMPLE TESTS: THE CONTRACTOR SHALL FLUSH AND DISINFECT ALL WATER MAINS IN ACCORDANCE WITH AWWA C651, LOCAL JURISDICTION OR UTILITY PROVIDER REQUIREMENTS. ALL WATER SAMPLE LOCATIONS FOR BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH FDEP PERMIT REQUIREMENTS.

E. RECLAIM WATER SYSTEM TESTING, AT A MINIMUM, SHALL INCLUDE:

• PRESSURE AND LEAKAGE TEST: THE CONTRACTOR SHALL PERFORM A HYDROSTATIC PRESSURE AND LEAKAGE TEST OF THE WATER SYSTEM IN ACCORDANCE WITH AWWA STANDARDS C600, C605, OR M23 AS APPLICABLE TO PIPE MATERIAL, LOCAL AND/OR UTILITY PROVIDER REGULATIONS. RECLAIM WATER MAINS SHALL BE TESTED AT 200 PSI FOR A MINIMUM OF 2 HOURS, AND MEET AWWA STANDARDS FOR THEIR RESPECTIVE MATERIAL.

F. SANITARY GRAVITY SEWER SYSTEM TESTING AND INSPECTION, AT A MINIMUM, SHALL INCLUDE:

• LAMPING & VIDEO INSPECTION: THE CONTRACTOR SHALL LAMP AND VIDEO INSPECT EACH MAIN IN ACCORDANCE WITH THE UTILITY PROVIDER REQUIREMENTS, FOR ALIGNMENT, GRADE VARIATIONS, JOINT SEPARATION, LEAKS, DEFLECTION, DAMAGE OR OTHER DEFECTS IN THE PIPE MATERIALS OR THEIR INSTALLATION.

• DEFLECTION TESTS: AFTER FINAL BACKFILL IS IN PLACE FOR AT LEAST 30 DAYS, THE CONTRACTOR SHALL CONDUCT A DEFLECTION TEST UTILIZING A RIGID BALL OR MANDREL IN NOT LESS THAN 95% OF THE MAIN'S BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER AS SPECIFIED IN THE ASTM SPECIFICATIONS. NO MECHANICAL PULPING DEVICES SHALL BE USED FOR TESTING. ALL PIPES SHALL NOT EXCEED A 5% DEFLECTION.

• VACUUM TESTING: ALL WASTEWATER MANHOLES SHALL BE VACUUM TESTED PER ASTM C1244 FOR CONCRETE MANHOLES.

• LEAKAGE TESTS: THE CONTRACTOR SHALL PERFORM LOW-PRESSURE AIR TESTS ON ALL GRAVITY MAINS AND LATERALS IN ACCORDANCE PROCEDURES DESCRIBED WITH ASTM F1417 FOR PLASTIC PIPE. MAINS SHALL BE TESTED BETWEEN MANHOLES WITH TESTING SECTIONS NOT TO EXCEED 400 FEET IN LENGTH.

G. SANITARY FORCE MAIN TESTING, AT A MINIMUM, SHALL INCLUDE:

• PRESSURE AND LEAKAGE TEST: THE CONTRACTOR SHALL PERFORM A HYDROSTATIC PRESSURE AND LEAKAGE TEST OF THE FORCE MAIN SYSTEM IN ACCORDANCE WITH AWWA STANDARDS C600, C605, OR M23 AS APPLICABLE TO PIPE MATERIAL, FDEP, LOCAL AND/OR UTILITY PROVIDER REGULATIONS. FORCE MAINS SHALL BE TESTED AT 150 PSI FOR A MINIMUM OF 2 HOURS, AND MEET AWWA STANDARDS FOR THEIR RESPECTIVE MATERIAL.

SIGNAGE AND PAVEMENT MARKINGS:

42. ALL SIGNAGE AND PAVEMENT MARKING MATERIALS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, THE FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND LOCAL CODE.

43. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED AND APPROVED ON THE PLANS. ALL THERMOPLASTIC AND PAINT MATERIALS SHALL BE CERTIFIED FREE OF LEAD.

44. ALL HANDICAP PARKING SPACES SHALL BE DESIGNATED WITH PAVEMENT MARKINGS AND SIGNAGE IN ACCORDANCE WITH ADA REQUIREMENTS.

45. ALL REGULATORY TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO FINAL INSPECTION OF ROADWAY IMPROVEMENTS.

46. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS DEPICTED ON THE CONSTRUCTION PLANS.

47. FIRE HYDRANTS SHALL BE LOCATED WITH BLUE REFLECTIVE PAVEMENT MARKERS, PLACED OPPOSITE FIRE HYDRANTS IN THE CENTER OF THE NEAREST TRAVEL LANE.

AS-BUILTS & CERTIFICATION:

48. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REQUEST THE MINIMUM AS-BUILT REQUIREMENTS OF THE APPLICABLE PERMITTING AGENCIES AND/OR UTILITY PROVIDER AND BECOME FAMILIAR WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILTS OF INSTALLED IMPROVEMENTS SATISFYING THE MINIMUM SUBMITTAL REQUIREMENTS OF THE APPLICABLE PERMITTING AGENCIES AND/OR UTILITY PROVIDER.

49. AS-BUILT DRAWINGS SHALL BE PREPARED AND CERTIFIED AS CORRECT BY A FLORIDA LICENSED LAND SURVEYOR AND PROVIDED TO THE ENGINEER FOR REVIEW.

50. UNLESS OTHERWISE DIRECTED BY RITTER CIVIL, LLC, ALL AS-BUILT INFORMATION AND LINEWORK DEPICTING CONSTRUCTED IMPROVEMENTS SHALL BE OVERLAID IN BOLD OVER A GRAYSCALE VERSION OF THE APPROVED PLAN SHEETS. WHERE DEVIATIONS FROM THE APPROVED PLANS OCCUR, THE AS-BUILT SURVEYOR SHALL STRIKE OUT THE APPLICABLE CALLOUTS ON THE APPROVED PLANS AND PROVIDE THE AS-BUILT INFORMATION.

51. IN ADDITION TO THE MINIMUM AS-BUILT REQUIREMENTS OF THE APPLICABLE PERMITTING AGENCIES AND/OR UTILITY PROVIDER, AS-BUILT DRAWINGS SHALL CONTAIN THE FOLLOWING INFORMATION:

A. SANITARY SEWER SYSTEM

- HORIZONTAL LOCATION & TOP ELEVATIONS OF EACH MANHOLE/STRUCTURE FRAME AND COVER
- PIPE SIZE AND MATERIAL (IF ALTERNATE MATERIAL WAS APPROVED)
- INVERTS OF ALL PIPES ENTERING AND/OR LEAVING EACH MANHOLE/STRUCTURE
- LENGTHS OF EACH RUN OF MAIN BETWEEN MANHOLES/STRUCTURES, MEASURED CENTER TO CENTER
- INVERTS OF PIPE CONNECTIONS TO EXISTING MANHOLES/STRUCTURES
- AS-BUILT SLOPE OF PIPE BETWEEN MANHOLES/STRUCTURES
- LENGTH OF ALL SERVICE WYES, LOCATION AND DEPTH AT LOT LINE OR INVERT AT CLEAN-OUT LOCATION.
- LOCATION & ELEVATION OF ALL FITTINGS AND ACCESSORIES NOT VISIBLE TO THE SURFACE.

B. STORM SEWER SYSTEM

- HORIZONTAL LOCATION & TOP ELEVATIONS OF EACH MANHOLE/STRUCTURE FRAME, COVER OR GRATE
- OUTFALL AND CONTROL STRUCTURE COMPONENTS INCLUDING BUT NOT LIMITED TO WEIR ELEVATIONS, DIMENSIONS, ORIFICE PIPE SIZE AND INVERTS, AND SKIMMER DIMENSIONS
- PIPE SIZE AND MATERIAL (IF ALTERNATE MATERIAL FROM THE PLANS WAS APPROVED)
- INVERTS OF ALL PIPES ENTERING AND/OR LEAVING EACH MANHOLE/STRUCTURE, INCLUDING UNDERDRAINS
- INVERTS OF MITERED END SECTIONS, ENDWALLS, OR INVERT OF PIPE CONNECTIONS TO EXISTING SYSTEMS
- AS-BUILT GRADE OF PIPE BETWEEN MANHOLES/STRUCTURES
- LOCATION AND INVERT ELEVATION OF ALL STORM STUB-OUTS
- UNDERDRAIN LOCATIONS

C. PRESSURE SYSTEMS (WATER/ RECLAIM /FORCE MAIN)

- LOCATION AND TOP ELEVATION OF ALL MAINS, SERVICE LINES AND FIRE APPARATUS
 - LOCATION AND TOP ELEVATION OF ALL VALVES AND FITTINGS
 - PIPE SIZE AND MATERIAL (IF ALTERNATE MATERIAL FROM THE PLANS WAS APPROVED)
 - ALL UTILITY CROSSINGS WITH CLEARANCES MEASURED FROM OUTSIDE OF PIPE. AS-BUILTS SHALL CLEARLY DEMONSTRATE COMPLIANCE WITH MINIMUM SEPARATION DISTANCES.
- D. GRADING & STORMWATER FACILITIES
- POND ELEVATIONS INCLUDING TOP OF BANK, GRADE BREAKS, AND POND BOTTOM
 - SWALE / DITCH TOP AND BOTTOM ELEVATIONS
 - ELEVATIONS FOR ALL SPOT GRADES SHOWN IN PROPOSED PAVEMENT AREAS
 - ELEVATIONS ON RESIDENTIAL LOT CORNERS, GRADE BREAKS ON LOT LINES, AND CENTER OF BUILDING PAD
 - TOP AND BOTTOM OF RETAINING WALL ELEVATIONS
 - ALONG ALL PROPOSED ROADWAYS, SPOT GRADES AT EVERY MAJOR STATION AND PV SHALL BE PROVIDED AT CROWN, EDGE OF PAVEMENT, TOP OF CURB, AND BACK OF SIDEWALK OR RIGHT OF WAY LINE.

52. AS-BUILTS FOR ALL UNDERGROUND STORMWATER DRAINAGE AND UTILITY IMPROVEMENTS MUST BE SUBMITTED TO THE ENGINEER AND ACCEPTED PRIOR TO CONSTRUCTION OF PAVING IMPROVEMENTS.

53. NO ENGINEER'S CERTIFICATION OF COMPLETION WILL BE ISSUED UNTIL COMPLETE AS-BUILT DRAWINGS HAVE BEEN PROVIDED AND ACCEPTED. PARTIAL AS-BUILTS MAY BE PROVIDED FOR SPECIFIC PURPOSES SUCH AS FDEP CLEARANCES.

54. THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER, RETEST OR PERFORM ANY NECESSARY ACTION TO CONFIRM THAT ALL IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

REVISIONS:

55. CLOUDED REVISIONS ARE INTENDED TO AID THE CONTRACTOR, BUT DO NOT RELIEVE THE CONTRACTOR FROM IDENTIFYING ANY ADDITIONAL CHANGES AS A RESULT OF THE CLOUDED REVISIONS. THE CONTRACTOR SHALL REVIEW THE REVISION CHANGES IN RELATION TO THE CONSTRUCTION PLANS IN THEIR ENTIRETY BEFORE PROCEEDING.

MATERIAL SPECIFICATIONS:

1. GENERAL:

A. THE CONTRACTOR SHALL REVIEW THESE MATERIAL SPECIFICATIONS AGAINST THOSE OF THE AUTHORITY HAVING JURISDICTION (AHJ). WHEREVER THE BELOW STANDARDS DIFFER FROM THE REQUIREMENTS OF THE AHJ, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION. TYPICALLY THE AHJ REQUIREMENT SHALL APPLY.

B. MATERIAL FURNISHED UNDER THESE REQUIREMENTS SHALL BE IN NEW CONDITION, FREE OF DEFECTS, AND HIGH GRADE.

2. PAVING AND DRAINAGE:

A. ALL STORM PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE PER ASTM C-76, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE NOT ACCEPTABLE. PIPES SHALL BE JOINED USING A BELL AND SPIGOT JOINT, WITH COMPRESSION GASKETS MEETING THE REQUIREMENTS OF ASTM C443 AND WRAPPED PER FDOT INDEX 430-001.

B. HP PIPE ALTERNATIVE: WHERE LOCAL MUNICIPALITIES ALLOW, HIGH DENSITY POLYPROPYLENE (HP) PIPE MAY BE SUBSTITUTED AS AN ALTERNATE TO RCP. HP STORM PIPE, 12 INCH THROUGH 60 INCH, SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND SHALL MEET ASTM F2881 OR AASHTO M330. PIPES SHALL BE JOINED USING A BELL AND SPIGOT JOINT. JOINTS SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE PLASTIC WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT AVAILABLE FROM THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING ASSEMBLY. EXTERIOR BELL WRAPS SHALL BE INSTALLED BY THE MANUFACTURER.

C. ALL STORM PIPES SHALL BE INSTALLED, LASER PROFILED AND VIDEOED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.

D. STORM CLEANOUTS LOCATED IN PAVED AREAS SHALL BE TRAFFIC BEARING. STORM STRUCTURES AND MANHOLES SHALL HAVE TRAFFIC BEARING GRATES OR LIDS. ALL GRATES AND LIDS SHALL BE SET FLUSH WITHOUT MOVEMENT WHEN SUBJECTED TO VEHICLE TRAFFIC.

E. ALL YARD DRAINS SHALL BE NOS IN-LINE DRAINS AND DRAIN BASINS WITH WATER TIGHT ADAPTER CONNECTIONS, OR ENGINEER APPROVED EQUAL. CATCH BASIN RISER (NDS#1216) SHALL BE USED IN SHRUB AREAS. 12" SQUARE FLAT GRATES (NDS#1211) SHALL BE USED IN TURF AREAS. REFER TO LANDSCAPE PLANS FOR GRATE TYPE SUITABLE FOR THE LOCATION.

F. YARD DRAIN PIPING UNDER PAVEMENT AREAS SHALL BE ASTM D3034 SDR 35 PVC OR ENGINEER APPROVED EQUAL. YARD DRAIN PIPING OUTSIDE OF PAVEMENT AREAS SHALL BE ASTM D3034 SDR 35 PVC OR HEAVY DUTY CORRUGATED POLYETHYLENE (HDPE). SELECTED MATERIALS SHALL BE CONSISTENT THROUGHOUT THE PROJECT.

G. ALL TYPE "P" STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE NOTED AND SHALL HAVE A 4 FOOT DIAMETER.

H. ALL UNDERDRAIN SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) HEAVY-DUTY CORRUGATED POLYETHYLENE PIPE WITH FACTORY INSTALLED FILTER FABRIC, OR APPROVED EQUAL.

I. ALL UNDERDRAIN DISCHARGE PIPE SHALL BE NON-PERFORATED ASTM D3034 SDR 35 PVC WITH ELASTOMERIC JOINTS.

J. AGGREGATE USED FOR ANY EXFILTRATION TRENCH SHALL BE NON-LIMESTONE BASED NATURALLY OCCURRING MATERIAL. CRUSHED OR RECYCLED CONCRETE IS NOT PERMITTED FOR USE IN THE EXFILTRATION TRENCH.

K. STORM CLEANOUTS LOCATED IN PAVED AREAS SHALL BE TRAFFIC BEARING. STORM STRUCTURES AND MANHOLES SHALL HAVE TRAFFIC BEARING GRATES OR LIDS. ALL GRATES AND LIDS SHALL BE SET FLUSH WITHOUT MOVEMENT WHEN SUBJECTED TO VEHICLE TRAFFIC.

L. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS III UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS.

3. POTABLE WATER AND FIRE MAINS:

A. WATER AND FIRE MAINS, FITTINGS, VALVES, AND APPURTENANCES SHALL MEET ALL APPLICABLE UTILITY PROVIDER MATERIAL SPECIFICATIONS AND BE IDENTIFIED WITHIN THE APPROVED PRODUCT LIST PUBLISHED BY THE PROVIDER. IF UTILITY PROVIDER MATERIAL SPECIFICATIONS ARE NOT DEFINED, MINIMUM MATERIAL SPECIFICATIONS SHALL BE AS FOLLOWS:

B. WATER MAINS 1.1/2" TO 3" AND FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D3139 AND GASKETS PER ASTM F477.

C. WATER AND FIRE MAINS 4" TO 12" SHALL BE PVC (UNLESS OTHERWISE CALLED FOR) MEETING THE REQUIREMENTS OF AWWA C900 CLASS 150 DR18 AND ASTM D1784 AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D3139 AND GASKETS PER ASTM F477.

D. WATER AND FIRE MAINS SHALL BE DUCTILE IRON WHEN CALLED FOR, WITH MIN PRESSURE CLASS 350 PER AWWA C150, WITH INTERIOR LINING OF CEMENT MORTAR AND ASPHALTIC MATERIAL SEAL COAT IN ACCORDANCE WITH ANSI/ AWWA C104/A21.4, AND EXTERIOR COATING PER ANSI/AWWA C151/A21.51 OF 1.0 MIL MIN THICKNESS.

E. FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C110/A21.10, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C104/A21.4, STANDARD THICKNESS, WITH COMPRESSION TYPE JOINTS/ MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D3139 AND ANSI/ AWWA C110/A21.11

F. VALVES 2" AND SMALLER SHALL BE BRONZE, WEDGE DISC, NON-RISING STEM TYPE, 150 PSI MIN WORKING PRESSURE, WITH WROUGHT STEEL OR CAST IRON HAND WHEELS AND WITH SUITABLE ENDS FOR JOINTING TO THE SELECTED PIPE.

G. VALVES 3" TO 12" SHALL BE RESILIENT SEAT GATE VALVES AT 250 PSI RATING, CONFORMING TO ANSI/ AWWA C509 OR C515 OPENING COUNTERCLOCKWISE, WITH O-RING STEM SEAL AND OPENING EQUAL TO OR GREATER THAN THE NOMINAL DIAMETER OF THE VALVE.

H. VALVE BOXES SHALL BE ADJUSTABLE, CAST IRON, WITH MINIMUM INTERIOR DIAMETER OF 5 INCHES WITH COVERS LEGIBLY CAST WITH THE INSCRIPTION "WATER" ON THE TOP, AND WITH A HEAVY COATING OF BITUMINOUS PAINT. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE. ALL VALVES SHALL HAVE BOXES.

I. FIRE HYDRANTS SHALL CONFORM TO AWWA C502, PAINTED IN ACCORDANCE WITH AHJ REQUIREMENTS.

J. BACKFLOW PREVENTION DEVICES: SHALL BE REDUCED PRESSURE ZONE TYPE UNLESS OTHERWISE SPECIFIED.

K. DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) AND DOUBLE CHECK VALVE ASSEMBLY (DCVA) SHALL CONFORM TO ASSE STANDARD 1048 AND 1015 RESPECTIVELY, AND AWWA C510 FEBCO MASTERSERIES 1F866 SERIES OR ENGINEER APPROVED EQUAL. DEVICES TO INCLUDE OS&Y GATE VALVES AT BOTH ENDS AND EPOXY COATED STRAINER. ALL CAST/DUCTILE IRON PARTS TO BE EPOXY COATED. DDCVA TO INCLUDE METER BYPASS WITH DOUBLE CHECK VALVE (ALSO CONFORMING TO THIS SPECIFICATION).

L. REDUCED PRESSURE BACKFLOW PREVENTION DEVICES SHALL CONFORM TO ASSE STANDARD 1015 AND AWWA C511 HERSEY MODEL 6 CM OR ENGINEER APPROVED EQUAL. DEVICES TO INCLUDE OS&Y GATE VALVES AT BOTH ENDS AND EPOXY COATED STRAINER. ALL CAST, DUCTILE IRON PARTS TO BE EPOXY COATED.

M. POTABLE WATER SERVICES 3/4" TO 2" SHALL BE ENDOT INDUSTRIES ENDOPURE, BLUE COLOR SDR-9 250 PSI HDPE TUBING OR ENGINEER APPROVED EQUAL.

N. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN RULE 62-555.335, F.A.C. OR OTHER APPLICABLE STANDARDS, REGULATIONS OR REQUIREMENTS REFERENCED IN PARAGRAPH 62-555.320(3)(B), F.A.C.

O. ALL PIPE, FITTINGS, SOLDER OR FLUX USED IN CONSTRUCTION SHALL CONTAIN NO LEAD.

P. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(2)(B)3, F.A.C. USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE. WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)

4. RECLAIMED WATER:

A. RECLAIMED WATER MAINS, FITTINGS, VALVES, AND APPURTENANCES SHALL MEET ALL APPLICABLE UTILITY PROVIDER MATERIAL SPECIFICATIONS AND BE IDENTIFIED WITHIN THE APPROVED PRODUCT LIST PUBLISHED BY THE PROVIDER. IF UTILITY PROVIDER MATERIAL SPECIFICATIONS ARE NOT DEFINED, MINIMUM MATERIAL SPECIFICATIONS SHALL BE AS FOLLOWS:

B. RECLAIMED WATER MAINS 1.1/2" TO 3" AND FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D3139 AND GASKETS PER ASTM F477.

C. RECLAIMED WATER MAINS 4" TO 12" SHALL BE PVC (UNLESS OTHERWISE CALLED FOR) MEETING THE REQUIREMENTS OF AWWA C900 CLASS 150 DR18 AND ASTM D1784 AND INCLUDE INTEGRAL BELLS

AND ELASTOMERIC JOINTS PER ASTM D3139 AND GASKETS PER ASTM F477.

D. RECLAIMED WATER MAINS SHALL BE DUCTILE IRON WHEN CALLED FOR, WITH MIN PRESSURE CLASS 50 PER AWWA C150, WITH INTERIOR LINING OF CEMENT MORTAR AND ASPHALTIC MATERIAL SEAL COAT IN ACCORDANCE WITH ANSI/ AWWA C104/A21.4, AND EXTERIOR COATING PER ANSI/ AWWA C151/A21.51 OF 1.0 MIL MIN THICKNESS.

E. FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C110/A21.10, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C104/A21.4, STANDARD THICKNESS, WITH COMPRESSION TYPE JOINTS/ MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D3139 AND ANSI/ AWWA C110/A21.11

F. VALVES 2" AND SMALLER SHALL BE BRONZE, WEDGE DISC, NON-RISING STEM TYPE, 150 PSI MIN WORKING PRESSURE, WITH WROUGHT STEEL OR CAST IRON HAND WHEELS AND WITH SUITABLE ENDS FOR JOINTING TO THE SELECTED PIPE.

G. VALVES 3" TO 12" SHALL BE RESILIENT SEAT GATE VALVES AT 250 PSI RATING, CONFORMING TO ANSI/ AWWA C509 OR C515 OPENING COUNTERCLOCKWISE, WITH O-RING STEM SEAL AND OPENING EQUAL TO OR GREATER THAN THE NOMINAL DIAMETER OF THE VALVE.

H. VALVE BOXES SHALL BE ADJUSTABLE, CAST IRON, WITH MINIMUM INTERIOR DIAMETER OF 5 INCHES WITH COVERS LEGIBLY CAST WITH THE INSCRIPTION "RECLAIMED WATER" ON THE TOP, AND WITH A HEAVY COATING OF BITUMINOUS PAINT. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE. ALL VALVES SHALL HAVE BOXES.

M. RECLAIMED WATER SERVICES 3/4" TO 2" SHALL BE ENDOT INDUSTRIES ENDOCORE RW7, PURPLE COLOR SDR-9 250 PSI HDPE TUBING OR ENGINEER APPROVED EQUAL.

N. ALL PIPING VALVES AND OUTLETS SHALL BE COLOR CODED PANTONE 522C PURPLE AND MARKED PER LOCAL AND STATE CODES TO DIFFERENTIATE RECLAIMED WATER FROM POTABLE WATER OR OTHER WATER SOURCES.

5. WASTEWATER COLLECTION & TRANSMISSION:

A. GRAVITY SEWER LINES, FORCE MAINS, FITTINGS, VALVES, AND APPURTENANCES SHALL MEET ALL APPLICABLE UTILITY PROVIDER MATERIAL SPECIFICATIONS AND BE IDENTIFIED WITHIN THE APPROVED PRODUCT LIST PUBLISHED BY THE PROVIDER. IF UTILITY PROVIDER MATERIAL SPECIFICATIONS ARE NOT DEFINED, MINIMUM MATERIAL SPECIFICATIONS SHALL BE AS FOLLOWS:

B. GRAVITY SEWER LINES AND FITTINGS TO BE PVC SDR 35 PER ASTM D3034 WITH ELASTOMERIC JOINTS PER ASTM D3212.

C. MANHOLES TO MEET ASTM C478 WITH A 5" MINIMUM CONCRETE WALL WITH 4,000 PSI COMPRESSIVE STRENGTH.

D. FORCE MAINS 4" TO 12" SHALL BE PVC DR 18 CLASS 100 PER AWWA C900 WITH ELASTOMERIC PUSH-ON JOINTS PER ASTM D3139.

E. FORCE MAIN FITTINGS AND PIPE 1.1/2" TO 3" AND FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D3139 AND GASKETS PER ASTM F477.

F. FORCE MAIN FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C110/A21.10, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/ AWWA C104/A21.4, STANDARD THICKNESS, WITH COMPRESSION TYPE JOINTS/ MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D3139 AND ANSI/ AWWA C110/A21.11

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GENERAL NOTES - JULY 31, 2025



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PREPARED FOR:

4203
HOGSHEAD LLC

GENERAL NOTES
 4203 HOGSHEAD ROAD

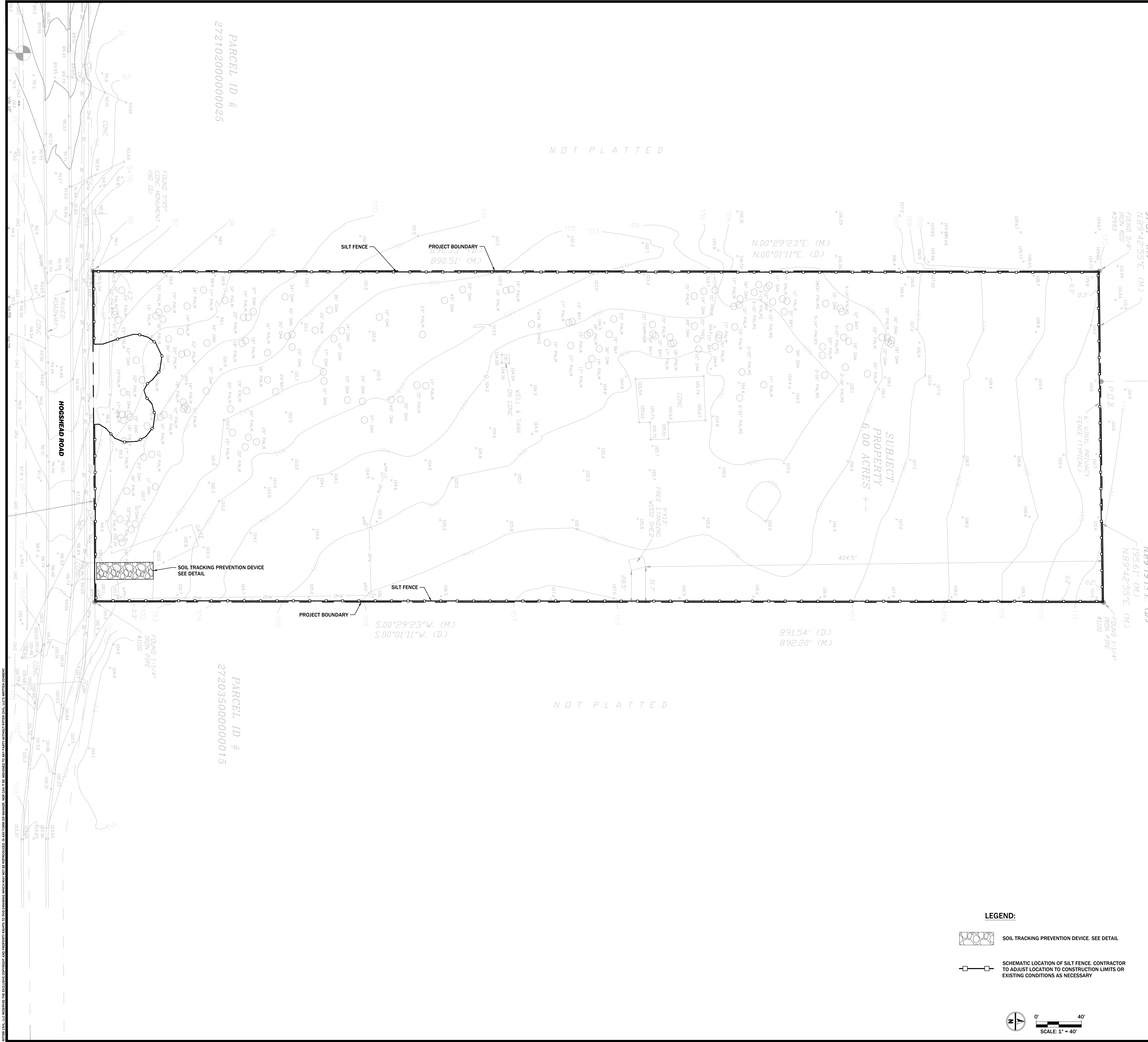
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SEDIMENTATION AND EROSION CONTROL NOTES:

- THIS SEDIMENTATION AND EROSION CONTROL PLAN AND ASSOCIATED DETAILS ARE PROVIDED AS A GUIDE TO THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WHICH DEMONSTRATES THE MEANS AND METHODS THAT WILL BE UTILIZED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREAS AND WETLANDS DURING CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. THE PLAN SHALL INCLUDE AT A MINIMUM, THE LOCATION OF SOIL TRACKING PREVENTION DEVICES, SILT SCREENS AND FENCING, TURBIDITY BARRIERS, TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND ALL OTHER NECESSARY MEANS AND METHODS TO PREVENT POLLUTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL LAWS, AND ALL REGULATIONS PERTAINING TO POLLUTION OF THE ENVIRONMENT.
- FOR CONSTRUCTION ACTIVITIES THAT DISTURB 1 ACRE OR MORE OF LAND, OR DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF A COMMON PLAN OF DEVELOPMENT OR SALE, THE CONTRACTOR SHALL SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A "NOTICE OF INTENT TO USE THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" (NOI) A MINIMUM OF 2 CALENDAR DAYS BEFORE COMMENCEMENT OF CONSTRUCTION BY CLEARING, GRADING, EXCAVATING, DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES DISTURBING SOIL.
- PRIOR TO SUBMITTING THE NOI, THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA/FDEP NPDES AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION'S MINIMUM EROSION CONTROL REQUIREMENTS.
- ALL CONTRACTORS AND SUBCONTRACTORS INCLUDED ON THE STORMWATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE SWPPP AND THE NPDES PERMIT AND ABIDE BY THE REQUIREMENTS THEREIN.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE SWPPP TO LIMIT SEDIMENTATION OUTSIDE OF THE PROJECT LIMITS. SITE CONDITIONS MAY NECESSITATE THE IMPLEMENTATION OF ADDITIONAL BMP'S WHICH SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL BMP'S SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, LOCAL REQUIREMENTS, MANUAL OF PRACTICE, AND/OR AS DIRECTED BY THE AGENCY HAVING JURISDICTION.
- ALL BMP'S SHALL BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITY AND MONITORED FOR ADEQUATE FUNCTION AND ANY NEEDED MAINTENANCE UNTIL THE PROJECT OR PHASE OF THE PROJECT IS FULLY COMPLETED AND ACCEPTED.
- THE SITE SHALL BE INSPECTED BY A QUALIFIED INSPECTOR PROVIDED BY THE CONTRACTOR / OWNER AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY-FOUR HOURS OF THE END OF A RAINFALL EVENT 6 INCHES OR GREATER.
- INSPECTIONS OF THE BMP'S SHALL COVER THE FOLLOWING:
 - ALL STORMWATER DISCHARGES FROM THE SITE TO ENSURE BMP'S ARE NOT CAUSING OR CONTRIBUTING TO VIOLATIONS OF WATER QUALITY STANDARDS OR RESULTING IN OFFSITE SEDIMENTATION.
 - THE BMP'S IDENTIFIED IN THE SWPPP ARE INSTALLED, MAINTAINED, AND OPERATING CORRECTLY AND EFFECTIVELY.
 - BMP'S ARE BEING USED AND MAINTAINED PROPERLY FOR ALL AREAS USED FOR STORAGE OF MATERIALS EXPOSED TO RAINFALL AND RUNOFF.
 - ANY EVIDENCE OF OFFSITE SEDIMENT TRACKING AT ALL LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE. NOTE ANY ACTIONS NEEDED TO REMOVE SEDIMENTS FROM THE ROADWAY AND TO PREVENT IT IN THE FUTURE.
 - ANY VISIBLE SIGNS OF EROSION AND SEDIMENTATION IN ALL DISTURBED AREAS AND DISCHARGE POINTS.
- ANY CORRECTIVE ACTION TO THE BMP'S SHALL BE FULLY DOCUMENTED, A COPY OF THE APPROVED NOI, ACKNOWLEDGEMENT LETTER, SWPPP, INSPECTION REPORTS, RECORDS AND ALL NOTIFICATIONS FROM FDEP SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE NPDES INSPECTOR, OWNER OR OTHER AUTHORIZED PARTIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIRT AND DUST ABATEMENT, AND SHALL WATER THE SITE OR USE OTHER APPROPRIATE MEASURES FOR CONTROL. NO USE OF PETROLEUM BASED OR OTHER TOXIC SUBSTANCES SHALL BE PERMITTED FOR DUST ABATEMENT.
- THE CONTRACTOR SHALL PROVIDE SOIL TRACKING PREVENTION DEVICES AT DESIGNATED CONSTRUCTION ENTRANCES IN ACCORDANCE WITH THE FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
- IF PROVIDED CONSTRUCTION ENTRANCES ARE NOT SUFFICIENT TO REMOVE DIRT AND MUD FROM THE TIRES OF VEHICLES AND EQUIPMENT LEAVING THE CONSTRUCTION SITE, THE TIRES MUST BE WASHED PRIOR TO THE VEHICLES LEAVING THE SITE AND ENTERING A PUBLIC ROAD.
- ALL WATER USED FOR CLEANING CONCRETE TRUCKS, VEHICLES, EQUIPMENT OR OTHER CLEANING ACTIVITY SHALL BE PROPERLY DETAINED AND TREATED OR DISPOSED OF IN A LEGAL MANNER.
- ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ON TO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
- SILT FENCING SHOWN ON THE PLANS IS SCHEMATIC AND MAY NEED TO BE ADJUSTED DUE TO SITE CONDITIONS. CONTRACTOR SHALL PLACE SILT FENCING ALONG THE LIMITS OF CONSTRUCTION BASED ON THE CONSTRUCTION PLANS IN THEIR ENTIRETY.
- EXISTING CURB AND DITCH INLETS SHALL BE PROTECTED FROM SEDIMENTATION DUE TO SURFACE RUNOFF UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETE. FILTER FABRIC SHALL BE PLACED UNDER THE GRATE OF DITCH INLETS, AND FILTER SOCKS SHALL BE PLACED IN FRONT OF THE THROAT OF CURB INLETS.
- TURBIDITY BARRIERS SHALL BE INSTALLED IN ALL EXISTING WATER BODIES WHERE CONSTRUCTION ACTIVITIES COULD CAUSE THE TRANSFER OF SEDIMENTS AND SUSPENDED SOLIDS. TURBIDITY BARRIERS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITY IS COMPLETE AND THE GROUND IS STABILIZED WITH A DENSE STAND OF VEGETATION.
- THE CONTRACTOR SHALL REMOVE SEDIMENT IN STORMWATER PONDS AND ANY SEDIMENT THAT MAY HAVE ACCUMULATED IN THE STORMWATER DRAINAGE SYSTEM.
- ALL RIGHT OF WAY, POND SLOPES, OR SLOPES 5:1 OR GREATER SHALL BE SODDED. ALL SODDED AREAS SHALL BE WATERED, FERTILIZED OR OTHERWISE MAINTAINED BY THE CONTRACTOR AS NECESSARY UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- IF CONSTRUCTION ACTIVITY HAS CEASED FOR ANY REASON, ALL DISTURBED AREAS SHALL BE SEEDDED & MULCHED OR OTHERWISE STABILIZED NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY.

PREPARED BY:

PREPARED FOR:

4203

HOGSHEAD LLC

SEDIMENTATION & EROSION

CONTROL PLAN

4203 HOGSHEAD ROAD

ISSUE DATE: 10/07/2025

DRAFTED:	GRR
DESIGNED:	GRR
REVIEWED:	GRR
PROJECT NUMBER:	23027

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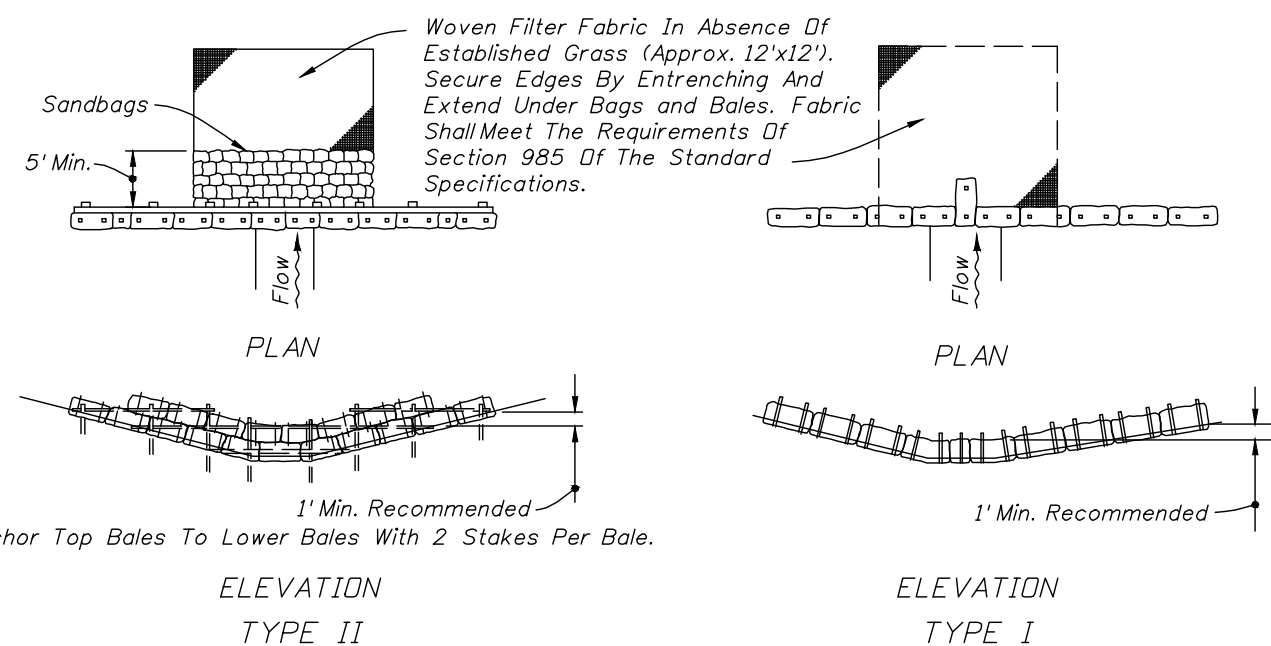
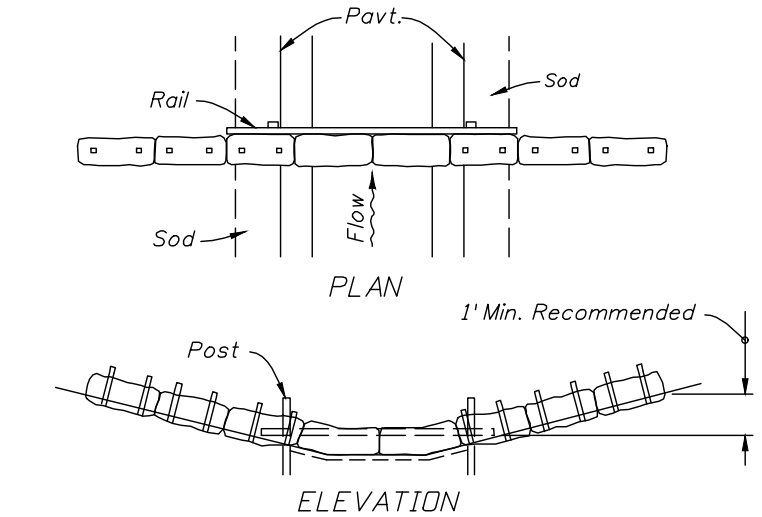
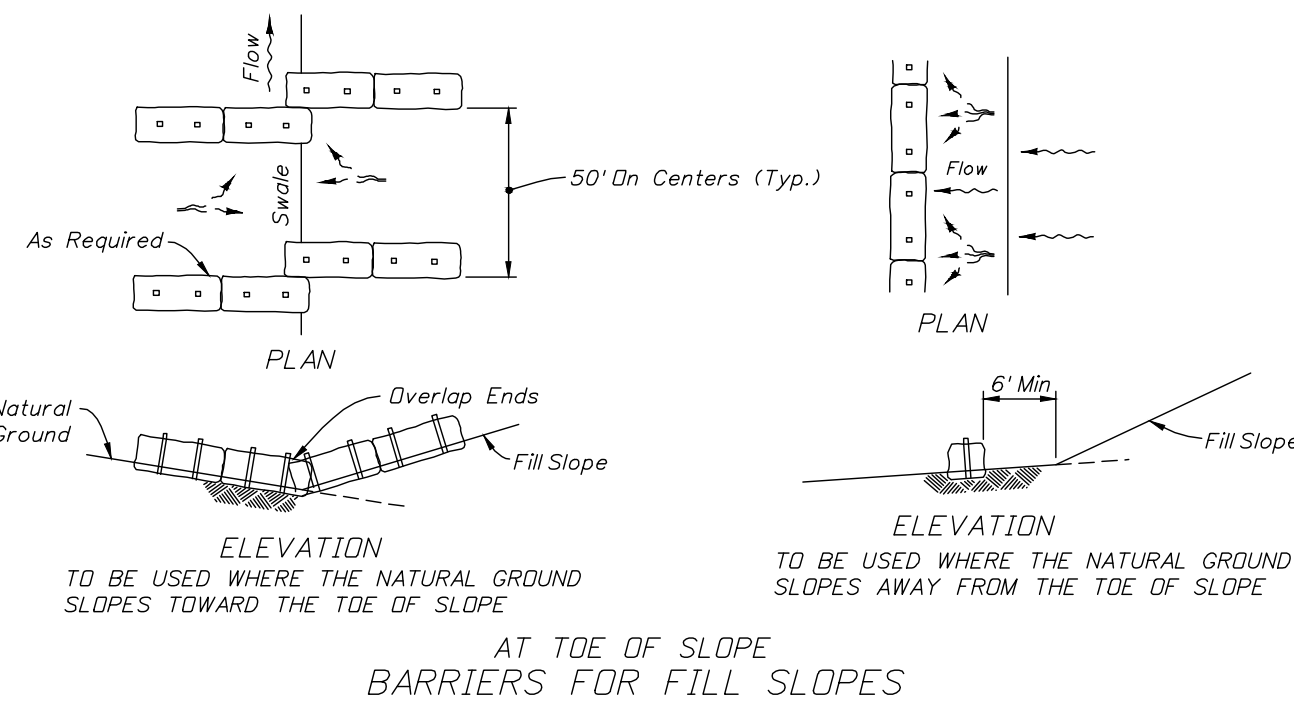
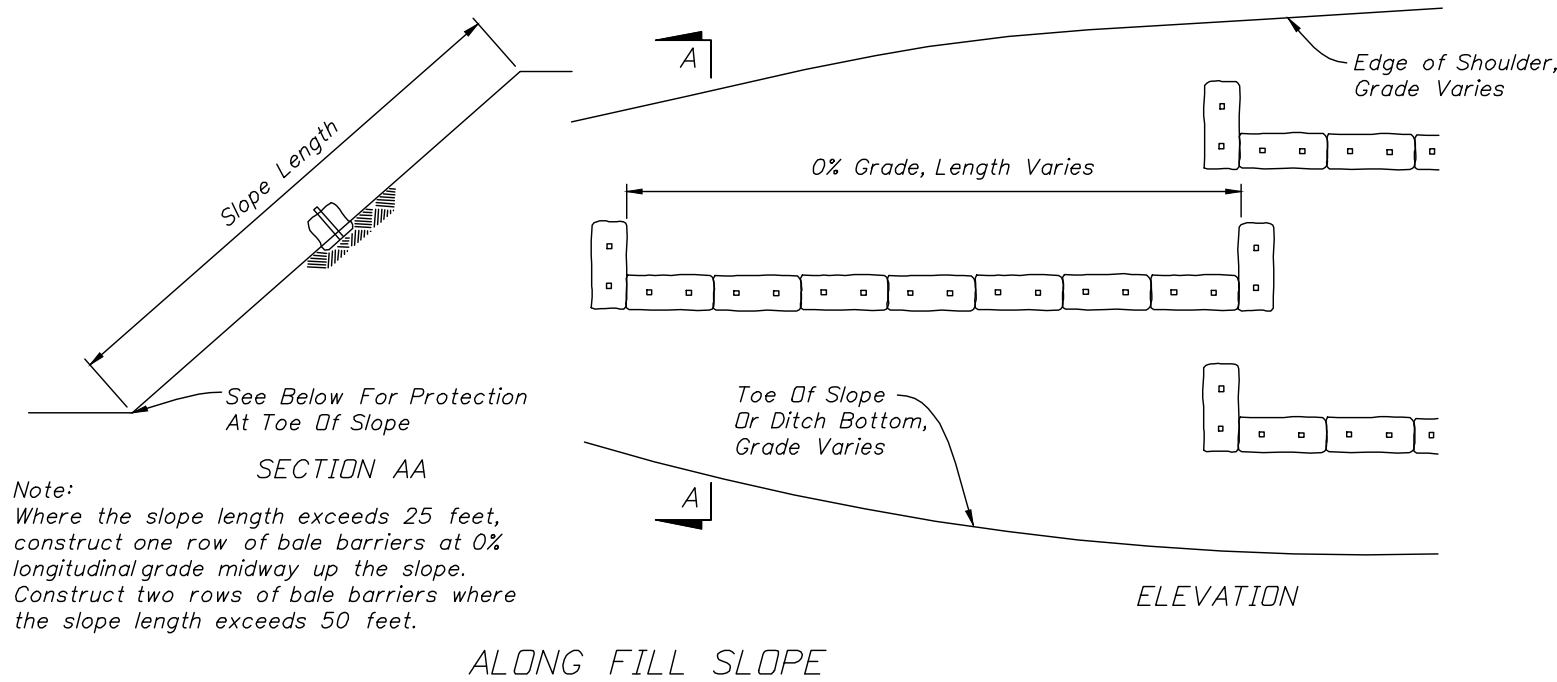
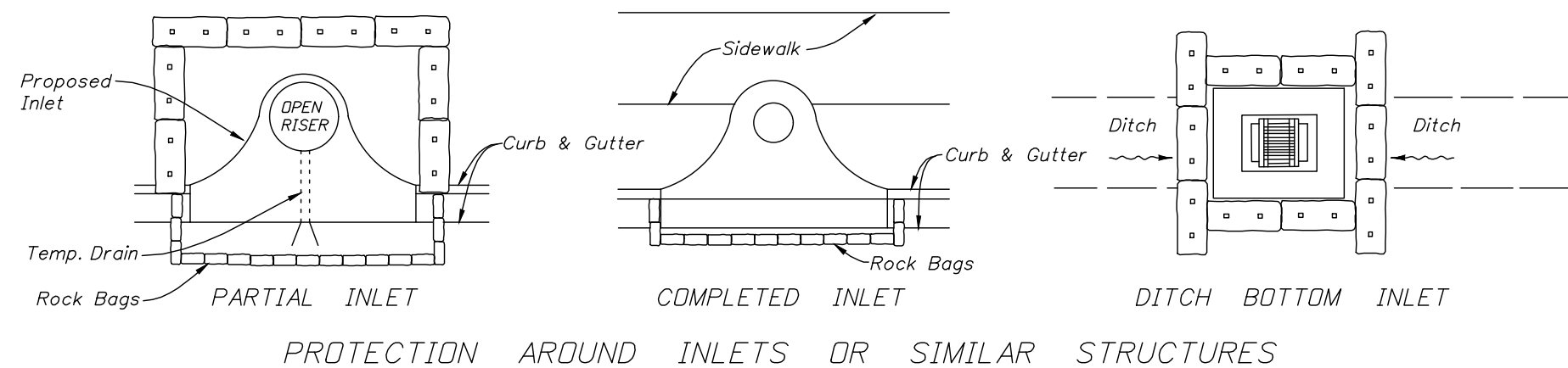
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Carm R. Ritter on the date adjacent to the seal.
Signature must be verified on any electronic
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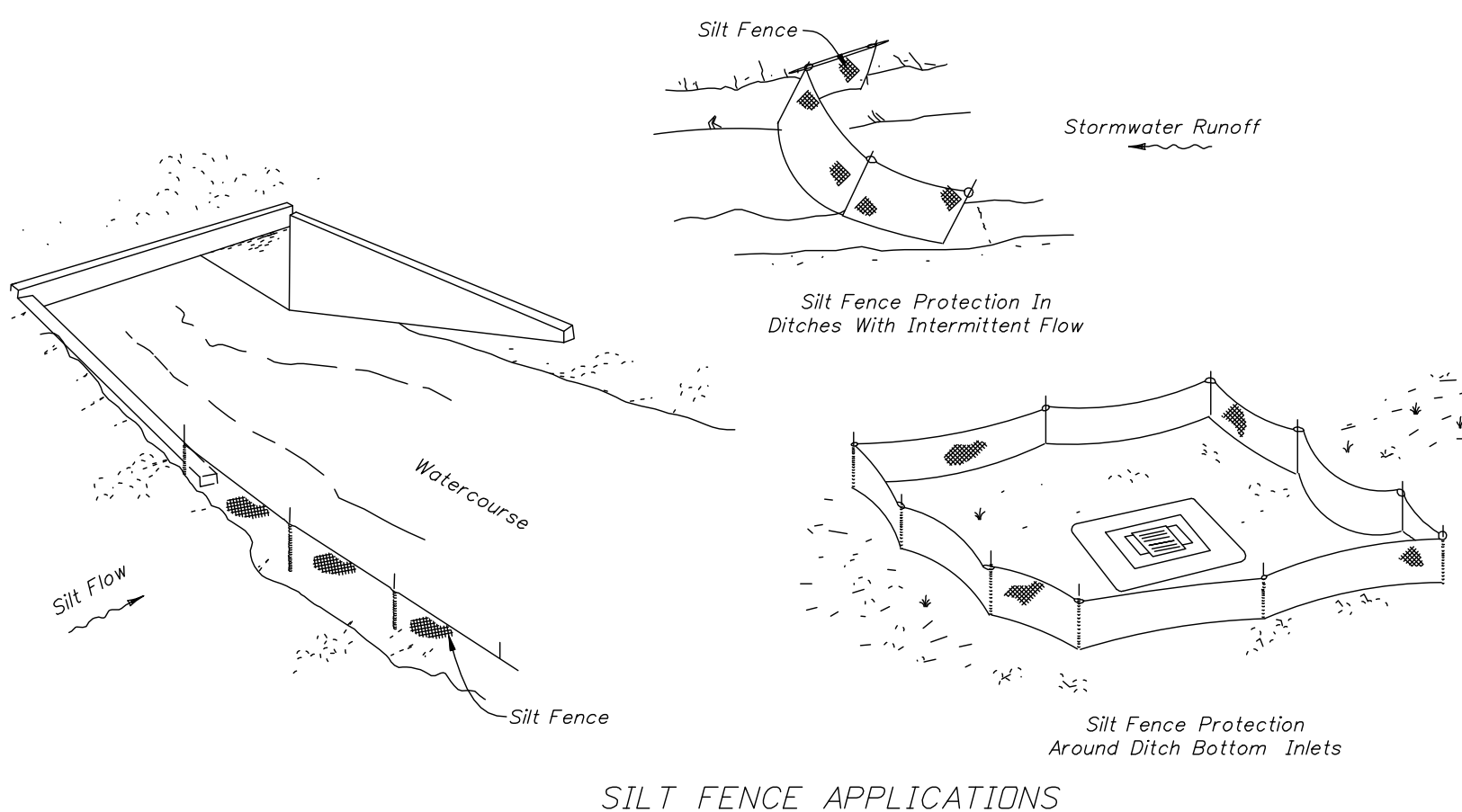
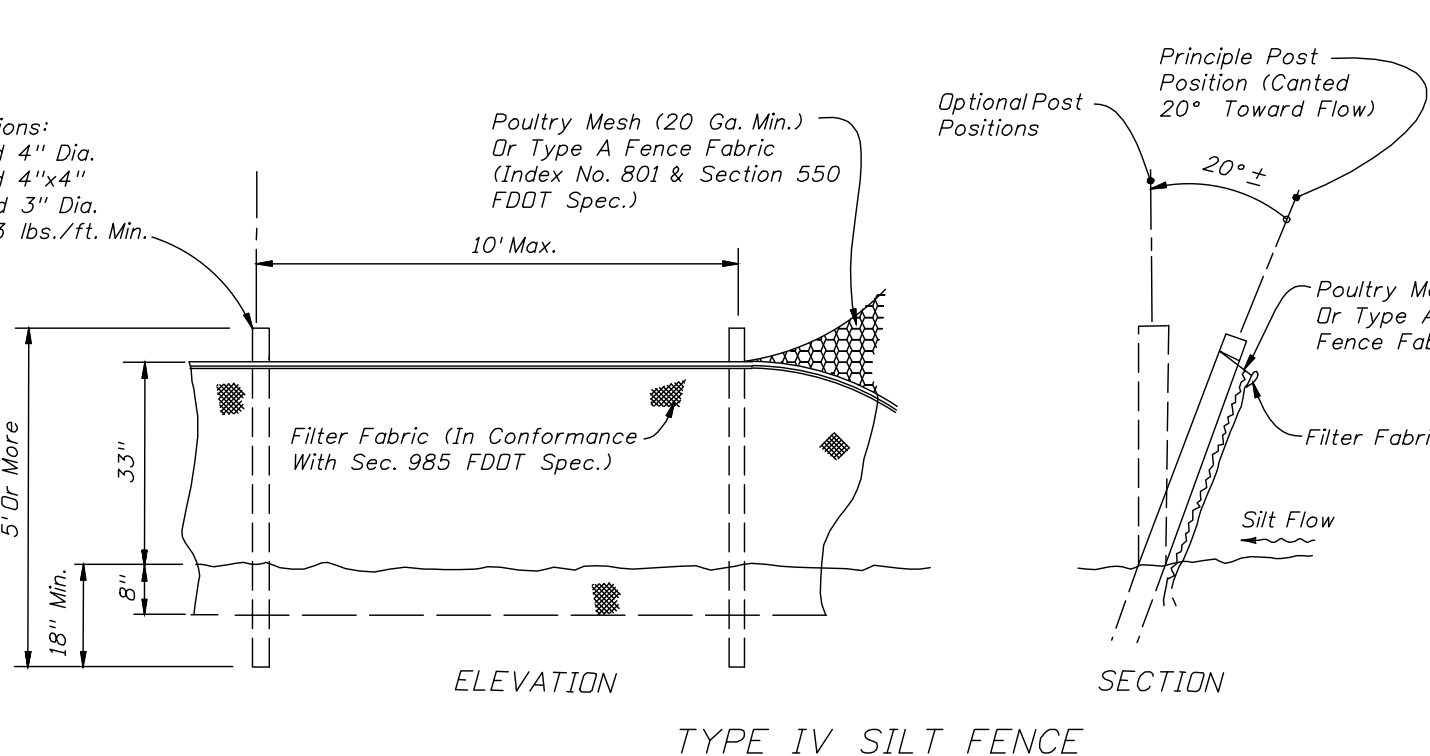
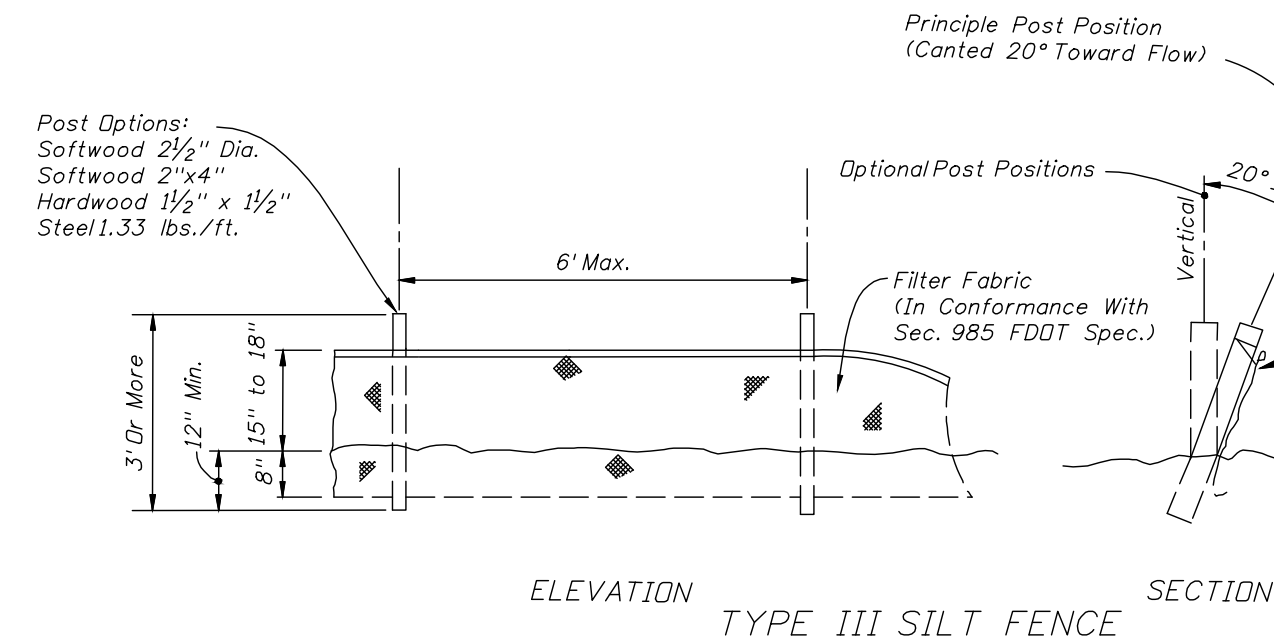


- NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS
- Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
 - Bales shall be anchored with 2-1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
 - Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
 - Adjacent bales shall be butted firmly together.
 - Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
 - Bales to be paid for under the contract unit price for Synthetic Bales, LF. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sandbags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.



2010 FDOT Design Standards
TEMPORARY EROSION AND SEDIMENT CONTROL

Last Revision: 07/01/09
Sheet No. 2 of 3
Index No. 102



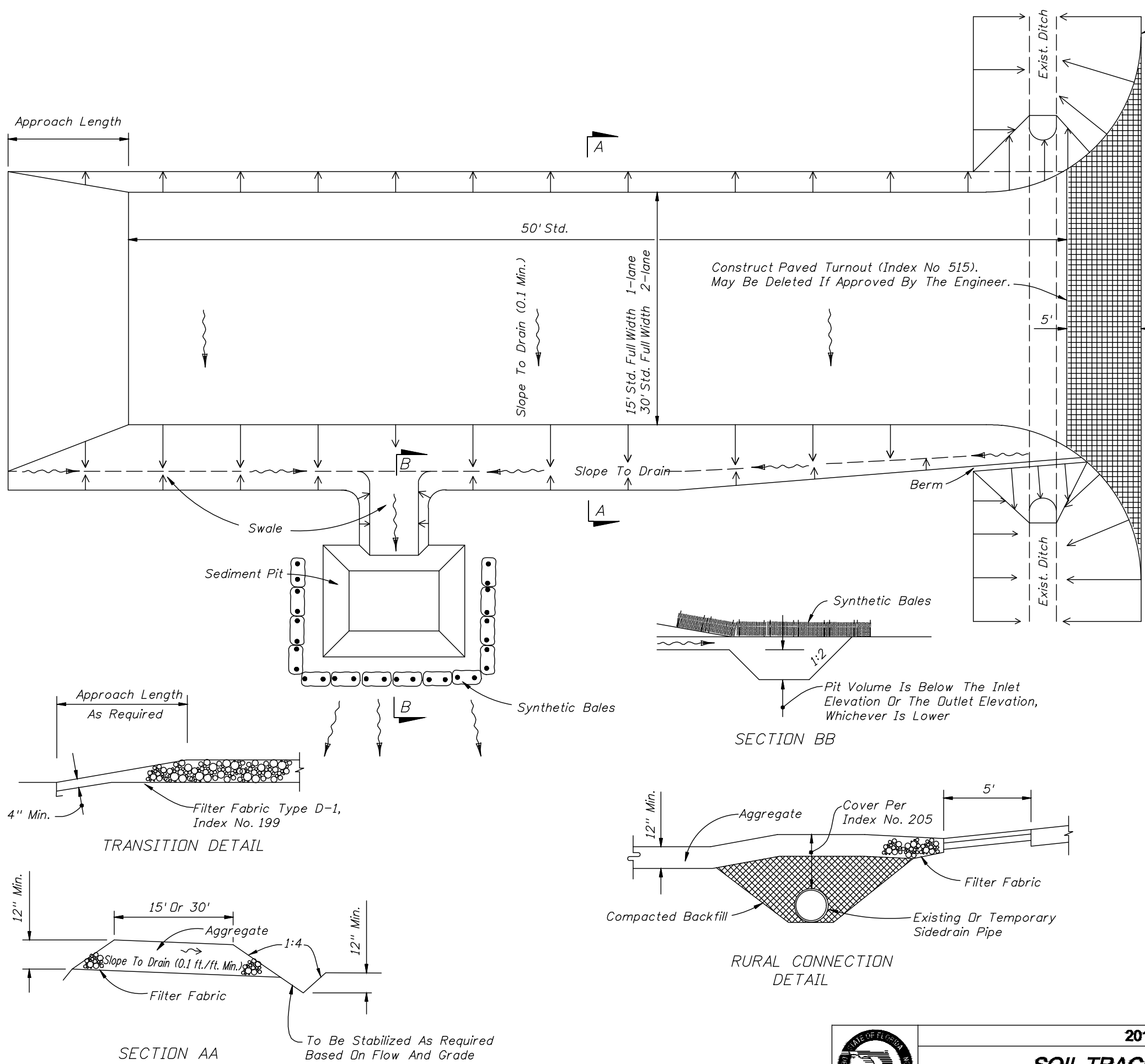
NOTES FOR SILT FENCES

- Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
- Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
- Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
- Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
- Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).



2010 FDOT Design Standards
TEMPORARY EROSION AND SEDIMENT CONTROL

Last Revision: 07/01/09
Sheet No. 3 of 3
Index No. 102



2010 FDOT Design Standards
SOIL TRACKING PREVENTION DEVICE
TYPE A

Last Revision: 07/01/07
Sheet No. 1 of 1
Index No. 106

- GENERAL NOTES
- A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
 - The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
 - All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
 - Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
 - The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
15' x 50' = 100 ft.³
30' x 50' = 200 ft.³
As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
 - The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
 - Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
 - The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily, when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
 - A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPDs including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
 - The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

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PREPARED FOR:

PREPARED BY:

4203
HOGSHEAD LLC
SEDIMENTATION & EROSION
CONTROL PLAN
4203 HOGSHEAD ROAD

RITTER CIVIL
ENGINEERING - PLANNING
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DEMOLITION PLAN
4203 HOGSHEAD ROAD

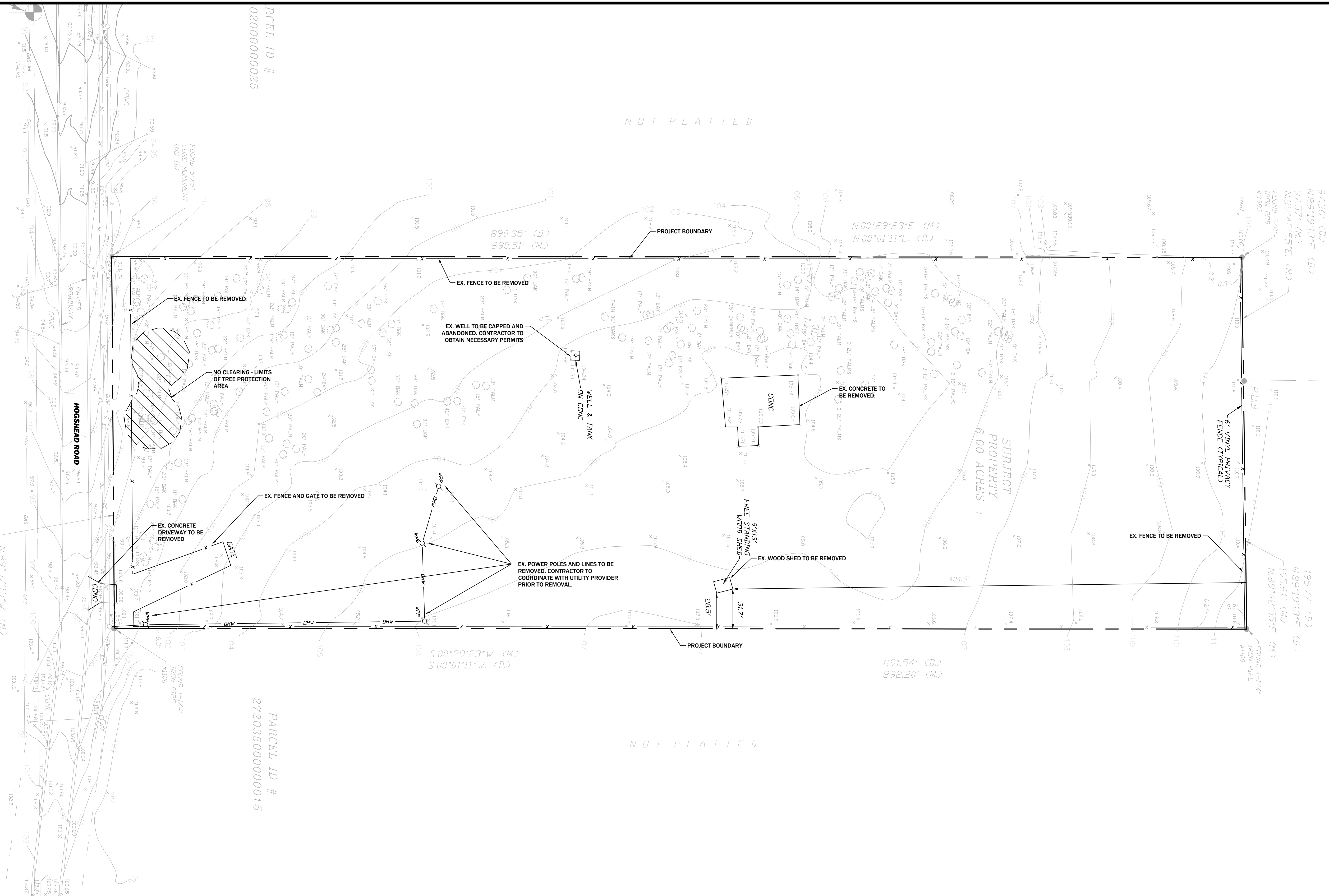
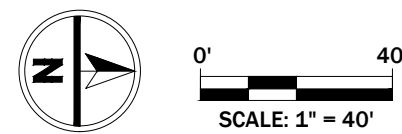
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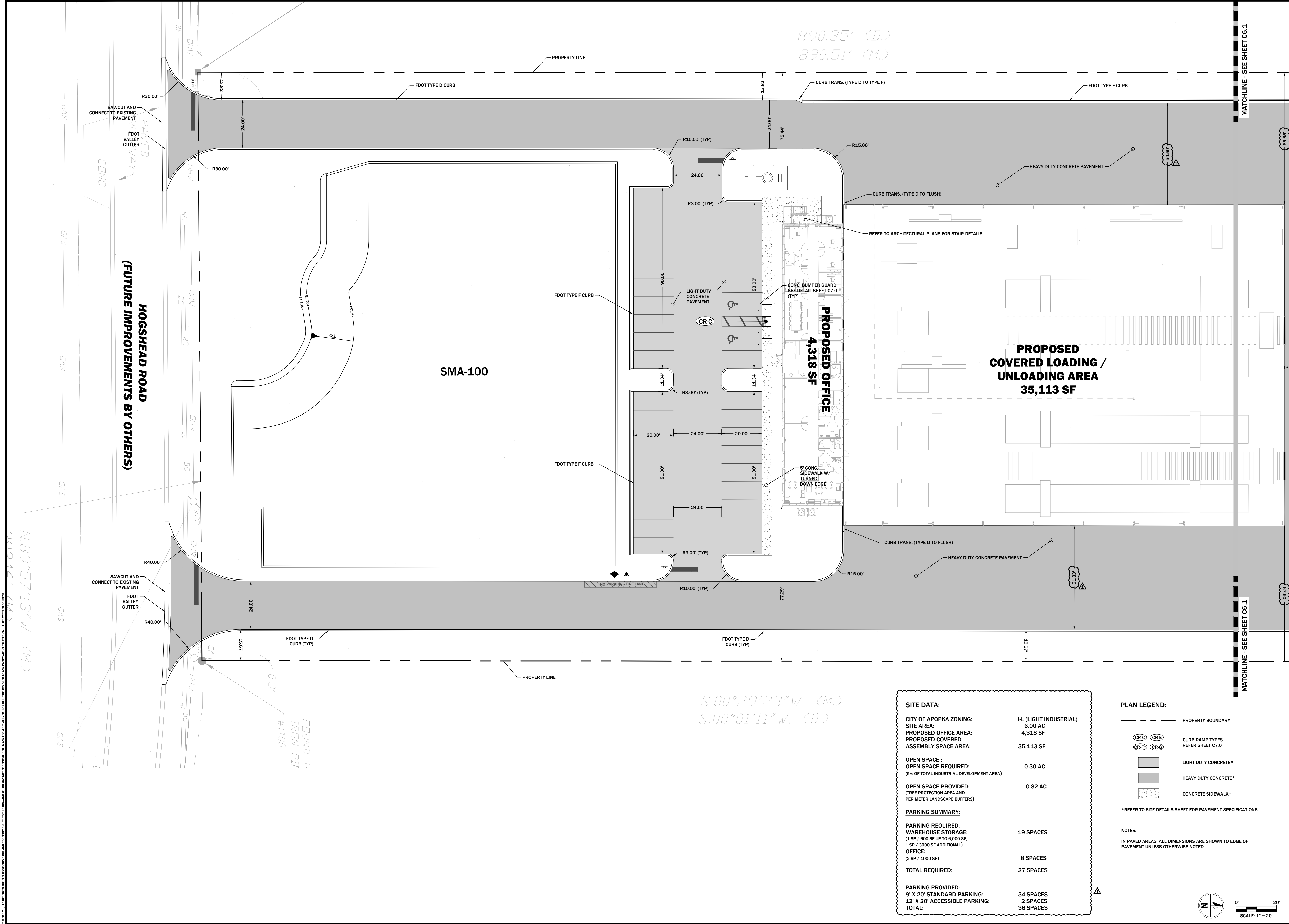


PLAN LEGEND:

_____ PROPERTY LINE / PROJECT BOUNDARY

NOTE: ALL TREES WITHIN PROJECT LIMITS TO BE REMOVED

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SITE PLAN

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50.00

MATCHLINE - SEE SHEET C6.0

MATCHLINE - SEE SHEET C6.0



PROPERTY LINE

CURB TRANS. (TYPE F TO FLUSH)

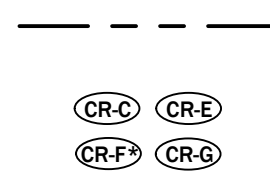
CURB TRANS
(TYPE D TO FLUSH)

**PAVED OUTDOOR
STORAGE YARD
1.73 AC**

— HEAVY DUTY CONCRETE PAVEMENT

36 (D)
 9°19'13"E, (D)
 57' (M.)
 89°42'55"E, (M.)

PLAN LEGEND:



PROPERTY BOUNDARY

 LIGHT DUTY CONCRETE*

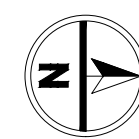
HEAVY DUTY CONCRETE:


CONCRETE SIDEWALK*

*REFER TO SITE DETAILS SHEET FOR PAVEMENT SPECIFICATIONS

NOTES:

IN PAVED AREAS, ALL DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.



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HOGSHEAD LLC**

SITE PLAN
4203 HOGSHEAD ROAD

10/07/2025

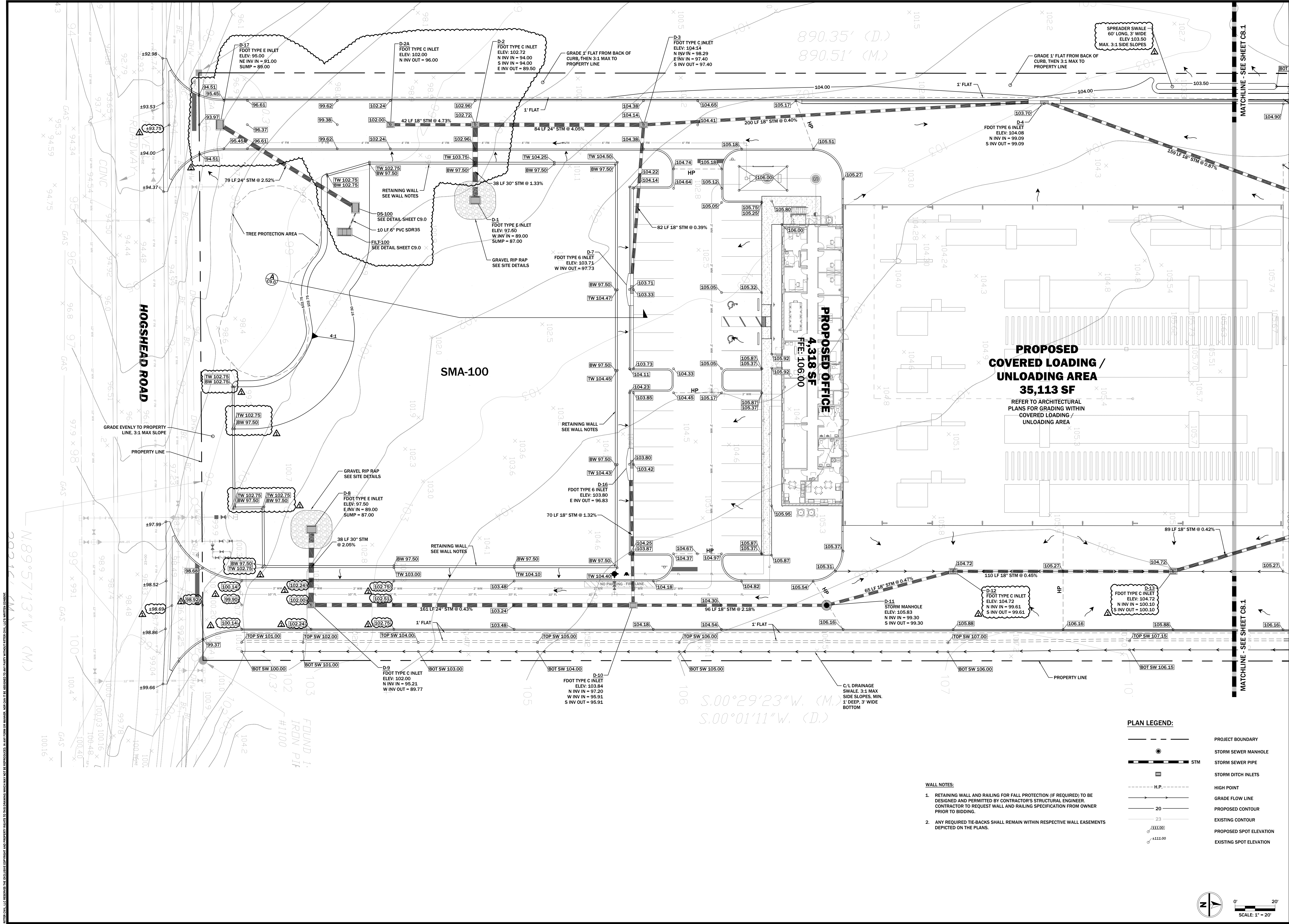
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GRADING & DRAINAGE PLAN

4203 HOGSHEAD ROAD

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REVISION:		
REVISION:		

DESIGNED: GRR

REVIEWED: GRR

PROJECT NUMBER: 23027

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PLAN LEGEND:

--- PROJECT BOUNDARY

● STORM SEWER MANHOLE

--- STORM SEWER PIPE

--- STORM DITCH INLETS

--- H.P.

--- GRADE FLOW LINE

--- PROPOSED CONTOUR

--- EXISTING CONTOUR

--- PROPOSED SPOT ELEVATION

--- EXISTING SPOT ELEVATION

WALL NOTES:

1. RETAINING WALL AND RAILING FOR FALL PROTECTION (IF REQUIRED) TO BE DESIGNED AND PERMITTED BY CONTRACTOR'S STRUCTURAL ENGINEER. CONTRACTOR TO REQUEST WALL AND RAILING SPECIFICATION FROM OWNER PRIOR TO BIDDING.

2. ANY REQUIRED TIE-BACKS SHALL REMAIN WITHIN RESPECTIVE WALL EASEMENTS DEPICTED ON THE PLANS.

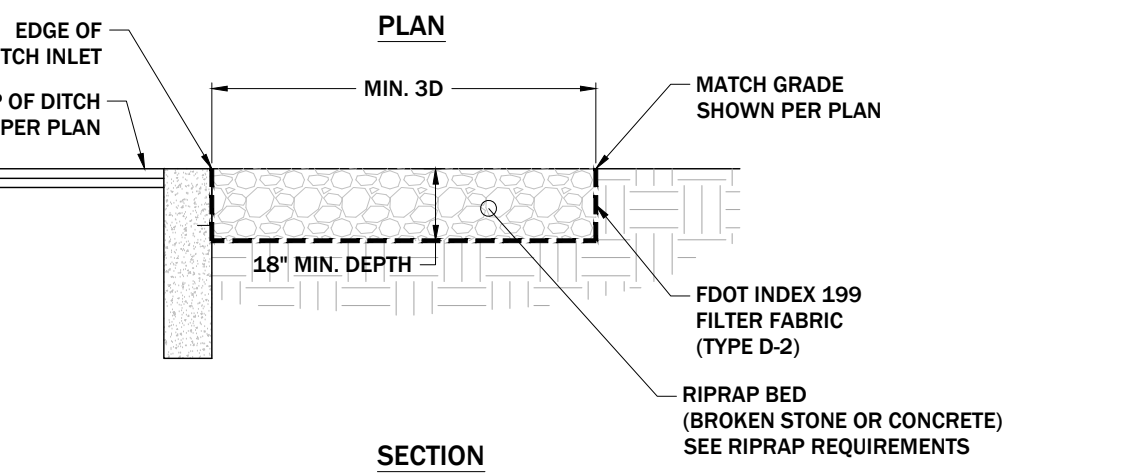
SCALE: 1" = 20'

0'

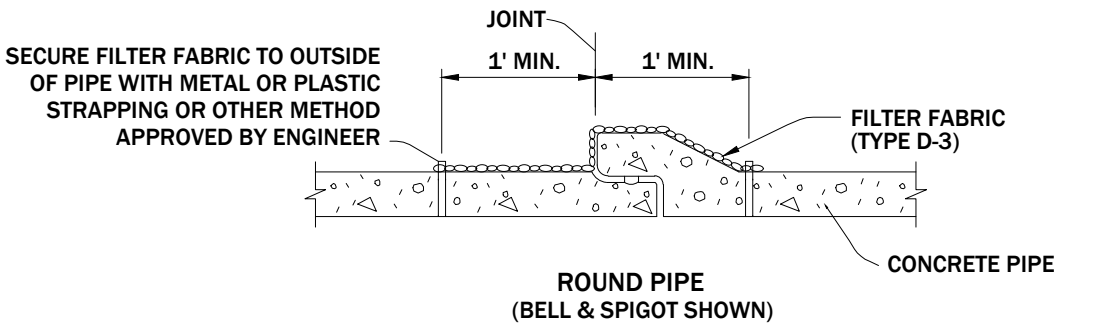
20'

Page 31 of 83

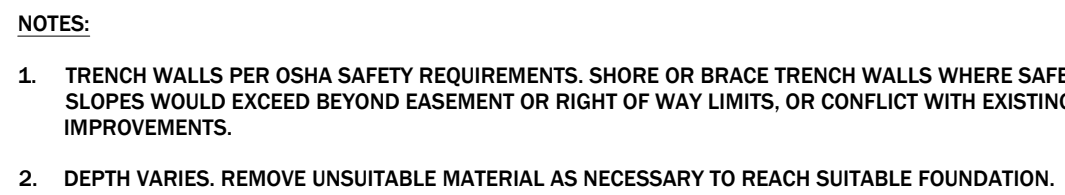
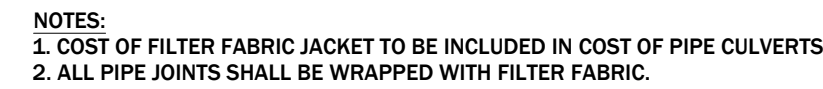




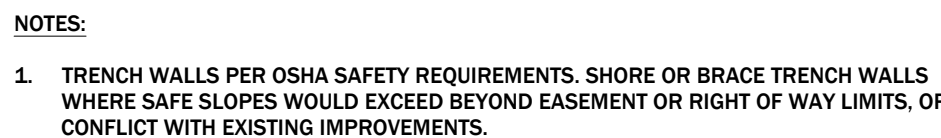
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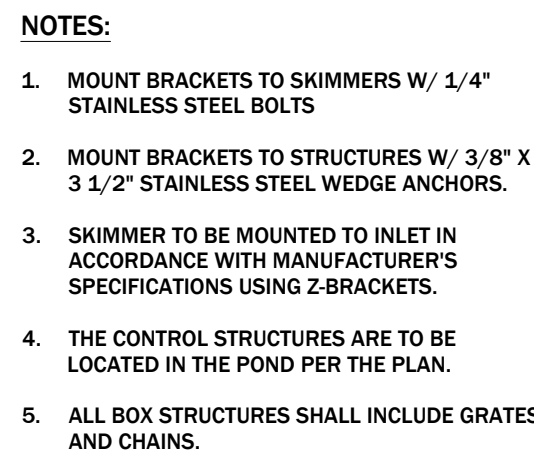
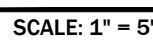
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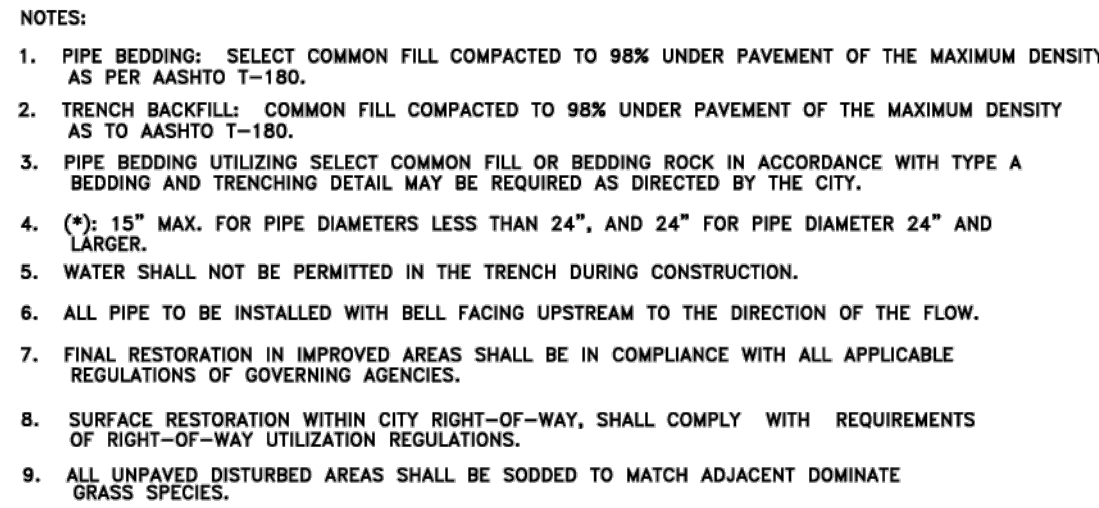


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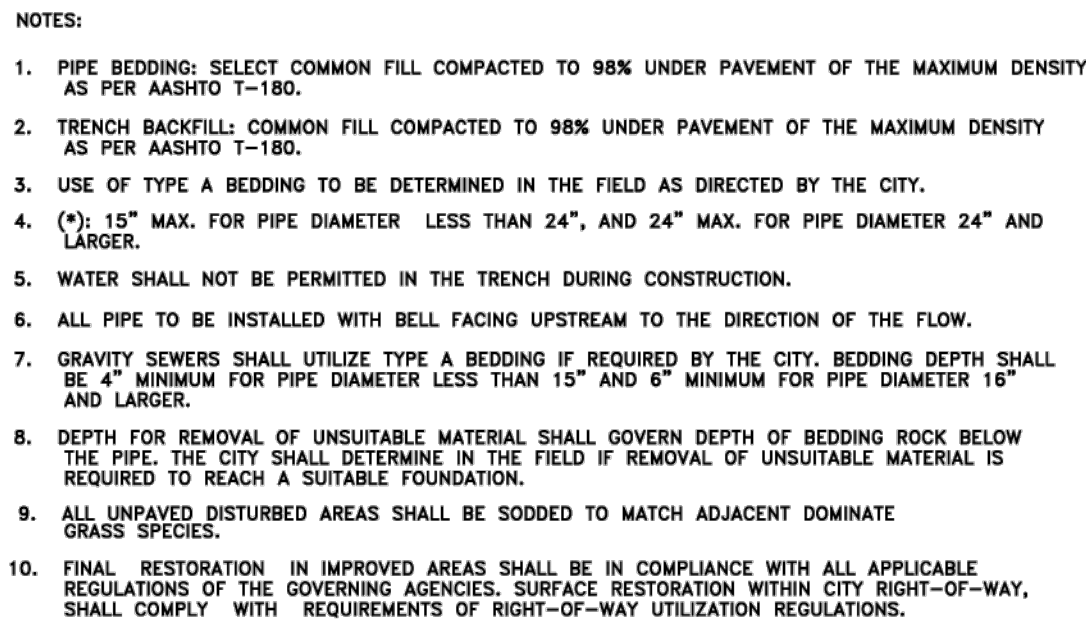




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FIG. 10C



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FIG. 101

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.) CONCERNING SEWERAGE AND SOLID WASTE. THE DISTANCE BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNSTRAWNED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE. OTHER TYPES OF SEPARATION CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.

C/C - DENOTES CENTER OF PIPE TO CENTER OF PIPE.
O/O - DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

4. ACCEPTABLE VARIANCES:
 - a. WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE, PVC-C-900 SDR-35 OR CONCRETE ENCASEMENT MUST BE USED FOR THE PIPE WITH THE LOWER LINE FOR AT LEAST ONE OF THE PIPES. PVC-C-900 SDR 14 OR CONCRETE ENCASEMENT MUST BE USED UNTIL MINIMUM CLEARANCE IS REACHED.
 - b. WHERE 18 INCH VERTICAL SEPARATION IS NOT ATTAINABLE AT CROSSINGS, USE ONE FULL LENGTH OF PVC-C-900 SDR-14 FOR SANITARY SEWERS OR ENCASED PIPE CONTROLLED AT THE POINT OF CROSSING SPECIAL SUPPORT MAY BE REQUIRED.
5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
6. CONCRETE ENCASEMENT SHALL NOT BE USED UNLESS APPROVED BY PUBLIC SERVICES DIRECTOR OR HIS DESIGNEE.

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FIG. 104



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FIG. 109

**** ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS**
**** LENGTH ALONG RUN ASSUMED TO BE 18'**

NOTES:

1. FITTINGS MUST BE DUCTILE IRON RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINE WITH PROTECTO 401.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, FOR PVC WITH THE FOLLOWING ASSUMPTIONS:

TYPE OF PIPE: _____	PVC	
WORKING PRESSURE: <u>150</u> P.S.I.**		** FM = 100 P.S.I. /
SOIL DESIGNATION: <u>SM (AND SILT)</u>		WM OR RWM = 150 P.S.I.
LAYING CONDITIONS: <u>3</u>		
6. FOR PIPE ENCASED IN POLYETHYLENE UNDER THE GIVEN VALVE BY A FACTOR OF 1.5.
7. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

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FIG. 105

**** ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS**
**** LENGTH ALONG RUN ASSUMED TO BE 18'**

NOTES:

1. FITTINGS SHALL BE RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINED WITH PROTECTO 401.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:

TYPE OF PIPE: _____	DI _____	
WORKING PRESSURE: <u>150</u> P.S.I.**		** FM = 100 P.S.I. /
SOIL DESIGNATIONS: <u>SM(SAND SILT)</u>		WM OR RWM = 150 P.S.I.
LAYING CONDITIONS: <u>3</u>		
6. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

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FIG. 106



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FIG. 107



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FIG. 116

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UTILITY DETAILS

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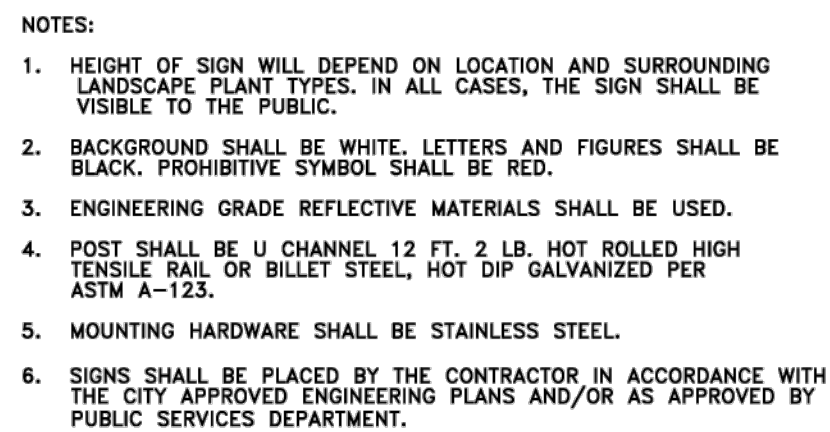
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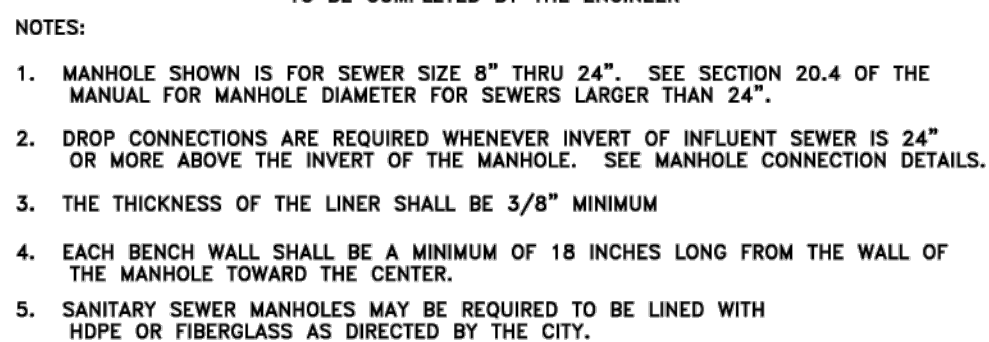
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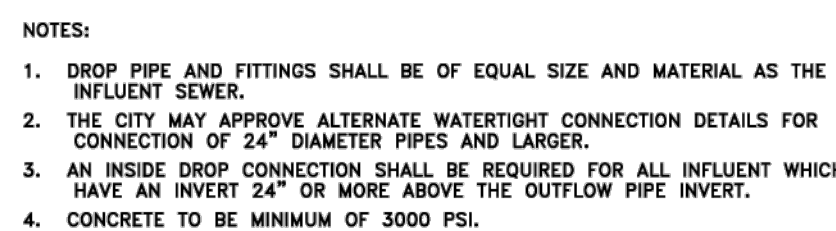
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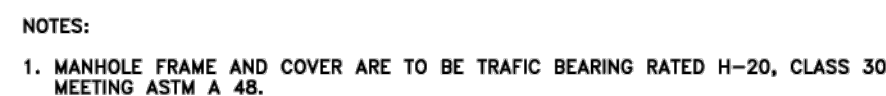
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 115
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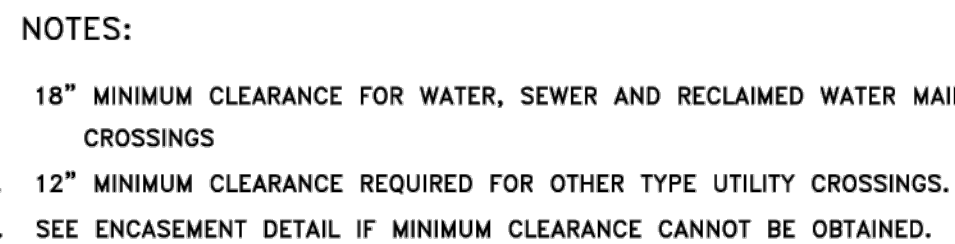
CITY OF APOPKA JANUARY 2014 FIG. 200



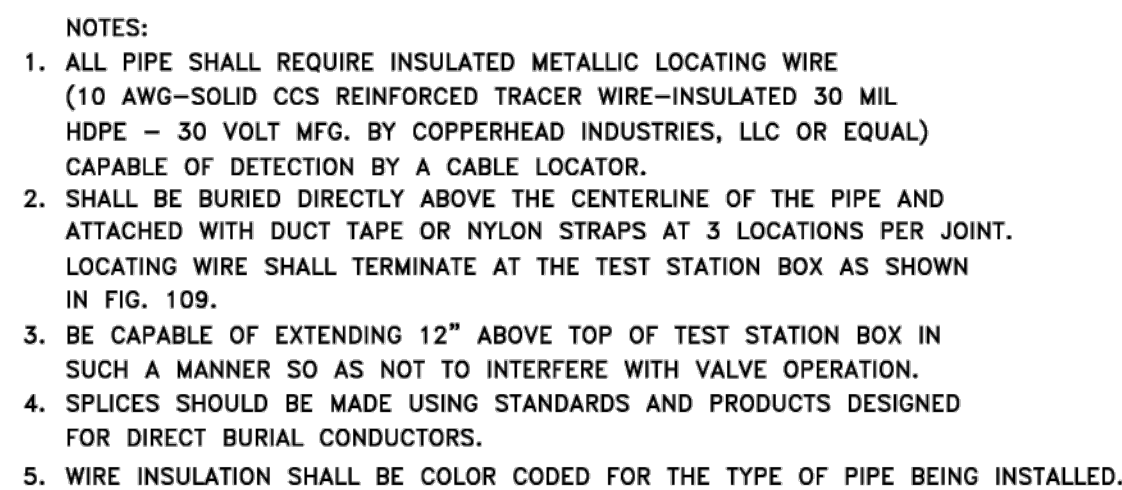
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 201
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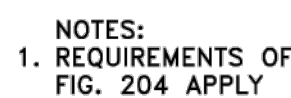
CITY OF APOPKA	JANUARY 2014	FIG. 202
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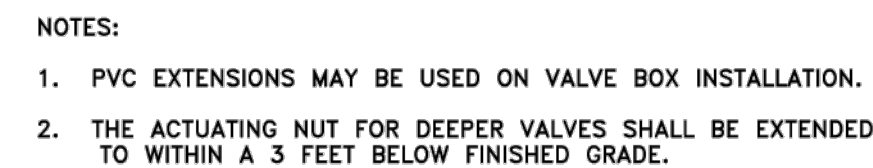
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 117
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CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 118
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CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 205
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CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400
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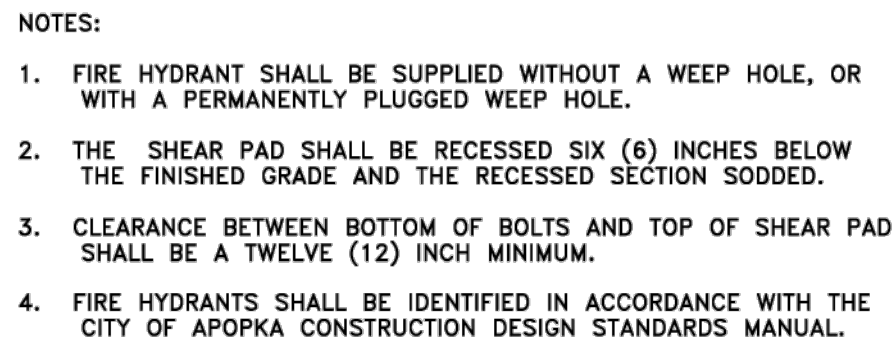
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HOGSHEAD LLC

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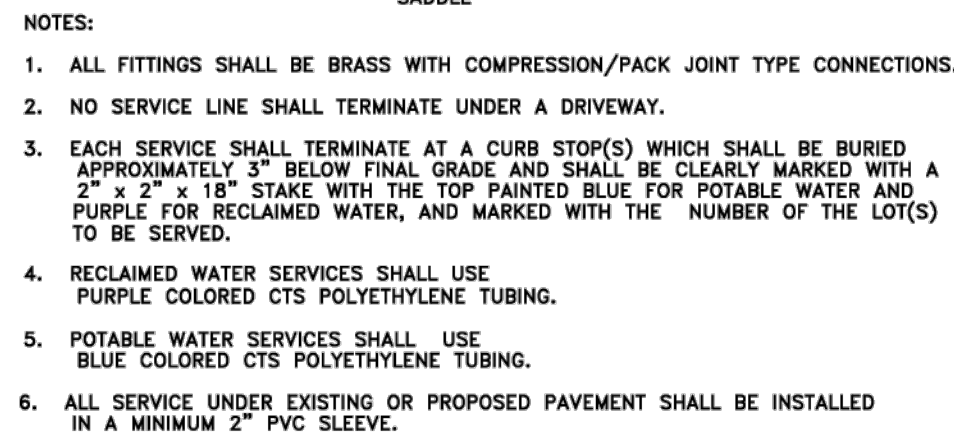


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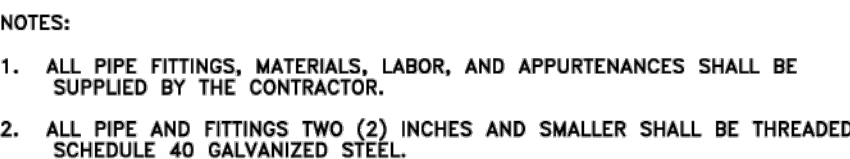
FIRE HYDRANT ASSEMBLY DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 402
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WATER SERVICE CONNECTION DETAIL

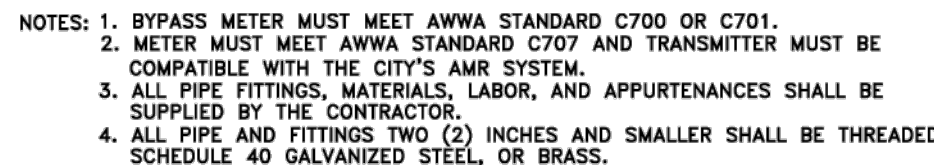
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 405
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DOUBLE CHECK OR REDUCED PRESSURE ZONE DETECTOR ASSEMBLY

2 INCH AND BELOW ASSEMBLY

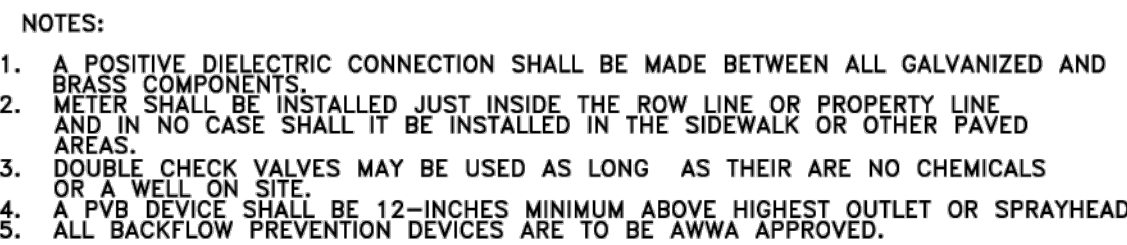
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 A
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ABOVE GROUND DEVICE WITH
DETECTOR BY-PASS

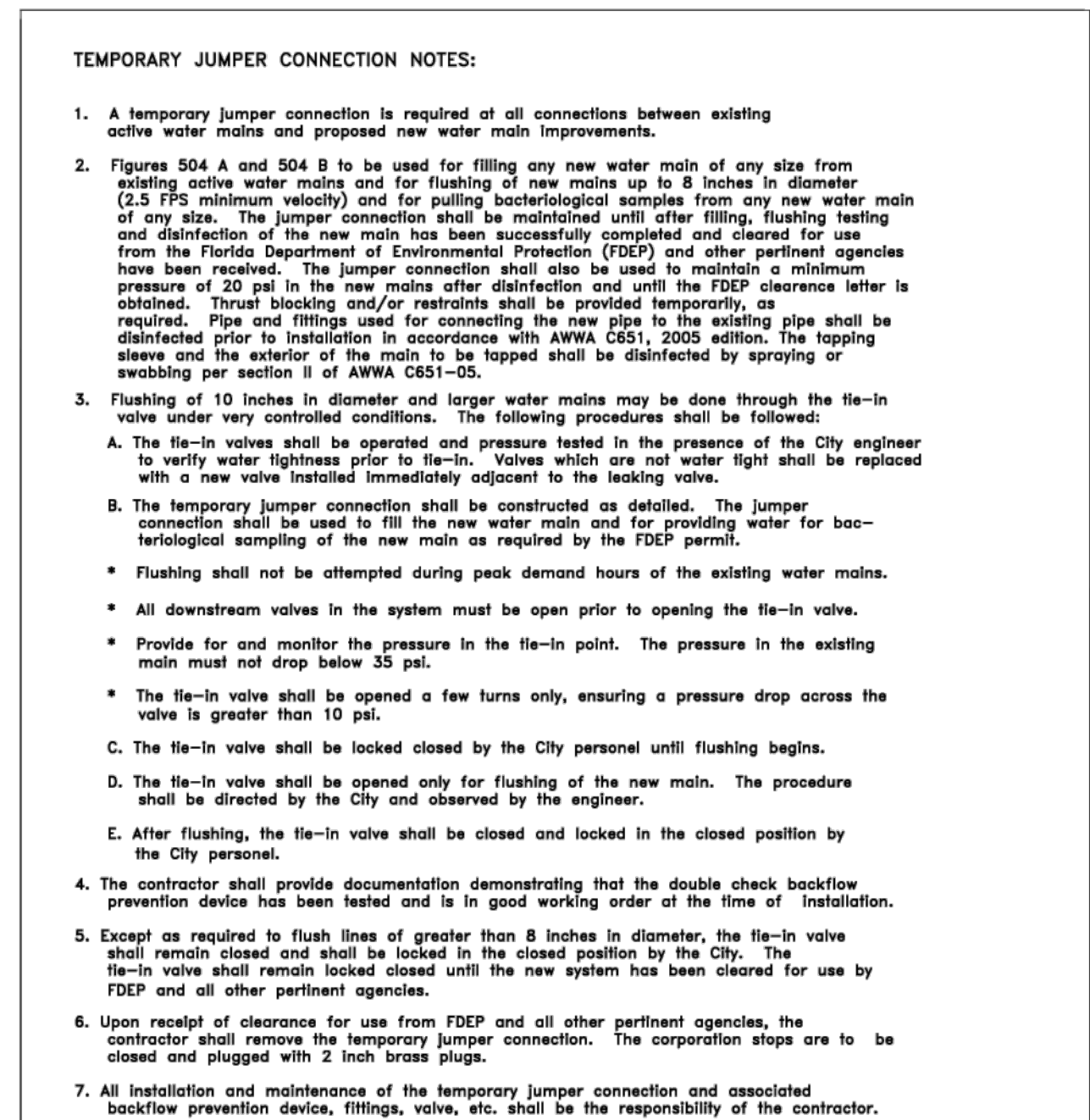
2 INCH AND ABOVE ASSEMBLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 B
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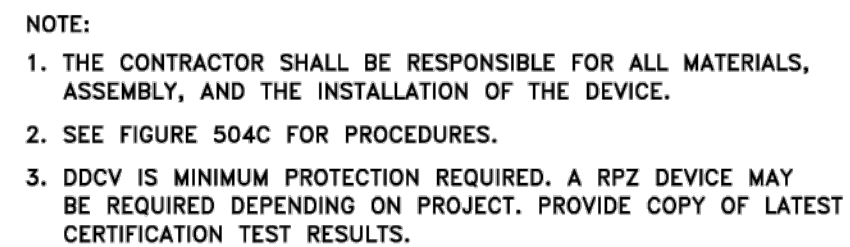
IRRIGATION METER AND DOUBLE CHECK VALVE OR
REDUCED PRESSURE BACKFLOW PREVENTER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 502
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PROCEDURES FOR TEMPORARY JUMPER CONNECTION

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 504 C
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TEMPORARY JUMPER CONNECTION

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 504 A
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**4203
HOGSHEAD LLC**

4203 HOGSHEAD ROAD

ISSUE DATE:	10/07/2025
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[illegible]

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Garth R. Ritter on the date adjacent to the seal.
Signature must be verified on any electronic
copies.

DRAFTED:	GPR
DESIGNED:	GPR
REVIEWED:	GRR
PROJECT NUMBER:	23027

SHEET:
C11.2

RILEY & Company, Inc. (H-20 GP)[®]
w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS
(No Substitutions - No Alternates)

PUMPS: SPECIFICATION

Submersible grinder pumps shall be installed in the H-20 FRP wet well utilizing a dual slide rail system.

The pumps shall be capable of pumping materials normally found in domestic and commercial wastewater.

Stator winding shall be open type with Class H insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts and other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with a magnetic contactor coil in the control panel. If the winding temperature exceeds 140° C, the motor shall shut off but shall automatically reset when the temperature drops below the threshold. Two heat sensors shall be used on 3 phase motors. Upper & lower mechanical seals shall have Silicon Carbide vs Silicon Carbide.

CONTROL PANEL: SPECIFICATION

The Enclosure shall be NEMA 4X, minimum 30" high x 20" wide x 10" deep with a 3 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting.

The following components shall be mounted through the enclosure:

- 1-ea. Red Alarm Beacon (Light) LED 360 Degree viewable range, NEMA 4X
- 1-ea. Alarm Horn (minimum 95 DCB), ROHS 3 Compliant, NEMA 4X
- 1-ea. Generator Receptacle w/ weatherproof cover 60A Minimum. Shall meet UL 1682, UL 1686 and UL486E Compliance.

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

- 2-ea. IEC style Motor Contactors
- 1-ea. Volt Monitor (1 Ph) Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1-ea. Alternator w/ Pump Lead Switch
- 1-ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1-ea. Model RCBS5AH Battery Back-Up w/ Smart Charger (UPS) - 24 Hr Min.
- 20-ea. Terminals For Field Connections
- 6-ea. Terminals For Motor Connections (Single Phase Only)
- 7-ea. Grounding Lugs
- 1-ea. Lightning and Surge Protection shall meet the UL 1449 2nd Edition

The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1-ea. Main Circuit Breaker - UL489
- 1-ea. Emergency Circuit Breaker - UL 489
- 1-ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2-ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1-ea. Control Circuit Breaker & GFCI Circuit Breaker - UL 489
- 1-ea. GFI Duplex Convenience Outlet - NEMA 5-15R
- 2-ea. Elapsed Time Meter, Non-Resettable

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained with in a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting. The control panel must be manufactured in-house by the lift station manufacturer and be a TUV (UL508A Certified) facility.

WET WELL: SPECIFICATION

Wet Well FRP Wall Laminate must be designed to withstand wall collapse or buckling based on third party specifications and the assumptions below.

- *Hydrostatic Pressure: 62.4 lbs. Per SQ Ft.
- *Saturated Soil Weight: 120 lbs. Per Cubic Ft.
- *Soil Modulus: 700 lbs Per SQ Ft.
- *Pipe Stiffness as Specified in ASTM D 3753

The wet well FRP laminate must be constructed to withstand or exceed two times the assumed loading for the complete depth of the structure.

The cover shall be constructed of ¼ inch thick finished aluminum, diamond plate pattern with 300 series stainless steel hardware. The hatch shall have a positive means of locking the door open in the vertical position via a hold open arm and shall be made of a non-corrosive material. The cover shall be mounted with minimum of six 300 series stainless steel fasteners. The access hatch cover shall have a lift handle and a means of locking.

The prefabricated FRP lift station manufacturer shall guarantee the prefabricated lift station per approved drawings for a period of one year from the date of delivery.

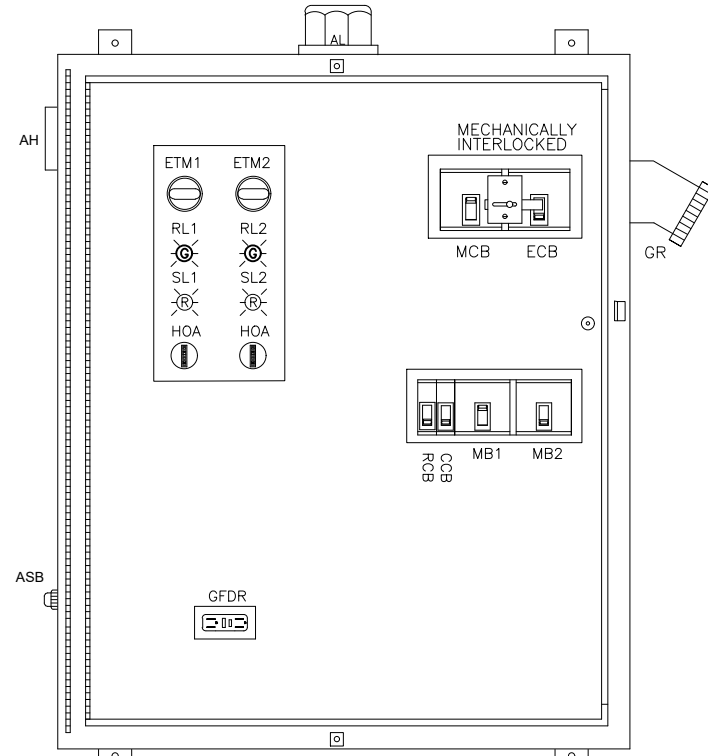
INSPECTION & TESTING:

A factory representative shall be provided for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of the complete system. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor and cable is intact. The pumps and the controls shall be checked for mechanical reliability and proper operation.

EXECUTION:

Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the engineered drawings.

STATION DESIGN CONDITIONS		
PRIMARY PUMP CAPACITY	84	GPM
PRIMARY TDH	66.71	'TDH
RUN-OUT PUMP CAPACITY	88	GPM
RUN-OUT TDH	17.50	'TDH
PUMP MODEL #	HOMA GRP44/3/C	
R.P.M.	3450	
HORSEPOWER	5.5	
ELECTRICAL VOLTS / PHASE	230V/3Φ	
PUMP DISCHARGE SIZE	2"	
STATION ELEVATIONS AND DIMENSIONS		
100 YEAR FLOOD ELEVATION		100.27'
WET WELL DIAMETER (A)	48"	
INVERT DIAMETER (B)	8"	
TOP OF WET WELL (C)	106.00'	
INLET / INVERT (D)	100.50'	
HIGH LEVEL ALARM (HLA) (E)	100.50'	
2nd PUMP ON (LAG) (F)	99.65'	
1st PUMP ON (LEAD) (G)	99.15'	
PUMPS OFF (OFF) (H)	98.25'	
BOTTOM OF WET WELL (I)	95.75'	
DISCHARGE PIPE DIAMETER (J)	2"	
GUIDE RAIL DIAMETER (K)	1"	
F.M. PIPE DIAMETER (L)	4"	
REDUCER (If Required) (M)	4"	X2"
STATION MANUFACTURING MATERIALS		
DISCHARGE/RISER PIPE	HDPE	
INLET PIPE	PER EOR	
GUIDE RAIL	304 SS	
WET WELL	FRP ASTM D-3753	
WET WELL HATCH COVER	300 LBS PSF ALUM	
CABLE BRACKET	304 SS	
LIFTING CHAIN	304 SS	
PLUG VALVE	CAST IRON	
SWING CHECK VALVE	CAST IRON	
VALVE BOX	FRP	
VALVE BOX HATCH COVER	300 LBS PSF ALUM	
STATION VALVE BOX SIZES		
(36" x 36" x 36" DEEP)	FOR 2" DISCHARGE	
(48" x 48" x 36" DEEP)	FOR 3" DISCHARGE	
(48" x 48" x 36" DEEP)	FOR 4" DISCHARGE	
STATION HATCH OPENINGS		
WET WELL DIA.	36"	48"
	27" x 20"	36" x 24"
		36" x 30"
CONCRETE BALLAST REQUIREMENTS		
CUBIC YARDS OF CONCRETE REQUIRED (V)		2.0 yds ³
CIRCUMFERENCE DIMENSION - WIDTH (W)		12.0"
CIRCUMFERENCE DIMENSION - HEIGHT (X)		8.0"
BASE SLAB DIMENSION - HEIGHT (Y)		18.0"
BASE SLAB DIMENSION - LENGTH & WIDTH (Z)		72.0"



- 1- OUTER DOOR REMOVED TO SHOW DEADFRONT LAYOUT. NEMA TYPE 4X ENCLOSURE. ALL HARDWARE STAINLESS STEEL. ACTUAL LAYOUT/ORIENTATION MAY VARY.
- 2- ENCLOSURE SIZE WILL BE 30" X 20" X 10" MINIMUM. CONTROL PANEL SHALL HAVE A 3 POINT LATCHING SYSTEM.

18"

PRIVATE
SANITARY SEWER
PUMP STATION

IN CASE OF EMERGENCY CONTACT THE
FOLLOWING NUMBERS:

FACILITY OWNED BY:
NAME: _____
PHONE NUMBER: _____

FACILITY MAINTAINED BY:
NAME: _____
PHONE NUMBER: _____

STATION NUMBER: _____

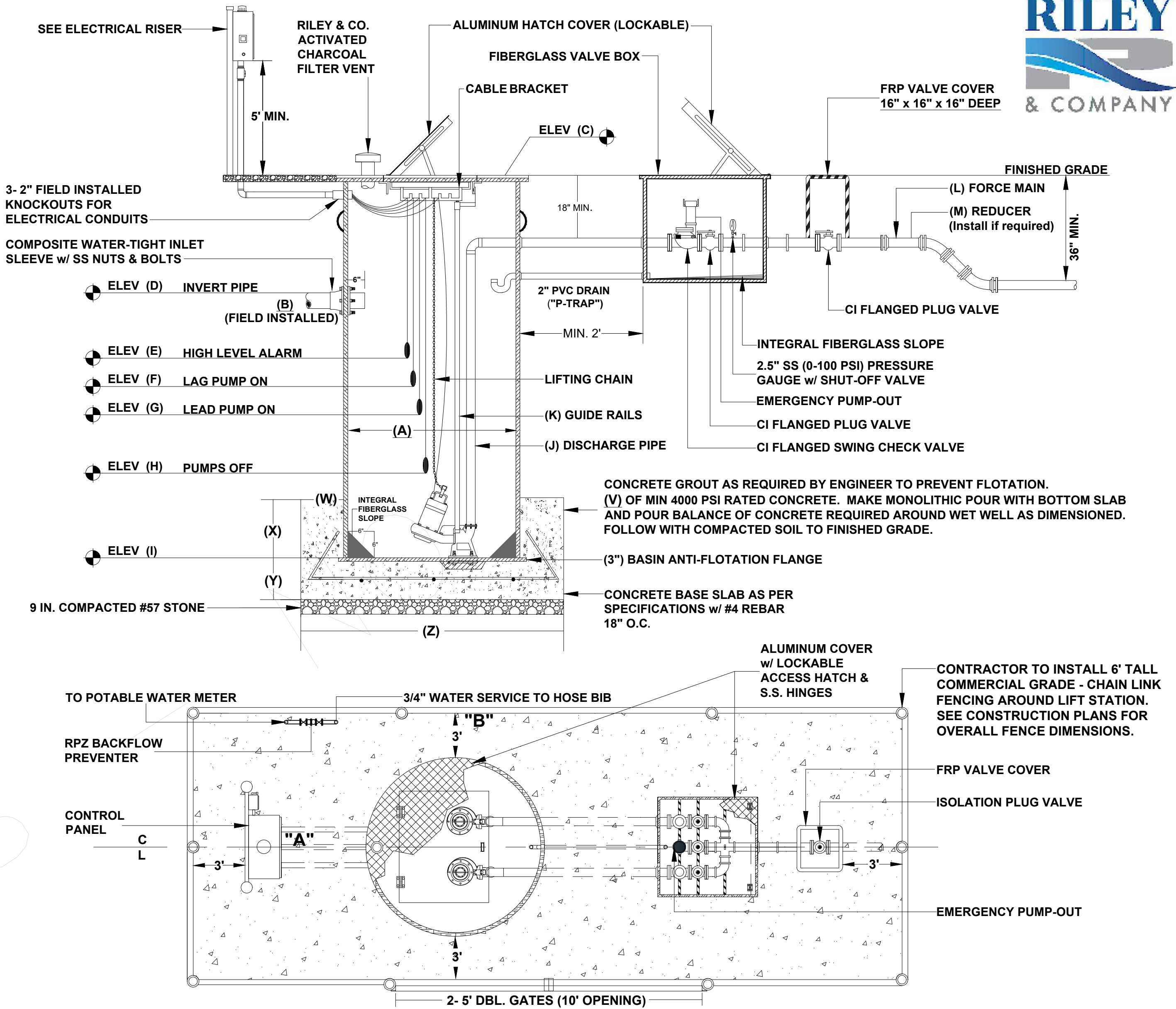
24"

NOTE: CONTRACTOR MUST SUPPLY
INFORMATION SIGN AT START-UP.

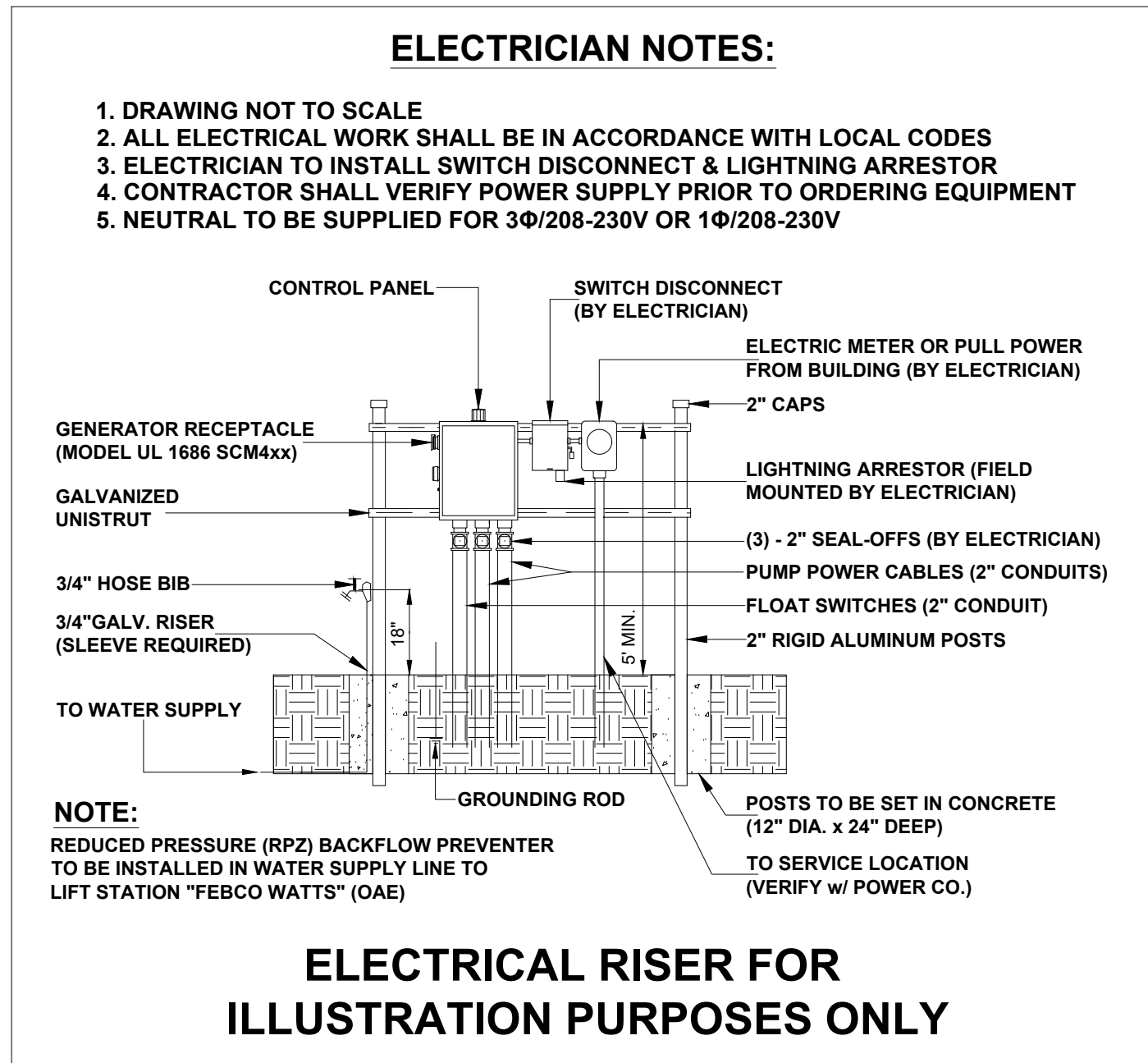
LIFT STATION WILL BE PRIVATELY
OWNED AND MAINTAINED.

NOTE: PRIOR TO START-UP OWNER MUST HAVE
A MINIMUM 1 YR. PREVENTIVE MAINTENANCE
CONTRACT WITH A REPUTABLE LIFT STATION
MAINTENANCE COMPANY.

NO SUBSTITUTIONS - NO ALTERNATES



NOTE: PUMP CONTROL PANEL SHALL BE LOCATED A MIN. OF 3 FEET FROM WET WELL PERIMETER AT POINT "A" OR "B"



THIS IS A COPYRIGHTED DRAWING. ANY
CHANGES OR MODIFICATIONS WITHOUT
WRITTEN APPROVAL FROM RILEY &
COMPANY IS STRICTLY PROHIBITED.

NOTE: LIFT STATION DETAIL SHEET PROVIDED BY OTHERS FOR INFORMATION
ONLY. IT MAY CONTAIN INFORMATION THAT DIFFERS FROM THAT CONTAINED IN
PROJECT NOTES, SPECIFICATIONS, AND DETAILS SHOWN ELSEWHERE IN THE
PLANS. TYPICALLY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
SUBJECT TO DETERMINATION BY THE ENGINEER, ELECTRICAL, STRUCTURAL,
GEOTECHNICAL AND MECHANICAL ENGINEERING DETAILS AND ELEMENTS
SHOWN, IF ANY, ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY, ARE
NOT THE RESPONSIBILITY OF THE CIVIL / SITE ENGINEER, AND ARE NOT
COVERED UNDER THEIR SIGNATURE AND SEAL PROVIDED ON THIS SHEET.

01/01/25 SR

PREPARED BY:
RITTER CIVIL
ENGINEERING - PLANNING
460 PINEY CROFT LANE MAITLAND, FL 32751
407-436-7276 ■ WWW.RITTERCIVIL.COM

PREPARED FOR:
4203
HOGSHEAD LLC

UTILITY DETAILS
4203 HOGSHEAD ROAD

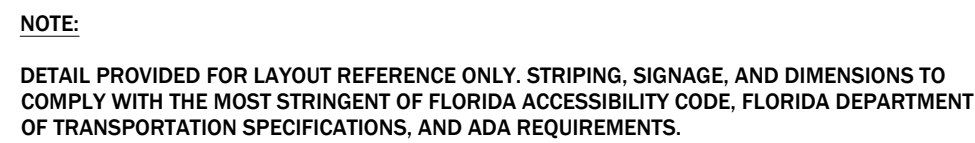
ISSUE DATE:	10/07/2025
REVISION:	
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REVISION:	

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DESIGNED:	GPR
REVIEWED:	GPR
PROJECT NUMBER:	23027

SHEET:
C11.3



NTS



FDOT INDEX 711-001



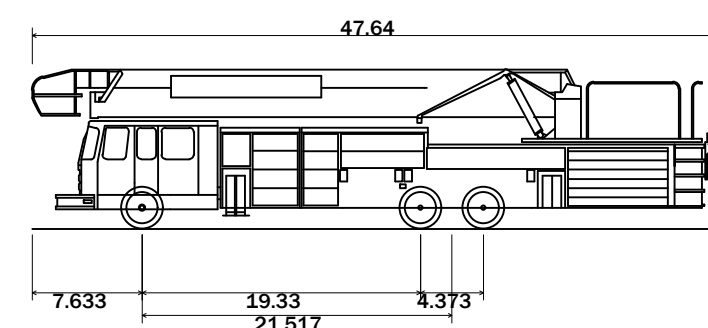
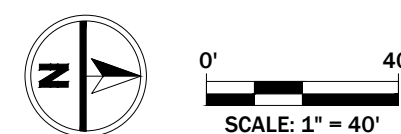
0' 40'

SCALE: 1" = 40'

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DRAFTED:	GPR
DESIGNED:	GPR
REVIEWED:	GRR
PROJECT NUMBER:	23027

SHEET:
C13.0



2025 Apopka Tower	
Overall Length	47.640ft
Overall Width	8.410ft
Overall Body Height	11.080ft
Min Body Ground Clearance	0.920ft
Track Width	8.330ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	46.00°

PLAN LEGEND:

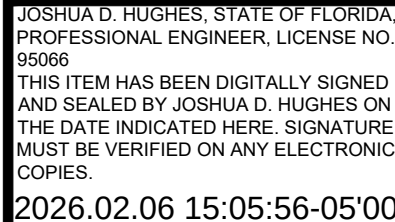
———— VEHICLE BODY ENVELOPE
- - - - - WHEEL PATH

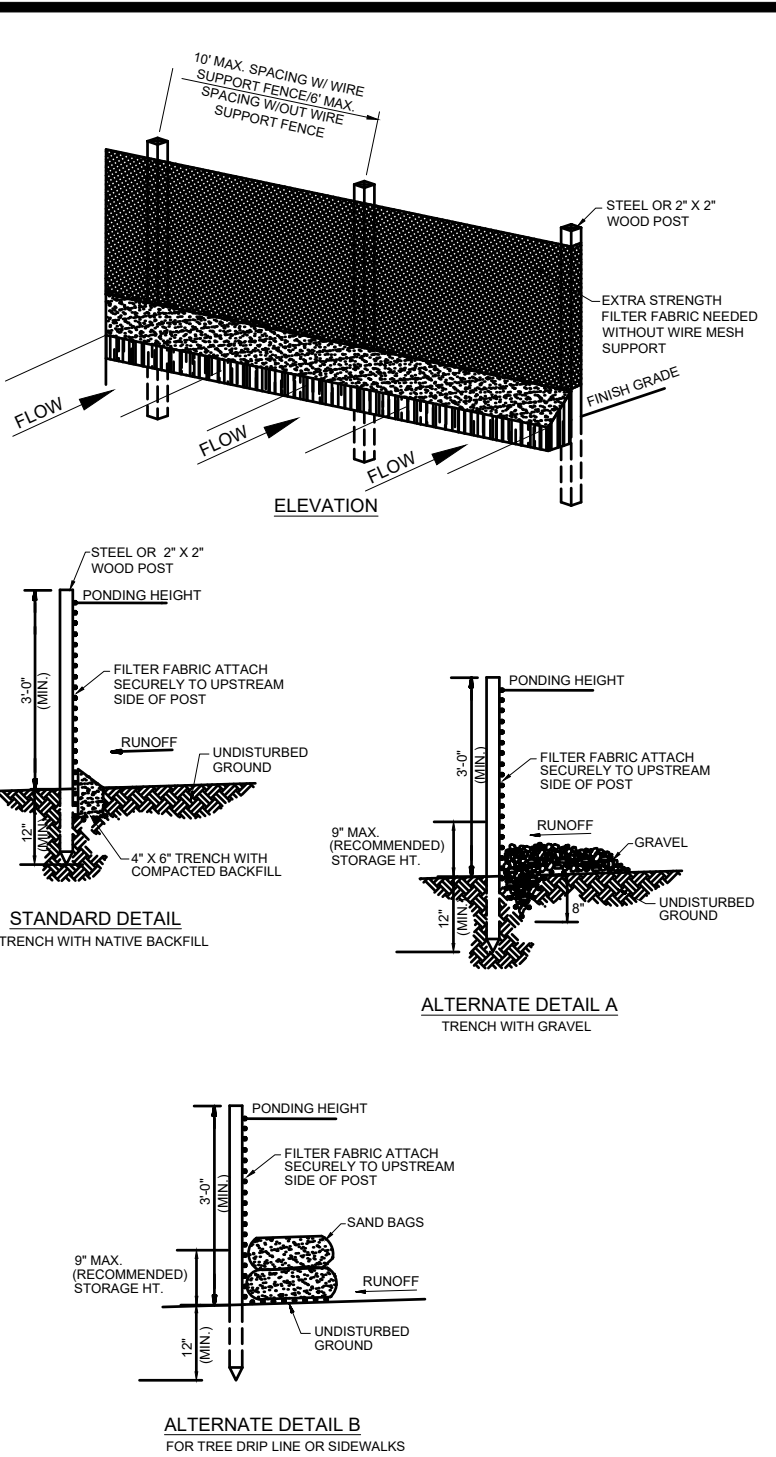
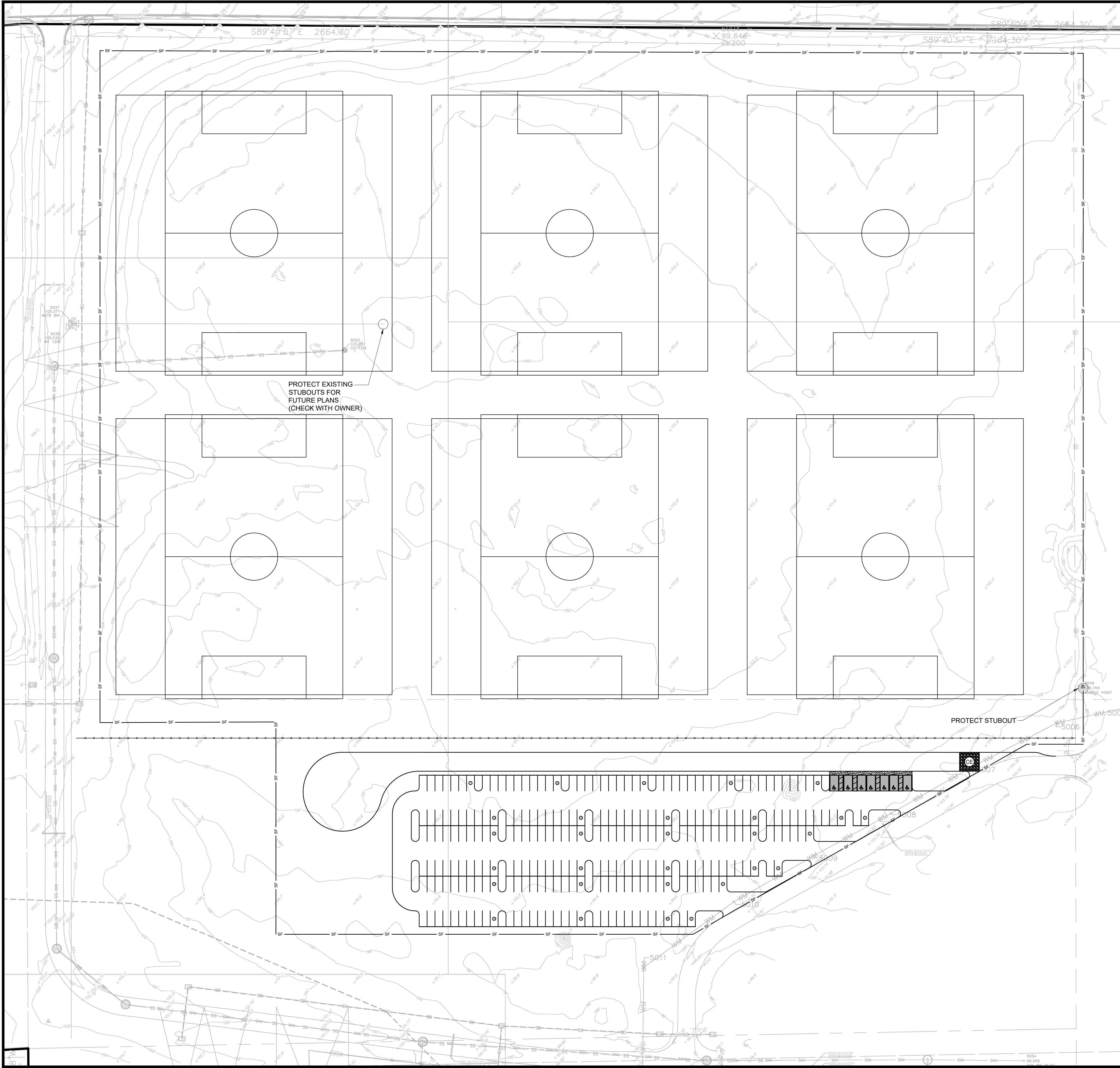
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APOPKA NORTHWEST RECREATION CENTER SOCCER FIELDS EXPANSION

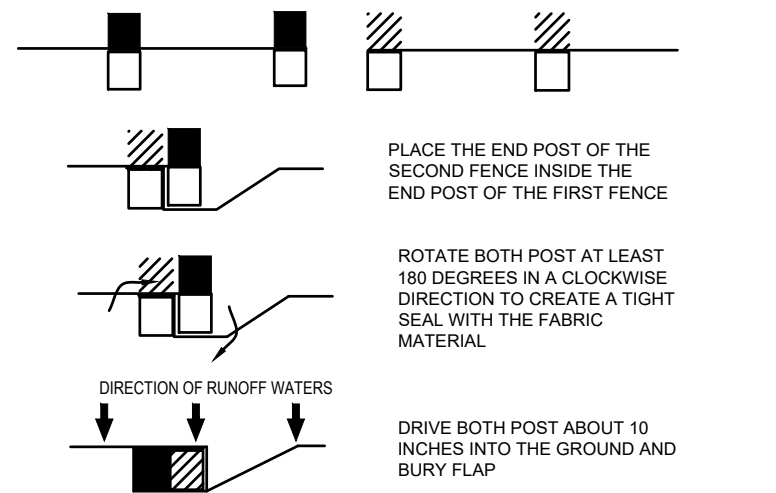
PARCEL ID:19-20-28-0000-00-048
SECTION 19 - TOWNSHIP 20- RANGE 28

[illegible]



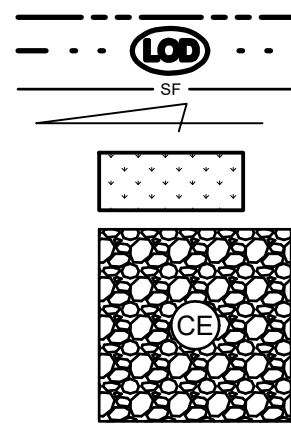
NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SEDIMENTATION / SILT FENCE
N.T.S.



ATTACHING TWO SILT FENCES
N.T.S.

LEGEND



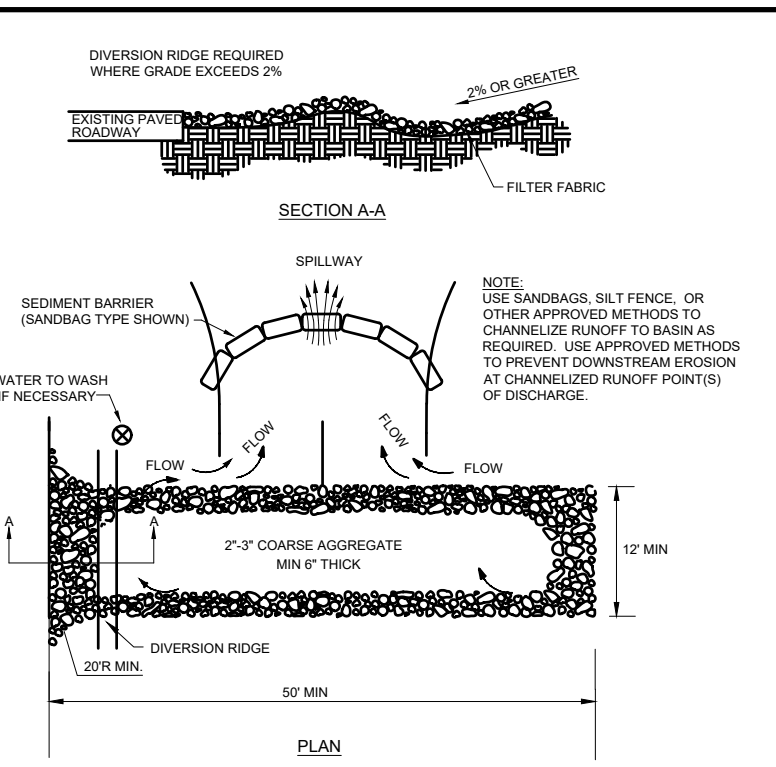
PROPERTY LINE
LIMITS OF DISTURBANCE
SILT FENCE
OVERLAND FLOW DIRECTION ARROW
PERMANENT SODDING, SEEDING,
OR MULCHING FOR ANY DISTURBED AREAS.
(SEE LANDSCAPE PLANS)

TEMPORARY CONSTRUCTION ENTRANCE/EXIT
SEE DETAIL ON THIS SHEET

NOTE:
ITEMS SHOWN SCREENED REPRESENT EXISTING CONDITIONS. ITEMS SHOWN BOLD REPRESENT PROPOSED CONDITIONS.
SEE SHEET C2.1 FOR STORMWATER POLLUTION PREVENTION NOTES.

ACREAGE SUMMARY

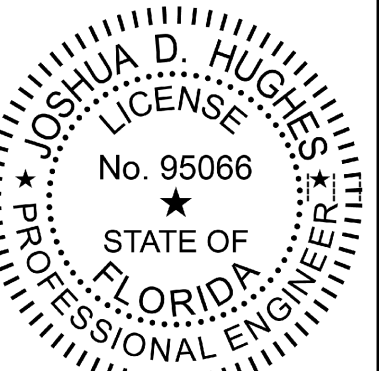
TOTAL SITE AREA	21.01 AC
TOTAL DISTURBED AREA	21.01 AC



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY CONSTRUCTION EXIT DETAIL
N.T.S.

Plans Prepared By:
CPh, LLC
A Full Service A & E Firm



JOSHUA D. HUGHES, STATE OF FLORIDA
PROFESSIONAL ENGINEER, LICENSE NO. 95066
THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY JOSHUA D. HUGHES ON
THE DATE INDICATED HERE. SIGNATURE
MUST BE VERIFIED ON ANY ELECTRONIC
COPIES.

No.	Date	Revision
1		
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Designed: J. STOCKHAM
Drawn: A. YOELL
Checked: J. HUGHES
Job No.: 2501352
Date: 06/2025 © 2026

SWPP PLAN
**APOPKA NORTHWEST RECREATION
CENTER SOCCER FIELDS EXPANSION**
APOPKA, ORANGE COUNTY, FL

THIS SHEET NOT VALID FOR
CONSTRUCTION WITHOUT
COMPLETE SET OF PLANS.

STORMWATER POLLUTION PREVENTION NOTES

THESE PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN OBTAINING COVERAGE UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PERMIT REQUIREMENTS AND MODIFY THESE PLANS AS NEEDED TO BE IN COMPLIANCE WITH THE PERMIT REQUIREMENTS.

1. SITE DESCRIPTION

A. SITE LOCATION
THE PROJECT IS LOCATED AT 3910 JASON DINELEY PKWY, APOPKA, ORANGE COUNTY, FL
SECTION 19, TOWNSHIP 20, RANGE 28
LATITUDE: 28°49'25.19"N LONGITUDE: 81°16'25.78"W

B. SITE CONDITIONS & ACTIVITIES NARRATIVE

THE EXISTING CONDITION OF THE SITE IS PARTIALLY VACANT LAND AND PARTIALLY AN INDUSTRIAL BUILDING. DURING CONSTRUCTION THE SITE WILL BE CLEARED AND GRUBBED. THIS PROJECT WILL HAVE NO MAJOR EFFECT ON ANY OF THE ADJACENT PROPERTIES.

C. WETLANDS/BUFFERS

NO WETLANDS OR BUFFERS ARE ASSOCIATED WITH THIS PROJECT.

D. SWPPP INTENT

THE INTENT OF THIS SWPPP IS TO COMPLY WITH THE INTENT OF THE GENERIC PERMIT AND TO PREVENT THE RELEASE OF SOILS, TRASH, CHEMICALS, TOXINS AND OTHER POLLUTANTS BY THE CONSTRUCTION TRANSPORT OR OTHER MEANS THAT CAN IMPACT STORM WATER QUALITY. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GENERIC PERMIT AND RETAIN ON-SITE FOR FUTURE REFERENCE. THE CONTRACTOR SHALL READ AND UNDERSTAND THE PERMIT, AND ENSURE THAT THE BMPs ARE INSTALLED AND THE EXECUTION OF THE WORK IS PERFORMED TO MEET THE INTENT OF THE GENERIC PERMIT AND THE SWPPP.

E. POTENTIAL SOURCES OF POLLUTION

THE POTENTIAL SOURCES OF POLLUTION THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE: SEDIMENT, PESTICIDES, FERTILIZER, PLASTER, CLEANING SOLVENTS, ASPHALT, CONCRETE, GLUE, ADHESIVES, PAINTS, CURING COMPOUNDS, WOOD PRESERVATIVES, HYDRAULIC OIL FLUIDS, GASOLINE, DIESEL FUEL AND KEROSENE.

F. SEQUENCE OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION HAS BEEN DEVELOPED AS A GUIDE FOR THE CONTRACTOR. THE CONTRACTOR SHALL SEQUENCE THE CONSTRUCTION AS NEEDED BASED ON BEST MEANS AND METHODS IN ORDER TO BE IN COMPLIANCE WITH STATE AND LOCAL REQUIREMENTS. THE INSTALLATION OR REMOVAL OF BMPs, EARTH DISTURBANCE, GRADING, TEMPORARY STABILIZATION AND PERMANENT STABILIZATION SHALL BE IMMEDIATELY NOTED IN THE SWPPP. THE CONTRACTOR SHALL RETAIN RECORDS OF THE SEQUENCE OF CONSTRUCTION. STABILIZATION HAS OCCURRED AND THERE IS NO RISK OF DISCHARGE. TEMPORARILY SEED, IMMEDIATELY AND THROUGHOUT CONSTRUCTION, DENUDATED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.

1. POST A COPY OF THE NOI OR LETTER FROM FDEP CONFIRMING COVERAGE UNDER THE GENERIC PERMIT, AND THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL, INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
2. INSTALL PERMITTER CONTROLS IMMEDIATELY DOWNSTREAM OF THE PLANNED LOCATION OF THE CONSTRUCTION EXIT.
3. INSTALL STABILIZED CONSTRUCTION EXIT.
4. INSTALL REMAINING PERMITTER CONTROLS. THE CONTRACTOR SHALL INSTALL THE REMAINING BMPs AS SHOWN AND AS REQUIRED TO MEET PERMIT REQUIREMENTS. SOME BMP INSTALLATIONS MAY NOT BE POSSIBLE AT THE BEGINNING OF THE PROJECT BUT MUST BE INSTALLED AS SOON AS POSSIBLE TO ENSURE COMPLIANCE.
5. INSTALL TEMPORARY STAGINGS AND STORAGE AREAS.
6. DECONSTRUCT AND STABILIZE THE SEDIMENT BASINS AND SEDIMENT TRAPS WITH APPROPRIATE OUTLET STRUCTURES, IF REQUIRED.
7. CONSTRUCT AND STABILIZE HYDRAULIC CONTROLS (DITCHES, SWALES, DIKES, CHECK DAMS, ETC.), IF REQUIRED.
8. BEGIN DEMOLITION, CLEARING AND GRUBBING OPERATIONS AS APPLICABLE.
9. BEGIN CONSTRUCTION OF SITE IMPROVEMENTS.
10. PAVE SITE AND STABILIZE PER PLAN.
11. MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE HAS ACHIEVED FINAL STABILIZATION.
12. SUBMIT NOTICE OF TERMINATION (NOT) ONCE ALL CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED PER PLAN.

G. GENERAL NOTES

- A. IF IT'S THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300A(B) OR LATEST VERSION) TO FDEP TO THE FOLLOWING ADDRESS OR THROUGH THE FDEP ON-LINE SYSTEM AT LEAST TWO (2) DAYS BEFORE COMMENCEMENT OF CONSTRUCTION:

NDPSS STORMWATER NOTICES CENTER, MS #2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32309-2400

THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) WITHIN 14 CALENDAR DAYS AFTER THE SITE HAS ACHIEVED FINAL STABILIZATION (I.E. ALL AREAS OF THE SOILS AND ALL TEMPORARY STABILIZATION). TEMPORARY BMPs HAVE BEEN REMOVED, AND STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE AUTHORIZED BY THE PERMIT HAVE BEEN ELIMINATED.

AN ENVIRONMENTAL RESOURCE PERMIT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL PROVIDE THE PERMIT INFORMATION ON THE NOI APPLICATION.

MS4 OPERATOR NAME: CITY OF APOPKA

THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOI AND SUBSEQUENT NOT OR THE ACKNOWLEDGMENT LETTERS FOR THE NOI OR NOT TO THE MS4 WITHIN 7 DAYS OF RECEIPT. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE MS4 TO ENSURE THAT ALL SPECIFIC REQUIREMENTS ARE MET.

B. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

C. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY, WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC. THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

- I. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
- II. NEW AND EXISTING STORMWATER INLETS AND OUTLET STRUCTURES SHALL BE STABILIZED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE ADOPTED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
- III. PERMITTER EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED.

D. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMPs SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION, WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC. THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.

E. THE CONTRACTOR SHALL FURNISH, INSTALL PER THE SEQUENCE OF CONSTRUCTION, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY TEMPORARY BMPs. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT BMPs.

F. THE CONTRACTOR SHALL ADJUST, ADD OR MODIFY BMPs AS NECESSARY TO COMPLY WITH THE INTENT OF THE GENERIC NPDES PERMIT AND THE SWPPP FOR NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO ADJUSTING, ADDING OR MODIFYING BMPs THAT AFFECT THE HYDRAULICS OF THE SITE OR BEFORE ADDING BMPs NOT DETAILED IN THE SWPPP.

G. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SIFTING ANY ADJACENT LOWLAND PARCELS OR READING WATER.

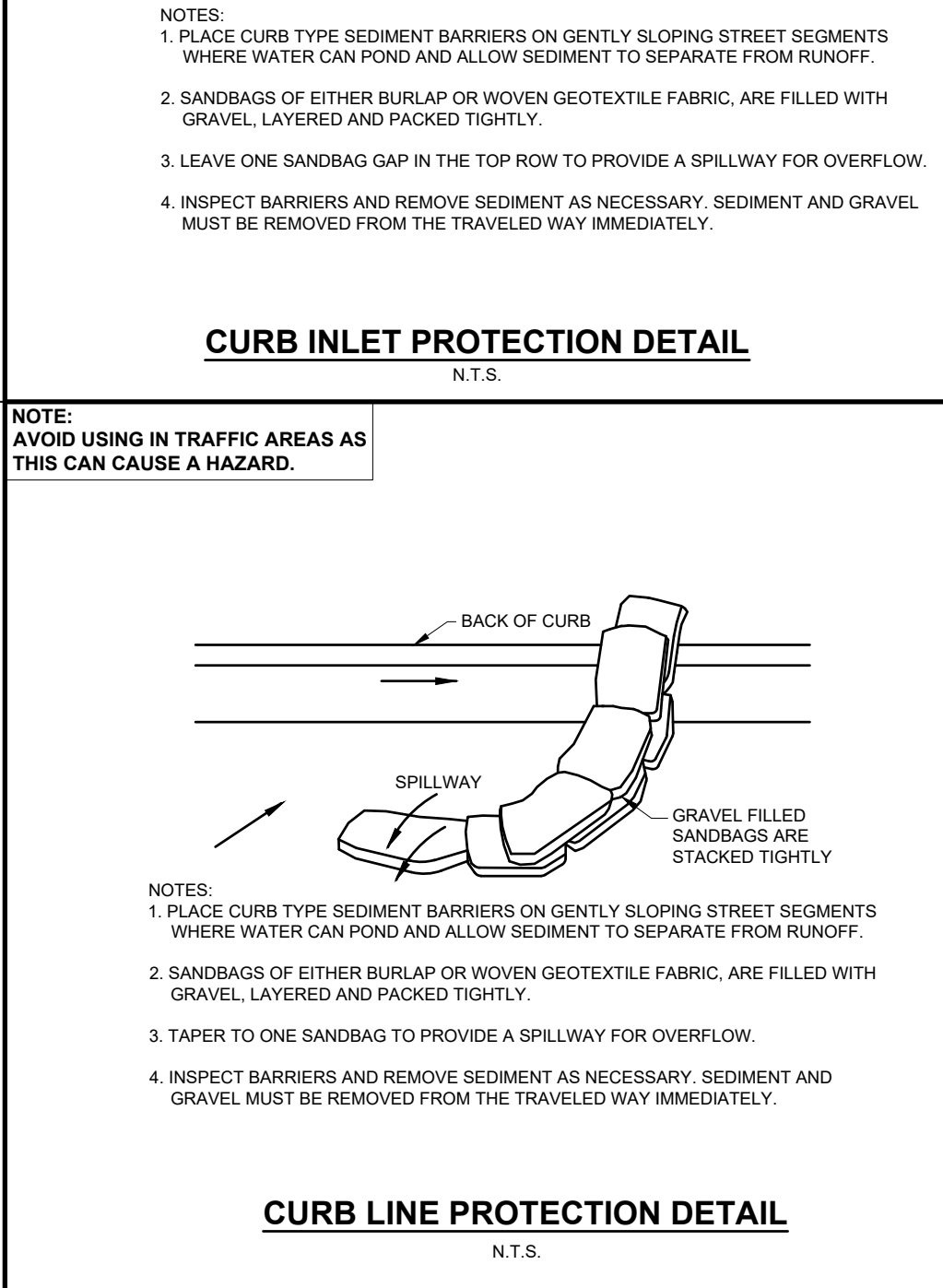
H. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DETERMINED NECESSARY AS A RESULT OF THE INSPECTION BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES NEEDED SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SOME OF THE BEST MANAGEMENT PRACTICES (BMPs). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FOOT NOTES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

- I. THE CONTRACTOR SHALL KEEP THE SWPPP CURRENT AT ALL TIMES. THE CONTRACTOR SHALL SIGN AND DATE ANY CHANGES TO THE SWPPP AND KEEP THEM AS RECORD DOCUMENTS WITH THE SWPPP. WHENEVER ANY OF THE FOLLOWING EVENTS OCCUR, THE CONTRACTOR SHALL UPDATE THE SWPPP WITHIN 7 DAYS:
 - II. THERE IS A CHANGE IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE FROM THE PROJECT
 - III. THERE IS A NEW DISCHARGE POINT OR OUTFALL
 - IV. THERE IS A CHANGE IN THE LOCATION OF A DISCHARGE POINT OR OUTFALL
 - V. AN INSPECTION REVEALS THAT BMPs ARE INEFFECTIVE AT ELIMINATING OR MINIMIZING POLLUTANTS IN THE STORMWATER DISCHARGE FROM THE SITE.
 - VI. THERE IS A NEW SUBCONTRACTOR IMPLEMENTING ANY PORTION OF THE SWPPP
 - VII. A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR GREATER THAN A REPORTABLE QUANTITY OCCURS DURING A 24-HOUR PERIOD

I. THE CONTRACTOR SHALL ENSURE THAT THE CONTRACTOR AND ALL SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING SWPPP CONTROL MEASURES FILL OUT THE CONTRACTOR/SUBCONTRACTOR CERTIFICATION TABLE INCLUDED IN THIS SWPPP.

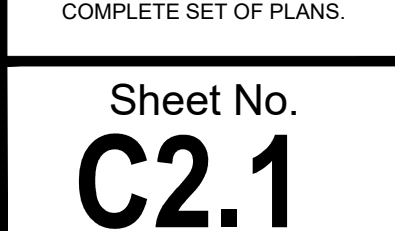
K. THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION SEQUENCE TABLE INCLUDING IN THIS SWPPP PRIOR TO PROCEEDING WITH THE INSTALLATION OF BMPs AND PRIOR TO GRUBBING/DISTURBANCE ACTIVITIES. THE CONTRACTOR SHALL COMPLETE THE TABLE WITH ANTICIPATED DATES IN WHICH THE BMP WILL BE INSTALLED OR THE ACTIVITY WILL OCCUR.

L. TURBIDITY



Maintenance Personnel:		

The contractor shall complete this table identifying the individuals on the stormwater team and their responsibilities.

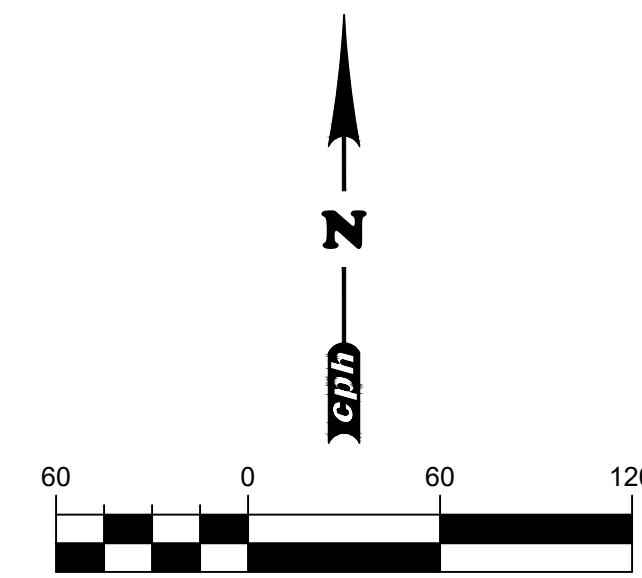


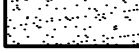


AREA OF PROPOSED IMPROVEMENTS: +/- 29 ACRE
IMPERVIOUS AREA: 2625 SQFT
WMD PERMIT#: 51746-14

PARKING INFORMATION:
REQUIRED PARKING SPACES: N/A (OVERFLOW)

PROVIDED STANDARD PARKING SPACES: 255 SPACE
PROVIDED ADA SPACES: 7 SPACES



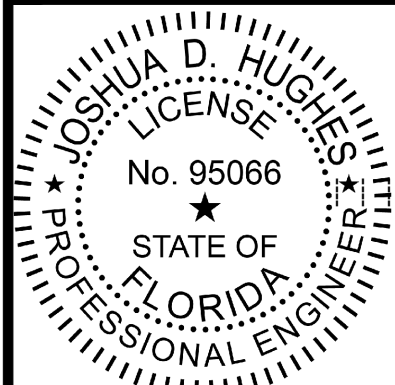
LEGEND	
	PROPERTY LINE
	BUILDING SETBACK LINE
	TWO-RAIL FENCE
	LANDSCAPE BUFFER
	SIDEWALK
	CONCRETE
	STANDARD DUTY ASPHALT
	PARKING SPACE COUNT
	PHASE 1
	PHASE 2
	PHASE 3

NOTE:
ITEMS SHOWN SCREENED REPRESENT EXISTING
CONDITIONS. ITEMS SHOWN BOLD REPRESENT
PROPOSED CONDITIONS.



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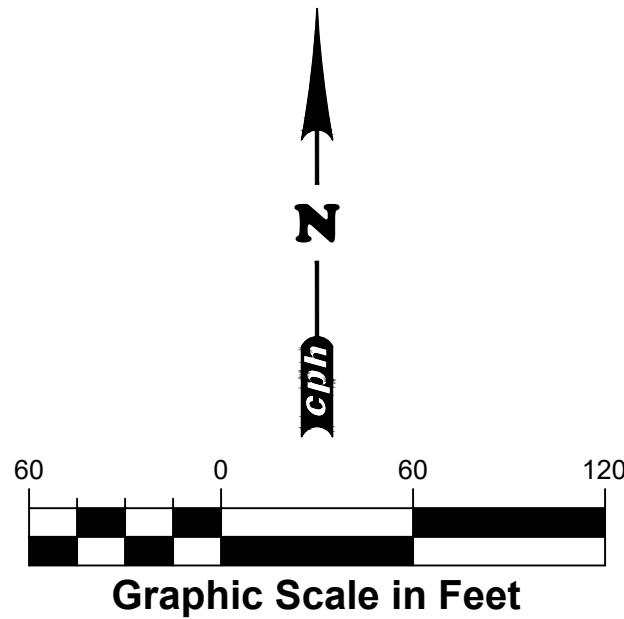
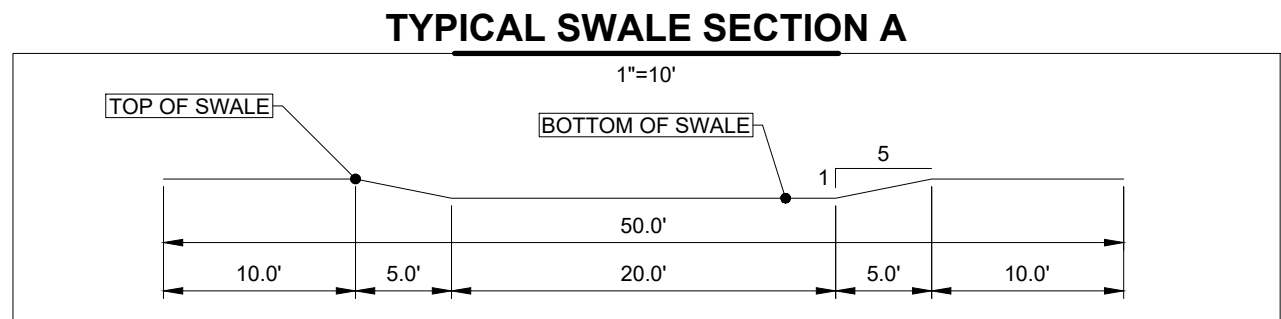
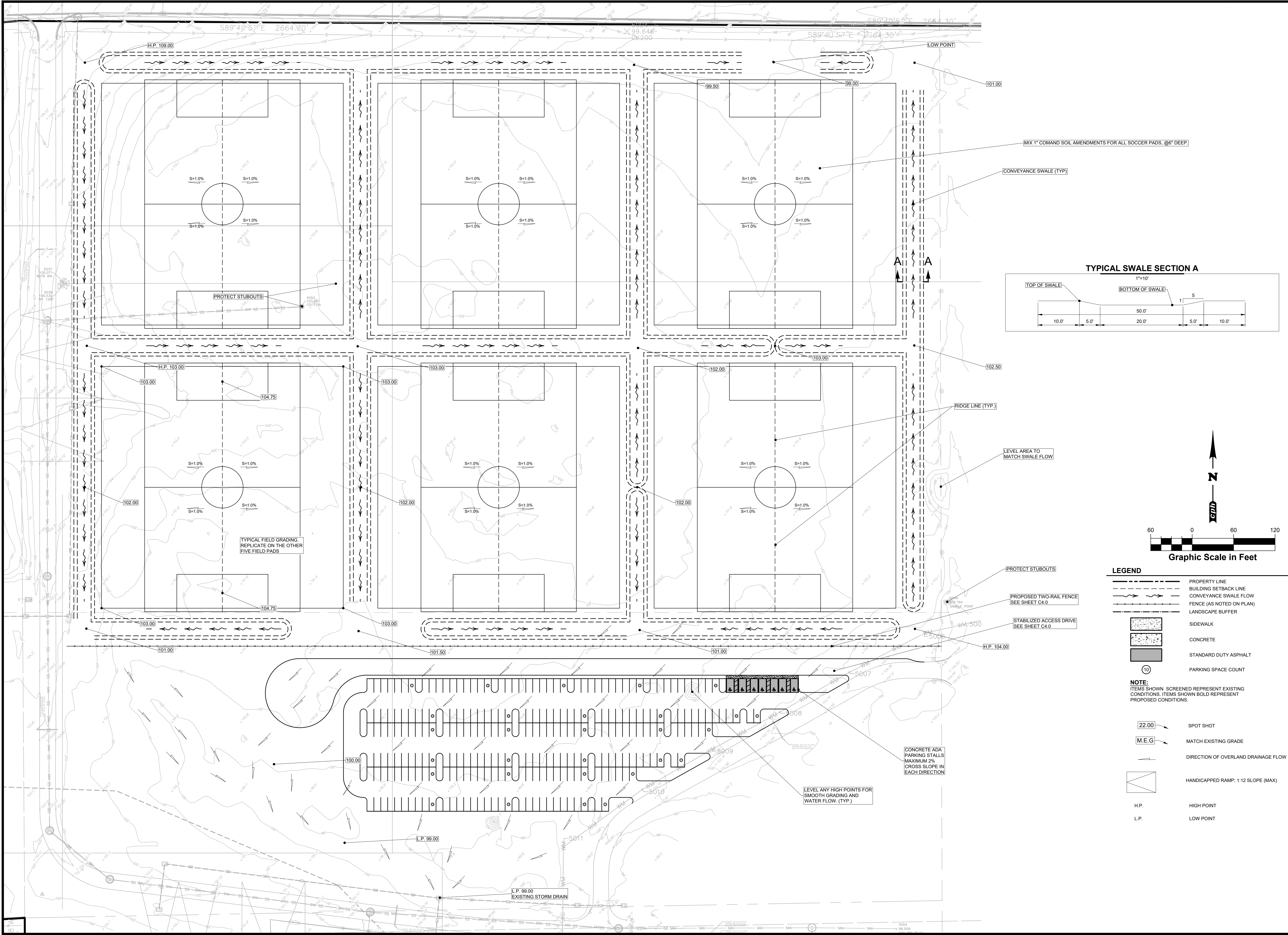
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Designed: J. STOCKHAM	
Drawn: A. YOELL	
Checked: J. HUGHES	
Job No.: 2501352	
Date: 06/2025	© 2026

SITE PLAN

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Sheet No.
C3.0



LEGEND

	PROPERTY LINE
	BUILDING SETBACK LINE
	CONVEYANCE SWALE FLOW
	FENCE (AS NOTED ON PLAN)
	LANDSCAPE BUFFER
	SIDEWALK
	CONCRETE
	STANDARD DUTY ASPHALT
	PARKING SPACE COUNT

NOTE:
 ITEMS SHOWN SCREENED REPRESENT EXISTING CONDITIONS. ITEMS SHOWN BOLD REPRESENT PROPOSED CONDITIONS.

	SPOT SHOT
	MATCH EXISTING GRADE
	DIRECTION OF OVERLAND DRAINAGE FLOW
	HANDICAPPED RAMP; 1:12 SLOPE (MAX)
H.P.	HIGH POINT
L.P.	LOW POINT

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 Checked: J. HUGHES
 Job No.: 2501352
 Date: 06/2025 © 2026

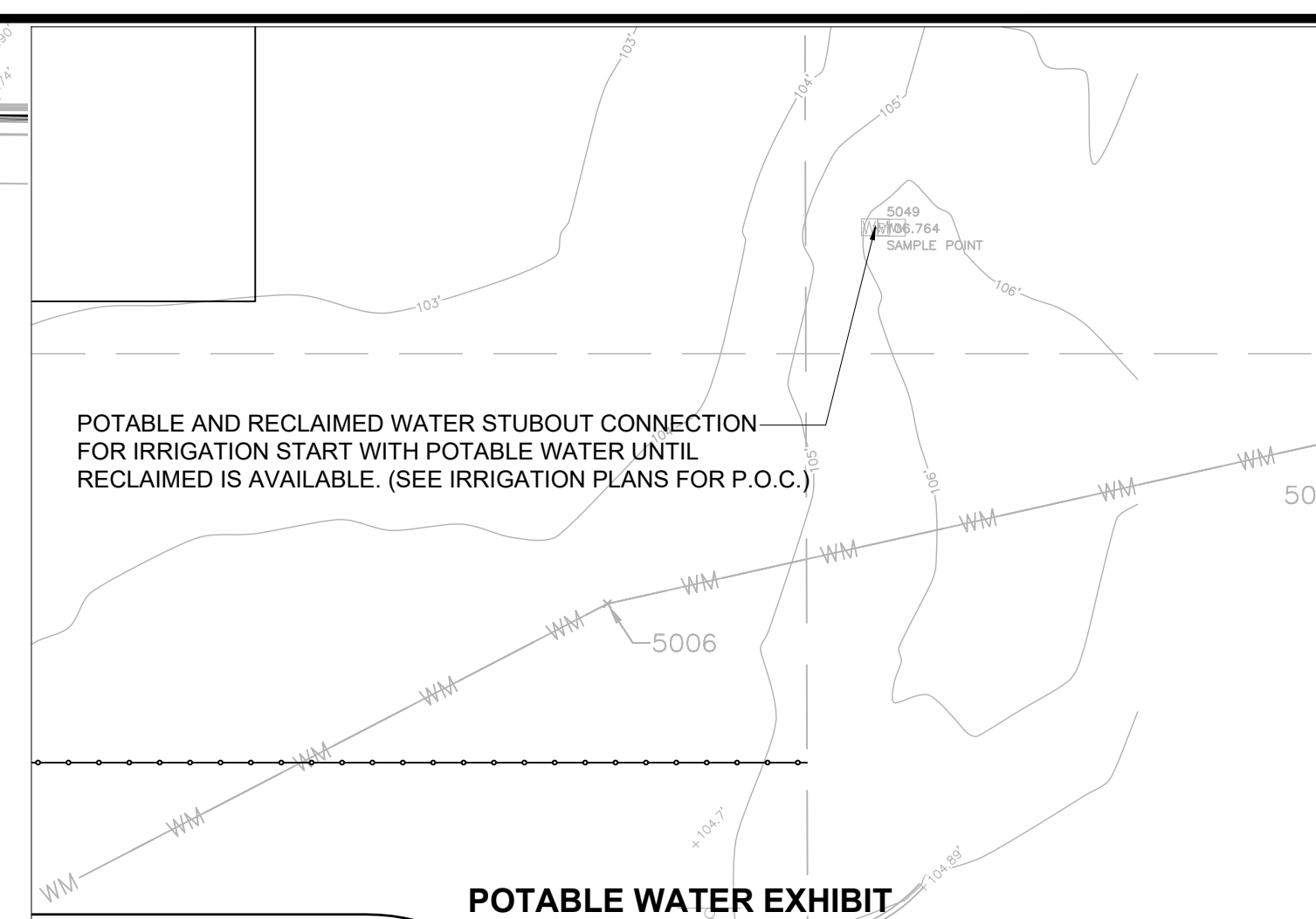
GRADING PLAN

APOPKA NORTHWEST RECREATION CENTER SOCCER FIELDS EXPANSION

APOPKA, ORANGE COUNTY, FL

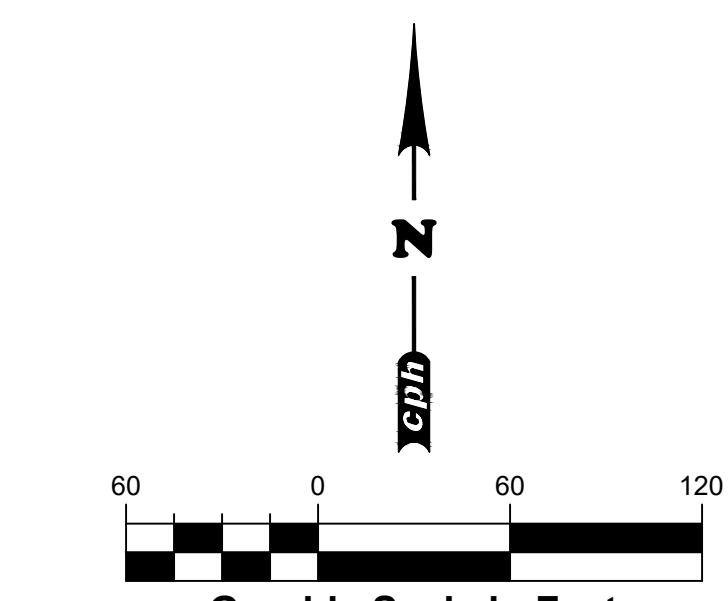
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Sheet No.
C3.1



POTABLE AND RECLAIMED WATER STUBOUT CONNECTION—
FOR IRRIGATION START WITH POTABLE WATER UNTIL
RECLAIMED IS AVAILABLE. (SEE IRRIGATION PLANS FOR P.O.C.)

POTABLE WATER EXHIBIT



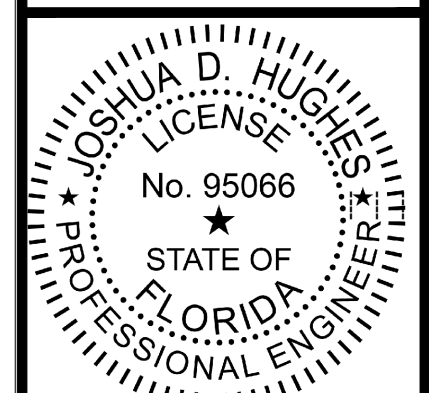
LEGEND

	PROPERTY LINE
	SANITARY SEWER
	WATER MAIN
	CLEAN OUT
	
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	WATER LINE FITTINGS
	GATE VALVE
	REDUCER
	SIDEWALK

NOTE:
ITEMS SHOWN SCREENED REPRESENT EXISTING
CONDITIONS. ITEMS SHOWN BOLD REPRESENT
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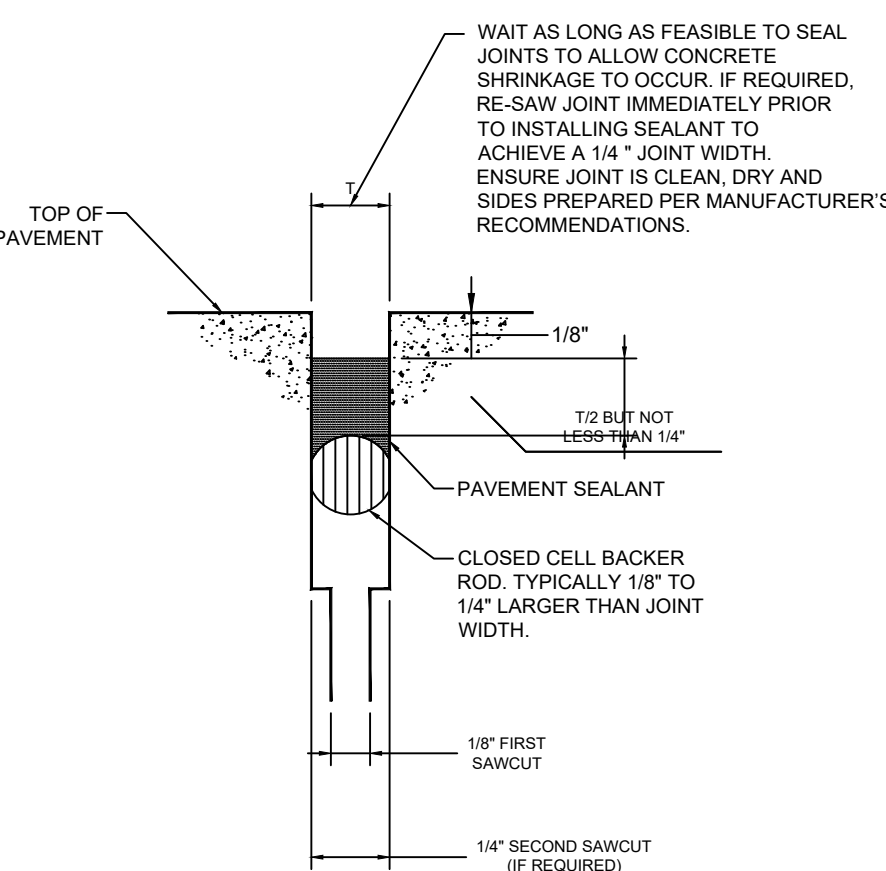
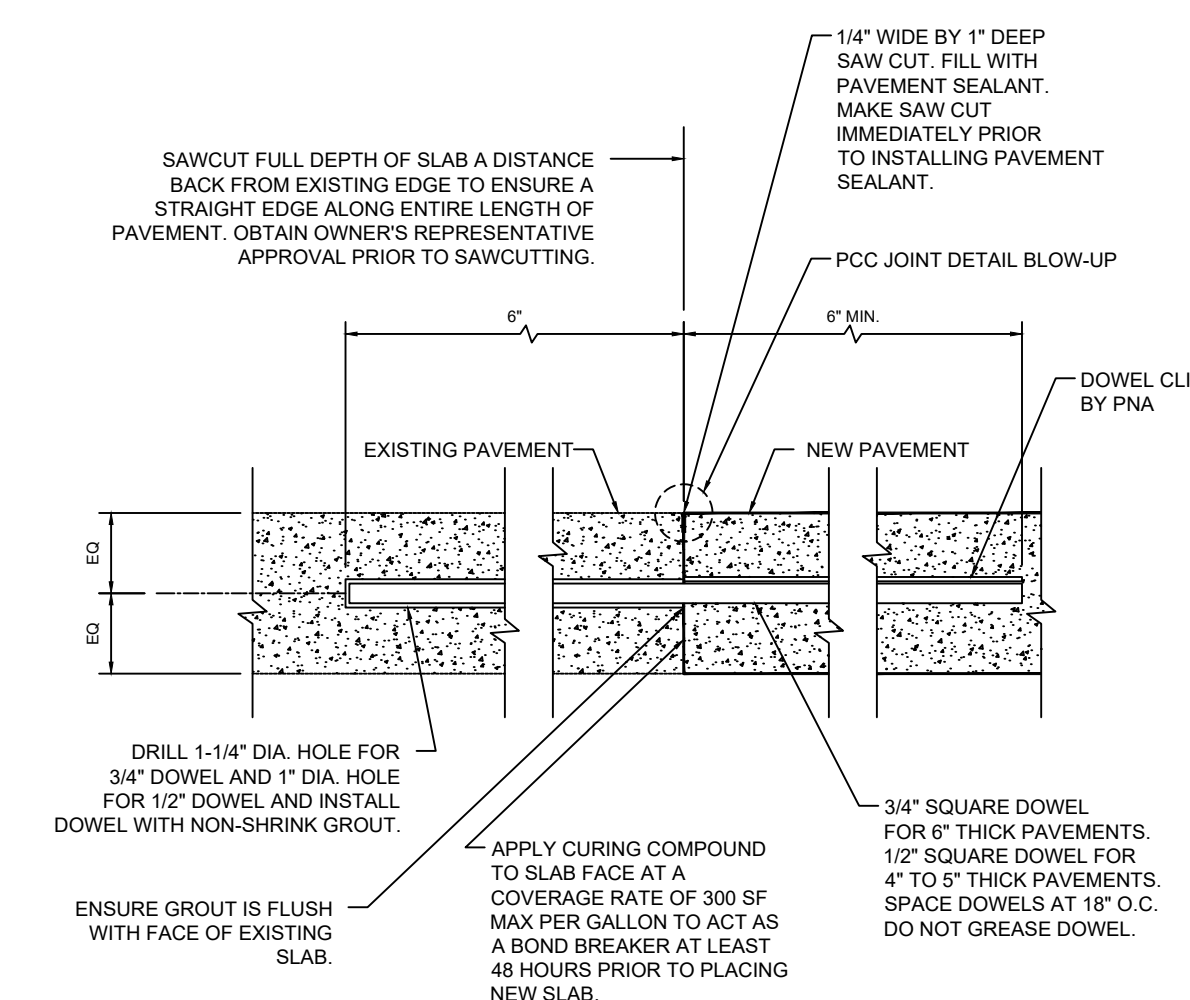
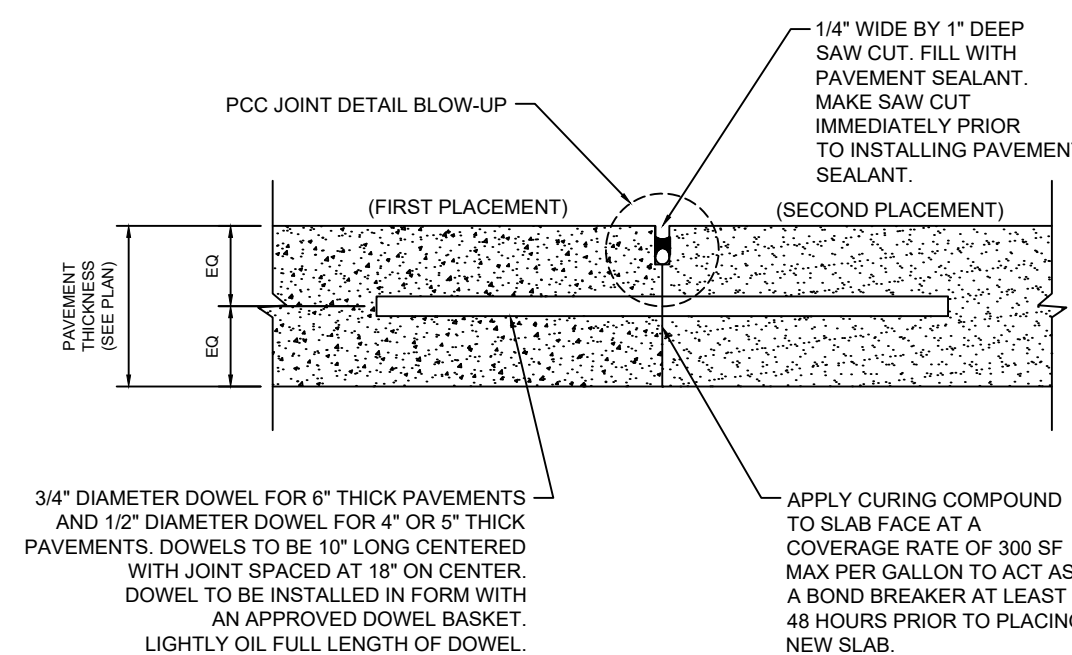
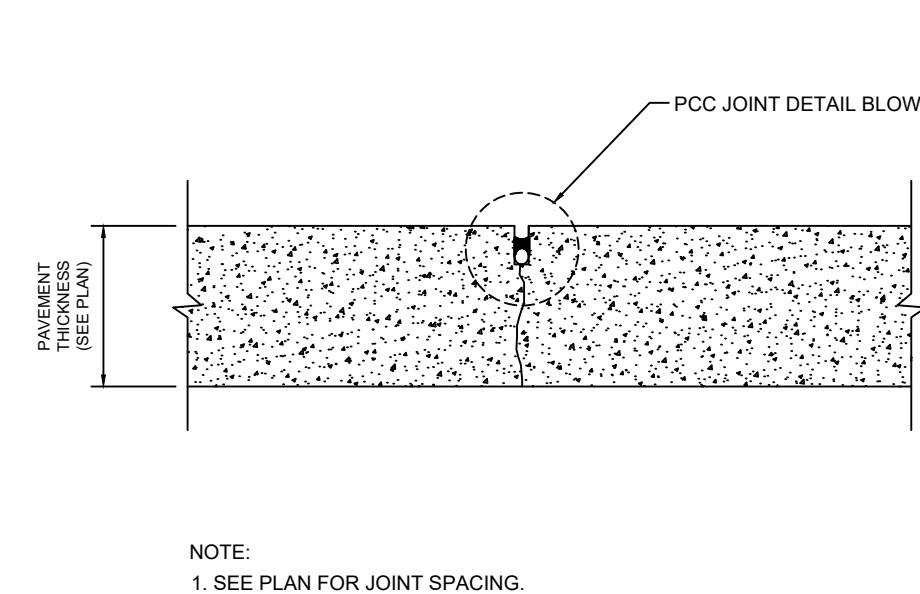
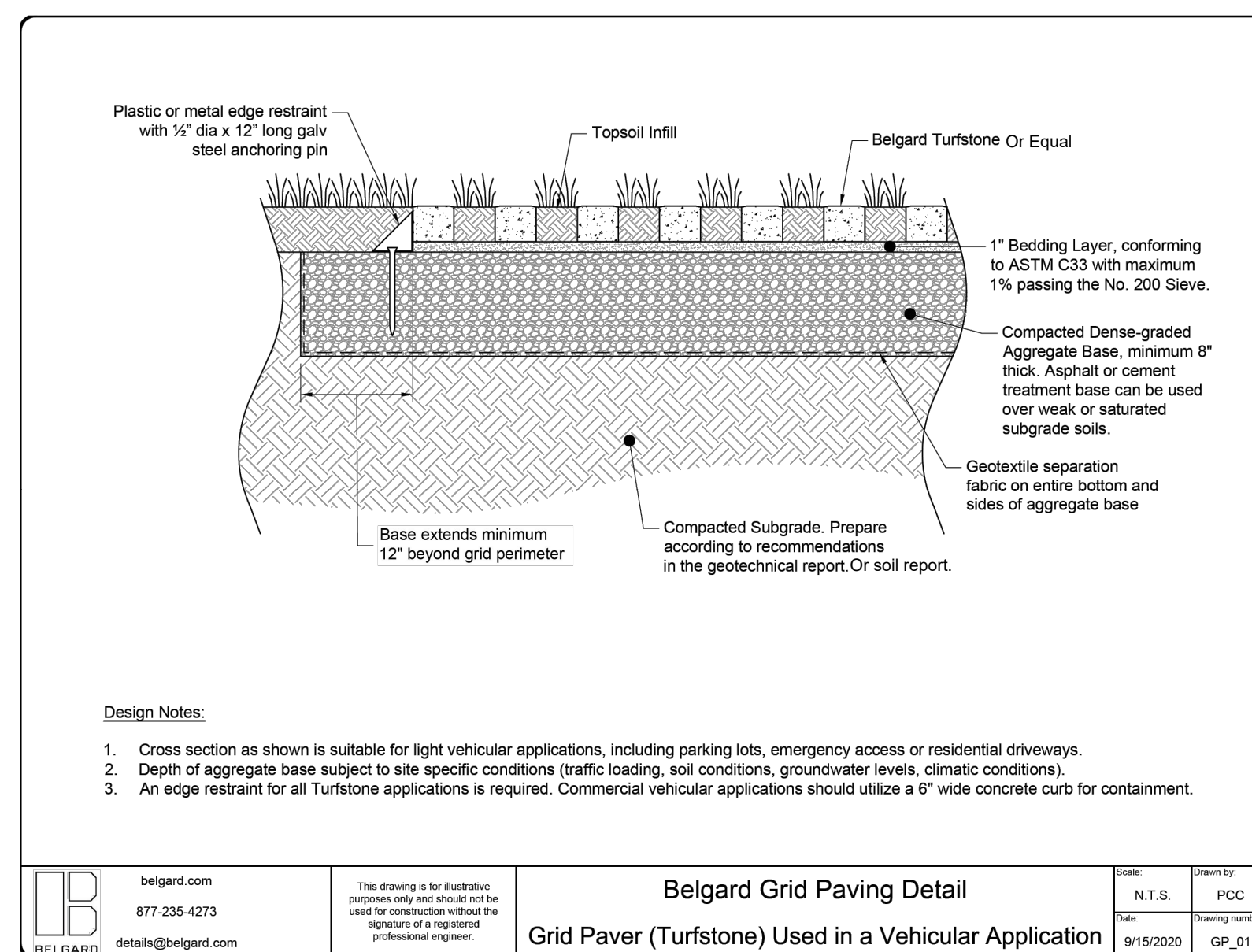
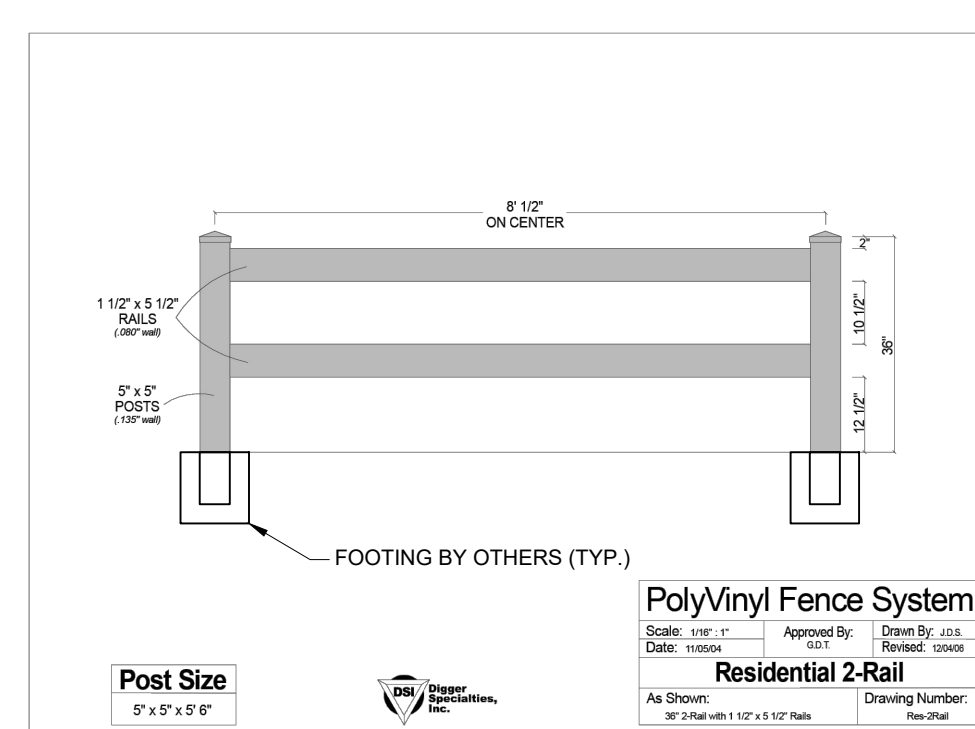
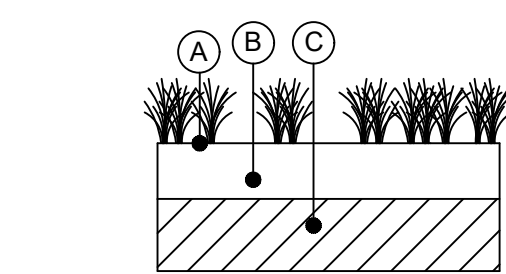
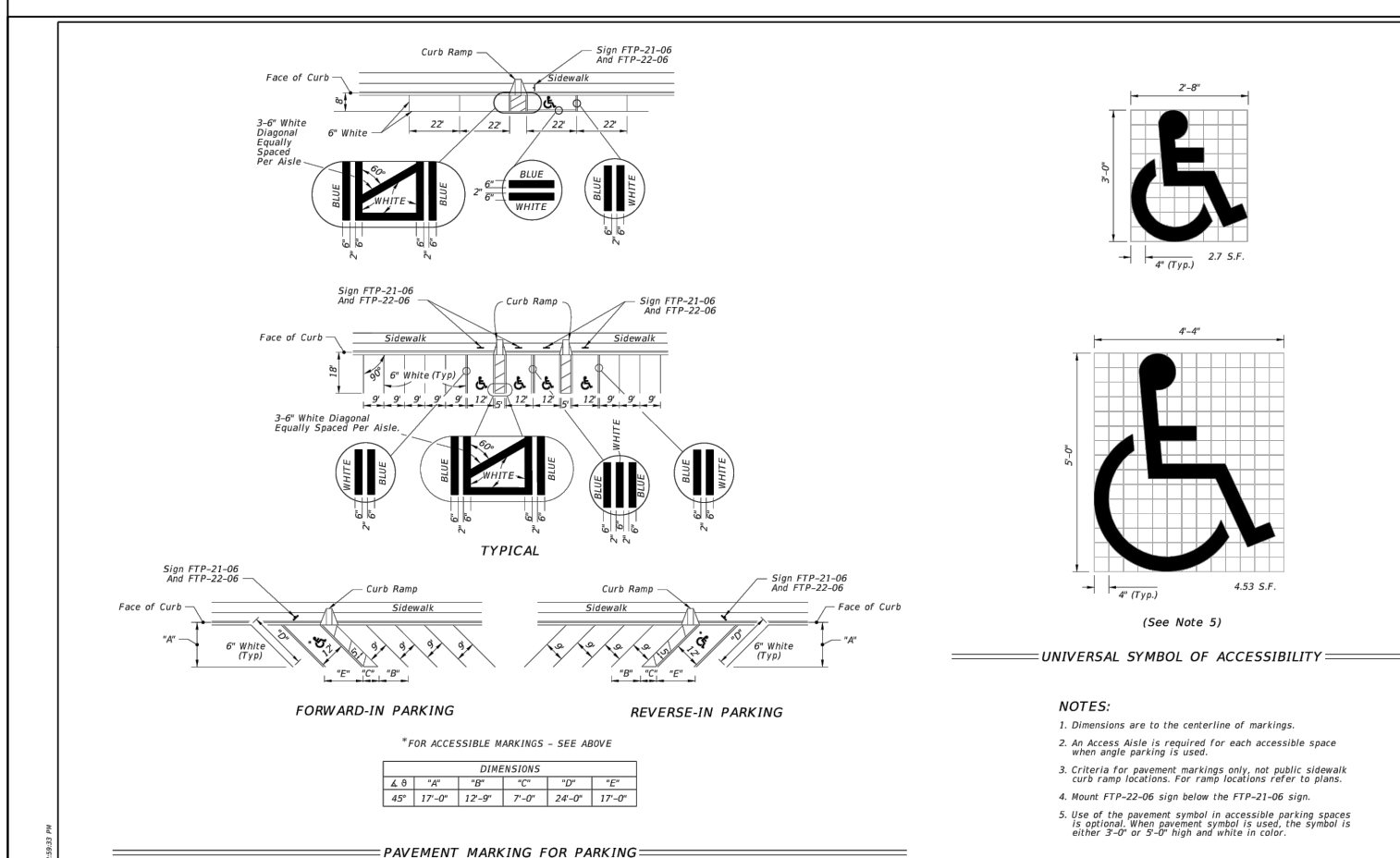
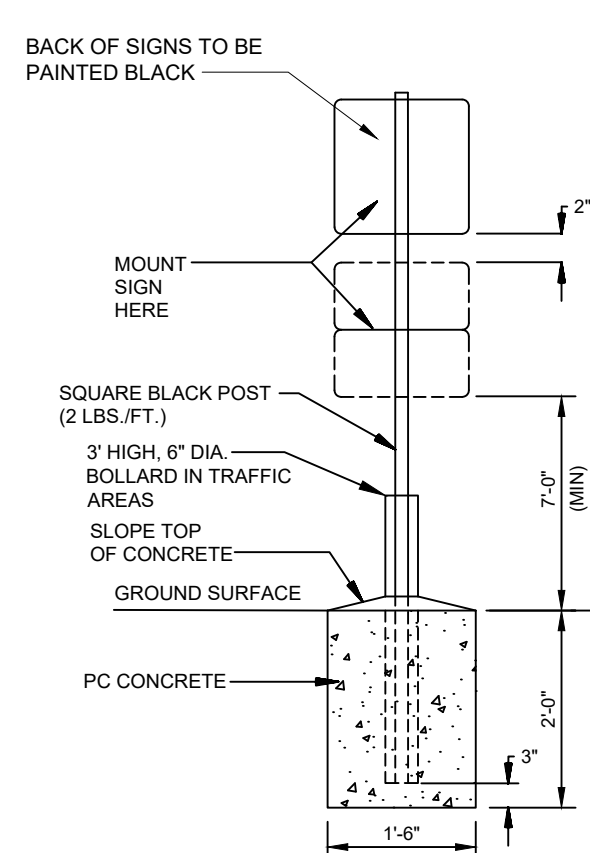
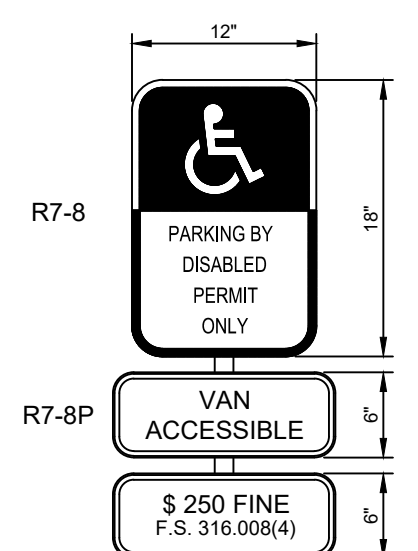
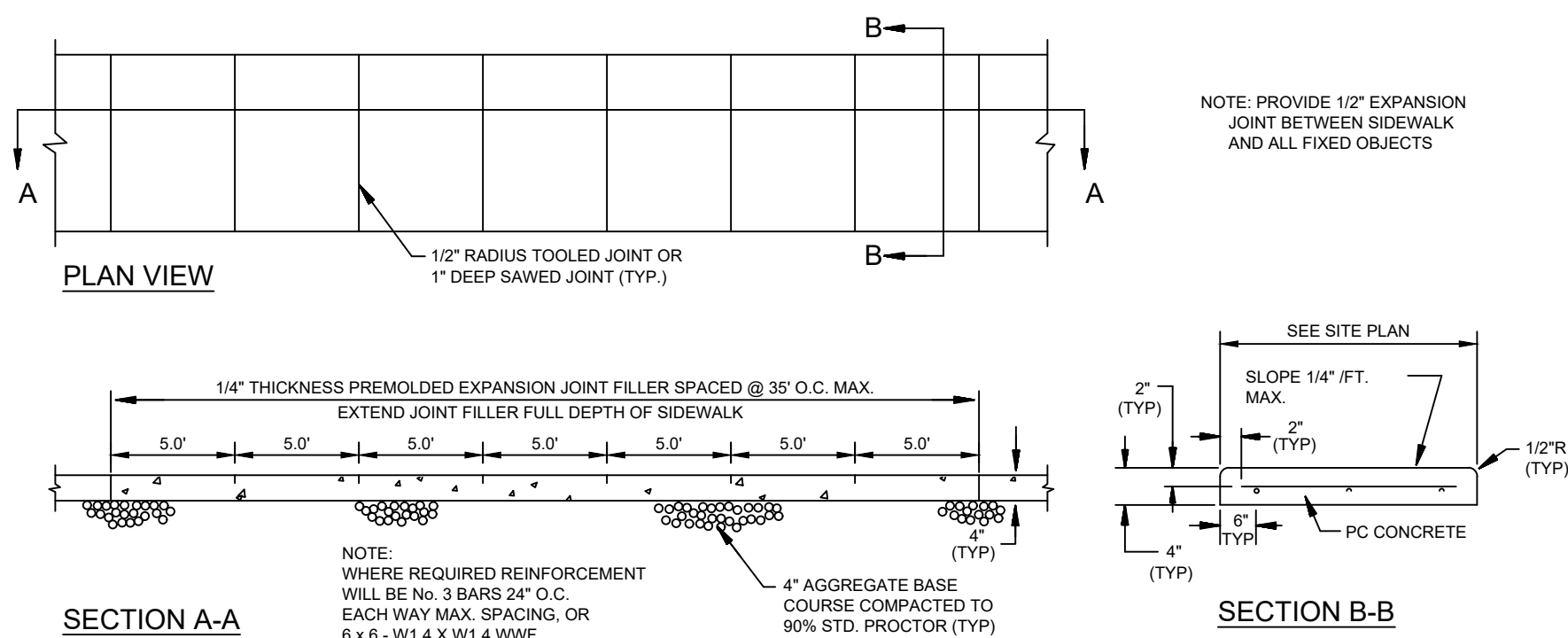
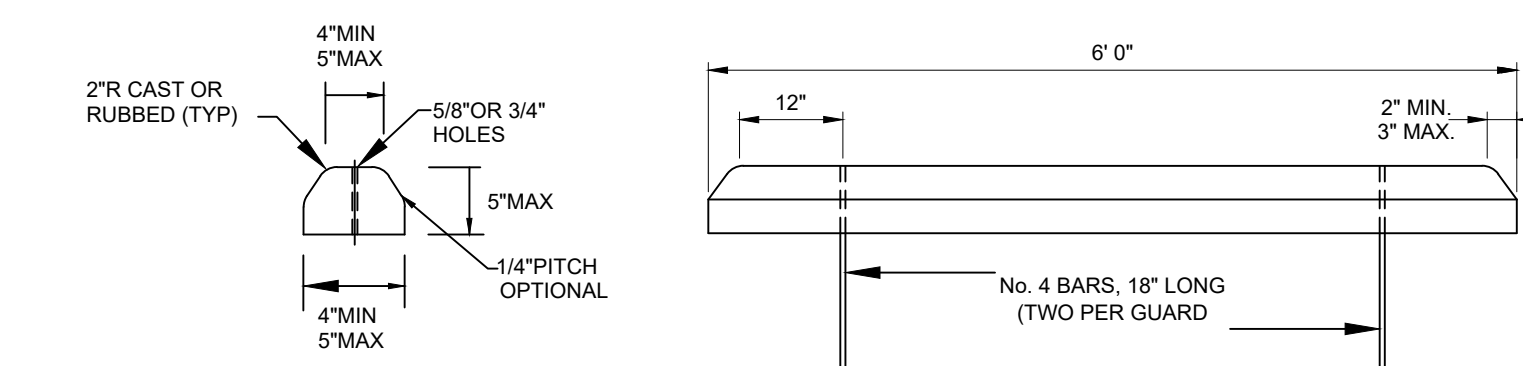
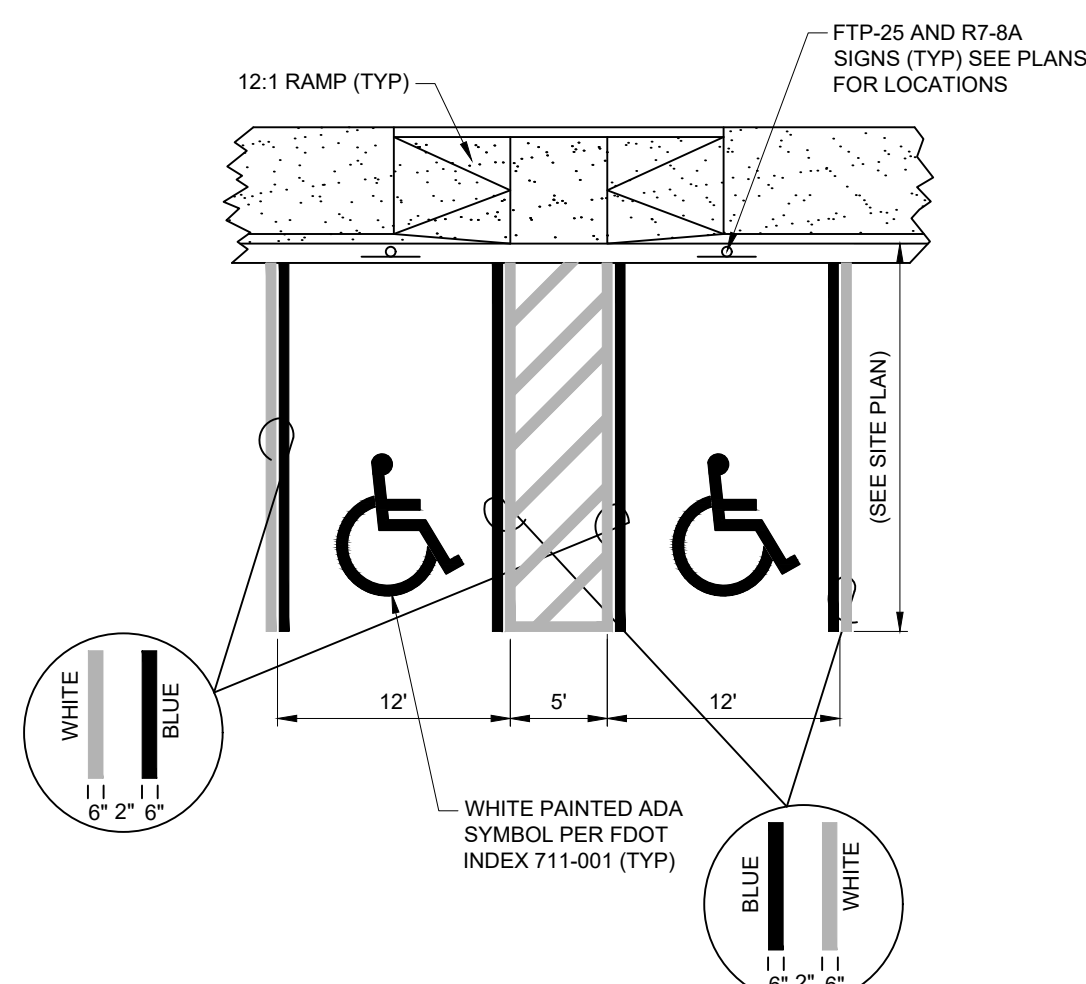
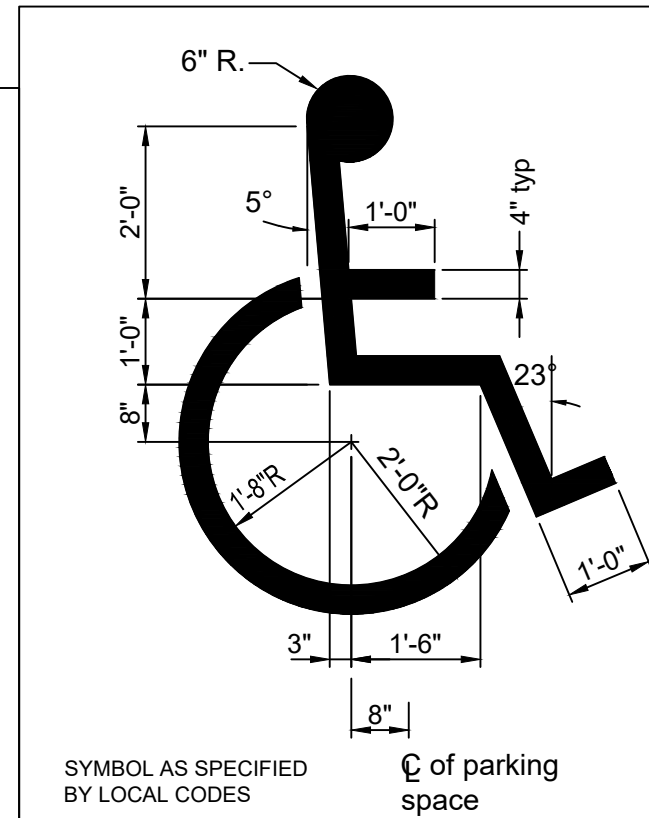
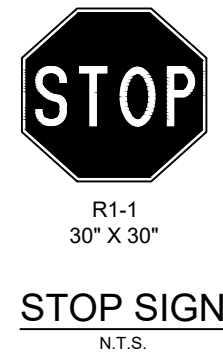
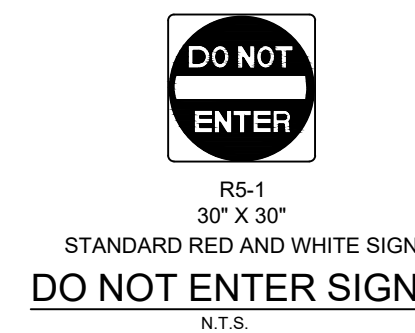
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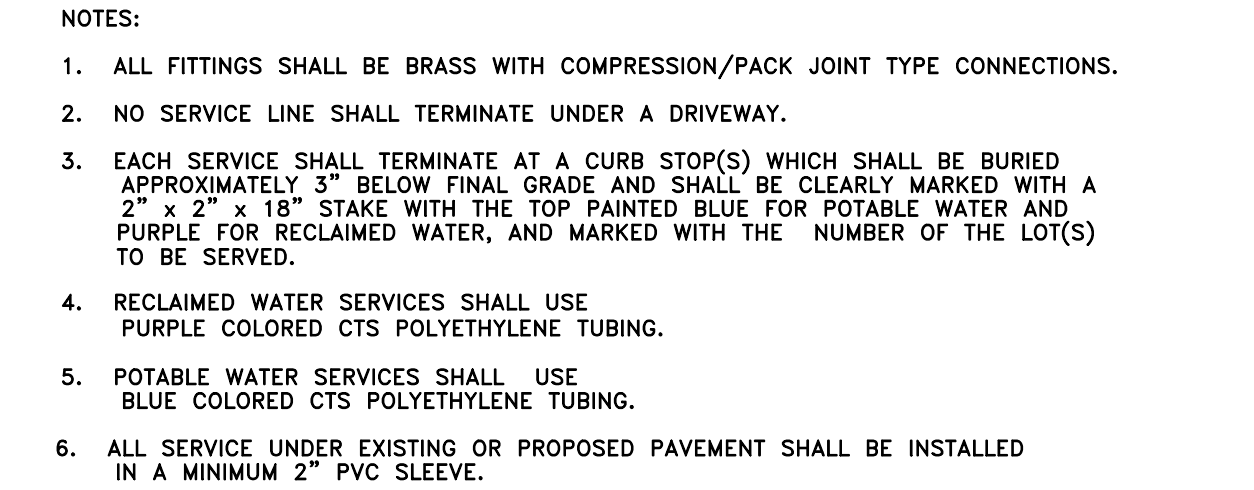
Designed: J. STOCKHAM	
Drawn: A. YOELL	
Checked: J. HUGHES	
Job No.: 2501352	
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UTILITY PLAN
APOPKA NORTHWEST RECREATION CENTER SOCCER FIELDS EXPANSION APOPKA, ORANGE COUNTY, FL

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Sheet No.
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SCHEDULE 40 GALVANIZED PIPE AND FITTINGS OR SCHEDULE 80 PVC PIPE AND FITTINGS

DOUBLE CHECK OR REDUCED PRESSURE DEVICE (NOT REQUIRED WHERE RECLAIMED WATER IS UTILIZED UNLESS CHEMICAL INJECTION IS USED).

UNION

UNION

12" TO 36" ABOVE GRADE

FINISHED GRADE

METER BOX AND LID TO BE FLUSH WITH FINISHED GRADE.

SHUT OFF VALVE

4" TO 6"

CURB

METER

CURB STOP

SERVICE LINE

CORP. STOP

DOUBLE STRAP SADDLE

WATER MAIN

APPLIES ONLY IF IRRIGATION METER HAS SEPARATE TAP TO MAIN.

NOTES:

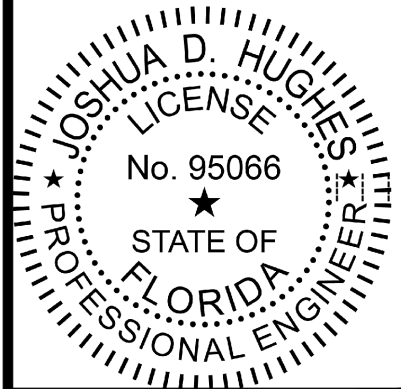
1. A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
2. METER SHALL BE INSTALLED JUST INSIDE THE ROW LINE OR PROPERTY LINE AND IN NO CASE SHALL IT BE INSTALLED IN THE SIDEWALK OR OTHER PAVED AREAS.
3. DOUBLE CHECK VALVES MAY BE USED AS LONG AS THEIR ARE NO CHEMICALS OR A WELL OF SITE.
4. A RVD DEVICE SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD
5. ALL BACKFLOW PREVENTION DEVICES ARE TO BE AWWA APPROVED.



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**APOPKA NORTHWEST RECREATION
CENTER SOCCER FIELDS EXPANSION**
APOPKA, ORANGE COUNTY, FL

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GENERAL NOTES:

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 BOUNDARY SURVEY PROVIDED BY HIGHLAND AND ASSOCIATES SURVEYORS. ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED AT ALL POINTS OF CONNECTION AND AREAS OF INTEREST.
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 AROUND THE SITE. REMOVE OR CAP AS NECESSARY.
3. THE CONTRACTOR SHALL EXERCISE CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SURFING" 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 INSTRUCTIONS/REQUIREMENTS.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ON ALL PRECAST AND MANUFACTURED ITEMS, TO THE OWNER'S ENGINEER FOR APPROVAL. 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 BUILDINGS), UNLESS OTHERWISE NOTED ON PLANS.
8. CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELATIONS (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 IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
 - 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.
 - g. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN "ON-SITE PIPING PERMIT" (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITIES. THIS PERMIT MUST BE OBTAINED BY A DAILY 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.
 - h. 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 REDUCTIONS, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.
 - i. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.
 - j. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
 - k. 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.
 - l. ALL DISTURBED AREAS WITHIN THE ROAD R/W SHALL BE SOODED WITH ARGENTINE BAHIA SOD.
 - m. WHERE APPLICABLE UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN TWELVE (12) LAYERS AND COMPACTED TO NINETY EIGHT PERCENT (98 %) MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 OR T-238.
 - n. ALL DIMENSIONS ARE TO FACE OF CURB.
 - o. ALL CONSTRUCTION SHALL MEET MUNICIPALITY STANDARDS AND SPECIFICATIONS.

10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN "ON-SITE PIPING PERMIT" (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITIES. THIS PERMIT MUST BE OBTAINED BY A DAILY 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.
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15. ALL DISTURBED AREAS WITHIN THE ROAD R/W SHALL BE SOODED WITH ARGENTINE BAHIA SOD.
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17. ALL DIMENSIONS ARE TO FACE OF CURB.
18. ALL CONSTRUCTION SHALL MEET MUNICIPALITY STANDARDS AND SPECIFICATIONS.

19. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDDED, MULCHED, SOODED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.
20. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE. PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOIL TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.
21. 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.
22. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT, COPIES OF WHICH ARE AVAILABLE THROUGH THE OWNER OR SOILS TESTING COMPANY DIRECTLY.
23. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF PROPERTY. TYPE OF FENCE TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR APPROVAL.

24. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDDED, MULCHED, SOODED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.
25. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE. PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOIL TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.
26. 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.
27. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT, COPIES OF WHICH ARE AVAILABLE THROUGH THE OWNER OR SOILS TESTING COMPANY DIRECTLY.
28. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF PROPERTY. TYPE OF FENCE TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR APPROVAL.

AS-BUILT:

UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, CERTIFIED BY A REGISTERED LAND SURVEYOR. THIS PERMIT MUST BE OBTAINED BY A DAILY 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.

CLEARING AND SITE PREPARATION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING AND/OR DEMOLITION. REFER TO THE "EROSION CONTROL NOTES" SECTION CONTAINED HEREIN FOR ADDITIONAL REQUIREMENTS.
2. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDDED, MULCHED, SOODED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.
4. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE. PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOIL TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BE STOCKPILED ON-SITE, AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING ANY EXCESS MATERIAL FROM THE SITE.
5. 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.
6. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT, COPIES OF WHICH ARE AVAILABLE THROUGH THE OWNER OR SOILS TESTING COMPANY DIRECTLY.
7. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF PROPERTY. TYPE OF FENCE TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR APPROVAL.

1. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEEDMENTATION BARRIERS (SILTATION CURTAINS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
2. THE CONTRACTOR SHALL LIMIT THE DISCHARGE OF TURBID WATERS OFF-SITE, OR INTO ON-SITE/OFF-SITE WETLANDS (IF APPLICABLE), TO NO MORE THAN 50 JUTS (JACKSON TURBIDITY UNITS) OR 20 NTU (NEPHELOMETRIC TURBIDITY UNITS), ABOVE BACKGROUND LEVELS.
3. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
4. CONTRACTOR SHALL INSPECT AND MAINTAIN ON A DAILY BASIS ALL EROSION/SEEDMENTATION CONTROL FACILITIES.
5. THE CONTRACTOR SHALL ENSURE THAT SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.
6. STAKED HAY BALES WILL NOT BE UTILIZED FOR EROSION, SEDIMENT AND TURBIDITY CONTROL.

PAVING AND GRADING NOTES:

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUD, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEERS, OR OWNERS SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. 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.
3. 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.
4. PROPOSED SLOP ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.
5. 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.
6. CONTRACTOR SHALL TRIM TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
7. CURBING SHALL BE PLACED AT THE E.D.O.T. OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST 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.
8. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR APPROVAL.
9. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (STRUCTURES, OTHER POURED).
10. ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #17346.
11. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING COMPLETION 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.
12. THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN EXISTING PRIOR TO START OF CONSTRUCTION.
13. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.
14. SURVEY MONUMENTS OR BENCHMARKS, WHICH HAVE TO BE DISTURBED BY THIS WORK, SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR.
15. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.

TESTING AND INSPECTION REQUIREMENTS (PAVING/GRADING):

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. THE VARIOUS AGENCIES AND PERMIT CONDITIONS SHOULD BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID TESTING.

STORM DRAINAGE SYSTEM NOTES:

1. STANDARD INDEXES REFER TO THE LATEST 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 INTERFERED DOD AND FLARED DOD SECTIONS, WHICH ARE NOT INCLUDED IN LENGTHS.
4. ALL DRAINAGE STRUCTURE GRATES AND COVERS, EITHER EXISTING OR PROPOSED SHALL BE TRAFFIC RATED FOR 10-20 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 CONSTRUCTION PERMIT, OR THE START OF INTENDED USE OF THE INFRASTRUCTURE, OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE ENTITY.
6. NON-MUCK GROWN SOD WILL BE UTILIZED FOR STABILIZATION OF THE PROPOSED STORMWATER RETENTION FACILITY. MUCK-GROWN SOD MAY BE USED FOR STABILIZATION OF THE SLOPES OF THE GROUND AND IS NOT RECOMMENDED FOR THE STABILIZATION OF RETENTION POND BOTTOMS.

TESTING AND INSPECTION REQUIREMENTS (DRAINAGE):

1. 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 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
2. 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 FOR THESE PURPOSES.

SANITARY SYSTEM NOTES:

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED TO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSINGS.
2. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS, CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE OR 20 FEET COVERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (I.E. PIPES CENTERED ON THE CROSSING).
3. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE.
4. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHEL, LOCATED MINIMUM 5 FEET FROM THE SEWER MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE, AND WATER AND SEWER JOINTS SHALL BE STAGGERED.
5. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (I.E. STAGGERED JOINTS).
6. ALL PVC PIPE SHALL BE SODD 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.
7. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE NOTED ON PLANS.
8. ALL GRAVITY SEWERS MUST BE SDR 26 PVC, EXCEPT FOR PIPE DEEPER THAN 14 FEET, IN WHICH CASE SDR 26 PIPE SHALL BE USED. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED FOR PVC PIPE, AND SHALL COMPLY WITH ASTM F427, ASTM D3034 & ASTM F429. JOINTS SHALL COMPLY WITH ASTM D3212.
9. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE NOTED ON PLANS.
10. ALL SANITARY MANHOLES SHALL BE LOCATED NO MORE THAN 400 FEET APART AND SHALL CONFORM TO THE DETAILS CONTAINED HEREIN, AS WELL AS WITH ASTM C408.
11. ALL SLOPES FOR GRAVITY SEWER MAINS AND SERVICE CONNECTIONS SHALL COMPLY WITH THE FOLLOWING MINIMUM GRADES: 4" @ 1.00%, 6" @ 1.00%, AND 8" @ 0.40%.
12. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE MUNICIPALITY ENGINEERING STANDARDS MANUAL.
13. 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.

11. SANITARY SEWER MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE MAIN LINE.
12. FORCE MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE WATER MAIN.
13. ON SITE WASTEWATER COLLECTION SYSTEM AND PUMP STATION IS PRIVATELY OWNED AND MAINTAINED.
14. PLUG VALVE TO BE INSTALLED VERTICALLY AND TAPPING VALVE TO BE INSTALLED HORIZONTALLY AND ABANDONED IN THE OPEN POSITION.

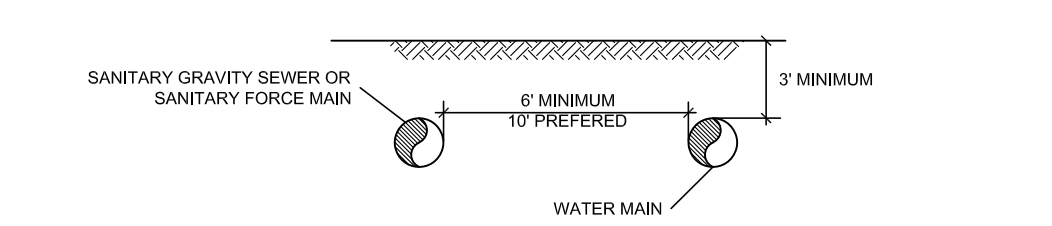
TESTING AND INSPECTION REQUIREMENTS (SANITARY):

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 INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS ASSOCIATED WITH A TELEVIEWED INSPECTION (TV) OF THE PROPOSED GRAVITY SEWER LINE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE TV INSPECTION TAPE 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-900, 18" PVC AND HYDROSTATICALLY TEST IT TO 150 PSI.
 - d. IF THE OTHER LINE IS A RECLAIMED WATER LINE AND THE ABOVE SEPARATION REQUIREMENTS ARE NOT MET, UPGRADE THE RECLAIMED WATER LINE MATERIAL TO DUCTILE IRON OR ENCASED THE PIPE IN CONCRETE.
 - e. DEVIATIONS AND OTHER ALTERNATIVES SHALL BE CONSIDERED ON CASE-BY-CASE BASIS AND MUST RECEIVE SPECIFIC APPROVAL BY D.E.P. PRIOR TO IMPLEMENTATION.
 - f. THERE SHALL BE AT LEAST A SIX (6) FOOT HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER FORCE MAINS WITHOUT EXCEPTION. FIELD PROBLEMS SHALL BE REPORTED TO THE ENGINEER. SPECIAL SOLUTIONS MUST BE ACCEPTED BY D.E.P. PRIOR TO IMPLEMENTATION.
 - g. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORM SEWER STRUCTURE.
5. CONTRACTOR TO INSPECT & TEST MANHOLE FOR WATER TIGHTNESS 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.

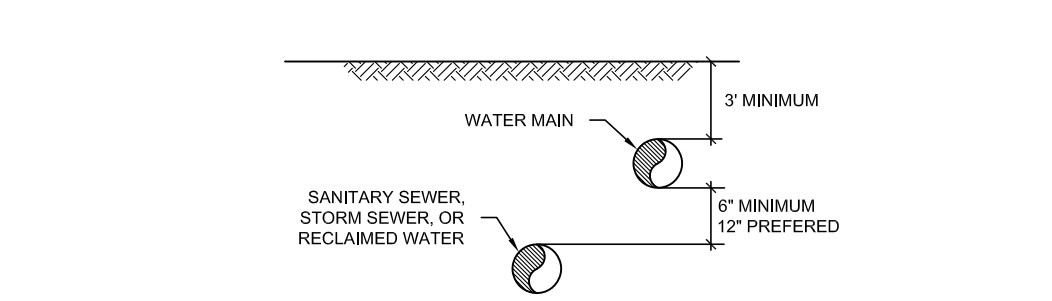
4. CONTRACTOR TO PERFORM APPROPRIATE DETECTION TESTS FOR ALL FLEXIBLE PIPE. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
 - a. NO PIPE SHALL EXCEED A DEFLECTION OF SIX (6) INCHES.
 - b. USING A RIGID SHAFT OR MANHOLE FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 50% 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 WATER TIGHTNESS 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.

WATER SYSTEM NOTES:



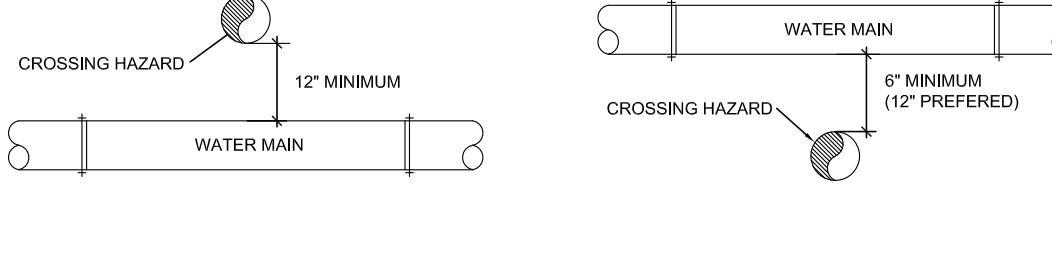
1. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET [TEN (10) FEET PREFERRED] OUTSIDE TO OUTSIDE SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY GRAVITY SEWER OR SANITARY FORCE MAINS.
2. A MINIMUM HORIZONTAL SEPARATION OF THREE (3) FEET OUTSIDE TO OUTSIDE SHALL BE MAINTAINED BETWEEN WATER MAINS AND STORM SEWERS OR RECLAIMED WATER LINES CARRYING UNRESTRICTED PUBLIC ACCESS REUSE WATER.



3. IN AREAS WHERE IT IS NOT PRACTICAL TO MAINTAIN THE REQUIRED SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHEL LOCATED ON ONE SIDE OF THE SANITARY GRAVITY SEWER, STORM SEWER OR RECLAIMED WATER LINE AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE OTHER LINE.

4. IF THE MINIMUM ALLOWABLE SIX (6) FOOT HORIZONTAL SEPARATION OR SIX (6) INCHES VERTICAL SEPARATION IN A SEPARATE TRENCH CANNOT BE MAINTAINED, UPGRADE THE WATER MAIN TO DUCTILE IRON IF THE OTHER LINE IS A STORM SEWER.
5. IF THE NON-CONFORMING LINE IS A GRAVITY SANITARY SEWER, AND SIX (6) FOOT HORIZONTAL SEPARATION OR SIX (6) INCHES VERTICAL SEPARATION IN A SEPARATE TRENCH CANNOT BE MAINTAINED, UPGRADE THE GRAVITY SANITARY SEWER (IF BEING NEWLY INSTALLED) TO AWWA C-900, 18" D.I.P. PVC AND HYDROSTATICALLY TEST IT TO 150 PSI.
6. IF THE OTHER LINE IS A RECLAIMED WATER LINE AND THE ABOVE SEPARATION REQUIREMENTS ARE NOT MET, UPGRADE THE RECLAIMED WATER LINE MATERIAL TO DUCTILE IRON OR ENCASED THE PIPE IN CONCRETE.
7. DEVIATIONS AND OTHER ALTERNATIVES SHALL BE CONSIDERED ON CASE-BY-CASE BASIS AND MUST RECEIVE SPECIFIC APPROVAL BY D.E.P. PRIOR TO IMPLEMENTATION.
8. THERE SHALL BE AT LEAST A SIX (6) FOOT HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER FORCE MAINS WITHOUT EXCEPTION. FIELD PROBLEMS SHALL BE REPORTED TO THE ENGINEER. SPECIAL SOLUTIONS MUST BE ACCEPTED BY D.E.P. PRIOR TO IMPLEMENTATION.
9. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORM SEWER STRUCTURE.

5. CONTRACTOR TO INSPECT & TEST MANHOLE FOR WATER TIGHTNESS 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.



10. A MINIMUM OF VERTICAL SEPARATION OF SIX (6) INCHES [TWELVE (12) INCHES PREFERRED] OUTSIDE TO OUTSIDE SHALL BE MAINTAINED BETWEEN WATER MAIN, SANITARY GRAVITY SEWER, STORM SEWER OR RECLAIMED WATER LINES.

- THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TWELVE (12) FEET BETWEEN ANY TWO JOINTS. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 12 FEET BETWEEN ANY TWO (2) JOINTS IN LIEU OF DIP. THE SANITARY SEWER MAY BE PLACED IN A SLEEVE OR 20 FEET COVERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. TWELVE (12) FEET BETWEEN JOINTS CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET COVERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

- ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (I.E. PIPES CENTERED ON THE CROSSING).

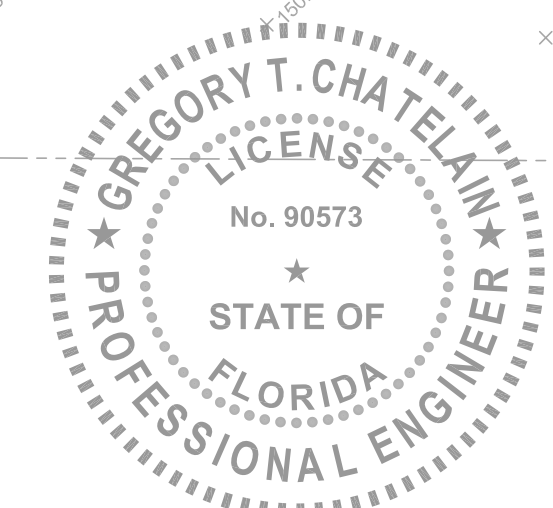
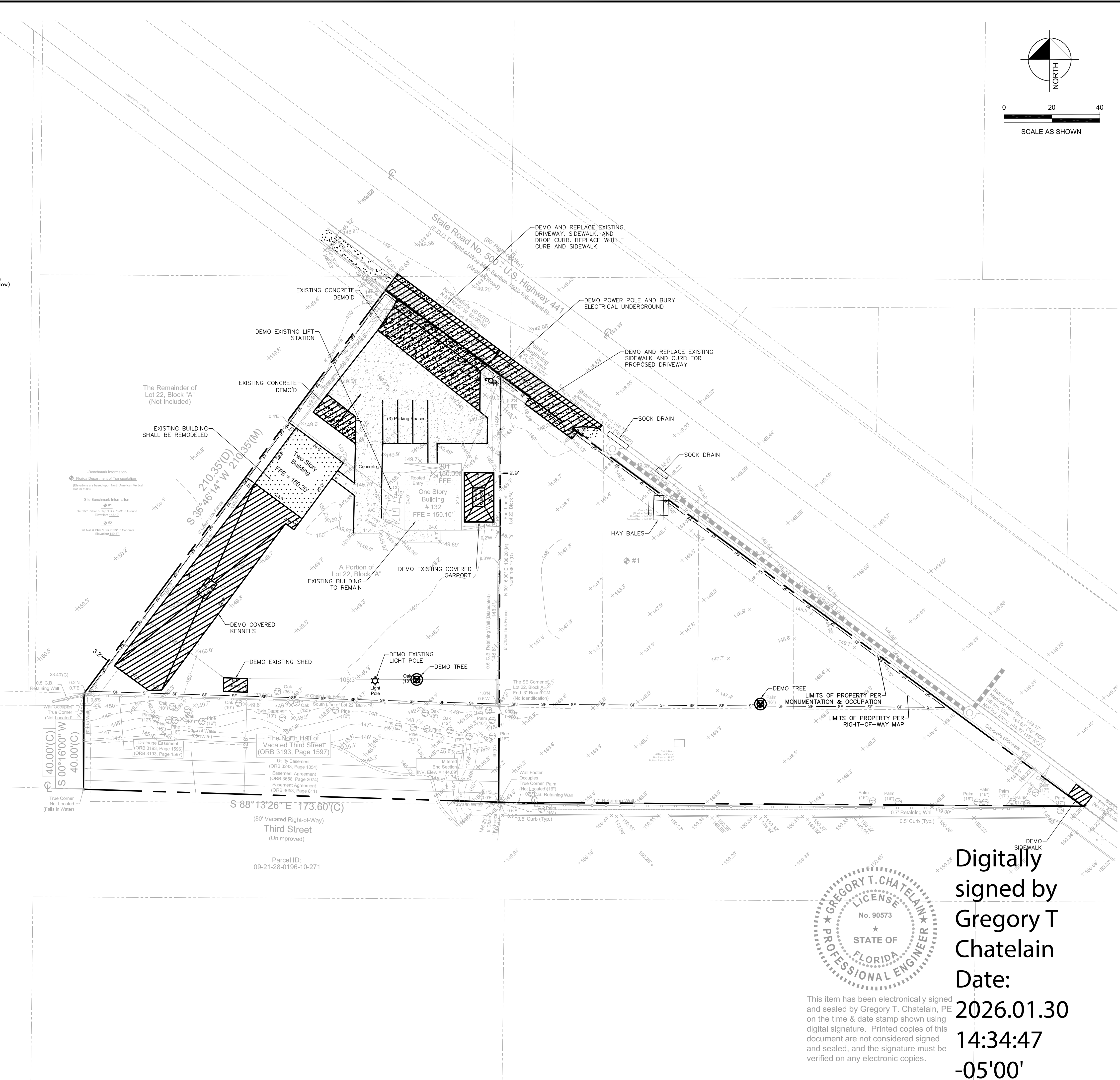
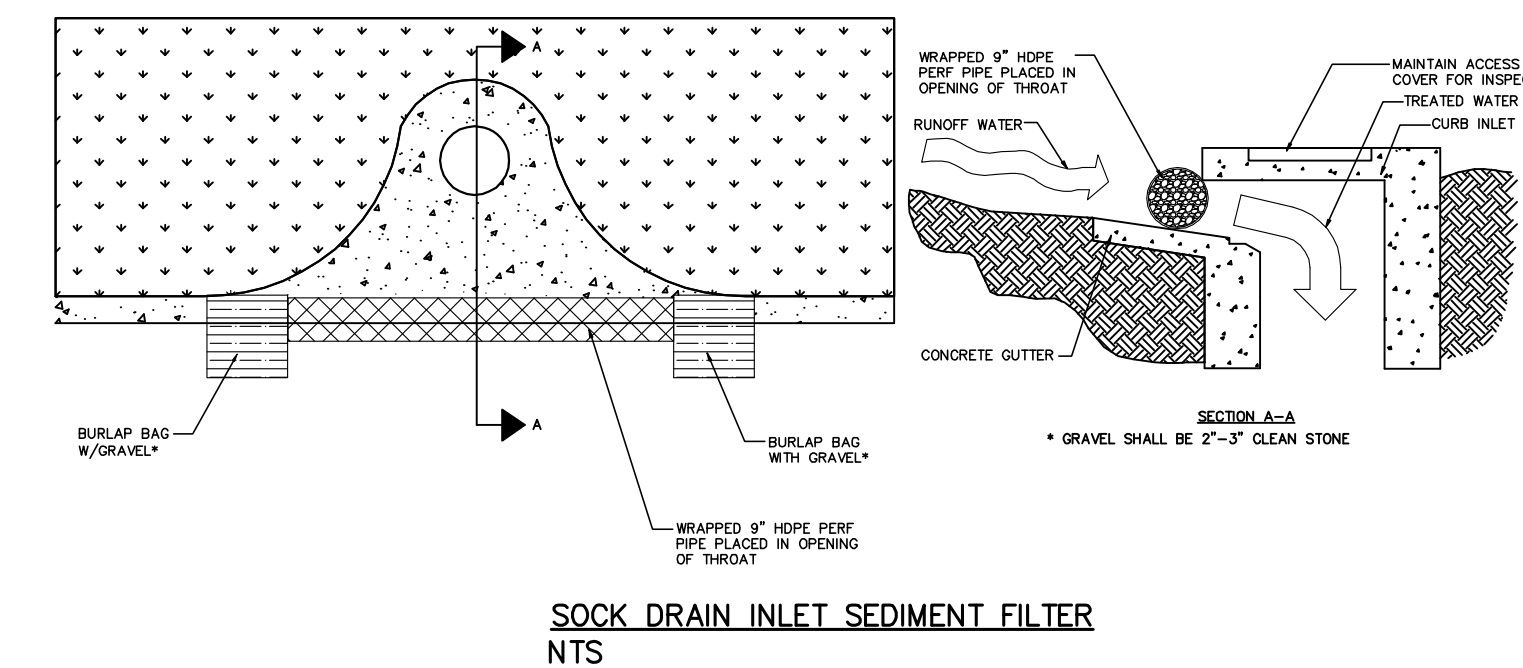
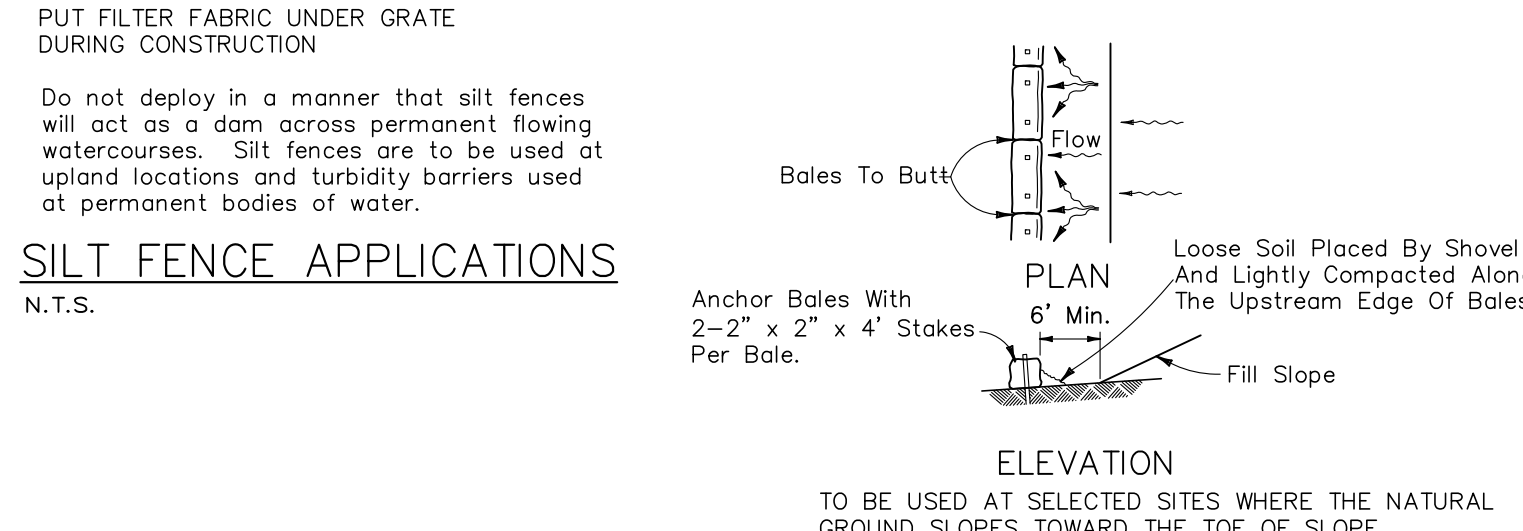
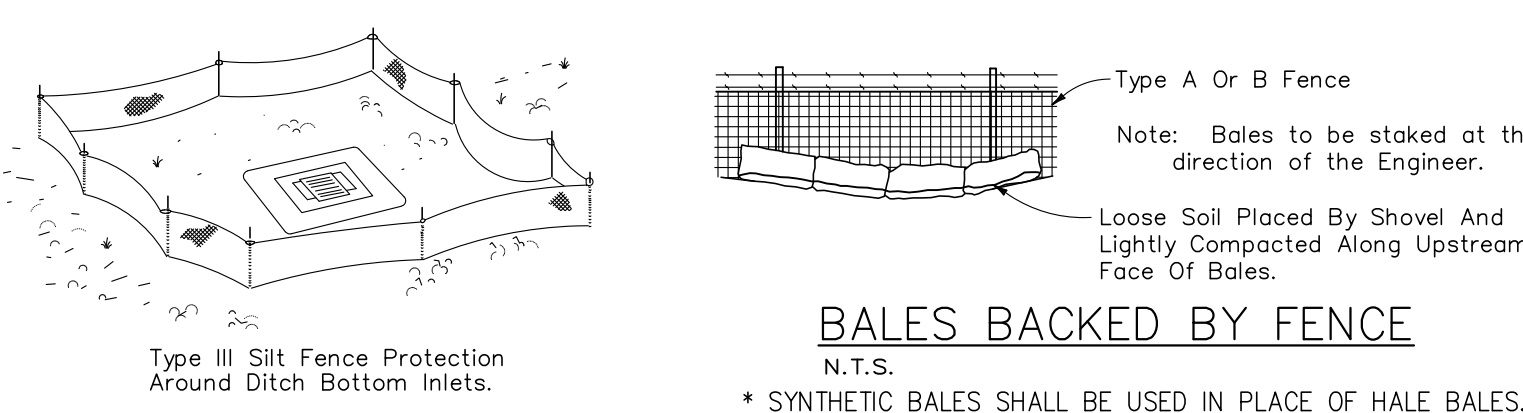
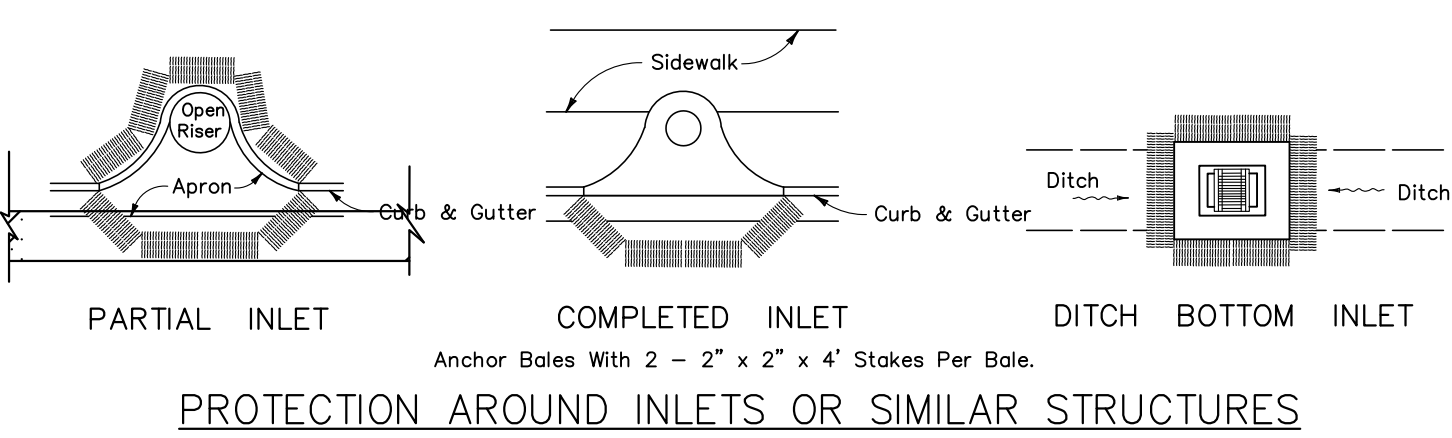
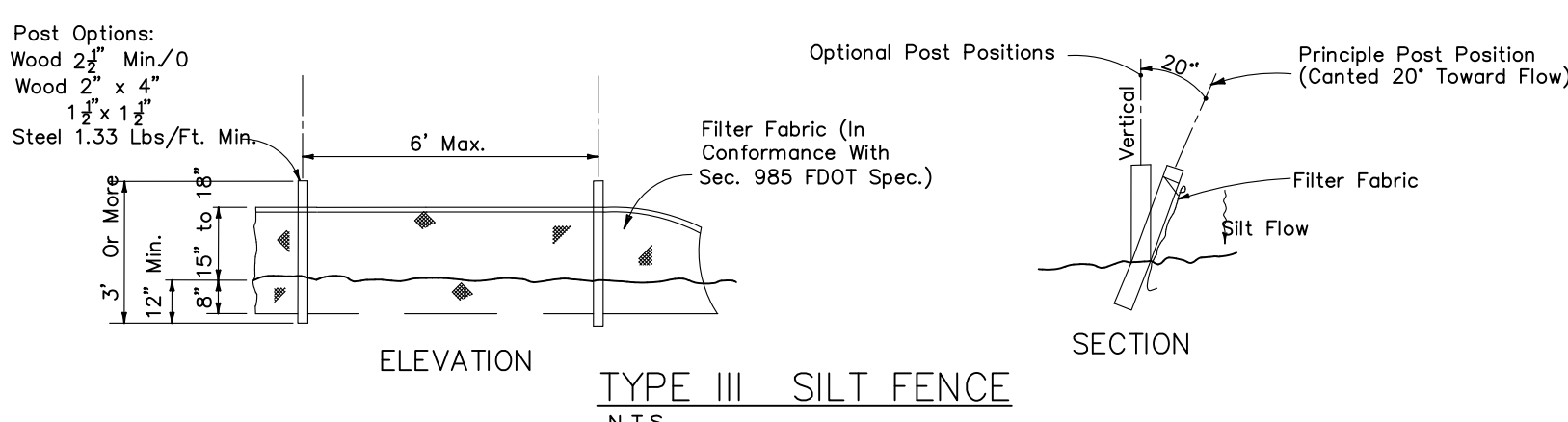
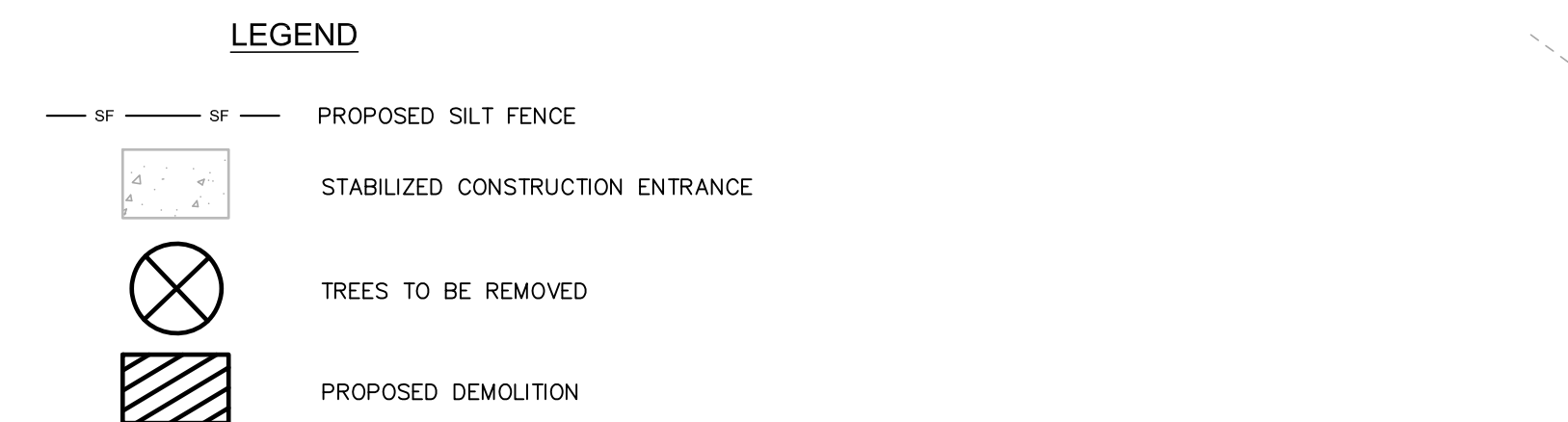
11. WHEN THERE IS LESS THAN 6" VERTICAL CLEARANCE BETWEEN THE WATER MAIN AND STORM SEWER, THE WATER MAIN SHALL BE UPGRADED TO DUCTILE IRON. ONE END LENGTH OF PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
12. IF THE NON-CONFORMING LINE IS A SANITARY GRAVITY SEWER WHERE THERE IS LESS THAN SIX (6) INCHES VERTICAL CLEARANCE FROM THE WATER MAIN, UPGRADE THE SANITARY GRAVITY SEWER TO AWWA C-900, 18" D.I.P. PVC AND HYDROSTATICALLY TEST IT TO 150 PSI. PIPE SHALL BE LOCATED SO THAT JOINTS ARE AS FAR AS POSSIBLE FROM EACH OTHER.
13. IF THE OTHER LINE IS A RECLAIMED WATER LINE AND THE ABOVE MINIMUM SEPARATION IS NOT MET, UPGRADE THE RECLAIMED WATER LINE MATERIAL TO DUCTILE IRON OR ENCASED THE PIPE IN CONCRETE.
14. SPECIAL STRUCTURAL SUPPORT OR CONCRETE SADDLES MAY BE NECESSARY AT THE CROSSING LOCATION.

15. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE CROSSING HAZARD. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM VERTICAL SEPARATION IS TWELVE (12) INCHES.
16. DEVIATIONS AND OTHER ALTERNATIVES SHALL BE CONSIDERED ON CASE- BY-CASE BASIS AND MUST RECEIVE SPECIFIC APPROVAL BY D.E.P. PRIOR TO IMPLEMENTATION.
17. THERE SHALL BE A SIX (6) INCH VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER FORCE MAINS AT CROSSINGS WITHOUT EXCEPTION. CONFLICTS SHALL BE REPORTED TO THE ENGINEER. SPECIAL SOLUTIONS MUST BE ACCEPTED BY D.E.P. PRIOR TO IMPLEMENTATION.
18. ALL DIP PIPE SHALL BE CLASS 50 OR HIGHER. REFER TO NOTE #24 BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED.
19. ALL WATER MAIN PIPE FITTINGS AND APPURTENANCES SHALL DUCTILE IRON AND BE INSTALLED TO COMPLY WITH MUNICIPALITY STANDARDS AND SPECIFICATIONS.
20. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36 INCHES OF COVER.
21. ALL WATER SERVICE LINES, VALVES AND METERS SHALL BE INSTALLED TO COMPLY WITH APPLICABLE MUNICIPALITY/AGENCY DEPARTMENT STANDARDS AND SPECIFICATIONS.
22. ALL DUCTILE IRON PIPE, 4" TO 24", SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C105/A21.51. PIPE SHALL BE FURNISHED IN 18 OR 20 FOOT SECTIONS. PIPE THICKNESS SHALL BE CLASS 50, UNLESS OTHERWISE SPECIFIED.
23. ALL WATER SYSTEM CONSTRUCTION, UP TO AND INCLUDING POINT OF METERING AND BACK FLOW PREVENTION (IF REQUIRED), SHALL BE BUILT ACCORDING TO THE PREVIOUSLY REFERENCED STANDARDS AND SPECIFICATIONS.
24. FIRE HYDRANTS SHALL BE OF A TYPE OR STYLE THAT COMPLY WITH THE REQUIREMENTS OF THE WATER UTILITY THAT SUPPLIES THE SERVICE. PRIVATE HYDRANTS SHALL ALSO COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARD NFPA 24, PRIVATE FIRE DEPARTMENT MAINS AND THEIR APPURTENANCES.
25. ALL HYDRANTS SHALL MEET THE CRITERIA SET FORTH BY MUNICIPALITY

26. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S), TO ASSURE ADEQUATE FLUSHING AND DISINFECTION/CHLORINATION.
27. 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 MUNICIPALITY WATER DEPARTMENT INSPECTOR.
28. ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C851 AND MUNICIPALITY WATER DEPARTMENT SPECIFICATIONS.
29. ALL PVC WATER MAIN, 4" TO 8" DIAMETER PIPING, SHALL CONFORM TO ASTM D2241 AND ASTM 1784. PIPE SHALL BE AWWA C-900, 18"-18" JOINTS SHALL BE RUBBER GASKETED PUSH-ON CONFORMING TO ASTM D1869. FOR PIPES LESS THAN 4", THEY SHALL MEET THE REQUIREMENTS OF SECTION 50.5.1 OF THE CITY'S STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION
30. ALL POLYVINYL CHLORIDE PIPE SHALL BE LAID WITH AN INSULATED 12 GAUGE A.W.G. SOD STRAND COPPER WIRE WOUND AROUND THE PIPE FORMING A SOD OF PIPE. THE SOD SHALL BE CONTINUED TO ALL VALVES, TEES AND ELBOWS.
31. 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.
32. FIRE PROTECTION SHALL MEET ALL THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY.
33. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WASTEWATER FORCE MAINS AND GRAVITY SEWERS. FORCE MAIN AND SEWER LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING.
34. THE MUNICIPALITY DISPATCH OPERATOR SHALL BE NOTIFIED OF ANY BREAK OR DAMAGE TO THE GRAVITY SEWER OR WATER MAIN.
35. ALL DAMAGE TO MUNICIPALITY'S MAINS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY THE MUNICIPALITY UTILITIES INSPECTOR, MUNICIPALITY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR REPAIRS.
36. MUNICIPALITY UTILITIES GENERAL TELEPHONE NUMBER: MUNICIPALITY UTILITIES (656-4110)
37. THE MUNICIPALITY UTILITIES CONSTRUCTION SECTION SHALL BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY.
38. THE MUNICIPALITY WATER DIVISION AND THE MUNICIPALITY WASTEWATER DIVISION SHALL BE NOTIFIED AT LEAST (7) DAYS IN ADVANCE TO SCHEDULE MAIN TIE-INS AND PIPE OPERATIONS.
39. OPERATION OF MUNICIPALITY VALVES WATER, WASTEWATER, AND REUSE VALVES ARE TO BE OPERATED ONLY BY MUNICIPALITY UTILITIES INSPECTOR. ALL VALVES BEING INSTALLED ARE TO REMAIN CLOSED DURING CONSTRUCTION.
40. THE CONTRACTOR SHALL COORDINATE ALL PUMP STATION OPERATION AND SHUT DOWN WITH AN MUNICIPALITY UTILITIES INSPECTOR.
41. N/A
42. ON-SITE WATER DISTRIBUTION SYSTEM IS PRIVATELY OWNED AND MAINTAINED.

WATER SYSTEM NOTES CONTINUED:

43. WHERE APPLICABLE UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN TWELVE (12) LAYERS AND COMPACTED TO NINETY EIGHT PERCENT (98%) MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.</



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Gregory T Chatelain
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DESIGNED BY	CC	SCALE	NOTED	DESIGNED BY	CC	DESIGN ENGINEER:	GREGORY T. CHATELAIN, P.E.	FLORIDA REGISTRATION NUMBER:	90573	SEAL	NO.	REVISIONS	DATE	BY
DRAWN BY	CC			CHECKED BY	GTC									
APOPKA VET CLINIC 132 & 124 W. MAIN STREET APOPKA, FL 32703 ORANGE COUNTY FLORIDA														
PROJECT NO. 33-100-25 SHEET NUMBER C03														

SITE DATA:

PARCEL ID: 09-21-28-0196-10-221
09-21-28-6778-00-090
SITE AREA: 47,230 SF (1.08 ACRES)
CURRENT ZONING COMMERCIAL (MU-D)
PROPOSED ZONING COMMERCIAL (MU-D)
BUILDING SETBACK COMMERCIAL
FRONT = 10 FEET (FACING US 441)
SIDE = 5 FEET
REAR = 10 FEET

LANDSCAPE BUFFER:
FRONT = 10 FEET
SIDE = 5 FEET
REAR = 5 FEET

BUILDING INFORMATION:
BUILDING#1 576 SF

BUILDING#2
FIRST FL 2983 SF
SECOND FL 679 SF

TOTAL SF = 4238 SF

FAR ALLOWED: = 2.0

FAR PROPOSED: = 0.1

PARKING REQUIREMENTS:

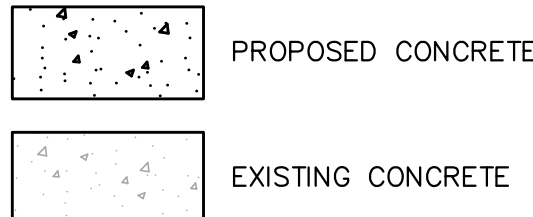
2 SPACES / 1000SF FOR VET CLINIC

4238 SF X 2 SPACE / EVERY 1000 SF OFFICE=9
TOTAL SPACES REQUIRED = 9

PARKING PROVIDED:

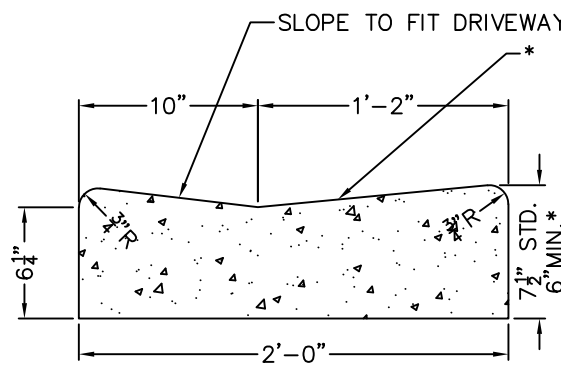
17 SPACES @ 10'X18' (REGULAR)
1 SPACES @ 12'X18' (HANDICAP)
18 SPACES TOTAL

LEGEND



NOTES:

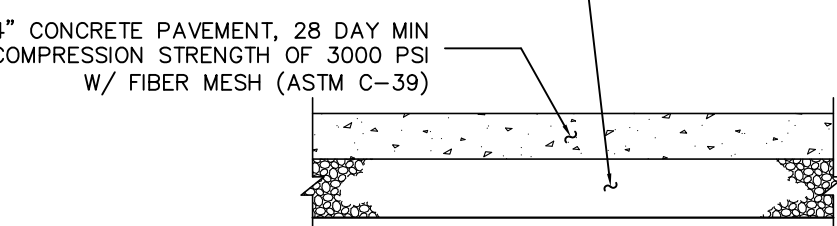
1. PROPOSED ROLL OUT CANS FOR SOLID WASTE



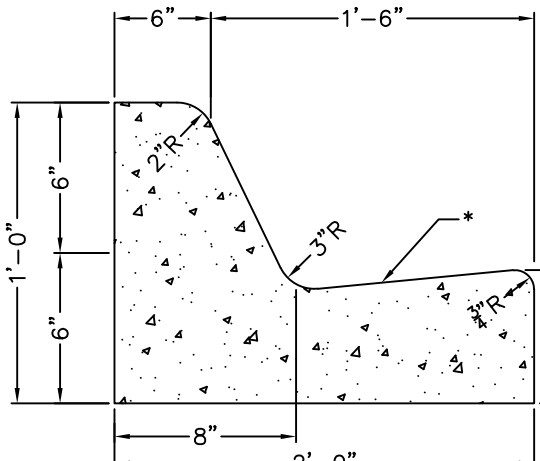
*WHEN USED ON HIGH SIDE OF ROADWAYS,
THE CROSS SLOPE OF THE GUTTER SHALL
MATCH THE CROSS SLOPE OF THE
ADJACENT PAVEMENT. THE THICKNESS OF
THE LIP SHALL BE 6", UNLESS OTHERWISE
SHOWN ON PLANS.

FDOT DROP CURB
N.T.S.

12" LIFTS COMPACTED SUBGRADE
MIN. 98% OF MAX. DENSITY



CONCRETE SIDEWALK DETAIL ON SITE
N.T.S.



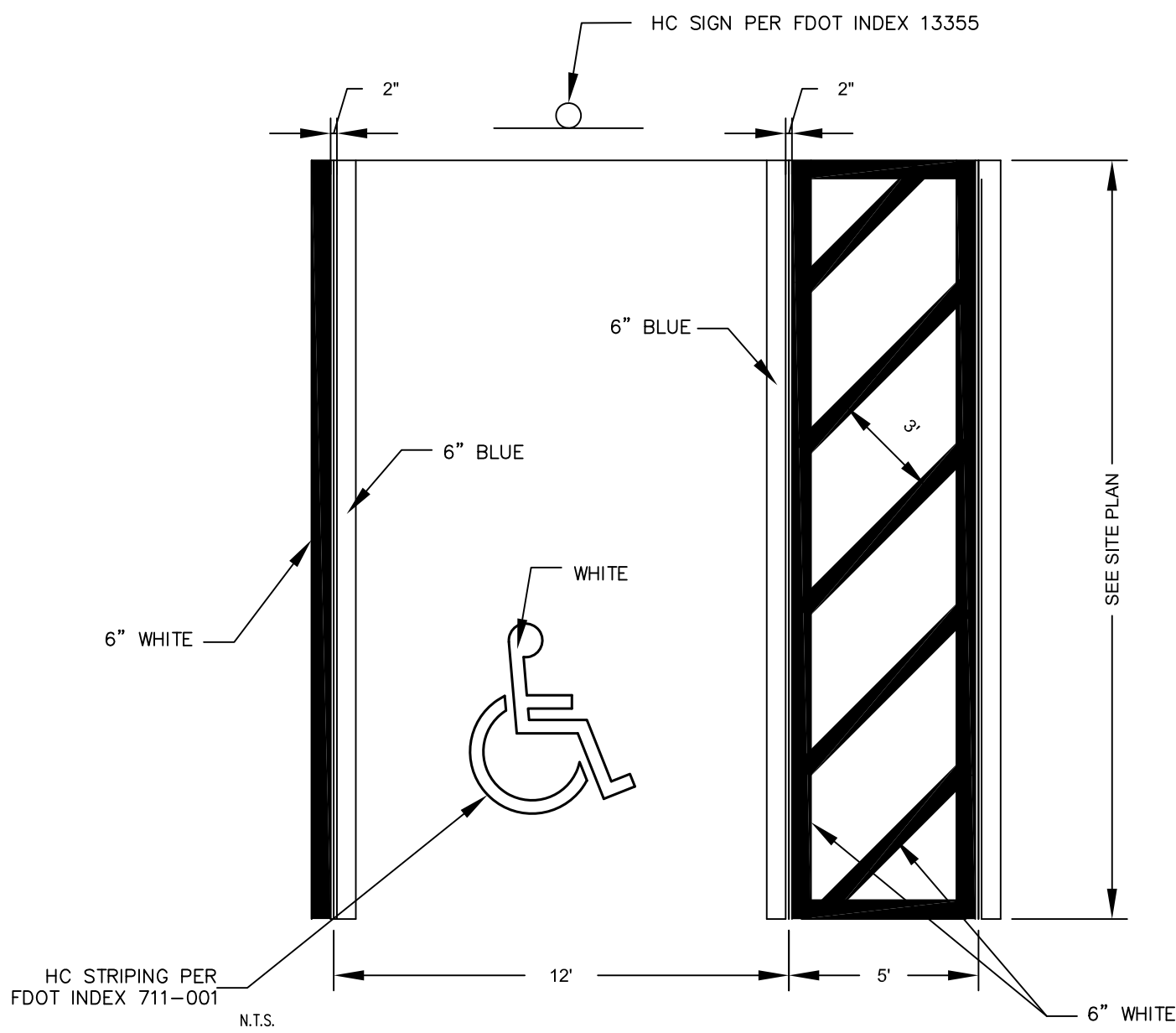
*WHEN USED ON HIGH SIDE OF ROADWAYS,
THE CROSS SLOPE OF THE GUTTER SHALL
MATCH THE CROSS SLOPE OF THE
ADJACENT PAVEMENT. THE THICKNESS OF
THE LIP SHALL BE 6", UNLESS OTHERWISE
SHOWN ON PLANS.

TYPE F CURB
N.T.S.

HANDICAP SIGN DETAIL

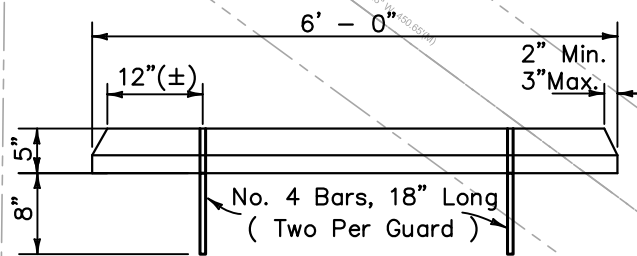
NOTE:

1. ALL LETTERS ARE 1" SERIES "C" PER MUTCD.
2. TOP PORTION OF SIGN SHALL HAVE (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND AND BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH WHITE OPAQUE LEGEND AND BORDER.
4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
5. ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
6. INSTALLATION HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



HANDICAP PARKING PAVEMENT MARKING
N.T.S.

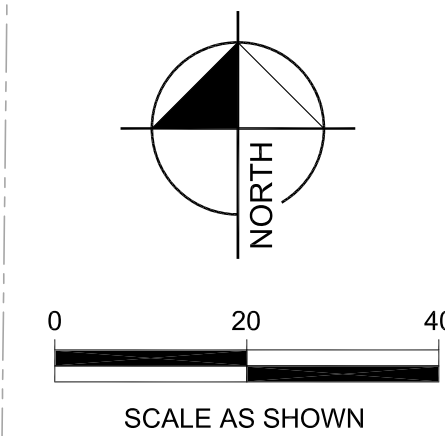
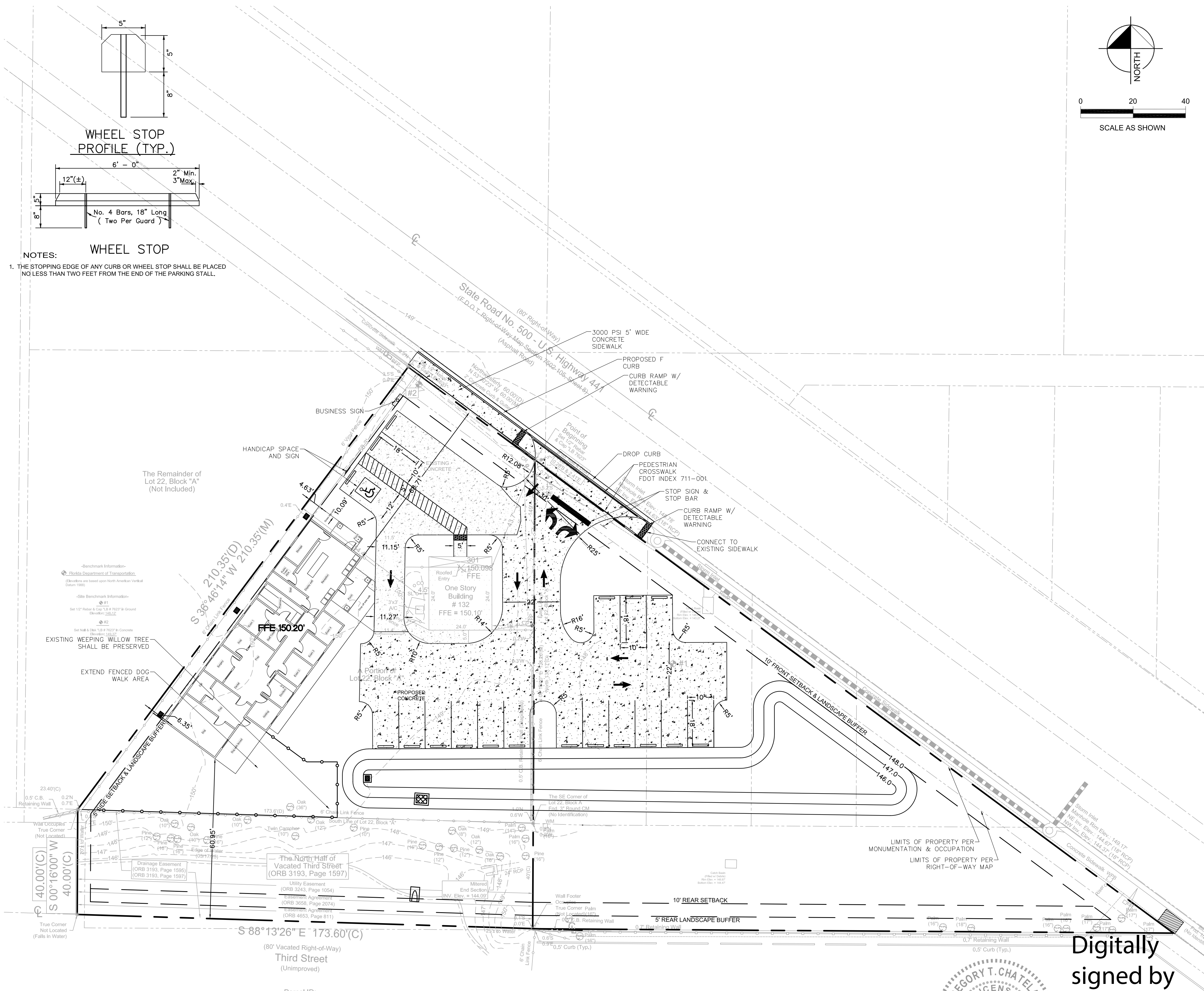
WHEEL STOP
PROFILE (TYP.)



WHEEL STOP

NOTES:

1. THE STOPPING EDGE OF ANY CURB OR WHEEL STOP SHALL BE PLACED
NO LESS THAN TWO FEET FROM THE END OF THE PARKING STALL.



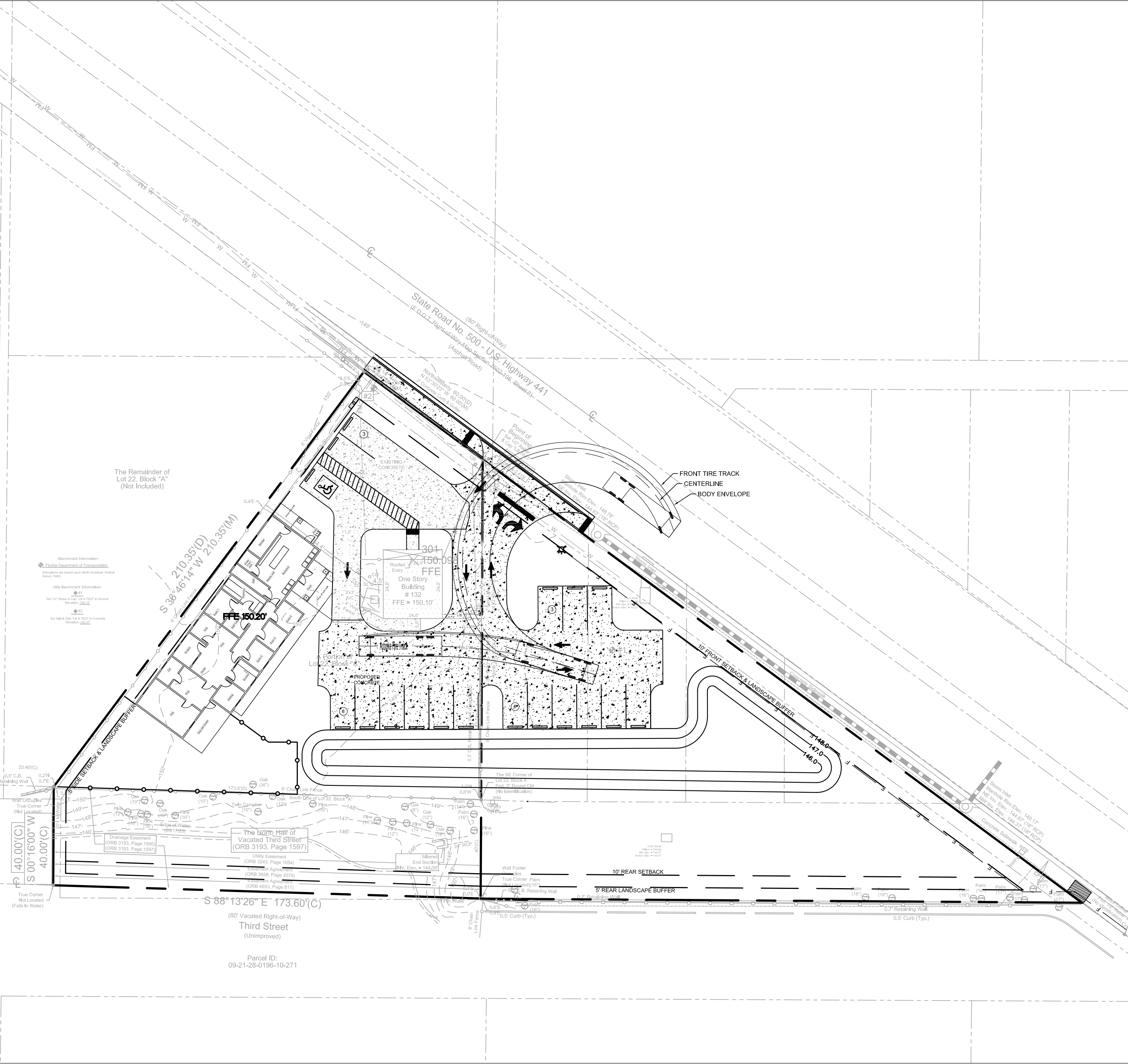
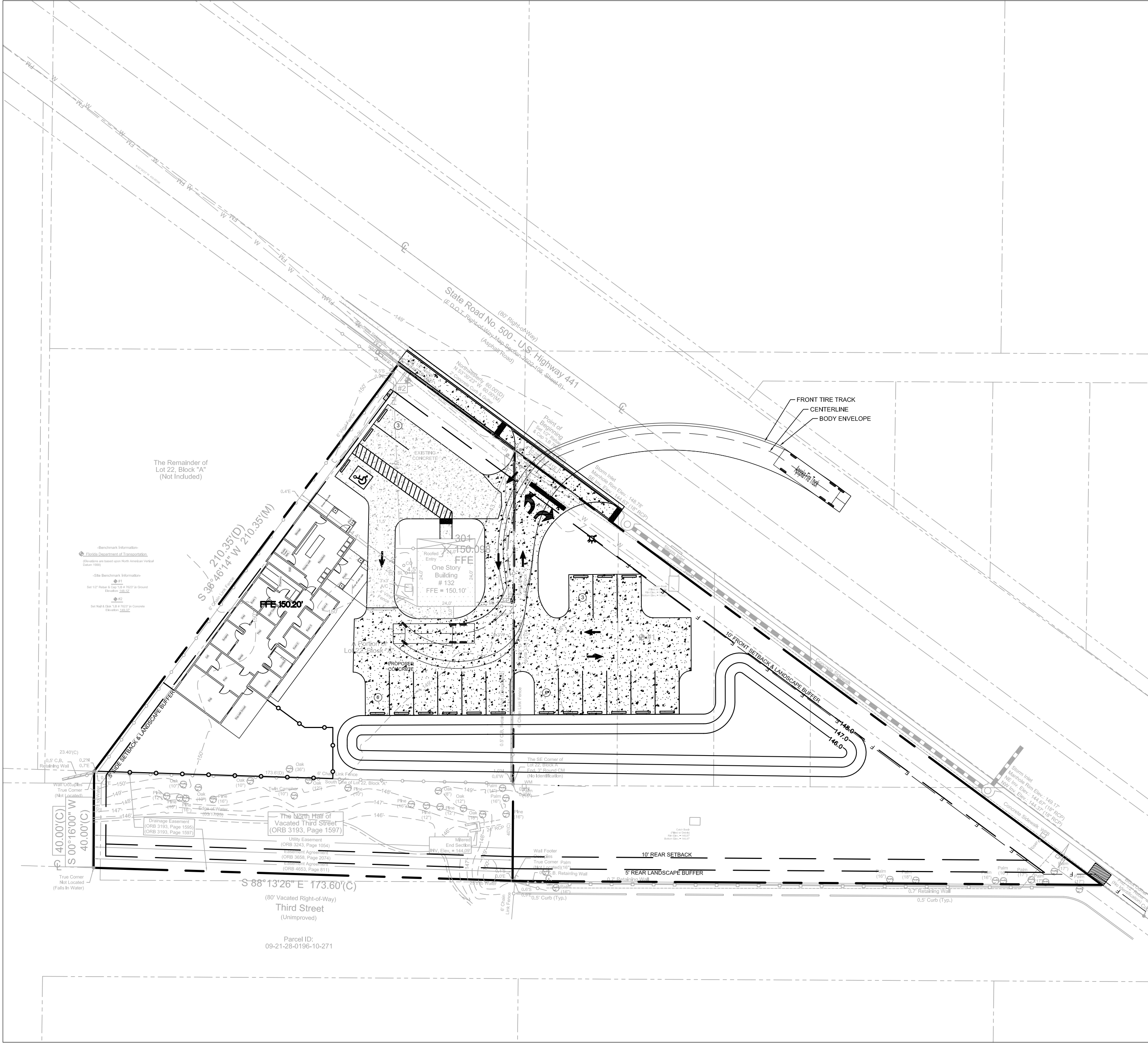
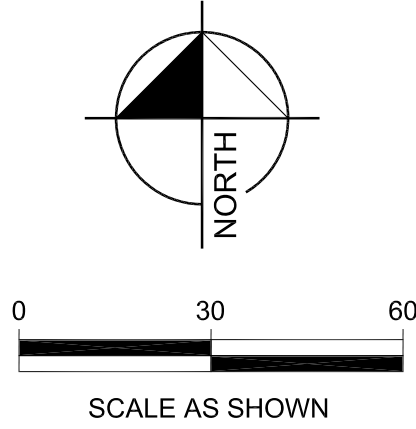
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Gregory T
Chatelain
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APOPKA VET CLINIC 132 & 124 W. MAIN STREET APOPKA, FL 32703 ORANGE COUNTY FLORIDA		SITE PLAN		SCALE: AS NOTED		DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573 SEAL					
DATE 1/26		PROJECT NO. 33-100-25		SHEET NUMBER C04							

FIRE TRUCK ENTRANCE PATH

FIRE TRUCK EXIT PATH

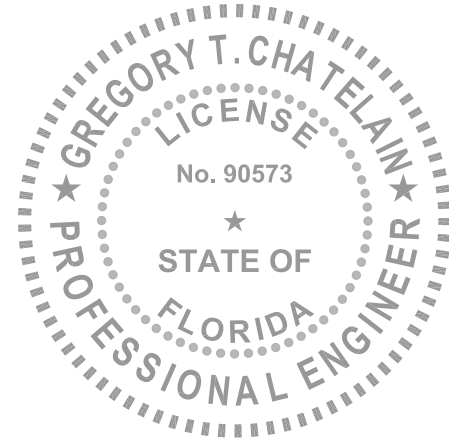


1. NEEDED FIRE FLOW CALCULATION

- PROPOSED BUILDING
A. TYPE III BUILDING CONSTRUCTION
B. LARGEST BUILDING SIZE 3862 SQUARE FEET
C. NFF BASED ON FLORIDA FIRE PREVENTION CODE 8TH EDITION IS 1,500 GPM
D. FLOW SHALL HAVE A MINIMUM OF 2 HOUR DURATION

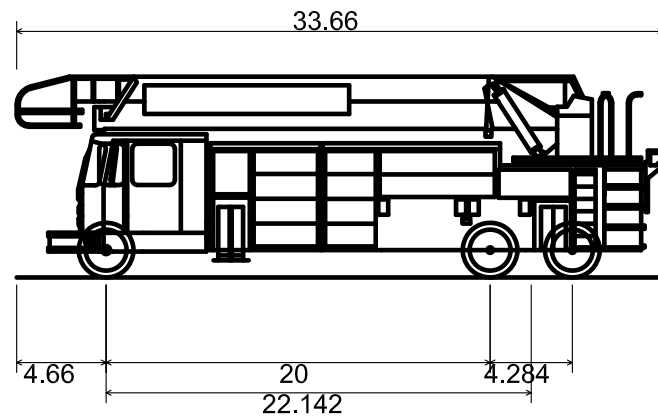
2. REQUIRED NUMBER OF FIRE HYDRANT (TABLE 18 5.4.3) -> BUILDING DISTANCE LESS THAN 250 FT MAXIMUM CREDIT FOR 1,500 GPM PER FIRE HYDRANT.
1 HYDRANT PROVIDED AT A DISTANCE OF 177' FROM BUILDING.

FIRE FLOW
PROPOSED FIRE HYDRANT WITHIN 250 FT= 1@1,500 GPM
TOTAL FF PROVIDED =1,500 GPM



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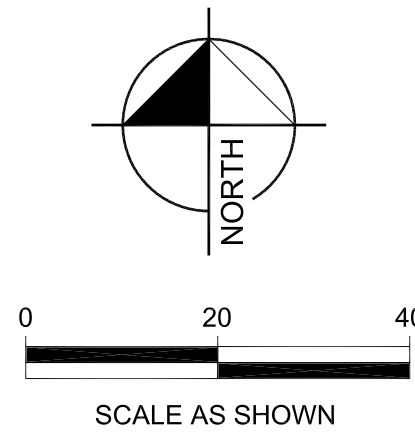


Apopka Fire Truck
Overall Length 33.660ft
Overall Width 8.160ft
Overall Body Height 10.460ft
Min Body Ground Clearance 0.890ft
Track Width 8.160ft
Lock-to-lock time 6.00s
Max Wheel Angle 46.00°

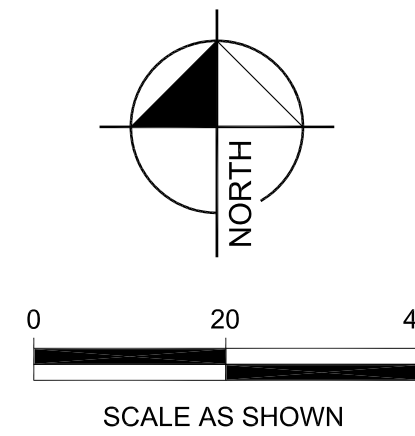
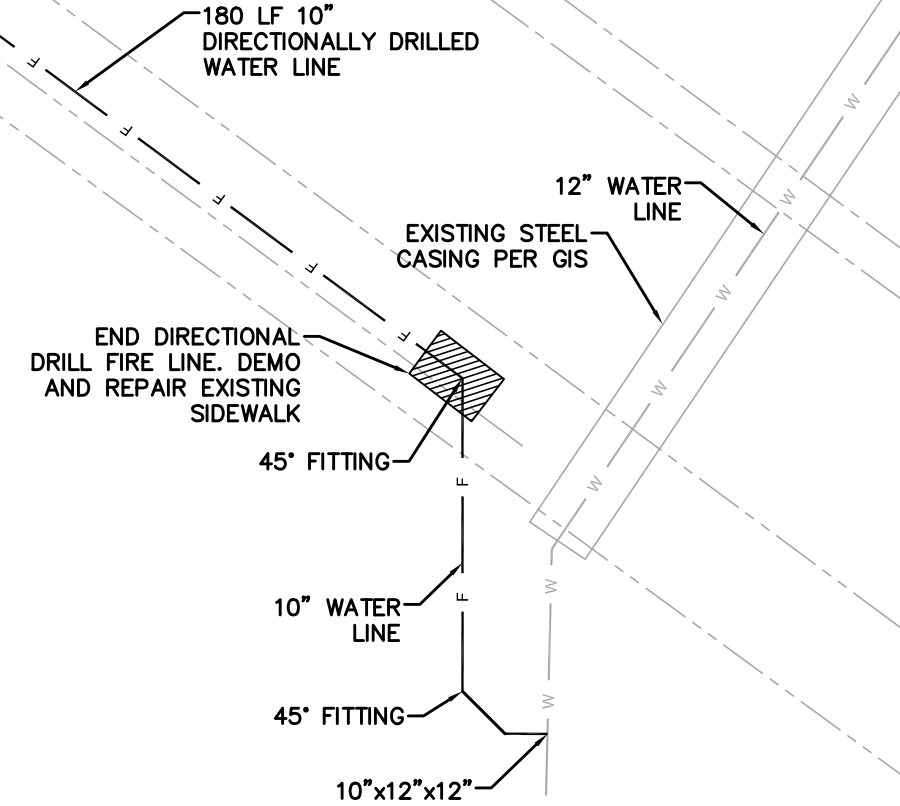
APOPKA VET CLINIC 132 & 124 W. MAIN STREET APOPKA, FL 32703		FLORIDA		ORANGE COUNTY	
FIRE TRUCK AUTO-TURN PLAN		DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E.		FLORIDA REGISTRATION NUMBER: 90573	
SCALES NOTED DESIGNED BY CC		DRAWN BY CC		CHECKED BY GTC	
CHATELAIN ENGINEERING		SEAL		REVISIONS	
DATE		BY		No.	
1/26					
PROJECT NO. 33-100-25		SHEET NUMBER C06			

LEGEND

- W — W — EXISTING WATER MAIN
— W — W — PROPOSED WATER MAIN
— S — S — S — EXISTING SANITARY SEWER
— S — S — S — PROPOSED SANITARY SEWER
— GAS — PROPOSED GAS LINE
— F — F — PROPOSED FIRE LINE
— PROPOSED STORM
— EXISTING STORM
— F/M — EXISTING FORCE MAIN
— R/W — EXISTING RECLAIMED WATER MAIN
SS — PROPOSED MANHOLE
SS — EXISTING MANHOLE
IN — PROPOSED INLET
IN — EXISTING INLET
CO — EXISTING CLEANOUT
CO — PROPOSED CLEANOUT
FHA — PROPOSED FIRE HYDRANT ASSEMBLY
GV — GATE VALVE
WM — PROPOSED WATER METER
DWS — DETECTABLE WARNING SURFACE
CON — CONCRETE



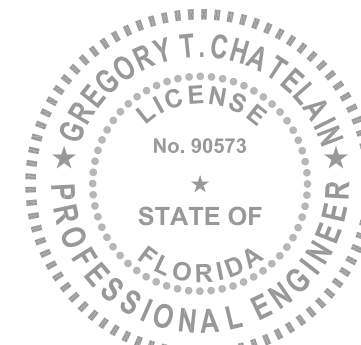
MATCH LINE A - SEE BELOW



12" LIFTS COMPACTED SUBGRADE
MIN. 98% OF MAX. DENSITY

4" CONCRETE PAVEMENT, 28 DAY MIN
COMPRESSION STRENGTH OF 3000 PSI
W/ FIBER MESH (ASTM C-39)

SIDEWALK REPAIR DETAIL
NTS



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MATCH LINE A - SEE ABOVE

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CHATELAIN
ENGINEERING

DESIGN ENGINEER:
GREGORY T. CHATELAIN, P.E.
FLORIDA REGISTRATION NUMBER:
90573

SCALE: NOTED
DESIGNED BY: CC
DRAWN BY: CC
CHECKED BY: GTC

UTILITY PLAN

APOKA VET CLINIC
132 & 124 W. MAIN STREET
APOKA, FL 32703

ORANGE COUNTY

DATE
1/26
PROJECT NO.
33-100-25
SHEET NUMBER
C07

RILEY & Company, Inc. (H-20 GP)[®]
w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS
(No Substitutions - No Alternates)

PUMPS: SPECIFICATION

Submersible grinder pumps shall be installed in the H-20 FRP wet well utilizing a dual slide rail system.

The pumps shall be capable of pumping materials normally found in domestic and commercial wastewater.

Stator winding shall be open type with Class H insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts and other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with a magnetic contactor coil in the control panel. If the winding temperature exceeds 140° C, the motor shall shut off but shall automatically reset when the temperature drops below the threshold. Two heat sensors shall be used on 3 phase motors. Upper & lower mechanical seals shall have Silicon Carbide vs Silicon Carbide.

CONTROL PANEL: SPECIFICATION

The Enclosure shall be NEMA 4X, minimum 30" high x 20" wide x 10" deep with a 3 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting. The following components shall be mounted through the enclosure:

- 1- ea. Red Alarm Beacon (Light) LED 360 Degree viewable range, NEMA 4X
- 1- ea. Alarm Horn (minimum 95 DCB), ROHS 3 Compliant, NEMA 4X
- 1- ea. Generator Receptacle w/ weatherproof cover 60A Minimum. Shall meet UL 1682, UL 1686 and UL486E Compliance.

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:

- 2- ea. IEC Style Motor Contactors
- 1- ea. Volt Monitor (1 Ph) Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
- 1- ea. Alternator w/ Pump Lead Switch
- 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
- 1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger (UPS) - 24 Hr Min.
- 20- ea. Terminals For Field Connections
- 6- ea. Terminals For Motor Connections (Single Phase Only)
- 7- ea. Grounding Lugs
- 1- ea. Lightning and Surge Protection shall meet the UL 1449 2nd Edition

The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:

- 1- ea. Main Circuit Breaker - UL489
- 1- ea. Emergency Circuit Breaker - UL 489
- 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
- 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
- 1- ea. Control Circuit Breaker & GFCI Circuit Breaker - UL 489
- 1- ea. GFI Duplex Convenience Outlet - NEMA 5-15R
- 2- ea. Elapsed Time Meter, Non-Resettable

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained within in a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting. The control panel must be manufactured in-house by the lift station supplier and be a TUV (UL508A Certified) facility.

WET WELL: SPECIFICATION

Wet Well FRP Wall Laminate must be designed to withstand wall collapse or buckling based on third party specifications and the assumptions below.

- *Hydrostatic Pressure: 62.4 lbs. Per SQ Ft.
- *Saturated Soil Weight: 120 lbs. Per Cubic Ft.
- *Soil Modulus: 700 lbs Per SQ Ft.
- *Pipe Stiffness as Specified in ASTM D 3753

The wet well FRP laminate must be constructed to withstand or exceed two times the assumed loading for the complete depth of the structure.

The cover shall be constructed of ¼ inch thick finished aluminum, diamond plate pattern with 300 series stainless steel hardware. The hatch shall have a positive means of locking the door open in the vertical position via a hold open arm and shall be made of a non-corrosive material. The cover shall be mounted with minimum of six 300 series stainless steel fasteners. The access hatch cover shall have a lift handle and a means of locking.

The prefabricated FRP lift station manufacturer shall guarantee the prefabricated lift station per approved drawings for a period of one year from the date of delivery.

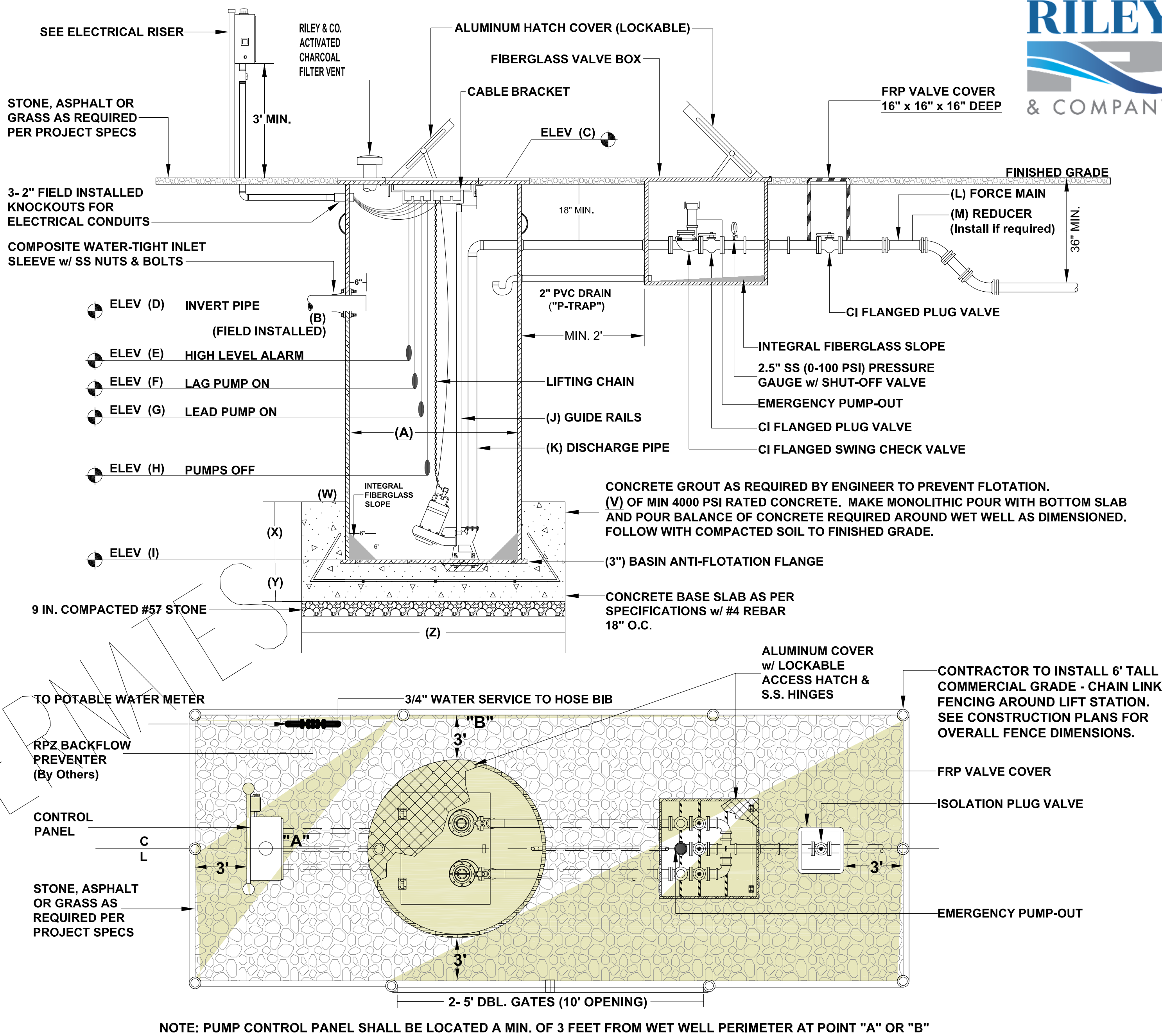
INSPECTION & TESTING:

A factory representative shall be provided for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of the complete system. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor and cable is intact. The pumps and the controls shall be checked for mechanical reliability and proper operation.

EXECUTION:

Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the engineered drawings.

STATION DESIGN CONDITIONS			
PRIMARY PUMP CAPACITY	38	GPM	
PRIMARY TDH	21	'TDH	
RUN-OUT PUMP CAPACITY	n/a	GPM	
RUN-OUT TDH	n/a	'TDH	
PUMP MODEL #	HOMA RC10027		
R.P.M.	3450		
HORSEPOWER	1.3		
ELECTRICAL VOLTS / PHASE	230V/3Ø		
PUMP DISCHARGE SIZE	2"		
STATION ELEVATIONS AND DIMENSIONS			
100 YEAR FLOOD ELEVATION		xxx.xx'	
WET WELL DIAMETER (A)	36"		
INVERT DIAMETER (B)		PER EOR	
TOP OF WET WELL (C)	150.10'		
INLET / INVERT (D)	147.10'		
HIGH LEVEL ALARM (HLA) (E)	146.60'		
2nd PUMP ON (LAG) (F)	146.10'		
1st PUMP ON (LEAD) (G)	145.60'		
PUMPS OFF (OFF) (H)	144.94'		
BOTTOM OF WET WELL (I)	143.10'		
GUIDE RAIL DIAMETER (J)	1"		
DISCHARGE PIPE DIAMETER (K)	2"		
F.M. PIPE DIAMETER (L)	2"		
REDUCER (If Required) (M)	n/a		
STATION MANUFACTURING MATERIALS			
DISCHARGE/RISER PIPE	HDPE		
INLET PIPE	PVC		
GUIDE RAIL	304 SS		
WET WELL	FRP ASTM D-3753		
WET WELL HATCH COVER	300 LBS PSF ALUM		
CABLE BRACKET	304 SS		
LIFTING CHAIN	304 SS		
PLUG VALVE	CAST IRON		
SWING CHECK VALVE	CAST IRON		
VALVE BOX	FRP		
VALVE BOX HATCH COVER	300 LBS PSF ALUM		
STATION VALVE BOX SIZES			
(36" x 36" x 36" DEEP)	FOR 2" DISCHARGE		
(48" x 48" x 36" DEEP)	FOR 3" DISCHARGE		
(48" x 48" x 36" DEEP)	FOR 4" DISCHARGE		
STATION HATCH OPENINGS			
WET WELL DIA.	36"	48"	60"
	27" x 20"	36" x 24"	36" x 30"
CONCRETE BALLAST REQUIREMENTS			
CUBIC YARDS OF CONCRETE REQUIRED (V)	1.40 yds³		
CIRCUMFERENCE DIMENSION - WIDTH (W)	12.0"		
CIRCUMFERENCE DIMENSION - HEIGHT (X)	12.0"		
BASE SLAB DIMENSION - HEIGHT (Y)	12.0"		
BASE SLAB DIMENSION - LENGTH & WIDTH (Z)	60.0"		



18" x 24" PRIVATE SANITARY SEWER PUMP STATION

IN CASE OF EMERGENCY CONTACT THE FOLLOWING NUMBERS:

FACILITY OWNED BY: NAME: PHONE NUMBER:

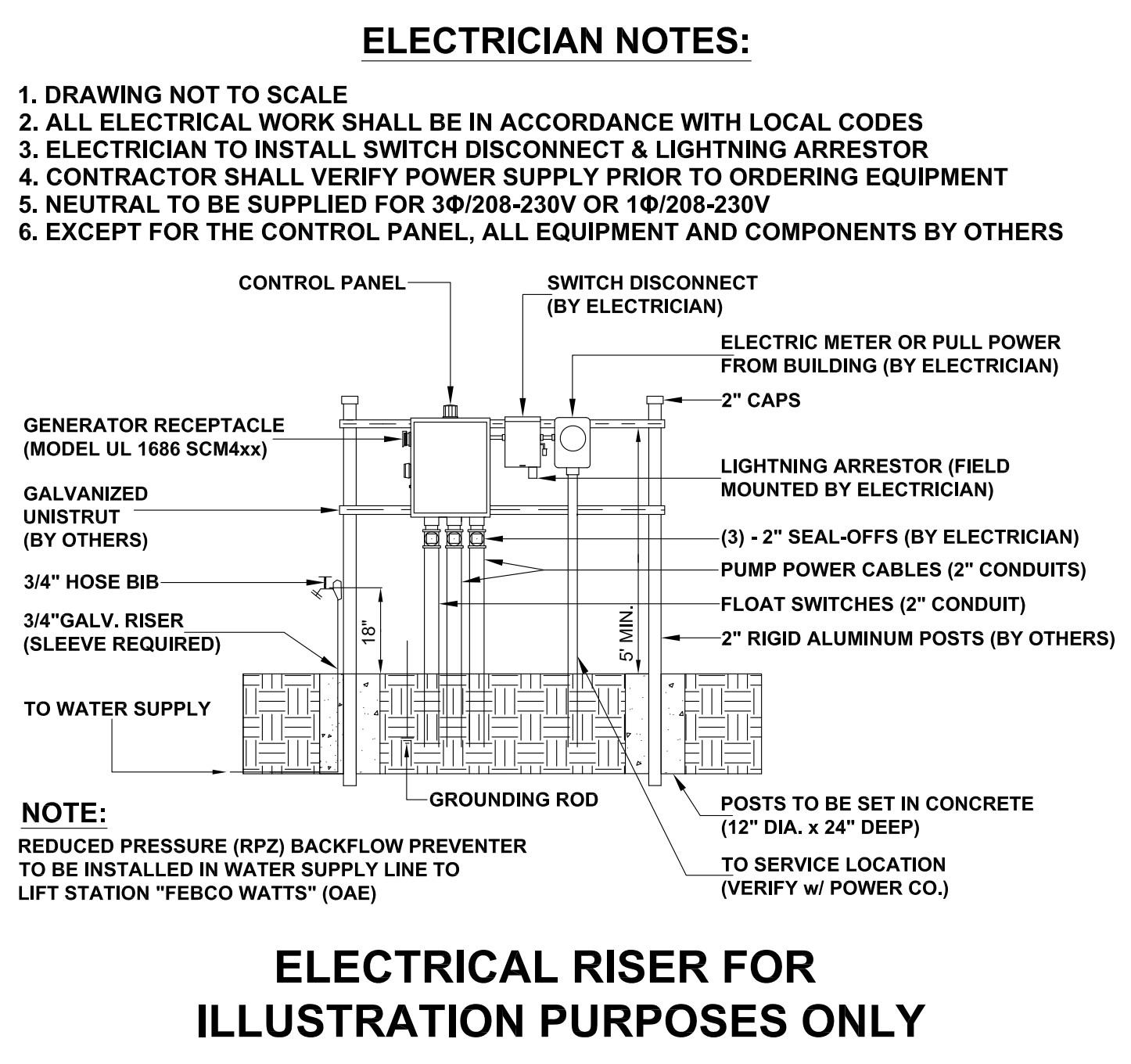
FACILITY MAINTAINED BY: NAME: PHONE NUMBER:

STATION NUMBER:

NOTE: CONTRACTOR MUST SUPPLY INFORMATION SIGN AT START-UP.

LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED

PRIOR TO START-UP, OWNER MUST HAVE A MINIMUM 1 YR. PREVENTIVE MAINTENANCE CONTRACT WITH A REPUTABLE LIFT STATION MAINTENANCE COMPANY.



Digitally signed by Gregory T Chatelain
Date: 2026.01.30 14:36:01 -05'00'

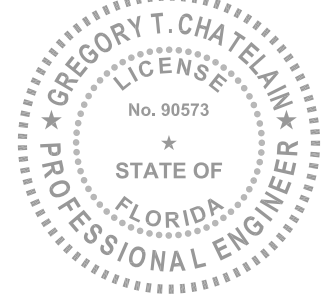
For Lift Station Proposal:
Please Contact Chase Rachal
(407) 265-9963
c.rachal@rileyandco.com

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ELECTRICIAN NOTES:

1. DRAWING NOT TO SCALE
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES
3. ELECTRICIAN TO INSTALL SWITCH DISCONNECT & LIGHTNING ARRESTOR
4. CONTRACTOR SHALL VERIFY POWER SUPPLY PRIOR TO ORDERING EQUIPMENT
5. NEUTRAL TO BE SUPPLIED FOR 3Ø/208-230V OR 1Ø/208-230V

1. DRAWING NOT TO SCALE
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES
3. ELECTRICIAN TO INSTALL SWITCH DISCONNECT & LIGHTNING ARRESTOR
4. CONTRACTOR SHALL VERIFY POWER SUPPLY PRIOR TO ORDERING EQUIPMENT
5. NEUTRAL TO BE SUPPLIED FOR 3Ø/208-230V OR 1Ø/208-230V



This item has been electronically signed and sealed by Gregory T. Chatelain, F.E. on the time & date stamp shown using digital signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Digitally signed by
Gregory T Chatelain
Date: 2026.01.30
14:36:16 -05'00'

STATION DESIGN CONDITIONS		
PRIMARY PUMP CAPACITY	55	GPM
PRIMARY TDH	4	'TDH
RUN-OUT PUMP CAPACITY	n/a	GPM
RUN-OUT TDH	n/a	'TDH
PUMP MODEL #	Liberty FL 32A	
R.P.M.	3450	
HORSEPOWER	2.0	
ELECTRICAL VOLTS / PHASE	230V/1Φ	
PUMP DISCHARGE SIZE	2"	
STATION ELEVATIONS AND DIMENSIONS		
100 YEAR FLOOD ELEVATION		xxx.xx'
GRATE ELEVATION (A)		147.80'
DISCHARGE ELEVATION (B)		146.60'
INVERT ELEVATION (C)		143.10'
PUMP ON (D)		146.00'
PUMP OFF (E)		143.50'
BOTTOM OF STRUCTURE (F)		142.00'
INVERT PIPE DIAMETER (G)		6"
DISCHARGE PIPE DIAMETER (H)		2"
CASING PIPE DIAMETER (J)		12"
STATION MANUFACTURING MATERIALS		
DISCHARGE/RISER PIPE		PVC
FDOT TYPE C DBI STRUCTURE		CONCRETE
TOP GRATE		STEEL
CHECK VALVE		PVC

DATE 1/26		APOPKA VET CLINIC 132 & 124 W. MAIN STREET APOPKA, FL 32703		FLORIDA	
SHEET NUMBER C09		PROJECT NO. 33-100-25		ORANGE COUNTY	
STORMWATER POND LIFT STATION DETAIL					
DESIGNED BY CC DRAWN BY CC CHECKED BY GTC		DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573		SEAL	
SCALE: AS NOTED		CHATELAIN ENGINEERING		NO. _____	
				REVISIONS	
				DATE	
				BY	

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS							
	POTABLE WATER		RECLAIMED WATER* TONG MAIN		SANITARY SEWER GRAVITY MAIN		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	—	—	3'	12"	6'	12"	3'	6"
RECLAIMED WATER	3'	12"	—	—	3'	12"	—	—
SANITARY SEWER FORCE MAIN	6'	12"	3'	12"	—	—	—	—
SANITARY SEWER GRAVITY MAIN	6'	8" ABOVE 12" BELOW	3'	12"	—	—	—	—

GENERAL NOTES:

1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.

2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-61.5. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.

3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.

C/C - DENOTES CENTER OF PIPE TO CENTER OF PIPE.

O/O - DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

4. ACCEPTABLE VARIANCES:

A. WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE, PVC-C-900 SDR-14 OR CONCRETE ENCASEMENT MUST BE USED FOR THE SANITARY SEWER LINE FOR AT LEAST ONE OF THE PIPES. PVC-C-900 SDR-14 OR CONCRETE ENCASEMENT MUST BE USED UNTIL MINIMUM CLEARANCE IS REGAINED.

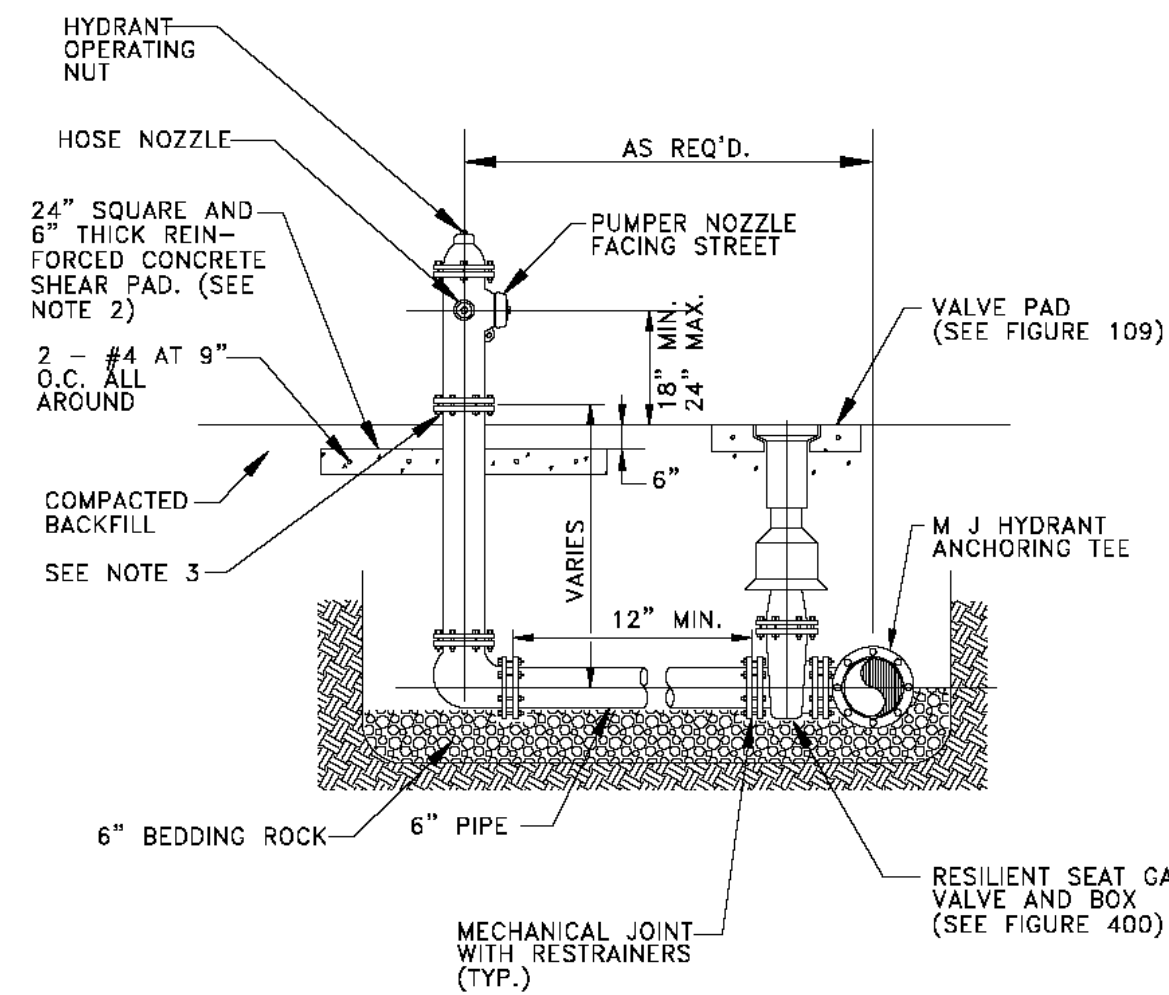
B. WHERE 18 INCH VERTICAL SEPARATION IS NOT ATTAINABLE AT CROSSINGS, USE ONE FULL LENGTH OF PVC-C-900 SDR-14 FOR SANITARY SEWERS OR ENCASED PIPE CENTERED AT THE POINT OF CROSSING SPECIAL SUPPORT MAY BE REQUIRED.

5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

6. CONCRETE ENCASEMENT SHALL NOT BE USED UNLESS APPROVED BY PUBLIC SERVICES DIRECTOR OR HIS DESIGNEE.

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 104
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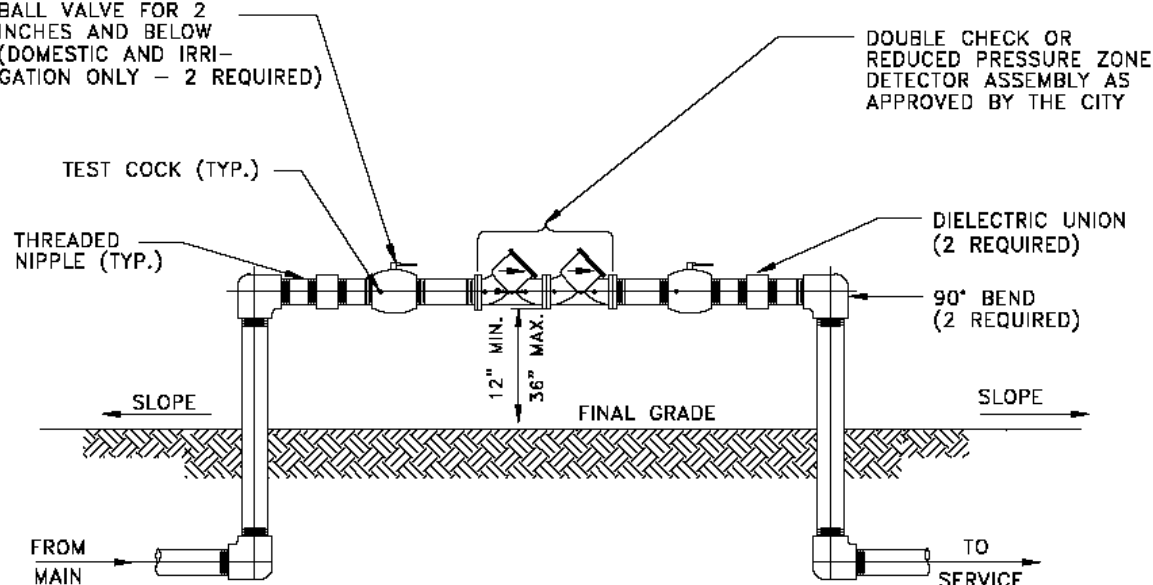


NOTES:

1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
2. THE SHEAR PAD SHALL BE RECESSED SIX (6) INCHES BELOW THE FINISHED GRADE AND THE RECESSED SECTION SODDED.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A TWELVE (12) INCH MINIMUM.
4. FIRE HYDRANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF APOPKA CONSTRUCTION DESIGN STANDARDS MANUAL.

FIRE HYDRANT ASSEMBLY DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 402
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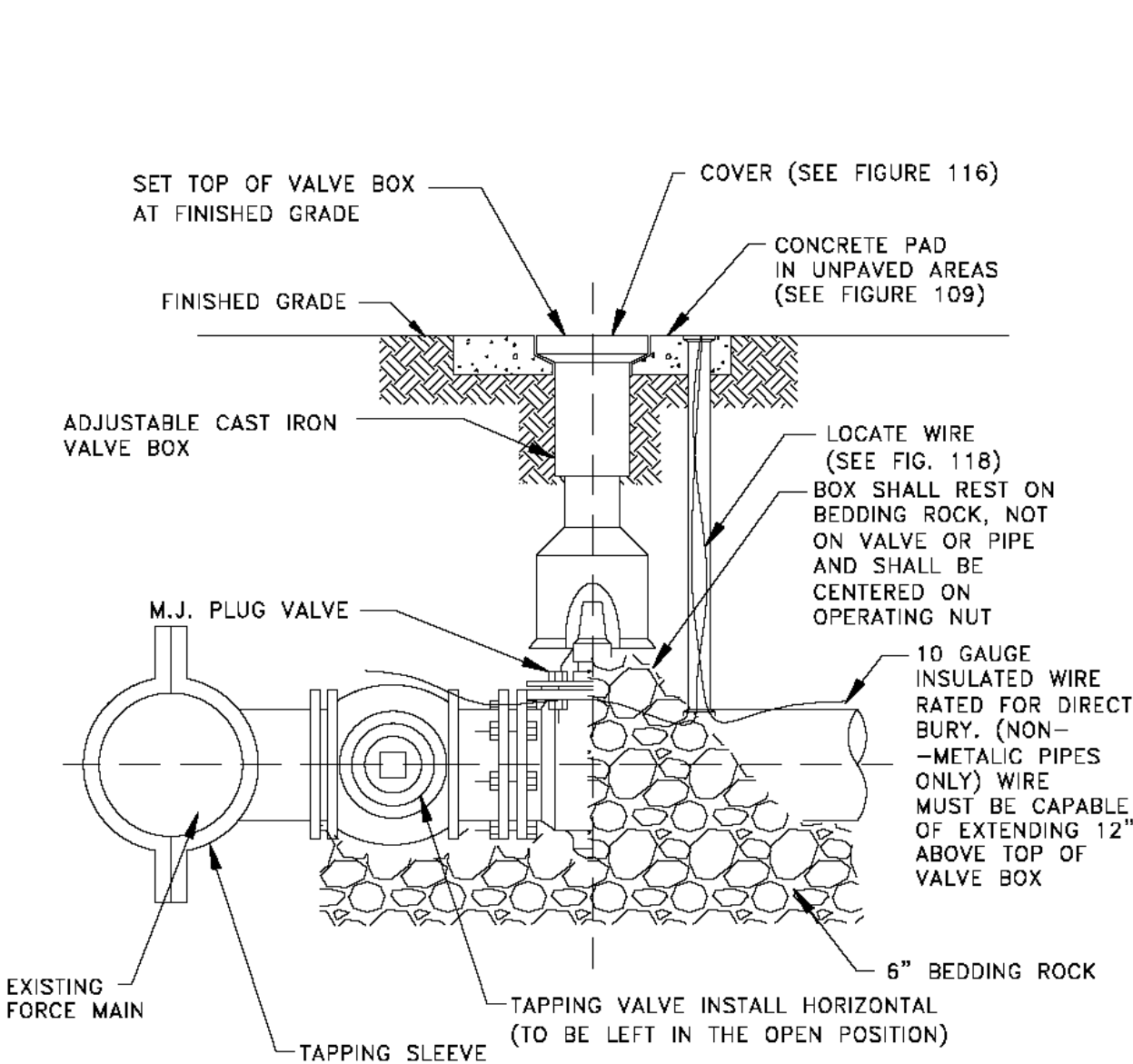
NOTES:

1. ALL PIPE FITTINGS, MATERIALS, LABOR, AND APPURTENANCES SHALL BE SUPPLIED BY THE CONTRACTOR.
2. ALL PIPE AND FITTINGS TWO (2) INCHES AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL.

DOUBLE CHECK OR REDUCED PRESSURE
ZONE DETECTOR ASSEMBLY

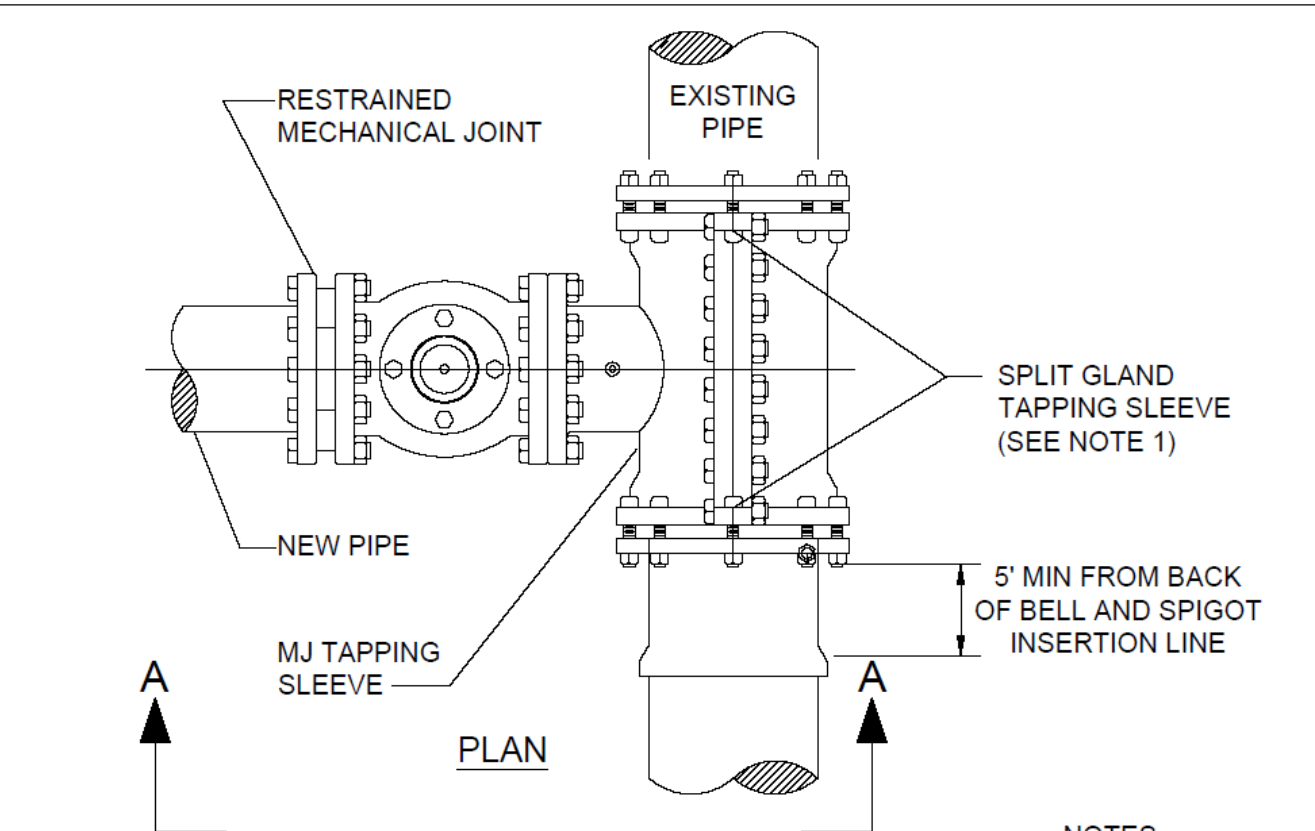
2 INCH AND BELOW ASSEMBLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 A
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FORCE MAIN WET TAP TIE-IN DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 206
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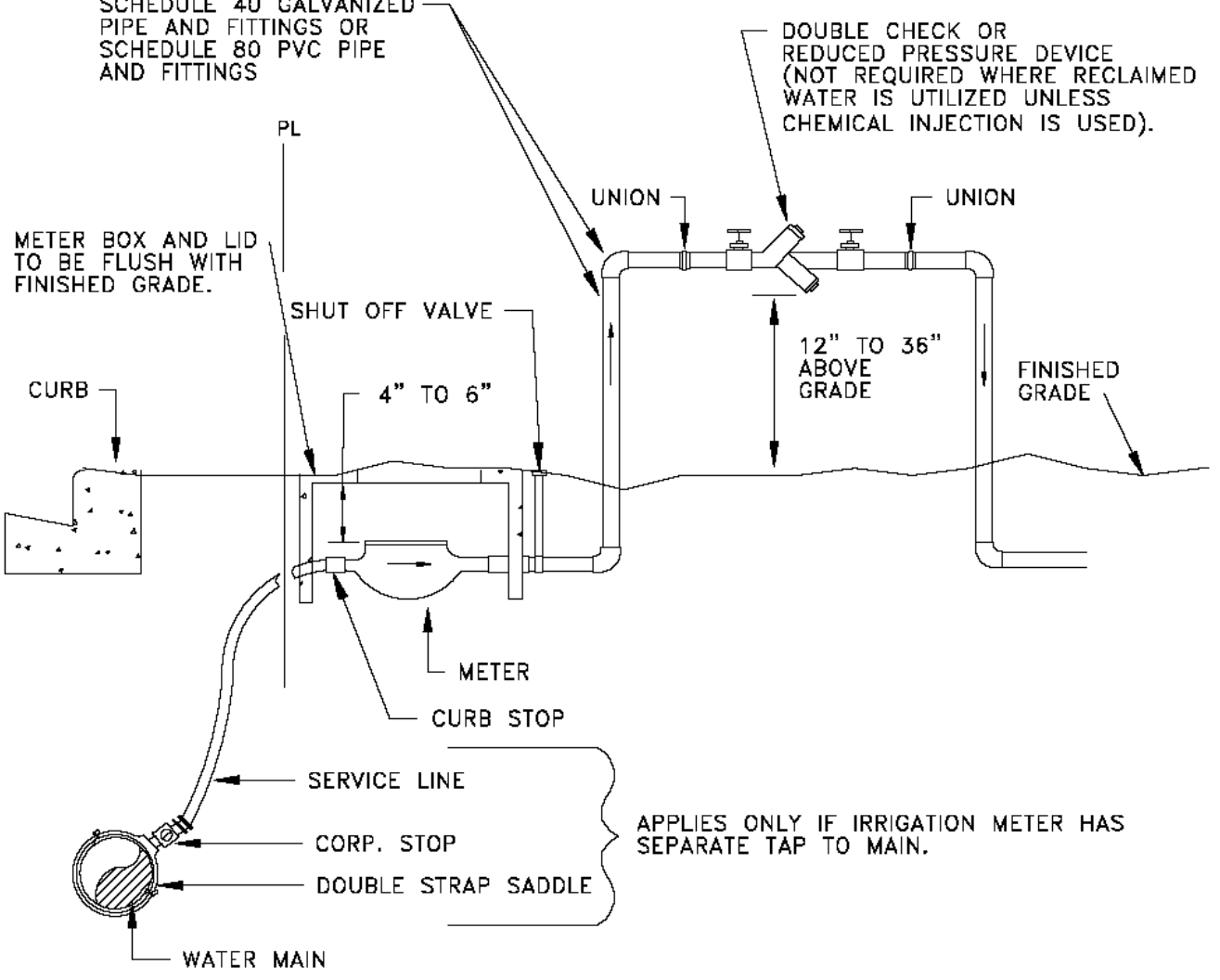


NOTES

1. SIZE ON SIZE WET TAPS WILL CALL FOR FULL ENFORCEMENT STAINLESS STEEL MJ TAPPING SLEEVE; MUELLER H-304, OR EQUAL.
2. ALL NEWLY INSTALLED TAPPING SLEEVES & TAPPING VALVES SHALL BE PNEUMATICALLY TESTED AT A TEST PRESSURE OF 150PSI FOR A PERIOD OF THIRTY MINUTES.

SECTION A - A
WATER AND RECLAIMED WATER MAINS
WET TAP TIE-IN DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 406
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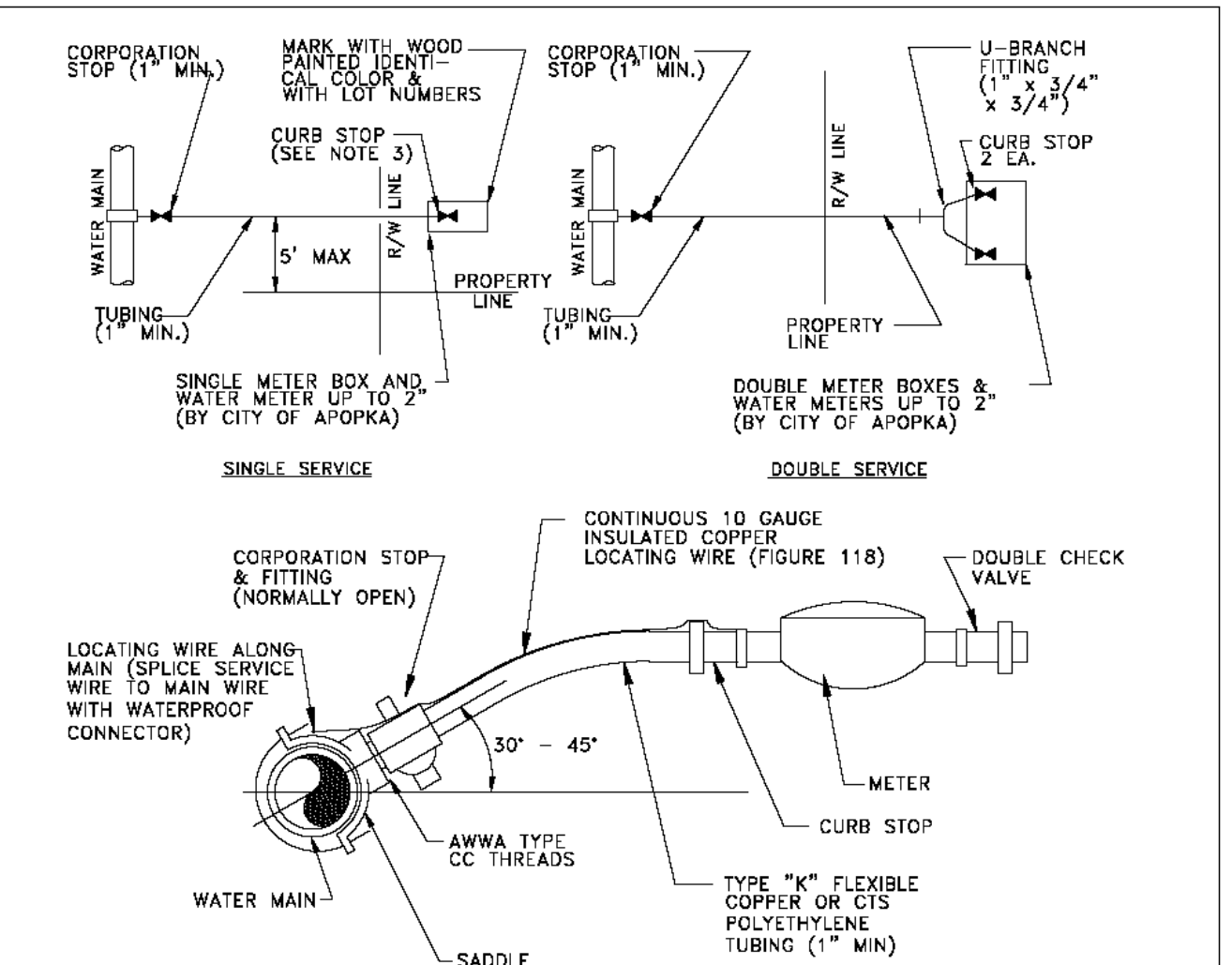


NOTES:

1. A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
2. METER SHALL BE INSTALLED JUST INSIDE THE ROW LINE OR PROPERTY LINE AND IN NO CASE SHALL IT BE INSTALLED IN THE SIDEWALK OR OTHER PAVED AREAS.
3. DOUBLE CHECK VALVES MAY BE USED AS LONG AS THEIR ARE NO CHEMICALS OR A WELL ON SITE.
4. A PVD DEVICE SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD.
5. ALL BACKFLOW PREVENTION DEVICES ARE TO BE AWWA APPROVED.

IRRIGATION METER AND DOUBLE CHECK VALVE OR
REDUCED PRESSURE BACKFLOW PREVENTER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 502
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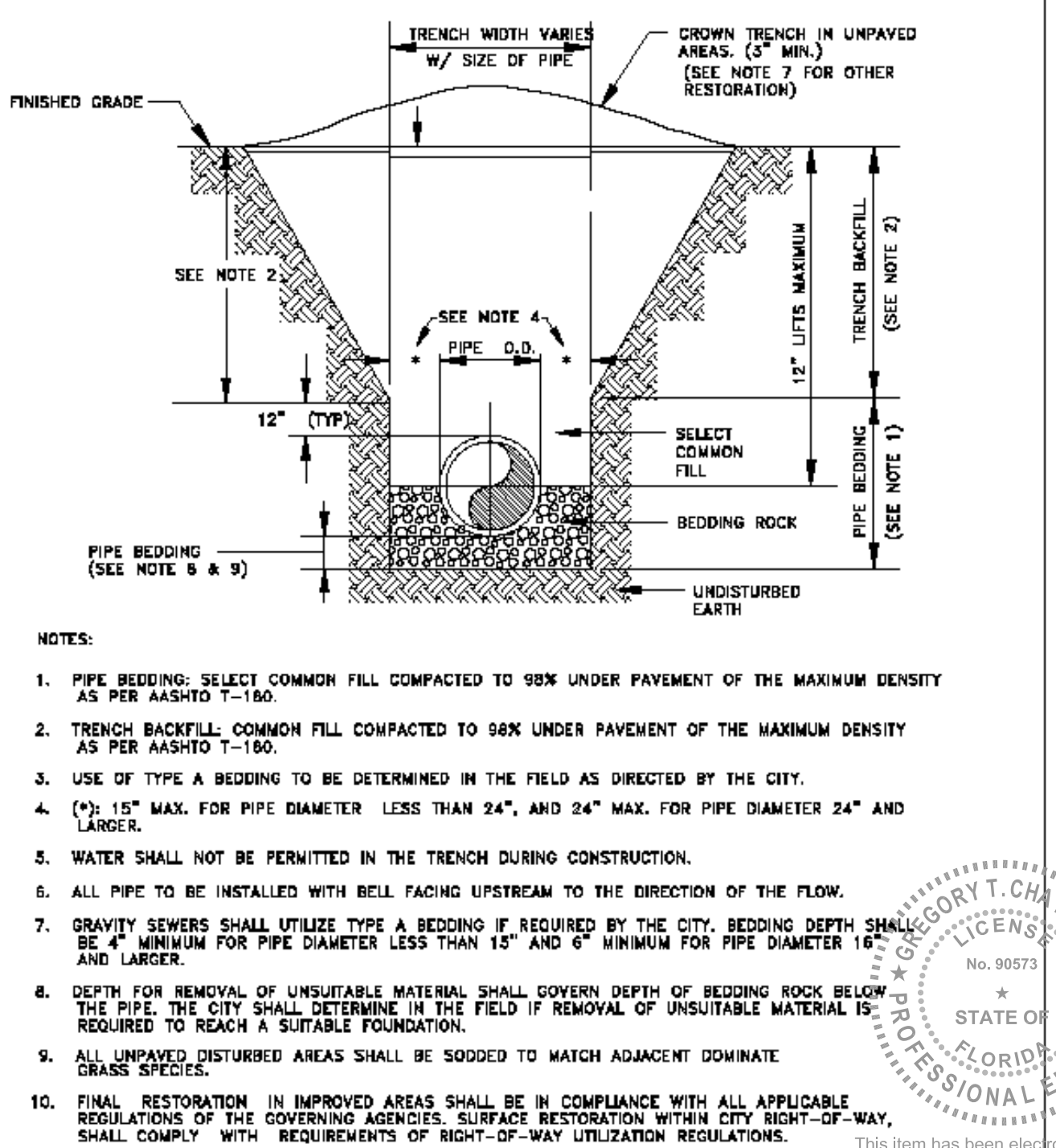


NOTES:

1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" x 2" x 18" STAKE WITH THE TOP PAINTED BLUE FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER, AND MARKED WITH THE NUMBER OF THE LO(S) TO BE SERVED.
4. RECLAIMED WATER SERVICES SHALL USE PURPLE COLORED CTS POLYETHYLENE TUBING.
5. POTABLE WATER SERVICES SHALL USE BLUE COLORED CTS POLYETHYLENE TUBING.
6. ALL SERVICE UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE INSTALLED IN A MINIMUM 2" PVC SLEEVE.

WATER SERVICE CONNECTION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 405
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NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE OF TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (1"): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE CITY SHALL DETERMINE IN THE FIELD IF REMOVAL OF UNSUITABLE MATERIAL IS REQUIRED TO REACH A SUITABLE FOUNDATION.
9. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINANT GRASS SPECIES.
10. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.

TYPE "A" BEDDING AND OPEN-CUT DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 403
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Digitally signed by
Gregory T Chatelain
Date: 2026.01.30
14:36:35 -05'00'

DESIGN ENGINEER:
GREGORY T. CHATELAIN, P.E.
FLORIDA REGISTRATION NUMBER:
90573

DESIGNED BY: CC
DRAWN BY: CC
CHECKED BY: GTC

SEAL

CITY OF APOPKA
STANDARD DETAILS

APPOKA VET CLINIC
132 & 124 W. MAIN STREET
APOPKA, FL 32703

FLORIDA
ORANGE COUNTY

DATE
1/26

PROJECT NO.
33-100-25

SHEET NUMBER
C10

REVISIONS
No.
DATE
BY

OCU GENERAL NOTES

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO; WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS AND DEPTHS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH CENTER AT (407) 636-2777 AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9786.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 UTILITIES' SCHEDULE OF NOTIFICATIONS IN THIS MANUAL.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTED TO THE OCU SYSTEM SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS, OCU FACILITIES.
6. ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO: WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, POLES AND STAYS, CABLE TV AND OTHER UTILITY FACILITIES FALLING WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS, OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO: PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS.
8. ONLY OCU PERSONNEL SHALL OPERATE EXISTING OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
9. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL ADVISE THE OCU INSPECTOR OF ANY VALVE CLOSURE OR INTERRUPTION OF THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
10. IF THE CONTRACTOR HAS ANY STOPPING AND/OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS, THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAIL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
11. ALL SLEEVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP, DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
12. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER, ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
13. FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
14. FOR PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADII FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
15. FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
16. ALL DAMAGE TO ORANGE COUNTY INFRASTRUCTURE, PIPELINES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY ENGINEER. THE REPAIR METHOD BY THE COUNTY, IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL REPAIRS ASSOCIATED WITH THE REPAIRS.
17. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS.

ORANGE COUNTY UTILITIES		FIGURE GN
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL		10/10/2021

JACK & BORE - DETAIL B

MIN COVER FOR VALVE (TYP)
(SEE CHART)

LOCATE WIRE

EDGE OF PAVEMENT

ARV & ENCLOSURE (TYP)

BORE PIT

ISOLATION VALVE (TYP)

CASING END SEAL

CASING PIPE

(SEE DETAIL A107-1 FOR CASING & RESTRAINT DETAILS)

RESTRAINED JOINT PIPING

SEE NOTE 1

SEE NOTE 3

SEE NOTE 1

NOTES:

1. CASING, BRICK AND MORTAR SHALL EXTEND A MINIMUM OF 10-FT BEYOND THE EDGE OF PAVEMENT OR MEET FDOT REQUIREMENTS, WHICHEVER IS GREATER.
2. REQUIREMENTS OF OTHER JURISDICTIONS SHALL BE MET, WHEN CONSTRUCTION IS WITHIN FOOT JURISDICTION. ADDITIONAL REQUIREMENTS OF THE FOOT UTILITY ACCOMMODATION GUIDE SHALL BE MET.
3. CASING MINIMUM DEPTH SHALL BE 48-IN OF COVER OR AS REQUIRED BY FDOT, OTHER JURISDICTION, OR AS SHOWN ON PLANS, WHICHEVER IS GREATER.
4. ADDITIONAL TAPS MAY BE REQUIRED ON WATER MAINS CROSSING SURFACE WATER PER RECOMMENDED STANDARDS FOR WATER WORKS (RSWW PART 8.9).

ORANGE COUNTY UTILITIES

STANDARDS & CONSTRUCTION
SPECIFICATIONS MANUAL

FIGURE A107-2

10/10/2021

APPENDIX A			STANDARD DRAWINGS					
VERTICAL PIPELINE SEPARATION REQUIREMENTS								
VERTICAL SEPARATION REQUIREMENTS (NOTES 1 & 2)								
PROPOSED UTILITY	POTABLE WATER (NOTE 4)	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)			
POTABLE WATER (NOTE 4)	12"	12"	12" / 18"	12" / 18"	12" / 18"			
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"			
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"			
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"			
NOTES: 1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE. 2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. 3. THE 18-IN SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE OR SANITARY SEWER CROSSES ABOVE THE UTILITY MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24-IN. OTHERWISE, THE REQUIRED SEPARATION IS 12-IN. 4. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES. 5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE. 6. REFERENCE FIGURE A116-1 FOR HORIZONTAL PIPELINE SEPARATION REQUIREMENTS. 7. JOINT SPACING AT CROSSING SHALL COMPLY WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, F.A.C.								
ORANGE COUNTY UTILITIES				FIGURE A116-2				
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL				10/10/2021				

APPENDIX A

STANDARD DRAWINGS

HORIZONTAL PIPELINE SEPARATION REQUIREMENTS

HORIZONTAL SEPARATION REQUIREMENTS (NOTES 1 & 2)

PROPOSED UTILITY		POTABLE WATER (NOTE 3)		RECLAIMED WATER MAIN (SEE NOTE 7)		WASTEWATER FORCEMAIN		SANITARY SEWER	STORM SEWER	STRUCTURAL FOUNDATION, WALLS, ETC. (SEE NOTE 8)
		4"-12"	16"-UP	4"-12"	16"-UP	4"-12"	16"-UP	ALL SIZES	ALL SIZES	ALL SIZES
POTABLE WATER (NOTE 3)	4"-12"	3'	5'	3'	5'	6'	6'	6'	3'	10'
	16"-UP	5'	5'	5'	5'	6'	6'	6'	5'	15' (NOTE 5)
RECLAIMED WATER MAIN (SEE NOTE 7)	4"-12"	3'	5'	3'	5'	3'	5'	3'	3'	10'
	16"-UP	5'	5'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)
WASTEWATER FORCEMAIN	4"-12"	6'	6'	3'	5'	3'	5'	3'	3'	10'
	16"-UP	6'	6'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)
SANITARY SEWER	ALL SIZES	6'	6'	3'	5'	3'	5'	3'	5'	VARIABLE PER DEPTH

NOTES:

1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. FOR PIPES INSTALLED AT GREATER DEPTHS THAN THE MINIMUM OCC DESIGN STANDARDS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.

3. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES PRIOR TO INSTALLATION.

4. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

5. PRESSURE MAINS 16-IN TO 24-IN MAY HAVE 10-FT SEPARATION FROM STRUCTURAL FOUNDATION, WALLS, ETC IF NEW MAINS ARE RESTRAINED FOR THE ENTIRE LENGTH.

6. REFERENCE FIGURE A116-2 FOR VERTICAL PIPELINE SEPARATION REQUIREMENTS.

7. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

8. ADDITIONAL SEPARATION SHALL BE REQUIRED BY UTILITIES FOR CONSTRUCTION OF, INCLUDING, BUT NOT LIMITED TO: LIVE LOADS, MULTI-STORY COMMERCIAL BUILDINGS, SUPERSTRUCTURES, EMBANKMENTS, RETAINING WALLS, BRIDGES, RAILROADS, HIGH VOLTAGE TRANSMISSION MAINS, GAS MAINS, ETC.

ORANGE COUNTY UTILITIES

STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A116-1

10/10/2021

FINISHED GRADE

TRENCH WIDTH VARIES W/ PIPE SIZE

COMMON FILL

SELECT COMMON FILL

BEDDING MATERIAL (SEE NOTE 10)

UNDISTURBED EARTH

PIPE O.D.

12" (TYP)

12" LIFTS MAX

TRENCH BACKFILL (SEE NOTE 2)

INITIAL BACKFILL (SEE NOTE 1)

HAUNCHING (SEE NOTE 8)

BEDDING (SEE NOTES 9 & 10)

MIN 24" WATER LEVEL (SEE NOTE 5)

NOTES:

1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL IN ACCORDANCE WITH "TYPE B" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
4. 15-IN MAX. (12-IN MIN.) FOR PIPE DIAMETER BETWEEN 24-IN AND 24-IN MAX. (12-IN MIN) FOR PIPE DIAMETER 24-IN AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATERING AS REQUIRED.
6. ALL PIPE SHALL BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. FOR GRAVITY SEWER, THE FIRST LIFT SHALL BE PLACED TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND TAMP.
9. BEDDING DEPTH SHALL BE 4-IN MINIMUM FOR PIPE DIAMETER UP TO 12-IN AND 6-IN MINIMUM FOR PIPE DIAMETER 16-IN AND LARGER.
10. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF REQUIRED BEDDING MATERIAL BELOW THE PIPE. UTILITIES SHALL DETERMINE REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION IN THE FIELD.

The diagram illustrates the cross-section of a trench bedding installation. A central pipe is shown with its outer diameter labeled "PIPE O.D.". The trench width is indicated as "TRENCH WIDTH VARIES W/ PIPE SIZE". The trench walls are sloped at a ratio of 1 vertical to 1.5 horizontal. The top of the trench is at "FINISHED GRADE". The bottom of the trench is labeled "MIN 24\" WATER LEVEL (SEE NOTE 5)". The trench is filled with "COMMON FILL" (labeled "SELECT COMMON FILL" and "UNDISTURBED EARTH (SEE NOTE 3)"). The trench backfill is labeled "INITIAL BACKFILL" and "HAUNCHING (SEE NOTE 8)". The trench depth is labeled "12' (TYP)" and "12' LIFTS MAXIMUM (SEE NOTE 2)". The trench length is labeled "(SEE NOTE 4)".

NOTES:

1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL IN ACCORDANCE WITH "TYPE B" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
4. 15-IN MAX. (12-IN MIN.) FOR PIPE DIAMETER LESS THAN 24-IN AND 24-IN MAX (12-IN MIN) FOR PIPE DIAMETER 24-IN AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATERING AS REQUIRED.
6. ALL PIPE SHALL BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. FOR GRAVITY SEWER, THE FIRST LIFT SHALL BE PLACED TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND TAMP.
9. CONTRACTOR SHALL USE BEDDING AND TRENCHING - TYPE B DETAIL FOR OVER EXCAVATION AND WHEN UNSUITABLE MATERIALS ARE ENCOUNTERED IN THE EXCAVATION.

FIGURE A101

STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

10/10/2021

STANDARD ROADWAY OPENCUT DETAIL

VARIABLES: VARIES (on both sides)

Labels in diagram:

- MIN 1" MILL & RESURFACE TO EXISTING (TYP)
- FINAL ASPHALT MIN 2" OR MATCH EXISTING (WHICHEVER IS GREATER)
- SAWCUT (TYP)
- 2'-0" MIN (width of top layer)
- UNDISTURBED EARTH
- MIN PIPE DEPTH PER SECTION 2210 OR 2311
- MIN 8" THICK 3,000 PSI HIGH EARLY STRENGTH CONCRETE
- SUBGRADE (COMPACTED TO 98% MAX DENSITY)
- TRENCH WIDTH = PIPE DIAMETER + 2'-0" (MIN)

NOTES:

1. LONGITUDINAL CUTS SHALL REQUIRE OVERLAY/RESURFACE OF THE COMPLETE WIDTH OF THE TRAVELED WAY.
2. CUTS AT AN INTERSECTION OF STREETS SHALL REQUIRE A COMPLETE OVERLAY/RESURFACING TO THE END OF ALL RETURN RADII AND ALSO TO A POINT TEN (10) FEET BEYOND THE CUT, WHICHEVER IS GREATER.
3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT AND DRAWINGS.
4. BASE REPLACEMENT SHALL BE 8-IN THICK 3,000 PSI HIGH EARLY STRENGTH CONCRETE.
5. ASPHALT CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT EXISTED AT THE TIME OF REMOVAL, OR AS APPROVED BY THE COUNTY PUBLIC WORKS DEPARTMENT.
6. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY THICKNESS SHALL BE 1-IN OR AS APPROVED BY THE COUNTY ENGINEER/ FDOT.
7. ALL JOINT CUTS SHALL BE MECHANICALLY SAW CUT.
8. IF PERMANENT ASPHALT IS NOT APPLIED WITHIN 24-HRS OF WORK, MIN 2" TEMPORARY COLD PATCH REQUIRED.
9. SUB-GRADE TO BE COMPACTED TO 98% MIN DENSITY AS DETERMINED BY AASHTO T-180. CUT TO BE REPLACED WITH 3,000 PSI HIGH EARLY STRENGTH CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED THE DAY OF THE POUR. EXISTING SURFACE TO BE SAW CUT A MINIMUM 5-FT BEYOND BASE CUT.

ORANGE COUNTY UTILITIES

STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A124

10/10/2021

A circular professional engineer seal for Gregory T. Chatelain. The outer ring contains the text "GREGORY T. CHATELAIN" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the word "LICENSE" at the top, "No. 90573" in the center, a star below the number, and "STATE OF FLORIDA" at the bottom.

This item has been electronically signed and sealed by Gregory T. Chatelain, PE on the time & date stamp shown using digital signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Digitally
signed by
Gregory T
Chatelain
Date:
2026.01.30
14:36:52
-05'00'

APOPKA VET CLINIC 132 & 124 W. MAIN STREET APOPKA, FL 32703 ORANGE COUNTY FLORIDA		ORANGE COUNTY DETAILS		SCALE: AS NOTED DESIGNED BY CC DRAWN BY CC CHECKED BY GTC		DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573 SEAL				NO. REVISIONS DATE BY	
DATE 1/26		PROJECT NO. 33-100-25		SHEET NUMBER C11							

City of Apopka, FL

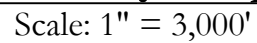
THE SOUTH 1/2 OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, SECTION, 22, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LESS EXCEPT THE EAST 33 FEET FOR ROAD RIGHT OF WAY AS SET FORTH IN THAT CERTAIN DEED RECORDED IN DEED BOOK 338, PAGE 19, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

LOCATED IN THE CITY OF APOPKAS'S RTF ZONING DISTRICT, THE SHEELER PARK PROJECT IS A PROPOSED SINGLE FAMILY DEVELOPMENT. THIS MASTER DEVELOPMENT PLAN IS FOR A SINGLE PHASE AND INCLUDES 115 SINGLE FAMILY LOTS WITH ASSOCIATED PARKS, OPEN SPACE, STREETS, DRAINS AND UTILITIES NECESSARY TO SUPPORT THE DEVELOPMENT.

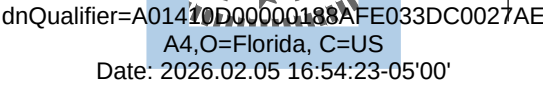
KB Home Orlando, LLC
9102 Southpark Center Loop, Suite #100
Orlando, FL 32819

	<u>Date</u>	<u>Description</u>
-	10/13/2025	Submit To City Of Apopka
-	12/4/2025	Respond To City Comments
-	2/5/2026	Respond To City Comments

TMC Traffic & Mobility Consultants
3101 Maguire Boulevard, Suite 265
Orlando, FL 32803
407.531.5332



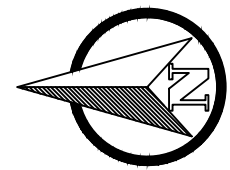
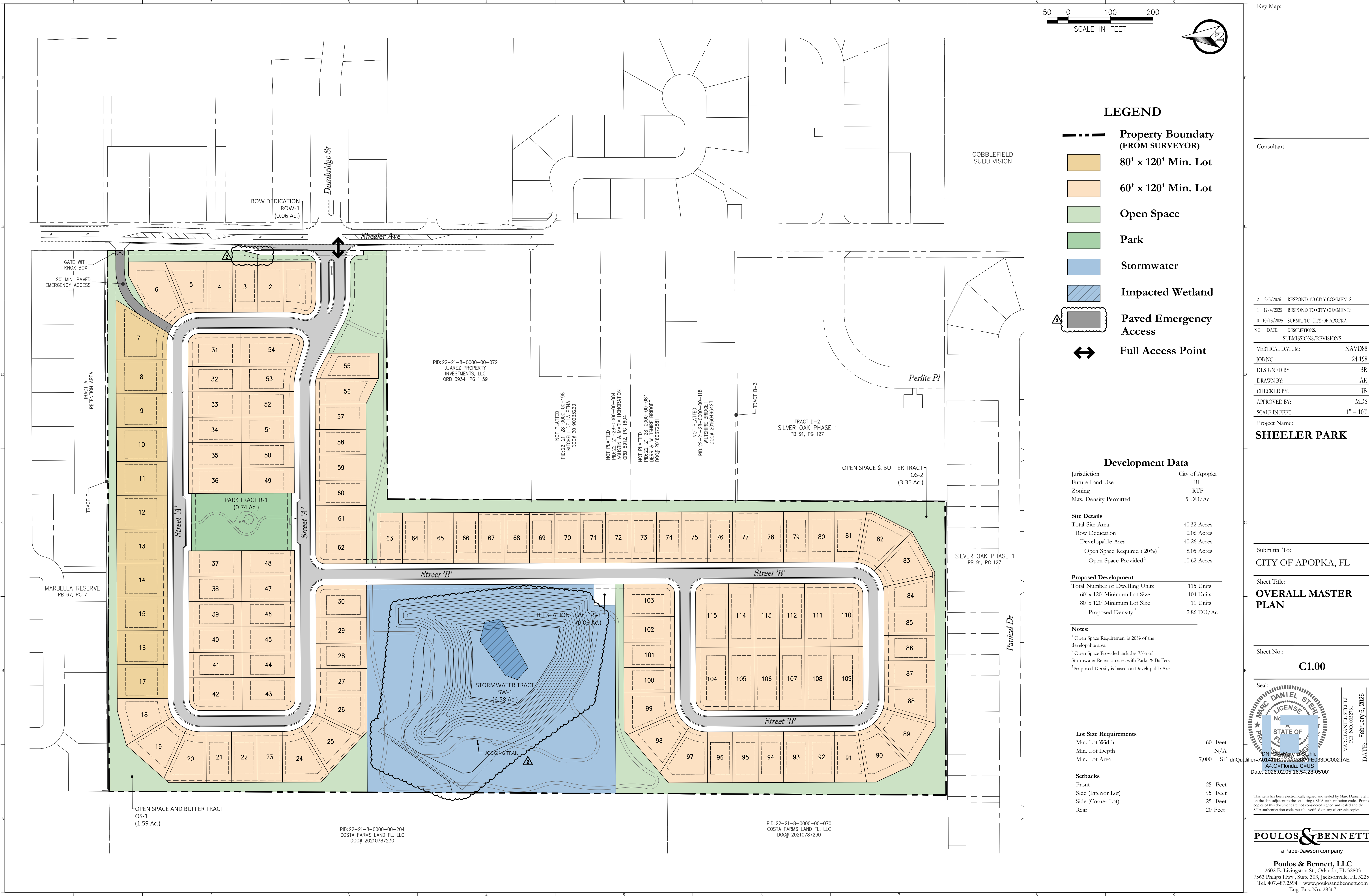
Major Development Plan for Sheeler Park



This item has been electronically signed and sealed using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567
P&B Job No.: 24-198

Date: Feb 05, 2026, 12:58pm User: JD: gillitrew
File: P:\35122\01\Design\DWG\MSPT352201.dwg



- LEGEND**
- Property Boundary (FROM SURVEYOR)
 - 80' x 120' Min. Lot
 - 60' x 120' Min. Lot
 - Open Space
 - Park
 - Stormwater
 - Impacted Wetland
 - Paved Emergency Access
 - Full Access Point

Development Data	
Jurisdiction	City of Apopka
Future Land Use	RL
Zoning	RTF
Max. Density Permitted	5 DU/Ac

Site Details	
Total Site Area	40.32 Acres
Row Dedication	0.06 Acres
Developable Area	40.26 Acres
Open Space Required (20%) ¹	8.05 Acres
Open Space Provided ²	10.62 Acres

Proposed Development	
Total Number of Dwelling Units	115 Units
60' x 120' Minimum Lot Size	104 Units
80' x 120' Minimum Lot Size	11 Units
Proposed Density ³	2.86 DU/Ac

Notes:

¹ Open Space Requirement is 20% of the developable area.

² Open Space Provided includes 75% of Stormwater Retention area with Parks & Buffers

³ Proposed Density is based on Developable Area

Lot Size Requirements	
Min. Lot Width	60 Feet
Min. Lot Depth	N/A
Min. Lot Area	7,000 SF

Setbacks	
Front	25 Feet
Side (Interior Lot)	7.5 Feet
Side (Corner Lot)	25 Feet
Rear	20 Feet

Key Map:

Consultant:

2	2/5/2026	RESPOND TO CITY COMMENTS
1	12/4/2025	RESPOND TO CITY COMMENTS
0	10/13/2025	SUBMIT TO CITY OF APOPKA
NO.	DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:	NAVD88	
JOB NO.:	24-198	
DESIGNED BY:	BR	
DRAWN BY:	AR	
CHECKED BY:	JB	
APPROVED BY:	MDS	
SCALE IN FEET:	1" = 100'	
Project Name:	SHEELER PARK	

Submitted To:
CITY OF APOPKA, FL

Sheet Title:
OVERALL MASTER PLAN

Sheet No.:
C1.00

Seal:
MARC DANIEL STEHLI
LICENSE
No. 0652781
STATE OF FLORIDA
Professional Engineer
Date: 2026.02.05 16:54:28-0500'

This item has been electronically signed and sealed by Marc Daniel Stehli on the date adjacent to the seal using a SFA authentication code. Printed copies of this document are not considered signed and sealed and the SFA authentication code must be verified on any electronic copies.

POULOS & BENNETT
a Pape-Dawson company
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
7563 Philips Hwy., Suite 303, Jacksonville, FL 32256
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Date: Fri, 05, 2026, 12:56pm User ID: gylidkrew
File: P:\35\22\01\Design\DWG\SDT\3622-01.dwg

OWNERSHIP / MAINTENANCE		
ROADWAYS	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
DRAINAGE TRACTS	PRIVATE	TO BE OWNED AND MAINTAINED BY THE CDD OR HOA WITH EASEMENT DEDICATED TO CITY OF APOPKA FOR MAINTENANCE.
DRAINAGE EASEMENTS (D.E)	PUBLIC	TO BE DEDICATED TO CDD OR HOA. DRAINAGE FACILITIES WITHIN EASEMENTS ARE TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA.
PRIVATE DRAINAGE EASEMENTS (P.D.E)	PRIVATE	TO BE DEDICATED TO CDD OR HOA. DRAINAGE FACILITIES WITHIN EASEMENTS ARE TO BE OWNED AND MAINTAINED BY THE CDD OR HOA.
UTILITY EASEMENTS	PUBLIC	TO BE DEDICATED TO THE CITY OF APOPKA. UTILITIES WITHIN THE EASEMENTS ARE TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA.
WATER, RECLAIMED WATER AND SANITARY SEWER UTILITIES	PUBLIC	TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA UP TO METERS/CLEAN-OUTS
LIFT STATION TRACTS	PUBLIC	TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA
PARK/OPEN SPACE TRACTS	PRIVATE	TO BE OWNED AND MAINTAINED BY THE CDD OR HOA
SIDEWALKS IN RIGHT OF WAY	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
STORMWATER & STREET LIGHTING	PUBLIC	AN MSBU WILL BE ESTABLISHED FOR ROUTINE MAINTENANCE OF STORMWATER SYSTEM FUNCTIONALITY AND STANDARD OPERATION MAINTENANCE OF STREET LIGHTING
SIDEWALK EASEMENTS	PUBLIC	TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA
STREET TREES IN PUBLIC ROW	PRIVATE	TO BE OWNED AND MAINTAINED BY HOA/CDD
RETAINING WALLS	PRIVATE	TO BE OWNED AND MAINTAINED BY THE HOA
PARKING SPACE STRIPING IN PUBLIC ROW	PRIVATE	TO BE OWNED AND MAINTAINED BY THE HOA

MISCELLANEOUS

POTABLE WATER SERVICE	CITY OF APOPKA
RECLAIMED WATER SERVICE	CITY OF APOPKA
WASTEWATER SERVICE	CITY OF APOPKA
ELECTRIC SERVICE	DUKE ENERGY
FIRE PROTECTION	CITY OF APOPKA

DRAINAGE TRACT

TRACT ID	ACREAGE
SW-1	6.58

OPEN SPACE TRACTS

TRACT ID	ACREAGE
OS-1	1.59
OS-2	3.35
TOTAL	4.94

UNITS COUNT

TYPE	COUNT	ACRES
60X120	104	19.58
80X120	11	2.49
TOTAL	115	22.07

ROW DEDICATION

TRACT ID	ACREAGE
ROW-1	0.06

DEVELOPMENT STANDARDS

MIN. LIVING AREA	1,500 SF
MIN. BUILDING HEIGHT	N/A
MAX. BUILDING HEIGHT	35 FT
MIN. ADDITIONAL FLOOR HEIGHT	N/A
MIN. FRONT/ STREET SIDE	25 FT
MAX. FRONT/ STREET SIDE	N/A
MIN. SIDE	SINGLE-FAMILY (INTERIOR LOT)-7.5 FT SINGLE-FAMILY (CORNER LOT)-25 FT
MIN. BUILDING SEPARATION	
MIN. REAR (ALLEY)	5 FT
MIN. REAR (NO ALLEY)	20 FT
DENSITY	
MIN. DENSITY	N/A
MAX. DENSITY	5 DU/AC
OPEN SPACE	
MIN. OPEN SPCE	20%

PHASING

SHEELER PARK WILL BE DEVELOPED IN A SINGLE PHASE

SIGNAGE

ONSITE SIGNAGE WILL BE IN ACCORDANCE WITH THE CITY OF APOPKA LAND DEVELOPMENT CODE SECTION 5.10-SIGNS.

LANDSCAPE

- LANDSCAPE MATERIALS WILL BE CHOSEN FROM THE FLORIDA FRIENDLY PLANT DATABASE (CENTRAL FLORIDA REGION).
- A TWENTY-FIVE (25) FOOT BUFFER IS PROVIDED ADJACENT TO SHEELER AVE. IN ACCORDANCE WITH THE CITY OF APOPKA LAND DEVELOPMENT CODE SEC. 5.2.5 - LANDSCAPING AND BUFFER STANDARDS.

GARBAGE PICKUP

FRONT LOADED SINGLE FAMILY UNITS TO BE PICKED UP AT FRONT RIGHT OF WAY. REAR LOADED UNITS TO BE PICKED UP AT REAR ALLEY.

PARKING REQUIREMENTS

OFF-STREET PARKING WILL BE PROVIDED IN ACCORDANCE WITH THE CITY OF APOPKA LAND DEVELOPMENT CODE SECTION 5.7, 6- OFF-STREET VEHICULAR PARKING SPACE STANDARDS.

STREET LIGHTING

LIGHTING PHOTOMETRIC PLAN WILL BE PROVIDED AT THE TIME OF CONSTRUCTION PLAN SUBMITTAL. LIGHTING REQUIREMENTS SHALL MEET ALL APPLICABLE CITY OF APOPKA AND ELECTRIC PROVIDERS REGULATIONS AT THE TIME OF ANY CONSTRUCTION PLAN SUBMITTAL AND ANY SUBSEQUENT APPROVALS

NOTIFICATION

THE HOMEOWNER'S ASSOCIATION COVENANTS AND RESTRICTIONS SHALL INCLUDE A STATEMENT NOTIFYING RESIDENTS OF THE PROJECT'S CLOSE PROXIMITY TO THE CITY OF APOPKA POLICE'S GUN RANGE LOCATED OFF OF EAST CLEVELAND STREET.

SUSTAINABILITY

Per LDC section 5.11.4.A.1.B, residential developments of 30 or more dwelling units shall obtain a minimum of 4 points from the green building point system, Table 5.11.4.B. this development shall satisfy this requirements as follows

GREEN BUILDING STANDARD	POINTS EARNED	NOTES
Use central air conditioners that are energy star qualified	0.50	All HVAC's installed on site will be energy star qualified
Use vegetation or vegetated structures to shade HVAC units	0.25	2 shrubs per A/C unit will be shown on the final landscape plans
Orient a minimum of 25 percent of residential dwelling units or lots in the development within 20 percent of east-west axis for maximum passive solar exposure	1.00	At least 29 lots (25%) are oriented east-west lots
Create a soil management plan for development site that promotes stormwater infiltration through improved organic matter content, reduced compaction levels, and increased infiltration capacity	0.50	The entire site is designed to drain to an on-site retention pond that will fully recover thought infiltration
Preserve large, non-exotic trees on site (large tree defined as 20 feet or greater in height and 24 inches or greater DBH)	1.00	A minimum of Large trees are being preserved. Please see landscape plans for the tree locations.
Install operable windows to allow for natural ventilation in the event of power failures	0.25	All windows will be operable
Elevate new and/or existing structures more than 3 feet above base flood elevation (BFE)	0.50	All structures will be constructed at least 3 feet above BFE
TOTAL	4.00	

(1) SEE LANDSCAPE PLAN SHEETS FOR IDENTIFICATION OF LARGE & NON-EXOTIC SPECIMEN TREES TO BE PRESERVED.

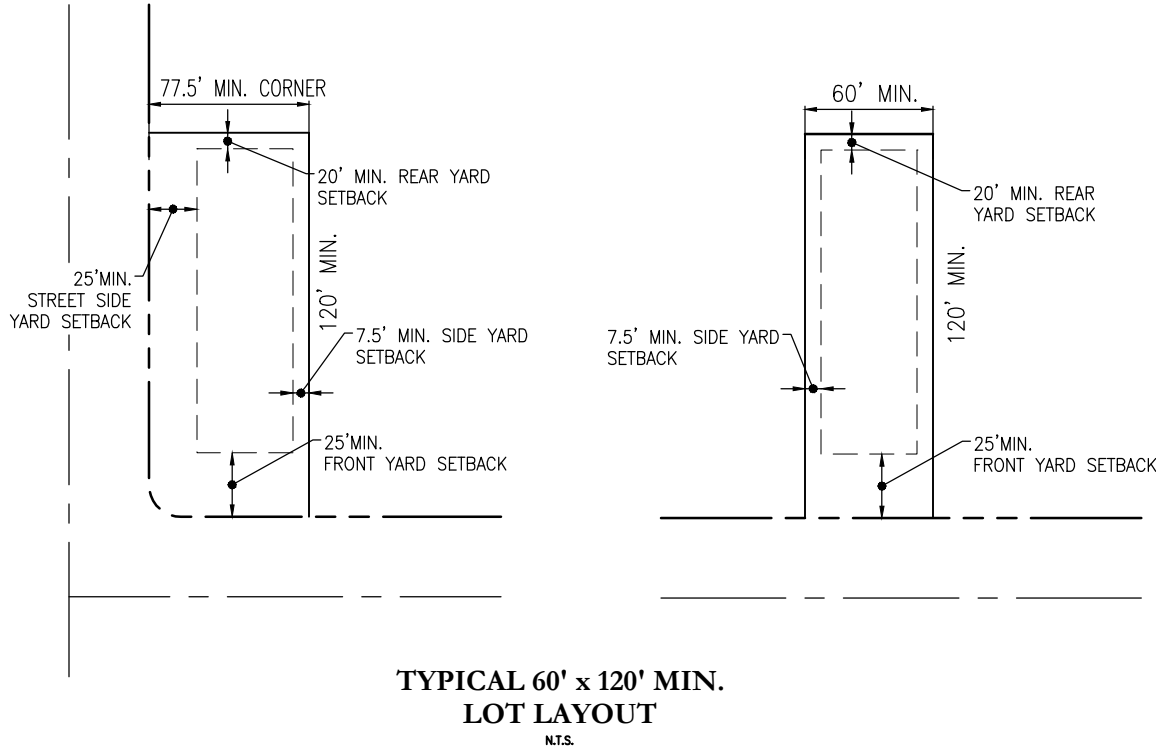
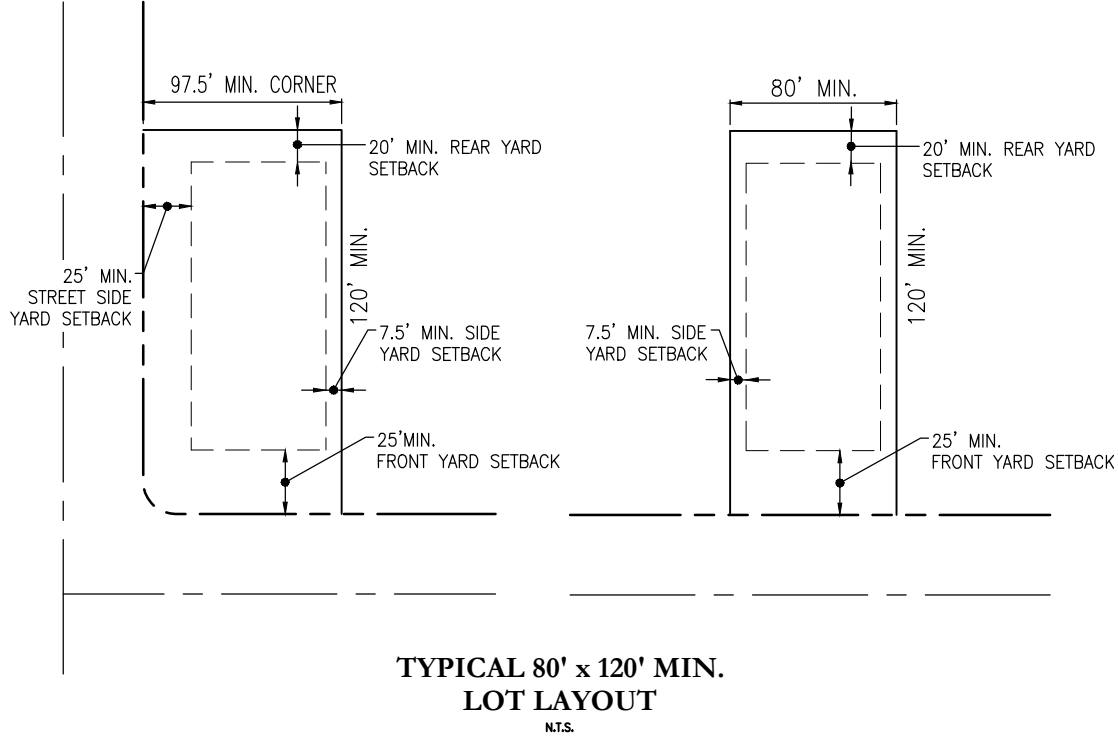
OPEN SPACE & PARK REQUIREMENTS

TOTAL SITE AREA	40.32 Ac.
ROW DEDICATION	0.06 Ac.
DEVELOPABLE AREA	40.26 Ac.
OPEN SPACE REQUIRED	8.05 Ac. (20.0%)
OPEN SPACE PROPOSED	10.62 Ac. (26.4%)
OPEN SPACE	4.94 Ac. (12.3%)
PARK	0.74 Ac. (1.8%)
DRAINAGE TRACT	4.94 Ac. (12.3%)

- OPEN SPACE REQUIREMENTS= 20%
- OPEN SPACE AND PARK TRACTS COUNT TOWARDS OPEN SPACE REQUIREMENTS
- PROPOSED OPEN SPACE ACREAGE INCLUDES THE MAXIMUM 75% (4.94 Ac.) OF TRACT SW-1 WHICH INCLUDES AN AMENITY TRAIL AS REQUIRED BY LDC SEC 5.4.

ACTIVE RECREATIONAL REQUIREMENTS

ACTIVE RECREATIONAL SPACE REQUIRED (35% OF REQUIRED OPEN SPACE)	2.82 Ac.
ACTIVE RECREATIONAL SPACE PROVIDED	8.25 Ac.
-PARK AREA	0.74 Ac. (9%)
-JOGGING TRAIL AREA	7.51 Ac. (91%)



TYPICAL LOTS
N.T.S.

STUDENT GENERATION TABLE

Use	Units	Generation Rate				
		ES	MS	HS	TOTAL RATE	STUDENTS
SINGLE FAMILY	115	0.178	0.094	0.133	0.405	47
						47

SOURCE: ORANGE COUNTY PUBLIC SCHOOLS STUDENT GENERATION RATES EFFECTIVE JUNE 22, 2021

NOTES

- LOT AREAS, EASEMENT LINES AND TRACT AREAS ON THE FINAL PLAT MAY VARY FROM THAT SHOWN DUE TO FINAL ENGINEERING DESIGN CRITERIA AND CONTRAINTS.
- THIS COMMUNITY IS NOT PROPOSED TO BE GATED. ALL RIGHTS OF WAY SHALL BE PUBLIC.
- PARKS SHALL HAVE ADEQUATE LIGHTING ON AUTOMATIC TIMERS WITHOUT PROJECTING A GLARE ONTO ADJACENT PROPERTIES.
- SIGNAGE SHALL BE IN ACCORDANCE WITH LDC SECTION 5.10 AND BE REVIEWED VIA THE BUILDING PERMIT REVIEW PROCESS.

SITE DATA

Site Information	
Parcel I.D.	22-21-28-0000-00-073 22-21-28-0000-00-227
Current Zoning	A-1
Current FLU	Residential Low
Proposed Zoning	RTF
Proposed Character District	
Land Summary (Acres)	
Gross Land Area	40.32 Acres
Wetland (Proposed for Impact)	0.99 Acres
Proposed Units	115 Units

Key Map:

Consultant:

2 2/5/2026 RESPOND TO CITY COMMENTS

1 12/4/2025 RESPOND TO CITY COMMENTS

0 10/13/2025 SUBMIT TO CITY OF APOPKA

NO. DATE DESCRIPTIONS

SUBMISSIONS/REVISIONS

VERTICAL DATUM: NAVD88

JOB NO.: 24-198

DESIGNED BY: BR

DRAWN BY: AR

CHECKED BY: JB

APPROVED BY: MDS

SCALE IN FEET: N.T.S.

Project Name:

SHEELER PARK

Submittal To:

CITY OF APOPKA, FL

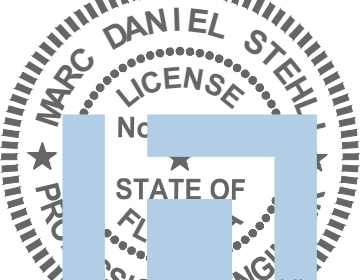
Sheet Title:

SITE DATA TABLE

Sheet No.:

C1.01

Seal:



DN: C=US, o=Pape-Dawson, ou=Engineering, cn=Marc Daniel Stehli, email=marc@pape-dawson.com

dnQualifier=A01470D00000A7E033DC0027AE

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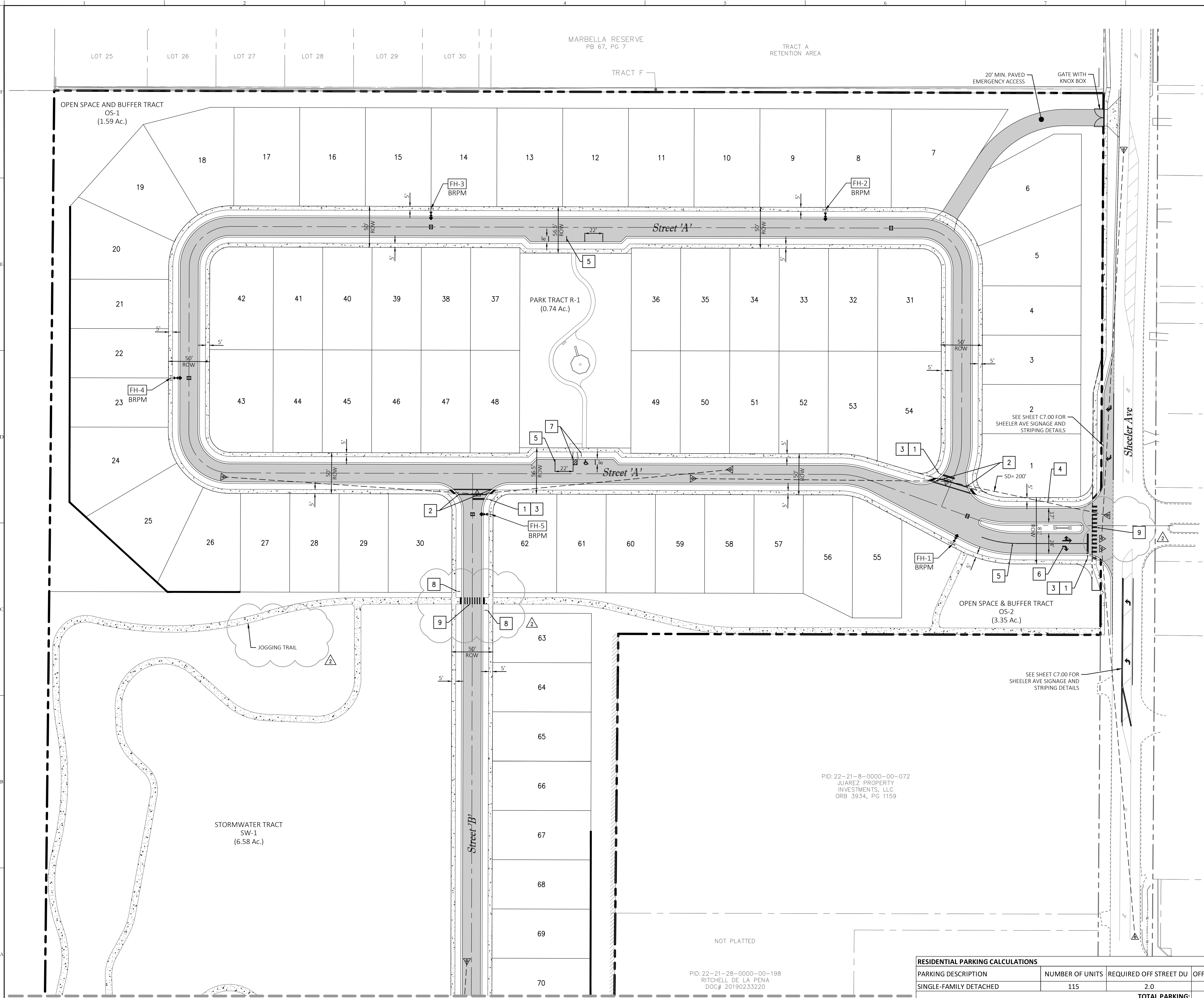
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Date: Feb 05, 2026, 12:22pm User: gillibrew
File: F:\35122\01\Design\DWG\35122-01.dwg



30 0 60 120
SCALE IN FEET

SIGN & STRIPING LEGEND:

1

30" STOP SIGN (R1-1) & 24" WHITE STOP BAR
PER FDOT INDEX NO. 700-010

2

SIDEWALK CROSSWALK, 6' PER FDOT INDEX
711-001

3

STREET NAME SIGN
(D3-1)

4

SPEED LIMIT SIGN (25 MPH)
(R2-1)

5

6" SOLID WHITE
PER FDOT INDEX NO. 711-001

6

TURN LANE ARROW PER FDOT
INDEX NO. 711-001

7

ACCESSIBLE PARKING SIGN & STRIPING
PER FDOT INDEX NO. 711-001

8

30" X 30" PEDESTRIAN CROSSING SIGN
(W11-2) W/ 24"X12" DOWNWARD POINTING
ARROW SIGN (W16-7P) PER MUTCD

9

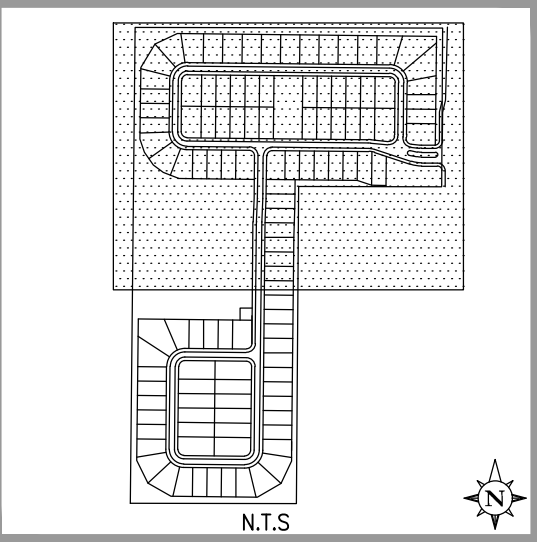
SPECIAL EMPHASIS CROSSWALK, 6' AND 8'
PER FDOT INDEX 711-001

- NOTES:**
- ALL STRIPING & SIGNAGE PER FDOT STANDARDS & SPECIFICATIONS MANUAL LATEST EDITION, MUTCD & CITY OF APOPKA ROAD CONSTRUCTION SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
 - ALL STRIPING SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
 - ALL PAVEMENT MARKINGS MUST COMPLY WITH FDOT INDEX 711-001.
 - SIGNS WILL NOT BE INSTALLED WITH CONCRETE.
 - FINAL SIGNAGE AND STRIPING PLANS WILL BE PREPARED WITH FINAL CONSTRUCTION PLANS.
 - HANDICAP (HC) RAMPS AND DETECTABLE WARNING SURFACE WILL BE CONSTRUCTED AT THE STREET INTERSECTION(S) AND DRIVEWAY CONNECTION(S) TO COMPLY WITH THE AMERICANS WITH DISABILITY ACT (ADA) AND WILL MEET FDOT DESIGN STANDARDS.
 - STREET SIGNS POSTS TO BE SQUARE GALVANIZED STEEL AND HOLES SHALL BE CORED. 2 INCH SQUARE GALVANIZED POLES SHALL BE PRE-SCORED OR QUICK PUNCH.
 - ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY SHALL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD AND CITY OF APOPKA CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS.
 - SIGHT DISTANCE FOR RESIDENTIAL STREETS IS 310', UNLESS OTHERWISE NOTED, PER F.D.O.T. GREENBOOK, CHAPTER 16 BASED ON 30 MPH DESIGN SPEED.
 - SIGHT DISTANCE FOR SHEELER AVE IS 475' PER THE F.D.O.T. DESIGN MANUAL, SECTION 212 BASED ON 40 MPH DESIGN SPEED FOR PASSENGER VEHICLES.

RESIDENTIAL PARKING CALCULATIONS				
PARKING DESCRIPTION	NUMBER OF UNITS	REQUIRED OFF STREET DU	OFF STREET REQUIRED	OFF STREET PROVIDED ⁽²⁾
SINGLE-FAMILY DETACHED	115	2.0	230	239
		TOTAL PARKING:	230	239

- ⁽¹⁾ Parking requirements per City of Apopka LDC, Section 5.1.6
⁽²⁾ All lots have a 2 car driveway providing two spaces per unit

Key Map:



Consultant:

2	2/5/2026	RESPOND TO CITY COMMENTS
1	12/4/2025	RESPOND TO CITY COMMENTS
0	10/13/2025	SUBMIT TO CITY OF APOPKA
NO. DATE DESCRIPTIONS		
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:		NAVD88
JOB NO.:		24-198
DESIGNED BY:		BR
DRAWN BY:		AR
CHECKED BY:		JB
APPROVED BY:		MDS
SCALE IN FEET:		1" = 60'

Project Name:
SHEELER PARK

Submitted To:
CITY OF APOPKA, FL

Sheet Title:
**SIGNAGE, STRIPING,
SIGHT DISTANCE &
PAVEMENT
MARKING PLAN**

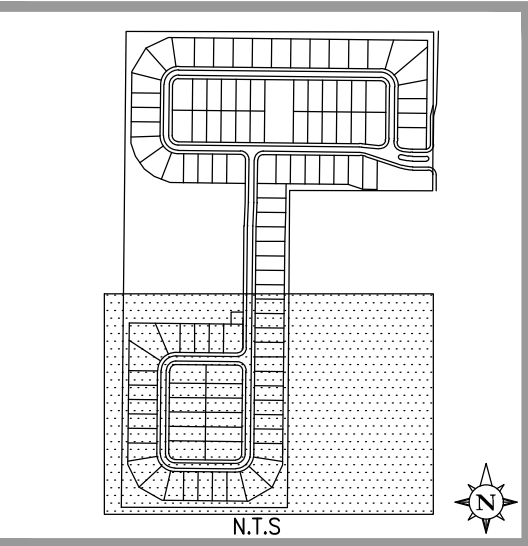
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Seal:

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Eng. Bus. No. 28567



Consultant:

SIGN & STRIPING LEGEND:

- 1 30" STOP SIGN (R1-1) & 24" WHITE STOP BAR
PER FDOT INDEX NO. 700-010
- 2 SIDEWALK CROSSWALK, 6' PER FDOT INDEX
711-001
- 3 STREET NAME SIGN
(D3-1)
- 4 SPEED LIMIT SIGN (25 MPH)
(R2-1)
- 5 6" SOLID WHITE
PER FDOT INDEX NO. 711-001
- 6 TURN LANE ARROW PER FDOT
INDEX NO. 711-001
- 7 ACCESSIBLE PARKING SIGN & STRIPING
PER FDOT INDEX NO. 711-001
- 8 30" X 30" PEDESTRIAN CROSSING SIGN
(W11-2) W/ 24"x12" DOWNWARD POINTING
ARROW SIGN (W16-7P) PER MUTCD
- 9 SPECIAL EMPHASIS CROSSWALK, 6' AND 8'
PER FDOT INDEX 711-001

NOTES:

1. ALL STRIPING & SIGNAGE PER FDOT STANDARDS & SPECIFICATIONS MANUAL LATEST EDITION, MUTCD & CITY OF APOPKA ROAD CONSTRUCTION SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
2. ALL STRIPING SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
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10. SIGN DISTANCE FOR SHEELER AVE IS 475' PER THE F.D.O.T. DESIGN MANUAL, SECTION 212 BASED ON 40 MPH DESIGN SPEED FOR PASSENGER VEHICLES.

2 2/5/2026 RESPOND TO CITY COMMENTS

1 12/4/2025 RESPOND TO CITY COMMENTS

0 10/13/2025 SUBMIT TO CITY OF APOPKA/

NO.	DATE:	DESCRIPTIONS
-----	-------	--------------

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD88
-----------------	--------

JOB NO.: 24-198

DESIGNED BY: BR

DRAWN BY: AR

CHECKED BY: _____ JB

APPROVED BY:	MDS
SCALE IN FEET	1" = 60'

Project Name: _____

SHEELER PARK

Submittal To:

CITY OF APOPKA, FL

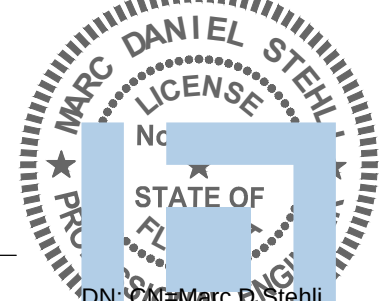
Sheet Title:

SIGNAGE, STRIPING, SIGHT DISTANCE & PAVEMENT MARKING PLAN

Sheet No.:

C2.11

Seal:



DN: CN=Marc D. Stehli,

A4 O=Florida, C=US

ate: 2026.02.05 16:54:33-05'00

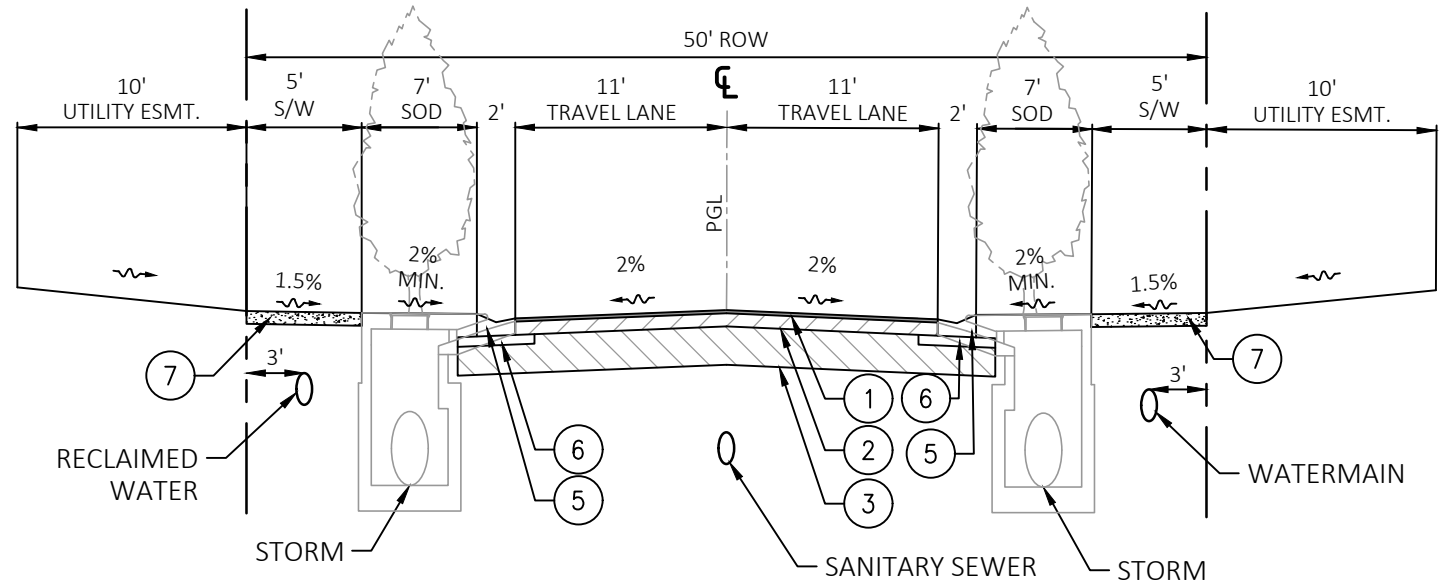
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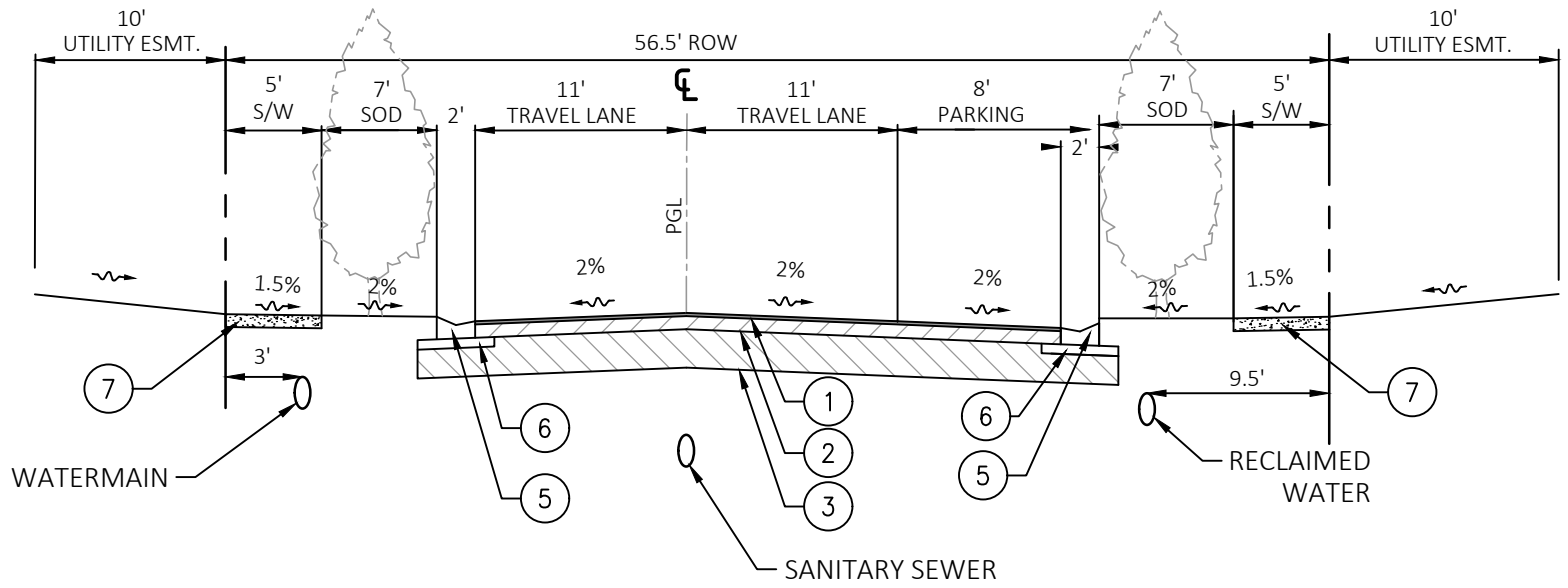
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7563 Philips Hwy., Suite 303, Jacksonville, FL 32256
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

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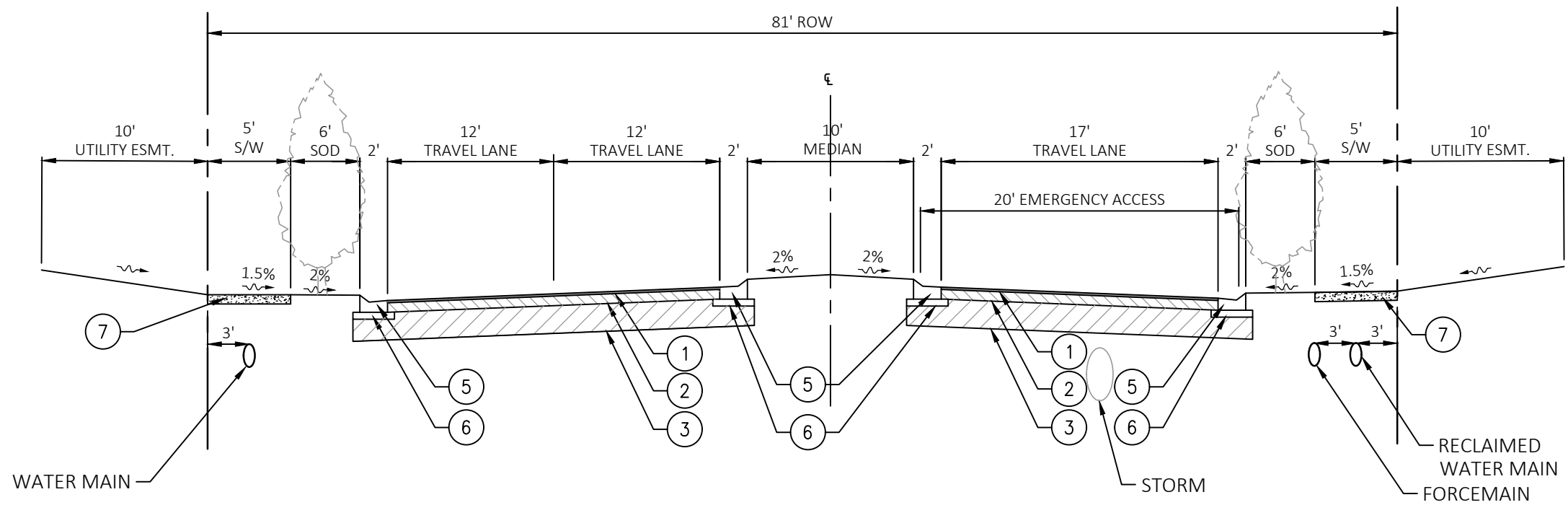
1 INTERNAL ROAD SECTION (50' ROW) N.T.S.

1. STREET TREES SHALL NOT BE ROOT AGGRESSIVE AND SHALL BE INSTALLED WITH ROOT BARRIERS TO PREVENT ROOTS FROM ADVERSELY AFFECTING UTILITIES, CURBS AND/OR SIDEWALK
2. HOA DOCUMENTS SHALL INDICATE THAT THE HOA IS RESPONSIBLE FOR MAINTENANCE OF STREET TREES



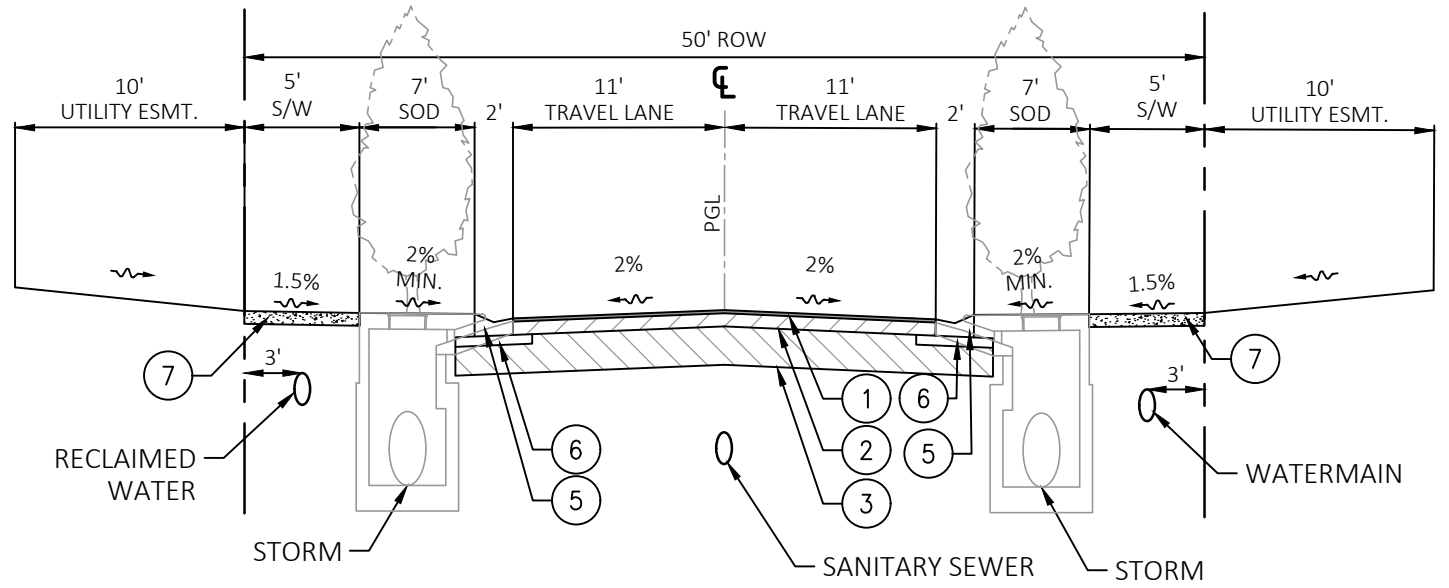
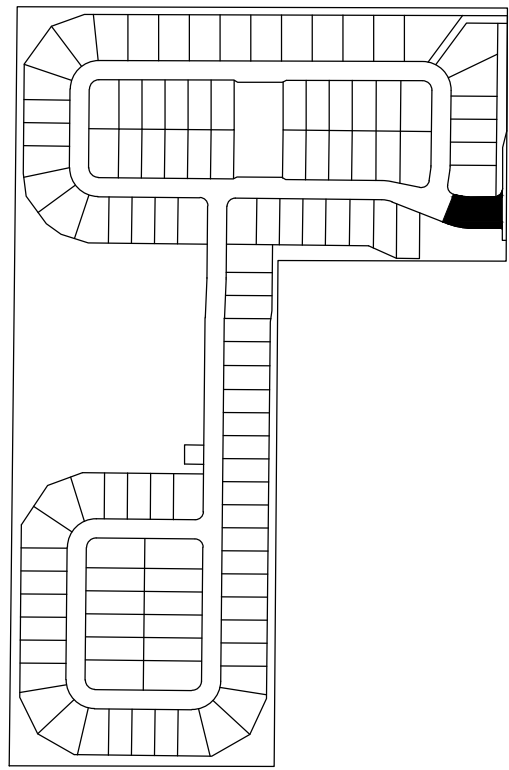
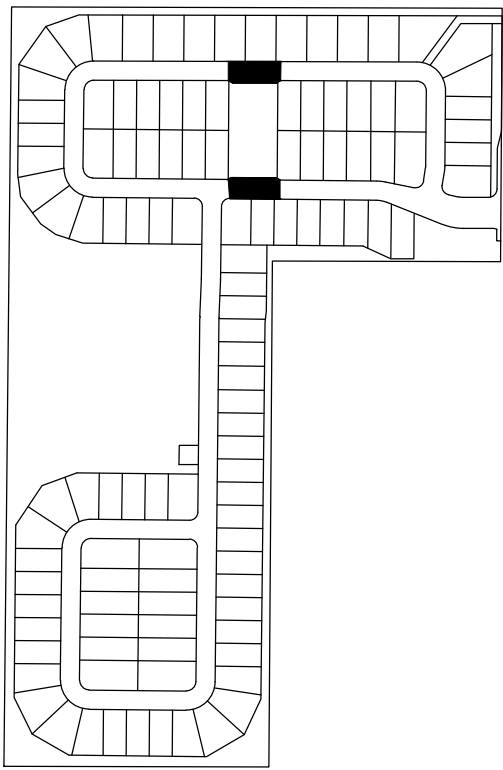
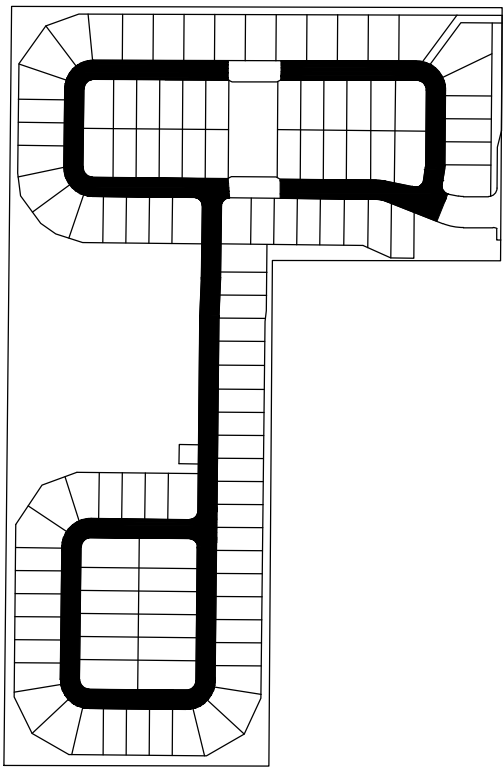
2 INTERNAL ROAD SECTION W/ PARKING (56.5' ROW) N.T.S.

1. STREET TREES SHALL NOT BE ROOT AGGRESSIVE AND SHALL BE INSTALLED WITH ROOT BARRIERS TO PREVENT ROOTS FROM ADVERSELY AFFECTING UTILITIES, CURBS AND/OR SIDEWALK
2. HOA DOCUMENTS SHALL INDICATE THAT THE HOA IS RESPONSIBLE FOR MAINTENANCE OF STREET TREES
3. PARKING SPACE STRIPING WITHIN CITY MAINTAINED PUBLIC RIGHT OF WAY SHALL BE MAINTAINED BY THE HOA



3 TYPICAL ROAD SECTION (81' ROW) N.T.S.

1. STREET TREES SHALL NOT BE ROOT AGGRESSIVE AND SHALL BE INSTALLED WITH ROOT BARRIERS TO PREVENT ROOTS FROM ADVERSELY AFFECTING UTILITIES, CURBS AND/OR SIDEWALK
2. HOA DOCUMENTS SHALL INDICATE THAT THE HOA IS RESPONSIBLE FOR MAINTENANCE OF STREET TREES



1 INTERNAL ROAD SECTION (50' ROW) N.T.S.

1. STREET TREES SHALL NOT BE ROOT AGGRESSIVE AND SHALL BE INSTALLED WITH ROOT BARRIERS TO PREVENT ROOTS FROM ADVERSELY AFFECTING UTILITIES, CURBS AND/OR SIDEWALK
2. HOA DOCUMENTS SHALL INDICATE THAT THE HOA IS RESPONSIBLE FOR MAINTENANCE OF STREET TREES

Legend	
1	ASPHALT
2	BASE COURSE
3	SUBGRADE
4	TYPE 'F' CURB
5	MIAMI CURB
6	CURB PAD
7	4" (IN.) THICK CONCRETE SIDEWALK

NOTE: FINAL PAVEMENT SECTIONS WILL BE DETERMINED AT TIME OF FINAL ENGINEERING DESIGN.

Key Map:

Consultant:

2 2/5/2026 RESPOND TO CITY COMMENTS

1 12/4/2025 RESPOND TO CITY COMMENTS

0 10/13/2025 SUBMIT TO CITY OF APOPKA

NO. DATE DESCRIPTIONS

SUBMISSIONS/REVISIONS

VERTICAL DATUM: NAVD88

JOB NO.: 24-198

DESIGNED BY: BR

DRAWN BY: AR

CHECKED BY: JB

APPROVED BY: MDS

SCALE IN FEET: N.T.S.

Project Name:

SHEELER PARK

Submittal To:

CITY OF APOPKA, FL

Sheet Title:

TYPICAL SECTIONS

Sheet No.:

C3.00

Seal:



DN: C=US, E=marc.d.stehli@poulosandbennett.com, OU=Poulos & Bennett, CN=Marc Daniel Stehli

A4: C=Florida, CN=US

Date: 2026.02.05 16:54:35-05'00'

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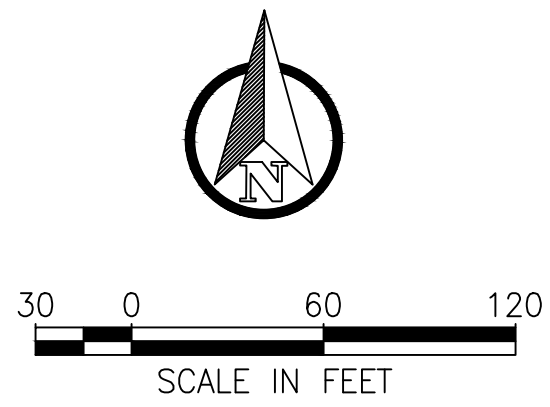
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2	2/5/2026	RESPOND TO CITY COMMENTS
1	12/4/2025	RESPOND TO CITY COMMENTS
0	10/13/2025	SUBMIT TO CITY OF APOPKA
NO.	DATE:	DESCRIPTIONS:
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:		NAVD88
JOB NO.:		24-198
DESIGNED BY:		BR
DRAWN BY:		AR
CHECKED BY:		JB
APPROVED BY:		MDS
SCALE IN FEET:		1" = 60'

Submittal To:
CITY OF APOPKA, FL

Sheet Title:
GEOMETRY PLAN

Seal:

MARC DANIEL STEHLIL
P.E. NO. 0052781

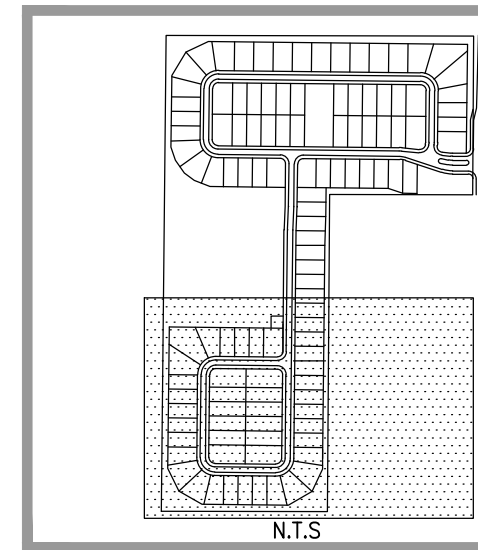
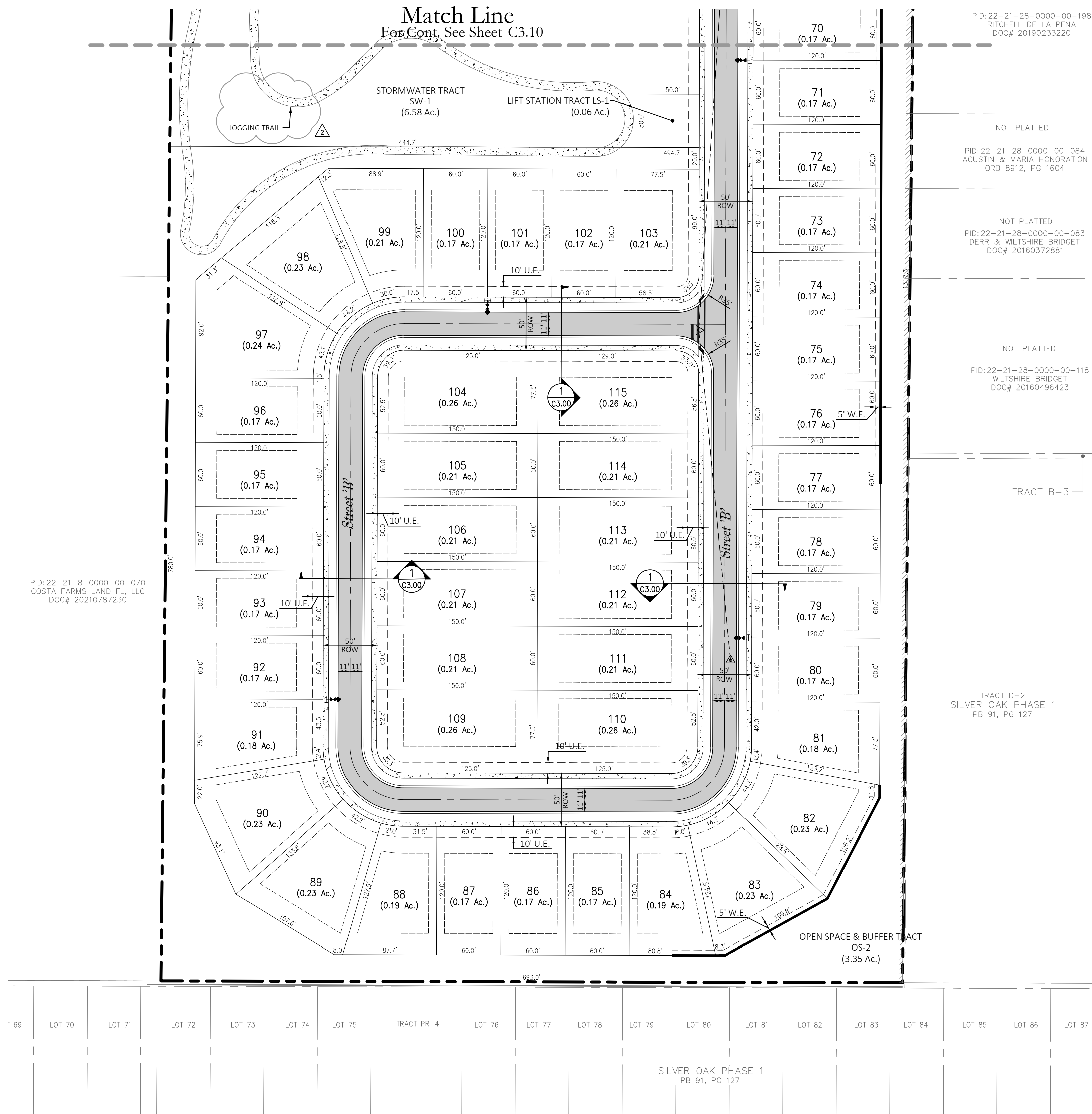
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Match Line
For Cont. See Sheet C3.11



2	2/5/2026	RESPOND TO CITY COMMENTS
1	12/4/2025	RESPOND TO CITY COMMENTS
0	10/13/2025	SUBMIT TO CITY OF APOPKA
NO. DATE:		DESCRIPTIONS:
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:		NAVD88
JOB NO.:		24-198
DESIGNED BY:		BR
DRAWN BY:		AR
CHECKED BY:		JB
APPROVED BY:		MDS
SCALE IN FEET:		1" = 60'

Submittal To:
CITY OF APOPKA, FL

Sheet Title:
GEOMETRY PLAN

Seal: 

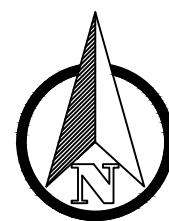
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P.E. NO. 0652784

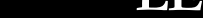
February 5, 2026

DATE:

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LEGEND	
	EXISTING GRADE CONTOURS
	POST-DEVELOPMENT BASIN LINES
	FLOW ARROW
	BASIN ID
	NODE ID

Consultant:

- | | | |
|-----------------------|------------|--------------------------|
| 2 | 2/5/2006 | RESPOND TO CITY COMMENTS |
| 1 | 12/4/2005 | RESPOND TO CITY COMMENTS |
| 0 | 10/13/2005 | SUBMIT TO CITY OF APOPKA |
| NO. DATE DESCRIPTIONS | | |
| SUBMISSIONS/REVISIONS | | |
| VERTICAL DATUM: | | NAVD88 |
| JOB NO.: | | 24-198 |
| DESIGNED BY: | | BR |
| DRAWN BY: | | AR |
| CHECKED BY: | | JB |
| APPROVED BY: | | MDS |
| SCALE IN FEET: | | 1" = 200' |

Submittal To:
CITY OF APOPKA, FL

Sheet Title:

**MASTER
STORMWATER PLAN**

Sheet No.: **C4.00**

Seal: 

DN: CN=Marc D Stehli,
o=A0147ED00000138FAFE03DC0027AE
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Date: 2026.02.05 16:54:40-0500'

MARC DANIEL STEHLI
P.E. NO. 052781

February 5, 2026

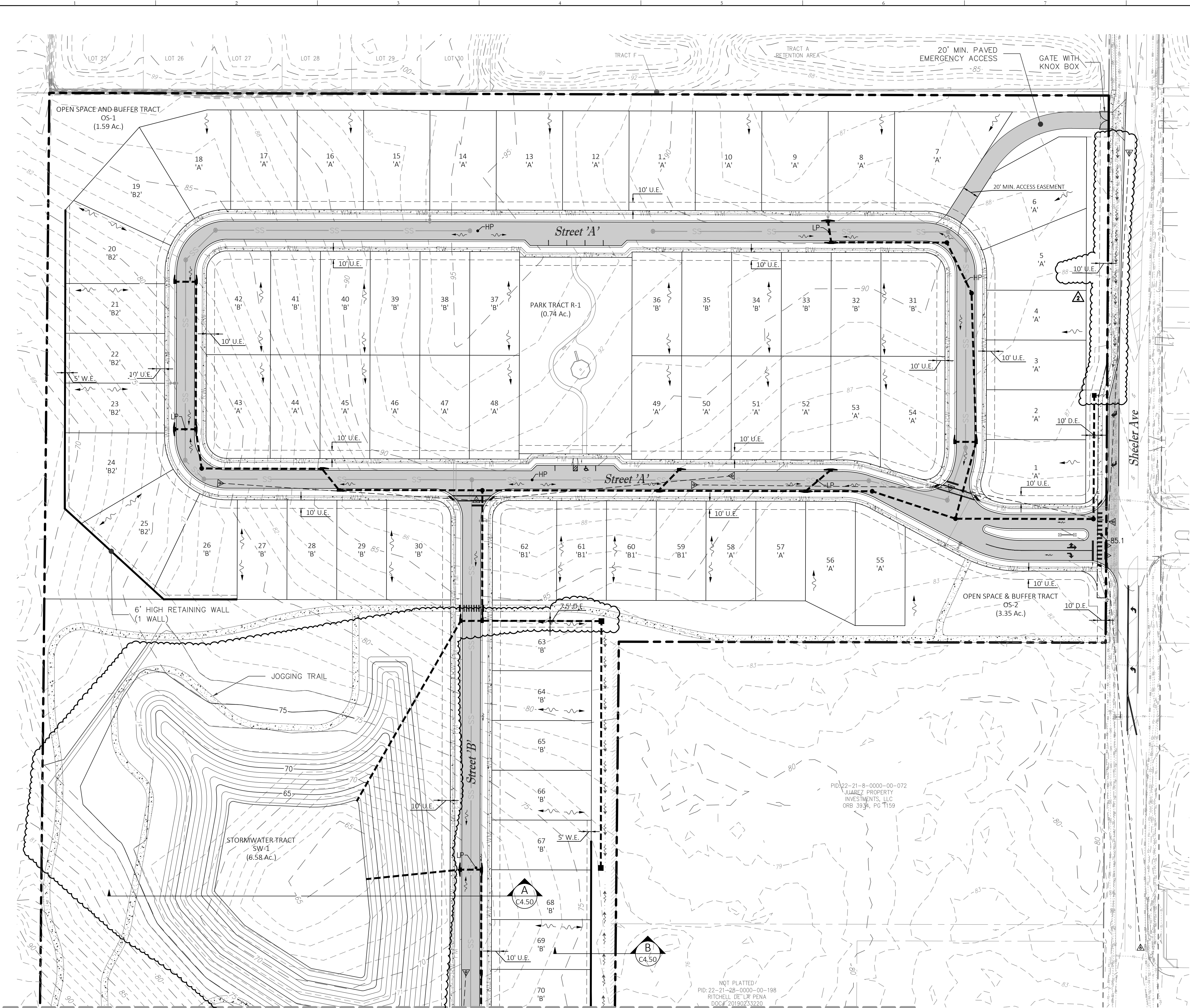
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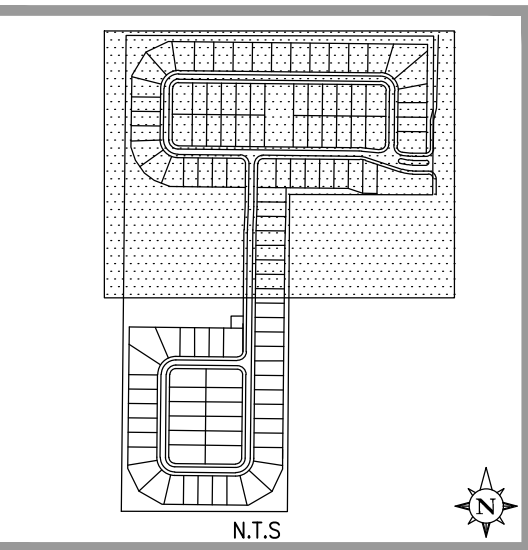


30 0 60 120
SCALE IN FEET

Drainage Legend		
Existing	Utility Type	Proposed
	STORM PIPE	
	STORM MANHOLE	
	STORM CURB INLETS	
	MITERED END	
	DRAINAGE FLOW ARROW	

Grading Legend	
Symbol	Description
	EXISTING SPOT GRADE
	PROPOSED SPOT GRADE
	PROPOSED SWALE/DITCH FLOW LINE ELEV.
	FLOW ARROW
	DRAINAGE CONVEYANCE SWALE
	EXISTING CONTOUR
	PROPOSED CONTOUR

Key Map:



Consultant:

2	2/5/2026	RESPOND TO CITY COMMENTS
1	12/4/2025	RESPOND TO CITY COMMENTS
0	10/13/2025	SUBMIT TO CITY OF APOPKA
NO.	DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:		NAVD88
JOB NO.:		24-198
DESIGNED BY:		BR
DRAWN BY:		AR
CHECKED BY:		JB
APPROVED BY:		MDS
SCALE IN FEET:		1" = 60'

Project Name:
SHEELER PARK

Submitted To:
CITY OF APOPKA, FL

Sheet Title:
**GRADING &
DRAINAGE PLAN**

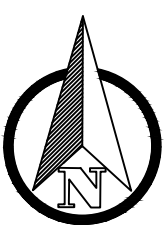
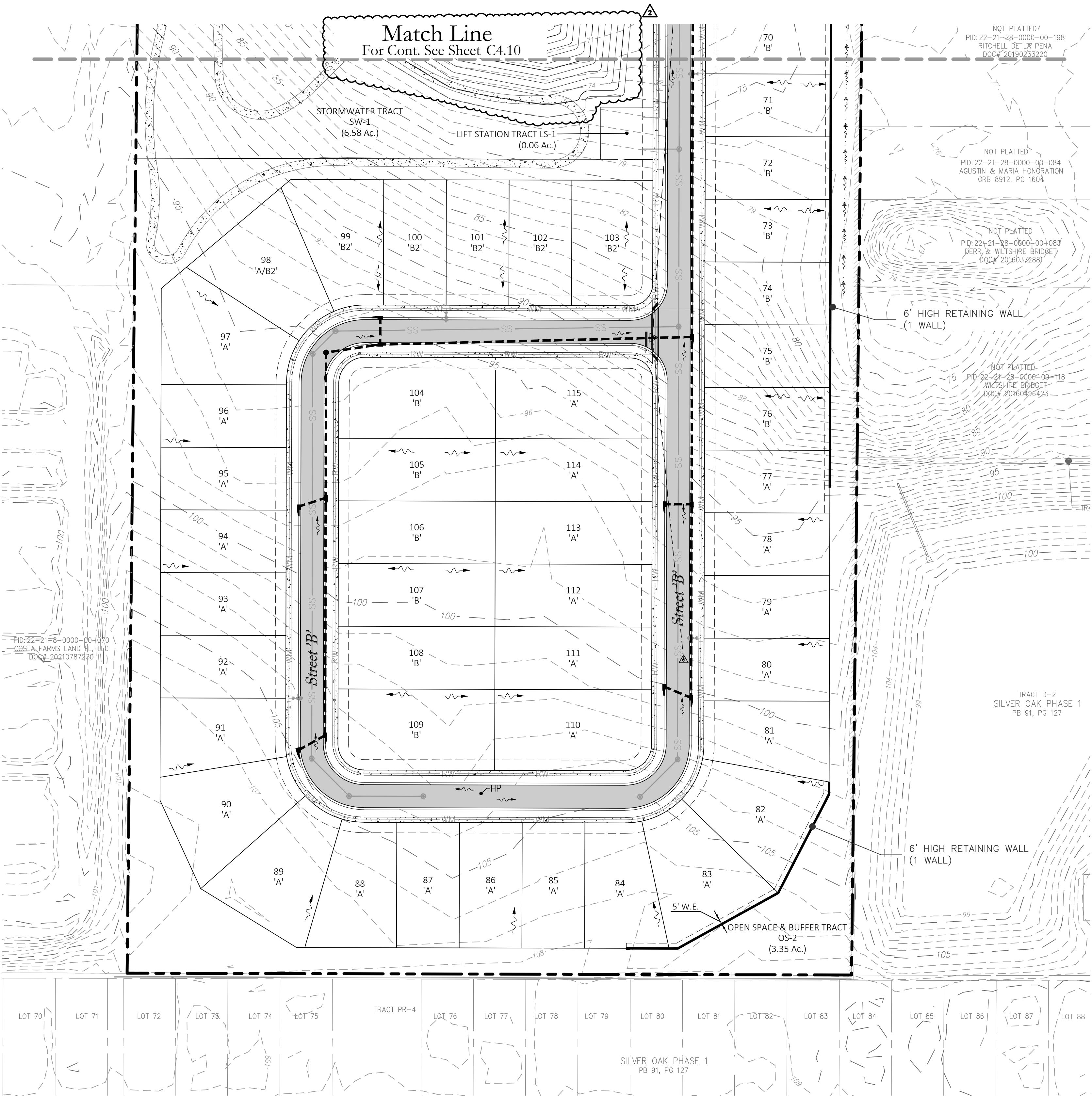
Sheet No.:
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Seal:

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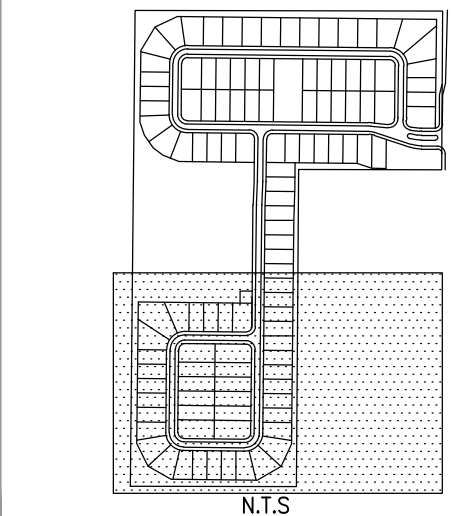
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Date: Fri, 05, 2026, 12:33pm User: JD: gillidrew
File: P:\35\22\01\Design\DWG\1562201.dwg



Drainage Legend		
Existing	Utility Type	Proposed
	STORM PIPE	
	STORM MANHOLE	
	STORM CURB INLETS	
	MITERED END	
	DRAINAGE FLOW ARROW	
Grading Legend		
Symbol	Description	
× 100.00 EX	EXISTING SPOT GRADE	
× 104.00	PROPOSED SPOT GRADE	
× 101.00 FL	PROPOSED SWALE/DITCH FLOW LINE ELEV.	
	FLOW ARROW	
	DRAINAGE CONVEYANCE SWALE	
— 74 —	EXISTING CONTOUR	
— 74 —	PROPOSED CONTOUR	

Key Map:



Consultant:

2 2/5/2026 RESPOND TO CITY COMMENTS

1 12/4/2025 RESPOND TO CITY COMMENTS

0 10/13/2025 SUBMIT TO CITY OF APOKA

NO. DATE DESCRIPTIONS

SUBMISSIONS/REVISIONS

VERTICAL DATUM: NAVD88

JOB NO.: 24-198

DESIGNED BY: BR

DRAWN BY: AR

CHECKED BY: JB

APPROVED BY: MDS

SCALE IN FEET: 1" = 60'

Project Name:

SHEELER PARK

Submittal To:

CITY OF APOKA, FL

Sheet Title:

**GRADING &
DRAINAGE PLAN**

Sheet No.:

C4.11

Seal:



DN: C:\Marc D Stehli

A4: C:\Florida, C:\US

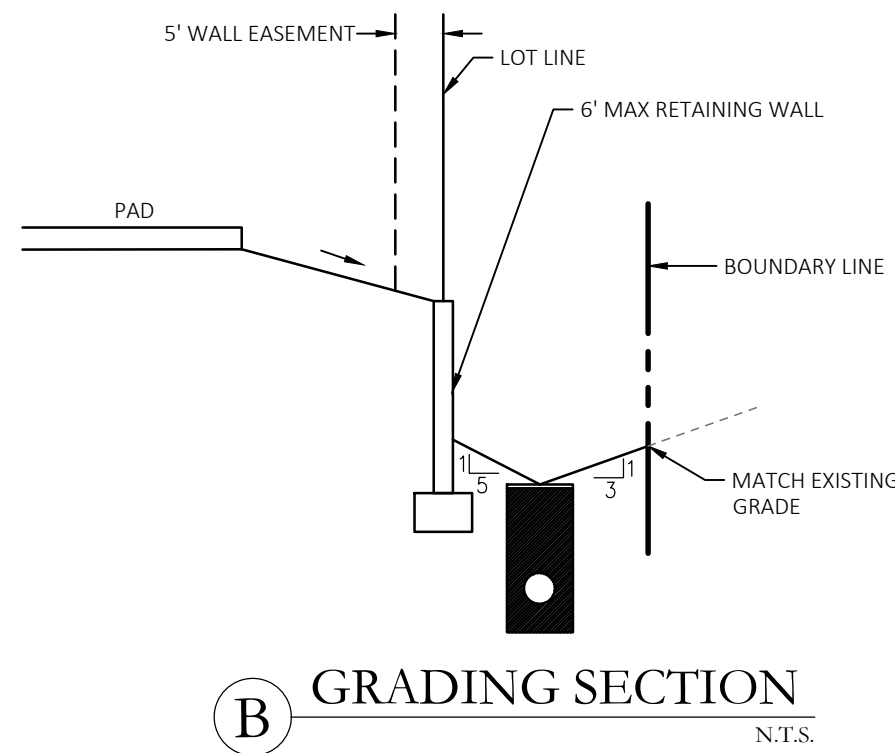
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Project Name: **SHEELER PARK**

Sheet Title:

**GRADING SECTIONS
& DETAILS**

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MARC DANIEL STEHLI
P.E. NO. 0052781

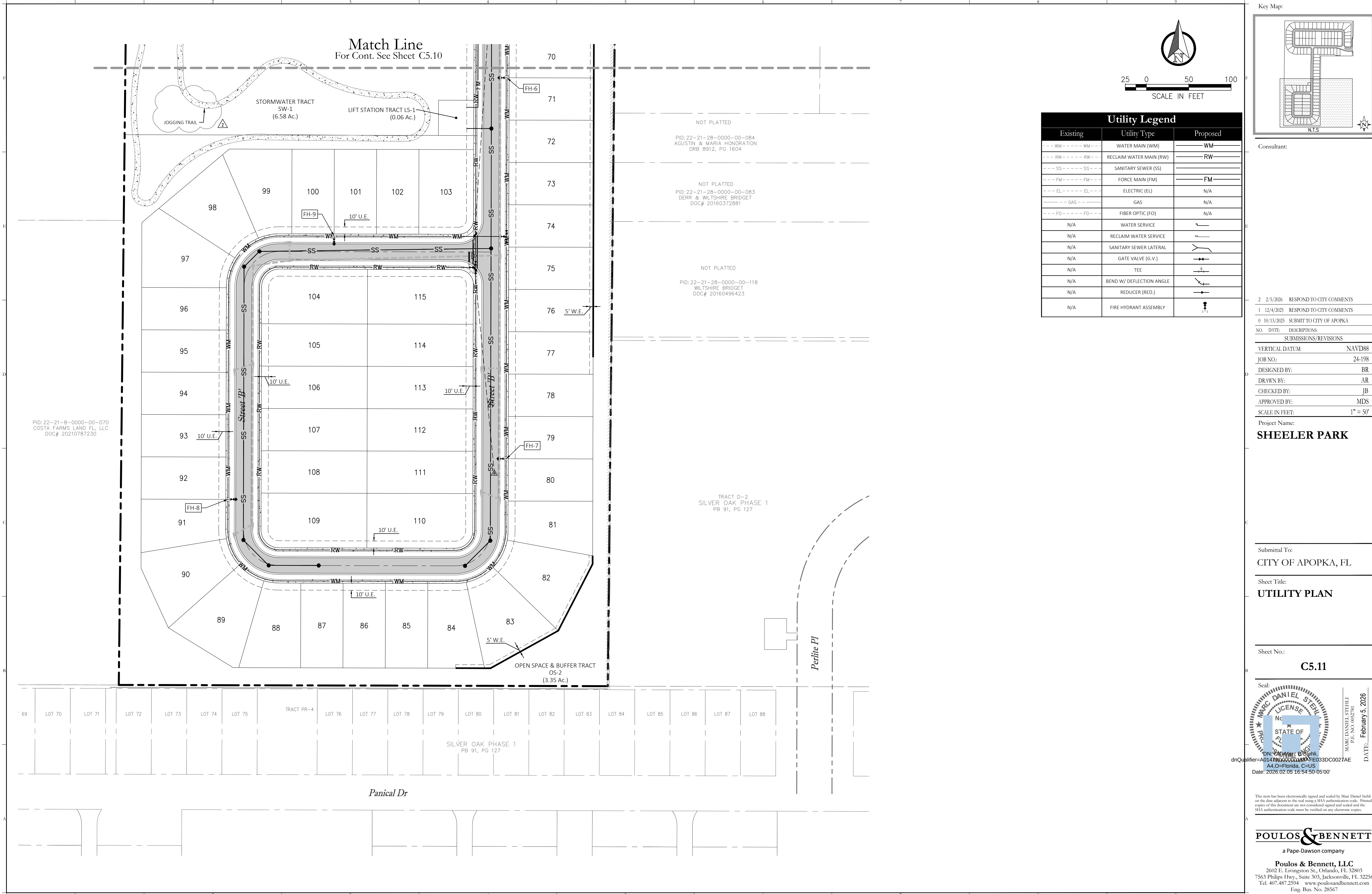
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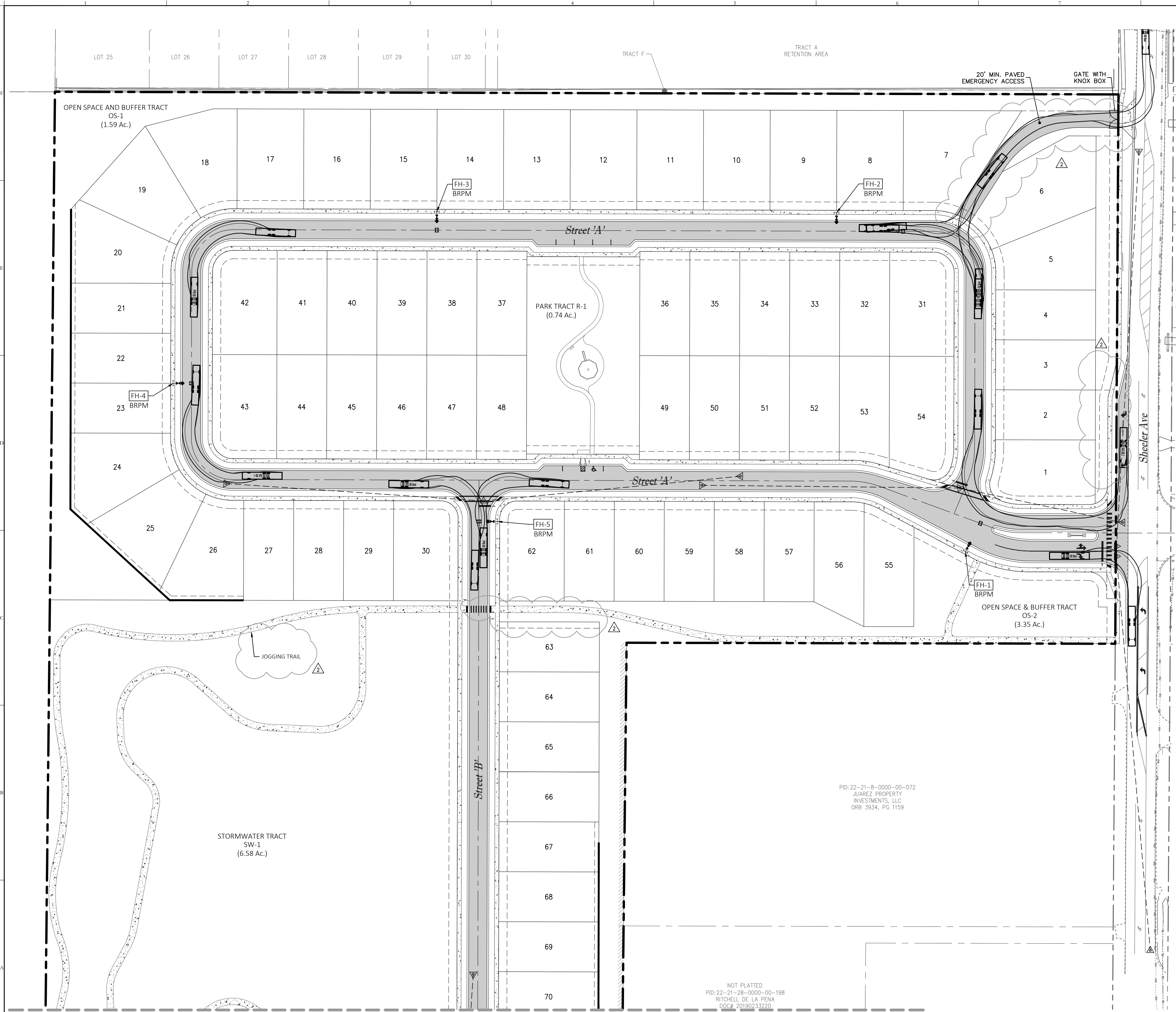
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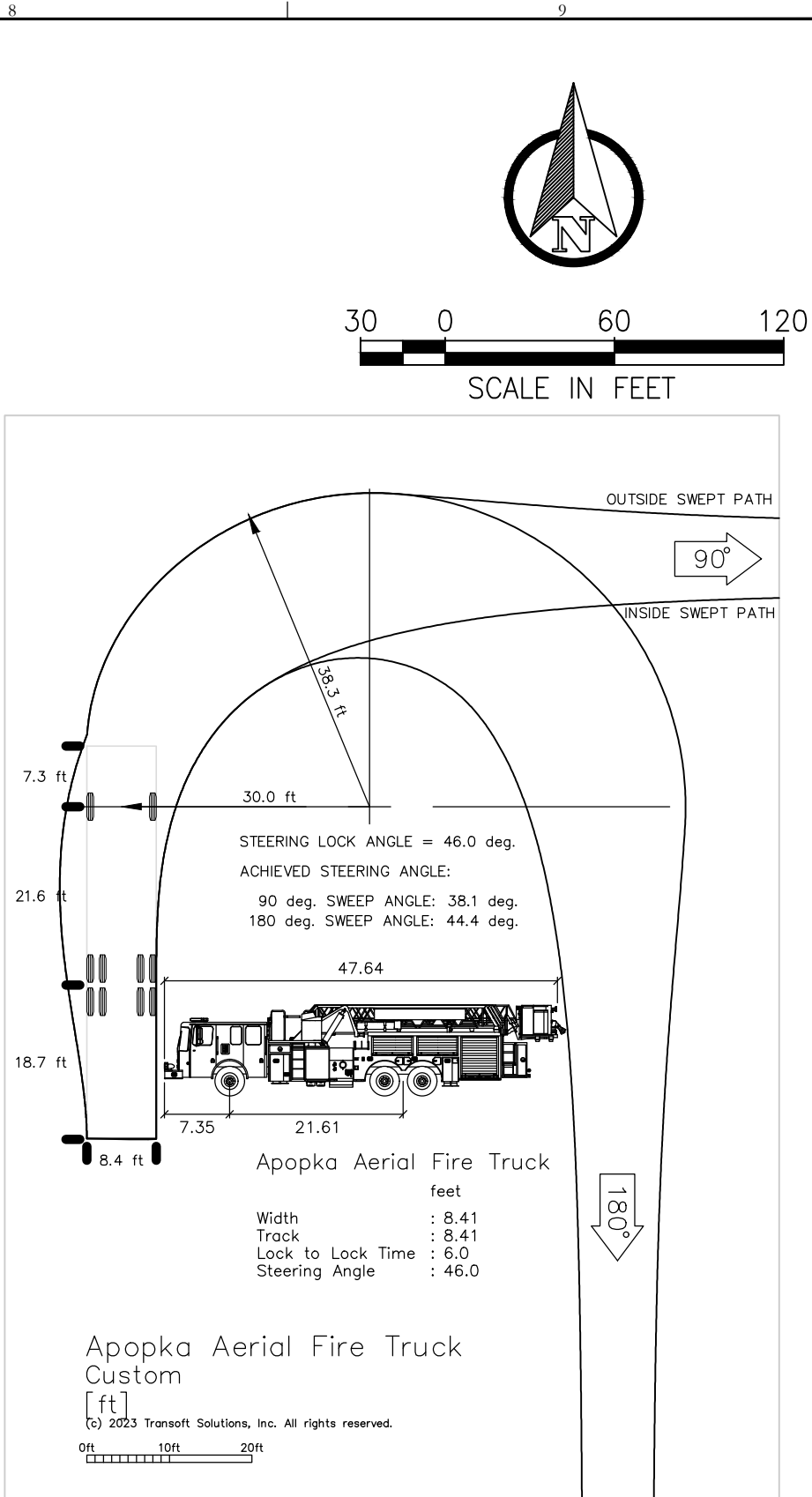
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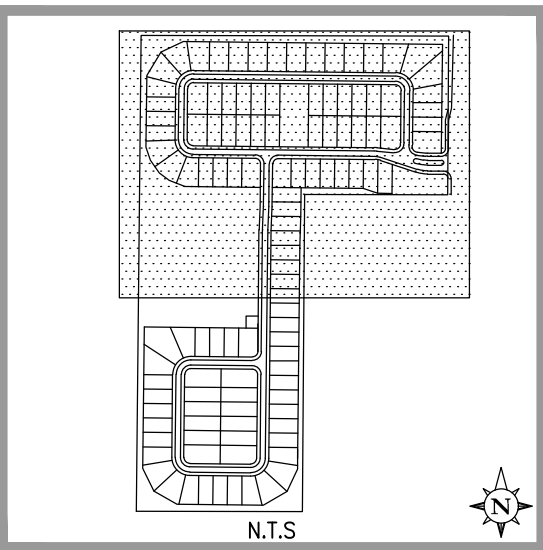


Match Line
For Cont. See Sheet C6.11



- NOTES:**
1. FIRE HYDRANTS SHALL BE INSTALLED SO THAT THE DESIGN AND CALCULATIONS MEET THE REQUIREMENTS IN THE CITY OF APOPKA SUBDIVISION REGULATIONS AND THE FFPC 7TH EDITION AND NFPA DWELLING UNITS. ALLEYS HAVE BEEN DESIGNED FOR FIRE ACCESS WHERE REQUIRED. ACCESS SHALL BE IN ACCORDANCE WITH CHAPTER 18 OF THE FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS.
 2. FIRE HYDRANTS SHALL BE PROVIDED FOR DETACHED ONE- AND TWO- FAMILY DWELLINGS IN ACCORDANCE WITH BOTH OF THE FOLLOWING:
 - 3.1 THE MAXIMUM DISTANCE TO A FIRE HYDRANT FROM THE CLOSEST POINT ON THE BUILDING SHALL NOT EXCEED 250 FEET
 - 3.2 THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS SHALL NOT EXCEED 500 FEET.
 3. FIRE HYDRANTS SHALL BE PROVIDED FOR BUILDINGS OTHER THAN DETACHED ONE- AND TWO-FAMILY DWELLINGS IN ACCORDANCE WITH BOTH OF THE FOLLOWING:
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 5. NEEDED FIRE FLOW FOR SINGLE FAMILY DWELLINGS SHALL BE AS FOLLOWS: HOMES 5,000 S.F. OR LESS 1,000 GPM; HOMES EXCEEDING 5,000 S.F. SHALL PROVIDE FIRE FLOW IN ACCORDANCE WITH TABLE 18.4.5.2. 1OF THE FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS. REDUCTION OF FIRE FLOW MAY BE PERMITTED IF DWELLING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM OR SEPARATED FROM OTHER STRUCTURES BY 30 FEET BUT IN NO CASE SHALL THE FIRE FLOW BE LESS THAN 500 GPM PER 18.4.5 FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS.
 6. DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ON TO THE SITE, ACCESS ROADS AND A SUITABLE TEMPORARY OR PERMANENT SUPPLY OF WATER ACCEPTABLE TO THE WIRE DEPARTMENT SHALL BE PROVIDED AND MAINTAINED PER FFPC 7TH EDITION AND N GPA 1(2018) WITH FLORIDA AMENDMENTS.
 7. ALL PRIMARY BUILDING STRUCTURES SHALL BE LOCATED ON LOTS SUCH THAT THE FIRE DEPARTMENT ACCESS ROAD IS WITHIN 50 FT. OF AN EXTERIOR DOOR IN ACCORDANCE WITH 18.2.3.2. 1OF THE FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS
 8. STREET DESIGN CAN ACCOMODATE LARGE TRUCKS, FIRE TRUCKS, MOVING COMPANY SEMITRUCKS WB-40 AND GARBAGE TRUCKS AND BASED ON THE CENTERLINE MINIMUM RADIUS OF 50.0'.
 9. ALL ROUNDABOUTS SHALL INCORPORATE A CONCRETE MOUNTABLE APRON TO ALLOW FIRE TRUCKS TO MANEUVER THROUGH THE INTERSECTION.
 10. FIRE HYDRANTS SHALL BE LOCATED 5 FEET TO 7 FEET FROM THE EDGE OF PAVEMENT TO CENTER OF HYDRANTS
 11. CONTRACTOR SHALL INSTALL BLUE REFLECTIVE PAVEMENT MARKING IN THE CENTER OF THE ADJACENT TRAVEL LANE IN FRONT OF ALL FIRE HYDRANTS.

Key Map:



Consultant:

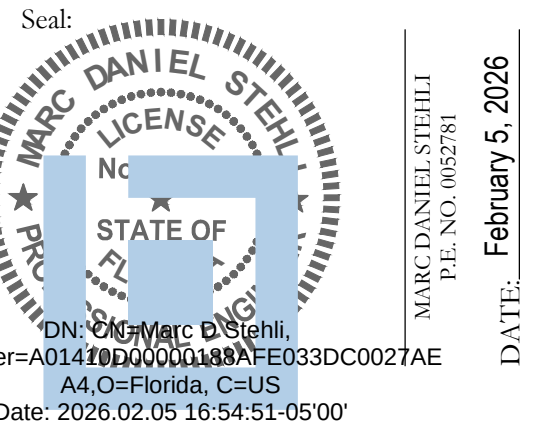
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1	12/4/2025	RESPOND TO CITY COMMENTS
0	10/13/2025	SUBMIT TO CITY OF APOPKA
NO.	DATE:	DESCRIPTIONS:
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:		NAVD88
JOB NO.:		24-198
DESIGNED BY:		BR
DRAWN BY:		AR
CHECKED BY:		JB
APPROVED BY:		MDS
SCALE IN FEET:		1" = 60'
Project Name:		

SHEELER PARK

Submittal To:
CITY OF APOPKA, FL

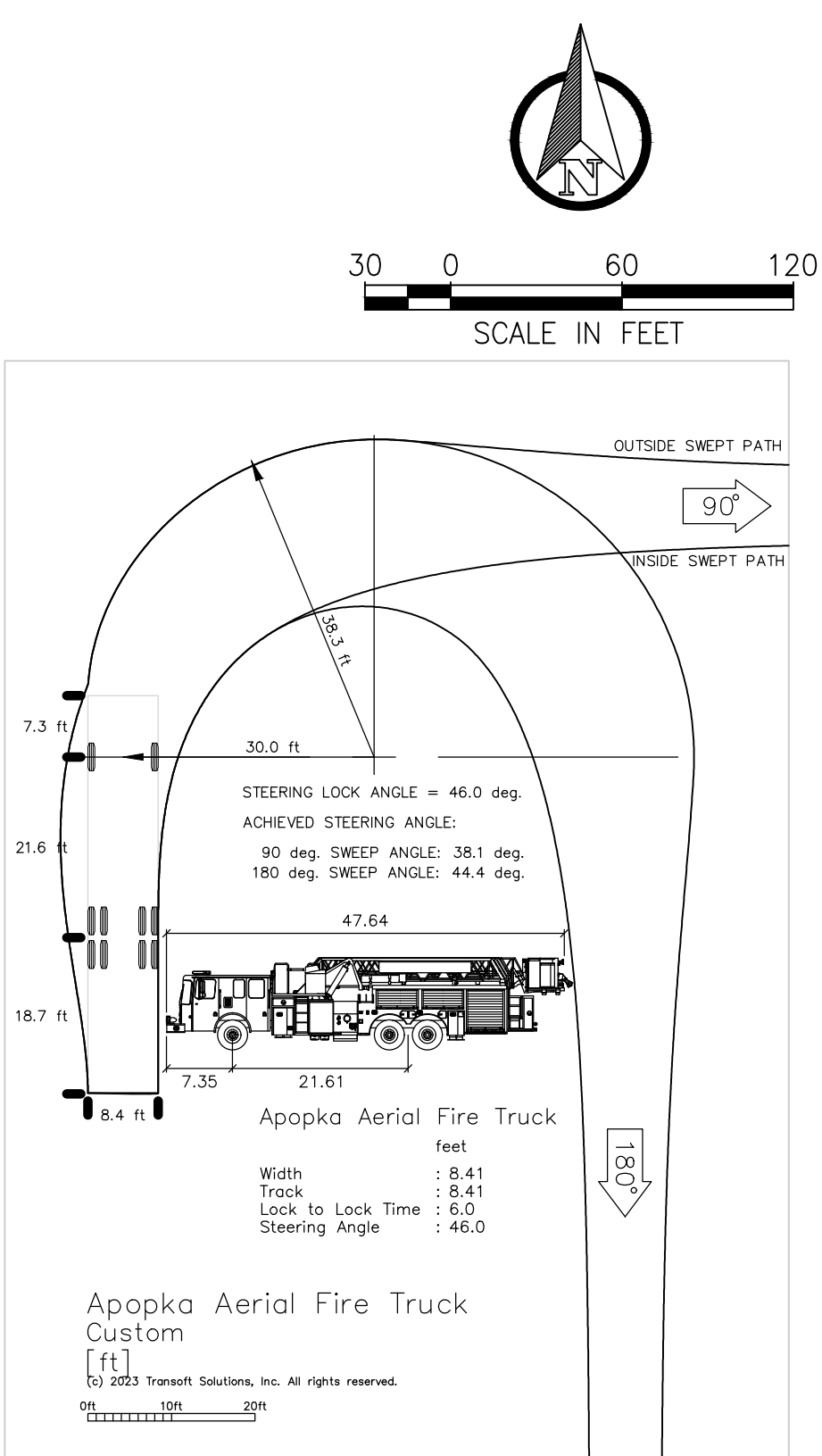
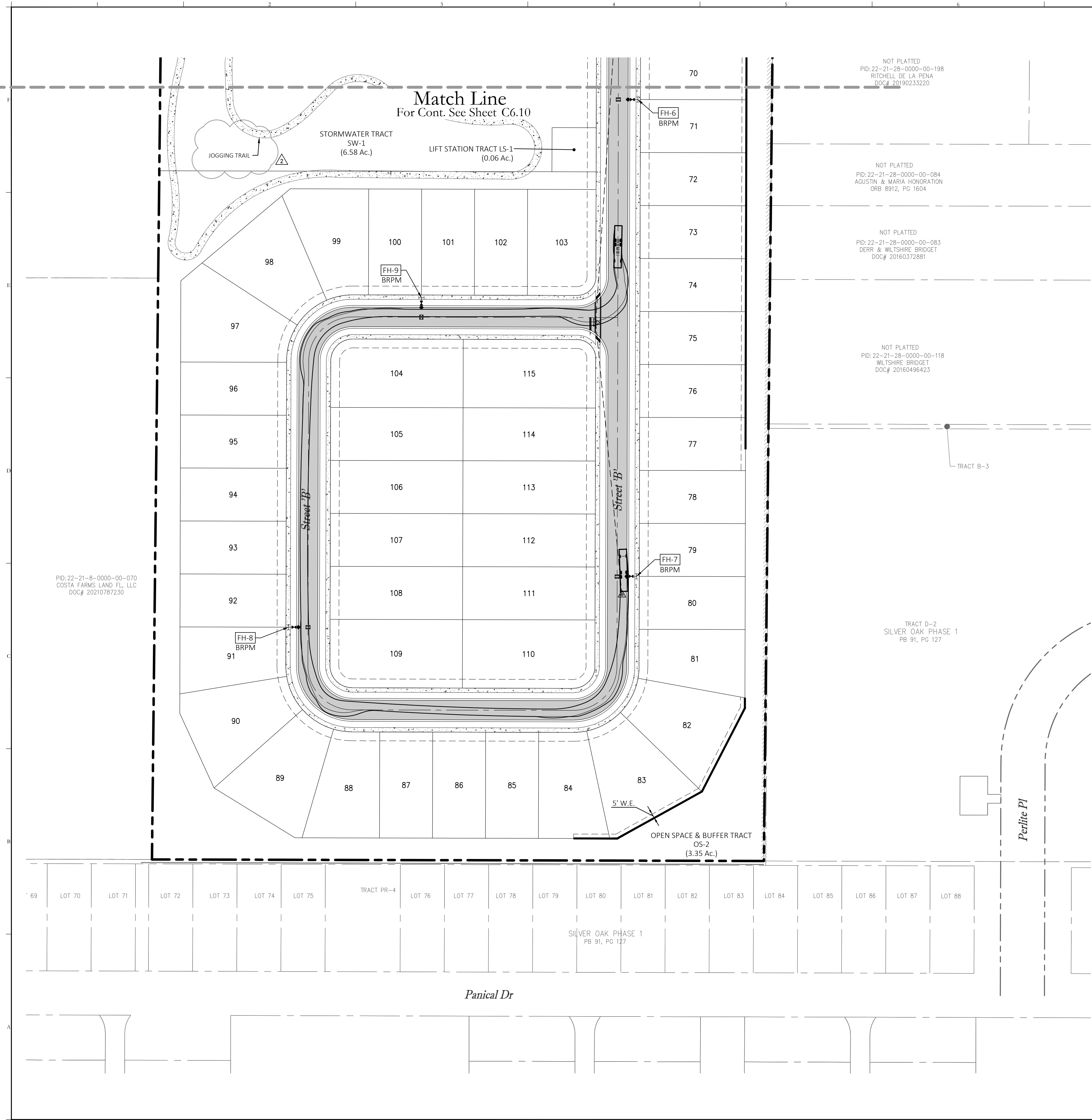
Sheet Title:
FIRE ACCESS &
PARKING PLAN

Sheet No.:
C6.10



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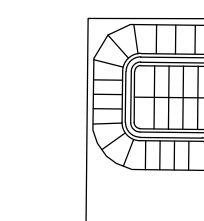
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NOTES:

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Key Map



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SHEELER PARK

Submittal To:
CITY OF APOPKA, FL

Sheet Title:

**FIRE ACCESS &
PARKING PLAN**

Sheet No.: **C6.11**

Seal: 

DN: cn=Marc D Stehli,
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MARC DANIEL STEHLI
 P.E. NO. 0052781

February 5, 2026

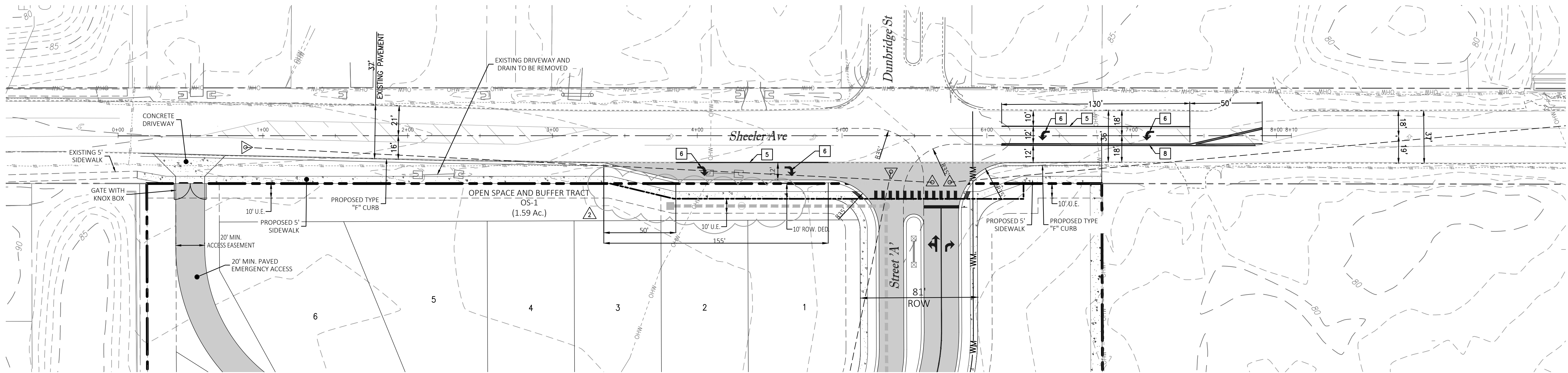
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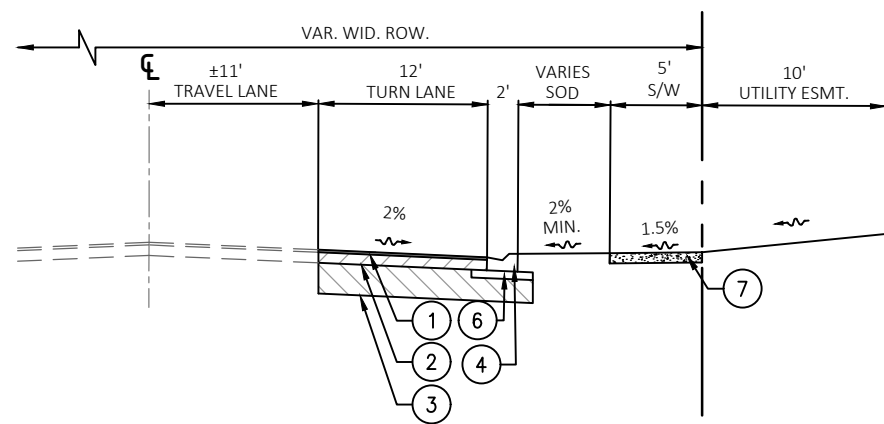
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N.T.S.

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