

March 5, 2024

PROJECT NAME: MIDWAY TERRACE APARTMENTS 9007-0101-18

PROJECT NUMBER: 2023050074

APPLICATION: MAJOR SITE PLAN #30183

- 1 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(8) - Calculation & Plan Consistency
STATUS OF REVIEW: INFO
REMARKS: This criteria to be reviewed with resubmittal.
- 2 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.10.B - Copy of NPDES Permit or NOI
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the NPDES permit or NOI prior to construction.
- 3 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Copy of District Permit (County Interest)
STATUS OF REVIEW: INFO
REMARKS: Please provide a copy of the District permit prior to construction.
- 4 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Additional Stormwater comments
STATUS OF REVIEW: INFO
REMARKS: (1) It appears that swales are proposed within the buffer areas. Staff does not have any issue with combining functions. Buffer materials used should be compatible with and should not interfere with drainage functions. (2) If you have questions or would like to discuss the stormwater review comments, please contact Kevin Vickers, PE at 352-671-8695 or kevin.vickers@marionfl.org.
- 5 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.12.4.K - List of approved waivers, their conditions, and the date of approval
STATUS OF REVIEW: INFO
REMARKS: 6/27/23 - add waivers if requested in the future
- 6 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: Additional Development Review Comments
STATUS OF REVIEW: INFO
REMARKS: After approval, plans will be electronically stamped by the County. The applicant will receive an email indicating that approved plans are available for download and are located in the ePlans project Approved folder. For Development Review submittals, with the exception of Final Plats and Minor Site Plans, applicants are required to print, obtain required signatures, and sign and seal two 24"x 36" sets of the electronically stamped approved plan and deliver them to the Office of County Engineer, Development Review Section, located at 412 SE 25th Avenue Ocala, FL 34471. Upon receipt, a development order will be issued. Until such time as that development order is issued, the project does not have final approval and construction, if applicable, shall not commence. For plans requiring As-Builts, As-Builts and associated documentation shall be submitted on paper in accordance with current county requirements.
- 7 DEPARTMENT: LUCURR - LAND USE CURRENT REVIEW
REVIEW ITEM: 6.12.2.A - [Access Improvements R/W Provided (decel/accel/turn lanes)?]
STATUS OF REVIEW: INFO
REMARKS: Defer to OCE - Traffic

- 8 DEPARTMENT: LUCURR - LAND USE CURRENT REVIEW
REVIEW ITEM: 2.12.5/1.8.2.A - Concurrency/Traffic - Study/Capacity Available?
STATUS OF REVIEW: INFO
REMARKS: Defer to OCE - Traffic
- 9 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.8.11 - Landscape installation
STATUS OF REVIEW: INFO
REMARKS: Installation shall mean survival in perpetuity
- 10 DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 2.12.4.C - Owner and applicant name
STATUS OF REVIEW: INFO
REMARKS: Name, address, phone number, and signature of the owner and applicant (these signatures are not required until the final submittal)
- 11 DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 4.4.4 -Sign (provisions for advertising signage), if it is a multi occupancy complex like shopping centers they must submit a master sign plan.
STATUS OF REVIEW: INFO
REMARKS: will there be any signs?
- 12 DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 2.12.27 - Show location of outside storage areas
STATUS OF REVIEW: INFO
REMARKS: will there be any outside storage?
- 13 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.A(3) - Retention/Detention Area Design Parameters
STATUS OF REVIEW: NO
REMARKS: See comment under "6.13.6 - Stormwater Quality Criteria" and update DRA cross sections accordingly.
- 14 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(4) - Hydrologic Analysis
STATUS OF REVIEW: NO
REMARKS: (1) ICPR inputs for Kv and Kh exceed values established by the geotechnical engineer's report. Please clarify. (2) There is a County owned DRA in close proximity to the proposed DRA (Parcel 9007-0099+03). There's also a proposed DRA on the adjacent parcel to the East. Please provide a perc ring exhibit for the proposed DRA to demonstrate that the impact of these other DRAs are considered in the recovery analysis. (3) Freeboard and recovery criteria to be reviewed with resubmittal. Please note, dry DRAs are required to fully recover within 14 days after the design storm. If they do not, the DRA must be designed to hold an additional design storm post-pre volume.
- 15 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.4.C - Discharge Conditions
STATUS OF REVIEW: NO
REMARKS: See comments under "6.13.2.B(4) - Hydrologic Analysis"

- 16 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(6) - Freeboard
STATUS OF REVIEW: NO
REMARKS: See comments under "6.13.2.B(4) - Hydrologic Analysis"
- 17 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.4.D - Recovery Analysis
STATUS OF REVIEW: NO
REMARKS: See comments under "6.13.2.B(4) - Hydrologic Analysis"
- 18 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.6 - Stormwater Quality Criteria
STATUS OF REVIEW: NO
REMARKS: DRAs is 5' deep and thus is required to be sodded on the sides and bottom. Alternatively, seed and mulch may be pursued via waiver. If seed and mulch is approved applicant must adhere to FDOT Specification section 570 for establishment requirements. Please indicate the proposed DRA stabilization method on the DRA cross section.
- 19 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.2.B(5) - Hydraulic Analysis
STATUS OF REVIEW: NO
REMARKS: Please update tailwater conditions per comments under "6.13.2.B(4) - Hydrologic Analysis"
- 20 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: 6.13.8.B(7) - Minimum Pipe Size
STATUS OF REVIEW: NO
REMARKS: Please label the pipe size and material for the pipe connecting D-5 to D-6.
- 21 DEPARTMENT: ENGDRN - STORMWATER REVIEW
REVIEW ITEM: Please provide a final signed and sealed hard copy signature page with references to the stormwater analysis or final hard copy of the full stormwater analysis.
STATUS OF REVIEW: NO
REMARKS: After all stormwater comments are resolved, please upload a scanned copy of the ink signed and sealed certification page of the stormwater report to eplans. A hard copy is no longer required. Digital sign and seal is not accepted at this time.
- 22 DEPARTMENT: ENGTRF - TRAFFIC REVIEW
REVIEW ITEM: 6.12.12 - Sidewalks
STATUS OF REVIEW: NO
REMARKS: Sidewalk is required along Midway Ter. Staff supports payment of a fee instead of construction. The fee must be approved by the DRC. If approved by DRC, the sidewalk fee is \$2,500.
- 23 DEPARTMENT: ENGIN - DEVELOPMENT REVIEW
REVIEW ITEM: 2.21.2.B - Major Site Plan fee of \$250.00 + (\$5.00 x total site acreage) made payable to Marion County BCC
STATUS OF REVIEW: NO
REMARKS: 12/5/23 - fee due with resubmittal
6/27/23 - fee due with resubmittal

- 24 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.15.6.F - Meter Boxes
STATUS OF REVIEW: NO
REMARKS: meters shall be banked
- 25 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: 6.15.6.G & H - Meter Sizing
STATUS OF REVIEW: NO
REMARKS: confirm 2.5" meter necessary to serve
- 26 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Utilities Plan Review Fee per Resolution 15-R-583 - payable to Marion County Utilities
STATUS OF REVIEW: NO
REMARKS: as of 11/3/23 remains unpaid
\$130 minimum review fee; to pay by phone call 352-671-8686 & state this is the Utility Review Fee for AR 30183 prior to resubmittal to clear this checklist item.
- 27 DEPARTMENT: UTIL - MARION COUNTY UTILITIES
REVIEW ITEM: Additional Utilities comments
STATUS OF REVIEW: NO
REMARKS: In order to maintain consistency in comments between AR 30147 (also Midway Terrace Apartments) and this AR 30183, please ensure plans are set for utility improvements similarly, including meter banks, valves at ROW, and other changemarks provided under AR 30147.
- 28 DEPARTMENT: LUCURR - LAND USE CURRENT REVIEW
REVIEW ITEM: 2.12.16/6.5 - [EALS or EALS-ER provided?]
STATUS OF REVIEW: NO
REMARKS: Provide Environmental Assessment or Exemption (The environmental assessment has not been included for review)
- 29 DEPARTMENT: ENGSUR - SURVEY REVIEW
REVIEW ITEM: 6.4.7.B(2) - Horizontal control points shall be monumented and referenced to the Florida State Plane Coordinate System
STATUS OF REVIEW: NO
REMARKS: Please reference horizontal control to the Florida State Plane Coordinate System.
- 30 DEPARTMENT: ENGSUR - SURVEY REVIEW
REVIEW ITEM: 6.4.7.B(4) - Provide a statement or table detailing horizontal datum, adjustment, and coordinate values
STATUS OF REVIEW: NO
REMARKS: Please provide.
- 31 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 2.12.18 - All trees 10" DBH and larger
STATUS OF REVIEW: NO
REMARKS: Aerial shows many trees on the parcel not shown to be removed, please clarify
- 32 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.7.3 - Tree protection
STATUS OF REVIEW: NO
REMARKS: Will any trees be preserved? If so, show tree protection

- 33 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.7.4 - Shade tree requirements
STATUS OF REVIEW: NO
REMARKS: Provide shade tree calculations
- 34 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.7.6 - Tree removal submittal requirements
STATUS OF REVIEW: NO
REMARKS: Show sizes and types of trees being removed
- 35 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.7.8 - Protected tree replacement requirements
STATUS OF REVIEW: NO
REMARKS: Provide tree mitigation calculations
- 36 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.7.9 - Replacement trees; general requirements
STATUS OF REVIEW: NO
REMARKS: Plan states 89" proposed trees, plant legend indicates 42" (replacement trees shall be 3.5" cal min)
- 37 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.8.2 - Landscape plan requirements (details, schedule, calculations, notes)
STATUS OF REVIEW: NO
REMARKS: Show planting details, notes
- 38 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.8.5 - Landscape area requirements for residential and mixed use developments
STATUS OF REVIEW: NO
REMARKS: Provide landscape area percentage
- 39 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.8.10 - General planting requirements (specifications)
STATUS OF REVIEW: NO
REMARKS: Provide Planting details and specifications
- 40 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.8.12 - Landscape completion inspection requirements
STATUS OF REVIEW: NO
REMARKS: Provide note from this section of code
- 41 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.9.6 - Completion inspection requirements
STATUS OF REVIEW: NO
REMARKS: Provide note from this section of code
- 42 DEPARTMENT: LSCAPE - LANDSCAPE DESIGN AND IRRIGATION
REVIEW ITEM: 6.19.3 - Outdoor lighting plan requirements
STATUS OF REVIEW: NO
REMARKS: will there be any pole lights? if so, a photometric plan is required

- 43 DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 2.12.21/6.3.1.C(10) - Land use and zoning on project and on adjacent properties shown
STATUS OF REVIEW: NO
REMARKS: 11/07/23 - identify land use (UR on NW & SE parcels, HR on NE parcel) on project & adjacent properties.
identify land use and zoning on project and adjacent properties.
- 44 DEPARTMENT: ZONE - ZONING DEPARTMENT
REVIEW ITEM: 5.2 & 5.3 - Verify any overlay zones such as ESOZ, Springs Protection, or Flood Plain
STATUS OF REVIEW: NO
REMARKS: 11/07/23 - identify Springs Protection Zone (Primary)
identify flood zone and Springs Protection zone.



**Marion County
Board of County Commissioners**

AR #30183

Office of the County Engineer

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

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Date: 03/05/2024 Parcel Number(s): 9007-0101-18 Permit Number: 2023050037

A. PROJECT INFORMATION: Fill in below as applicable:

Project Name: Multi-Family Midway Terrace Lot 18 Commercial Residential
Subdivision Name (if applicable): _____
Unit _____ Block 101 Lot 18 Tract _____

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

Name (print): Adan Ordonez
Signature:
Mailing Address: 1911 Morning Dr City: Orlando
State: FL Zip Code: 32809 Phone # 407-967-2867
Email address: adaninvestments@adanordonez.com

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

Firm Name (if applicable): Linn Engineering and Design Contact Name: Greg Chatelain
Mailing Address: P.O. Boc 140024 City: Orlando
State: FL Zip Code: 32814 Phone # 407-775-5194
Email address: greg@linnengineering.com

D. WAIVER INFORMATION:

Section & Title of Code (be specific): 6.13.6 - Stormwater Quality Criteria
Reason/Justification for Request (be specific): DRAs is 5' deep and is required to be sodded on sides and bottom.
Alternatively, seed and mulch may be pursued via waiver.
applicant must adhere to FDOT Specification section 570 for establishment requirements.
Proposed DRA stabilization method is included on the DRA cross section.

DEVELOPMENT REVIEW USE:

Received By: Email 3/5/24 Date Processed: 3/5/24 CF Project # 2023050074 AR # 30183

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



**Marion County
Board of County Commissioners**

Office of the County Engineer

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

DEVELOPMENT REVIEW COMMITTEE WAIVER REQUEST FORM

Section & Title of Code (be specific) 2.12.8 - Topographical Contours 2.12.8 - Topographical Contours
Reason/Justification for Request (be specific): 2.12.8 - Topographical Contours states,
, "LDC requires that one-foot contours extend 100 feet beyond the project boundary." Topo.
. Contours 100' beyond property lines is excessive, since that would require a survey of the entirety of adjacent lots.
In lieu of 100', the client will provide 50' when possible, which is standard practice.

Section & Title of Code (be specific) _____
Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____
Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____
Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____
Reason/Justification for Request (be specific): _____

Section & Title of Code (be specific) _____
Reason/Justification for Request (be specific): _____

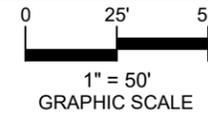
Section & Title of Code (be specific) _____
Reason/Justification for Request (be specific): _____

LYNX SURVEYORS CORP

LAND SURVEYORS
AND MAPPER LB 8469

302 LAUREL ROAD EAST UNIT 291
LAUREL, FLORIDA 34272

833-721-2907
contact@lynxsurveyors.com
www.lynxsurveyors.com



PROPERTY AND OWNER INFORMATION

PROPERTY ADDRESS
XXXX MIDWAY TERRACE
OCALA, FL 34472

PARCEL ID :
9007-0101-18

COUNTY / STATE :
MARION COUNTY

FLOOD ZONE INFORMATION:

COMMUNITY NO : 120160
PANEL : 0735
SUFFIX : D
EFFECTIVE DATE : 08/28/2008
FLOOD ZONE : X
B.F.E. : N/A

FIELD DATE : 09/11/2023
DRAWN DATE : 09/28/2023
DRAWN BY : A.V.
CHECKED BY : J.L.

LEGAL DESCRIPTION :

LOT 18, BLOCK "101", SILVER SPRING SHORES UNIT NO. 7, according to the map or plat thereof as recorded in Plat Book J, Pages 94 through 102, inclusive, of the Public Records of MARION COUNTY, Florida.

CERTIFIED TO :

ALEJANDRO GUTIERREZ

ALEJANDRO GUTIERREZ, ITS SUCCESSOR'S AND/OR ASSIGNS AND THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT AS THEIR INTERESTS MAY APPEAR.

SURVEYOR'S NOTES

- LEGAL DESCRIPTION PROVIDED BY OTHERS. NO EXAMINATION OF TITLE MADE BY SURVEYOR. THE LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS OR OTHER RECORDED ENCUMBRANCES NOT SHOWN ON THE PLAT.
- THIS CERTIFICATION IS ONLY FOR THE LANDS DESCRIBED. IT IS NOT A CERTIFICATION OF TITLE, ZONING, EASEMENTS OR FREEDOM FROM ENCUMBRANCES OWNERSHIP OR RIGHTS-OF-WAY.
- UNDERGROUND PORTIONS OF FOOTINGS, FOUNDATIONS OR OTHER IMPROVEMENTS WERE NOT LOCATED. WALL TIES ARE TO THE FACE OF THE WALL AND ARE NOT TO BE USED TO RECONSTRUCT BOUNDARY LINES.
- NOT VALID WITHOUT THE SIGNATURE & ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ONLY VISIBLE ENCROACHMENTS LOCATED.
- THIS SURVEY IS INTENDED FOR CONSTRUCTION PURPOSES ONLY. EXCLUSIVELY FOR THIS USE BY THOSE TO WHOM IT IS CERTIFIED. THIS SURVEY IS TO BE USED FOR CONSTRUCTION, PERMITTING OR DESIGN. ANY OTHER USE IS NOT VALID WITHOUT WRITTEN CONSENT.
- NO EFFORT WAS MADE TO PROVE PLAT BOUNDARIES.
- ONLY IMPROVEMENTS SHOWN WHERE LOCATED. WE DO NOT DETERMINE WHO OWNS THE FENCES, TREES OR ANY OTHER IMPROVEMENTS.
- DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
- PARCEL SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS, AND RIGHT-OF-WAYS OF RECORD.
- EASEMENTS SHOWN ON THIS DRAWING ARE FROM THE RECORDED PLAT. ANY OTHER EASEMENT (S) PERTAINING TO THE HEREON DESCRIBED LAND (S) MUST BE FURNISHED TO THE SURVEYOR BY THE CLIENT OR THE CLIENTS AGENT PER FLORIDA STATUTE "CHAPTER 5J-17" OF THE FLORIDA ADMINISTRATIVE CODE.
- ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- PARCEL WAS SURVEYED FROM INFORMATION SUPPLIED BY THE CLIENT.
- THE ACCURACY OF CONTROL SURVEY DATA SHALL BE VERIFIED BY REDUNDANT MEASUREMENTS OR TRAVERSE CLOSURES. ALL CONTROL MEASUREMENTS SHALL ACHIEVE THE FOLLOWING CLOSURES: COMMERCIAL/HIGH RISK LINEAR: 1' FOOT IN 10,000' FEET; SUBURBAN: LINEAR: 1' FOOT IN 7,500' FEET; RURAL: LINEAR: 1' FOOT IN 5,000' FEET.
- BEARINGS AND DISTANCES SHOWN HEREON AS "M." (See Legend) ARE MEASURED BY GPS OBSERVATIONS (STATE PLANE COORDINATE SYSTEM NAD-83 FL-WEST). THE BASIS OF BEARING IS BASED UPON N 42°42'52" W ALONG THE CENTERLINE OF MIDWAY TERRACE AS PLATTED.
- ELEVATIONS SHOWN HEREON ARE BASED UPON NAVD1988 DATUM. BENCHMARK USED (ASSUMED BY GPS OBSERVATION) WITH ELEVATION OF 87.39'.

I HEREBY CERTIFY THAT THE SURVEY OF THE HEREON DESCRIBED PROPERTY WAS PREPARED UNDER MY DIRECT SUPERVISION AND MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.051 & .052 F.A.C., FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472.027, FLORIDA STATUTES.

GUSTAVO INTERIAN

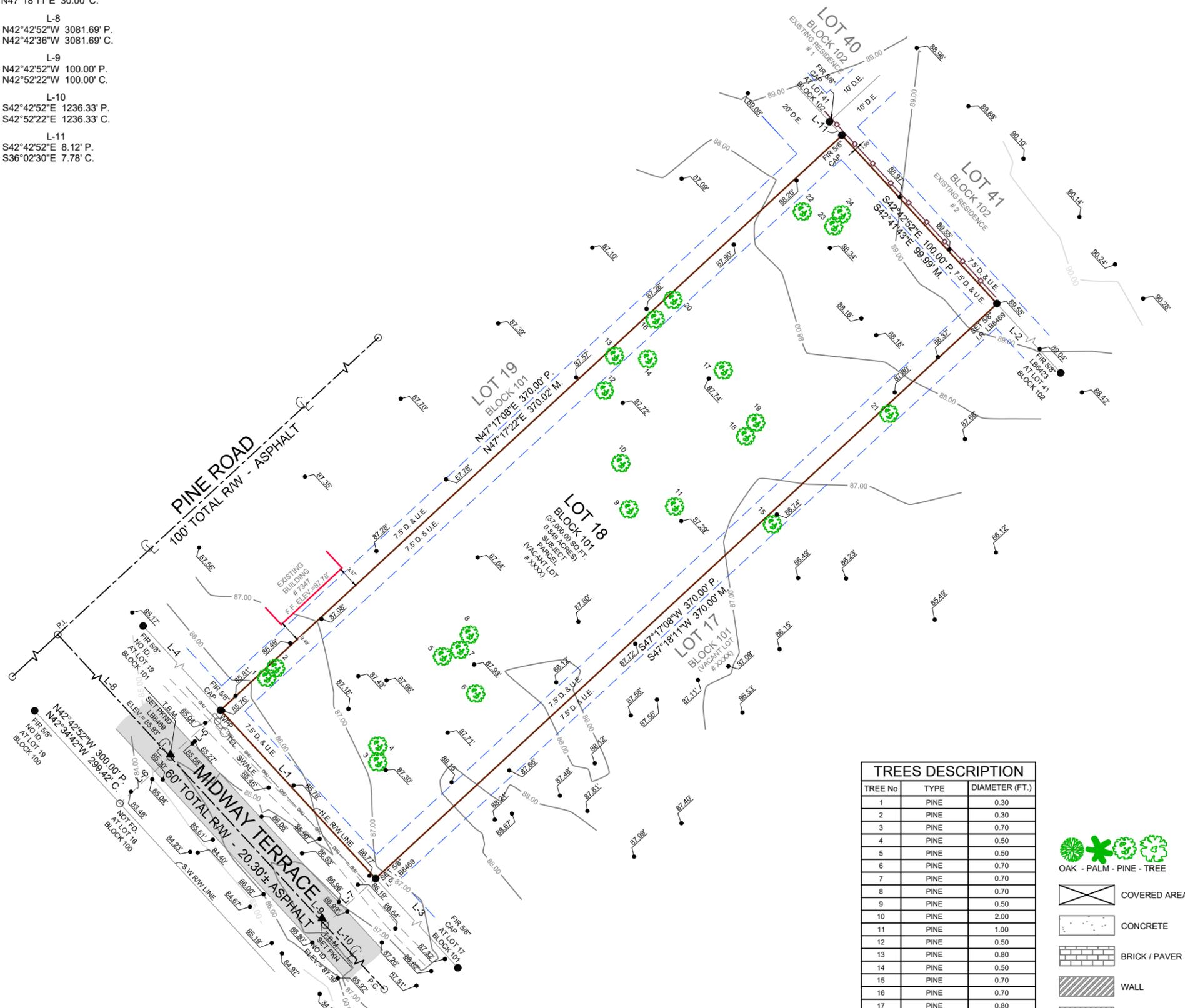
PROFESSIONAL SURVEYOR AND MAPPER PSM 6461

JOB NUMBER: LS231151

BOUNDARY & TOPOGRAPHIC SURVEY

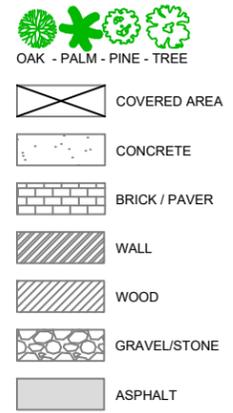
| LINE DETAILS: | |
|---------------|----------------------------------|
| A/C | AIR CONDITIONER |
| A.E. | ACCESS EASEMENT |
| B.R. | BEARING REFERENCE |
| B.F.E. | BASE FLOOD ELEVATION |
| B.M. | BENCHMARK |
| C. | CALCULATED |
| C.M. | CONCRETE MONUMENT |
| CONC. | CONCRETE |
| CALC. | CALCULATED |
| CATV | CABLE TELEVISION RISER |
| CB | CHORD BEARING |
| CH | CHORD |
| COR. | CORNER |
| C.O.R. | CROWN OF THE ROAD |
| C.V.G. | CONC VALLEY GUTTER |
| C/O | CLEAN OUT |
| C.U.E. | COUNTY UTILITY EASEMENT |
| D. | DESCRIPTION OR DEED |
| D.E. | DRAINAGE EASEMENT |
| D.H. | DRILL HOLE |
| ELEC. | ELECTRIC BOX |
| EL. | ELEVATION |
| E. | EAST |
| ENCL. | ENCLOSURE |
| E.O.P. | EDGE OF PAVEMENT |
| E.O.W. | EDGE OF WATER |
| F.H. | FIRE HYDRANT |
| F.F. | FINISHED FLOOR |
| FD. | FOUND |
| F. | FIELD |
| I.E. | IRRIGATION EASEMENT |
| I.D. | IDENTIFICATION |
| I.P. | IRON PIPE |
| I.R. | IRON ROD |
| L. | ARC LENGTH |
| L.B. | LAND SURVEYING BUSINESS |
| L.B.E. | LANDSCAPE BUFFER ESMT |
| L.C.U.E. | LEE COUNTY UTILITY EASEMENT |
| M. | FIELD MEASURED |
| M.A.F.L. | MEAN ANNUAL FLOOD LINE |
| M.E. | MAINTENANCE EASEMENT |
| M.H.W.L. | MEAN HIGH WATER LEVEL |
| N/A | NOT APPLICABLE |
| N.T.S. | NOT TO SCALE |
| N. | NORTH |
| N&D | NAIL & DISC |
| N.R. | NON RADIAL |
| O.H.L. | OVERHEAD LINES |
| O.R.C. | OFFICIAL RECORDS BOOK |
| O.U.E. | ORANGE TREE UTIL. ESMT. |
| P. | PLAT |
| P.B. | PLAT BOOK |
| P.C. | POINT OF CURVATURE |
| P.C.C. | POINT OF COMPOUND CURVATURE |
| P.C.P. | PERMANENT CONTROL POINT |
| P.G. | PAGE |
| P.I. | POINT OF INTERSECTION |
| P.K.N. | PARKER-KAYLON NAIL |
| P.K.N.D. | PARKER-KAYLON NAIL & DISC |
| P.L.S. | PROFESSIONAL LAND SURVEYOR |
| P.P. | UTILITY POLE |
| PVC | POLYVINYL CHLORIDE |
| P.O.B. | POINT OF BEGINNING |
| P.O.C. | POINT OF COMMENCEMENT |
| P.R.C. | POINT OF REVERSE CURVE |
| P.R.M. | PERMANENT REFERENCE MONUMENT |
| P.S.M. | PROFESSIONAL SURVEYOR AND MAPPER |
| P.T. | POINT OF TANGENCY |
| P.U.E. | PUBLIC UTILITY EASEMENT |
| R. | RADIUS |
| RAD. | RADIAL |
| RAD.PT. | RADIUS POINT |
| R/W | RIGHT OF WAY |
| S. | SOUTH |
| S.D. | STORM DRAIN |
| S.W. | SIDEWALK |
| SEC. | SECTION |
| T.B.M. | TEMPORARY BENCH MARK |
| TEL. | TELEPHONE FACILITIES |
| T.O.B. | TOP OF BANK |
| TX | TRANSFORMER |
| TYP. | TYPICAL |
| U.E. | UTILITY EASEMENT |
| W. | WEST |
| W.M. | WATER METER |
| ■ | CONCRETE MONUMENT |
| ● | NAIL |
| ○ | IRON ROD |
| ○ | NOT FOUND |
| ○ | EXISTING ELEVATION |
| ○ | PROPOSED ELEVATION |
| → | DISTANCE & BEARING LIMIT ARROW |

| | | | |
|-----|------------------------|------|-------------------------|
| L-1 | N42°42'52"W 100.00' P. | L-7 | N47°17'08"E 30.00' P. |
| L-2 | S42°42'52"E 100.00' P. | L-8 | N42°42'52"W 3081.69' P. |
| L-3 | N42°42'52"W 100.00' P. | L-9 | N42°52'22"W 100.00' C. |
| L-4 | N42°42'52"E 100.00' P. | L-10 | S42°42'52"E 1236.33' P. |
| L-5 | N47°17'08"E 30.00' P. | L-11 | S36°02'30"E 7.78' C. |
| L-6 | N47°17'08"E 30.00' P. | | |



TREES DESCRIPTION

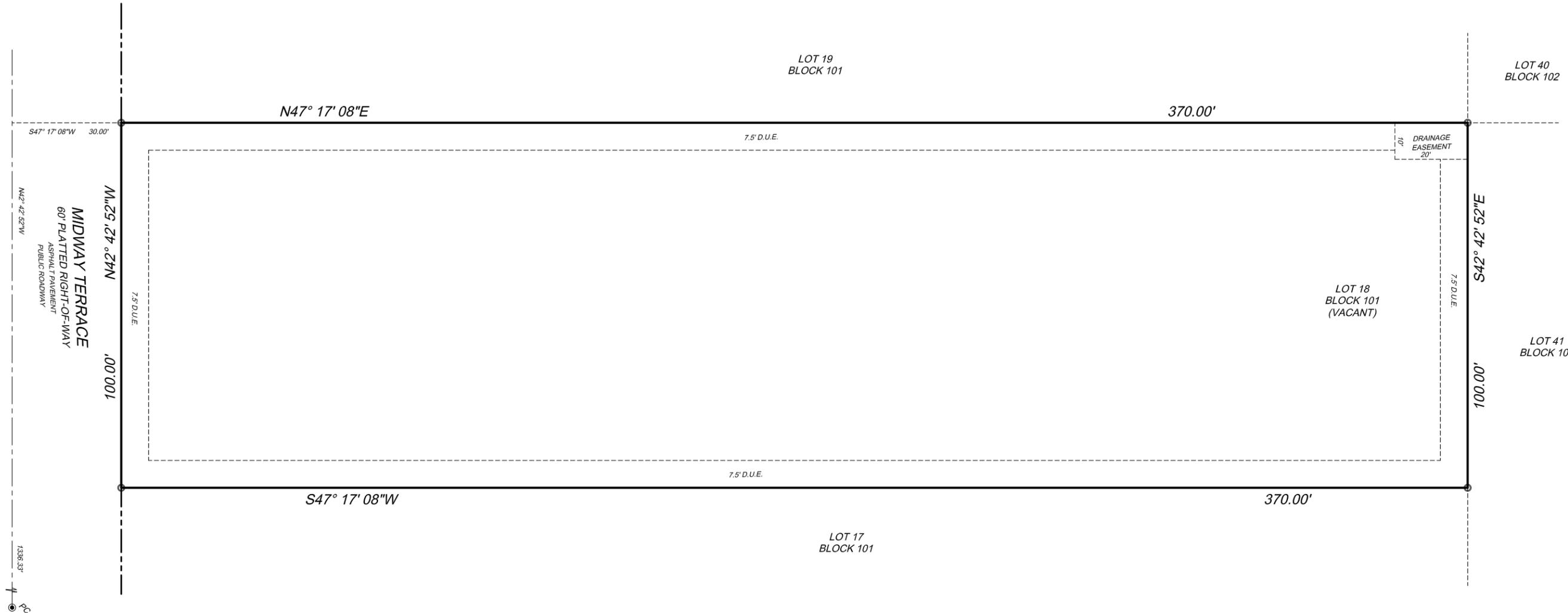
| TREE No | TYPE | DIAMETER (FT.) |
|---------|------|----------------|
| 1 | PINE | 0.30 |
| 2 | PINE | 0.30 |
| 3 | PINE | 0.70 |
| 4 | PINE | 0.50 |
| 5 | PINE | 0.50 |
| 6 | PINE | 0.70 |
| 7 | PINE | 0.70 |
| 8 | PINE | 0.70 |
| 9 | PINE | 0.50 |
| 10 | PINE | 2.00 |
| 11 | PINE | 1.00 |
| 12 | PINE | 0.50 |
| 13 | PINE | 0.80 |
| 14 | PINE | 0.50 |
| 15 | PINE | 0.70 |
| 16 | PINE | 0.70 |
| 17 | PINE | 0.80 |
| 18 | PINE | 0.50 |
| 19 | PINE | 0.50 |
| 20 | PINE | 0.50 |
| 21 | PINE | 0.80 |
| 22 | PINE | 1.00 |
| 23 | PINE | 1.00 |
| 24 | PINE | 0.50 |



BOUNDARY SURVEY

of
 LOT 18, BLOCK 101, SILVER SPRINGS SHORES UNIT NO. 7, ACCORDING
 TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK J, PAGES 94-102,
 OF THE PUBLIC RECORDS OF MARION COUNTY, FLORIDA

SCALE:
 1" = 30'



Surveyors Notes

1. The bearings shown hereon are based upon the center line of Midway Terrace, having a bearing of N 42°42'52" W per plat.
2. Only above-ground evidence of existing utilities is shown hereon.
3. Not valid without the signature and the original raised seal of the Professional Surveyor and Mapper.
4. The subject property appears to lie in Zone X, area determined to be outside the 0.2% annual chance floodplain, according to Flood Insurance Rate Map Community Panel Number 12105C0385H, dated 12/22/2016.
5. Additions and deletions to survey maps, sketches, or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
6. This survey is certified to and prepared for the sole and exclusive benefit of the entities and / or individuals listed and shall not be relied on by any other entities or individuals.
7. All field measurements taken for this survey were made with Robotic Total Station and/or steel tape and/or SOKKIA GCX3. Accuracy: Suburban: Linear: 1 foot in 7,500 feet.

LEGEND

- - INDICATES FOUND IRON ROD - NO CAP
- - INDICATES FOUND NAIL & DISK - NOT LEGIBLE
- D.U.E. - DRAINAGE & UTILITY EASEMENT
- PC - POINT OF CURVATURE
- PT - POINT OF TANGENCY
- PI - POINT OF INTERSECTION

Certified to:

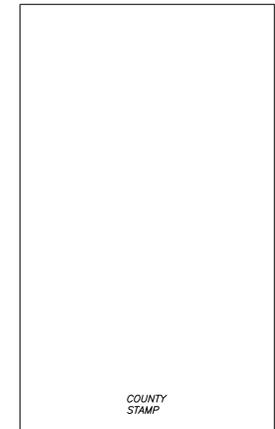
HARTLEY SURVEYING, INC

283 TIGER LILY COURT
 ALTAMONTE SPRINGS, FL 32714
 407-383-6978, 407-788-9415 (FAX)
 LB #7197

Jeff L. Hartley
 JEFF L. HARTLEY, PSM #5716
 FIELD DATE: 01/19/2022

CONSTRUCTION PLANS FOR MULTI-FAMILY MIDWAY TERRACE LOT 18 OCALA, FL 34472

Legal Description:
LOT 18, BLOCK 101, SILVER SPRINGS SHORES UNIT NO. 7,
ACCORDING TO THE PLAT THEREOF, AS RECORDED IN
PLAT BOOK J, PAGES 94-102, OF THE PUBLIC RECORDS OF
MARION COUNTY, FLORIDA



| REVISED PER CITY COMMENTS | DATE |
|---------------------------|----------|
| | 07/20/23 |
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| | |
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| | |

LINN ENGINEERING & DESIGN
P.O. BOX 140024
ORLANDO, FL 32814
PHONE: 407-775-5194
elin@linnengineering.com
CA LIC. NO. 31710

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

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

COVER SHEET

MIDWAY TERRACE LOT 18 MULTIFAMILY
OCALA, FL 34472
MAJOR SITE PLAN
MARION COUNTY
FLORIDA

DATE: 2/2023
PROJECT NO.: 36300-23-400
SHEET NUMBER: C01

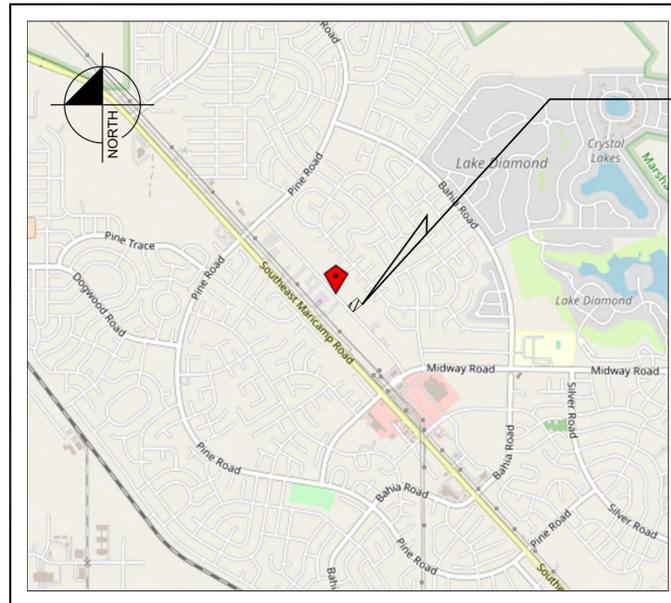
PROJECT AREA: 0.85 ACRES 37,002 SF
TOTAL IMPERVIOUS AREA: 0.47 ACRES 20,584 SF (56%)
TOTAL PERVIOUS AREA: 0.38 ACRES 20,584 SF (44%)

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

Signature: [Signature] Date: 07/06/23
ADAN ORDONEZ

PARCEL ID: # 9007-0101-18
PRIME KEY: # 1347441

SECTION 5, TOWNSHIP 16S, RANGE 23E



LOCATION MAP
SCALE: 1:400

NOTE

- CONSTRUCTION MATERIALS QUALITY AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH MARION COUNTY AND FDOT SPECIFICATIONS AND STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THIS PROJECT IS NOT IN AN ENVIRONMENTALLY SENSITIVE OVERLAY ZONE.
- THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE X.
- PROJECT IS WITHIN THE PRIMARY SPRING PROTECTION OVERLAY ZONE.
- THIS PROPOSED PROJECT HAS NOT BEEN GRANTED CONCURRENCY APPROVAL AND/OR GRANTED AND/OR RESERVED ANY PUBLIC FACILITY CAPACITIES. FUTURE RIGHTS TO DEVELOP THE PROPERTY ARE SUBJECT TO A DEFERRED CONCURRENCY DETERMINATION, AND FINAL APPROVAL TO DEVELOP THE PROPERTY HAS NOT BEEN OBTAINED. THE COMPLETION OF CONCURRENCY REVIEW AND/OR APPROVAL HAS BEEN DEFERRED TO LATER DEVELOPMENT REVIEW STAGES, SUCH AS, BUT NOT LIMITED TO, MASTER PLAN, PRELIMINARY PLAT, IMPROVEMENT PLAN, FINAL PLAT, SITE PLAN, OR BUILDING PERMIT REVIEW.
- NO CHANGE TO THE WORK AS SHOWN ON THE APPROVED PLANS SHALL BE MADE WITHOUT NOTIFICATION TO AND APPROVAL BY THE OFFICE OF THE COUNTY ENGINEER.
- OWNER, FREEDOM INVESTMENTS L.L.C., WILL BE RESPONSIBLE FOR MAINTENANCE AND MANAGEMENT OF THE COMMON AREAS AND IMPROVEMENTS.
- PEAK HOUR TRIPS ADDED BY PROJECT: 7 TRIPS PER HOUR

UTILITY PROVIDERS

WATER/SEWER
MARION COUNTY UTILITIES
11800 SE US HIGHWAY 441
BELLEVIEW, FL 34420
(352) 307-6000

ENGINEER:
LINN ENGINEERING & DESIGN
P.O. BOX 140024
ORLANDO, FL 32814
CONTACT: GREGORY T. CHATELAIN, P.E.
PHONE: 407-775-5194
EMAIL: greg@linnengineering.com

SURVEYOR :
HARTLEY SURVEYING, INC
283 TIGERLILLY COURT
ALTAMONTE SPRINGS, FL 32714
407-383-6978
407-788-9415 (FAX)
LB #7197

OWNER/APPLICANT:
FREEDOM INVESTMENTS LLC
ADANINVESTMENTS@ADANORDONEZ.COM
ADDRESS: 1911 MORNING DRIVE,
ORLANDO, FL 32809
CONTACT INFORMATION: ALEJANDRO
GUTIERREZ - (407)223-2109

DRAWING INDEX

- C01 COVER PAGE
- C02 GENERAL NOTES
- C03 EXISTING CONDITIONS AND DEMOLITION PLAN
- C04 SITE PLAN
- C04A AERIAL MAP
- C05 PAVING, GRADING AND DRAINAGE PLAN
- C06 UTILITY PLAN
- C06A LIFT STATION DETAILS
- C07-C09 UTILITY DETAILS
- C10 FIRE TRUCK ROUTE
- SWPPP-1,2 EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN
- S1 SURVEY

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811
Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

I HEREBY CERTIFY THAT THESE PLANS AND CALCULATIONS WERE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE MARION COUNTY LAND DEVELOPMENT CODE (LDC), EXCEPT AS WAIVED

Drawing name: Z:\Projects\36300-Adan Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\C01 Midway Terrace Multi Family - Cover C01.dwg by: Workstation 8 Oct 16, 2023 7:58am

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 HILL LAND 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 ADJACENT TO THE SITE, REMOVE OR CAP AS NECESSARY.
3. THE CONTRACTOR SHALL EXERCISE CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-483-4770 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 (E 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 FEDERAL REGISTER OF REGULATIONS 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.
IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN "ON-SITE PIPING PERMIT" (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITIES. THIS PERMIT MUST BE OBTAINED BY A QUALIFIED LICENSED PLUMBING CONTRACTOR (OR CLASS A GENERAL CONTRACTOR) PRIOR TO THE START OF CONSTRUCTION. THESE PLANS AND ANY SUBSEQUENT REVISIONS TO THESE PLANS, INCLUDING ANY CHANGES TO THE PERMIT, SHALL BE SUBJECT TO THE APPROVAL CONDITIONS OF THIS PERMIT.
11. THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION, REDUCTION, AND/OR RESIZING, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.
12. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.
13. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
14. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS/CONTRACTORS. THE CONTRACTOR SHALL COMPANIES; IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE HIS/HER ACTIVITIES ACCORDINGLY.
15. ALL DISTURBED AREAS WITHIN THE FOOT R/W SHALL BE SOODED WITH ARGENTINE BARRA SOD.
16. 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-236.
17. ALL DIMENSIONS ARE TO FACE OF CURB.
18. ALL CONSTRUCTION SHALL MEET MANUPALITY STANDARDS AND SPECIFICATIONS.

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 "AS-BUILT" INFORMATION SHALL INCLUDE THE EXACT LOCATIONS OF ALL UTILITIES AND STRUCTURES FOR ALL UTILITIES INSTALLED, AS WELL AS GROUND BREAK LOCATIONS AND ELEVATIONS FOR PROPOSED CONSTRUCTION. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY (C.O.) PURPOSES WILL BE MADE UNTIL THIS INFORMATION HAS BEEN RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.

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 MAINTAINED. THE CONTRACTOR SHALL MAINTAIN THE DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE 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.
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. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEDED, 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 TO BE 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 UNIT) OR 20 NTU (NAPHELMUTZ TURBIDITY UNITS), ABOVE BACKGROUND LEVELS.
3. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, 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. MUCK, PEAT, BURNED 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'S ENGINEERS. 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 EXISTING AREAS 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 SPOT 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 EDGES 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 CURBS 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 PAVED).
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 AGENCIES SHOULD ANY TESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.

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 EXCEPT OF WIRED DND AND FLARED DND SECTIONS, WHICH ARE NOT INCLUDED IN LENGTHS.
4. ALL DRAINAGE STRUCTURE GRATES AND COVERS, EITHER EXISTING OR PROPOSED SHALL BE TRAFFIC RATED FOR 14-20 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: REMOVAL OF THE TREE OR REMOVAL OF THE TREE TO BE REMOVED. 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 GROUND SOIL WILL BE UTILIZED FOR STABILIZATION OF THE PROPOSED STORMWATER RETENTION FACILITY. MUCK-GROWN SOIL MAY BE UTILIZED FOR STABILIZATION OF THE SLOPE 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 INSPECTIONS.
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 INSPECTED 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 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.
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.
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 SHELF, LOCATED ON ONE SIDE OF THE SEWER FORCE 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.

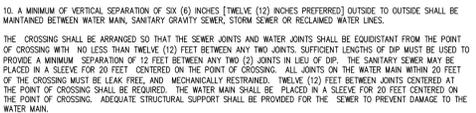
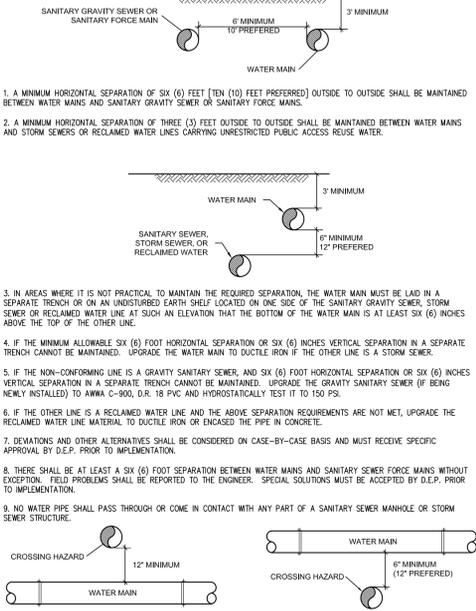
- THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER JOINTS ON THE WATER MAIN TO PREVENT DAMAGE TO THE WATER MAIN.
3. ALL PVC PIPE SHALL BE SOLID WALL POLYVINYL CHLORIDE PIPE AND COMPLY WITH ASTM D 3034 AND ALL APPLICABLE ASTM DOCUMENTS AS COVERED IN SECTION 02, 2 OF ASTM D 3034. MAIN LINES SHALL BE A MINIMUM OF 8" DIAMETER, AND LATERALS SHALL BE A MINIMUM 6" DIAMETER.
4. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE NOTED ON PLANS.
5. 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 ALL PVC PIPE, AND SHALL COMPLY WITH ASTM 1477, ASTM D3034 & ASTM F699. JOINTS SHALL COMPLY WITH ASTM D322.
6. 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 C476.
7. 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%.
8. ALL SANITARY SEWER WORK SHALL CONFORM WITH APPLICABLE MUNICIPALITY ENGINEERING STANDARDS MANUAL.
9. 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.

WATER SYSTEM NOTES:

- 11. SANITARY SEWER MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE MAIN LINES.
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. SOD TESTS ARE TO BE PERFORMED 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 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-888 FOR CONCRETE PIPE, ASTM E-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES.
4. CONTRACTOR TO PERFORM APPROPRIATE DEFLECTION TESTS FOR ALL FLEXIBLE PIPE. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
A. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
B. USING A RIGID SHALL OR MANHOLE FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 3/8" OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON CLASS AS 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/TURBIDITY 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 DP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 12 FEET BETWEEN ANY TWO (2) JOINTS IN LEAD OF DP. 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 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).
11. WHEN THERE IS LESS THAN 6" VERTICAL CLEARANCE BETWEEN THE WATER MAIN AND STORM SEWER, THE WATER MAIN SHALL BE PLACED IN A SLEEVE OR 20 FEET COVERED ON THE POINT OF CROSSING. ONE (1) LENGTH OF PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
12. IF THE NON-CROSSING 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 ANNA C-90 DR. 18 PVC AND HYDROSTATICALLY TEST IT TO 150 PSI.
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 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 EXISTING LINES, WHERE IT IS NOT POSSIBLE TO MAINTAIN THE REQUIRED SEPARATION, 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 ANNA C151/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 DEVELOPMENT. PRIVATE HYDRANTS SHALL ALSO COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARD NFPA 244. PRIVATE FIRE SERVICE 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 BUILDINGS), TO ASSURE ADEQUATE FLUSHING AND DIRECTION/CHORINATION.
27. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ANNA 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 ANNA 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 ANNA C-90 DR-18 JOINTS SHALL BE RUBBER GASKETED PUSH-ON CONFORMING TO ASTM D1869. FOR PIPES LESS THAN 4", THEY SHALL MEET THE REQUIREMENTS OF SECTION 05.1.1 OF THE CITY'S STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION
30. ALL POLYVINYL CHLORIDE PIPE SHALL BE LEAD WITH AN INSULATED 1/2 GAUGE 3/16" O.D. SOLID STAINLESS COPPER WIRE WOUND AROUND THE PIPE FORMING COMPLETE SPIRAL JOINTS OF PIPE. THIS WIRE IS TO BE CONTINUOUS WITH VALVES MADE ONLY BY METHODS APPROVED BY THE ENGINEER. THIS WIRE IS TO BE SECURED 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 RE-RIS AND VALVE 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.
44. ALL UNSUITABLE MATERIALS UNDER WATER PIPES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO NINETY-FIVE PERCENT (95% MAXIMUM DENSITY AT TWO PERCENT (2.0%) MORE OR LESS OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MOODED PROCTOR TEST (ASTM D1557).
45. CONTRACTOR IS TO ADJUST ANY UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN OUT MANHOLES, CATCH BASINS, INLETS, ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
46. A SIGN SHALL BE PLACED AT IRRIGATED AREAS WITH THE WORDS "IRRIGATION BY REUSE WATER. DO NOT DRINK".
47. CONTRACTOR SHALL NOTIFY THE MUNICIPALITY PUBLIC UTILITIES CONSTRUCTION DEPARTMENT 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION. PHONE (407) 836-7274
48. ALL UTILITIES CONNECTIONS CONNECTING TO THE CPU SYSTEM SHALL CONFORM TO MUNICIPALITY MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION.
49. ALL UNDERGROUND MAINS SERVING FIRE HYDRANTS OR FIRE PROTECTION SYSTEMS ON PRIVATE PROPERTY MUST BE PERMITTED PRIOR TO INSTALLATION. THE DRAWING SHALL INDICATE THAT ALL UNDERGROUND PIPE MAINS WILL BE INSTALLED IN ACCORDANCE WITH NFPA 24, 2016 EDITION, "STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES".

DEWATERING NOTES:

- 1. DURING THE EXCAVATION OF THE STORMWATER PONDS, THE CONTRACTOR MUST CONSTRUCT A SEDIMENT BASIN TO PROVIDE A DISCHARGE POINT FOR DEWATERING. THE SEDIMENT BASIN CAN BE BUILT IN THE PROPOSED EXCAVATION AREA OF A POND OR IT CAN BE A BORED AREA ABOVE GROUND. ALL DEWATERING MUST BE HELD IN THE SEDIMENT AREA UNTIL THE WATER IS CLEAR SUCH THAT THERE WOULD BE NO TURBID DISCHARGE. AFTER THE WATER IN THE SEDIMENT BASIN IS CLEAN, THE WATER MAY BE RELEASED INTO THE ON-SITE WETLANDS PROVIDED THERE IS NO ADVERSE IMPACT TO THE EXISTING WATER QUALITY.
2. UNDER NO CIRCUMSTANCES WILL THE DISCHARGE FROM THE DEWATERING BE DIRECTLY INTO ON-SITE WETLANDS.
3. DURING THE EXCAVATION THE CONTRACTOR SHALL NOT PENETRATE AN EXISTING CLAY LAYER. IF THE CONTRACTOR ENCOUNTERS THE CLAY LAYER, HE/SHE IS TO PLACE A MINIMUM OF 2 FEET OF SANDY MATERIAL OVER THE CLAY AND TERMINATE THE DEPTH OF THE EXCAVATION.
4. IF CONTRACTOR ENCOUNTERS SILT/CLAY SAND, WHICH CAUSE THE WATER TO BECOME TURBID, HE/SHE SHALL TREAT THE SEDIMENT BASIN WITH CHEMICAL ADJUSTIVE SUCH AS ALLUM IN ORDER TO PROMOTE THE COAGULATION OF THE PARTICLES WHICH ALLOW THE TO SETTLE AND THE WATER TO BECOME LESS TURBID. IF TURBID WATER ENCOUNTERED DURING EXCAVATION OF THE PONDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY TO DETERMINE THE COURSE OF ACTION THAT IS APPROPRIATE TO ELIMINATE THE TURBIDITY AND ALLOW DISCHARGE THAT MEET WATER QUALITY STANDARDS.
5. THE CONTRACTOR SHALL SEQUENCE THE EXCAVATION OF THE STORMWATER PONDS SUCH THAT A SEDIMENT BASIN WILL BE AVAILABLE FOR THE VARIOUS OPERATIONS REQUIRED WILL BE SITE AND PLAN SPECIFIC. THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION ACTIVITIES.
1.3 SLOPES OF BANKS OF RETENTION/RETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW CONTROL ELEVATION.
1.4 SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJACING ALL CURBING AND AROUND ALL INLETS AND SOD SHALL BE PLACED BEFORE BARRIERS ARE REMOVED.

BEST MANAGEMENT PRACTICES:

- THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF MUNICIPALITY DEVELOPMENT REGULATIONS AND SWMD. THE PLAN ADDRESSES THE FOLLOWING AREAS:
1. GENERAL EROSION CONTROL.
2. PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION.
3. CONTROL OF WIND EROSION.
THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED IMPLIES. THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FOOT NOTED BELOW AND AS NECESSARY FOR EACH APPLICATION.

SECTION 1 GENERAL EROSION CONTROL

- 1.1 GENERAL EROSION CONTROL BMP'S SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL POND SLOPE CHANGES. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION ACTIVITIES.
1.2 CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVER SEEDS AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY SOD/VEGETATION.
1.3 SLOPES OF BANKS OF RETENTION/RETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW CONTROL ELEVATION.
1.4 SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJACING ALL CURBING AND AROUND ALL INLETS AND SOD SHALL BE PLACED BEFORE BARRIERS ARE REMOVED.

SECTION 2 PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION.

- 2.1 SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.
2.2 WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.
2.3 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:
A. GENERAL EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
B. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SOODING AROUND INLETS IS COMPLETE.
5. ALL SWALES, DITCHES AND CHANNELS, CHANNELS LEADING FROM THE SITE SHALL BE SOODED WITH ARGENTINE BARRA WITHIN THREE (3) DAYS OF EXCAVATION.
6. THE CONSTRUCTION OF UNDERGROUND UTILITY CONSTRUCTION, UNDERGROUND UTILITY LINES AND OTHER STRUCTURES SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
A. NOT MORE THAN 100 FEET OF TRENCH SHALL BE OPEN AREA OF PIPE LAYING OPERATIONS AT ONE TIME. A GREATER LENGTH OF OPEN TRENCH IS APPROVED BY THE OWNER'S ENGINEER.
B. WHEREVER CONSISTENT WITH SAFETY AND SPACE CONSIDERATION, EXCAVATED MATERIAL SHALL BE CAST TO THE UPHILL SIDE OF TRENCHES. TRENCH MATERIAL SHALL NOT BE CAST INTO OR UPON THE SLOPE OF ANY STREAM, CHANNEL, ROAD, DITCH OR WATERWAY.
7. ALL EROSION AND SILTATION CONTROL DEVICES SHALL BE MAINTENANCE. TO REQUIRE DAILY INSPECTIONS BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL. EFFORTS AND ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY.
8. STAKED HAY BALES WILL NOT BE UTILIZED FOR EROSION, SEDIMENT AND TURBIDITY CONTROL.

TESTING AND INSPECTION REQUIREMENTS (WATER):

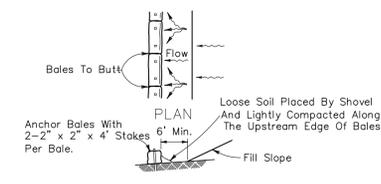
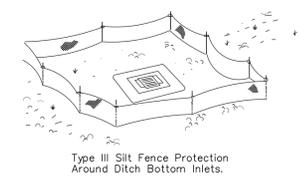
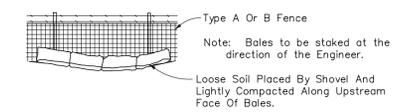
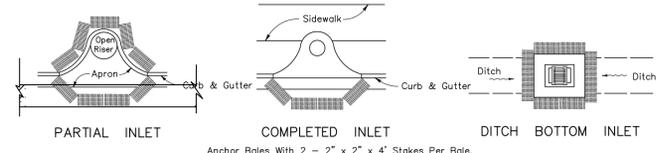
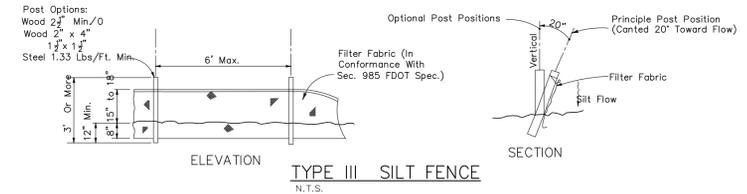
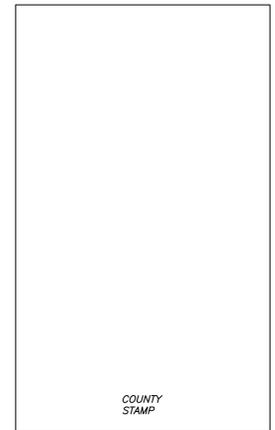
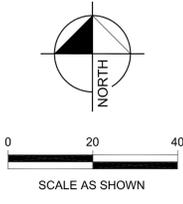
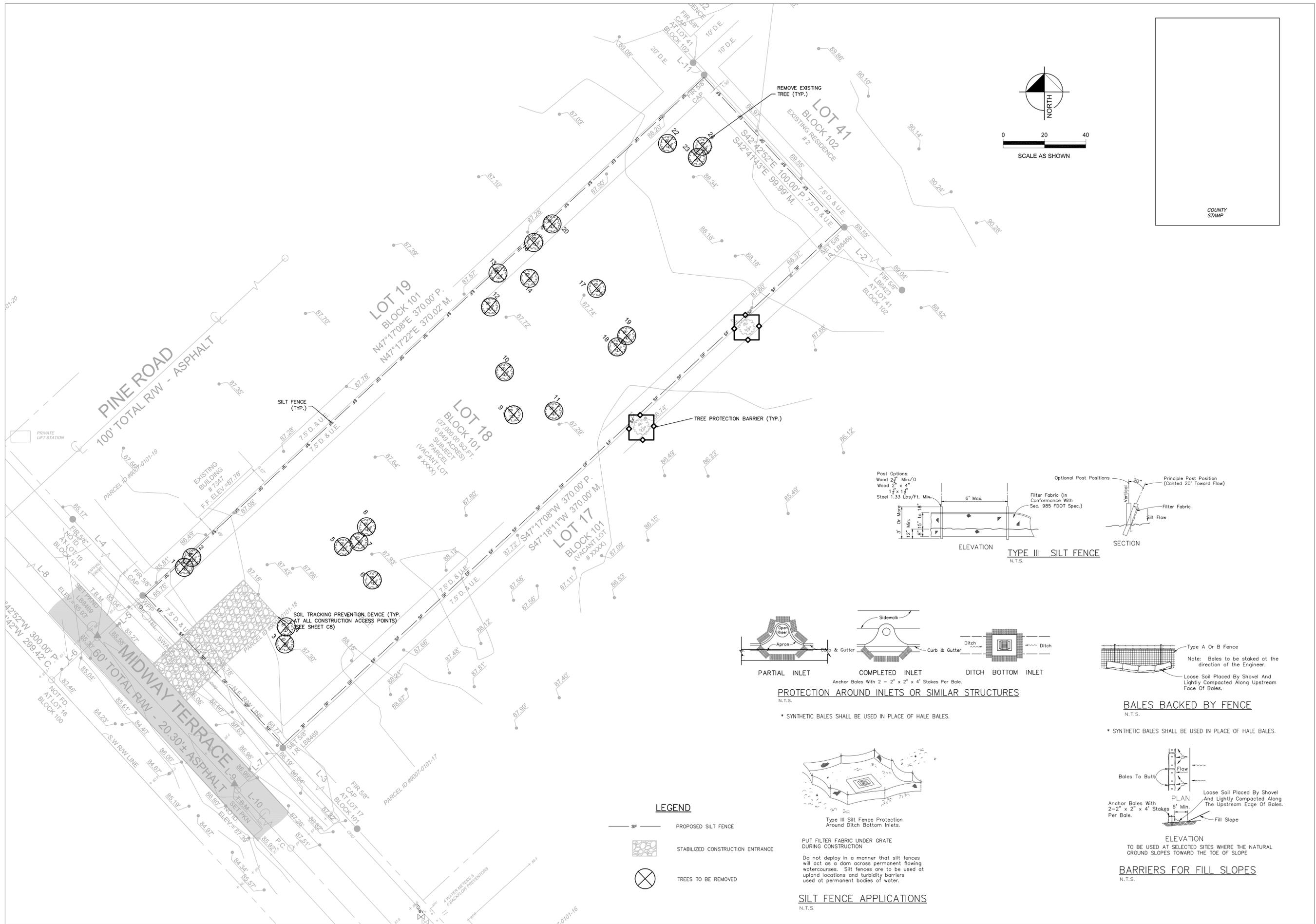
- 1. ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER. PRESSURE TESTS TO BE IN ACCORDANCE WITH MUNICIPALITY UTILITIES DEPARTMENT SPECIFICATIONS. CONTRACTOR TO NOTIFY THE OWNER'S ENGINEER AND APPLICABLE AGENCY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING TESTS.
2. CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING, AND OBTAIN CLEARANCE OF DOMESTIC AND FIRE LINE WATER SYSTEMS. COPIES OF ALL BACTERIOLOGICAL TEST RESULTS ARE TO BE SUBMITTED TO THE OWNER'S ENGINEER FOR CERTIFICATION PURPOSES.
1.1. CONSENT WITH ORDINANCE NO. 06-2019 THE CITY HAS GRANTED A WASTE HAULER EXCLUSIVE RIGHTS TO HAUL WASTE AND REUSE (RESIDENTIAL AND NON-RESIDENTIAL USES) WITHIN THE CITY LIMITS OF DELTONA. THEREFORE, ALL WASTE MANAGEMENT, INCLUDING BUT NOT LIMITED TO, DEBRIS AND OTHER REUSE GENERATED DURING THE LAND CLEARING AND CONSTRUCTION PHASE SHALL BE HAULED BY THE SOLE HAULER GRANTED EXCLUSIVE RIGHTS BY THE CITY.

COUNTY STAMP

SECTION 2 PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION:

- 2.4 HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LIQUORANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD BIKES OR SILT SOCKS AROUND, AND SED

Drawing name: Z:\Projects\36300-Adon Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\C03 Midway Terrace Multi Family - Demo C03.dwg Demo Oct 16, 2023 7:59am by: Workstation 8



- LEGEND**
- PROPOSED SILT FENCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - TREES TO BE REMOVED

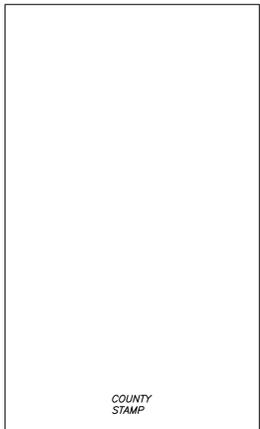
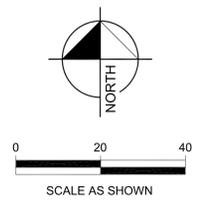
PUT FILTER FABRIC UNDER GRATE DURING CONSTRUCTION

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

SILT FENCE APPLICATIONS
N.T.S.

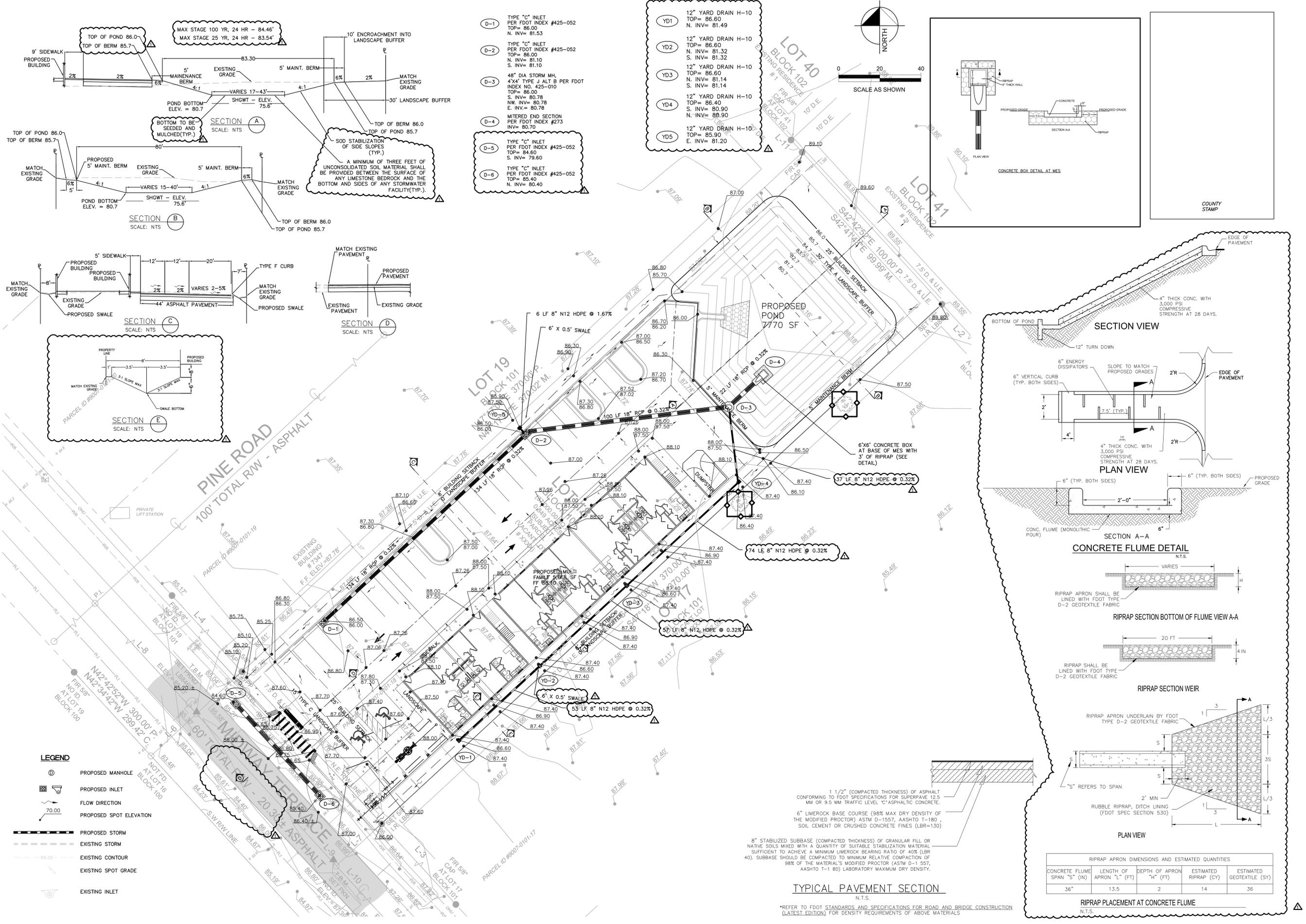
BARRIERS FOR FILL SLOPES
N.T.S.

| | | |
|---|---|--|
| REVISED PER CITY COMMENTS | 07/2023 | IGTC |
| DESIGN ENGINEER: | GREGORY T. CHATELAIN, P.E. | FLORIDA REGISTRATION NUMBER: 90573 |
| DESIGNED BY GTC | GTC | CHECKED BY GTC |
| DRAWN BY GTC | GTC | SCALE |
| EXISTING CONDITIONS AND DEMOLITION PLAN | | MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN |
| FLORIDA MARION COUNTY | DATE 2/2023 PROJECT NO. 36300-23-400 SHEET NUMBER | REVISIONS No. DATE BY |
| LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 clinn@linnengineering.com CA LIC. NO. 31710 | | C03 |



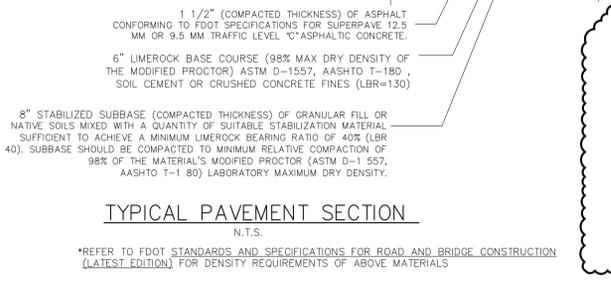
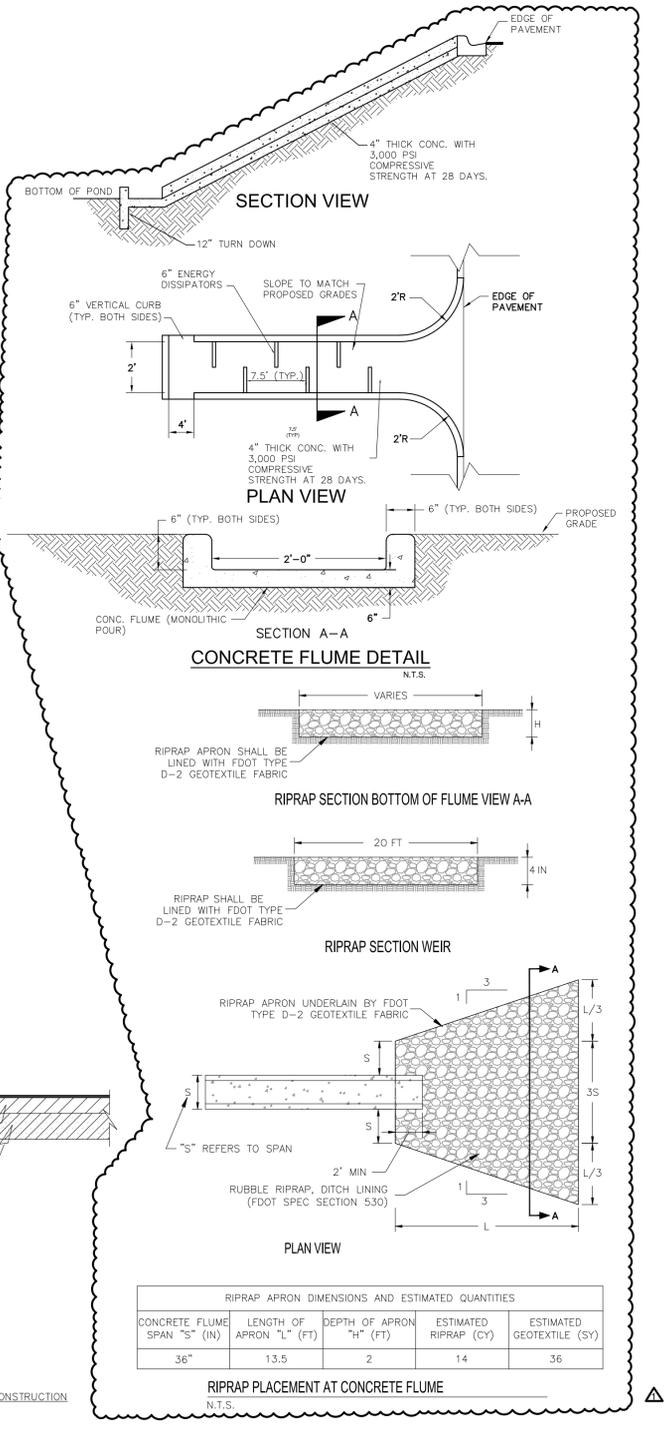
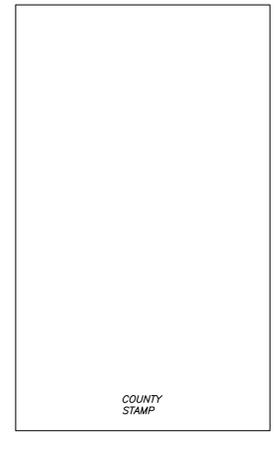
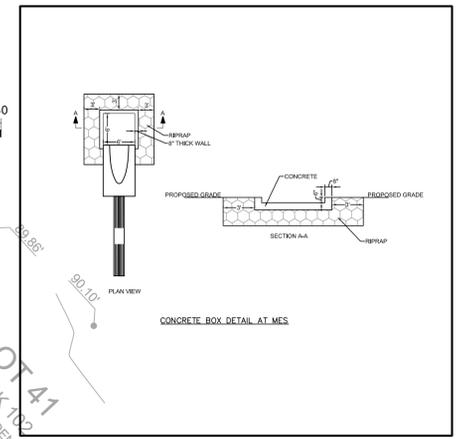
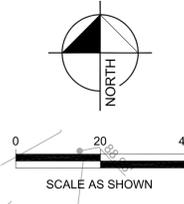
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|---|-----|-----------------------------|----------------------------|-----------------------------|-------|
| DATE 2/2023 | | PROJECT NO. 36300-23-400 | | SHEET NUMBER | |
| MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN | | MARION COUNTY FLORIDA | | AERIAL MAP | |
| DESIGNED BY | GTC | DESIGN ENGINEER | GREGORY T. CHATELAIN, P.E. | FLORIDA REGISTRATION NUMBER | 90573 |
| DRAWN BY | GTC | SEAL | | | |
| CHECKED BY | GTC | | | | |
| SCALES NOTED | | | | | |
| REVISIONS | No. | REVISIONS | No. | DATE | BY |
| REVISER PER CITY COMMENTS | | REVISER PER CITY COMMENTS | | 07/2023 | GTC |
| LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 clim@linnengineering.com CA LIC. NO. 31710 | | | | | |

Drawing name: Z:\Projects\36300-Adon Investments\23-400 Midway Terrace Lot 18 - PGD.C05.dwg Layout1 Oct 16, 2023 8:03am by: Workstation 8



- (D-1) TYPE "C" INLET PER FDOT INDEX #425-052
TOP= 86.00
N. INV= 81.53
- (D-2) TYPE "C" INLET PER FDOT INDEX #425-052
TOP= 86.00
N. INV= 81.10
S. INV= 81.10
- (D-3) 48" DIA STORM MH, 4'x4" TYPE J ALT B PER FDOT INDEX NO. 425-010
TOP= 86.00
S. INV= 80.78
NW. INV= 80.78
E. INV= 80.78
- (D-4) MITERED END SECTION PER FDOT INDEX #273
INV= 80.70
- (D-5) TYPE "C" INLET PER FDOT INDEX #425-052
TOP= 84.60
S. INV= 79.60
- (D-6) TYPE "C" INLET PER FDOT INDEX #425-052
TOP= 85.40
N. INV= 80.40

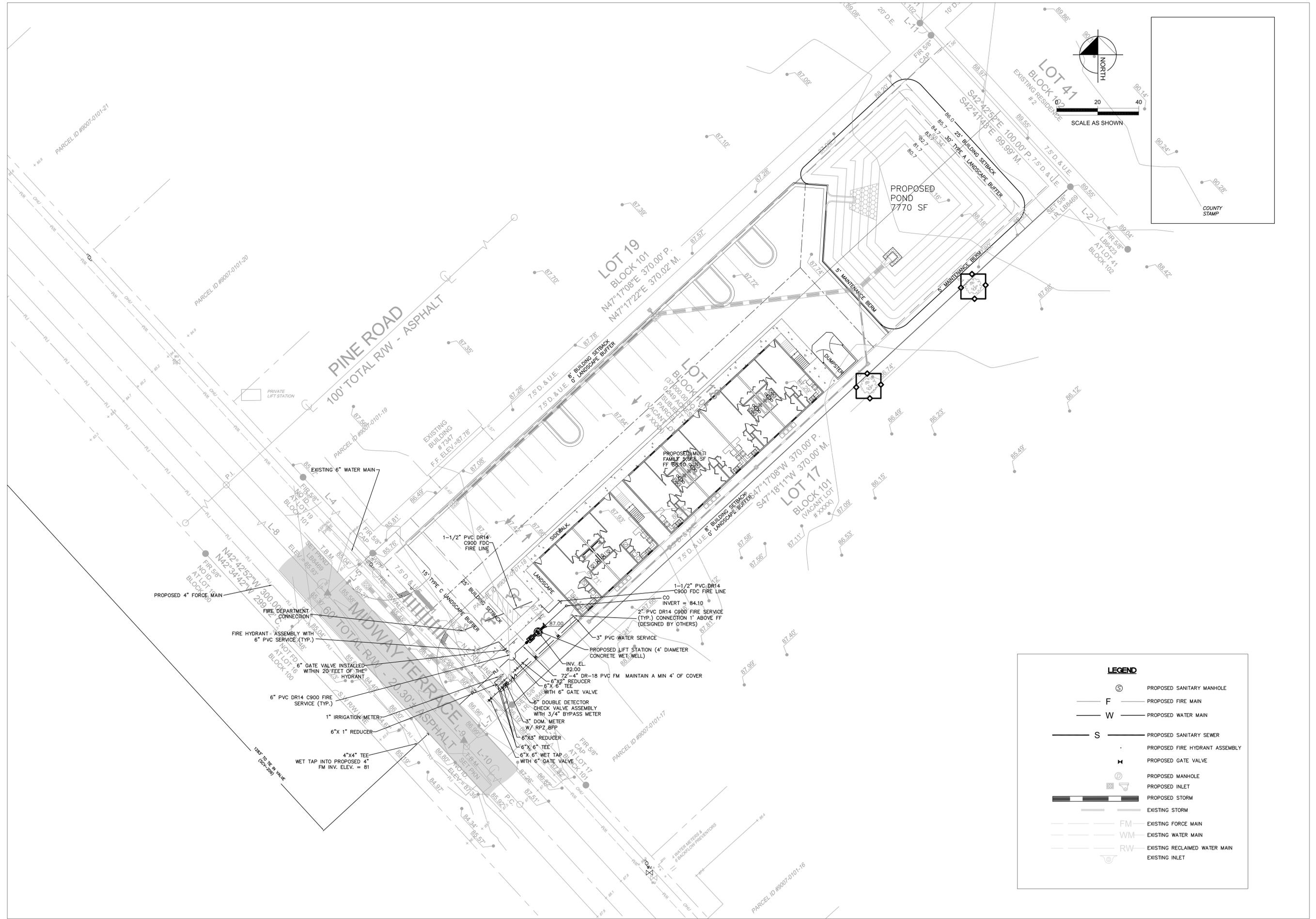
- (YD1) 12" YARD DRAIN H-10
TOP= 86.60
N. INV= 81.32
S. INV= 81.32
- (YD2) 12" YARD DRAIN H-10
TOP= 86.60
N. INV= 81.14
S. INV= 81.14
- (YD3) 12" YARD DRAIN H-10
TOP= 86.60
N. INV= 81.14
S. INV= 81.14
- (YD4) 12" YARD DRAIN H-10
TOP= 86.40
S. INV= 80.90
N. INV= 80.90
- (YD5) 12" YARD DRAIN H-10
TOP= 85.90
E. INV= 81.20



| CONCRETE FLUME SPAN "S" (IN) | LENGTH OF APRON "L" (FT) | DEPTH OF APRON "H" (FT) | ESTIMATED RIPRAP (CY) | ESTIMATED GEOTEXTILE (SY) |
|------------------------------|--------------------------|-------------------------|-----------------------|---------------------------|
| 36" | 13.5 | 2 | 14 | 36 |

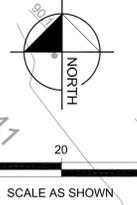
| | |
|---|--|
| <p>07/2023 GTC</p> <p>REVISIONS</p> <p>NO. DATE BY</p> | <p>DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573</p> <p>DESIGNED BY: GTC DRAWN BY: GTC CHECKED BY: GTC</p> <p>SCALE: AS NOTED</p> |
| <p>PAVING, GRADING, AND DRAINAGE PLAN</p> | |
| <p>MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN</p> | |
| <p>DATE: 2/2023 PROJECT NO: 36300-23-400 SHEET NUMBER: C05</p> | |

Drawing name: Z:\Projects\36300-Adan Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\06 MidwayTerrace Multi Family - Utility C06.dwg Layout1 Oct. 16, 2023 8:03am by: Workstation 8



LEGEND

- PROPOSED SANITARY MANHOLE
- PROPOSED FIRE MAIN
- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED GATE VALVE
- PROPOSED MANHOLE
- PROPOSED INLET
- PROPOSED STORM
- EXISTING STORM
- EXISTING FORCE MAIN
- EXISTING WATER MAIN
- EXISTING RECLAIMED WATER MAIN
- EXISTING INLET



| | | | |
|---|-----------|--|----|
| REVISIONS | | DATE | BY |
| No. | REVISIONS | | |
| <p>DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573 SEAL</p> | | | |
| <p>DESIGNED BY: GTC DRAWN BY: GTC CHECKED BY: GTC</p> | | <p>SCALE(S) NOTED: DESIGNED BY: GTC DRAWN BY: GTC CHECKED BY: GTC</p> | |
| <p>DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573 SEAL</p> | | <p>DESIGNED BY: GTC DRAWN BY: GTC CHECKED BY: GTC</p> | |
| <p>REVISIONS PER CITY COMMENTS:</p> | | <p>07/2023 GTC</p> | |
| <p>UTILITY PLAN</p> | | | |
| <p>MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN</p> | | | |
| <p>MARION COUNTY FLORIDA</p> | | | |
| <p>DATE 2/2023</p> | | <p>PROJECT NO. 36300-23-400</p> | |
| <p>SHEET NUMBER C06</p> | | | |

Drawing name: Z:\Projects\36300-Adon Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\0506-Midway Terrace Multi-Family - lift station details.dwg Oct 16, 2023 8:04am by: Workstation 8

NOTE: COMPLETE SYSTEM TO BE SUPPLIED BY:
RILEY & COMPANY, INC.
SANFORD, FL 32773
(407)265-9963

NO SUBSTITUTIONS - NO ALTERNATES
LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes a 20 Yr. Warranty. Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.
 After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible inside wetwell.

PUMPS: (3 YR. WARRANTY)
 Submersible grinder pumps shall be HOMA Model RC20056. The pumps shall be installed in the H-20 GP FRP wetwell utilizing a slide rail system. The grinder unit shall be capable of macerating materials normally found in domestic and commercial sewage into a fine slurry which will pass through the pump and the discharge piping.
 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, or 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 the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.
 The pump motor grinder shaft shall be AISI 430F SS threaded to take the pump impeller and the grinder impeller.
 Upper & lower mechanical seals shall be Silicon Carbide vs Silicon Carbide.

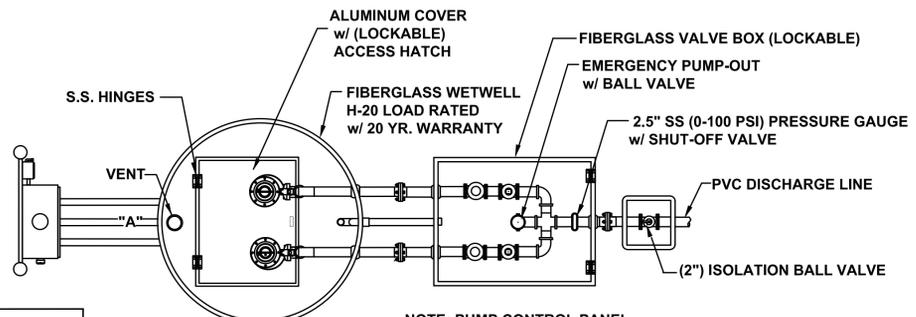
DUPLEX CONTROL PANEL: (3 YR. WARRANTY)
 To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minimum of 10 years history in the manufacturing of electrical control panels.
 The enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep fiberglass with 4 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) 4" x 4" Minimum Diameter
 1- ea. Alarm Horn (minimum 95 DCB)
 1- ea. Generator Receptacle w/ weatherproof cover (SCM460 -UL 1686)
 1- ea. Alarm Silence Pushbutton

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. Motor Contactors
 1- ea. Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
 1- ea. Lightning Arrestor
 1- ea. Silence Relay Module
 1- ea. Duplex Alternator w/ Pump Selector Switch
 1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger For The High Level Alarm System
 20- ea. Terminals For Field Connections
 6- ea. Terminals For Motor Connections (Single Phase Only)
 7- ea. Grounding Lugs
 1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. 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
 1- ea. Emergency Circuit Breaker
 1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
 2- ea. Short Circuit Protectors w/ Auxiliary Contacts
 1- ea. Control Circuit Breaker
 2- ea. Seal Failure Indicator Lights
 1- ea. Hand-Off-Auto Selector Switches
 2- ea. Pump Run Pilot Lights
 1- ea. Power On Pilot Light
 2- ea. Elapse Time Meters (Non-Resetable)
 1- ea. GFI Duplex Convenience Outlet

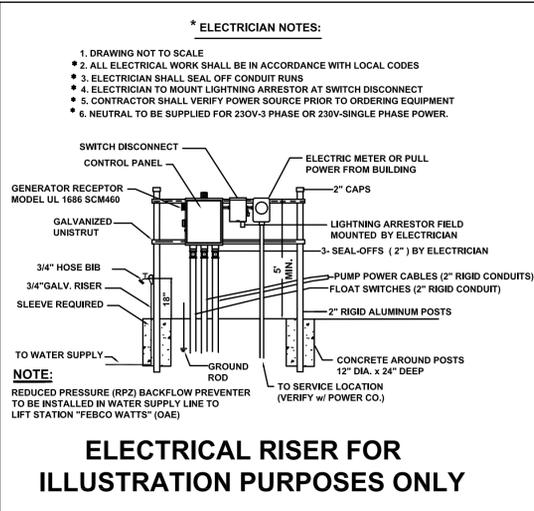
RILEY & Company, Inc. (H-20 GP)

w/ BATTERY BACK-UP FOR AUDIO - VISUAL ALARMS ©



NOTE: PUMP CONTROL PANEL SHALL BE LOCATED 3 FEET FROM WETWELL PERIMETER AT POINT "A"

| PUMP DATA | HIGH HEAD | RUNOUT | ELEVATIONS | |
|---------------------------|-----------|---------|------------------------|-------|
| PRIMARY PUMP CAPACITY | 80 GPM | 82 GPM | TOP OF WETWELL | 87.00 |
| PRIMARY TDH | 38' TDH | 33' TDH | INLET INVERT | 82.00 |
| PUMP MANUFACTURER | HOMA | HOMA | HIGH LEVEL ALARM (HLA) | 81.50 |
| PUMP MODEL # | RC20056 | RC20056 | 2nd PUMP ON (LAG) | 81.00 |
| R.P.M. | 3450 | 3450 | 1st PUMP ON (LEAD) | 80.50 |
| HORSEPOWER | 2.5 | 2.5 | PUMPS OFF (OFF) | 80.00 |
| IMPELLER DIAMETER | 5 7/16" | 5 7/16" | BOTTOM OF WETWELL | 78.00 |
| ELECTRICAL/ VOLTS / PHASE | 230V/3 | 230V/3 | WETWELL DIAMETER | 48" |
| FULL LOAD AMPS/ PER PUMP | 8.40 | 8.40 | | |
| PUMP DISCHARGE SIZE | 2" | 2" | | |



NOTES:

- Water service with hose bibb and reduced pressure backflow preventer to be installed near lift station. (See Electrical Riser Illustration)
- System shall be operated and maintained to provide uninterrupted service as required by DEP Chapter 62-604.500.
- Approved Operation & Maintenance Manual (O&M) shall be kept available for operation and maintenance personnel
- A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public (Lettering shall be min. 2" in height).
- INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance for the complete system.

PRIVATE SANITARY SEWER PUMP STATION

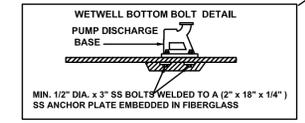
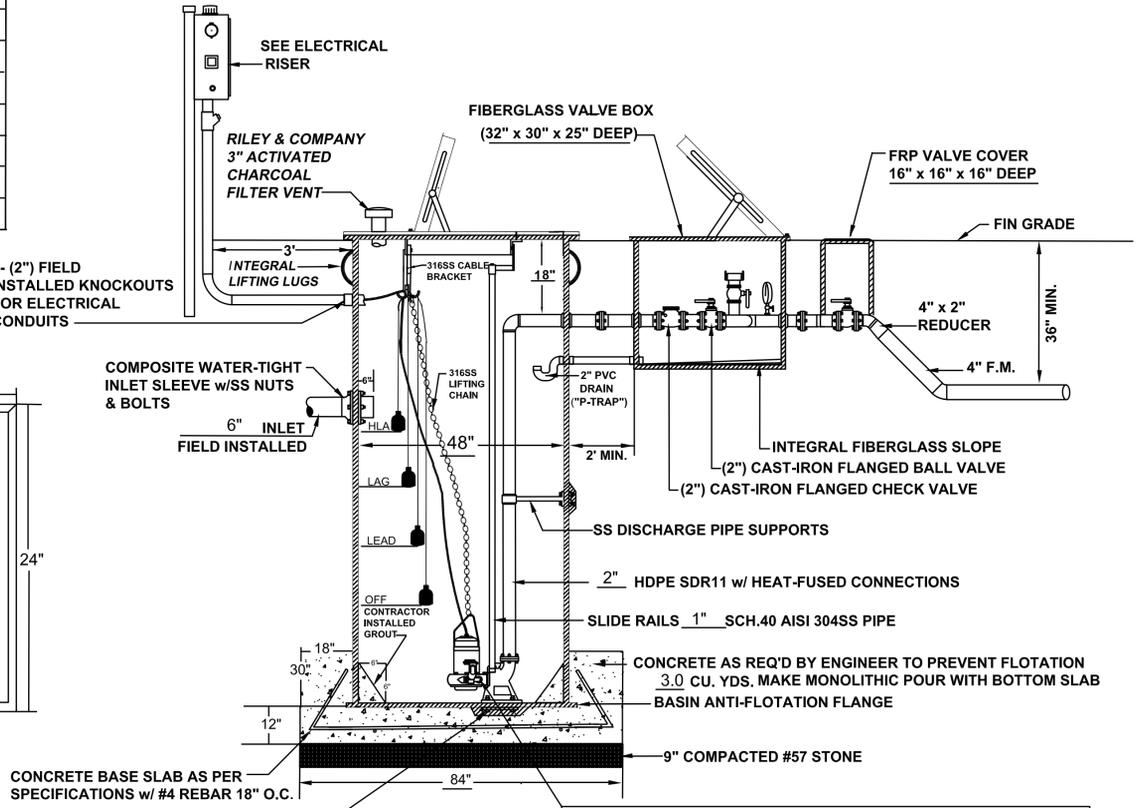
IN CASE OF EMERGENCY CONTACT THE FOLLOWING NUMBERS:

FACILITY OWNED BY:
 NAME: _____
 PHONE NUMBER: _____

FACILITY MAINTAINED BY:
 NAME: _____
 PHONE NUMBER: _____

STATION NUMBER: _____

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



MODEL RC0194 FLUSH VALVE
 WHEN THE PUMP STARTS, THE VALVE OPENS FOR APPROXIMATELY 10-30 SECONDS, SHOOTING OUT A POWERFUL JET STREAM THAT FLUSHES ALL SOLIDS INTO SUSPENSION, READY TO BE PUMPED AWAY. BECAUSE THE FLUSHING SEQUENCE IS AN INTEGRAL PART OF THE PUMPING CYCLE, FLUSHING OCCURS EVERY TIME THE PUMP STARTS. THIS REDUCES GREASE AND SOLIDS BUILD-UP AND REDUCES UNPLEASANT ODORS.

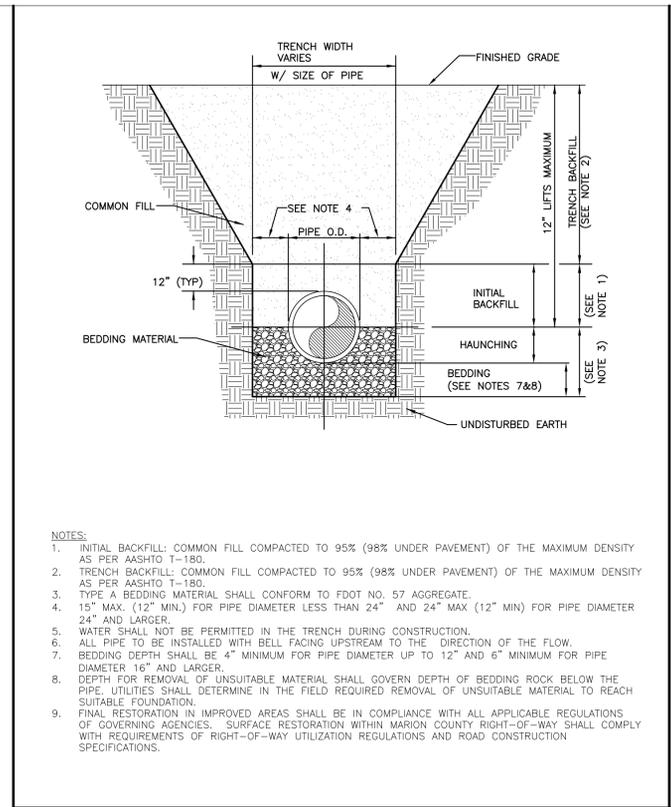
NOTE: ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE ONLY AND IS NOT INCLUDED AS PART OF THE ENGINEERING DESIGN OR CERTIFICATION BY THE PROFESSIONAL ENGINEER. ANY ELECTRICAL DESIGN NEEDED FOR THE LIFT STATION SHALL BE CONFIRMED AND CERTIFIED BY A PROFESSIONAL ELECTRICAL ENGINEER.

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

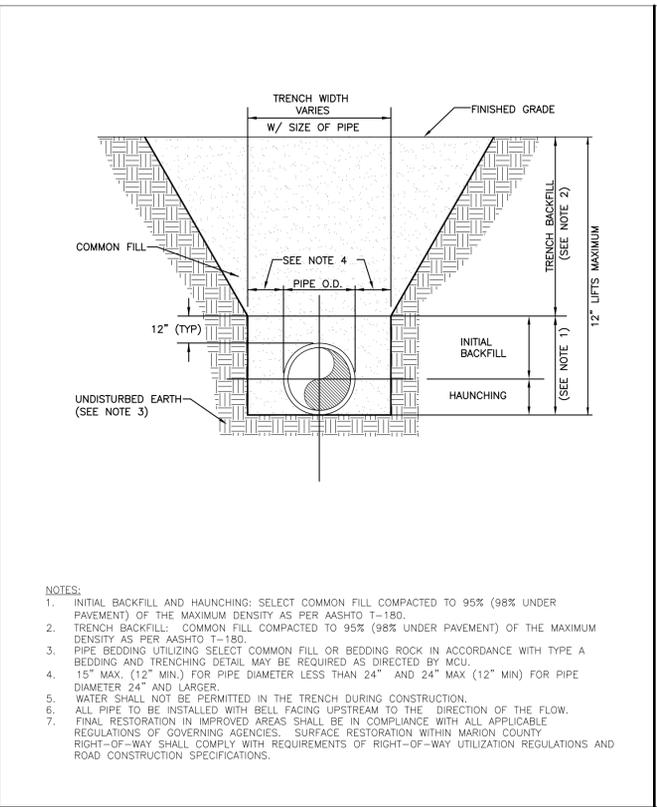
05-03-2023

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|---|---------|-----|-----------|------|----|
| REVISIONS | DATE | BY | REVISIONS | DATE | BY |
| 1 | 07/2023 | GTC | | | |
| LIFT STATION DETAILS MAJOR SITE PLAN | | | | | |
| MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MARION COUNTY, FLORIDA | | | | | |
| DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. DESIGNED BY: GTC DRAWN BY: GTC CHECKED BY: GTC FLORIDA REGISTRATION NUMBER: 90573 SEAL | | | | | |
| LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 clin@linnengineering.com CA LIC. NO. 31710 | | | | | |
| DATE: 2/2023 PROJECT NO. 36300-23-400 SHEET NUMBER C06A | | | | | |

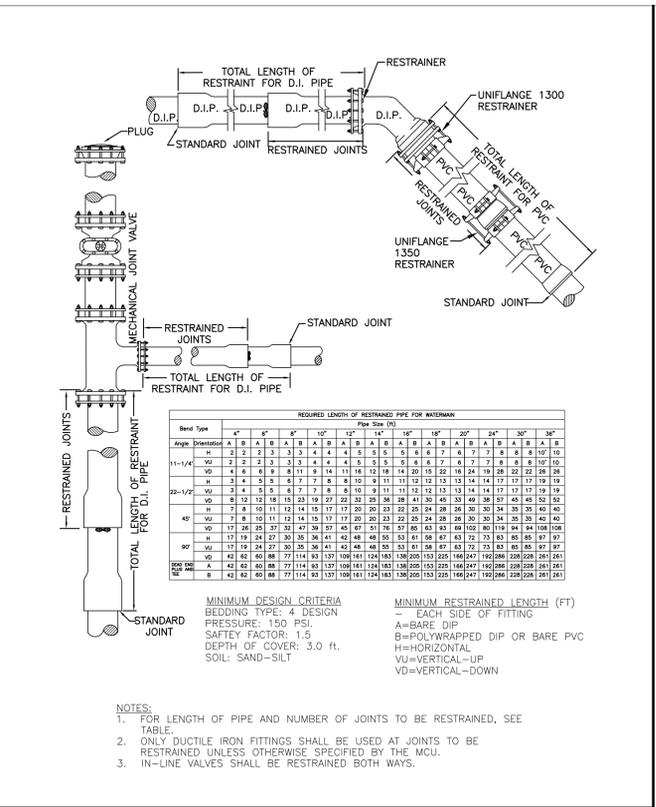
Drawing name: \\cnd-server\z\Projects\36300-Adon Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\007 MidwayTerrace Multi Family - Details C07.dwg Layout1 Oct 16, 2023 7:54am by: Doug



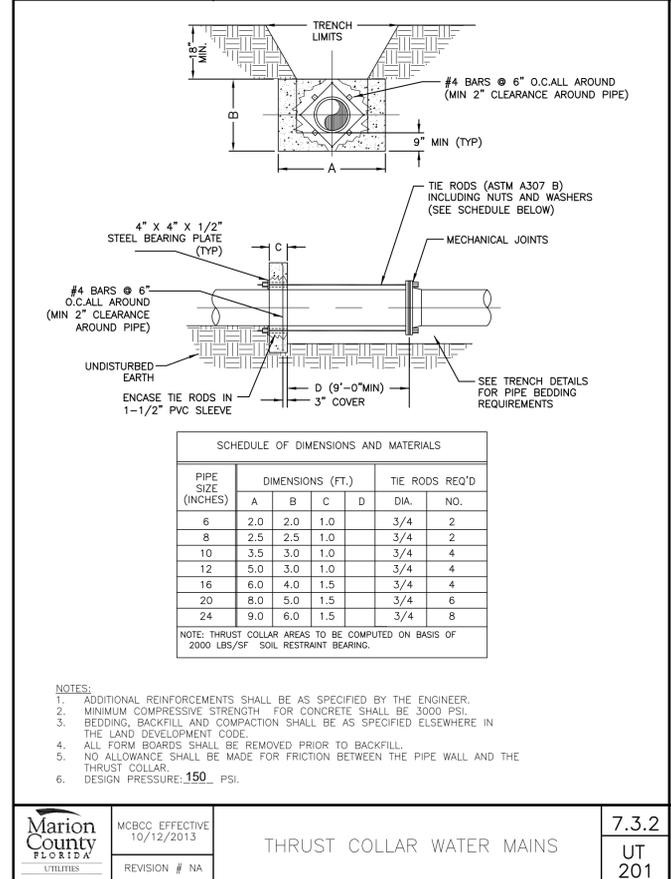
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| REVISION # 1 | | | |



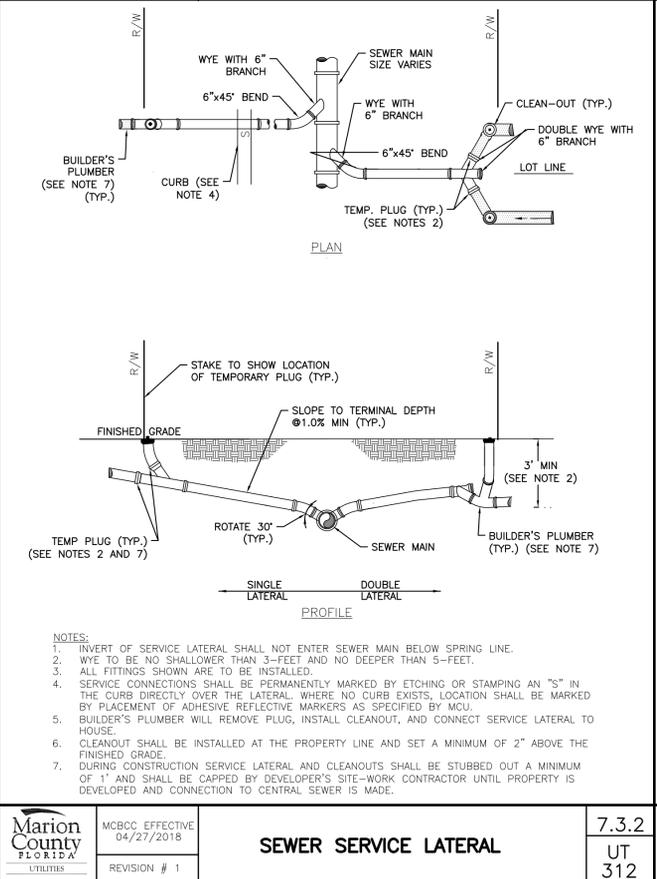
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| REVISION # 1 | | | |



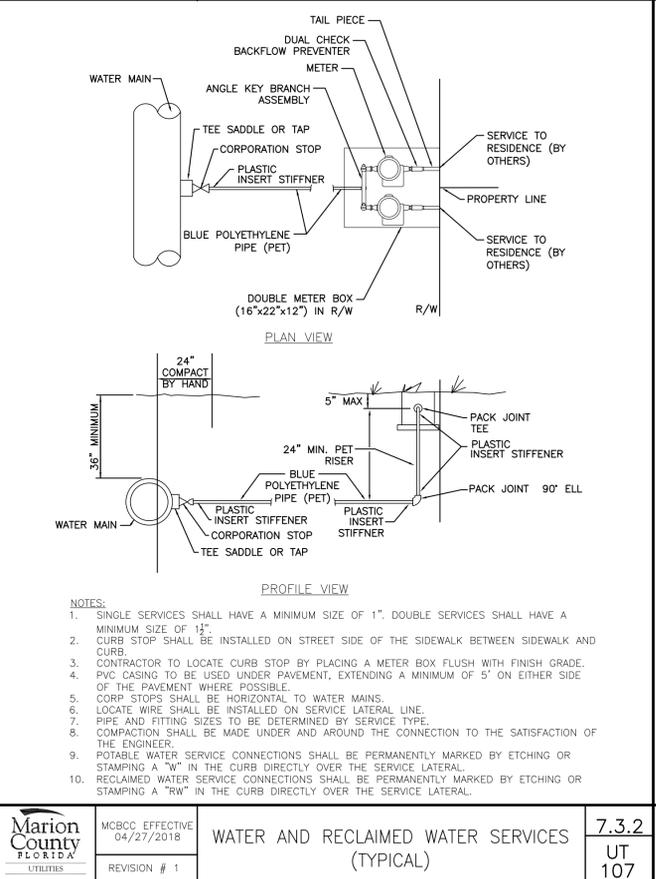
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| Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/27/2018 | RESTRAINED PIPE TABLE WATER AND RECLAIMED MAINS | 7.3.2 UT 200 |
| REVISION # 1 | | | |



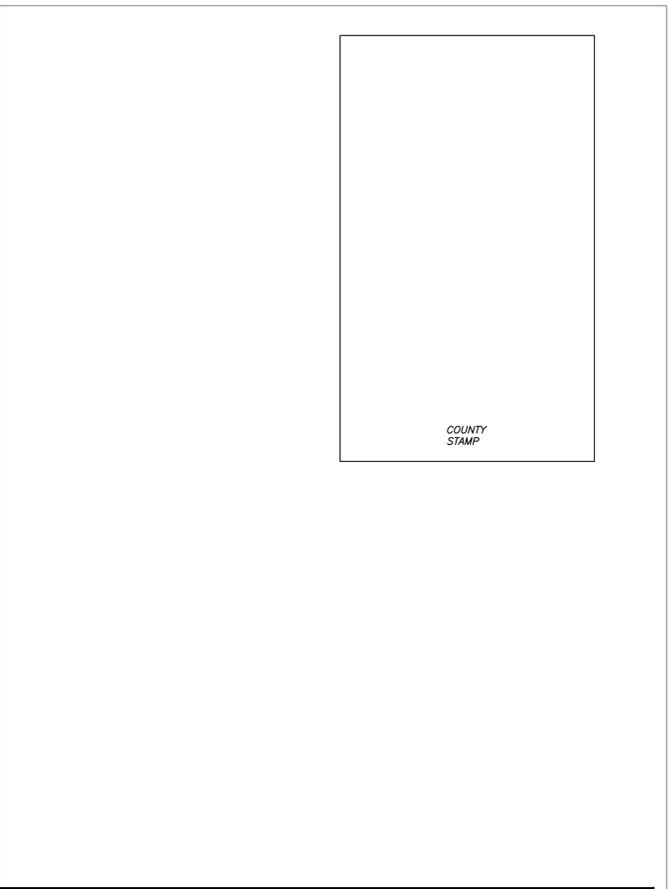
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|--|-------------------------------|----------------------------------|---------------------------|
| Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 10/12/2013 | THRUST COLLAR WATER MAINS | 7.3.2 UT 201 |
| REVISION # NA | | | |



| | | | |
|--|-------------------------------|------------------------------|---------------------------|
| Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/27/2018 | SEWER SERVICE LATERAL | 7.3.2 UT 312 |
| REVISION # 1 | | | |



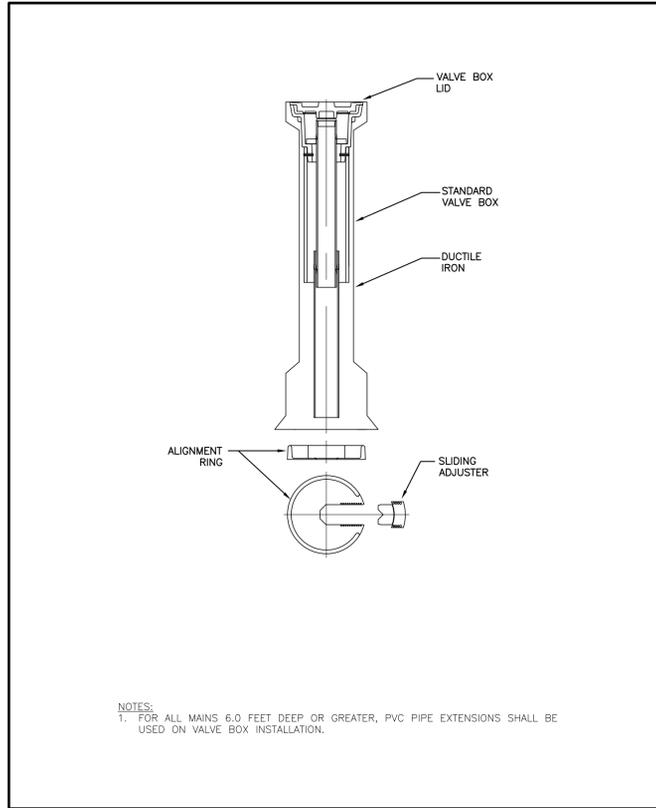
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|--|-------------------------------|--|---------------------------|
| Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 04/27/2018 | WATER AND RECLAIMED WATER SERVICES (TYPICAL) | 7.3.2 UT 107 |
| REVISION # 1 | | | |



| | | | |
|--|-------------------------------|--------------------------------|---------------------------|
| Marion County FLORIDA UTILITIES | MCBCC EFFECTIVE 10/12/2013 | TYPICAL VALVE BOX COVER | 7.3.2 UT 110 |
| REVISION # NA | | | |

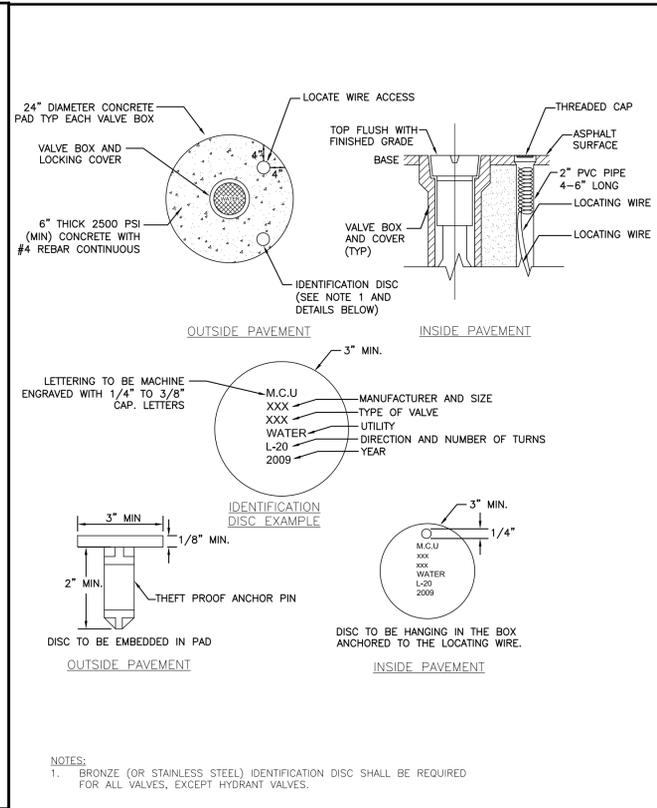
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|---|------------------|---|--|--------------|
| DESIGNED BY: GTC | SCALE: AS NOTED | DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. | REVISIONS | DATE |
| DRAWN BY: GTC | DESIGNED BY: GTC | FLORIDA REGISTRATION NUMBER: 90573 | NO. | |
| CHECKED BY: GTC | CHECKED BY: GTC | SEAL | | |
| Marion County FLORIDA UTILITIES | | LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 clinn@linnengineering.com CA LIC. NO. 31710 | REVISED PER CITY COMMENTS 07/2023 GTC | COUNTY STAMP |
| UTILITY DETAILS | | | | |
| MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN | | | | |
| MARION COUNTY, FLORIDA | | | | |
| DATE: 2/2023 PROJECT NO: 36300-23-400 SHEET NUMBER: C07 | | | | |

Drawing name: \\cand-server\z\Projects\36300-Adon Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\C08 MidwayTerrace Multi Family - Details\C08.dwg by: Doug Oct 16, 2023 7:55am Layout1



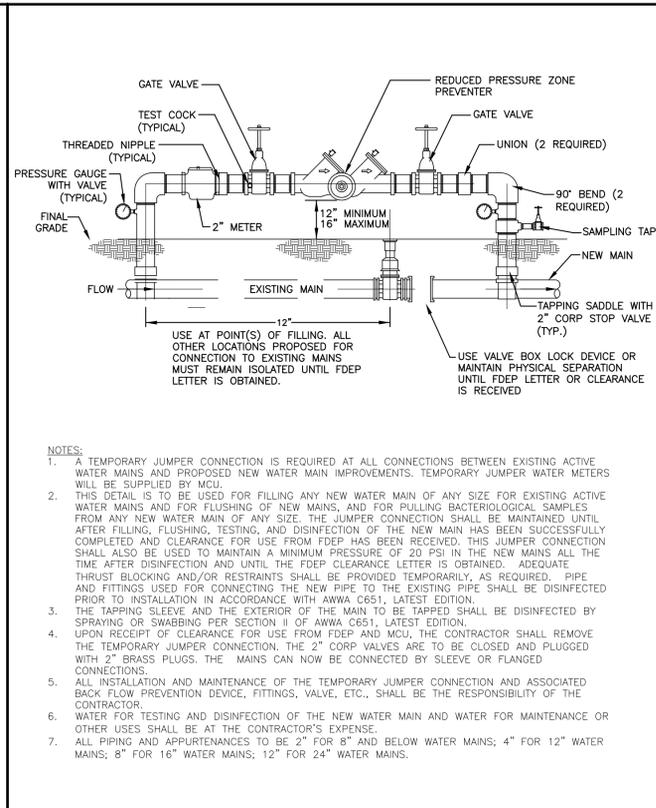
NOTES:
 1. FOR ALL MAINS 6.0 FEET DEEP OR GREATER, PVC PIPE EXTENSIONS SHALL BE USED ON VALVE BOX INSTALLATION.

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| | MCBCC EFFECTIVE 04/27/2018 | 7.3.2 |
| | REVISION # 1 | UT 111 |



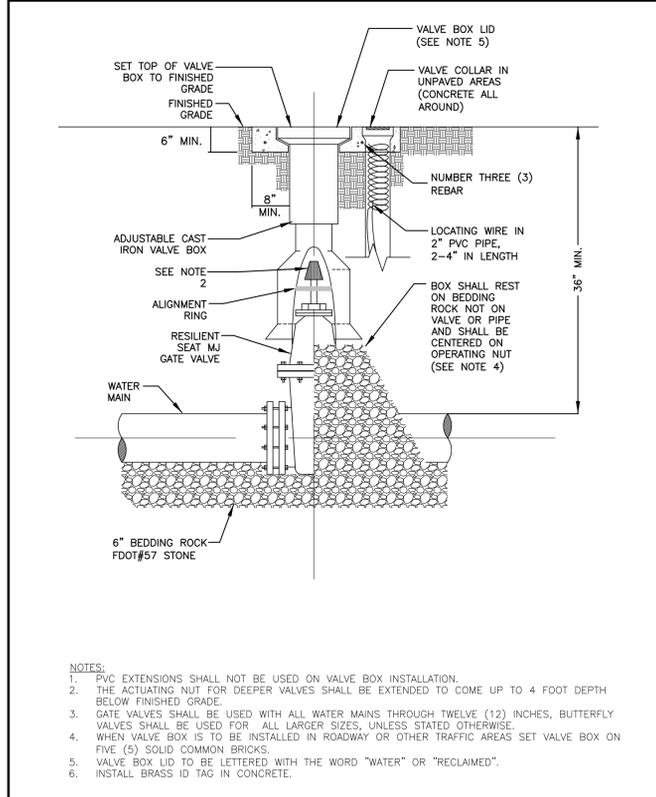
NOTES:
 1. BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.

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| | MCBCC EFFECTIVE 10/12/2013 | 7.3.2 |
| | REVISION # NA | UT 112 |



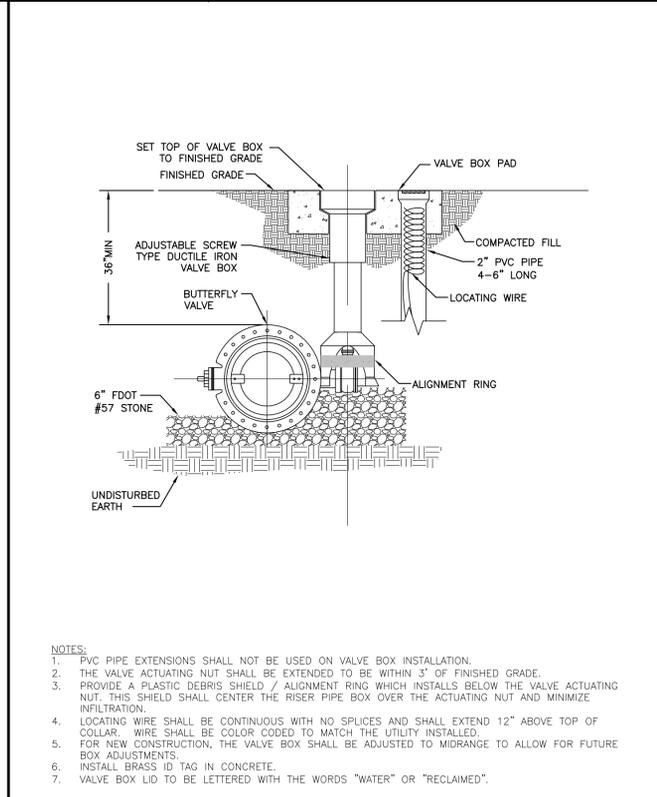
NOTES:
 1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS. TEMPORARY JUMPER WATER METERS WILL BE SUPPLIED BY MCU.
 2. THIS DETAIL IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FOR EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS, AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM FDEP HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION.
 3. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651, LATEST EDITION.
 4. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND MCU, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE 2\"/>

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| | MCBCC EFFECTIVE 04/27/2018 | 7.3.2 |
| | REVISION # 1 | UT 203 |



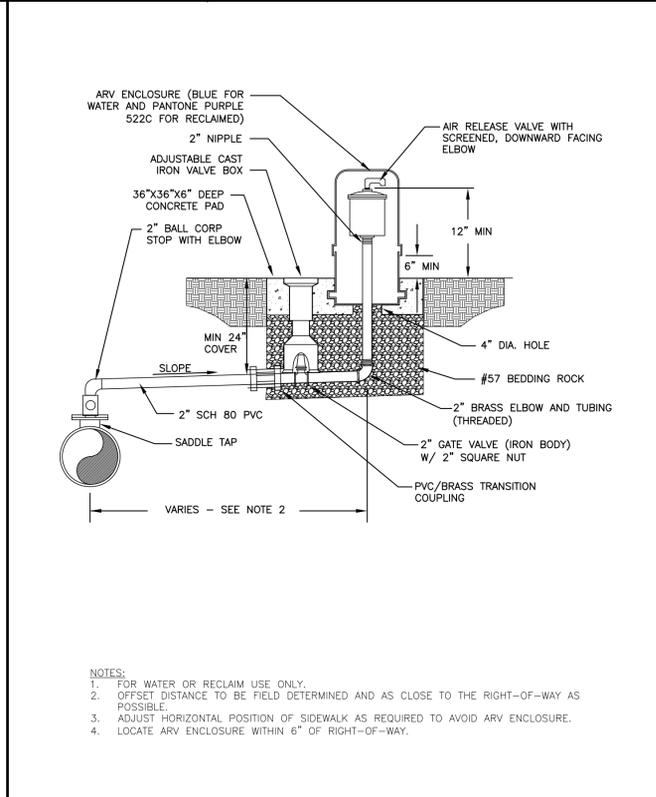
NOTES:
 1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.
 3. GATE VALVES SHALL BE USED WITH ALL WATER MAINS THROUGH TWELVE (12) INCHES, BUTTERFLY VALVES SHALL BE USED FOR ALL LARGER SIZES, UNLESS STATED OTHERWISE.
 4. WHEN VALVE BOX IS TO BE INSTALLED IN ROADWAY OR OTHER TRAFFIC AREAS SET VALVE BOX ON FIVE (5) SOLID COMMON BRICKS.
 5. VALVE BOX LID TO BE LETTERED WITH THE WORD "WATER" OR "RECLAIMED".
 6. INSTALL BRASS ID TAG IN CONCRETE.

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| | MCBCC EFFECTIVE 04/27/2018 | 7.3.2 |
| | REVISION # 1 | UT 204 |



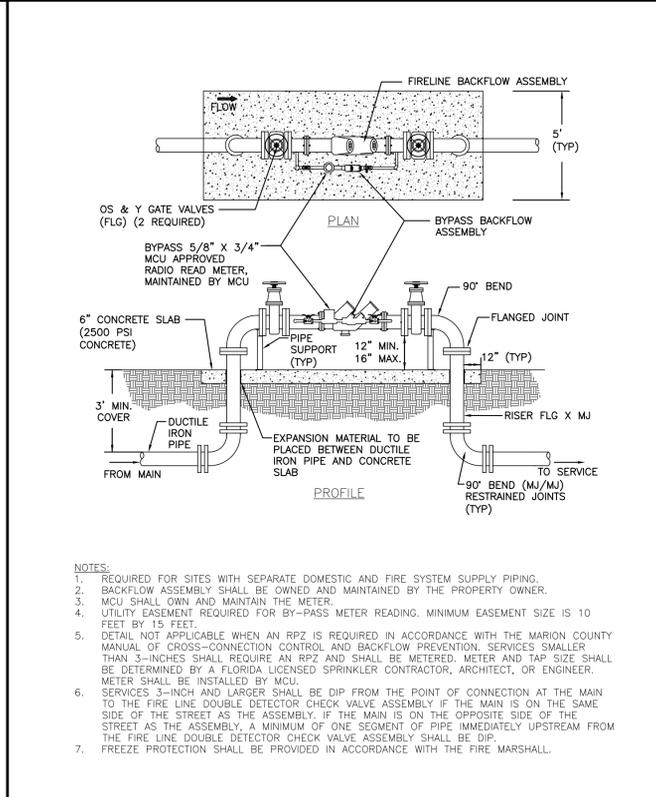
NOTES:
 1. PVC PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 2. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3\"/>

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| | MCBCC EFFECTIVE 10/12/2013 | 7.3.2 |
| | REVISION # NA | UT 205 |



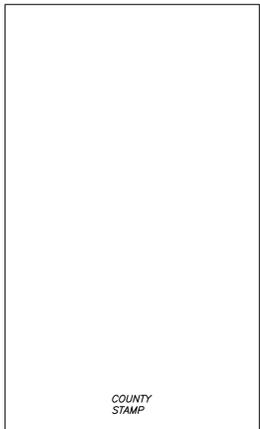
NOTES:
 1. FOR WATER OR RECLAIM USE ONLY.
 2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE.
 3. ADJUST HORIZONTAL POSITION OF SIDEWALK AS REQUIRED TO AVOID ARV ENCLOSURE.
 4. LOCATE ARV ENCLOSURE WITHIN 6\"/>

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| | MCBCC EFFECTIVE 04/27/2018 | 7.3.2 |
| | REVISION # 1 | UT 206 |



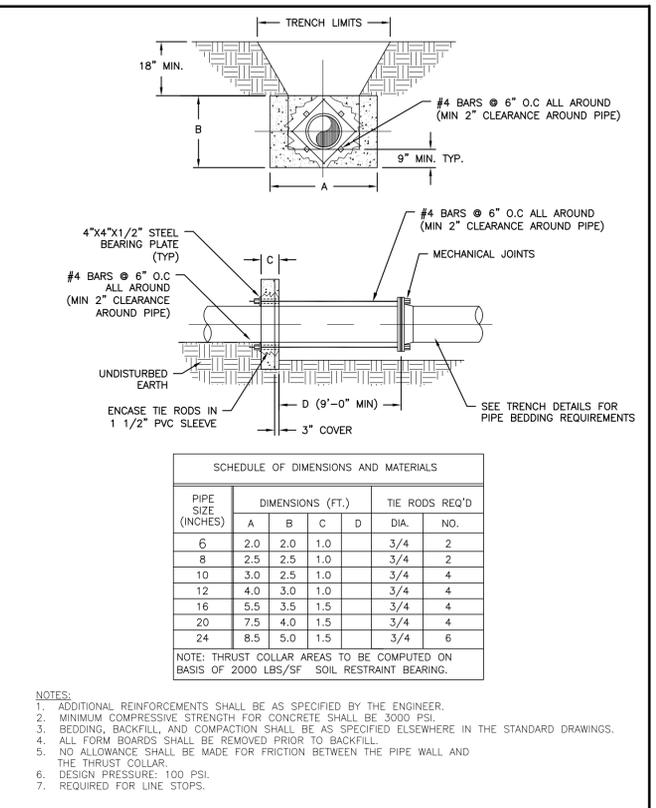
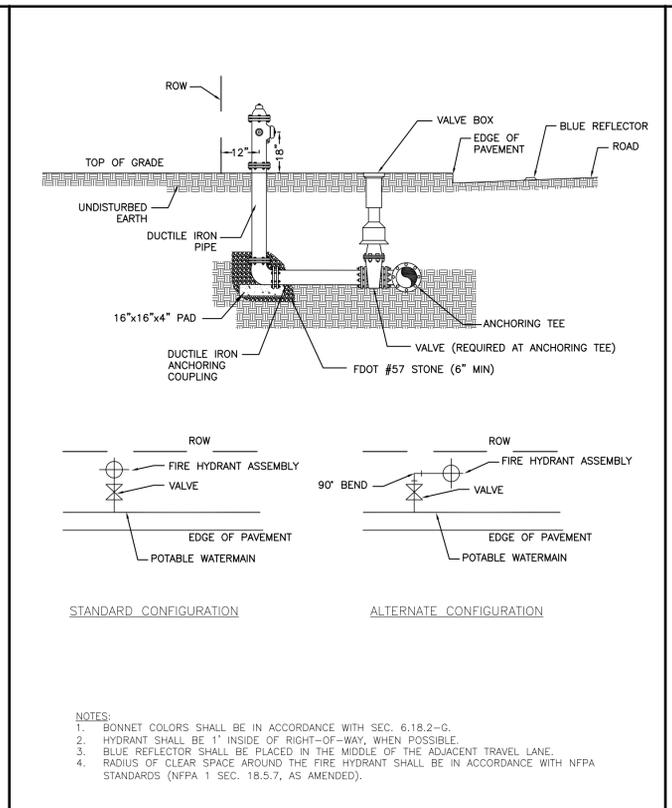
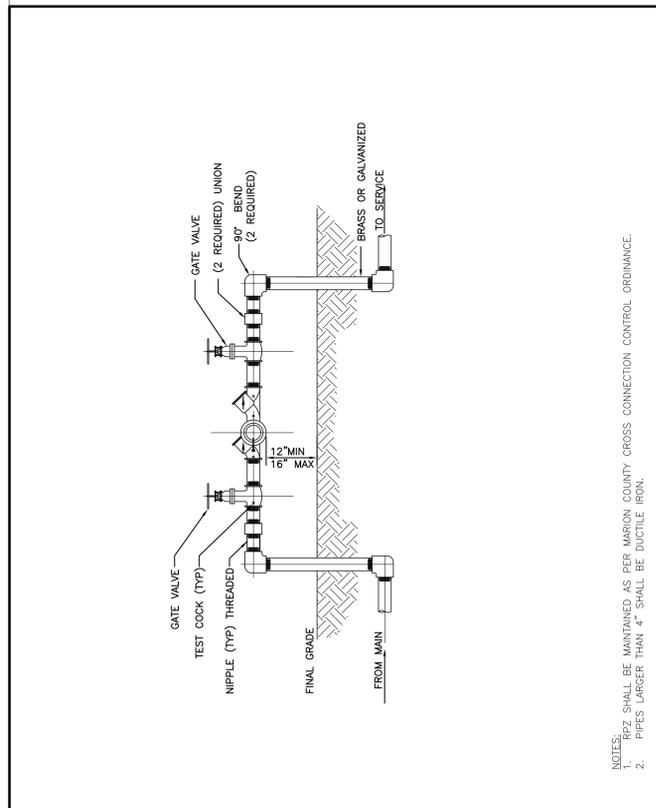
NOTES:
 1. REQUIRED FOR SITES WITH SEPARATE DOMESTIC AND FIRE SYSTEM SUPPLY PIPING.
 2. BACKFLOW ASSEMBLY SHALL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER.
 3. MCU SHALL OWN AND MAINTAIN THE METER.
 4. UTILITY EASEMENT REQUIRED FOR BY-PASS METER READING. MINIMUM EASEMENT SIZE IS 10 FEET BY 15 FEET.
 5. DETAIL NOT APPLICABLE WHEN AN RPZ IS REQUIRED IN ACCORDANCE WITH THE MARION COUNTY MANUAL OF CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION. SERVICES SMALLER THAN 3-INCHES SHALL REQUIRE AN RPZ AND SHALL BE METERED. METER AND TAP SIZE SHALL BE DETERMINED BY A FLORIDA LICENSED SPRINKLER CONTRACTOR, ARCHITECT, OR ENGINEER. METER SHALL BE INSTALLED BY MCU.
 6. SERVICES 3-INCH AND LARGER SHALL BE DIP FROM THE POINT OF CONNECTION AT THE MAIN TO THE FIRE LINE DOUBLE DETECTOR CHECK VALVE ASSEMBLY IF THE MAIN IS ON THE SAME SIDE OF THE STREET AS THE ASSEMBLY. IF THE MAIN IS ON THE OPPOSITE SIDE OF THE STREET AS THE ASSEMBLY, A MINIMUM OF ONE SEGMENT OF PIPE IMMEDIATELY UPSTREAM FROM THE FIRE LINE DOUBLE DETECTOR CHECK VALVE ASSEMBLY SHALL BE DIP.
 7. FREEZE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE FIRE MARSHALL.

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| | MCBCC EFFECTIVE 04/27/2018 | 7.3.2 |
| | REVISION # 1 | UT 208 |



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| LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 cdm@linnengineering.com CA LIC. NO. 31710 | DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573 | SCALE(S) NOTED DESIGNED BY: GTC DRAWN BY: GTC CHECKED BY: GTC | SEAL | REVISIONS No. _____ DATE _____ | 07/2023 GTC |
| UTILITY DETAILS | | | | | |
| MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN | | | | | |
| DATE: 2/2023 PROJECT NO.: 36300-23-400 SHEET NUMBER: C08 | | | | | |

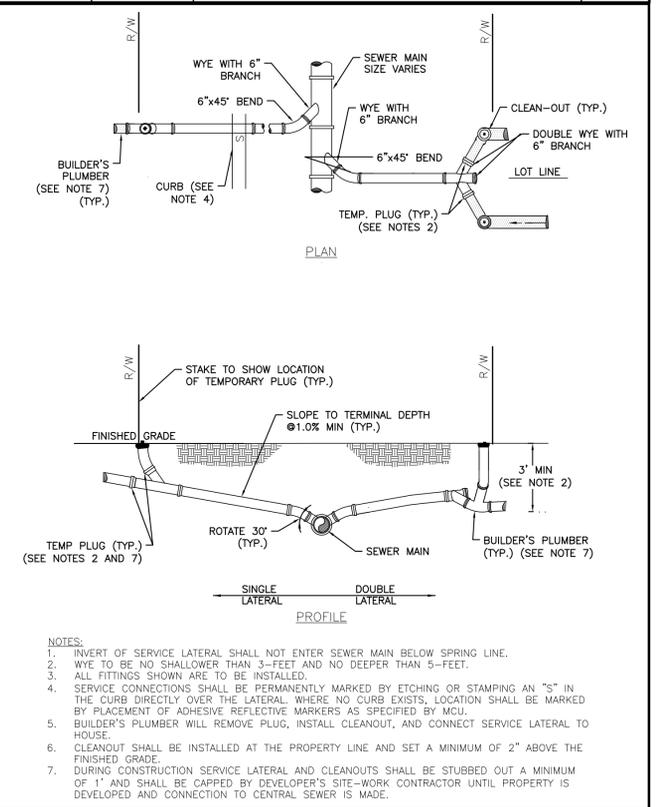
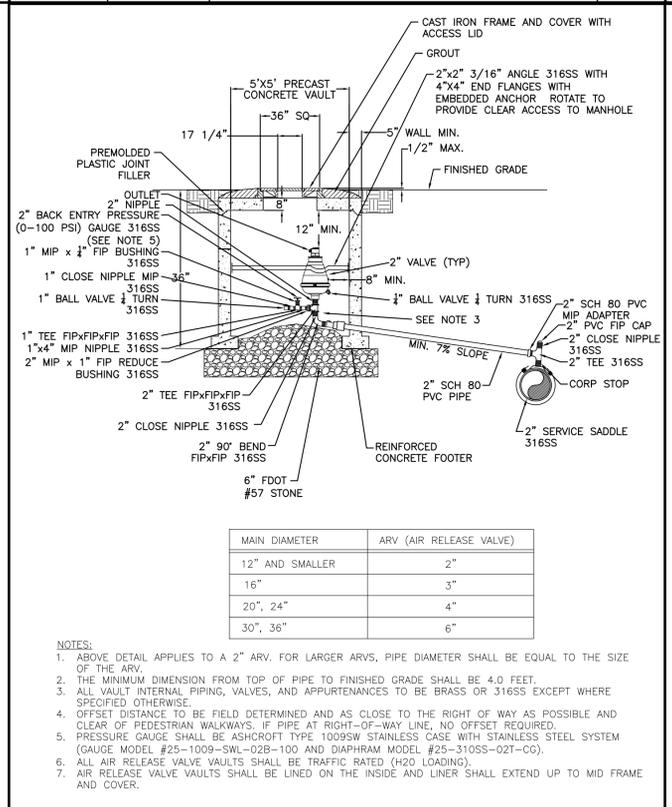
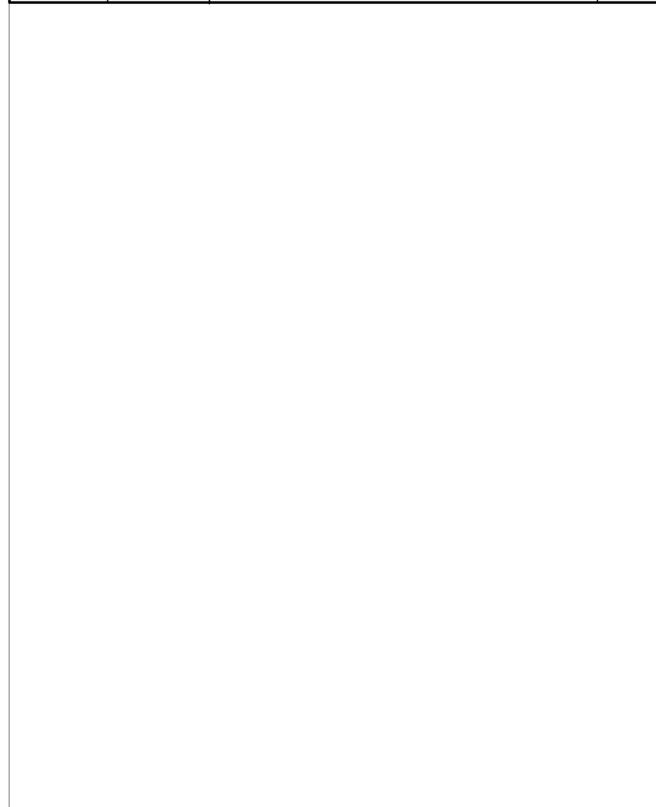
Drawing name: \\cand-server\z\Projects\36300-Adon Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\C09 Midway Terrace Multi Family - Details C09.dwg Layout1 Oct 16, 2023 7:55am by: Doug



MCBCC EFFECTIVE 10/12/2013
 REVISION # NA
REDUCED PRESSURE BACKFLOW PREVENTER
 7.3.2
 UT 209

MCBCC EFFECTIVE 04/27/2018
 REVISION # 1
FIRE HYDRANT ASSEMBLY
 7.3.2
 UT 210

MCBCC EFFECTIVE 10/12/2013
 REVISION # NA
THRUST COLLAR WASTEWATER FORCE MAINS
 7.3.2
 UT 301



MCBCC EFFECTIVE 04/27/2018
 REVISION # 1
AIR OR COMBINATION AIR RELEASE VALVE IN VAULT, WASTEWATER
 7.3.2
 UT 308

MCBCC EFFECTIVE 04/27/2018
 REVISION # 1
SEWER SERVICE LATERAL
 7.3.2
 UT 312

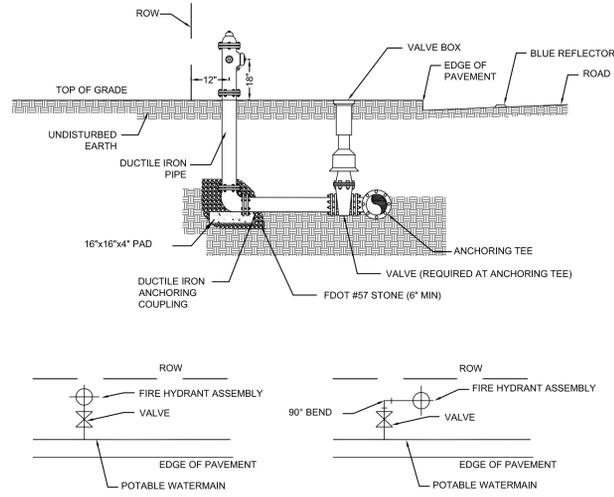
MCBCC EFFECTIVE 04/27/2018
 REVISION # 1
SEWER SERVICE LATERAL
 7.3.2
 UT 312

COUNTY STAMP

TYPICAL SINK CHIMNEY REPAIR DETAIL
N.T.S.

MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN
 MARION COUNTY FLORIDA
 UTILITY DETAILS
 REVISIONS
 NO. DATE BY
 07/2023 GTC
 DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E.
 P.O. BOX 140024 ORLANDO, FL 32814
 PHONE: 407-775-5194
 gchm@linneengineering.com CA LIC. NO. 31710
 SCALE: NOTED
 DESIGNED BY: GTC
 DRAWN BY: GTC
 CHECKED BY: GTC
 SEAL
 DATE: 2/2023
 PROJECT NO. 36300-23-400
 SHEET NUMBER C09

Drawing name: Z:\Projects\36300-Adan Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\C10 MidwayTerrace Multi Family - Details\C10.dwg Layout1 by: Workstation 8 May 03, 2023 10:46am

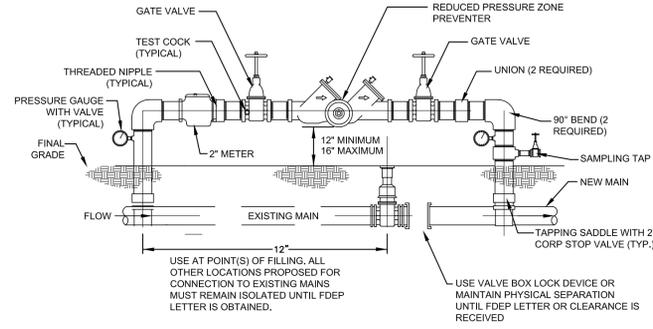


STANDARD CONFIGURATION

ALTERNATE CONFIGURATION

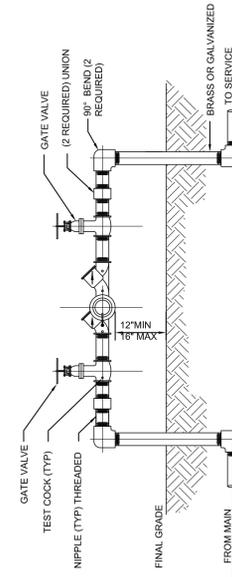
- NOTES:
- BONNET COLORS SHALL BE IN ACCORDANCE WITH SEC. 6.18.2-G.
 - HYDRANT SHALL BE 1" INSIDE OF RIGHT-OF-WAY, WHEN POSSIBLE.
 - BLUE REFLECTOR SHALL BE PLACED IN THE MIDDLE OF THE ADJACENT TRAVEL LANE.
 - RADIUS OF CLEAR SPACE AROUND THE FIRE HYDRANT SHALL BE IN ACCORDANCE WITH NFPA STANDARDS (NFPA 1 SEC. 18.5.7, AS AMENDED).

FIRE HYDRANT ASSEMBLY 210



- NOTES:
- A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS. TEMPORARY JUMPER WATER METERS WILL BE SUPPLIED BY MCU.
 - THIS DETAIL IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FOR EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS, AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM FDEP HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION.
 - THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651, LATEST EDITION.
 - UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND MCU, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION, THE 2" CORP VALVES ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS. THE MAINS CAN NOW BE CONNECTED BY SLEEVE OR FLANGED CONNECTIONS.
 - ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACK FLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - WATER FOR TESTING AND DISINFECTION OF THE NEW WATER MAIN AND WATER FOR MAINTENANCE OR OTHER USES SHALL BE AT THE CONTRACTOR'S EXPENSE.
 - ALL PIPING AND APPURTENANCES TO BE 2" FOR 8" AND BELOW WATER MAINS; 4" FOR 12" WATER MAINS; 8" FOR 16" WATER MAINS; 12" FOR 24" WATER MAINS.

TEMPORARY JUMPER CONNECTION 203



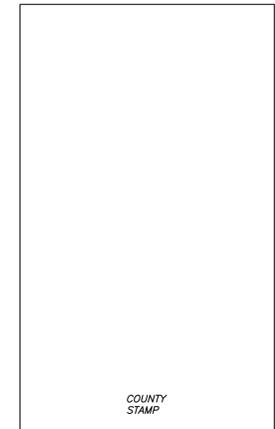
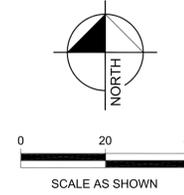
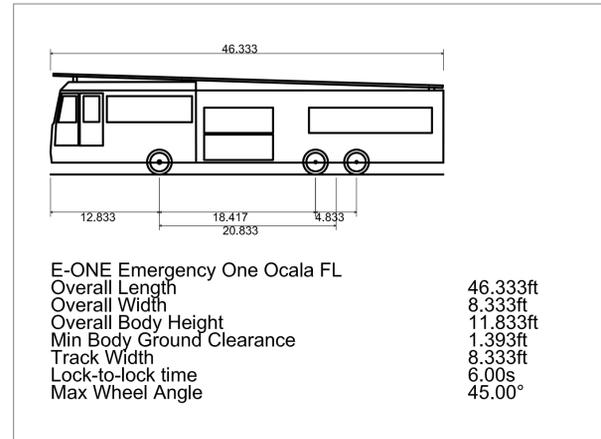
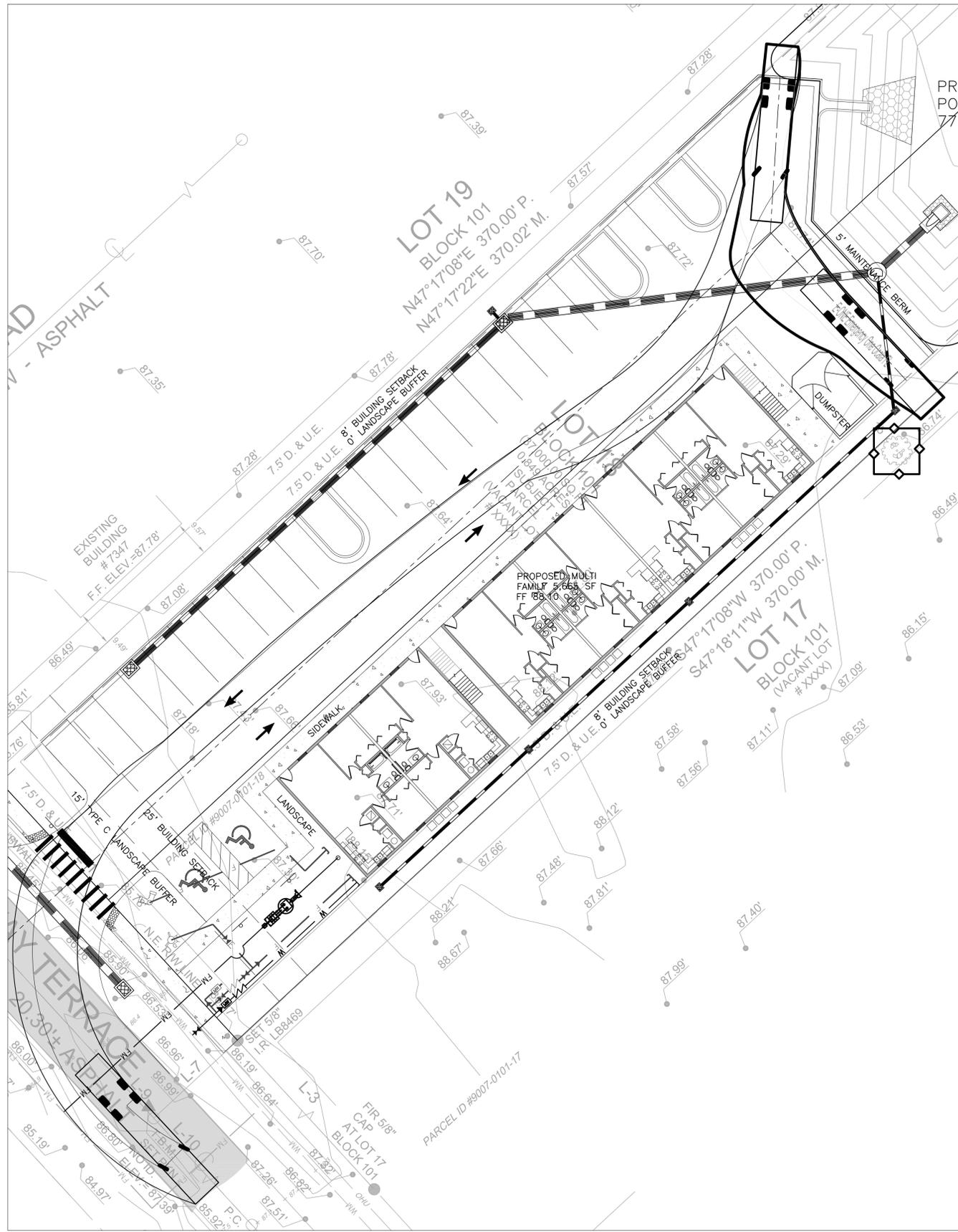
REDUCED PRESSURE BACKFLOW PREVENTER 209

- NOTES:
- RFPZ SHALL BE MAINTAINED AS PER MARION COUNTY CROSS CONNECTION CONTROL ORDINANCE.
 - PIPES LARGER THAN 4" SHALL BE DUCTILE IRON.

| | | | |
|---|---|--|-------------|
| <p>DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 gtlm@linneengineering.com CA LIC. NO. 31710</p> | | <p>REVISIONS</p> | <p>DATE</p> |
| <p>SCALE: NOTED</p> | <p>DESIGNED BY: GTC</p> | <p>NO.</p> | <p>BY</p> |
| <p>DRAWN BY: GTC</p> | <p>FLORIDA REGISTRATION NUMBER: 90573</p> | <p>REVISED</p> | <p>DATE</p> |
| <p>CHECKED BY: GTC</p> | <p>SEAL</p> | <p>NO.</p> | <p>BY</p> |
| <p>MIDWAY TERRACE LOT 18 OCALA, FL 34472</p> | | <p>UTILITY DETAILS</p> | |
| <p>MARION COUNTY FLORIDA</p> | | <p>DATE 2/2023</p> | |
| <p>SHEET NUMBER C10</p> | | <p>PROJECT NO. 36300-23-400</p> | |

Drawing name: Z:\Projects\36300-Adan Investments\23-400 Midway Terrace Lot 18\Cadd-Civil\C10 MidwayTerrace Multi Family - Fire Truck Route - Fire C10.dwg Oct 16, 2023 8:22am by: Workstation 8

FIRE TRUCK ROUTE BACKING OUT AND EXITING SITE

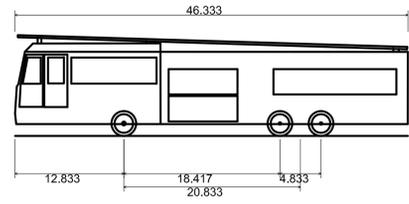


FIRE TRUCK ROUTE TURN TURN IN

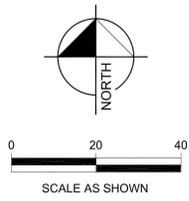


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|---|----------------------------|----------------------------|---------|------|
| DESIGNED BY | GTC | DESIGNED PER CITY COMMENTS | 07/2023 | GTC |
| DRAWN BY | GTC | | | |
| CHECKED BY | GTC | | | |
| SCALE AS NOTED | | | | |
| DESIGN ENGINEER | GREGORY T. CHATELAIN, P.E. | | | |
| FLORIDA REGISTRATION NUMBER | 90573 | | | |
| SEAL | | | | |
| FIRE TRUCK ROUTE | | | | |
| MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN | | | | |
| MARION COUNTY FLORIDA | | | | |
| DATE | 2/2023 | | | |
| PROJECT NO. | 36300-23-400 | | | |
| SHEET NUMBER | C10 | | | |
| BY | | REVISIONS | | DATE |
| | | No. | | |

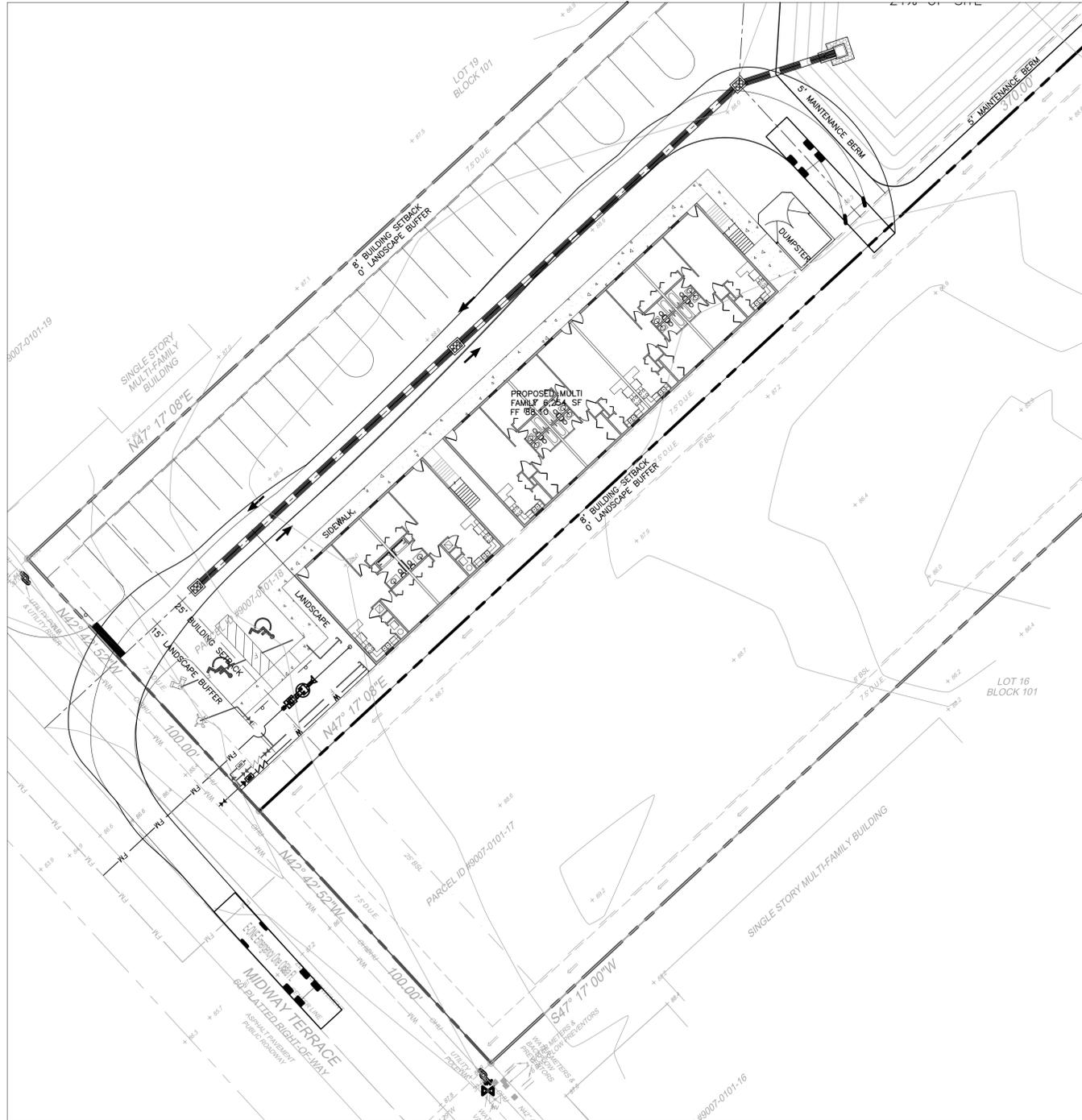
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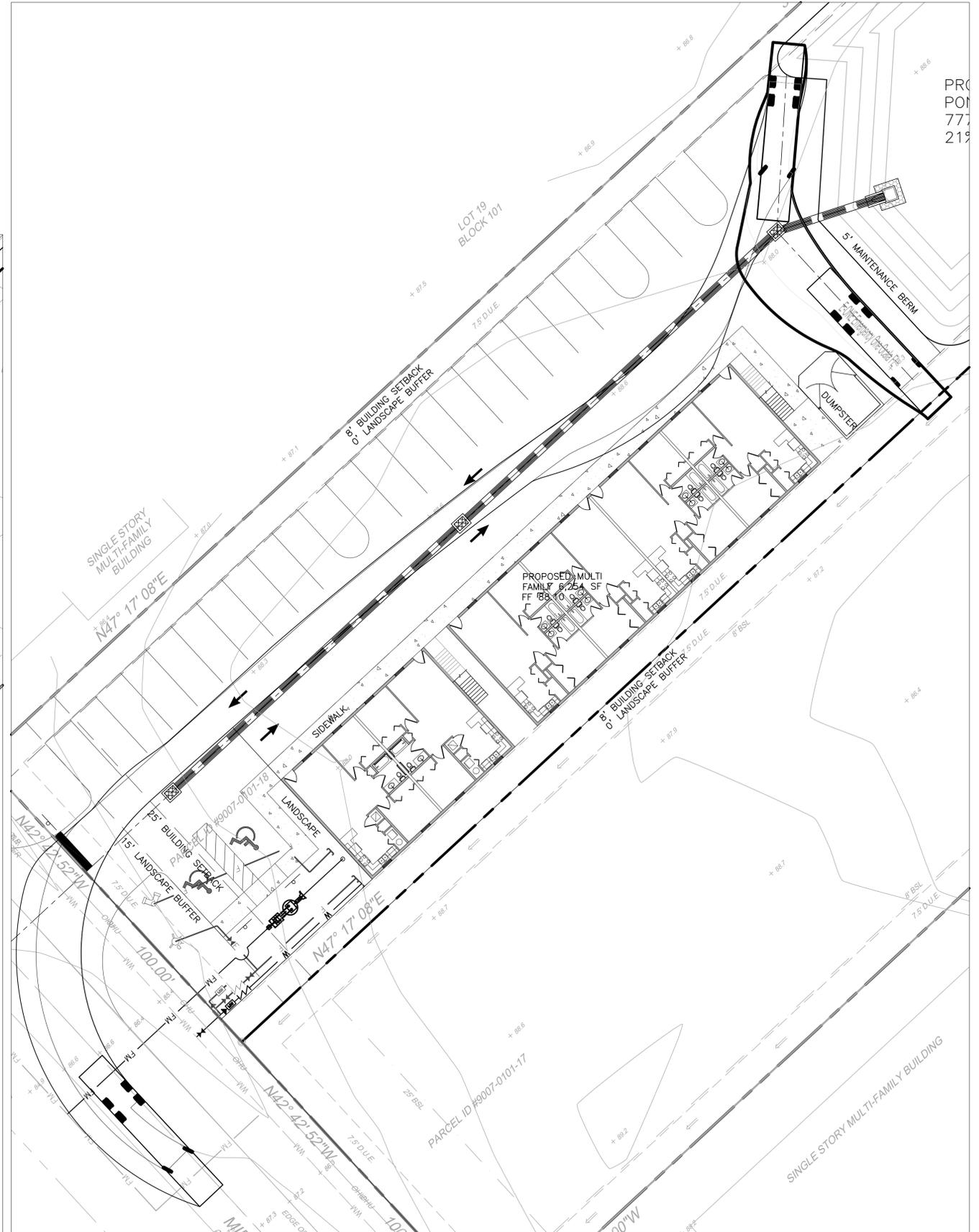
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 Overall Width 8.333ft
 Overall Body Height 11.833ft
 Min Body Ground Clearance 1.393ft
 Track Width 8.333ft
 Lock to lock time 6.00s
 Max Wheel Angle 45.00°



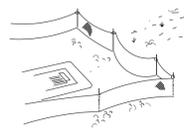
FIRE TRUCK ROUTE TURN TURN IN



FIRE TRUCK ROUTE BACKING OUT AND EXITING SITE



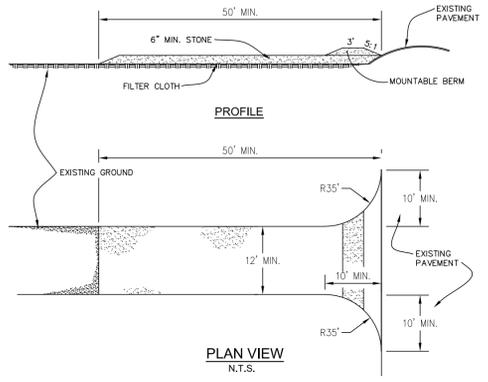
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| DATE | | BY | |
| 2/2023 | | | |
| PROJECT NO. | | REVISIONS | |
| 36300-23-400 | | | |
| SHEET NUMBER | | No. | |
| C11 | | | |
| MIDWAY TERRACE LOT 18 OCALA, FL 34472 | | SEAL | |
| MARION COUNTY FLORIDA | | DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. | |
| FIRE TRUCK ROUTE | | FLORIDA REGISTRATION NUMBER: 90573 | |
| | | SCALE(S) NOTED DESIGNED BY GTC | |
| | | DRAWN BY GTC | |
| | | CHECKED BY GTC | |
| | | LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 clm@linnengineering.com CA LIC. NO. 31710 | |



Type III Silt Fence Protection Around Ditch Bottom Inlets.
 PUT FILTER FABRIC UNDER GRATE

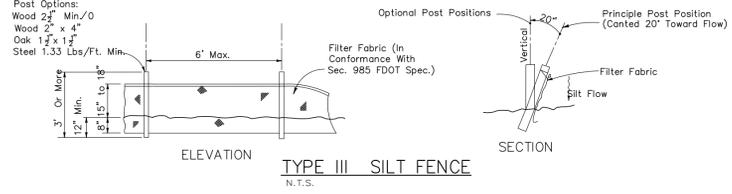
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



STABILIZED CONSTRUCTION ENTRANCE

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



TYPE III SILT FENCE
 N.T.S.

BEST MANAGEMENT PRACTICES:

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), THE MUNICIPALITY LAND DEVELOPMENT REGULATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SRJWMD). THE PLAN ADDRESSES THE FOLLOWING AREAS:

- GENERAL EROSION CONTROL.
- PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION.
- CONTROL OF WIND EROSION.

THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEX #100 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION

SECTION 1 GENERAL EROSION CONTROL:

- GENERAL EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL POND SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION ACTIVITIES.
- SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO POND BOTTOM.
- SOD SHALL BE PLACED FOR A MIN. 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.

SECTION 2 PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION:

- SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BEST MANAGEMENT PRACTICES IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.
- WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.
- 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:
 - IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
 - STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION AS SHOWN ON THIS SHEET. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
 - HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.
 - SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.
 - WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.
 - ALL PAINT(S) AND OTHER HAZARDOUS MATERIALS SHALL BE CONTAINED WITHIN A SINGLE ON-SITE AREA WITHIN SEALED CONTAINERS.
 - INSPECTION AND MAINTENANCE PROCEDURES FOR CONTROL MEASURES IDENTIFIED IN THE PLAN:
 - THE CONTRACTOR IS REQUIRED TO PROVIDE A QUALIFIED INSPECTOR TO PERFORM AND DOCUMENT REQUIRED INSPECTIONS.
 - ALL DISTURBED AREAS, STORAGE AREAS, AND CONSTRUCTION EXITS MUST BE INSPECTED. THIS INCLUDES OFF-SITE CONSTRUCTION AREAS.
 - INSPECTIONS MUST BE COMPLETED ONCE EVERY SEVEN DAYS AND/OR WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER (CONTRACTOR TO PROVIDE AN ON-SITE RAIN GAUGE AND PROVIDE DAILY RECORDING OF RAIN EVENTS).
 - ALL AREAS OF UNSATISFACTORY CONTROLS (INCLUDING EXISTING CONTROL MEASURES OR AREAS REQUIRING ADDITIONAL CONTROL MEASURES) SHALL BE REPAIRED/MAINTAINED/INSTALLED WITHIN 24 HOURS OF THE OBSERVANCE OR PRIOR TO AN ANTICIPATED RAIN EVENT IF FORECAST SOONER THAN 24 HOURS.
- ALL WATER RUNOFF RESULTING FROM SOURCES OTHER THAN RAINFALL EVENTS (I.E. BLOW-OFF FROM HYDRO-STATIC TESTING, PROCESS WATER FROM VEHICLE WASHDOWN, ETC.) SHALL BE DIRECTED TOWARDS THE ON-SITE SURFACE WATER MANAGEMENT SYSTEM, WHETHER IN TEMPORARY OR FINAL CONDITION, SO THAT IT HAS NO ADVERSE IMPACTS TO DOWNSTREAM WATER QUALITY CONDITIONS.

SECTION 3 CONTROL OF WIND EROSION:

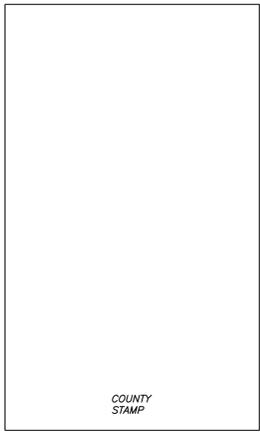
- WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:
 - BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
 - AS SOON AS PRACTICAL AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.
 - AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

CLEARING AND SITE PREPARATION NOTES:

- 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.
- 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 TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.
- 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 SOILS 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL MAINTAIN STORMWATER MANAGEMENT SYSTEM TO INSURE NO DAMAGE TO ADJACENT PROPERTIES OCCURS DURING STORM EVENTS.
- DISTURBED AREA(S) WITHIN THE ROW WILL COMPACTED TO 98% OF MAXIMUM DENSITY AND SODDED.
- DO NOT DISTURB EXISTING UNDERDRAIN OR STORM SYSTEMS.
- NO STOCKPILING OF MATERIAL IN ROADWAY OR ON SIDEWALK; ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROADS AND SIDEWALK TO BE SWEEP DAILY AS PART OF DAILY CLEAN-UP.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER. CONTRACTOR SHALL PROVIDE TO ENGINEER PHOTOGRAPH OF PRE-CONSTRUCTION CONDITIONS AND POST-CONSTRUCTION CONDITIONS AS REQUESTED BY ENGINEER.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.
- REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM PROPERTY AND DISPOSE OF OFF SITE IN A LEGAL MANNER.
- DURING PREPARATION OF THE SUB GRADE AND UNTIL THE PAVING IS IN PLACE, THE CONTRACTOR SHALL PROMPTLY TAKE REASONABLE MEASURES TO OBTAIN AND MAINTAIN A DRY SITE CONDITION. SUCH MEASURES SHALL INCLUDE PUMPING OF FREE SURFACE WATER, MINOR HAND AND/OR MACHINE SHAPING OF FACILITATE WATER REMOVAL, AND OTHER OPERATIONS TO SPEED DRYING.
- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS. AS DIRECTED BY THE OWNER, THE OWNERS 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.
- 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.
- THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.

EROSION AND SILTATION CONTROL:

- GENERAL – ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION. DURING CONSTRUCTION, DENUED AREAS SHALL BE COVERED BY MULCHES SUCH AS STRAW, HAY AND FILTER FABRIC. ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS OR HAY BALES. THESE SHALL BE MAINTAINED AND MODIFIED DURING THE CONSTRUCTION PROCESS TO MINIMIZE DOWNSTREAM SILTATION. WHEN CONSTRUCTION IS COMPLETED, DETENTION AREAS WILL BE RESHAPED, CLEANED OF SILT, MUD AND DEBRIS, AND RE-SODDED TO PROPERLY DETAIN THE INTENDED STORM QUANTITIES.
- PROTECTION AND STABILIZATION OF ON-SITE SOIL STOCKPILES – FILL MATERIAL STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES WILL BE REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY UNSTOCKPILED MATERIAL REMAIN MORE THAN THIRTY (30) CALENDAR DAYS AFTER SUBSTANTIAL PROJECT COMPLETION.
- PROTECTION OF EXISTING STORM SEWER SYSTEMS: DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.
- SEDIMENT BASINS AND TRAPS, SEDIMENT TRAPPING MEASURES: PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF, MUST BE INSTALLED, CONSTRUCTED OR, IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS, SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE WEEK OF INSTALLATION.
- ALL SWALES, DITCHES AND CHANNELS, CHANNELS LEADING FROM THE SITE SHALL BE SODDED WITH ARGENTINE BAHIA WITHIN THREE (3) DAYS OF EXCAVATION.
- THE CONSTRUCTION OF UNDERGROUND UTILITY CONSTRUCTION: UNDERGROUND UTILITY LINES AND OTHER STRUCTURES SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH SHALL BE OPEN AT ANY ONE TIME;
 - WHEREVER CONSISTENT WITH SAFETY AND SPACE CONSIDERATION, EXCAVATED MATERIAL SHALL BE CAST TO THE UPHILL SIDE OF TRENCHES. TRENCH MATERIAL SHALL NOT BE CAST INTO OR ONTO THE SLOPE OF ANY STREAM, CHANNEL, ROAD, DITCH OR WATERWAY.
- ALL EROSION AND SILTATION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND WILL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.



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|---|--|---|--|-----------------------------|--|
| MIDWAY TERRACE LOT 18 MULTIFAMILY OCALA, FL 34472 MAJOR SITE PLAN | | EROSION CONTROL & STORMWATER POLLUTION PREVENTION PLAN | | FLORIDA | |
| MARION COUNTY | | DATE 2/2023 | | PROJECT NO. 36300-23-400 | |
| SHEET NUMBER | | SWPPP-1 | | REVISIONS | |
| NO. | | DATE | | BY | |
| REVISED PER CITY COMMENTS | | 07/2023 | | CIC | |
| LINN ENGINEERING & DESIGN P.O. BOX 140024 ORLANDO, FL 32814 PHONE: 407-775-5194 clim@linnengineering.com CA LIC. NO. 31710 | | DESIGN ENGINEER: GREGORY T. CHATELAIN, P.E. FLORIDA REGISTRATION NUMBER: 90573 | | SEAL | |

GENERAL NOTES

- SEE CIVIL ENGINEERING DRAWINGS FOR GENERAL GRADING OF THE SITE, INCLUDING FINISH GRADES FOR PARKING LOTS, ROADWAYS, SIDEWALKS, AND PLANTING AREAS.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF PROPOSED IMPROVEMENTS PRIOR TO INITIATING ANY CONSTRUCTION.
- LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO INITIATING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON-SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO START OF CONSTRUCTION AND/OR FABRICATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.
- REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED LOCAL PRACTICES.
- THE CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. DURING THE COURSE OF THIS WORK, EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF WORK WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE.
- "FLORIDA LAW (F.S. 556) UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT MANDATES THAT EXCAVATOR/CONTRACTORS SHALL CONTACT SUNSHINE 811 (aka: SUNSHINE STATE ONE-CALL OF FLORIDA) BY CALLING 800-432-4770 OR 811 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO THE BEGINNING ANY EXCAVATION OR DEMOLITION TO ALLOW MEMBER OPERATORS AN OPPORTUNITY TO IDENTIFY AND MARK THEIR UNDERGROUND FACILITIES AND APPROPRIATELY RESPOND TO THE POSITIVE RESPONSE SYSTEM.
- ALL EXISTING SITE ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS, AND OTHER ELEMENTS TO REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE TO INCLUDE ALL NECESSARY ITEMS TO FULLY COMPLETE AN ASSEMBLY, SYSTEM, OR ITEM OF WORK AS SHOWN IN THE DRAWINGS, ANY ITEMS NOT IDENTIFIED OR SPECIFIED IN THESE DRAWINGS, BUT REQUIRED TO COMPLETE THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR PLACING ALL ITEMS OF WORK IN THE CORRECT LOCATIONS PER THE DRAWINGS. THIS MAY INCLUDE SURVEYING THE PROJECT SITE, DIGITAL DRAWING INFORMATION AND/OR NORTHING AND EASTING COORDINATES FOR USE BY THE CONTRACTOR CAN BE PROVIDED BY THE LANDSCAPE ARCHITECT UPON REQUEST. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR INACCURACIES IN THE BASE INFORMATION AND PROJECT COORDINATES PROVIDED BY THE CIVIL ENGINEER OR PROPERTY SURVEYOR THAT IS INCORPORATED BY REFERENCE IN THESE DRAWINGS.

LANDSCAPE NOTES

- THE CONTRACTOR SHALL REVIEW ARCHITECTURE/ENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES.
- THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES IN WRITING TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION WITHIN TWO WEEKS OF CONTRACT AWARD AND PRIOR TO THE COMMENCEMENT OF WORK. ALL REQUESTS FOR SUBSTITUTION DUE TO LACK OF AVAILABILITY MUST BE MADE TO THE OWNER'S REPRESENTATIVE IN WRITING WITHIN THIS PERIOD. NO SUBSTITUTION SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR EXHAUSTING ALL MEANS POSSIBLE TO OBTAIN THE MATERIALS AS SPECIFIED PRIOR TO REQUESTING SUBSTITUTION. IN ORDER TO BE CONSIDERED BY THE OWNER'S REPRESENTATIVE AS VIABLE ALTERNATES PLANTS MUST SHARE THE SAME GENERAL APPEARANCE/FORM, INSTALLATION SIZE, COLOR, QUALITY AND GROWTH HABIT. MATERIALS MUST BE OFFERED AT NO ADDITIONAL COSTS TO THE OWNER.
- ALL INSTALLATION OF PLANT MATERIAL SHALL COMPLY WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THIS WORK. CONTRACTOR SHALL ENSURE A MAINTAINED CLEARANCE OF ALL UTILITIES & FIRE HYDRANTS IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE 165.7.1. CONTRACTOR SHALL ENSURE SIGHT TRIANGLE VISIBILITY IN ALL APPLICABLE ROADWAYS PER FDOT STANDARDS.
- PRIOR TO PLANTING INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF ALL THE SPECIFIED PLANT MATERIALS. SUBMIT DATED PHOTOGRAPHS OF TREE MATERIAL AND SPECIMEN PLANT MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
- ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. CONTAINER SIZE SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.
- IF PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS AS SPECIFIED HEREIN, THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AT NO ADDED COST TO THE OWNER AND CONTINUE SPECIFIED MAINTENANCE UNTIL RESPECTED AND FOUND TO BE ACCEPTABLE.
- THE CONTRACTOR SHALL PROVIDE AN APPROVED PLANTING SOIL MIXTURE FOR ALL PLANT MATERIAL. SEE SPECIFICATIONS FOR REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND SHRUBS, AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF TREES OR SHRUBS SHALL BE DONE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS. IF INADEQUATE VERTICAL DRAINAGE IS ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS FOR PROVIDING ADEQUATE DRAINAGE TO THE OWNER'S REPRESENTATIVE. IN WET OR POORLY DRAINING SOILS, THE CONTRACTOR SHALL INSTALL ALL PLANTS TO MAXIMIZE DRAINAGE AND MINIMIZE POOLING OF WATER AROUND PLANTINGS. THIS MAY INCLUDE LOOSENING OF EXISTING SOILS AND PROVIDING SOIL AMENDMENTS TO ENSURE ADEQUATE DRAINAGE.
- PEG SOD ON SLOPES GREATER THAN 1:3 (33% SLOPE).
- THE CONTRACTOR SHALL ENGAGE A QUALIFIED ARBORIST WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE FOLLOWING WORK:
 - REMOVE BRANCHES FROM TREES THAT ARE TO REMAIN, IF REQUIRED, AS DIRECTED BY OWNER'S REPRESENTATIVE.
 - PERFORM INITIAL PRUNING OF BRANCHES TO ACCOMMODATE NEW CONSTRUCTION.
 - PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM FOR RELOCATED TREES.
- CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE. ALL EXISTING PLANT BEDS TO REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHALL BE LEFT UNDISTURBED. EXISTING TREES TO REMAIN, AS NOTED ON THE DRAWINGS, SHALL BE LEFT UNDISTURBED AND PROTECTED BY WOODEN BARRICADES ERECTED AT THE PERIMETER OF THE TREE DRIP-LINE (S). NO VEHICLE SHALL TRAVERSE THIS AREA NOR SHALL ANY STORAGE OF MATERIALS OR EQUIPMENT BE PERMITTED WITHIN THE AREA OF THE TREE DRIP-LINE(S). ANY EXISTING PLANT BEDS OR TREES DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED BY THE RESPONSIBLE PARTY AT THEIR OWN EXPENSE.
- CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING VEGETATION AS REQUIRED AND PREPARING PLANTING AREAS PRIOR TO INSTALLATION OF PLANT MATERIALS.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ERADICATING WEEDS AND UNWANTED PERENNIAL VEGETATION WITHIN THE LIMITS OF ALL PLANTING AREAS PRIOR TO BEGINNING LANDSCAPE INSTALLATION. PERENNIAL WEEDS AND GRASSES TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO, NUT GRASS, PUNCTURE VINE, MORNING GLORY, DOCK FENNEL, TORPEDO GRASS, BERMLUDA GRASS, BAHIA GRASS, KIKUYU GRASS, CRAB GRASS, CARPET GRASS, SEDGE AND OTHER NOXIOUS AND/OR INVASIVE WEEDS. THE SITE IS TO BE MAINTAINED WEED FREE THROUGHOUT PLANTING OPERATIONS.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PRE-TILLAGE TO SCARIFY SOILS IN ALL PLANTING AREAS TO A MINIMUM DEPTH OF 4". DENSELY COMPACTED AREAS BETWEEN 86% AND 90% ARE TO BE CROSS RIPPED TO A MINIMUM 8" DEPTH. IN THE PROCESS, TILLS ARE UNACCEPTABLE MATERIALS INCLUDING, BUT NOT LIMITED TO, FOREIGN DEBRIS, CONSTRUCTION WASTE, ROOTS, CONCRETE, ASPHALT AND ROCKS GREATER THAN 1/2" DIAMETER ON AVERAGE. IN AREAS TO RECEIVE SOD TILL IN FERTILIZER TO A DEPTH OF 2" AT A RATE OF 12 POUNDS PER CUBIC FT.
- ALL PLANTING BEDS SHALL BE STAKED IN ACCORDANCE WITH THE PLANS AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL PROVIDE STAKES OR IRRIGATION FLAGS TO LOCATE THE EDGES OF ALL SHRUB AND GROUNDCOVER PLANT BEDS AND INDIVIDUAL TREES AND PALMS. ALL SHRUB AND GROUNDCOVER MATERIALS MUST BE LAID OUT IN THEIR CONTAINERS WITH THE APPROPRIATE SPACING FOR OWNER'S REPRESENTATIVE REVIEW AND APPROVAL. THE OWNER RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS TO PLANT LAYOUT AS PART OF THIS REVIEW. FAILURE BY THE LANDSCAPE CONTRACTOR TO OBTAIN LAYOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION MAY RESULT IN THE REMOVAL AND REINSTALLATION OF MATERIALS BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER. IF EXISTING CONDITIONS DO NOT ALLOW THE DESIGN TO BE LAID OUT AS SHOWN, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
- UNLESS EXPLICITLY SHOWN ON DRAWINGS, NO TREES SHALL BE PLANTED WITHIN DESIGNATED UTILITY CORRIDORS, PUBLIC RIGHTS OF WAY NARROW LOCATED WITHIN FOUR FEET (4') OF ANY SVALE CENTERLINE, BUILDING, OR STRUCTURE IDENTIFIED ON THE DRAWINGS OR EXISTING IN THE FIELD. NO CANOPY TREES SHALL BE PLANTED WITHIN 15 FEET OF EXISTING OVERHEAD POWER LINES, WITHIN 4 FEET OF ANY PAVED SURFACE, OR UNDER CANOPY TREES THAT LIMIT ACCESS TO LIGHT AND ROOM TO GROW. FIELD ADJUST AS NECESSARY AND REVIEW ADJUSTMENTS WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. TREES SHALL BE MAINTAINED AT A MINIMUM OF 13'-0" VERTICAL CLEARANCE OVER ROADWAYS OR OTHER FIRE DEPARTMENT ACCESS ROADS.
- ALL PROPOSED TREES SHALL BE INSTALLED EITHER ENTIRELY IN OR ENTIRELY OUT OF PLANTING BEDS. PLANTING BED OUTLINES SHALL NOT BE OBSTRUCTED AND SHALL BE SMOOTH AND FLOWING. IF TREES ARE LOCATED OUTSIDE PLANTING BEDS IN GRASS AREAS, MAINTAIN A MINIMUM THREE FEET 3' WIDE OFFSET TO ALLOW FOR MOWERS TO MANUEVER.

- THE LANDSCAPE CONTRACTOR SHALL VERIFY THE EXTENT OF SOD & TURF WORK IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SOD & TURF IN THE AREAS SHOWN ON THE PLAN IN SUFFICIENT QUANTITY TO PROVIDE FULL COVERAGE. ADDITIONAL GRASS REQUIRED WILL BE ADJUSTED BASED ON A SQUARE FOOTAGE UNIT PRICE. AREAS TO BE SODDED SHALL BE AMENDED PER SOILS REPORT TO PROVIDE REQUIRED NUTRIENTS AND SOIL PH OF BETWEEN 6.0 AND 7.0. ALL SOD SHALL BE ONLY NURSERY GROWN, NON PASTURE RAISED, MACHINE CUT SOD RECTANGLES OF THE TYPE INDICATED ON THE DRAWINGS. SOD SHALL BE WELL-MATTED WITH ROOTS, FREE OF EXCESSIVE WEEDS & DEBRIS, AND SHALL BE GREEN, FRESH AND UNINJURED AT THE TIME OF PLANTING.
- CONTRACTOR SHALL FIELD-ADJUST LOCATION OF PLANT MATERIAL FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO INITIATING INSTALLATION.
- ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- ALL PLANTING BEDS SHALL BE TOP-DRESSED WITH A 3" LAYER OF MULCH AS SPECIFIED. ALL TREES SHALL HAVE A 3" DEEP, 24" RADIUS (FROM THE TRUNK) MULCH RING PLACED AROUND THE BASE OF THE TRUNK. ON WELL DRAINED SOIL, THE MULCH RING SHALL BE MOUNDED AT ITS EDGES TO RETAIN WATER WITHIN THE TREE RING. ON POORLY DRAINERD SOIL, THE MULCH RING SHALL BE MOUNDED AT THE TRUNK TO SHED WATER AWAY FROM THE TREE.
- SHRUB AND GROUND COVER BED QUANTITIES ARE INDICATED ON THE PLANT LIST. PLANT ACCENT SHRUBS AND TREES AS SHOWN ON THE LANDSCAPE PLANTING PLANS WHEN INDIVIDUAL PLANTS ARE DELINEATED.
- PALM HEIGHTS, AS INDICATED ON THE PLANS, REFER TO CLEAR TRUNK (C.T.), GRAY WOOD (G.W.), OR OVERALL HEIGHT (O.A.) AS SPECIFIED ON THE PLANT LIST.
- CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION.
- CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
- CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
- MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION. MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING, MULCHING, REPLACEMENTS OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL.
- UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR SUBSTANTIAL COMPLETION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.
- CONTRACTOR SHALL SUBMIT WRITTEN GUARANTEE OF SURVIVABILITY OF ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
- CONTRACTOR MUST APPROVE ALL GRADED AREAS PRIOR TO THE COMMENCEMENT OF PLANTING.
- THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK. SEE SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER'S REPRESENTATIVE WITH RECORD COPIES OF ALL RECEIPTS, INVOICES, AND/OR SHIPPING MANIFESTS FOR ALL MATERIALS, INCLUDING PLANTS AND SOD, DELIVERED TO THE PROJECT SITE BY THE CONTRACTOR OR A SUPPLIER TO THE CONTRACTOR, DELIVERY OF ALL FERTILIZER AND SOIL AMENDMENT MATERIALS MUST BE IN ORIGINAL, UNOPENED CONTAINER'S BEARING MANUFACTURER'S GUARANTEED CHEMICAL ANALYSIS, NAME, TRADE MARK AND CONFORMANCE WITH STATE LAW.

HARDSCAPE NOTES

- SEE CIVIL ENGINEERING DRAWINGS FOR GENERAL GRADING OF THE SITE, INCLUDING SIDEWALK AND FINISH GRADES FOR PARKING LOTS, ROADWAYS, SIDEWALKS, AND PLANTING AREAS.
- ALL PAVEMENT SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ALIGNMENT MAY BE ADJUSTED UPON APPROVAL TO ACCOMMODATE EXISTING SITE ELEMENTS.
- SLOPES OF WALKS TO BE NO GREATER THAN FIVE PERCENT, UNLESS EXPRESSLY NOTED OTHERWISE. CROSS-SLOPE OF WALKS NOT TO EXCEED TWO PERCENT. SEE CIVIL DRAWINGS FOR ADDITIONAL LAYOUT AND INSTALLATION DETAILS. SEE HARDSCAPE DRAWINGS FOR FINISH PATTERNS.
- ALL COLORS AND MATERIALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. FOR THIS PURPOSE, THE CONTRACTOR SHALL CONSTRUCT OR SUBMIT AS DIRECTED BY THE OWNER'S REPRESENTATIVE PANELS DEPICTING PROPOSED FINISHES AND COLORS FOR REVIEW AND APPROVAL.
- ALL NAILS, LAG SCREWS, BOLTS AND MISCELLANEOUS FASTENERS SHALL BE HOT DIPPED GALVANIZED OR A CORROSION RESISTANT ALLOY.
- FOUNDATIONS
 - FOOTINGS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 PSF. IN-PLACE SOILS TO BE UNIFORMLY COMPACTED AND TESTED TO ENSURE MINIMUM SOIL BEARING PRESSURE CAPACITY OF 2,000 PSF.
- PREPARATION FOR AND CONSTRUCTION OF WALL/COLUMN FOOTING(S) TO BE IN COMPLIANCE WITH THE APPLICABLE CHAPTERS AND SECTIONS OF ACI 332R.
- ANY ADDITIONAL FILL MATERIAL REQUIRED SHALL CONSIST OF SOILS THAT CONTAIN NOT MORE THAN 12% OF FINES (SILT OR CLAY PARTICLES) PASSING A NO. 200 SIEVE AND SHALL BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 12.0 INCHES LOOSE. EACH LAYER SHALL BE SYSTEMATICALLY AND UNIFORMLY COMPACTED IN THE MANNER AND TO THE DEGREE SPECIFIED FOR THE IN-PLACE SOILS.
- CONCRETE
 - STRUCTURAL CONCRETE, INCLUDING FOOTINGS, SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 3000 PSI UNLESS OTHERWISE NOTED. CONCRETE FOR SLABS ON-GRADE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 2500 PSI.
 - CONCRETE, WHEN PLACED, SHALL HAVE A MAXIMUM SLUMP OF 5 INCHES AND A MINIMUM OF 3 INCHES.
- ALL REINFORCING SHALL CONFORM TO ASTM 615 FOR GRADE 60 STEEL; WELDED WIRE MESH TO ASTM A-185.
- CHECK ALL DRAWINGS AND APPLICABLE MANUFACTURER'S SHOP DRAWINGS FOR LOCATION OF ALL EMBEDDED ITEMS SUCH AS PIPE SLEEVES, ANCHOR BOLTS, ETC., PRIOR TO PLACING CONCRETE.
- #5 REINFORCEMENT FOR CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AND SPLICED WITH A FULL 30-INCH LAP.
- PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. KEEP CONTINUOUSLY MOIST FOR NOT LESS THAN 7 DAYS IN ACCORDANCE WITH ACI 301 PROCEDURES. PERFORM CURING OF THE CONCRETE BY CURING AND SEALING COMPOUND, BY MOIST CURING, BY MOISTURE RETAINING COVER CURING OR BY COMBINATION THEREOF.
- REQUIRED MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR THE REINFORCEMENT:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH; 3 INCHES.
 - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER; #5 BARS AND SMALLER, 1 1/2 INCHES; #6 BARS AND LARGER, 2 INCHES.
- MASONRY
 - CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90 FOR LOAD BEARING MASONRY WITH A MINIMUM PART OF 1500 PSI. BRICK MASONRY SHALL CONFORM TO ASTM C62 FOR STRUCTURAL AND NON-STRUCTURAL MASONRY. REFER TO DRAWINGS FOR SPECIFIC TYPE OF BRICK MASONRY LAYOUT PATTERNS.
 - MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM WITH ALL THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-95/ASCE 6-96/TMS 602-02), AS PUBLISHED BY THE MASONRY STANDARDS JOINT COMMITTEE.
 - MASONRY CONSTRUCTION SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A "CERTIFIED STRUCTURAL MASONRY CONTRACTOR" OR "CERTIFIED STRUCTURAL MASON" AS RECOGNIZED BY THE FLORIDA CONCRETE AND MASONRY BOARD. EACH UNIT SHALL BE ADJUSTED TO FINAL POSITION IN THE WALL WHILE THE MORTAR IS STILL SOFT AND PLASTIC. ANY UNIT DISTURBED AFTER THE MORTAR HAS STIFFENED SHALL BE REMOVED AND RELAID WITH FRESH MORTAR. VERTICAL CELLS SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING. ALL ANCHORS, ACCESSORIES, FLASHING AND OTHER ITEMS TO BE BUILT-IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES. ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHERS SHALL BE DONE BY MASONRY CRAFTSMEN WITH MASONRY SAWS. LOCATE CONTROL JOINTS AT 20 FEET ON CENTER MAXIMUM, AT ALL COLUMNS, AND AT CHANGES IN DIRECTION. CAULK THE EXPOSED SIDE OF ALL JOINTS WITH BACKER ROD AND SEALANT. COLOR OF SEALANT TO MATCH WALL COLOR.
 - HOLLOW UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS TO THE THICKNESS OF THE FACE SHELL AS A MINIMUM. THE WEBS SHALL ALSO BE BEDDED IN ALL COURSES, STARTING AT THE FOUNDATION, ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT OR CONCRETE. MORTAR JOINTS SHALL BE TOOLED WHEN THE MORTAR IS "THUMBPRINT" HARD, BOTH ON THE INSIDE AND OUTSIDE SURFACES OF THE BUILDING WALL, WITH A TOOL PRODUCING A CONCAVE SURFACE. BED JOINTS SHALL BE 3/8" - 1/8" IN THICKNESS, HEAD JOINTS SHALL BE 3/8" - 1/4" - 3/8").
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- ALL REINFORCING STEEL TO BE GRADE 60 PER ASTM A-615. REINFORCING BARS SHALL BE PLACED IN THE MIDDLE OF THE CELLS AND TIED OR OTHERWISE SECURELY SUPPORTED AT THE TOP AND BOTTOM TO ENSURE THAT THE BAR DOES NOT MOVE DURING GROUTING. MINIMUM LAP AT ALL SPLICES OR DOWELS SHALL BE 30 INCHES UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- GROUTING SHALL BE ACCOMPLISHED IN 4 FOOT LIFTS FOR CONCRETE MASONRY AND 2 FOOT LIFTS FOR BRICK MASONRY. EACH LIFT SHALL BE MECHANICALLY CONSOLIDATED INTO THE PREVIOUS LIFT, WHEN PLACED, SO AS TO PREVENT COLD JOINTS. RECONSOLIDATE AS REQUIRED. FOR CONCRETE MASONRY, A 12 SQUARE INCH CLEANOUT OPENING SHALL BE PLACED AT THE BOTTOM OF EACH CELL, TO BE FILLED AND IT SHALL BE THOROUGHLY CLEANED OUT PRIOR TO FILLING OF THE CELL. FOR BRICK MASONRY, PUDDLE GROUT DURING AND AFTER PLACEMENT TO ENSURE COMPLETE FILLING OF GROUT SPACE. GROUT PLACEMENT STOPPED FOR MORE THAN ONE HOUR SHALL BE STOPPED BELOW THE TOP OF THE MASONRY UNIT 1'-1/2" TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
- THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST NOT BE LESS THAN 2" X 3". MORTAR FINIS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.
- ERECT ALL STEEL TO CONFORM TO OTHERWISE, PROVIDE #9 GA. "DUR-O-WALL" TRUSS TYPE REINFORCING IN EVERY OTHER COURSE OF CONTINUOUS WALLS FOR CONCRETE MASONRY, AND EVERY FOURTH COURSE FOR BRICK MASONRY. DO NOT LAY JOINT REINFORCEMENT ACROSS EXPANSION JOINTS.
- TEMPORARY BRACING AND SHORING OF ALL CONCRETE MASONRY CONSTRUCTION, TO PROVIDE STABILITY DURING CONSTRUCTION, UNTIL CONSTRUCTION ACHIEVES ITS PROPER STRENGTH, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

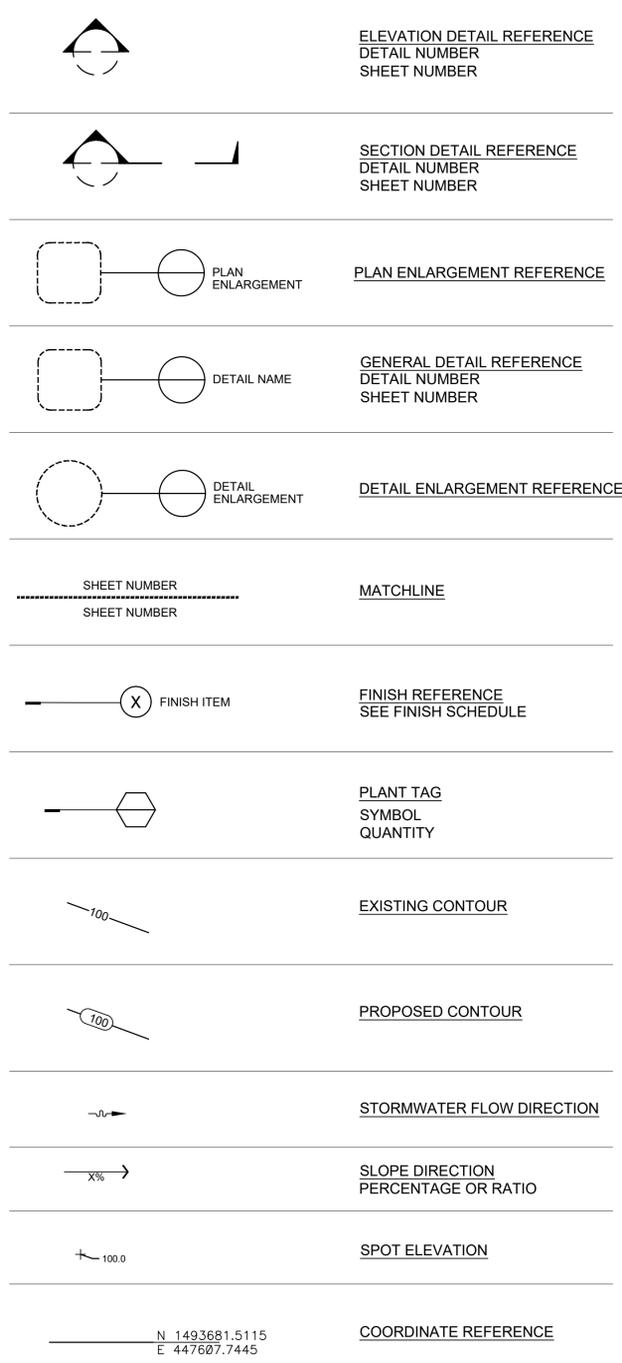
- STRUCTURAL STEEL
 - ALL STRUCTURAL STEEL SHAPES AND PLATE SHALL CONFORM TO ASTM A-36 AND THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. ALL TUBE STEEL SHALL CONFORM TO ASTM A-500, GRADE B (FY = 46 KSI).
 - ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX LOW HYDROGEN ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
 - ALL STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCHUP COAT OF APPROVED PAINT.
 - ALL BOLTED CONNECTIONS SHALL CONSIST OF ASTM A325 HIGH STRENGTH BOLTS AND HARDENED WASHERS AS SHOWN ON THE STRUCTURAL DRAWINGS. ALL BOLTED CONNECTIONS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
 - ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A36 OR A307 (THREADED ROD).
 - ERECT ALL STEEL TO CONFORM TO "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND "QUALITY CRITERIA AND INSPECTION STANDARDS". FRAME TO BE PLUMB, SQUARE AND TRUE TO LINE AND LEVEL, CHECKED BY SURVEYING INSTRUMENTS.
 - LOCATE FINISH HOLES PRECISELY TO INSURE PASSAGE THROUGH ASSEMBLED MATERIALS WITHOUT DRIFTING. ENLARGE HOLES BY REAMING IF NECESSARY. POOR MATCHING OF HOLES IS SUFFICIENT CAUSE FOR REJECTION.
 - GROUT FOR COLUMN BASE PLATES SHALL BE NON-SHRINK GROUT BY "EMBECO" OR APPROVED EQUAL, 5000 PSI MINIMUM.
- LUMBER
 - ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, GRADE NO.2 OR BETTER OR AS SPECIFIED ON THE DRAWINGS, KD19 (FB FOR LUMBER SIZES NOTED TO BE IN CONFORMANCE WITH VALUES LISTED IN THE NATIONAL FOREST PRODUCTS ASSOCIATION NATIONAL DESIGN STANDARD SUPPLEMENT), AND SHALL CONFORM TO THE NATIONAL GRADING RULE FOR DIMENSION LUMBER, THE SOUTHERN PINE INSPECTION BUREAU AND THE SOUTHERN FOREST PRODUCTS ASSOCIATION.
 - DO NOT LOCATE ANY HOLES CLOSER THAN FIVE (5) BOLT DIAMETERS FROM THE END OF ANY WOOD FRAMING MEMBER.
 - EXPOSED WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH TYPE WATERBORNE PRESERVATIVE IN ACCORDANCE WITH THE AMERICAN WOOD-PRESERVERS STANDARD U1-03 FOR THE FOLLOWING APPLICATIONS:

| APPLICATION | AWPA USE CATEGORY | TREATMENT (LBS./CU.F.T) |
|--|-------------------|-------------------------|
| A. ABOVE-GROUND USE | UC3B | ACC 0.25 |
| B. CONCRETE- OR GROUND-CONTACT, OR IN-GROUND USE | UC4A | ACC 0.40 |
| C. FRESHWATER USE | UC4A | ACC 0.40 |
| D. IN-GROUND OR FRESHWATER PILES | UC4C | CCA 0.80 (NOTE 1) |
| E. SALTWATER USE, MARINE PILES | UC5C | CCA 2.50 (NOTE 2) |

 NOTE 1: CREOSOTE (12 LBS./CU.F.T.) MAY BE USED IF APPROVED BY OWNER'S REPRESENTATIVE
 NOTE 2: CREOSOTE (25 LBS./CU.F.T.) MAY BE USED IF APPROVED BY OWNER'S REPRESENTATIVE
 - FASTENERS:
 - ABOVE-GROUND METAL CONNECTORS IN CONTACT WITH A.C.C.:
 - G185 HOT DIPPED GALVANIZED MEETING ASTM A653
 - ASTM A123
 - STAINLESS STEEL TYPE 304 OR 316
 - ABOVE-GROUND SCREWS, NUTS, BOLTS & WASHERS IN CONTACT WITH A.C.C.:
 - CLASS 55 MECHANICAL DEPOSITED ZINC MEETING ASTM B995
 - POST HOT DIPPED GALVANIZED MEETING ASTM A153
 - STAINLESS STEEL TYPE 304 OR 316
 - ABOVE-GROUND COMMON NAILS & GUN NAILS IN CONTACT WITH A.C.C.:
 - G185 HOT DIPPED GALVANIZED MEETING ASTM A153
 - STAINLESS STEEL TYPE 304 OR 316
 - ALL FASTENERS FOR IN-GROUND, UNDERWATER OR MARINE APPLICATIONS
 - STAINLESS STEEL TYPE 304 OR 316

- ALUMINUM
 - ALUMINUM TUBING, PLATES, BARS, AND ANGLES SHALL BE 6061-T6 UNLESS NOTED OTHERWISE.
 - ALL WELDING TO BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S STANDARD AWS D1.2, STRUCTURAL WELDING CODE - ALUMINUM.
 - ISOLATE ALL ALUMINUM FROM STEEL AND CONCRETE BY THE USE OF NEOPRENE WASHERS, BUSHINGS, AND SHEET AS REQUIRED IN ORDER TO PREVENT GALVANIC ACTION OR CORROSION.
 - ALL FASTENERS, BOLTS, NUTS, ETC. IN CONTACT WITH ALUMINUM SHALL BE STAINLESS STEEL.
 - POOL/SPA/FOUNTAIN
 - THE POOL/SPA/FOUNTAIN CONTRACTOR WILL STAKE OUT THE POOL/SPA/FOUNTAIN AND SET THE FINISHED GRADE. THE OWNER'S REPRESENTATIVE WILL BE NOTIFIED FOR APPROVAL OF THIS WORK PRIOR TO INSTALLATION.
 - POOL/SPA/FOUNTAIN CONTRACTOR IS RESPONSIBLE FOR ALL POOL/SPA/FOUNTAIN EQUIPMENT, PIPING, POOL/SPA SHELL, FOUNTAIN WALLS, TILE, COPING, ELECTRICAL TO JUNCTION BOXES, PERMITS, AND CODE COMPLIANCE. SUBMIT SHOP DRAWINGS AND FINISH SAMPLES FOR REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - REQUIRED UTILITIES AT THE FILTER/PUMP LOCATION TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
 - FINISH PATTERN ON THE POOL DECK TO BE LAID OUT EXACTLY AS SHOWN. EXPANSION JOINTS, DECK DRAINS, ETC. TO COINCIDE WITH THE GRID. EXPANSION JOINT FILLER AND ANY DECK DRAIN MATERIALS ARE TO MATCH THE COLOR OF THE DECK.
 - PRECAST/EIFS
 - PRECAST/EIFS MANUFACTURER IS RESPONSIBLE FOR DESIGN OF INDIVIDUAL COMPONENTS, INCLUDING VERIFICATION OF FIELD CONDITIONS AND DESIGN OF CONNECTIONS.
 - DESIGN, FABRICATION, AND INSTALLATION OF PRECAST/EIFS COMPONENTS SHALL COMPLY WITH APPLICABLE ACI, PCI, & ASTM STANDARDS.
 - MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND FINISH SAMPLES FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION AND INSTALLATION.
 - ALL CAST STONE PRODUCTS SHALL CONFORM WITH ALL REQUIREMENTS OF ASTM C1364.
 - FURNISHINGS
 - THE CONTRACTOR TO PROVIDE THE FOLLOWING SUBMITTALS,
 - PROCEDURES AND MAINTENANCE
 - COMPLETE SHOP DRAWINGS FOR ALL SITE FURNISHINGS INDICATING ALL DETAILS OF FABRICATION AND INSTALLATION INCLUDING SIZES, SHAPES, FINISHES, COLORS, THICKNESS, MATERIAL QUALITY AND ALL OTHER RELATED WORK APPLICABLE TO THE SITE FURNISHINGS.
 - SUBMIT COLOR SAMPLES FOR APPROVAL BY THE OWNER.
 - DELIVER ALL MATERIALS WITH MANUFACTURER'S TAGS AND LABELS INTACT IN CLEAN, DRY AND PROTECTED LOCATIONS.
 - STORE AND HANDLE ALL SITE FURNISHINGS SO AS TO AVOID DAMAGE. ALL SITE FURNISHINGS SHALL BE GUARANTEED BY THE CONTRACTOR FREE OF DEFECTS, CRACKS, CHIPS, STAINS AND SHALL BE COMPLETELY CLEAN AND FREE OF DAMAGES UPON FINAL PLACEMENT AND APPROVAL.
 - ALL SITE FURNISHINGS SHALL BE PROVIDED BY THE CONTRACTOR INCLUDING ORDERING, SHIPPING, DELIVERY, UNPACKING, AND INSTALLING ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY INSTALLATION PROCEDURE WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLING.
 - ALL SITE FURNISHINGS LOCATIONS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEING PLACED ON SITE. FAILURE TO SECURE OWNER'S APPROVAL MAY REQUIRE THE CONTRACTOR TO MOVE AND/OR REINSTALL THE FURNISHINGS AT THE CONTRACTORS EXPENSE.

STANDARD DRAWING SYMBOLS



CONTRACTOR NOTES

NOT ALL ITEMS SHOWN ON THIS SHEET APPEAR IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS RELATED TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, BUILDING, LANDSCAPE, IRRIGATION & RIGHT OF WAY UTILIZATION PERMITS.

CODE COMPLIANCE NOTES

- IT IS THE INTENT OF THIS DESIGN TO COMPLY WITH ALL APPLICABLE LOCAL AND STATE BUILDING CODES. ALL EDITIONS OF THE FLORIDA BUILDING CODE 2020 (7TH ED) NATIONAL ELECTRIC CODE 2020

WINDLOAD NOTES

- WIND DESIGN LOAD INFORMATION (TO BE CONFIRMED BY ENGINEER OF RECORD): (PER FBC 2020 7th EDITION CHAPTER 16, REF. ASCE 7-16)
 - BASIC WIND SPEED (V₁₀) = 140 MPH (3 SECOND GUST)
 - (V₅₀) = 108 MPH (3 SECOND GUST)
 - STRUCTURE CATEGORY = II (ASCE 7-16)
 - WIND EXPOSURE(ALL SIDES) = C (ASCE 7-16)
 - Q_f = 1.4



LANDSCAPE ARCHITECTURE
COMMUNITY PLANNING
URBAN DESIGN

1516 E. HILLCREST STREET STE. 105
ORLANDO, FL 32803 PH: 407-256-2625

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PROJECT
MIDWAY TERRACE APTS
LOT 18
MARION COUNTY, FL
Prepared For:
LINN ENGINEERING

SEAL
CONSULTANTS

ISSUED FOR:
 10/11/2023 REVIEW

PROJECT NO. 2023-17
DESIGNED BY TDC/TFW
DRAWN BY TFW
CHECKED BY TDC/TFW
DATE 8/2/2023
DRAWING SCALE

DRAWING TITLE
INDEX SHEET
DRAWING NUMBER
ID-01
SHEET 1 OF 1

MAINLINE AND LATERAL LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING FDEP GUIDELINES AND TO IRRIGATION SPECIFICATIONS AND DETAILS.



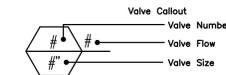
IRRIGATED AREAS:

TOTAL IRRIGATED AREA: 4,170 +/- SQ. FT.
HIGH FLOW/ SPRAY AREA: 0 +/- SQ. FT.
LOW FLOW/ DRIP AREA: 4,170 +/- SQ. FT.

NOTE: IRRIGATION SHALL BE IN ACCORDANCE WITH MARION COUNTY CODE. THE SYSTEM IS PROPOSED AS PERMANENT.

IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL | QTY | ARC | PSI | GPM | RADIUS |
|--------|--|------------|-----|-----|-----|--------|
| ☐ | Rain Bird 1800-1400 Flood 1402 | 23 | 360 | 30 | 0.5 | 3' |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | | | | |
| ☒ | Rain Bird XCZ-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PESB-R Scrubber Globe Valve with single 1-1/2" Pressure Regulating (40psi) Quick-Check Basket Filters. Flow range: 15-62gpm. | 3 | | | | |
| ▨ | Area to Receive Dripline Netafim TLCV-09-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.9 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm. | 3,589 l.f. | | | | |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION | QTY | | | | |
| ⊙ | Rain Bird PESBR 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle. | 1 | | | | |
| ⊙ | Febco 825Y 1" Reduced Pressure Backflow Preventer | 1 | | | | |
| ⊙ | Rain Bird ESP8XMEF 8 Station Capable Commercial Controller. Mounted on a Plastic Wall Mount. Flow Sensing and Water Management Capabilities | 1 | | | | |
| ⊙ | Hunter MINI-CLIK Rain Sensor, mount as noted | 1 | | | | |
| ⊙ | Water Meter 1" | 1 | | | | |
| — | Irrigation Lateral Line: PVC Class 200 SDR 21-NP | 1,451 l.f. | | | | |
| --- | Irrigation Mainline: PVC Schedule 40-NP | 36.3 l.f. | | | | |
| --- | Pipe Sleeve: PVC Schedule 40 | 78.2 l.f. | | | | |

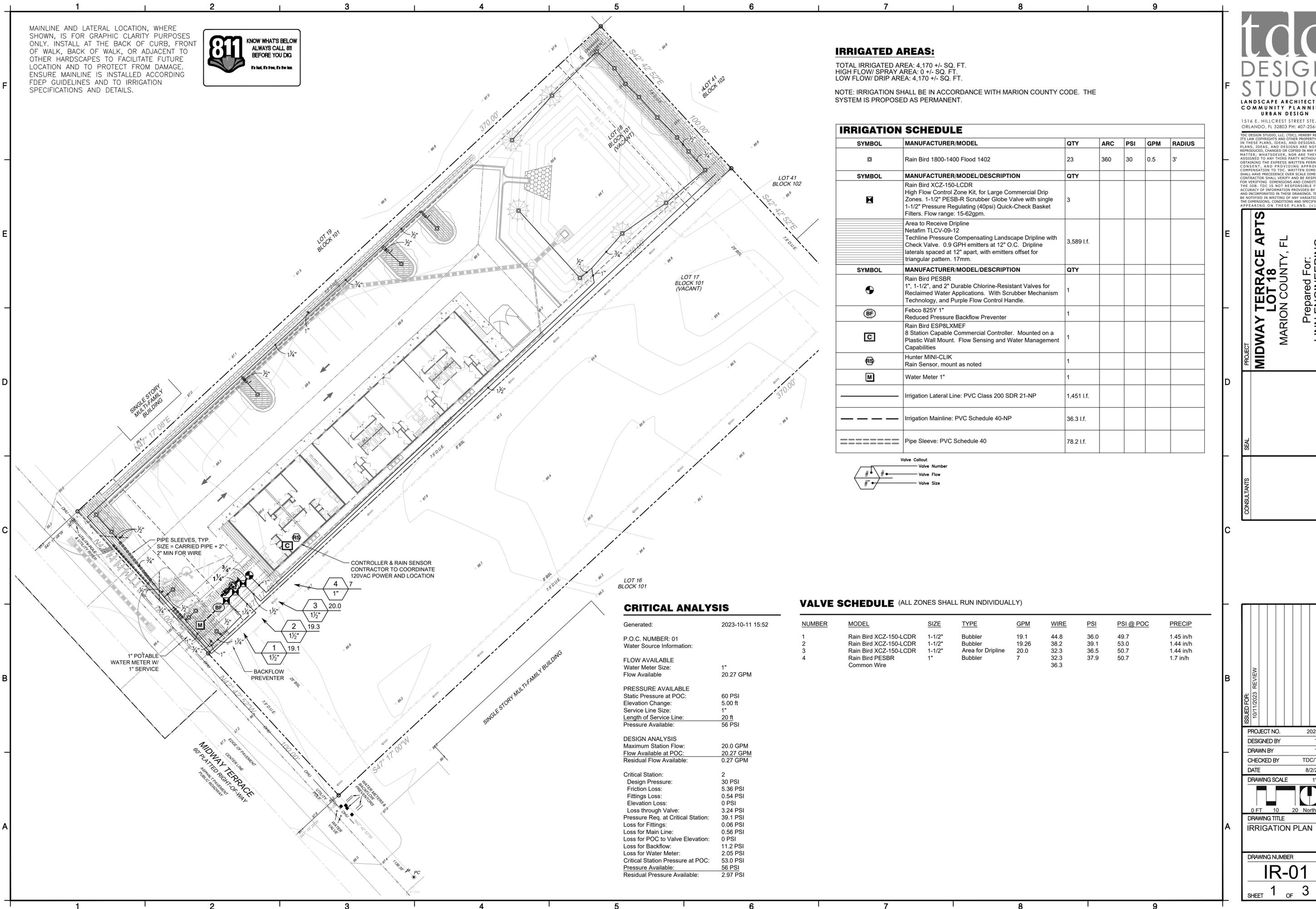


CRITICAL ANALYSIS

Generated: 2023-10-11 15:52
P.O.C. NUMBER: 01
Water Source Information:
FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 20.27 GPM
PRESSURE AVAILABLE
Static Pressure at POC: 60 PSI
Elevation Change: 5.00 ft
Service Line Size: 1"
Length of Service Line: 20 ft
Pressure Available: 56 PSI
DESIGN ANALYSIS
Maximum Station Flow: 20.0 GPM
Flow Available at POC: 20.27 GPM
Residual Flow Available: 0.27 GPM
Critical Station: 2
Design Pressure: 20 PSI
Friction Loss: 5.36 PSI
Fittings Loss: 0.54 PSI
Elevation Loss: 0 PSI
Loss through Valve: 3.24 PSI
Pressure Req. at Critical Station: 39.1 PSI
Loss for Fittings: 0.06 PSI
Loss for Main Line: 0.56 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 11.2 PSI
Loss for Water Meter: 2.05 PSI
Critical Station Pressure at POC: 53.0 PSI
Pressure Available: 56 PSI
Residual Pressure Available: 2.97 PSI

VALVE SCHEDULE (ALL ZONES SHALL RUN INDIVIDUALLY)

| NUMBER | MODEL | SIZE | TYPE | GPM | WIRE | PSI | PSI @ POC | PRECIP |
|--------|------------------------|--------|-------------------|-------|------|------|-----------|-----------|
| 1 | Rain Bird XCZ-150-LCDR | 1-1/2" | Bubbler | 19.1 | 44.8 | 36.0 | 49.7 | 1.45 in/h |
| 2 | Rain Bird XCZ-150-LCDR | 1-1/2" | Bubbler | 19.26 | 38.2 | 39.1 | 53.0 | 1.44 in/h |
| 3 | Rain Bird XCZ-150-LCDR | 1-1/2" | Area for Dripline | 20.0 | 32.3 | 36.5 | 50.7 | 1.44 in/h |
| 4 | Rain Bird PESBR | 1" | Bubbler | 7 | 32.3 | 37.9 | 50.7 | 1.7 in/h |
| | Common Wire | | | | 36.3 | | | |



PROJECT: MIDWAY TERRACE APTS LOT 18 MARION COUNTY, FL
SEAL: [Blank]
CONSULTANTS: [Blank]

ISSUED FOR: 10/11/2023 REVIEW

| | |
|---------------|----------|
| PROJECT NO. | 2023-17 |
| DESIGNED BY | TFW |
| DRAWN BY | TFW |
| CHECKED BY | TDC/TFW |
| DATE | 8/2/2023 |
| DRAWING SCALE | 1"=20' |

| | |
|----------------|-----------------|
| DRAWING TITLE | IRRIGATION PLAN |
| DRAWING NUMBER | IR-01 |

| | |
|----------------|--------|
| DRAWING NUMBER | IR-01 |
| SHEET | 1 OF 3 |

IRRIGATION NOTES & SPECIFICATIONS

Irrigation design based on the TDC Design Studio Landscape Plan dated 7/19/2021. Contractor shall refer to these plans to coordinate sprinkler and pipe locations.

The system has been designed to conform with the requirements of all applicable codes, laws, ordinances, rules, regulations and conventions. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed as designed. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.

THE WORK

The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, and details. This work shall include, but not be limited to, the providing of all required material if applicable (pump(s), backflows, pipes, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compacting, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain (and freeze as appropriate) shut off device. If the rain shut off device is a rain sensor, it shall be installed to prevent activation by adjacent heads. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item.

These plans have been designed to satisfy/exceed the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition. All products should be installed per manufacturer's recommendation. Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation contractor shall repair or replace all items damaged by their work. Irrigation contractor shall coordinate their work with other contractors for the location and installation of pipe sleeves and laterals through walls, under roadways and paving, etc.

The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.

POINT OF CONNECTION (P.O.C.)

There is ONE P.O.C.(s)

#1-P.O.C. is a new a new 1" potable meter (by others) with a 1" service line by others. The P.O.C. must be capable of delivering a minimum of 20.3 GPM at 60 PSI downstream of the water meter.

Contractor to verify these minimum conditions can be met prior to ordering of materials and the beginning of installation. If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PIPE

Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a maximum of 18" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project property's boundary.

All pipes are to be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, walks, and patios, the pipes must be sleeved using Class 200 PVC with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.

Mainline shall be Pantone Purple Sch 40 solvent-weld (sized per plan) PVC with Sch 40 PVC solvent-weld fittings.

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer: The PVC cement shall be Weld-On 711 (grey, slow-drying, heavy duty) and the primer shall be Weld-On P70 (purple tinted, compatible with cement), or approved equals.

ELECTRICAL POWER SUPPLY

Electrical supply for irrigation pumps, controllers, sensors, relaysto be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supplies for required electrical components as set forth in the irrigation plans.

All electrical work is to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for each controller/CCU shall be a dedicated 120 volt, 20 amp circuit unless otherwise specified in the plans. Power for each pump to be according to pump specifications indicated in these plans.

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire, suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2" coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3MDBY/R connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows:

- #14 white for common
#14 spare black common
#14 individual color coded hot wire
#14 spare yellow hot wire

Spare wires

Leaving each controller, run six spare wires in both directions (twelve spare wires total). Install as 2 common spares (4 total) and 4 hot wires (8 total). Loop these wires into each RCV along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 8" and be readily accessible by opening the valve box lid. These wires must be all numbered and color coded as required in these plans.

Controller and Pump station Control Panel grounding - Contractor to utilize 4"X8"X5/8" copper grounding plates, 5/8"X10" copper clad grounding rods, 'One Strike' CAD wells at all connection points, #6 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.

Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.

VALVES

Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

Using an electric branding iron, brand the valve I.D. letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.

EQUIPMENT

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC triple swing joints unless otherwise detailed.

All sprinkler equipment, not otherwise detailed or specified on these plans, shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION

Solvent Weld Pipe: Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

Gasketed Pipe: With pipe in the trench, cut pipe square, deburr, and place beveled edge on male portion of pipe, if not using a piece with a factory bevel. Clean pipe and fittings of foreign material; then apply a small amount of pipe grease to the rubber gasket on the female end. Fully insert the male end of the pipe into the bell end of adjacent pipe until the bevel is fully seated into the bell. Restrain pipe as required.

BACK FILL

The Back fill 6" below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

Main line pipe depth measured to the top of pipe shall be:
24" minimum for 3/4"-2 1/2" PVC with a 30" minimum at vehicular crossings;
30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings.
36" minimum for 6" PVC with a 36" minimum at vehicular crossings;

Lateral line depths measured to top of pipe shall be:
18" minimum for 3/4"-3" PVC with a 30" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING

Prior to the placement of valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Prior to the placement of heads, flush all lateral lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving.

TESTING

Soil: At a minimum of 2 locations on the site, soil tests for Infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at http://soils.usda.gov/sqi/assessment/test_kit.html) The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.

Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. For HDPE pipe, see HDPE notes. For gasketed pipe, testing requires measurement of the water pumped into the mainline system, using a hydrostatic pump, to maintain 125 PSI - this water volume shall be no more than the result of the following formula:
L=(ND*P)/7400

where L=Allowable leakage in gallons per hour
N=Number of joints in pipe tested
D=Nominal diameter of pipe (in inches)
P=Average Test Pressure (in PSI)

If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

Lateral Lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.

Operational Testing -Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative, that proper coverage is obtained and the system works automatically from the controller. This demonstration requires each zone to be turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Upon completion of the operational test, run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In fine sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.

SUBMITTALS

Pre-Construction: The contractor must submit for written approval, prior to installation, five (5) copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system.

After project completion: As a condition of final acceptance, the irrigation contractor shall provide the owner with:
1. Irrigations As-builts - shall be provided utilizing a sub-foot Global Positioning System (GPS) to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections in Florida East State Plane, NAD 83, and CORS 96 format. The data collected shall be in POINT format and include an ID for each data point with Manufacturer, Type, Size, and Depth. All mainline and

independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format. These POINTS once collected shall be imported into an AutoCAD DWG geo-referenced base file to be labeled accordingly. The completed AS-Built shall be a Geo-Referenced DWF file and delivered to the owner on a compact disk (CD).

2. Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.

3. Grounding Certification - Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indicating location tested (using IR plan symbols), date, time, test method, and testing results.

INSPECTIONS AND COORDINATION MEETINGS REQUIRED - Contractor is required to schedule, perform, and attend the following; and demonstrate to the owner and/or owners representative to their satisfaction, as follows:

- 1. Pre-construction meeting - Designer and contractor to review entire install process and schedule with owner/general contractor.
2. Mainline installation inspection(s) - all mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method
3. Mainline pressure test - All mainline shall be pressure tested according to this designs requirements
4. Flow Meter calibration - All flow meters must be calibrated, provide certified calibration report for all flow meters.
5. USDA Soil Quality Tests for infiltration/texture
6. Coverage and operational test
7. Final inspection
8. Punch list inspection

FINAL ACCEPTANCE

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

- 1. All above inspections are completed, documented, and approved by owner.
2. Completion and acceptance of 'as-built' drawings.
3. Acceptance of required controller charts and placement inside of controllers.
4. All other submittals have been made to the satisfaction of the owner.

GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1. Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks:

- A. Turn on each zone from the controller to verify automatic operation.
B. Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements.
C. Check remote control valve to ensure proper operation.
D. Check setting on pressure regulator to verify proper setting, if present.
E. Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller.
F. Check for leaks - mainline, lateral lines, valves, heads, etc.
G. Check all heads as follows:

- 1. Proper set height (top of sprinkler is 1" below mow height)
2. Verify head pop-up height - 6" in turf, 12" in ground cover, and pop-up on riser in shrub beds.
3. Check wiper seal for leaks - if leaking, clean head and re-inspect. If still leaking, replace head with the appropriate head with pressure regulator and built-in check valve.
4. All nozzles checked for proper pattern, clogging, leaks, correct make & model, etc. - replace as needed
5. Check for proper alignment - perfectly vertical; coverage area is correct; minimize over spray onto hardscapes.
6. Riser height raised/lowered to accommodate plant growth patterns and ensure proper coverage.
7. verify the pop-up riser retracts after operation. If not, repair/replace as needed.

2. Check controller/C.C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports.

3. Check rain shut-off device monthly to ensure it functions properly.

4. Inspect all filters monthly and clean/repair/replace as needed.

5. Inspect backflow devices by utilizing a properly licensed backflow inspector. This should be done annually, at minimum.

6. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked.
7. Check pump stations for proper operation, pressures, filtration, settings, etc. - refer to pump station operations manual.

8. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed.

9. Winterize, if applicable, as weather in your area dictates. Follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations.

10. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.



LANDSCAPE ARCHITECTURE
COMMUNITY PLANNING
URBAN DESIGN

1514 E. HILLCREST STREET STE. 105
ORLANDO, FL 32803 PH: 407-256-2625

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MIDWAY TERRACE APTS
LOT 18
MARION COUNTY, FL
Prepared For: LINN ENGINEERING

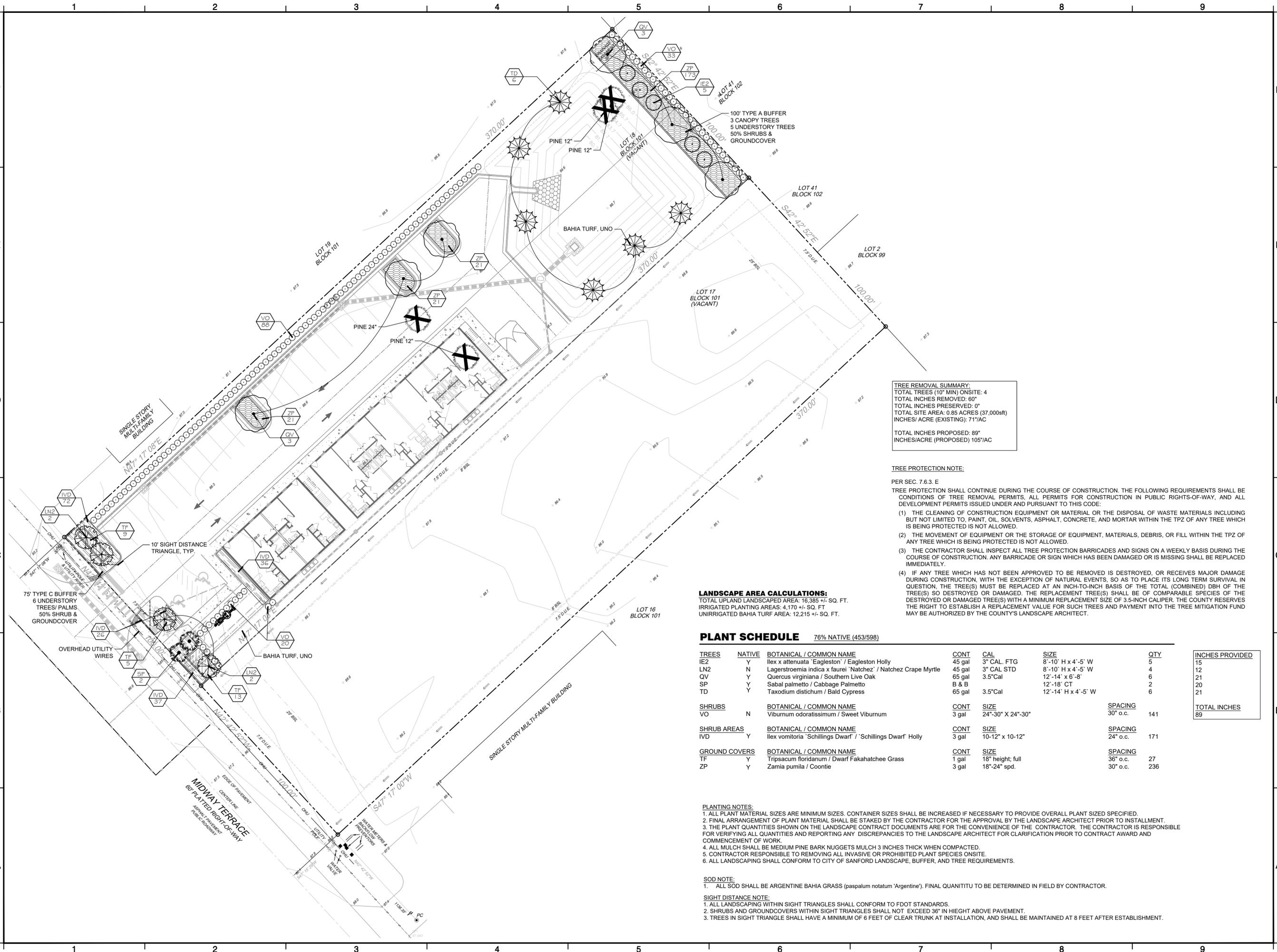
Table with columns for PROJECT, SEAL, and CONSULTANTS.

Table with columns for ISSUED FOR, PROJECT NO., DESIGNED BY, DRAWN BY, CHECKED BY, DATE, and DRAWING SCALE.

Table with columns for ISSUED FOR, PROJECT NO., DESIGNED BY, DRAWN BY, CHECKED BY, DATE, and DRAWING SCALE.

Table with columns for DRAWING TITLE and DRAWING NUMBER.

Table with columns for DRAWING TITLE, DRAWING NUMBER, and SHEET OF.



TREE REMOVAL SUMMARY:
TOTAL TREES (10" MIN) ONSITE: 4
TOTAL INCHES REMOVED: 60"
TOTAL INCHES PRESERVED: 0"
TOTAL SITE AREA: 0.85 ACRES (37,000sqft)
INCHES/ ACRE (EXISTING): 71"/AC

TOTAL INCHES PROPOSED: 89"
INCHES/ACRE (PROPOSED) 105"/AC

TREE PROTECTION NOTE:

PER SEC. 7.6.3. E

TREE PROTECTION SHALL CONTINUE DURING THE COURSE OF CONSTRUCTION. THE FOLLOWING REQUIREMENTS SHALL BE CONDITIONS OF TREE REMOVAL PERMITS. ALL PERMITS FOR CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY, AND ALL DEVELOPMENT PERMITS ISSUED UNDER AND PURSUANT TO THIS CODE:

- THE CLEANING OF CONSTRUCTION EQUIPMENT OR MATERIAL OR THE DISPOSAL OF WASTE MATERIALS INCLUDING BUT NOT LIMITED TO, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, AND MORTAR WITHIN THE TPZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
- THE MOVEMENT OF EQUIPMENT OR THE STORAGE OF EQUIPMENT, MATERIALS, DEBRIS, OR FILL WITHIN THE TPZ OF ANY TREE WHICH IS BEING PROTECTED IS NOT ALLOWED.
- THE CONTRACTOR SHALL INSPECT ALL TREE PROTECTION BARRICADES AND SIGNS ON A WEEKLY BASIS DURING THE COURSE OF CONSTRUCTION. ANY BARRICADE OR SIGN WHICH HAS BEEN DAMAGED OR IS MISSING SHALL BE REPLACED IMMEDIATELY.
- IF ANY TREE WHICH HAS NOT BEEN APPROVED TO BE REMOVED IS DESTROYED, OR RECEIVES MAJOR DAMAGE DURING CONSTRUCTION, WITH THE EXCEPTION OF NATURAL EVENTS, SO AS TO PLACE ITS LONG TERM SURVIVAL IN QUESTION, THE TREE(S) MUST BE REPLACED AT AN INCH-TO-INCH BASIS OF THE TOTAL (COMBINED) DBH OF THE TREE(S) SO DESTROYED OR DAMAGED. THE REPLACEMENT TREE(S) SHALL BE OF COMPARABLE SPECIES OF THE DESTROYED OR DAMAGED TREE(S) WITH A MINIMUM REPLACEMENT SIZE OF 3.5-INCH CALIPER. THE COUNTY RESERVES THE RIGHT TO ESTABLISH A REPLACEMENT VALUE FOR SUCH TREES AND PAYMENT INTO THE TREE MITIGATION FUND MAY BE AUTHORIZED BY THE COUNTY'S LANDSCAPE ARCHITECT.

LANDSCAPE AREA CALCULATIONS:

TOTAL UPLAND LANDSCAPED AREA: 16,385 +/- SQ. FT.
IRRIGATED PLANTING AREAS: 4,170 +/- SQ. FT
UNIRRIGATED BAHIA TURF AREA: 12,215 +/- SQ. FT.

PLANT SCHEDULE 76% NATIVE (453/598)

| TREES | NATIVE | BOTANICAL / COMMON NAME | CONT | CAL | SIZE | QTY | INCHES PROVIDED |
|---------------|--------|--|--------|-------------------|---------------------|-----|-----------------|
| IE2 | Y | Ilex x attenuata "Eagleston" / Eagleston Holly | 45 gal | 3" CAL. FTG | 8'-10" H x 4'-5" W | 5 | 15 |
| LN2 | N | Lagerstroemia indica x faurei "Natchez" / Natchez Crape Myrtle | 45 gal | 3" CAL STD | 8'-10" H x 4'-5" W | 4 | 12 |
| QV | Y | Quercus virginiana / Southern Live Oak | 65 gal | 3.5" Cal | 12'-14" x 6'-8" | 6 | 21 |
| SP | Y | Sabal palmetto / Cabbage Palmetto | B & B | | 12'-18" CT | 2 | 20 |
| TD | Y | Taxodium distichum / Bald Cypress | 65 gal | 3.5" Cal | 12'-14" H x 4'-5" W | 6 | 21 |
| SHRUBS | | BOTANICAL / COMMON NAME | CONT | SIZE | SPACING | QTY | TOTAL INCHES |
| VO | N | Viburnum odoratissimum / Sweet Viburnum | 3 gal | 24"-30" X 24"-30" | 30" o.c. | 141 | 89 |
| SHRUB AREAS | | BOTANICAL / COMMON NAME | CONT | SIZE | SPACING | QTY | |
| IVD | Y | Ilex vomitoria "Schillings Dwarf" / "Schillings Dwarf" Holly | 3 gal | 10-12" x 10-12" | 24" o.c. | 171 | |
| GROUND COVERS | | BOTANICAL / COMMON NAME | CONT | SIZE | SPACING | QTY | |
| TF | Y | Tripsacum floridanum / Dwarf Fakahatchee Grass | 1 gal | 18" height; full | 36" o.c. | 27 | |
| ZP | Y | Zamia pumila / Coontie | 3 gal | 18"-24" spd. | 30" o.c. | 236 | |

PLANTING NOTES:

- ALL PLANT MATERIAL SIZES ARE MINIMUM SIZES. CONTAINER SIZES SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZED SPECIFIED.
- FINAL ARRANGEMENT OF PLANT MATERIAL SHALL BE STAKED BY THE CONTRACTOR FOR THE APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLMENT.
- THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.
- ALL MULCH SHALL BE MEDIUM PINE BARK NUGGETS MULCH 3 INCHES THICK WHEN COMPACTED.
- CONTRACTOR RESPONSIBLE TO REMOVING ALL INVASIVE OR PROHIBITED PLANT SPECIES ONSITE.
- ALL LANDSCAPING SHALL CONFORM TO CITY OF SANFORD LANDSCAPE, BUFFER, AND TREE REQUIREMENTS.

SOD NOTE:

- ALL SOD SHALL BE ARGENTINE BAHIA GRASS (paspalum notatum 'Argentine'). FINAL QUANTITTY TO BE DETERMINED IN FIELD BY CONTRACTOR.

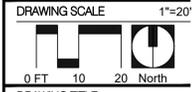
SIGHT DISTANCE NOTE:

- ALL LANDSCAPING WITHIN SIGHT TRIANGLES SHALL CONFORM TO FDOT STANDARDS.
- SHRUBS AND GROUNDCOVERS WITHIN SIGHT TRIANGLES SHALL NOT EXCEED 36" IN HEIGHT ABOVE PAVEMENT.
- TREES IN SIGHT TRIANGLE SHALL HAVE A MINIMUM OF 6 FEET OF CLEAR TRUNK AT INSTALLATION, AND SHALL BE MAINTAINED AT 8 FEET AFTER ESTABLISHMENT.

ISSUED FOR: 10/11/2023 REVIEW

| | |
|---------------|----------|
| PROJECT NO. | 2023-17 |
| DESIGNED BY | TFW |
| DRAWN BY | TFW |
| CHECKED BY | TDC/TFW |
| DATE | 8/2/2023 |
| DRAWING SCALE | 1"=20' |

| | |
|---------------|----------|
| PROJECT NO. | 2023-17 |
| DESIGNED BY | TFW |
| DRAWN BY | TFW |
| CHECKED BY | TDC/TFW |
| DATE | 8/2/2023 |
| DRAWING SCALE | 1"=20' |



DRAWING TITLE
LANDSCAPE PLAN

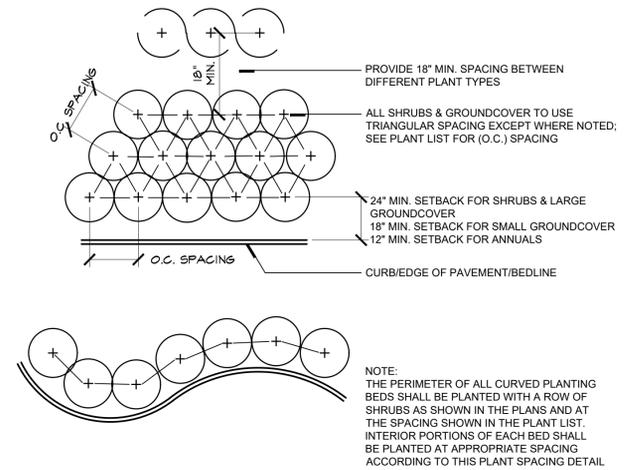
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LS-01

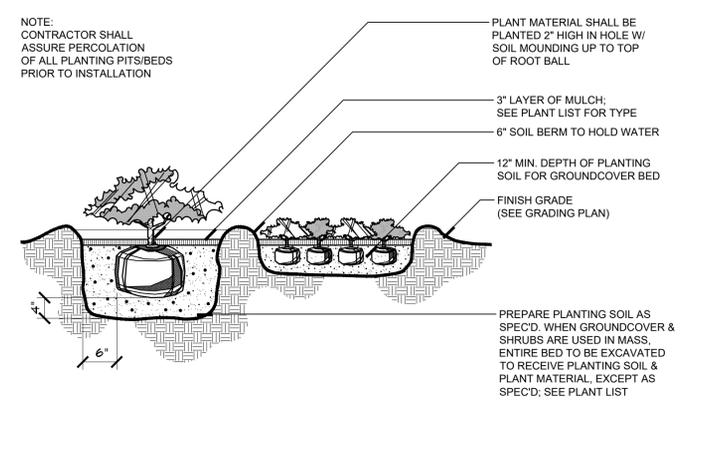
SHEET 1 OF 2

| | |
|---------------|--|
| PROJECT | MIDWAY TERRACE APTS LOT 18 MARION COUNTY, FL |
| DESIGNED BY | TFW |
| DRAWN BY | TFW |
| CHECKED BY | TFW |
| DATE | 8/2/2023 |
| DRAWING SCALE | AS SHOWN |

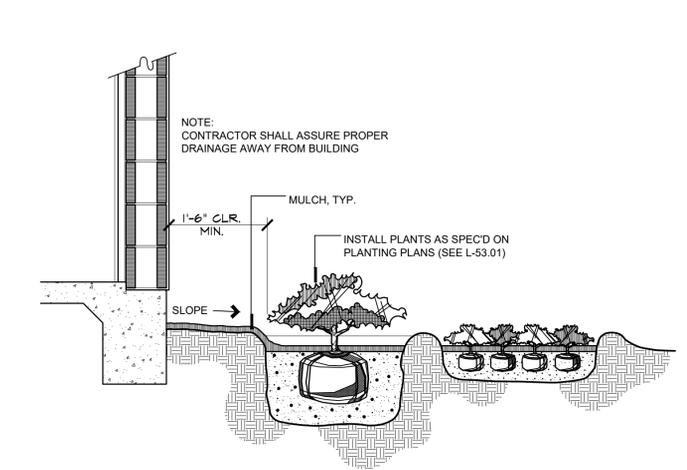
| | |
|----------------|---------------------------------------|
| PROJECT NO. | 2023-17 |
| DESIGNED BY | TFW |
| DRAWN BY | TFW |
| CHECKED BY | TFW |
| DATE | 8/2/2023 |
| DRAWING SCALE | AS SHOWN |
| DRAWING TITLE | LANDSCAPE DETAILS & SPECIFICATIONS |
| DRAWING NUMBER | LS-02 |
| SHEET | 2 OF 2 |



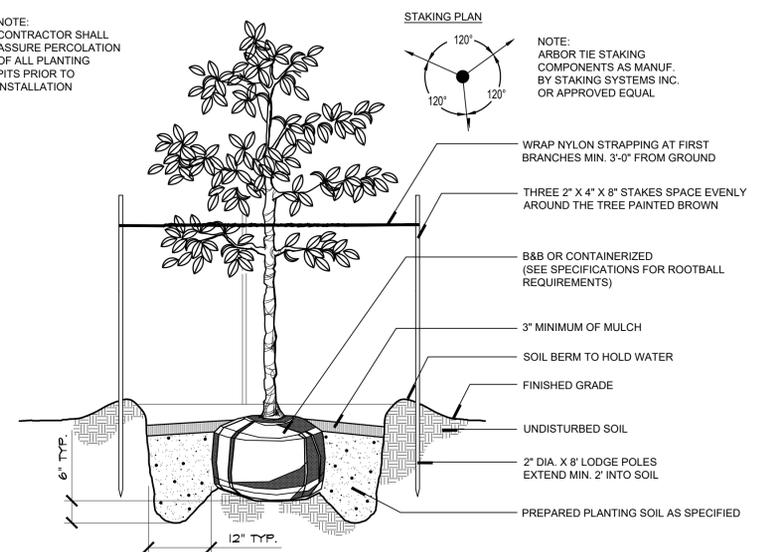
1 SHRUB & GROUND COVER SPACING
1/2" = 1'-0"
P-LA-01



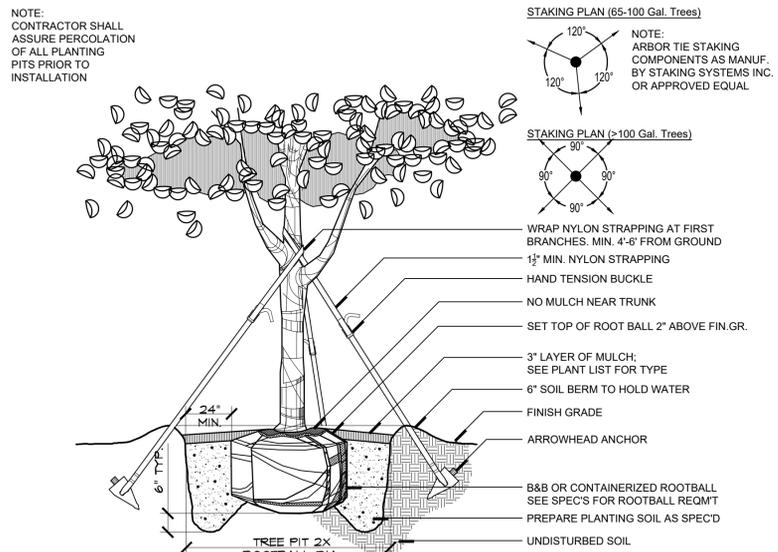
2 SHRUB & GROUND COVER PLANTING
1/2" = 1'-0"
P-LA-02



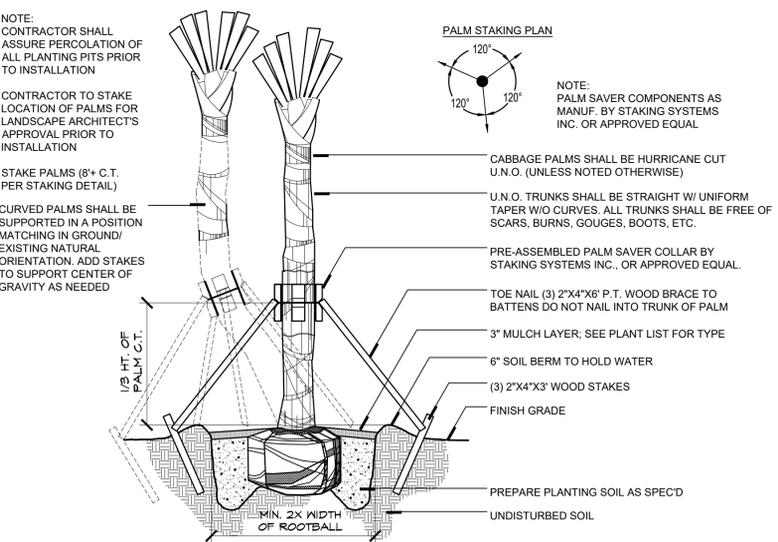
3 FOUNDATION PLANTING
1/2" = 1'-0"
P-LA-03



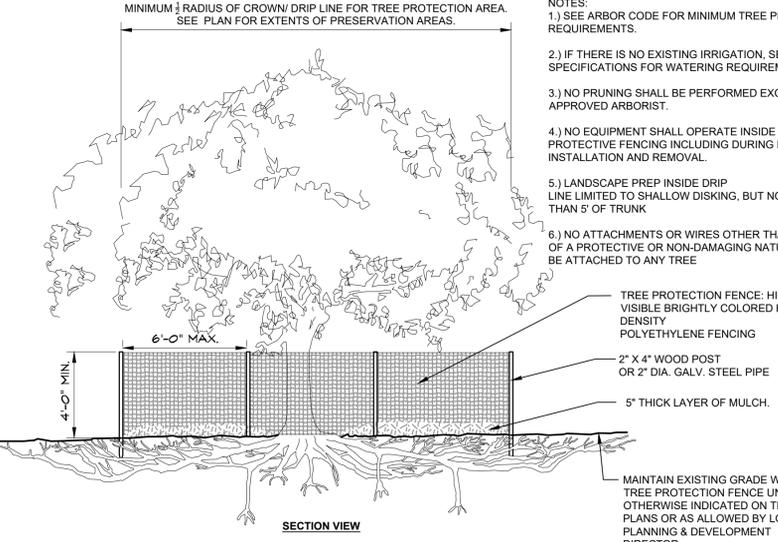
4 TREE PLANTING (15-45 GAL.)
1/2" = 1'-0"
P-LA-05



5 TREE PLANTING (65-100 GAL.)
1/2" = 1'-0"
P-LA-06



6 PALM PLANTING DETAIL
1/2" = 1'-0"
P-LA-07

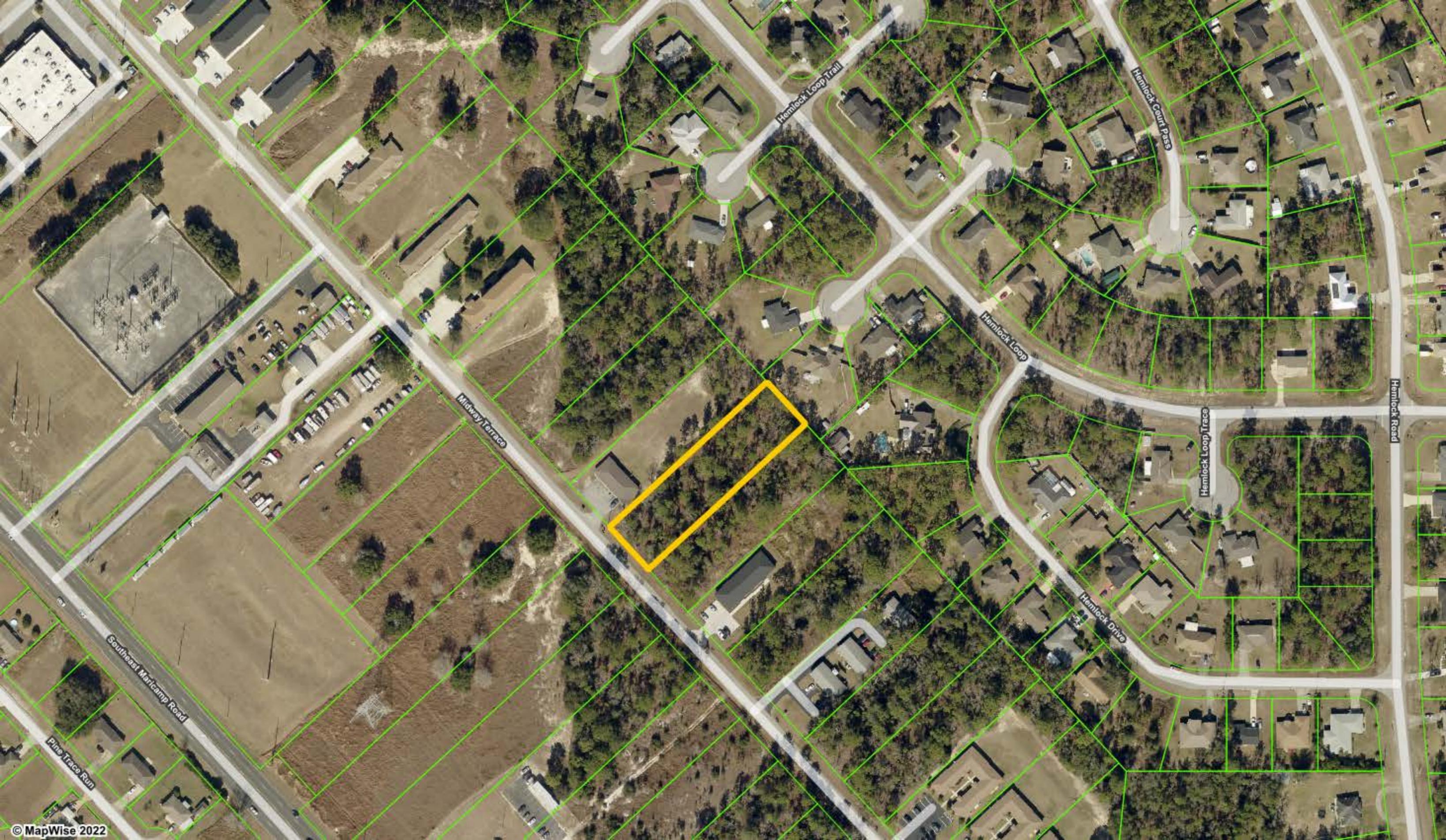


7 TREE PROTECTION
N.T.S.
P-CO1-WAT-W2C-30

LANDSCAPE SPECIFICATIONS:

- PART 1 - GENERAL**
- 1.01 WORK INCLUDED
 - A. INSTALLATION OF TREES, PALMS, SHRUBS, GROUNDCOVERS, AND GRASS SOD.
 - B. APPLICATION AND PAYMENT FOR REQUIRED REVIEWS.
 - 1.02 REFERENCES
 - A. "GRADES AND STANDARDS FOR NURSERY PLANTS," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
 - B. "AMERICAN STANDARD FOR NURSERY STOCK," ANSI Z60.1-2004, AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
 - 1.03 SUBMITTALS
 - A. RECORD DRAWINGS: FURNISH ONE SET OF REPRODUCIBLE RECORD DRAWINGS, CLEARLY SHOWING ALL CHANGED MADE TO THE ORIGINAL CONTRACT DRAWINGS DURING THE COURSE OF WORK.
 - B. SOIL ANALYSIS: SUBMIT SOIL TEST RESULTS FROM AN INDEPENDENT SOIL TESTING LABORATORY PRIOR TO PLANTING.
 - 1.04 DELIVERY, STORAGE, AND HANDLING
 - A. INSPECTION: UPON DELIVERY TO THE SITE, INSPECT ALL PLANT MATERIALS FOR CONFORMITY TO THE SPECIFICATIONS AND FOR HANDLING DAMAGE. REMOVE FROM THE SITE ALL NON-CONFORMING AND DAMAGED PLANT MATERIALS.
 - B. ON-SITE STORAGE: PROTECT ALL STORED PLANT MATERIALS FROM SUN AND WIND. WATER ALL STORED PLANT MATERIAL DAILY. OWNER TO INDICATE APPROPRIATE LOCATION FOR MATERIAL(S) AND EQUIPMENT STORAGE.
 - 1.05 GUARANTEE
 - A. GUARANTEE ALL PLANTING WORK FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL APPROVAL AND ACCEPTANCE.
 - B. REPLACE AT NO COST TO THE OWNER ALL PLANT MATERIALS WHICH DIE OF ARE DETERMINED BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE TO BE UNACCEPTABLE, UNLESS THE DEATH OR UNACCEPTABLE CONDITION IS CLEARLY BEYOND THE CONTROL OF THE CONTRACTOR, AS DETERMINED BY THE OWNER. SUCH CIRCUMSTANCES MAY INCLUDE ACTS OF MOTHER NATURE, THEFT AFTER FINAL INSPECTION, OR VANDALISM. UNACCEPTABLE PLANTS SHALL INCLUDE THOSE THAT SHOW SIGNIFICANT DIE-BACK OR FAILURE TO EXHIBIT THE HEALTHY CHARACTERISTICS INDICATIVE OF THE SPECIES.
 - 1.06 MAINTENANCE
 - A. MAINTAIN ALL LANDSCAPING UNTIL ONE YEAR AFTER FINAL APPROVAL AND ACCEPTANCE.
 - B. MAINTENANCE TO INCLUDE:
 1. CULTIVATING AND WEEDING PLANT BEDS AND TREE PITS.
 2. APPLICATION OF HERBICIDES AND PESTICIDES
 3. IRRIGATION SUFFICIENT TO SATURATE ROOT SYSTEMS APPLIED DAILY.
 4. TRIMMING AND PRUNING, INCLUDING REMOVAL OF CLIPPINGS AND DEAD OR BROKEN BRANCHES, AND TREATMENT OF PRUNED AREAS OR OTHER WOUNDS.
 5. DISEASE CONTROL.
 6. MAINTAINING GUYS AND STAKES IN A TIGHT CONDITION.
 7. MAINTAINING TREES IN A PLUMB CONDITION.
 8. WEEKLY MOWING AFTER SOD IS SUFFICIENTLY ROOTED.
- PART 2 - PRODUCTS**
- 2.01 PLANT MATERIALS
 - A. TREES AND SHRUBS: ALL PLANT MATERIALS SHALL BE FLORIDA #1 AS OUTLINED IN 'GRADES AND STANDARDS FOR NURSERY PLANTS.'
 - B. SOD: PROVIDE ONLY NURSERY GROWN, MACHINE CUT SOD OF THE TYPE INDICATED ON THE DRAWINGS. SOD SHALL BE WELL-MATTED WITH ROOTS, FREE OF EXCESSIVE WEEDS, AND SHALL BE GREEN, FRESH AND UNINJURED AT THE TIME OF PLANTING.
 - 2.02 SOIL MATERIALS
 - A. TOPSOIL: FERTILE, AGRICULTURAL TOPSOIL, TYPICAL FOR PROJECT LOCALITY, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH, TAKEN FROM DRAINED SITE, FREE OF SUBSOIL, CLAY, PLANTS, WEEDS AND ROOTS, pH RANGE OF 5.5 TO 7.0, MINIMUM 4 PERCENT, MAXIMUM 20 PERCENT ORGANIC MATTER.
 - B. PEAT MOSS: SHREDDDED, LOOSE, SPHAGNUM MOSS, FREE OF LUMPS, ROOTS, INORGANIC MATERIAL, MINIMUM 85 PERCENT ORGANIC MATERIAL MEASURED BY OVEN DRY WEIGHT, 4 TO 5 pH RANGE, MOISTURE CONTENT OF 30 PERCENT
 - C. SAND: COARSE, WASHED, BUILDERS SAND
 - D. PLANTING SOIL MIXTURE: PROVIDE MIXTURE OF IMPORTED TOPSOIL OR APPROVED TOPSOIL FROM SITE, PEAT, SAND, AND OTHER AMENDMENTS AS RECOMMENDED BY THE INDEPENDENT SOIL TESTING LABORATORY FOR THE SPECIFIED PLANTS.
 - 2.03 OTHER MATERIALS
 - A. MULCH: PINE BARK MINI NUGGETS OR PINE STRAW 3" THICK COMPACTED UNDER ALL TREES, PALMS, SHRUBS, & GROUND COVER.
 - B. FERTILIZER:
 1. FLOWERING ANNUALS AND BEDDING PLANTS: SIERRABLEN 18-7-10 (+IRON), RATE OF APPLICATION 2LBS PER 100 SQ. FT.
 2. CONTAINER GROWN TREES, SHRUBS, AND GROUND COVER: AGRIFORM 21 GRAM TABLETS, RATE OF APPLICATION AS FOLLOWS:

| | |
|---------------------------------|---------------------------------|
| (1-2 GALLON PLANTS: 1 TABLET) | (30 GALLON PLANTS: 6 TABLETS) |
| (3-5 GALLON PLANTS: 2 TABLETS) | (65 GALLON PLANTS: 8 TABLETS) |
| (7-10 GALLON PLANTS: 3 TABLETS) | (100 GALLON PLANTS: 10 TABLETS) |
| (15 GALLON PLANTS: 4 TABLETS) | (200 GALLON PLANTS: 15 TABLETS) |
 3. FIELD GROWN AND COLLECTED TREES: AGRIFORM 21 GRAM TABLETS, ONE TABLET PER 1/2" OF CALIPER FOR STANDARD TREES, ONE TABLET PER FOOT SPREAD FOR MULTI-TRUNK TREES.
 4. NEWLY PLANTED SOD: 6-6-6 APPLIED PER MANUFACTURER'S INSTRUCTIONS.
 - 2.04 TESTS
 - A. PROVIDE ANALYSIS OF IMPORTED TOPSOIL INDICATING pH VALUE AND PERCENTAGE OF NITROGEN, PHOSPHORUS, POTASH, SOLUBLE SALT, AND ORGANIC MATTER.
 - B. PROVIDE ANALYSIS OF EXISTING SOIL IN REPRESENTATIVE PLANTING AREAS, INDICATING REPRESENTATIVE PLANTING AREAS, INCLUDING LABORATORY RECOMMENDATIONS FOR SOIL AMENDMENTS NECESSARY FOR OPTIMAL PLANT GROWTH.
- PART 3 - EXECUTION**
- 3.01 PREPARATION
 - A. FINE GRADING: FINE GRADE PLANTING AREA, AS INDICATED ON THE DRAWINGS, ELIMINATING LOW OR ROUGH AREAS, AND BUILDING DEBRIS, STONES AND RUBBLE. FINISH GRADES SHALL BE SLOPED IN THE SAME DIRECTION AS EXISTING DRAINAGE. NEW GRADES SHALL NOT REVIEW PONDING OR STANDING WATER.
 - B. ALERT THE OWNER OF POTENTIAL GRADING AND DRAINAGE PROBLEMS, INCLUDING DEPRESSED PLANTING AREAS WITH NO OUTFALL, SATURATED PLANTING AREAS, PLANTING PITS THAT HOLD WATER FOR PROLONGED PERIODS, AND ANY OTHER CONDITION DETERMINAL TO OPTIMUM PLANT GROWTH.
 - 3.02 PLANTING
 - A. TAKE LOCATIONS OF ALL TREES AND SHRUBS. ALIGN WITH ARCHITECTURAL OR ENGINEERING REFERENCES FEATHERS AS INDICATED ON THE DRAWINGS. INFORM LANDSCAPE ARCHITECT OF UNFORESEEN OBSTACLES WHICH MAY AFFECT THE LOCATIONS AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR APPROVAL OF ALL STAKED PLANTINGS PRIOR TO INSTALLATION.
 - B. PLANT TREES AND SHRUBS, ROTATING AS NECESSARY FOR BEST APPEARANCE FROM THE PREDOMINANT VIEWPOINT.
 - C. LAY OUT SHRUB BEDS, SCALING THE LOCATIONS AND DIMENSIONS OF EACH BED, FOLLOWING THE CONFIGURATIONS INDICATED ON THE DRAWINGS. ADJUST THE BED DIMENSIONS TO THE QUANTITY AND SPACING OF PLANTS SHOWN ON THE PLANT LIST OR SCALED FROM THE DRAWINGS. INFORM THE LANDSCAPE ARCHITECT OF SIGNIFICANT DISCREPANCIES BETWEEN PLAN BED DIMENSIONS AND PLANT QUANTITIES.
 - D. PLANT SHRUBS AND ANNUALS, MAINTAINING UNIFORM SPACING AS INDICATED ON THE PLANT LIST OR SCALED FROM THE DRAWINGS.
 - E. DISTRIBUTE OR DISPOSE OF EXCAVATED SOIL FROM PLANTING HOLES, MAINTAINING THE DESIRED FINISH GRADES.
 - F. LAY SOD ON FINE-GRADED, MOISTENED SOIL, WITHOUT GAPS OR OVERLAPS. TAMP OR ROLL TO PROVIDE FIRM CONTACT WITH SOIL. SOD LINE AT PLANT BEDS SHALL BE CUT TO THE CONFIGURATION AND DIMENSIONS SHOWN ON THE DRAWINGS. A MINIMUM DIMENSION SHALL BE MAINTAINED BETWEEN PLANTS AND SOD EQUAL TO ONE-HALF THE PLANT SPACING, MEASURED FROM THE CENTER OF THE PLANT TO THE EDGE OF THE SOD. A CIRCULAR RING OF 12 INCH RADIUS SHALL BE MAINTAINED FREE OF GRASS AROUND TREES WITHIN SODDED AREAS.
 - G. APPLY FERTILIZER TABLETS, EQUALLY DISTRIBUTED AROUND ROOTBALL AT A DEPTH EQUAL TO ONE-HALF THE ROOTBALL DEPTH. APPLY GRANULAR FERTILIZERS TO SOD AND BEDDING PLANTS. SWEEP FERTILIZERS FROM WALKWAYS TO AVOID STAINING.
 - H. SATURATE SOIL THOROUGHLY DURING AND AFTER BACKFILLING OF PLANTS, AND AFTER LAYING OF SOD.
 - I. APPLY A LAYER OF MULCH, MINIMUM 3 INCHES AFTER SETTLEMENT, TO ALL PLANT BEDS AND TREE RINGS.
 - J. STAKE AND GUY ALL TREES SECURELY. ATTACH WHITE SURVEYORS RIBBON TO ALL GUY WIRES ADJACENT TO PEDESTRIAN AREAS.



Hemlock Loop Trail

Hemlock Court Pass

Hemlock Loop

Midway Terrace

Hemlock Loop Trace

Hemlock Road

Hemlock Drive

Southeast Maricamp Road

Pine Trace Run