

RECEIVED

8/30/2022

CITY OF EDGEWOOD

HAVEN OAKS CONSTRUCTION PLANS

22-E-041

PARCEL ID#s: 14-23-29-0000-00-004, 14-23-29-0000-00-005,
14-23-29-0000-00-042, 14-23-29-0000-00-062,
14-23-29-0000-00-063, 14-23-29-0000-00-064

CITY OF EDGEWOOD

Zoning Plans Review

By Brett Sollazzo Date 9/26/2022

Approved Rejected

Hold on Certificate of Occupancy?

Yes No

CITY OF EDGEWOOD ZONING HOLD

LEGAL DESCRIPTION

LEGAL DESCRIPTION:

PARCEL 1:

THE WEST 165 FT OF THE FOLLOWING TRACT: BEGIN AT A POINT 6 2/3 CHAINS EAST OF THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 14, TOWNSHIP 23 S, RANGE 29 EAST, RUN THENCE EAST 5 1/3 CHAINS; THENCE SOUTH 20 CHAINS TO THE SOUTH LINE OF THE SAID NORTHWEST 1/4 OF THE NORTHWEST 1/4; 5 1/3 CHAINS; THENCE NORTH 20 CHAINS TO THE POINT OF BEGINNING.

PARCEL 2:

THE EAST 187 FEET OF THE FOLLOWING: BEGIN 440 FEET EAST OF THE NORTHWEST CORNER OF SECTION 14, TOWNSHIP 23 SOUTH, RANGE 29 EAST, RUN EAST 352 FEET; THENCE SOUTH 1320 FEET; THENCE WEST 352 FEET; THENCE NORTH 1320 FEET TO THE POINT OF BEGINNING, ORANGE COUNTY, FLORIDA (LESS THE NORTH 30 FEET FOR RIGHT OF WAY).

ALSO DESCRIBED AS THE EAST 187 FEET TO THE FOLLOWING: BEGINNING AT A POINT 6 2/3 CHAINS EAST OF THE NW CORNER OF THE NW 1/4 OF THE NW 1/4 OF SECTION 14, TOWNSHIP 23 SOUTH, RANGE 29 EAST, RUN THENCE EAST 5 1/3 CHAINS, THENCE SOUTH TO THE SOUTH LINE OF THE SAID FOR1Y 20 CHAINS; THENCE WEST ALONG THE SAID SOUTH LINE OF THE SAID FOR1Y 5 1/3 CHAINS, THENCE NORTH 20 CHAINS TO THE POINT OF BEGINNING (LESS THE NORTH 30 FEET FOR RIGHT OF WAY).

PARCEL 3

THE NORTH 380 FEET OF THE WEST 303 FEET OF THE EAST 426.7 FEET OF THE NW 1/4 OF THE NW 1/4 (LESS N 155 FEET OF E 125 FEET, AND LESS N 155 FEET OF W 128 FEET, AND LESS N 30 FEET FOR ROAD), SECTION 14, TOWNSHIP 23 SOUTH, RANGE 29 EAST, OF ORANGE COUNTY, FLORIDA.

PARCEL 4

THE NORTH 155 FEET OF THE WEST 125 FEET OF THE EAST 248.7 FEET OF THE NW 1/4 OF THE NW 1/4 (LESS NORTH 30 FEET FOR ROAD) OF SECTION 14 TOWNSHIP 23 SOUTH RANGE 29 EAST, OF ORANGE COUNTY, FLORIDA.

PARCEL 5

THE NORTH 155 FEET OF THE WEST 128 FEET OF THE EAST 426.7 FEET OF THE NW 1/4 OF THE NW 1/4 OF SECTION 14 TOWNSHIP 23 SOUTH RANGE 29 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET THEREOF FOR ROAD RIGHT OF WAY.

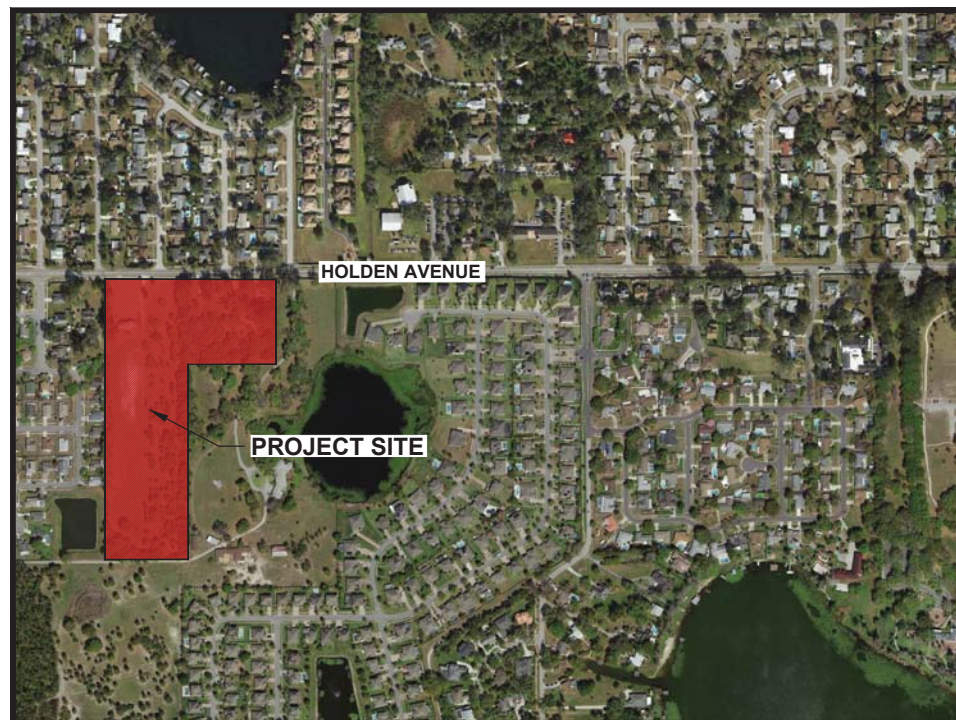
PARCEL 6

THE NORTH 380 FEET OF THE WEST 100 FEET OF THE EAST 526.7 FEET OF THE NW 1/4 OF THE NW 1/4 OF SECTION 14, TOWNSHIP 23 SOUTH, RANGE 29 EAST, ORANGE COUNTY, FLORIDA, LESS THE NORTH 30 FEET THEREOF FOR ROAD RIGHT OF WAY.

THE ABOVE DESCRIBED TRACT OF LAND LIES IN THE CITY OF EDGEWOOD, ORANGE COUNTY, FLORIDA AND CONTAINS 13.68 ACRES MORE OR LESS.

ORLANDO, FLORIDA 32839
2022-08-30

LOCATION MAP:



PROJECT TEAM

OWNER/APPLICANT
TOLL BROTHERS, INC.
2966 COMMERCE PARK DR., SUITE 100
ORLANDO, FL 32819
SMCDONALD1@TOLLBROTHERS.COM

ENVIRONMENTAL
BIO-TECH CONSULTING
3025 E. SOUTH STREET
ORLANDO, FL 32803
(407) 894-5969

CIVIL ENGINEER
AVCON, INC.
5555 E MICHIGAN ST, SUITE 200
ORLANDO, FL 32822
(407) 599-1122

GEOTECHNICAL
UNIVERSAL ENGINEERING SCIENCES
3532 MAGGIE BLVD.
ORLANDO, FL 32811
(407) 423-0504

SURVEYOR
ALLEN & COMPANY
16 EAST PLANT STREET
WINTER GARDEN, FL 34787
(407) 654 - 5355

UTILITY PROVIDERS

WATER

ORLANDO UTILITIES COMMISSION
100 W ANDERSON ST
ORLANDO, FLORIDA 32801

SEWER/WASTEWATER

ORANGE COUNTY UTILITIES
9150 CURRY FORD RD.
ORLANDO, FLORIDA 32825

AVCON PROJECT NO. 2019.0099.15

DATE 8/30/2022

REVISIONS

NO.	DATE	DESCRIPTION
△	01-13-22	CONSTRUCTION PLAN REVISIONS
△	04-22-22	OCPW RAI #1
△	05-19-22	OCU RAI #1
△	07-19-22	OCU RAI #2
△	07-19-22	CITY OF EDGEWOOD REVISION 2
△	08-01-22	OCPW RAI #2



AVCON, INC.
ENGINEERS & PLANNERS
5555 East Michigan Street, Suite 200 Orlando, FL 32822-2779
Office: (407) 599-1122 Mobile: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 387
www.avcon.com

ENGINEER OF RECORD:

Digitally signed by
Aldo E Mejias
DN: c=US,
o=AVCON INC,
dnQualifier=A0141
0C0000178F9AEE
503000FB835,
cn=Aldo E Mejias
Date: 2022.09.22
08:53:42 -04'00'

ALDO E. MEJIAS, P.E.
FL P.E. #76019

ENGINEER'S CERTIFICATION

CONSTRUCTION PLANS WERE PREPARED IN ACCORDANCE WITH THE CITY OF EDGEWOOD, ORANGE COUNTY, AND ORLANDO UTILITIES COMMISSION REGULATIONS

Sheet List Table

Sheet Number	Sheet Title
BS C-000	Cover Sheet
BS C-001	General Notes
BS C-100	Demolition & Erosion Control Plan North
BS C-101	Demolition & Erosion Control Plan South
BS C-102	Demolition & Erosion Control Notes
BS C-200	Overall Site Plan
BS C-201	Geometry & Striping Plan North
BS C-202	Geometry & Striping Plan South
BS C-203	Civil Details 1
BS C-204	Vehicle Tracking Plan
BS C-205	Street Parking Signage Plan
BS C-300	Grading Plan North
BS C-301	Grading Plan South
BS C-302	Drainage Plan North
BS C-303	Drainage Plan South
BS C-304	Grading & Drainage Details 1
BS C-305	Grading & Drainage Details 2
BS C-306	Grading Sections
BS C-400	Utility Plan North
BS C-401	Utility Plan South
BS C-402	Profile Plan 1
BS C-404	Utility Details 1
BS C-403	Profile Plan 2
BS C-405	Utility Details 2
BS C-406	Utility Details 3
BS C-407	Utility Details 4
BS C-408	Utility Details 5
BS C-409	Utility Details 6
BS C-410	Lift Station & Details Plan
BS C-411	Force Main Profiles 1
BS C-412	Force Main Profiles 2
BS C-500	Offsite Plan
BS C-501	Offsite Sections 1
BS C-502	Offsite Sections 2
BS C-503	Offsite Sections 3
BS C-504	Offsite Striping Plan

NOTES:

1. THE IMPROVEMENTS ON A COUNTY ROAD REQUIRES A LETTER OF CREDIT IN ACCORDANCE TO COUNTY CODE SEC 21-202 AS PART OF THE REQUIRED RIGHT OF WAY PERMIT

GENERAL NOTES

- 1. PER THE FEMA FLOOD INSURANCE RATE MAP (FIRM), THE SITE IS CLASSIFIED AS FLOOD ZONES X ON MAP PANEL NUMBER 12095C0410F, DATED SEPTEMBER 25, 2009.
2. THE HORIZONTAL AND VERTICAL LAYOUT OF THIS PROJECT IS DESIGNED BASED ON THE TOPOGRAPHIC SURVEY PREPARED BY ESE CONSULTANTS
THE VERTICAL DATUM FOR WHICH ALL ELEVATIONS ARE IN REFERENCE TO, UNLESS OTHERWISE NOTED, IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), BASED ON ORANGE COUNTY BENCHMARK NUMBER 'C599002', ELEVATION 105.60' AND CITY OF ORLANDO BENCHMARK 'BM 16-030', ELEVATION 104.79'

GRADING AND DRAINAGE NOTES

- 1. PRIOR TO INITIATING ANY EXCAVATION ACTIVITIES, CONTRACTOR SHALL TAKE ALL NECESSARY AND PRACTICAL MEASURES TO ENSURE THAT UNAUTHORIZED ACCESS TO THE EXCAVATION IS PREVENTED.
2. ALL GRADING AND SITE PREPARATION SHALL CONFORM TO SPECIFICATIONS CONTAINED IN THE CONSTRUCTION DOCUMENTS.
3. CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC DATA, LOCATION OF EXISTING UTILITIES AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.

PIPE TRENCH/BEDDING NOTES (AVCON, INC.)

- 1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO NINETY-EIGHT (98) PERCENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO NINETY-EIGHT (98) PERCENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. THE TOP TWENTY-FOUR (24) INCHES OF ALL UTILITY TRENCHES WITHIN VEHICULAR TRAVEL PATHS SHALL BE PLACED IN MAXIMUM OF TWELVE (12) INCH LIFTS AND SHALL BE COMPACTED TO NINETY-EIGHT (98) PERCENT OF THE MAXIMUM DENSITY.

CONTRACTOR NOTES

- 1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), CONTRACTOR FURTHER AGREES TO COMPLY WITH ALL STATE LAWS AND REGULATIONS PERTAINING TO JOB SITE SAFETY.
2. CONTRACTOR SHALL BE AWARE OF, AND FOLLOW, ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, BUILDING CODES, AND SAFETY CODES.
3. CONTRACTOR SHALL OBTAIN, FROM THE OWNER, COPIES OF ALL PERMITS ISSUED BY THE GOVERNING AUTHORITIES FOR THIS PROJECT. CONTRACTOR SHALL ABIDE BY ALL TERMS, CONDITIONS, REQUIREMENTS, AND LIMITATIONS CONTAINED WITHIN SAID PERMITS. A COPY OF ALL PERMITS SHALL BE KEPT ONSITE AND AVAILABLE FOR REVIEW AT ANY TIME.

UTILITY NOTES

- 1. THE CONSTRUCTION OF ALL ONSITE, PRIVATELY OWNED UTILITIES (WATER AND WASTEWATER), SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS FOR THE PROJECT AND ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL AND OUC GUIDELINES FOR DESIGN OF POTABLE WATER DISTRIBUTION FACILITIES IN NEW DEVELOPMENTS. THE CONSTRUCTION OF ALL OFFSITE UTILITIES, OWNED BY THE PURVEYOR, SHALL BE IN CONFORMANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH BY ORANGE COUNTY UTILITIES (OCU) AND ORLANDO UTILITIES COMMISSION (OUC) GUIDELINES.
2. A. ALL ON SITE UTILITY CONSTRUCTION TO POINT OF SERVICE CONNECTIONS SHALL BE PERFORMED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED BY THE STATE OF FLORIDA.
B. ALL ON SITE UTILITY SERVICES FROM THE WATER METER FOR EACH LOT TO THE HOME SHALL BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF FLORIDA.

FIRE

- 1. HYDRANT COLOR CODING SHALL BE PAINTED IN ACCORDANCE WITH N.F.P.A. 291.
2. THE BODY OF PUBLIC FIRE HYDRANTS SHALL BE PAINTED YELLOW IN COLOR. COLOR CODING OF THE HYDRANT BONNET AND CAPS TO ILLUSTRATE AVAILABLE FIRE FLOW AMOUNTS SHALL BE ACCOMPLISHED PER THE GUIDELINES OF NFPA 291, RECOMMENDED PRACTICES FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS.
3. FIRE PROTECTION SYSTEM MAINS ON PRIVATE PROPERTY SHALL MEET THE REQUIREMENTS AND SHALL BE INSTALLED PER NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES AND/OR NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS AS ADOPTED IN THE FLORIDA FIRE PREVENTION CODE.



AVCON, INC. ENGINEERS & PLANNERS 5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779 OFFICE: (407) 599-1122 - FAX: (407) 599-1133 CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057 www.avconinc.com

ALDO E. MEJIAS P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

GENERAL NOTES

ATTENTION:

THIS DOCUMENT CONTAINS PRIVILEGED AND PROPRIETARY INFORMATION, ALL OF WHICH IS EXPRESSLY PROVIDED BY AVCON, INC., FOR USE BY THE INTENDED RECIPIENT, AND FOR A SPECIFIC PURPOSE. WITHOUT THE EXPRESS WRITTEN CONSENT OF AVCON, INC. ANY DISTRIBUTION, REPRODUCTION OR OTHER USE OF THIS DOCUMENT, IN WHOLE OR IN PART, IS STRICTLY PROHIBITED.

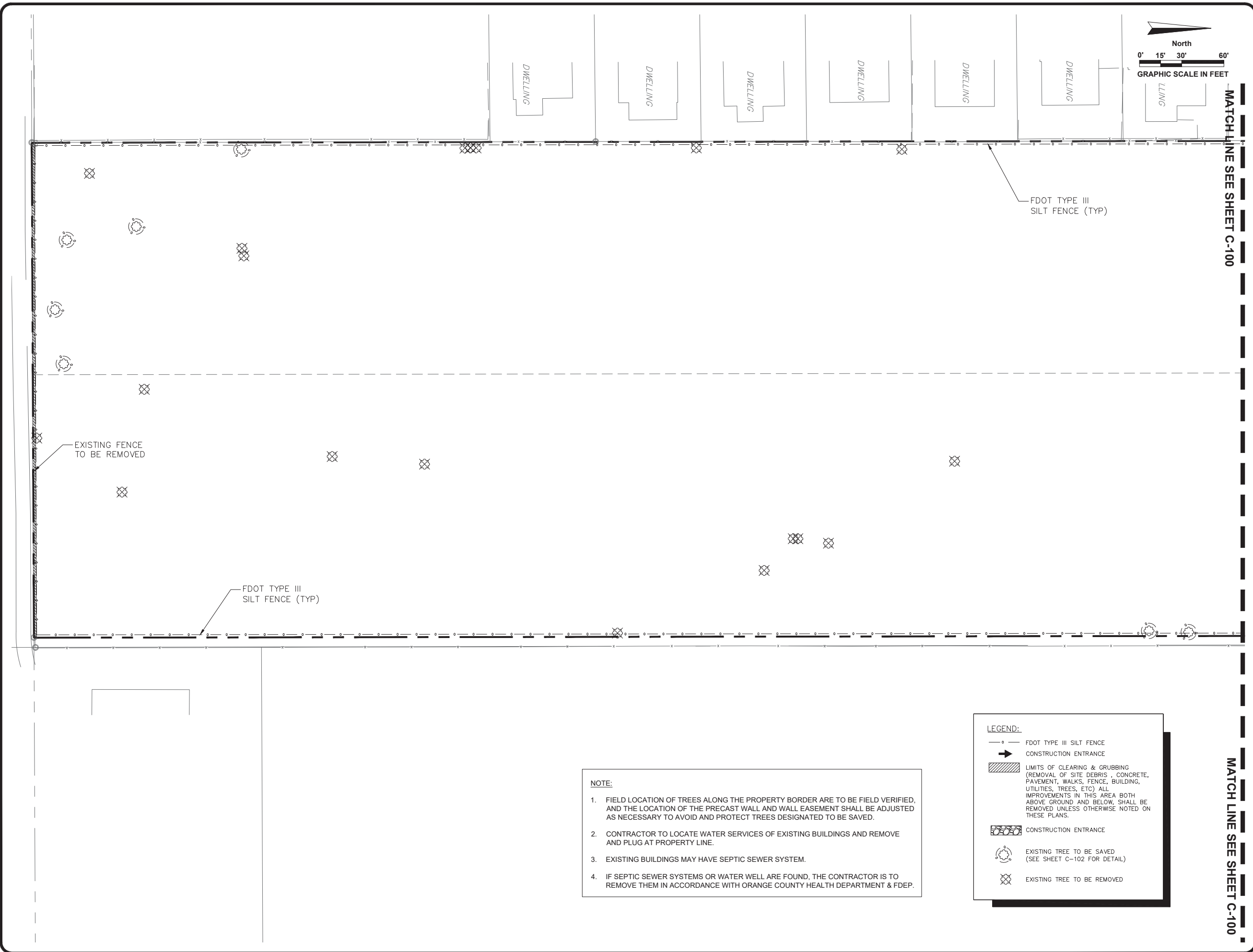
SCALE:

Table with 4 columns: NO., DATE, BY, DESCRIPTION. Row 1: 1, 01-13-2022, BRE, CONST PLAN REVISIONS

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER C-001



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HAVEN OAKS

CONSTRUCTION PLANS

DEMOLITION & EROSION CONTROL PLAN SOUTH

ATTENTION:

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SCALE:

REVISIONS:

NO.	DATE	BY	DESCRIPTION

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-101

- NOTE:**
1. FIELD LOCATION OF TREES ALONG THE PROPERTY BORDER ARE TO BE FIELD VERIFIED, AND THE LOCATION OF THE PRECAST WALL AND WALL EASEMENT SHALL BE ADJUSTED AS NECESSARY TO AVOID AND PROTECT TREES DESIGNATED TO BE SAVED.
 2. CONTRACTOR TO LOCATE WATER SERVICES OF EXISTING BUILDINGS AND REMOVE AND PLUG AT PROPERTY LINE.
 3. EXISTING BUILDINGS MAY HAVE SEPTIC SEWER SYSTEM.
 4. IF SEPTIC SEWER SYSTEMS OR WATER WELL ARE FOUND, THE CONTRACTOR IS TO REMOVE THEM IN ACCORDANCE WITH ORANGE COUNTY HEALTH DEPARTMENT & FDEP.

LEGEND:

- FDOT TYPE III SILT FENCE
- ➔ CONSTRUCTION ENTRANCE
- ▨ LIMITS OF CLEARING & GRUBBING (REMOVAL OF SITE DEBRIS, CONCRETE, PAVEMENT, WALKS, FENCE, BUILDING, UTILITIES, TREES, ETC) ALL IMPROVEMENTS IN THIS AREA BOTH ABOVE GROUND AND BELOW, SHALL BE REMOVED UNLESS OTHERWISE NOTED ON THESE PLANS.
- ▨ CONSTRUCTION ENTRANCE
- ⊗ EXISTING TREE TO BE SAVED (SEE SHEET C-102 FOR DETAIL)
- ⊗ EXISTING TREE TO BE REMOVED

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GENERAL EROSION AND SEDIMENT CONTROL NOTES:

AN EROSION CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE CITY OF EDGEWOOD PRIOR TO SCHEDULING OF PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENTS BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE SYNTHETIC HAY BALES, TEMPORARY GRASSING ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.

- STOCKPILING MATERIAL:
NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DRAIN DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
- EXPOSED MATERIAL:
THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING, OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 40 ACRES SO LONG AS THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- INLET PROTECTION:
THE CONSTRUCTION OF SWALES AND THE STORMWATER COLLECTION SYSTEM SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- TEMPORARY SEEDING:
AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN SEVEN DAYS, SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- TEMPORARY GRASSING:
SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN 4 ABOVE, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDDED AREA TO A DEPTH OF FOUR INCHES.
- TEMPORARY GRASSING:
THE SEEDDED OR SEEDDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR COVER.
- TEMPORARY RE-GRASSING:
IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% COVERAGE, AREAS WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.
- MAINTENANCE:
ALL FEATURES OF THE PROJECT WILL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
- DUST ABATEMENT:
DUST SHALL BE CONTROLLED WITH USE OF WATER AND CALCIUM CHLORIDE.
STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

EROSION CONTROL NOTES:

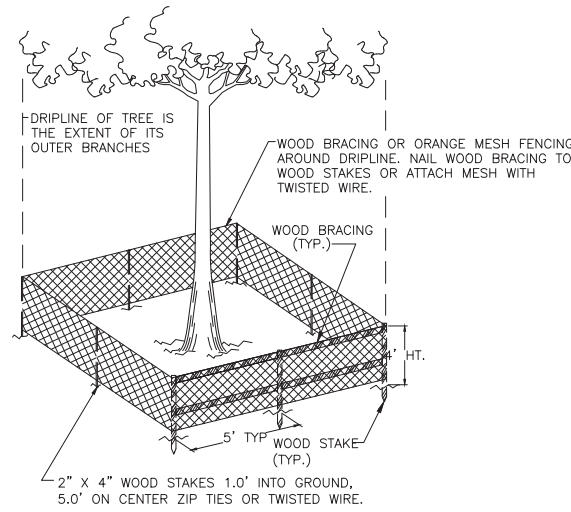
- THE CONSTRUCTION OF SWALES AND THE STORM SEWER SYSTEM SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS.
- INLET OPENINGS SHALL BE COVERED WITH FILTER FABRIC OR SURROUNDED BY SYNTHETIC HAY BALES.
- THE CONTRACTOR SHALL MINIMIZE THE AERIAL EXTENT OF EXPOSED EARTH AT ONE TIME DURING CONSTRUCTION AND UTILIZE WATERING TRUCKS TO WET THE EARTH DURING DRY MONTHS TO MINIMIZE EROSION DUE TO WIND.
- SILT FENCE MUST REMAIN IN PLACE AND BE MAINTAINED IN GOOD CONDITION AT ALL LOCATIONS SHOWN UNTIL CONSTRUCTION IS COMPLETE, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.
- THE EROSION CONTROL MEASURES SHOWN HEREON ARE INTENDED AS MINIMUM STANDARDS. ANY EROSION CONTROL REQUIRED BEYOND THAT SPECIFIED SHALL BE CONSIDERED AS INCLUDED WITHIN THIS CONTRACT.
- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE LOCAL WATER MANAGEMENT DISTRICT AND FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION STANDARDS.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
- SEDIMENT MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
- DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
- ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES, DUE TO CONSTRUCTION SHALL BE PROMPTLY REMOVED AND NOT ALLOWED TO REMAIN ON THE ROADWAY OVERNIGHT BY THE CONTRACTOR.
- ALL PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, AND ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS AFTER FINAL GRADING. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
 - PREPARING FDEP NOTICE OF INTENT APPLICATIONS, (NOI & NOT)
 - FDEP NOTICE OF INTENT APPLICATION FEES.
 - PREPARING THE FDEP STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
 - SUBMITTAL OF THE FDEP NOTICE OF INTENTS APPLICATIONS (NOI & NOT)
- THE SUBMITTAL OF THE FDEP NOI MUST BE DONE PRIOR TO COMMENCING WORK FOR THIS PROJECT.
- PRIOR TO EARTH WORK OR CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES TO THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL OBTAIN WATER MANAGEMENT DISTRICT PERMITS PRIOR TO COMMENCING WORK FOR THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DOWATERING PERMITS.
- UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS, AS A MINIMUM, SHALL BE SEEDDED AND MULCHED AND COMPACTED EQUIVALENT TO THAT OF NATIVE SURROUNDING EARTH.

SEDIMENT CONTROL NOTES:

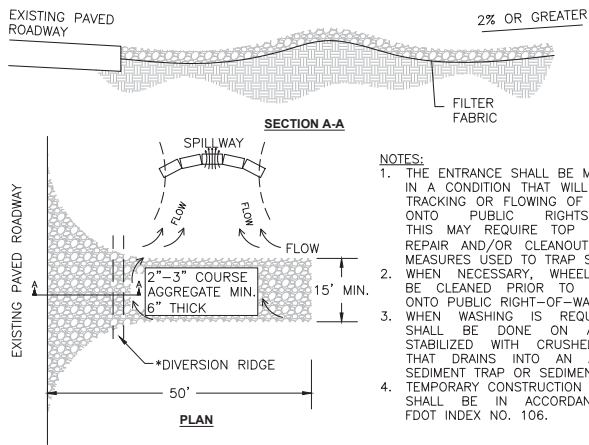
- ALL SEDIMENT CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OR EXISTING SURFACE MATERIAL ON THE BALANCE OF THE SITE.
- PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES SHALL BE PROVIDED TO INSURE INTENDED PURPOSE IS ACCOMPLISHED.
- ALL TEMPORARY EARTH BERMS AND DIVERSIONS SHALL BE MACHINE COMPACTED, SEEDDED, AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING.
- CONSTRUCTED BERMS, DIKES, ETC., SHALL BE COMPACTED BY SEVERAL PASSES WITH CONSTRUCTION EQUIPMENT (BULLDOZER, BACKHOE, OR OTHER HEAVY EQUIPMENT, OR BY USE OF A SUITABLE ROLLER).
- AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
- IN PLACE SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE MET.

DEMOLITION NOTES:

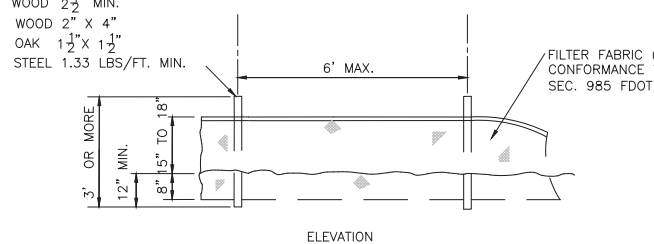
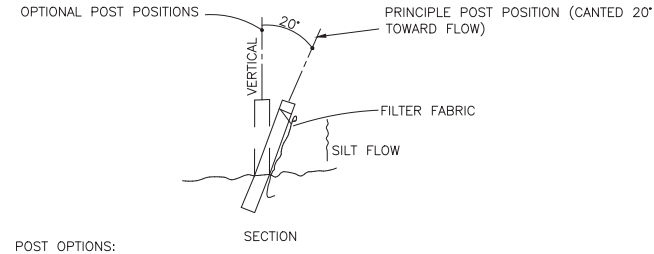
- THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCOMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
- THIS DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY.
- FLORIDA LAW (F.S. 558) UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT MANDATES THAT EXCAVATORS / CONTRACTORS SHALL CONTACT SUNSHINE 811 (FKA: SUNSHINE STATE ONE-CALL OF FLORIDA) BY CALLING 800-432-4770 OR 811 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO 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 DEBRIS AND WASTE MATERIALS GENERATED BY DEMOLITION OR SUBSEQUENT CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT AN APPROVED DISPOSAL FACILITY. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEMOLITION, CONSTRUCTION WORK AND HAULING WASTE MATERIAL. ALL ASSOCIATED COSTS AND PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASPHALT RESURFACING TO ALL EXISTING ROADS WHICH ARE SAW-CUT OR DAMAGED DURING CONSTRUCTION. ALL REPAIRS TO BE MADE IN ACCORDANCE WITH CITY OF EDGEWOOD REQUIREMENTS.
- ANY ENCOUNTERED CONTAMINATED MATERIALS SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- THE CONTRACTOR IS ADVISED THAT UNCHARTED UTILITIES MAY BE FOUND TO EXIST WITHIN THE CONSTRUCTION AREA AND THAT CONSTRUCTION OPERATIONS SHOULD BE CONDUCTED WITH CAUTION.
- ANY MISCELLANEOUS GARBAGE, YARD WASTE AND CONSTRUCTION DEBRIS PRESENTLY ON-SITE DUE TO ILLEGAL DUMPING SHALL BE DISPOSED OF OFF-SITE ACCORDING TO THE SOLID WASTE AND HAZARDOUS WASTE REGULATIONS. USE CAUTION IF ANY HAZARDOUS WASTE IS PRESENT.
- EXISTING IRRIGATION SYSTEMS ADJACENT TO CONSTRUCTION ACTIVITIES SHALL BE PROTECTED. ANY IRRIGATION SYSTEM COMPONENTS REMOVED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED AS QUICKLY AS POSSIBLE.
- ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
- CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY OWNER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.
- CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
- CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
- ALL ASPHALT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS.
- EXISTING SITE FEATURES LOCATED WITHIN THE AREA OF DEMOLITION IDENTIFIED TO REMAIN SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION; FEATURES AFFECTED BY GRADING SHALL BE ADJUSTED TO MEET DESIGN GRADES.
- SEE EROSION CONTROL PLAN FOR REMAINING INLET PROTECTION AND EROSION PREVENTION.
- AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF ABUTTING ROADS SHALL BE BACK FILLED IN ACCORDANCE WITH FOOT STANDARDS OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTOR EXPENSE.
- THE CONTRACTOR SHALL ENSURE THAT THE MAINTENANCE OF TRAFFIC FOR THE PROJECT CONFORMS WITH FOOT STANDARDS FOR WORK BEING PERFORMED. ACCESS TO ADJACENT PROPERTIES TO BE MAINTAINED DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE DEMOLITION WITH CONSTRUCTION OF IMPROVEMENTS WITHIN THE ROAD RIGHT-OF-WAY TO MINIMIZE TRAFFIC DISRUPTION.
- CONTRACTOR TO COORDINATE WITH ALL UTILITY OWNERS PRIOR TO REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES. ALL EXISTING UTILITY CONNECTIONS TO BE DISCONNECTED AND REMOVED TO SERVICE POINT OR METER UNLESS NOTED TO REMAIN. CONTRACTOR IS RESPONSIBLE IN MAINTAINING AND PROTECTING UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT HIS/HERS EXPENSE.
- EXISTING SURVEY MONUMENTATION SHALL NOT BE DISTURBED; ANY DISTURBED OR REMOVED MONUMENTATION SHALL BE REPLACED BY A REGISTERED SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- CLEAR AND GRUB ALL DISTURBED AREAS PRIOR TO CONSTRUCTION.



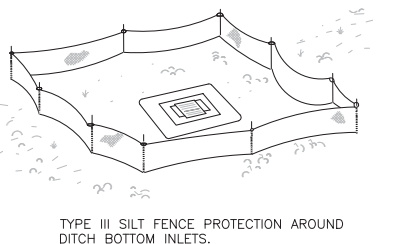
TREE PROTECTION BARRICADE DETAIL
N.T.S.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
*DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%

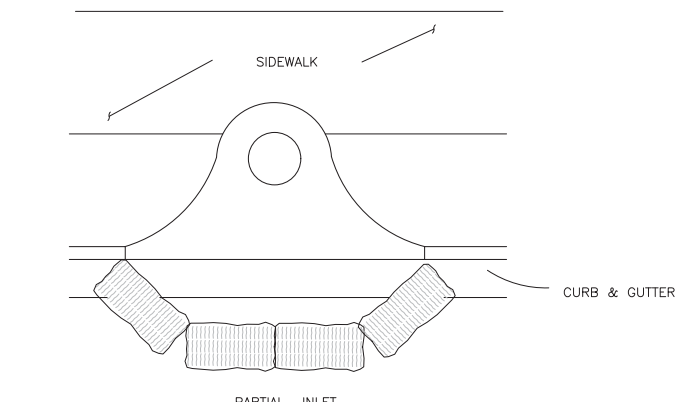
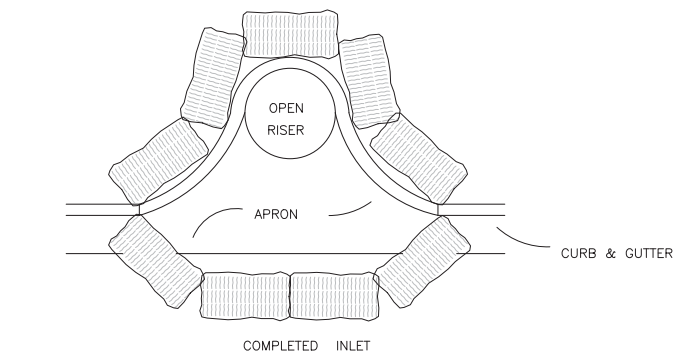
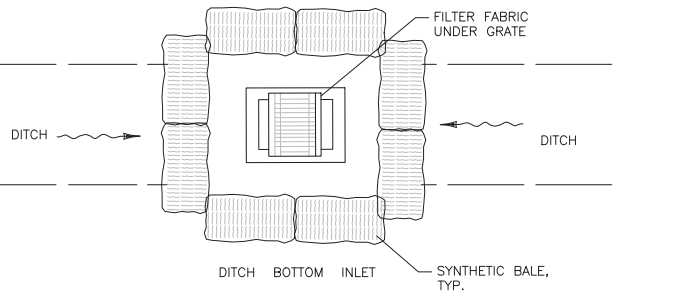


TYPE III SILT FENCE
N.T.S.



NOTE: 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 UNPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS
N.T.S.



NOTE: ANCHOR SYNTHETIC BALES WITH 2 - 2\"/>

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
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CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

DEMOLITION & EROSION CONTROL NOTES

ATTENTION:
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SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	01-13-2022	BRE	CONST PLAN REVISIONS

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-102

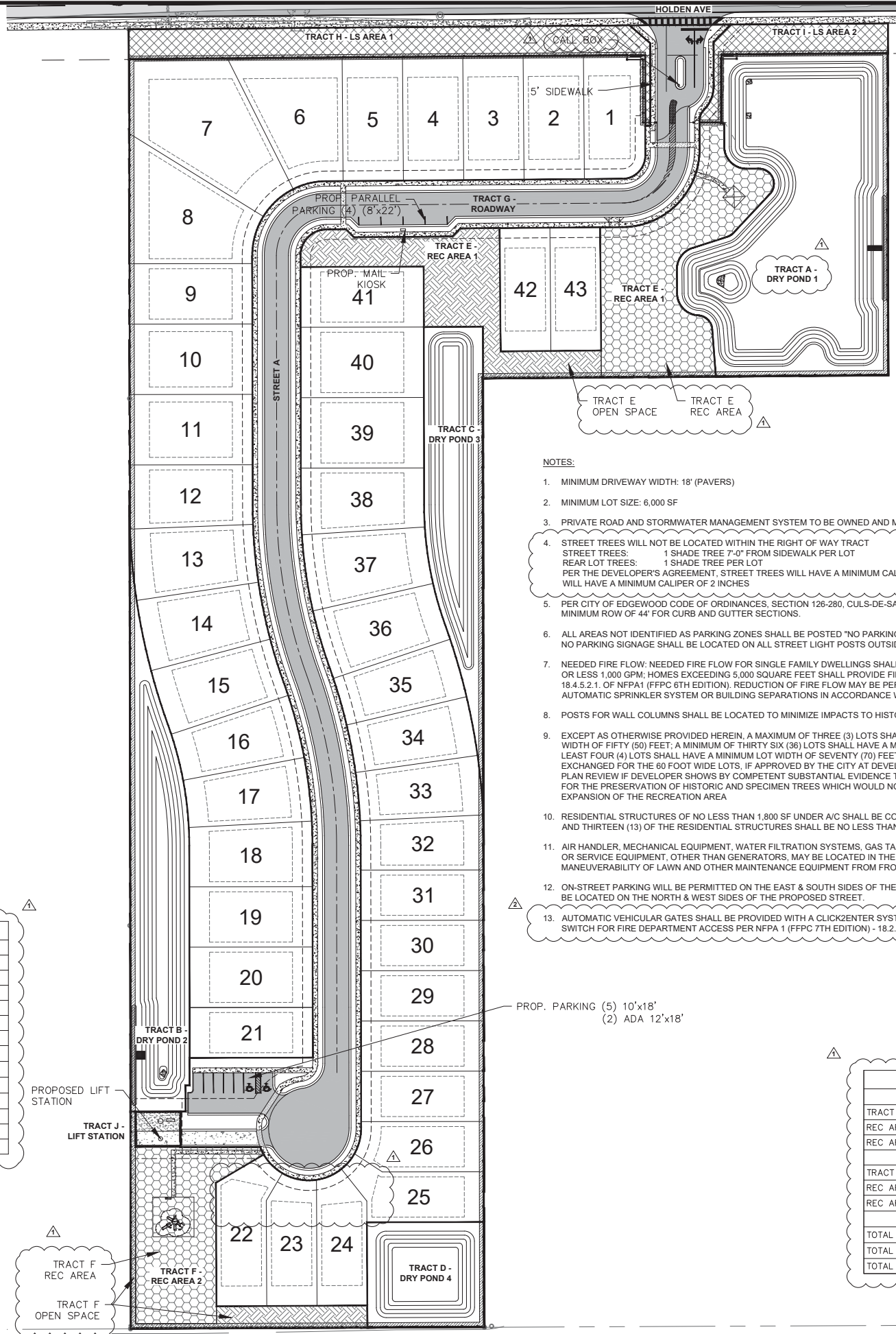
GENERAL SITE DATA	
PARCEL ID#	14-23-29-0000-00-004 14-23-29-0000-00-005 14-23-29-0000-00-062 14-23-29-0000-00-064 14-23-29-0000-00-063 & 14-23-29-0000-00-042
ZONING	PD
EXISTING USE	VACANT / SINGLE FAMILY HOME
JURISDICTION	CITY OF EDGEWOOD
FUTURE LAND USE	LOW DENSITY RESIDENTIAL (LDR)
DEVELOPABLE AREA	13.68 ACRES
LOT DENSITY	3.14 DU/AC (MAX 4 DU/AC)
PROPOSED DEVELOPMENT (SINGLE FAMILY)	43 LOTS (SINGLE PHASE)
MINIMUM LIVING AREA	1,800 SF MINIMUM, 13 OF THE RESIDENTIAL STRUCTURES SHALL BE NO LESS THAN 2200 SF
NET UNITS PER ACRE	3.14 UNITS PER ACRE
MIN. LOT SIZE	6,000 SF
MIN. LOT WIDTH	50' (FRONT SETBACK LINE)
MAXIMUM BUILDING HEIGHT	35' TWO STORY
MAXIMUM IMPERVIOUS LOT COVERAGE	70% FOR 50' AND 60' LOTS, 63% FOR 70' LOTS
OPEN SPACE REQUIREMENT	40% (46.63% PROVIDED)
RECREATION AREA (5% OF THE TOTAL AREA)	0.775 AC REQUIRED, 0.821 PROVIDED
PROJECTED STUDENT POPULATION (43 DWELLING UNITS X 0.431 STUDENTS)	19 STUDENTS
ITE AVERAGE DAILY TRIPS (43 LOTS X 9.52 ADT)	409.4 ADT (ITE CODE 210)
OUC POTABLE WATER SERVICE (43 LOTS X 275 GPD)	11,825 GPD (8.21 GPM)
FIRE PROTECTION (ORANGE COUNTY FIRE & RESCUE)	1000 GPM
OCU SANITARY SEWER SERVICE (43 LOTS X 300 GPD)	12,900 GPD (8.96 GPM)
STORMWATER	STORMWATER FACILITY ON SITE
PHASING SCHEDULE	PROJECT TO BE CONSTRUCTED IN ONE PHASE
MODEL HOMES	5 ALLOWED

OCPS STUDENT GENERATION RATES	
ELEMENTARY	0.196
MIDDLE	0.100
HIGH	0.134
TOTAL	0.431

SETBACKS	
FRONT LOT	20' HOUSE, 23' GARAGE, 15' PORCH 35' FOR LOT 7 LOTS 22-25 PER SECTION 126-168(B)
SIDE LOT	5' for 50' & 60' lots - 7.5' for 70' lots
REAR LOT	20' BUILDING, 5' SCREEN ENCLOSURE*
URBAN MINOR ARTERIAL - HOLDEN AVENUE	60' FROM CENTERLINE
CORNER LOT SIDE STREET SETBACK	15'-0"
POOLS*	5' (50' & 60' LOTS) OR 7.5' (70' LOTS) INTERIOR SIDE, 10' SIDE STREET, 5' REAR
POOL ENCLOSURES*	5' (50' & 60' LOTS) OR 7.5' (70' LOTS) INTERIOR SIDE, 10' SIDE STREET, 5' REAR

*THE LISTED SETBACK FOR POOLS, POOL/SCREEN ENCLOSURE, AS WELL AS OTHER ACCESSORY STRUCTURES, CAN ONLY BE APPLIED TO THE LOTS ADJACENT TO HOLDEN AVENUE IF APPROVED BY ORANGE COUNTY TRAFFIC ENGINEERING / TRANSPORTATION PLANNING

TRACT AREAS			
TRACT	AREA	PERCENTAGE	OWNERSHIP
TRACT A - DRY POND 1	53,803 SF - 1.235 AC	9.03%	HOA
TRACT B - DRY POND 2	24,481 SF - 0.562 AC	4.11%	HOA
TRACT C - DRY POND 3	19,436 SF - 0.446 AC	3.26%	HOA
TRACT D - DRY POND 4	12,230 SF - 0.281 AC	2.05%	HOA
TRACT E - RECREATION AREA 1	35,294 SF - 0.810 AC	5.92%	HOA
TRACT F - RECREATION AREA 2	19,876 SF - 0.456 AC	3.33%	HOA
TRACT G - ROADWAY	86,956 SF - 1.996 AC	14.59%	HOA
TRACT H - LANDSCAPE AREA 1	15,723 SF - 0.361 AC	2.64%	HOA
TRACT I - LANDSCAPE AREA 2	5,831 SF - 0.134 AC	0.98%	HOA
TRACT J - LIFT STATION TRACT	1,575 SF - 0.036 AC	0.26%	OCU
TOTAL PROPERTY	595,996 SF - 13.68 AC	100.00%	-
TOTAL POND TRACT AREAS	109,950 SF - 2.524 AC	18.45%	-
TOTAL RECREATION TRACT AREAS	55,170 SF - 1.267 AC	9.26%	-



CITY OF EDGEWOOD
Zoning Plans Review
 By Brett Sollazzo Date 9/26/2022
 Approved Rejected
 Hold on Certificate of Occupancy?
 Yes No
CITY OF EDGEWOOD ZONING HOLD

- NOTES:
- MINIMUM DRIVEWAY WIDTH: 18' (PAVERS)
 - MINIMUM LOT SIZE: 6,000 SF
 - PRIVATE ROAD AND STORMWATER MANAGEMENT SYSTEM TO BE OWNED AND MAINTAINED BY THE HOA
 - STREET TREES WILL NOT BE LOCATED WITHIN THE RIGHT OF WAY TRACT STREET TREES: 1 SHADE TREE 7'-0" FROM SIDEWALK PER LOT REAR LOT TREES: 1 SHADE TREE PER LOT PER THE DEVELOPER'S AGREEMENT, STREET TREES WILL HAVE A MINIMUM CALIPER OF 3 INCHES, AND REAR LOT TREES WILL HAVE A MINIMUM CALIPER OF 2 INCHES
 - PER CITY OF EDGEWOOD CODE OF ORDINANCES, SECTION 126-280, CULS-DE-SAC REQUIRES A MINIMUM RADIUS OF 34' AND A MINIMUM ROW OF 44' FOR CURB AND GUTTER SECTIONS.
 - ALL AREAS NOT IDENTIFIED AS PARKING ZONES SHALL BE POSTED "NO PARKING" PER 18.2.3.5.1 NFPA 1 (FFPC 6TH EDITION). NO PARKING SIGNAGE SHALL BE LOCATED ON ALL STREET LIGHT POSTS OUTSIDE OF THE SPECIFIED PARKING ZONES.
 - NEEDED FIRE FLOW: NEEDED FIRE FLOW FOR SINGLE FAMILY DWELLINGS SHALL BE AS FOLLOWS: HOMES 5,000 SQUARE FEET OR LESS 1,000 GPM; HOMES EXCEEDING 5,000 SQUARE FEET SHALL PROVIDE FIRE FLOW IN ACCORDANCE WITH TABLE 18.4.5.2.1 OF NFPA1 (FFPC 6TH EDITION). REDUCTION OF FIRE FLOW MAY BE PERMITTED IF DWELLING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM OR BUILDING SEPARATIONS IN ACCORDANCE WITH TABLE 14.4.5.1.4 (FFPC 6TH EDITION).
 - POSTS FOR WALL COLUMNS SHALL BE LOCATED TO MINIMIZE IMPACTS TO HISTORIC TREE ROOTS.
 - EXCEPT AS OTHERWISE PROVIDED HEREIN, A MAXIMUM OF THREE (3) LOTS SHALL BE ALLOWED TO HAVE A MINIMUM LOT WIDTH OF FIFTY (50) FEET; A MINIMUM OF THIRTY SIX (36) LOTS SHALL HAVE A MINIMUM LOT WIDTH OF SIXTY (60) FEET; AT LEAST FOUR (4) LOTS SHALL HAVE A MINIMUM LOT WIDTH OF SEVENTY (70) FEET. ADDITIONAL FIFTY-FOOT WIDE LOTS MAY BE EXCHANGED FOR THE 60 FOOT WIDE LOTS, IF APPROVED BY THE CITY AT DEVELOPMENT PLAN/PRELIMINARY SUBDIVISION PLAN REVIEW IF DEVELOPER SHOWS BY COMPETENT SUBSTANTIAL EVIDENCE THAT THE REDUCTION OF LOT SIZE ALLOWS FOR THE PRESERVATION OF HISTORIC AND SPECIMEN TREES WHICH WOULD NOT OTHERWISE HAVE BEEN PRESERVED OR EXPANSION OF THE RECREATION AREA
 - RESIDENTIAL STRUCTURES OF NO LESS THAN 1,800 SF UNDER A/C SHALL BE CONSTRUCTED ON THE SUBJECT PROPERTY AND THIRTEEN (13) OF THE RESIDENTIAL STRUCTURES SHALL BE NO LESS THAN 2,200 SQUARE FEET UNDER A/C
 - AIR HANDLER, MECHANICAL EQUIPMENT, WATER FILTRATION SYSTEMS, GAS TANKS, PROPANE TANKS, AND OTHER UTILITY OR SERVICE EQUIPMENT, OTHER THAN GENERATORS, MAY BE LOCATED IN THE SIDE YARD SETBACKS PROVIDED THE MANEUVERABILITY OF LAWN AND OTHER MAINTENANCE EQUIPMENT FROM FRONT YARD TO REAR YARD IS MAINTAINED
 - ON-STREET PARKING WILL BE PERMITTED ON THE EAST & SOUTH SIDES OF THE PROPOSED STREET 'A'. FIRE HYDRANTS WILL BE LOCATED ON THE NORTH & WEST SIDES OF THE PROPOSED STREET.
 - AUTOMATIC VEHICULAR GATES SHALL BE PROVIDED WITH A CLICKCENTER SYSTEM WITH BATTERY BACK-UP AND KNOX KEY SWITCH FOR FIRE DEPARTMENT ACCESS PER NFPA 1 (FFPC 7TH EDITION) - 18.2.2.2

RECREATION AREAS		
TRACT	AREA (SF)	AREA (AC)
TRACT E - RECREATION AREA 1	35,294 SF	0.810 AC
REC AREA 1 - OPEN SPACE	14,607 SF	0.335 AC
REC AREA 1 - RECREATION	20,687 SF	0.475 AC
TRACT F - RECREATION AREA 2	19,876 SF	0.456 AC
REC AREA 2 - OPEN SPACE	4,799 SF	0.110 AC
REC AREA 2 - RECREATION	15,077 SF	0.346 AC
TOTAL REC TRACT AREAS	55,170 SF	1.267 AC
TOTAL REC - OPEN SPACE	19,406 SF	0.446 AC
TOTAL REC - RECREATION	35,764 SF	0.821 AC



ALDO E. MEJIAS
 P.E. #76019

HAVEN OAKS
 CONSTRUCTION PLANS
 OVERALL SITE PLAN

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SCALE:			
REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	01-13-2022	BRE	CONST PLAN REVISIONS
2	04-22-2022	BRE	OCPW RAI #1

DESIGNED BY: RVB
 DRAWN BY: BRE
 CHECKED BY: RVB
 APPROVED BY: RVB
 DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-200

CITY OF EDGEWOOD

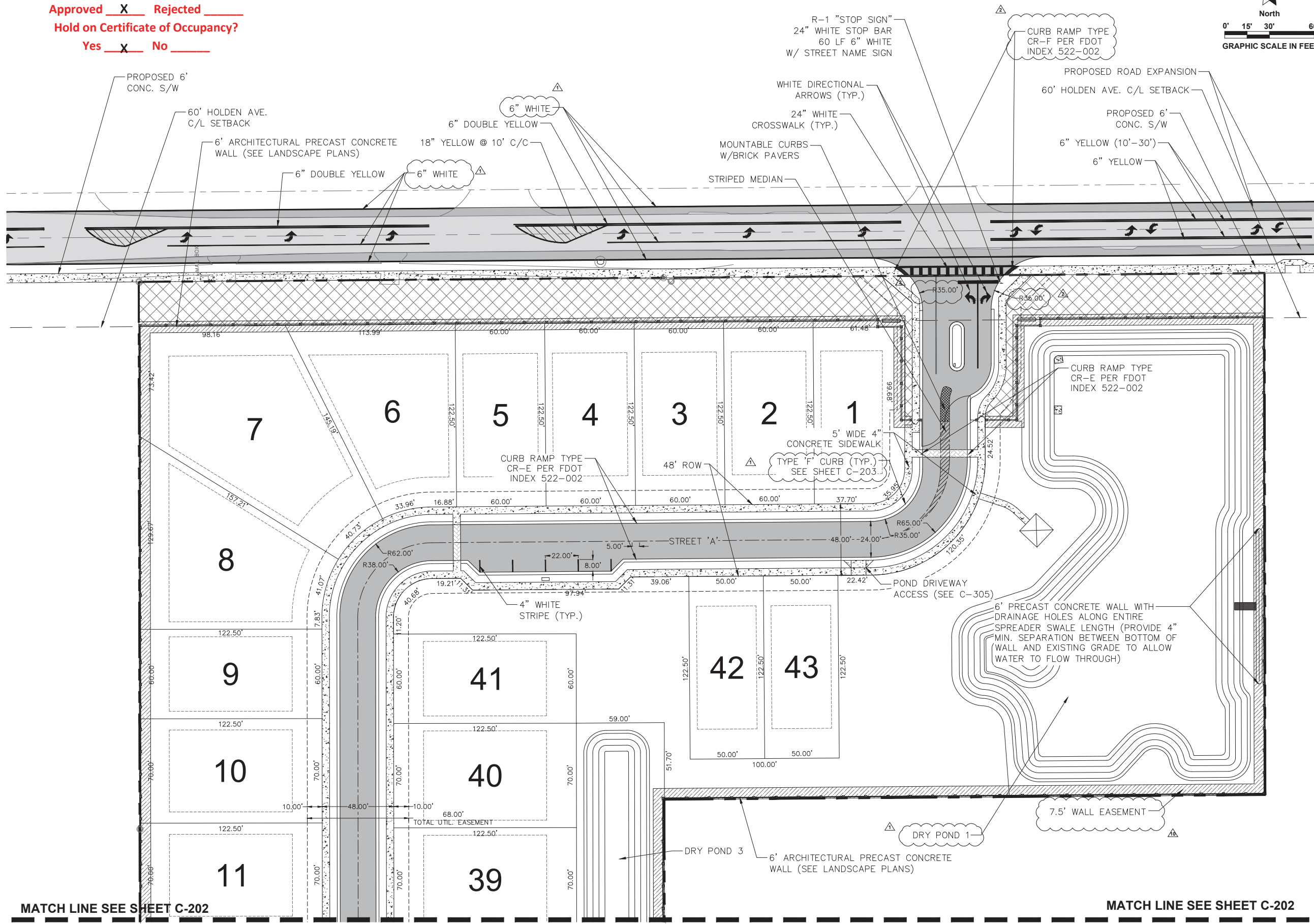
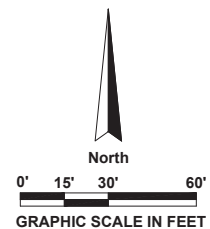
Zoning Plans Review

By **Brett Sollazzo** Date **11/21/2022**

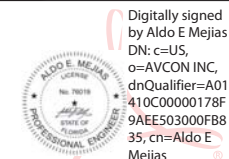
Approved Rejected _____

Hold on Certificate of Occupancy?

Yes No _____



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com



Digitally signed
by Aldo E Mejias
DN: c=US,
o=AVCON INC,
dnQualifier=A01
410C0000178F
9AE50300FB8
35, cn=Aldo E
Mejias
Date: 2022.11.17
15:29:19 -05'00'
ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

GEOMETRY & STRIPING
PLAN NORTH

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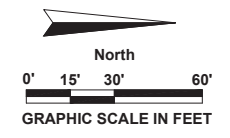
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NO.	DATE	BY	DESCRIPTION
△	01-13-2022	BRE	CONST PLAN REVISIONS
△	04-22-2022	BRE	OCPW RAI #1
△	11-17-2022	BRE	WALL EASEMENT

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 11-17-2022

AVCON PROJECT No. 2019.0099.15

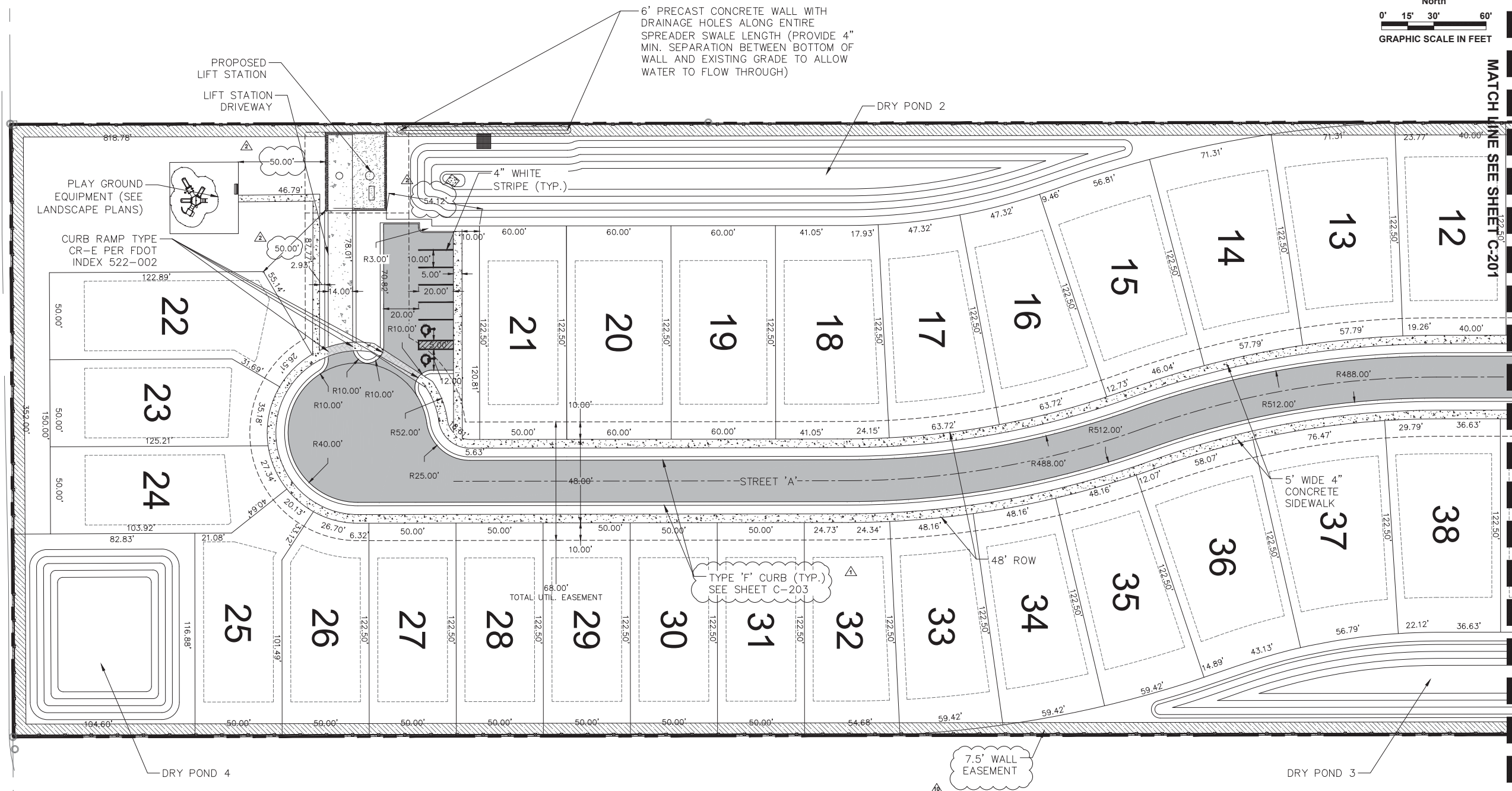
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C-201

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Brett Sollazzo



MATCH LINE SEE SHEET C-201

MATCH LINE SEE SHEET C-201



ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

GEOMETRY & STRIPING
PLAN SOUTH

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3	11-17-2022	BRE	WALL EASEMENT

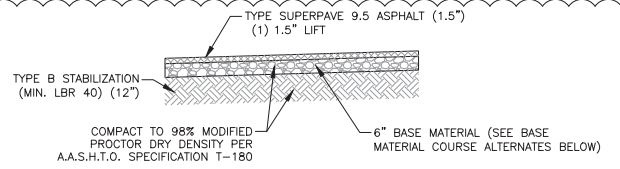
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DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 11-17-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-202

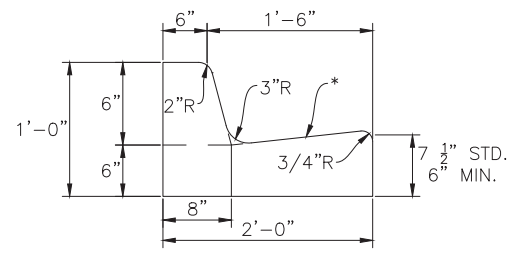
CITY OF EDGEWOOD
Zoning Plans Review
By Brett Sollazzo Date 11/21/2022
Approved Rejected
Hold on Certificate of Occupancy?
Yes No

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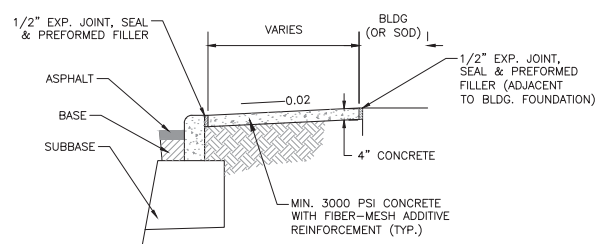
- BASE COURSE ALTERNATE:**
1. CRUSHED CONCRETE MEETING THE GRADATION REQUIREMENTS OF GRADED AGGREGATE AS SPECIFIED IN FDOT SPEC SECTION 204, LBR 100.
 2. LIMESTONE MEETING THE REQUIREMENTS AS SPECIFIED IN FDOT SPEC SECTION 200; LBR 100.
 3. ANY PAVEMENT LOCATED WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL HAVE SOIL CEMENT AS ITS BASE COURSE. (FOR HOLDEN AVENUE EXPANSION ONLY)
 4. CONCRETE FINES ARE NOT ACCEPTABLE.
 5. ALL MATERIALS MUST BE APPROVED BY THE ENGINEER PRIOR TO ORDERING.

REGULAR DUTY ASPHALT PAVEMENT SECTION
N.T.S.

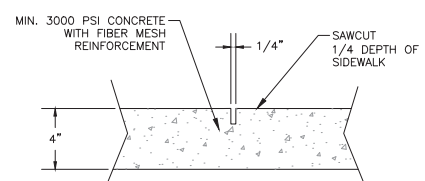


*NOTE: WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT THE THICKNESS OF THE LIP SHALL BE 6\", UNLESS OTHERWISE SHOWN ON PLANS.

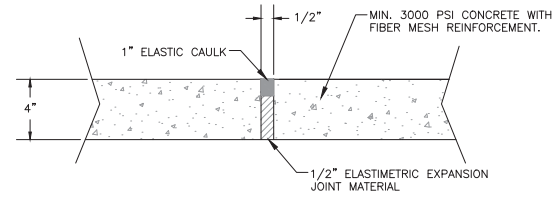
TYPE F CURB
N.T.S.



SIDEWALK CURB INTERFACE DETAIL
N.T.S.

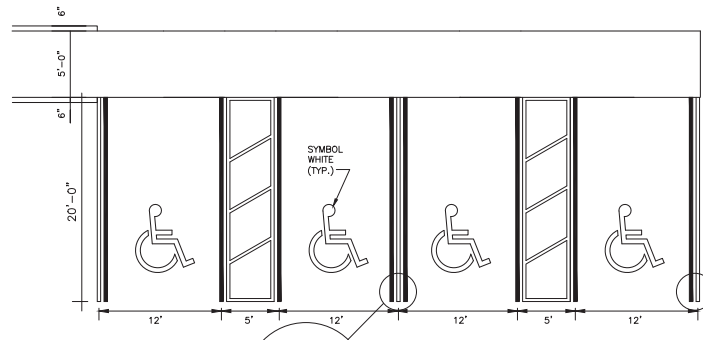


CONTRACTION JOINT DETAIL
N.T.S.

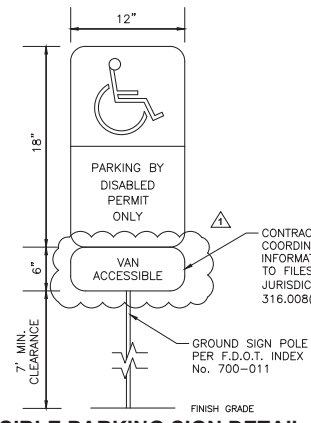


EXPANSION JOINT DETAIL
N.T.S.

ALL SIDEWALKS SHALL HAVE A FULL 1/2\"/>

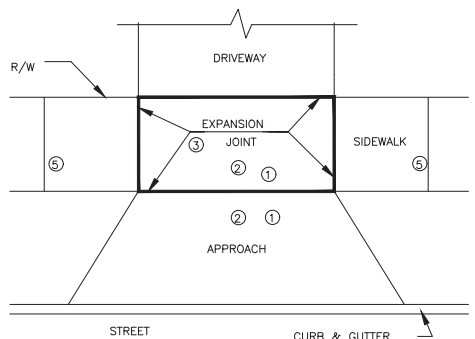


TYPICAL ACCESSIBLE STRIPING AND RAMP DETAIL
N.T.S.



ACCESSIBLE PARKING SIGN DETAIL
N.T.S.

- NOTES:**
1. TOP PORTION OF FTP 25 & 26 SHALL HAVE A REFLECTIVE SYMBOL AND N.T.S. BORDER
 2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER
 3. FTP 25 & 26 MAY BE FABRICATED ON ONE PANEL OR TWO.
 4. FTP 25 MAY BE SUBSTITUTED FOR THE FTP 26 IN AREAS WHERE SPACE IS LIMITED.
 5. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT.



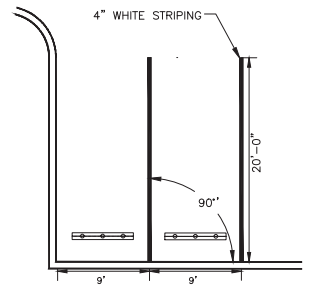
- NOTES:**
- 1- CONCRETE TO BE 3000 PSI
 - 2- APPROACH & SIDEWALK IN DRIVE TO BE 6\"/>
 - 3- 1 x 4 USED AT EXPANSION JOINTS TO BE FIBER BOARD.
 - 4- ALL WOOD STAKES USED IN FORM WORK TO HAVE 2\"/>
 - 5- SIDEWALK TO BE JOINTED AT INCREMENTS TO EQUAL SIDEWALK WIDTH. NOT REQUIRED IN DRIVE.
 - 6- NO BRICKS OR BRICK PAVERS ARE ALLOWED WITHIN CITY R.O.W.

DRIVEWAY APPROACH DISCLAIMER
THE CITY ALLOWS THE USE OF NON-STANDARD OR ALTERNATIVE MATERIALS IN THE RIGHT-OF-WAY FOR THE DRIVEWAY APPROACH RAMP. HOWEVER, SHOULD THE CITY BE REQUIRED TO PERFORM A MAINTENANCE OPERATION ON OR REPAIR OF UNDERGROUND FACILITIES THAT CAUSES THE NON-STANDARD OR ALTERNATIVE MATERIAL DRIVEWAY TO BE REMOVED, THE CITY WILL AS BEST AS POSSIBLE REMOVE THE NON-STANDARD OR ALTERNATIVE MATERIALS AND SET THEM ASIDE. THE CITY WILL NOT BE RESPONSIBLE FOR RE-INSTALLING THE NON-STANDARD OR ALTERNATIVE MATERIALS FOR THE DRIVEWAY APPROACH RAMP. THE REINSTALLATION COST FOR THE NON-STANDARD OR ALTERNATIVE MATERIALS DRIVEWAY APPROACH RAMP WILL BE THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.

DRIVEWAY APPROACHES

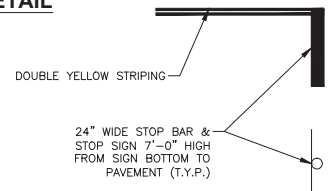


NO PARKING SIGNAGE

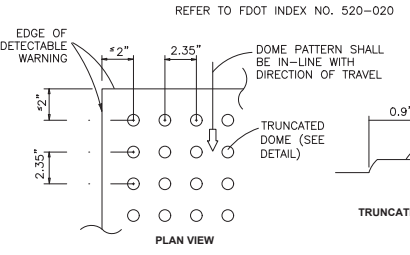


TYPICAL PARKING STALL STRIPING DETAIL
N.T.S.

NOTE:
1. EACH SUCH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE GRADE SIGN.

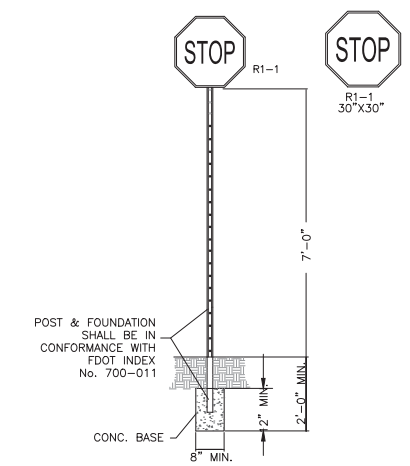


STOP SIGN & STOP BAR DETAIL
N.T.S.

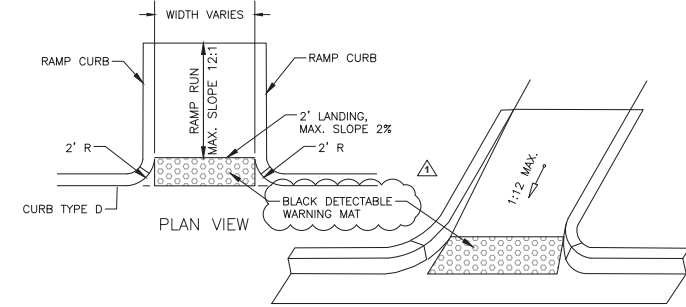


CURB RAMP DETECTABLE WARNING SURFACE
N.T.S.

ALL ON-SITE SIDEWALK CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

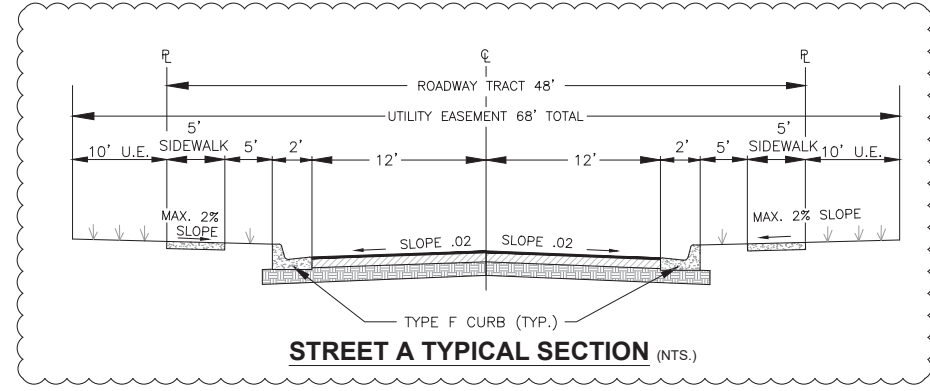


- NOTES:**
1. SEE PLANS FOR SIGNAGE TYPES AND LOCATIONS
 2. SIGN PLACEMENT SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND DESIGN STANDARD INDEX'S.
 3. SIGNAGE SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION

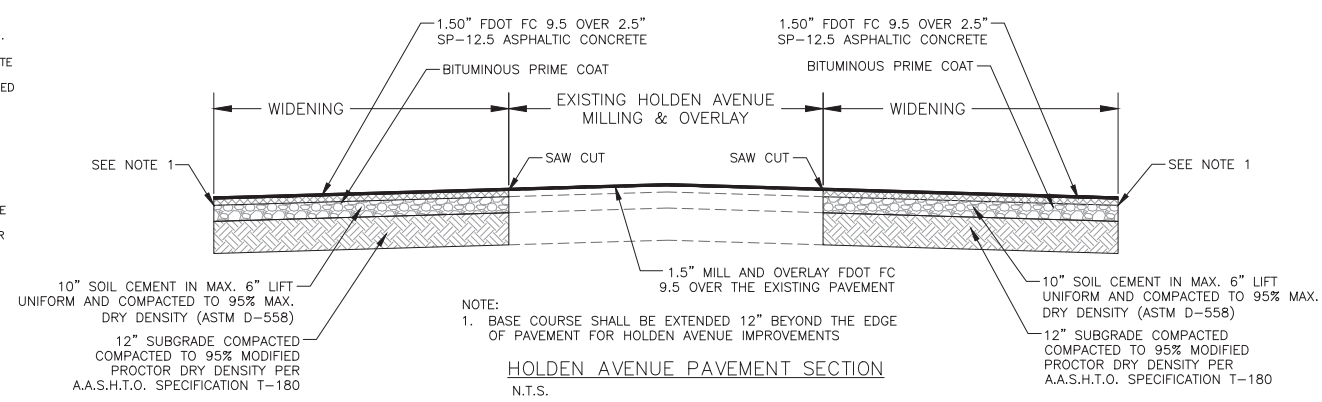


SIDEWALK CURB RAMP
N.T.S.

REFER TO FDOT INDEX NO. 304, DETAIL CR 22



STREET A TYPICAL SECTION (N.T.S.)



NOTE:
1. BASE COURSE SHALL BE EXTENDED 12\"/>

HOLDEN AVENUE PAVEMENT SECTION
N.T.S.



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CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

CIVIL DETAILS 1

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SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	01-13-2022	BRE	CONST PLAN REVISIONS
2	04-22-2022	BRE	OCPW RAI #1

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

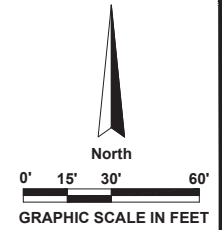
AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-203

NOTES:

1. ALL PROJECT SITE PERIMETER SLOPES AND DRY POND SLOPES ARE TO BE SODDED.
2. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET ORANGE COUNTY AND A.D.A. SPECIFICATIONS.
3. ALL HANDICAP ACCESSIBLE PARKING SPACES, HANDICAP ACCESSIBLE SIDEWALK ROUTES AND ALL SITE SIDEWALKS ARE NOT TO EXCEED A 2.00% MAXIMUM CROSS SLOPE. ALL SIDEWALKS ARE NOT TO EXCEED 5.00% LONGITUDINAL SLOPE, EXCEPT AT CURB RAMPS OR UNLESS OTHERWISE SHOWN. ALL HANDICAP PARKING SPACES ARE NOT TO EXCEED 2.00% LONGITUDINAL SLOPE.

LEGEND	
▲ 90.00	FINISHED ELEVATION
▲ 85.50	EXISTING ELEVATION
→	STORMWATER FLOW ARROW
⊙	SOIL BORING



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CONSTRUCTION PLANS

GRADING PLAN NORTH

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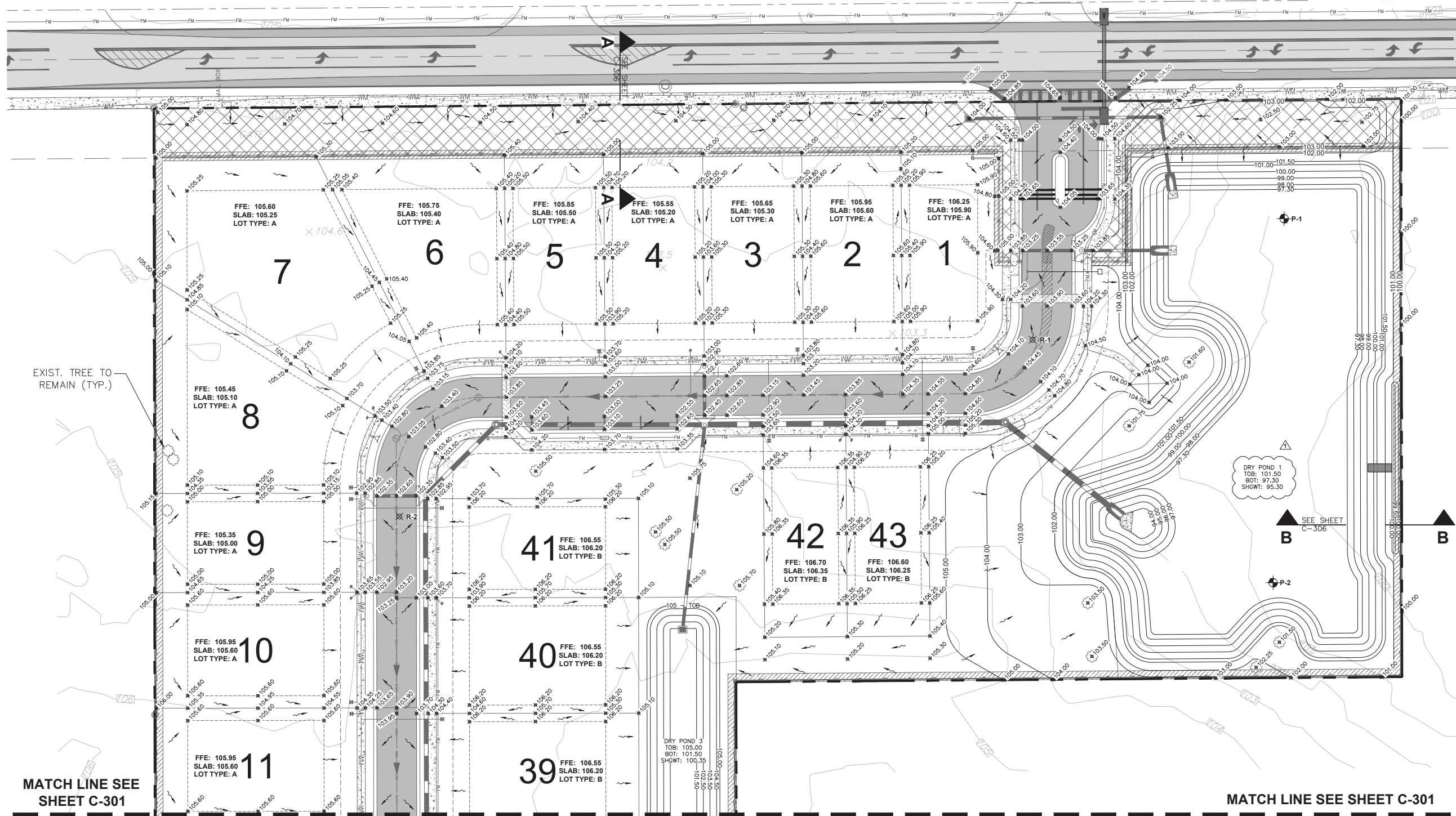
SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	01-13-2022	BRE	CONST PLAN REVISIONS

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

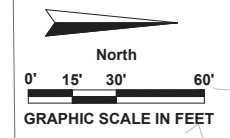
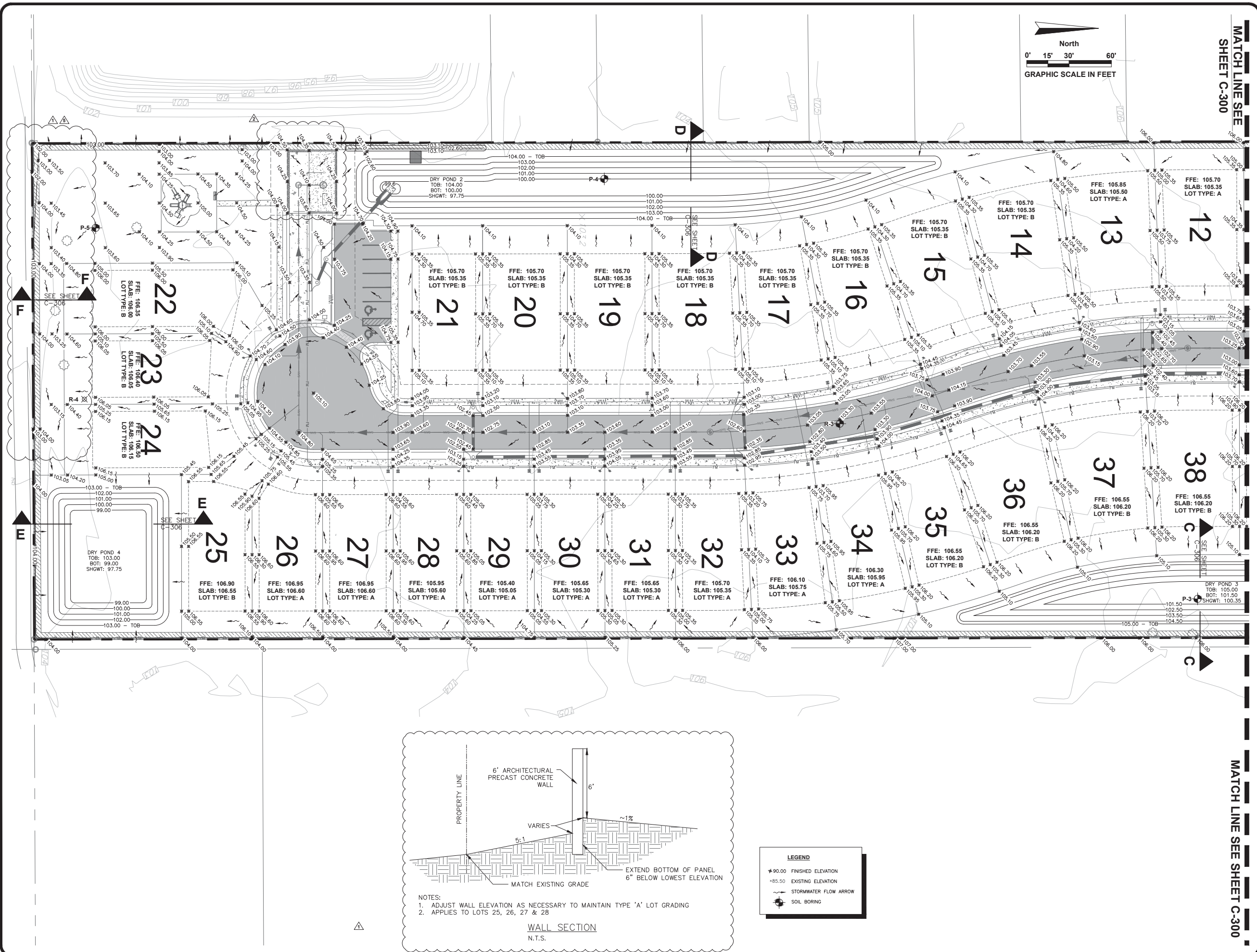
SHEET NUMBER
C-300



MATCH LINE SEE SHEET C-301

MATCH LINE SEE SHEET C-301

L:\Projects\2019\2019.0099.15 - Haven Oaks - Submittals\2022\08\30\Grading Plan\Grading Plan (C-300).dwg



MATCH LINE SEE SHEET C-300

MATCH LINE SEE SHEET C-300



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HAVEN OAKS

CONSTRUCTION PLANS

GRADING PLAN SOUTH

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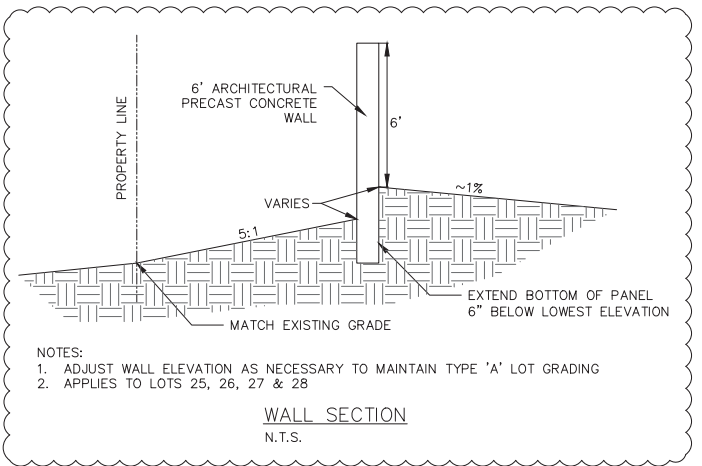
SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
△	01-13-2022	BRE	CONST PLAN REVISIONS
△	04-22-2022	BRE	OCPW RAI #1
△	07-19-2022	BRE	CITY OF EDGEWOOD REV2

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-301



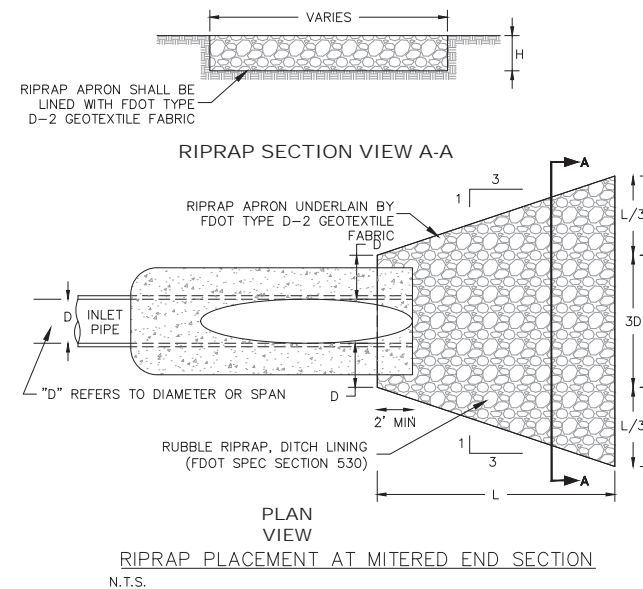
LEGEND

- ★ 90.00 FINISHED ELEVATION
- × 85.50 EXISTING ELEVATION
- STORMWATER FLOW ARROW
- SOIL BORING

15/20/2022 10:00 AM - AVCON - ALDO E. MEJIAS - 2019.0099.15 - GRADING PLAN SOUTH - SHEET C-301 - 1/18

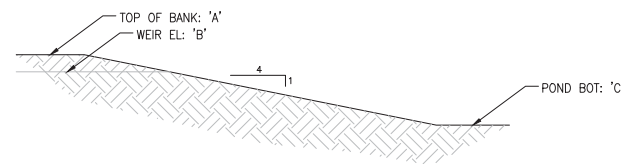
GRADING AND DRAINAGE NOTES

- ALL ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 88.
- PRIOR TO INITIATING ANY EXCAVATION ACTIVITIES, CONTRACTOR SHALL TAKE ALL NECESSARY AND PRACTICAL MEASURES TO ENSURE THAT UNAUTHORIZED ACCESS TO THE EXCAVATION IS PREVENTED.
- ALL GRADING AND SITE PREPARATION SHALL CONFORM TO SPECIFICATIONS CONTAINED IN THE CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC DATA, LOCATION OF EXISTING UTILITIES AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION WITHIN STREET RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF EDGEWOOD REQUIREMENTS.
- ALL OPEN DRAINAGE SWALES SHALL BE SODDED PER PROJECT SPECIFICATIONS.
- ALL GRADES SHOWN, WITH THE EXCEPTION OF THOSE INDICATED ON THE SURVEY BASE DRAWING, ARE EXTERIOR FINISHED GRADES UNLESS INDICATED OTHERWISE.
- INLET AND MANHOLE ELEVATIONS ARE TOP OF RIM.
- ALL SIDEWALK CROSS SLOPE SHALL HAVE MAXIMUM 2% CROSS SLOPE. SIDEWALK ALONG BUILDING SHALL SLOPE AWAY FROM BUILDING AND SIDEWALK ALONG STREET SHALL SLOPE TOWARD THE STREET.
- ALL ROOF DRAINAGE DISCHARGE IS TO CONNECT TO ONSITE STORMWATER MANAGEMENT SYSTEM, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF ALL TIE-INS TO ROOF DRAINAGE PIPING PRIOR TO INSTALLATION OF ROOF PIPING AND ASSOCIATED FITTINGS.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE A MINIMUM CLASS III, UNLESS OTHERWISE SPECIFIED.
- WRAP ALL CONCRETE PIPE JOINTS WITH A MINIMUM TWO (2) FOOT, TYPE D-3 FILTER FABRIC (SEE FILTER FABRIC JACKET DETAIL).
- ALL PVC STORM SEWER PIPE WITH A DIAMETER OF 4 INCHES AND LARGER, SHALL HAVE A MINIMUM DIMENSION RATIO OF 35. ALL PVC STORM SEWER PIPE WITH A DIAMETER LESS THAN 4 INCHES SHALL BE SCHEDULE 40.
- ALL PROPOSED PAVING SURFACES IN INTERSECTIONS AND ADJACENT EXISTING SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE PROPOSED GRADES AND FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADES TO INTERSECTIONS MAY REQUIRE MINOR LOCAL FIELD ADJUSTMENTS IF THE ACTUAL FIELD CONDITIONS VARY FROM THE SURVEYED INFORMATION THAT THE DESIGN WAS BASED UPON IN ORDER TO ACCOMPLISH THE INTENT OF THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOMPLISH THIS AND CONSULT THE ENGINEER AS NEEDED TO MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INFORMATION SHOULD THE INTENT OF THE PLANS BE UNCLEAR.
- THE CONTRACTOR IS RESPONSIBLE FOR PAVING ALL ROADWAYS TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. IF AN AREA OF POOR DRAINAGE IS OBSERVED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PAVING SO THAT A SOLUTION OR RECOMMENDATION FOR CORRECTION MAY BE MADE.
- AFTER THE PAVEMENT SECTIONS HAVE BEEN CONSTRUCTED TO SUBGRADE, THEY SHALL BE PROOF-ROLLED TO ASSURE PROPER COMPACTION HAS BEEN ACHIEVED. THE PROOF ROLLING AND COMPACTION OPERATIONS SHALL BE INSPECTED AND TESTED BY A FLORIDA LICENSED GEOTECHNICAL ENGINEER TO ASSURE THAT THE SPECIFIED COMPACTION IS MAINTAINED AND ALL DELETERIOUS MATERIALS HAVE BEEN REMOVED.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXCESS CUT OR SUPPLYING FILL AS NEEDED TO GRADE THE SITE AS DEPICTED IN THE CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING PIPE INVERTS AND PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY DRAINAGE STRUCTURES. IF EXISTING PIPE INVERTS VARY FROM WHAT IS SHOWN IN THE TABLE OF DRAINAGE STRUCTURES, CONTRACTOR SHALL NOTIFY CIVIL ENGINEER WITH THE CORRECT INVERTS. IF NECESSARY, CIVIL ENGINEER WILL MAKE ADJUSTMENTS TO PROPOSED STRUCTURE INVERT ELEVATIONS.
- CONTRACTOR SHALL VISUALLY INSPECT ALL EXISTING STORM PIPES THAT ARE SHOWN AS TO REMAIN. ANY MAJOR VISUAL DAMAGE TO SAID EXISTING PIPES SUCH AS CRACKING, CRUMBLING, AND UN-ALIGNED JOINTS SHALL BE REPORTED IMMEDIATELY TO THE CIVIL ENGINEER.
- CONTRACTOR SHALL DESILT ALL EXISTING STORM PIPES THAT ARE SHOWN AS TO REMAIN.
- ALL PAVEMENT ELEVATIONS SHOWN WITHIN THE EXISTING BUS LOOP AND VEHICLE PARKING LOT ARE INTERPRETED FROM THE PROJECT SURVEY. SAID ELEVATIONS ARE INTENDED TO MATCH THE EXISTING GRADES WITHIN THE AREAS MENTIONED. THESE GRADES ARE SHOWN TO ILLUSTRATE THAT THE SIDEWALK SHALL BE CONSTRUCTED 6 INCHES ABOVE THE FINISHED ASPHALT GRADE.
- FLORIDA LAW (F.S. 556) UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT MANDATES THAT EXCAVATORS / CONTRACTORS SHALL CONTACT SUNSHINE 811 (FKA: SUNSHINE STATE ONE-CALL OF FLORIDA) BY CALLING 800-432-4770 OR 811 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO 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.
- CONTRACTOR SHALL COMPLY WITH OSHA TRENCH SAFETY STANDARDS 29 CFR 1926.650, SUBPART E, AND ALL SUBSEQUENT REVISIONS OR UPDATES ADOPTED BY THE DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY AND WITH SECTION 553.62, FLORIDA STATUTES.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR MUST MEET ALL THE CRITERIA FOR A "NO-NOTICE" DEWATERING PERMIT AS SPECIFIED IN SECTION 2.5.1 OF THE "BASIS OF REVIEW FOR WATER USE PERMIT APPLICATIONS WITHIN THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)."
- THE "NO-NOTICE" DEWATERING CRITERIA INCLUDES, BUT IS NOT LIMITED TO, RETAINING ALL THE DEWATERING DISCHARGE ON THE PROJECT SITE.
- IF THE CONDITIONS OF THE "NO-NOTICE" DEWATERING PERMIT CANNOT BE MET, THE CONTRACTOR IS TO SUBMIT A DEWATERING PERMIT APPLICATION TO THE SJRWMD AT LEAST 30 DAYS PRIOR TO THE PROPOSED DEWATERING ACTIVITIES. DEWATERING CANNOT COMMENCE BEFORE THE SFWMD ISSUES A DEWATERING PERMIT FOR THIS PROJECT.



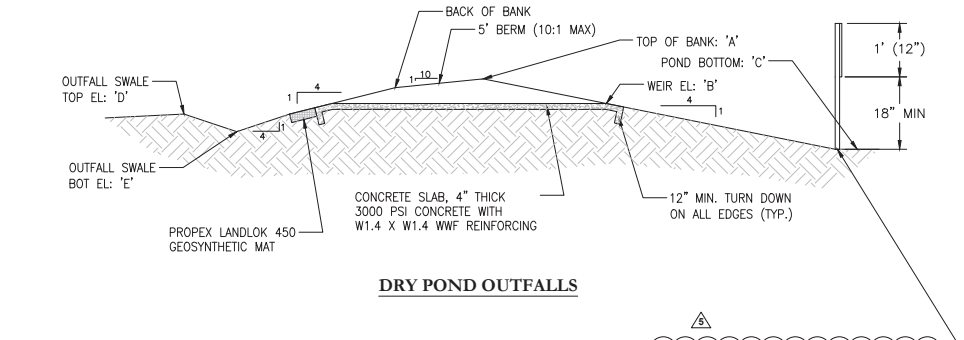
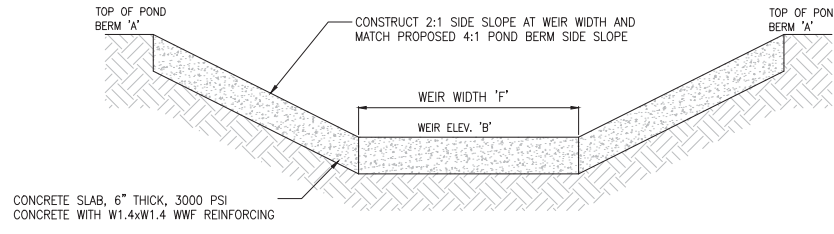
RIPRAP APRON DIMENSIONS AND ESTIMATED QUANTITIES

INLET PIPE SIZE "D" (IN)	LENGTH OF APRON "L" (FT)	DEPTH OF APRON "h" (FT)	ESTIMATED RIPRAP (CY)	ESTIMATED GEOTEXTILE (SY)
24x38	13.5	2	14	36
29x45	16	2	20	47



Pond Chart

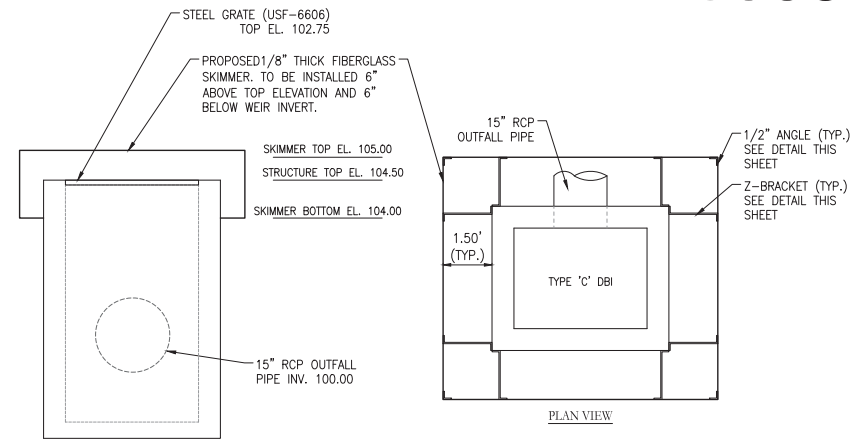
Pond #	El. 'A'	El. 'B'	El. 'C'	SHGWT	MEAN ANNUAL	10 YR - 24 HR	25 YR - 24 HR	100 YR - 24 HR	FREEBOARD
1	101.50	100.15	97.30	94.80	98.95	100.33	100.53	100.98	0.97
2	104.00	103.25	100.00	97.75	101.90	103.27	103.35	103.50	0.65
3	105.00	N/A	101.50	100.35	102.46	103.64	104.28	104.65	0.72
4	103.00	N/A	99.00	97.75	99.70	100.85	101.53	102.67	1.47



Pond Chart

Pond #	El. 'A'	El. 'B'	El. 'C'	El. 'D'	El. 'E'	WIDTH 'F'
1	101.50	100.15	97.30	100.00	99.50	5.00'
2	104.00	103.25	100.00	103.10	102.60	8.00'

FIBERGLASS SKIMMER
SKIMMER TOP ELEV. (12" OR 1') (B PLUS .5)
SKIMMER BOTTOM ELEV. (B-.5)
(MAINTAIN 18" CLEARANCE MIN. FROM BOTTOM OF SKIMMER TO BOTTOM OF POND/SUMP)
(SKIMMER SHALL BE ATTACHED USING STAINLESS STEEL SCREWS, BOLTS, ANGLES, ETC.)



**PROPOSED TYPE "C" OUTFALL W/STEEL GRATE USF-6606
OUTFALL STRUCTURE CS-1**
N.T.S.



ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

**GRADING & DRAINAGE
DETAILS 2**

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SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	01-13-2022	BRE	CONST PLAN REVISIONS
2	07-19-2022	BRE	CITY OF EDGEWOOD REV 2

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

**SHEET NUMBER
C-305**



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CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
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P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

GRADING SECTIONS

ATTENTION:

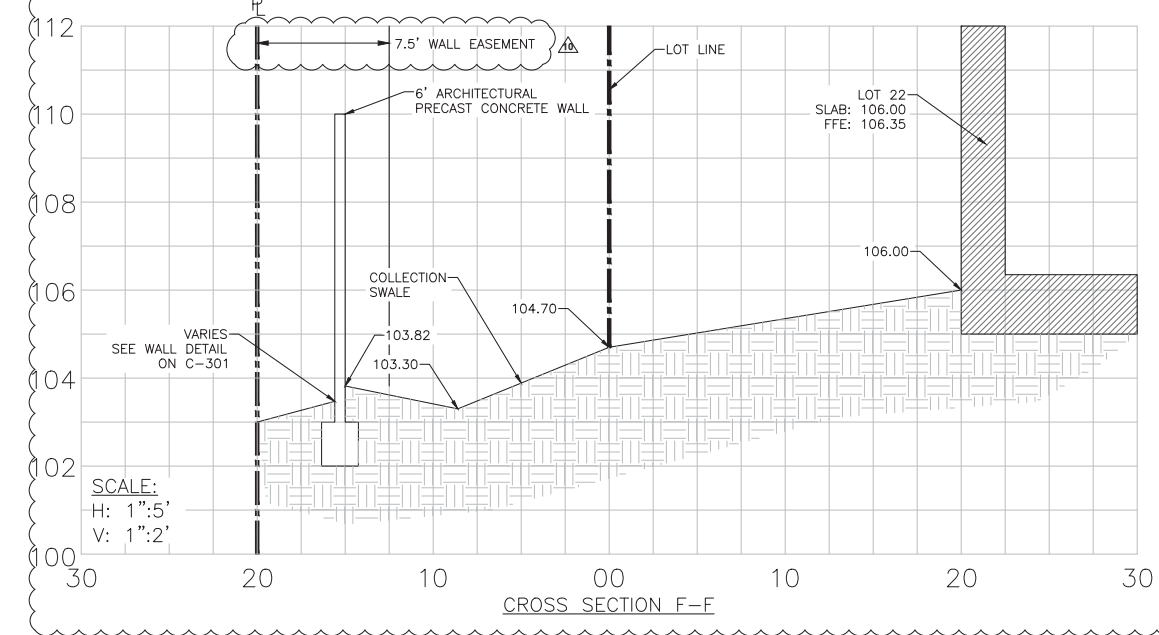
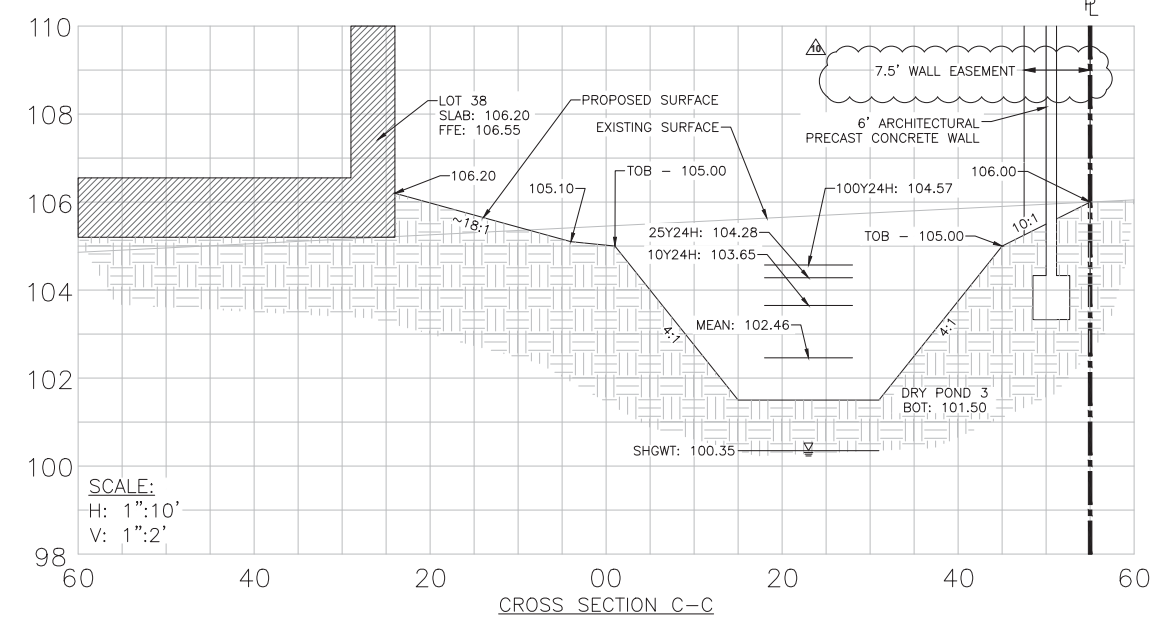
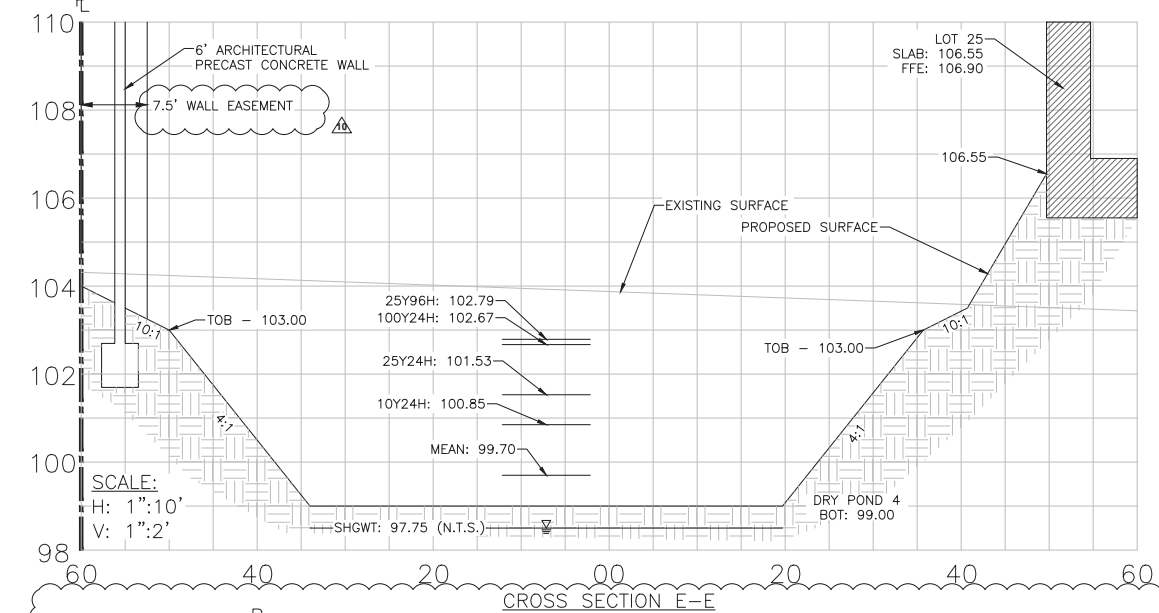
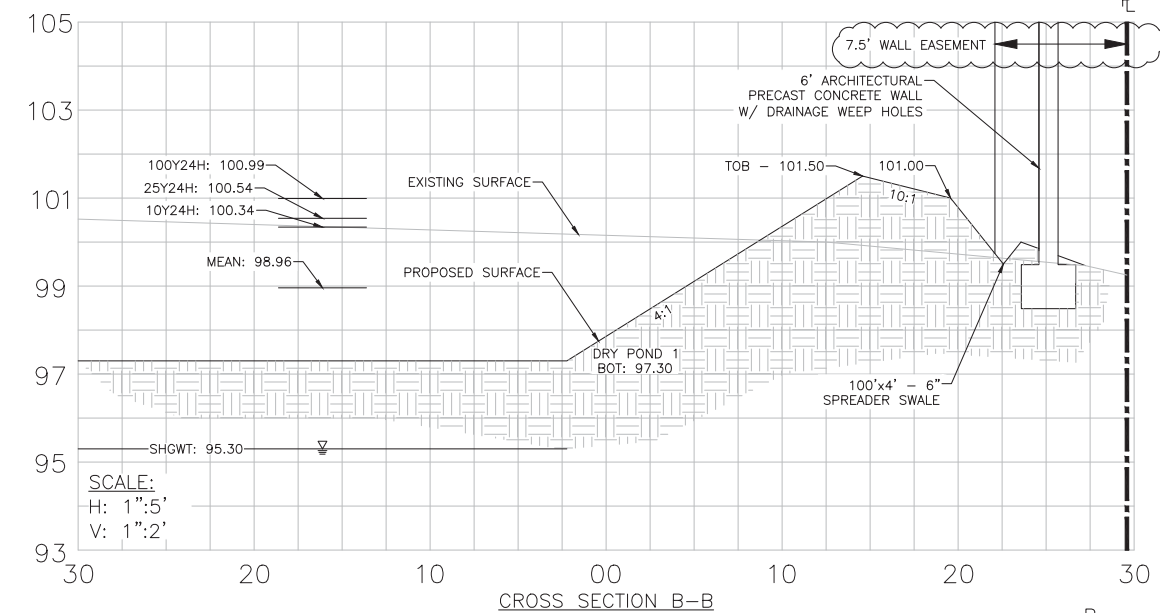
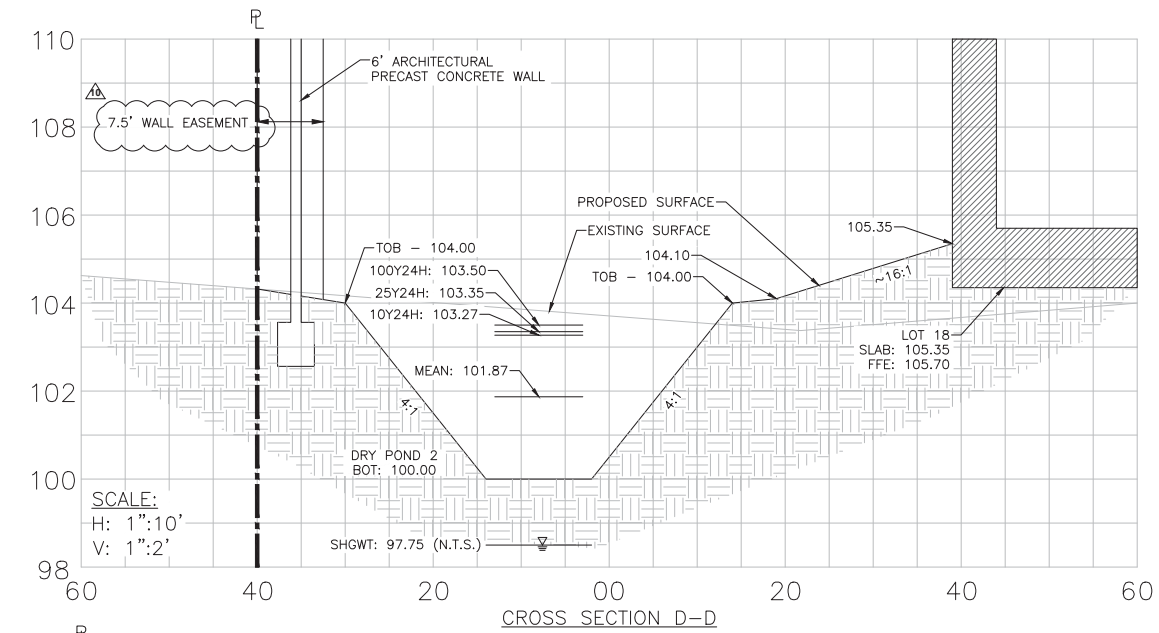
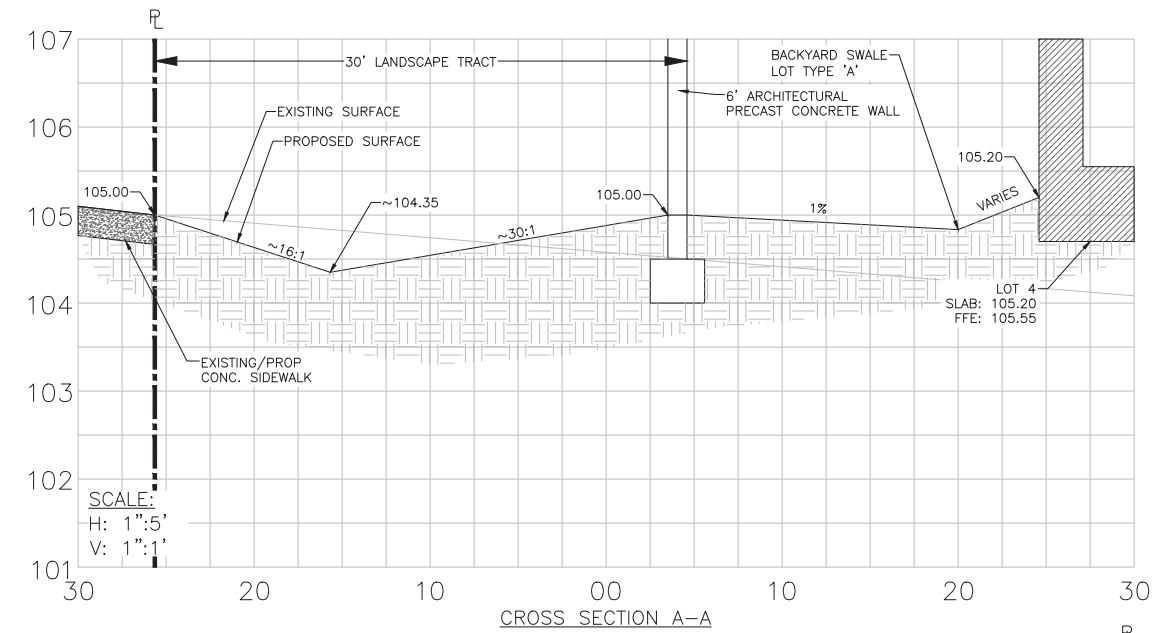
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SCALE:

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△	07-19-2022	BRE	CITY OF EDGEWOOD REV2
△	11-17-2022	BRE	WALL EASEMENT

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 11-17-2022

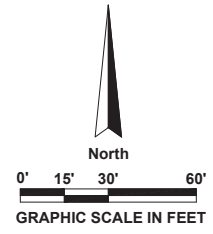
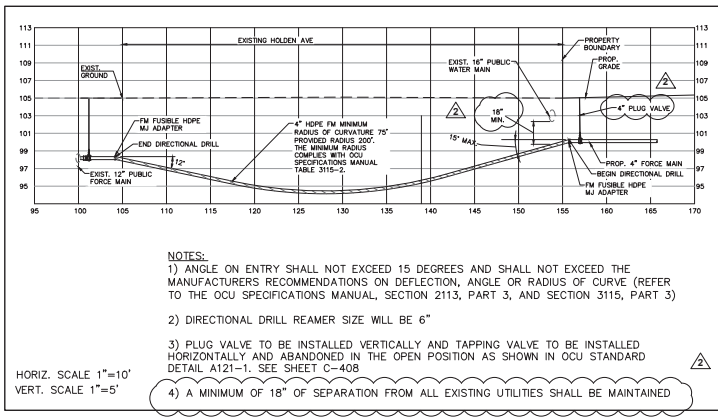
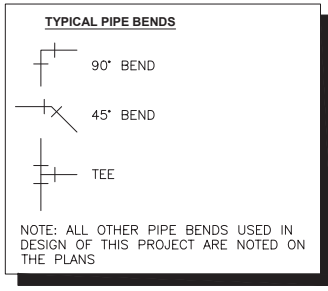
AVCON PROJECT No. 2019.0099.15



11/21/2022 10:58 AM - 11/21/2022 10:58 AM - 11/21/2022 10:58 AM - 11/21/2022 10:58 AM - 11/21/2022 10:58 AM

LEGEND

—	WATER LINE
—	SANITARY LINE
—	FORCE MAIN
⊕	FIRE HYDRANT ASSEMBLY
X	GATE VALVE
C-01	CROSSING NUMBER
⊙	SANITARY MANHOLE
⊠	SAMPLE POINT (TOTAL OF XX)
↓	WATER SERVICE
↘	SANITARY LATERAL



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HAVEN OAKS

CONSTRUCTION PLANS

UTILITY PLAN NORTH

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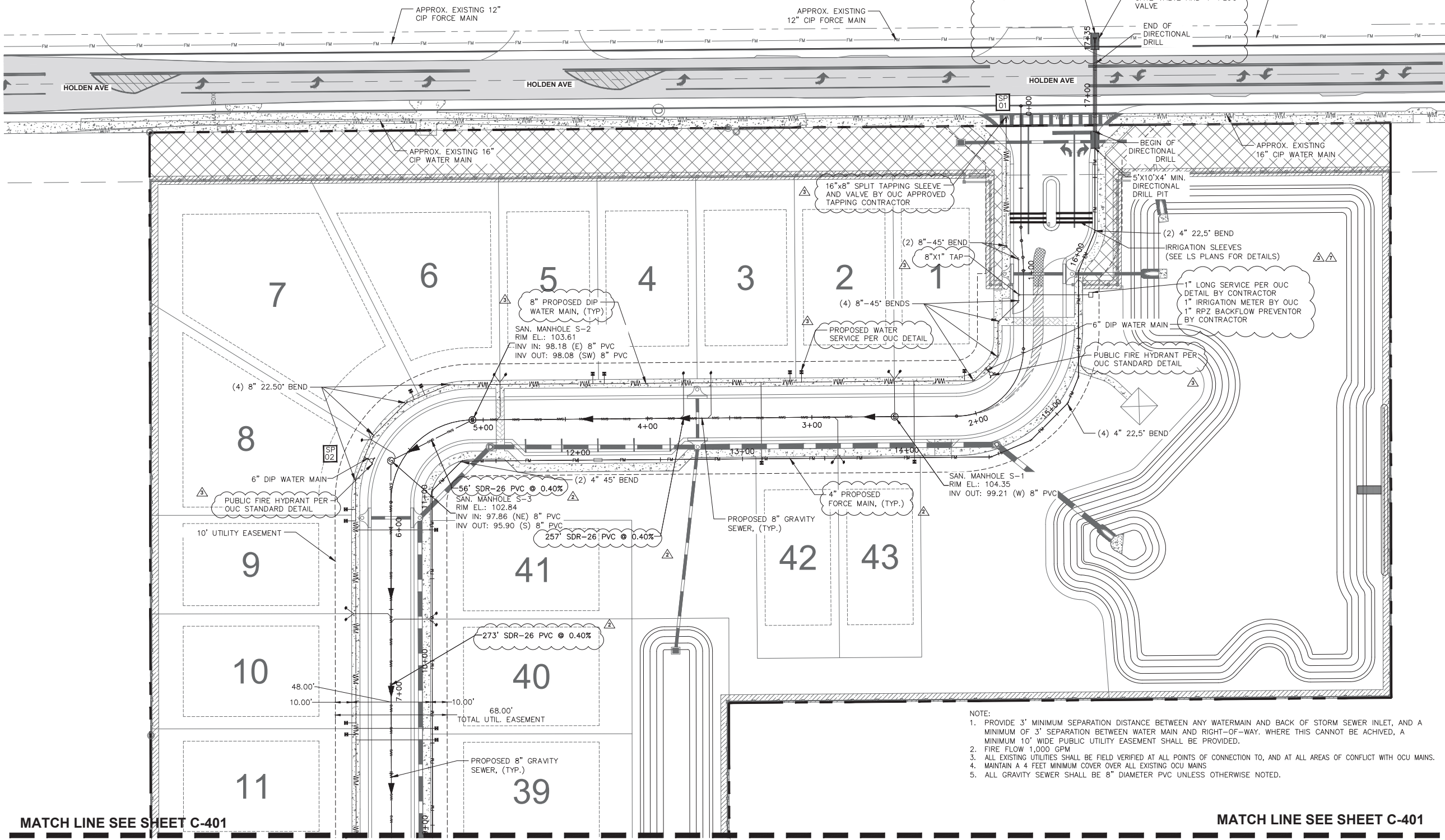
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△	04-22-2022	BRE	OCPW RAI #1
△	05-19-2022	BRE	OCU RAI #1
△	08-24-2022	BRE	OCU RAI #2

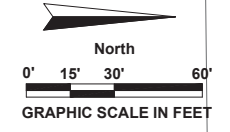
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APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

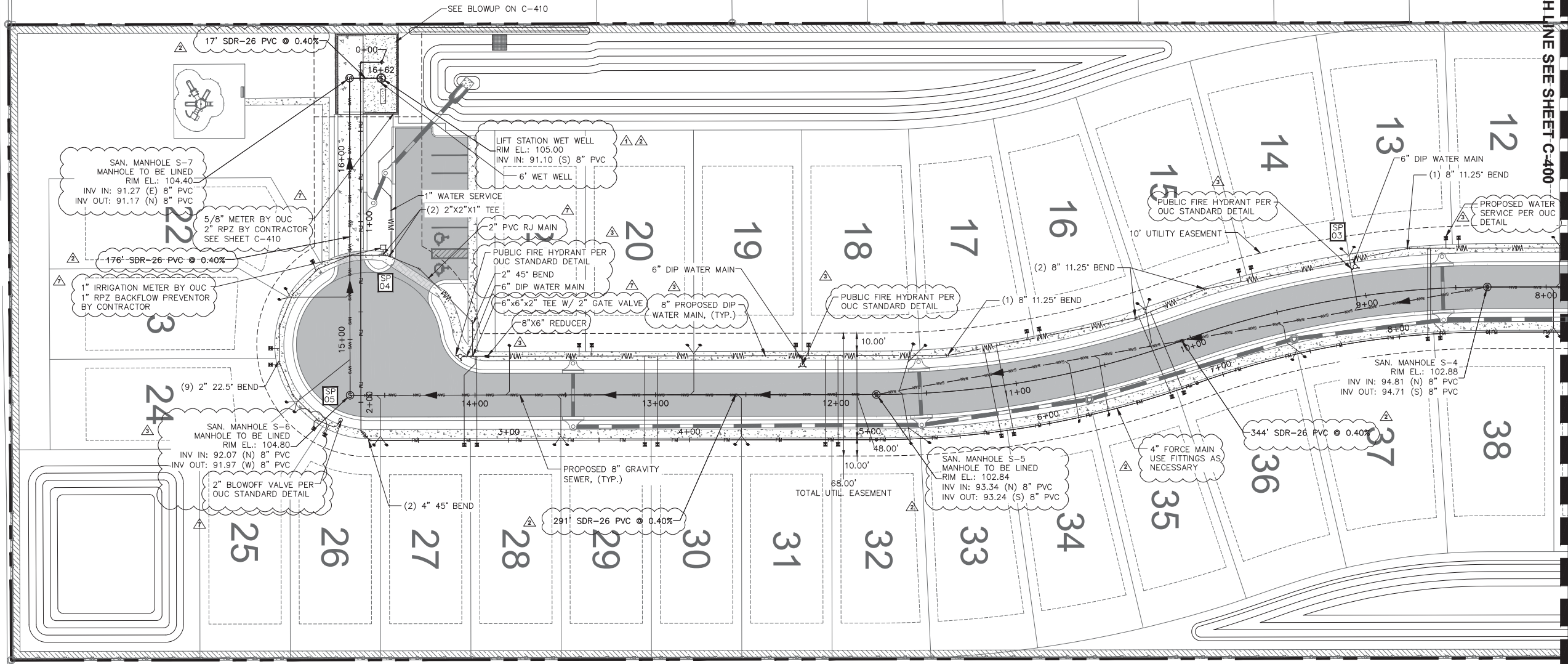
SHEET NUMBER
C-400



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MATCH LINE SEE SHEET C-400



ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

UTILITY PLAN SOUTH

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3	05-19-2022	BRE	OCU RAI #1
4	08-24-2022	BRE	OCU RAI #2

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SHEET NUMBER
C-401

MATCH LINE SEE SHEET C-400

LEGEND

	WATER LINE
	SANITARY LINE
	FORCE MAIN
	FIRE HYDRANT ASSEMBLY
	GATE VALVE
	CROSSING NUMBER
	SANITARY MANHOLE
	SAMPLE POINT (TOTAL OF XX)
	WATER SERVICE
	SANITARY LATERAL

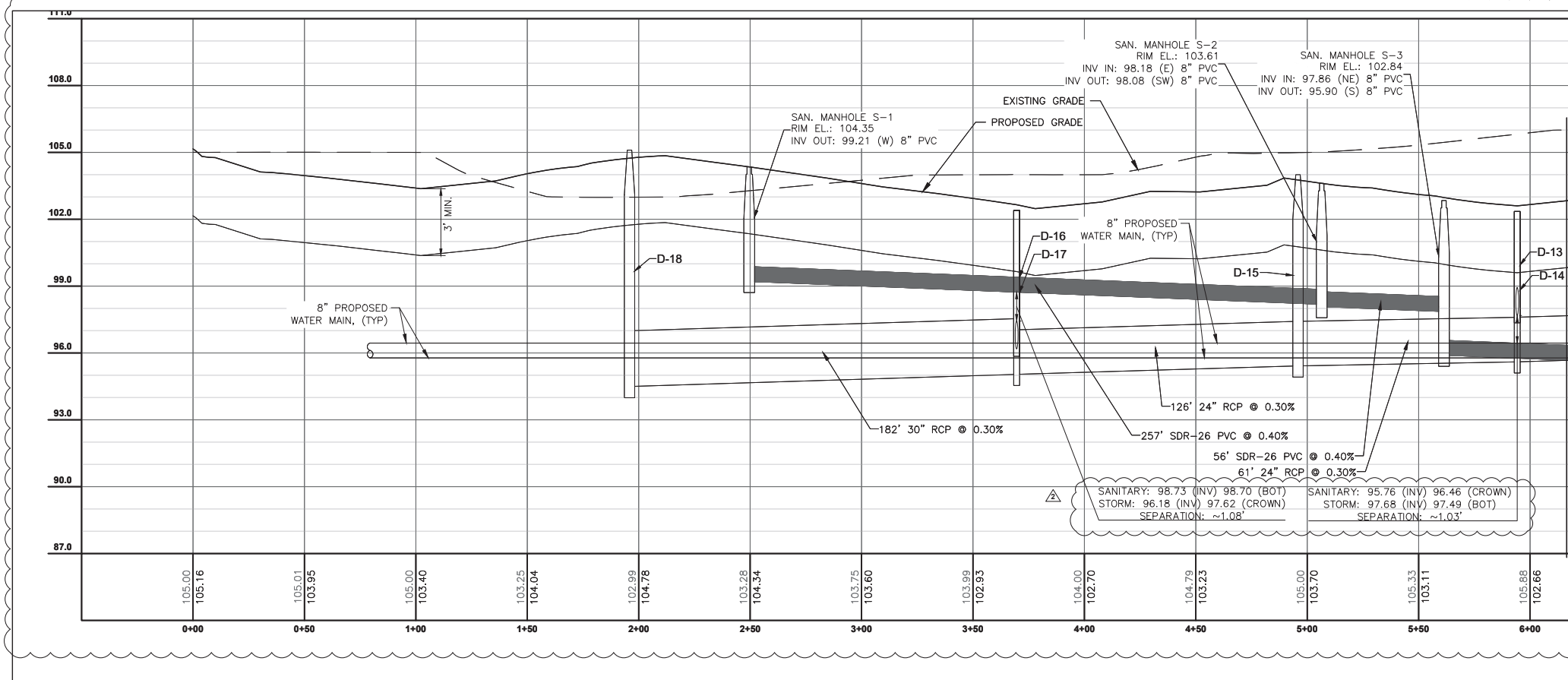
TYPICAL PIPE BENDS

	90° BEND
	45° BEND
	TEE

NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

- NOTE:
- PROVIDE 3' MINIMUM SEPARATION DISTANCE BETWEEN ANY WATERMAIN AND BACK OF STORM SEWER INLET, AND A MINIMUM OF 3' SEPARATION BETWEEN WATER MAIN AND RIGHT-OF-WAY. WHERE THIS CANNOT BE ACHIEVED, A MINIMUM 10' WIDE PUBLIC UTILITY EASEMENT SHALL BE PROVIDED.
 - FIRE FLOW 1,000 GPM
 - ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED AT ALL POINTS OF CONNECTION TO, AND AT ALL AREAS OF CONFLICT WITH OCU MAINS.
 - MAINTAIN A 4 FEET MINIMUM COVER OVER ALL EXISTING OCU MAINS
 - ALL GRAVITY SEWER SHALL BE 8" DIAMETER PVC UNLESS OTHERWISE NOTED.

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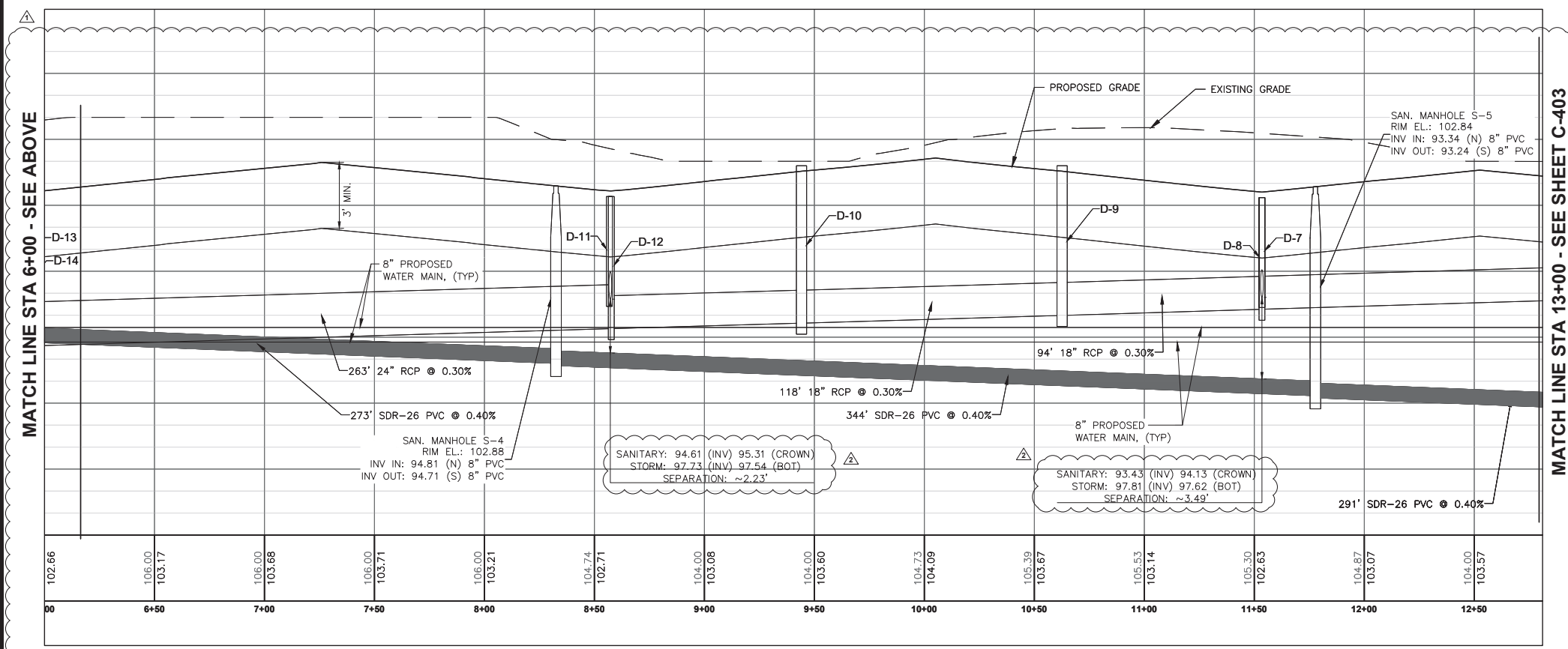


PROFILE VIEW
STA 0+00 TO STA 6+00

DRAINAGE STRUCTURES

D-7	RM = 103.35 INV OUT = 98.85
D-8	RM = 103.35 INV IN = 98.50 INV OUT = 98.04
D-9	RM = 104.80 INV IN = 97.66 INV OUT = 97.66
D-10	RM = 104.80 INV IN = 97.19 INV OUT = 97.19
D-11	RM = 103.40 INV OUT = 98.90
D-12	RM = 103.40 INV IN = 98.55 INV IN = 96.96 INV OUT = 96.96
D-13	RM = 103.35 INV OUT = 98.85
D-14	RM = 103.35 INV IN = 98.50 INV IN = 95.91 INV OUT = 95.91
D-15	RM = 105.00 INV IN = 95.57 INV OUT = 95.57
D-16	RM = 103.15 INV OUT = 98.65
D-17	RM = 103.15 INV IN = 98.30 INV IN = 95.01 INV OUT = 95.01
D-18	RM = 105.10 INV IN = 94.34 INV OUT = 94.34

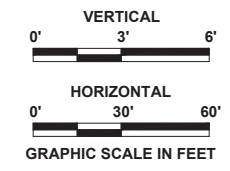
MATCH LINE STA 6+00 - SEE BELOW



PROFILE VIEW
STA 6+00 TO STA 13+00

MATCH LINE STA 6+00 - SEE ABOVE

MATCH LINE STA 13+00 - SEE SHEET C-403



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HAVEN OAKS

CONSTRUCTION PLANS

PROFILE PLAN 1

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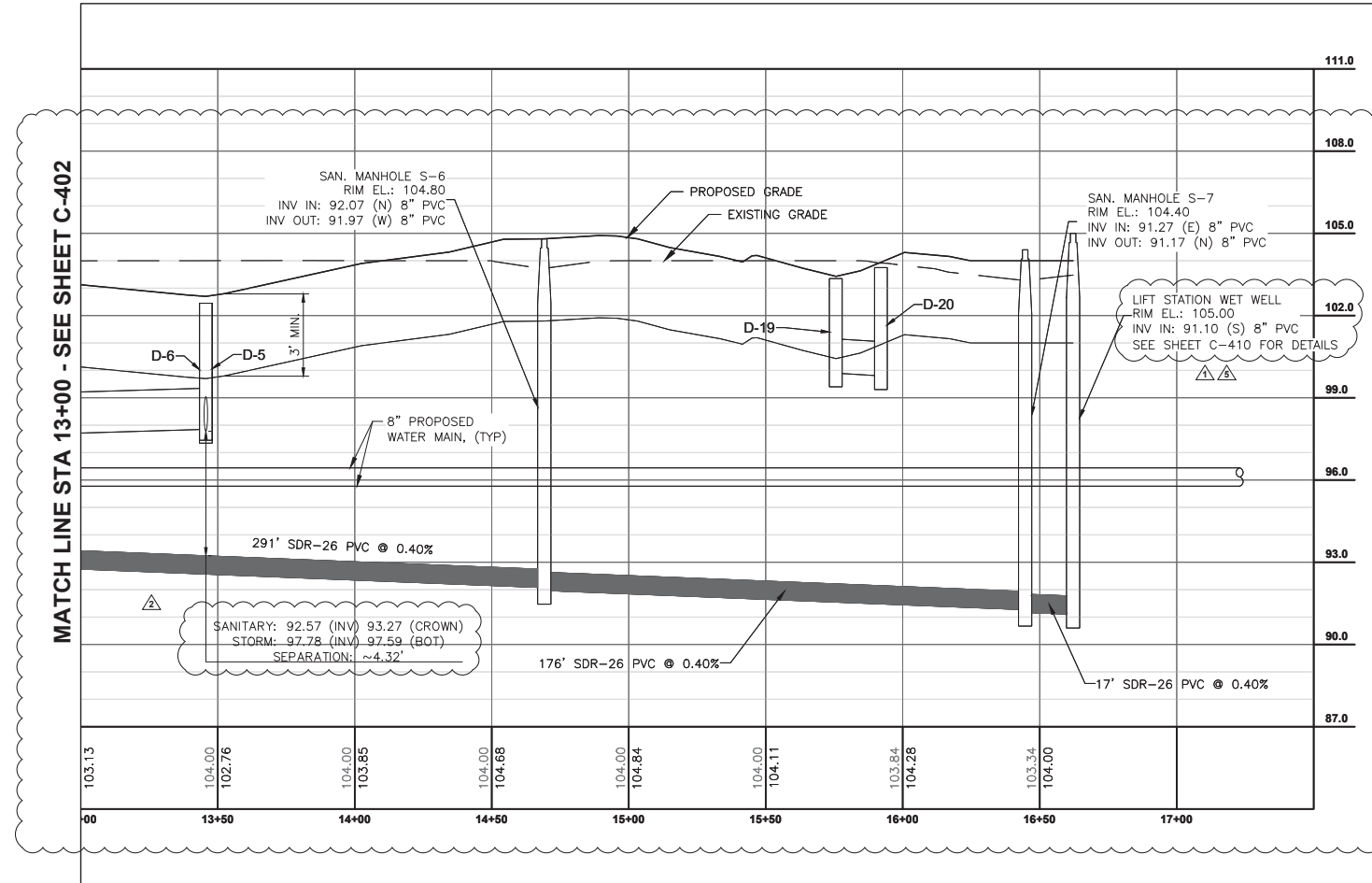
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AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-402



PROFILE VIEW
STA 13+00 TO STA 17+00

DRAINAGE STRUCTURES

D-5	RIM = 103.45 INV OUT = 98.95
D-6	RIM = 103.45 INV IN = 98.81 INV OUT = 98.81
D-19	RIM = 104.10 INV OUT = 100.47
D-20	RIM = 103.65 INV OUT = 100.31
D-21	RIM = 103.75 INV IN = 100.20 INV IN = 100.20 INV OUT = 100.20



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HAVEN OAKS

CONSTRUCTION PLANS

PROFILE PLAN 2

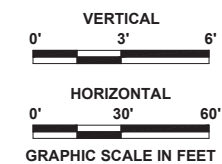
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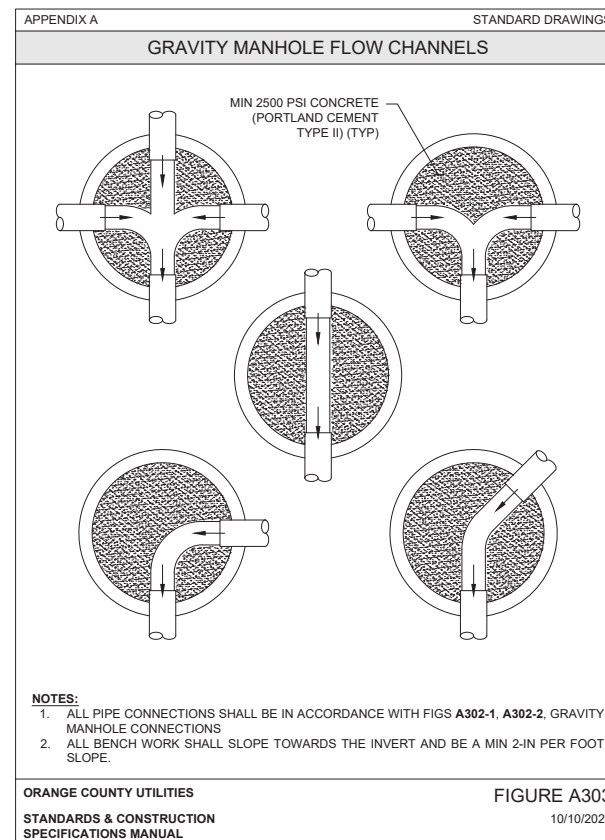
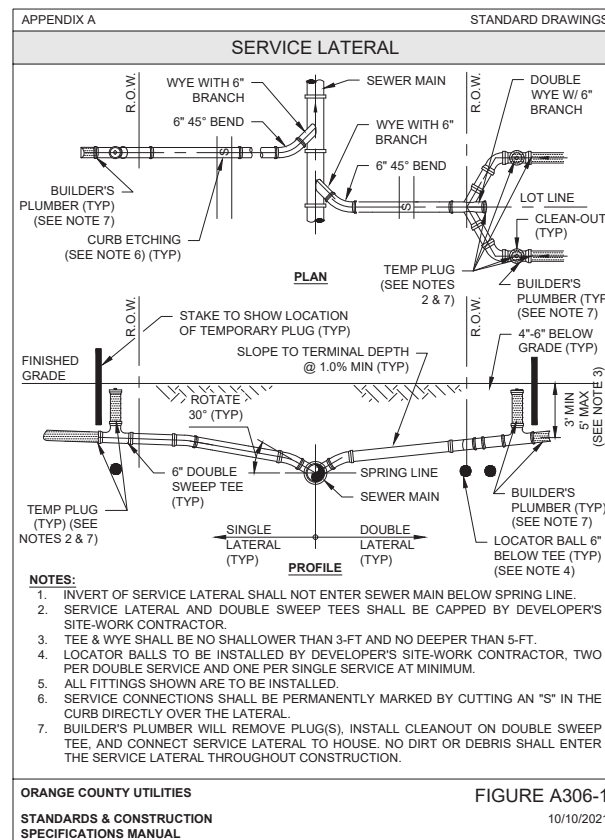
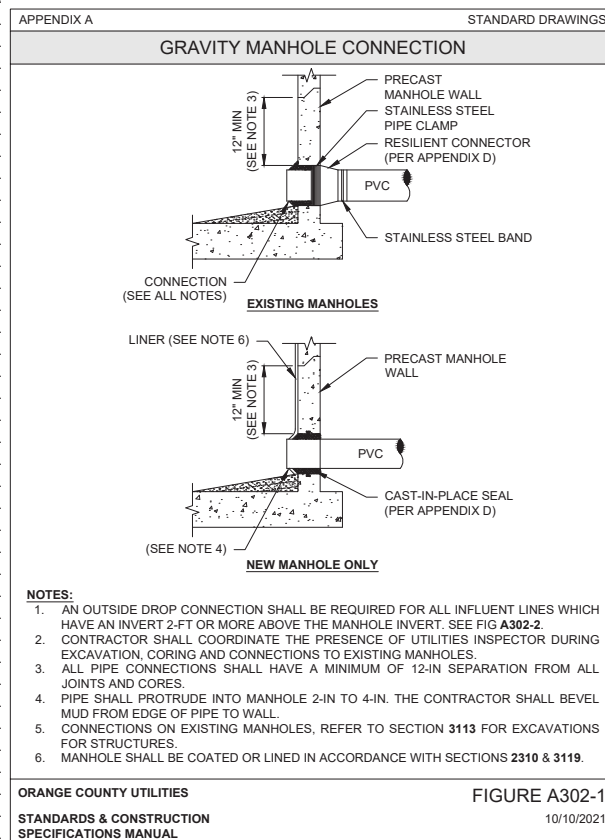
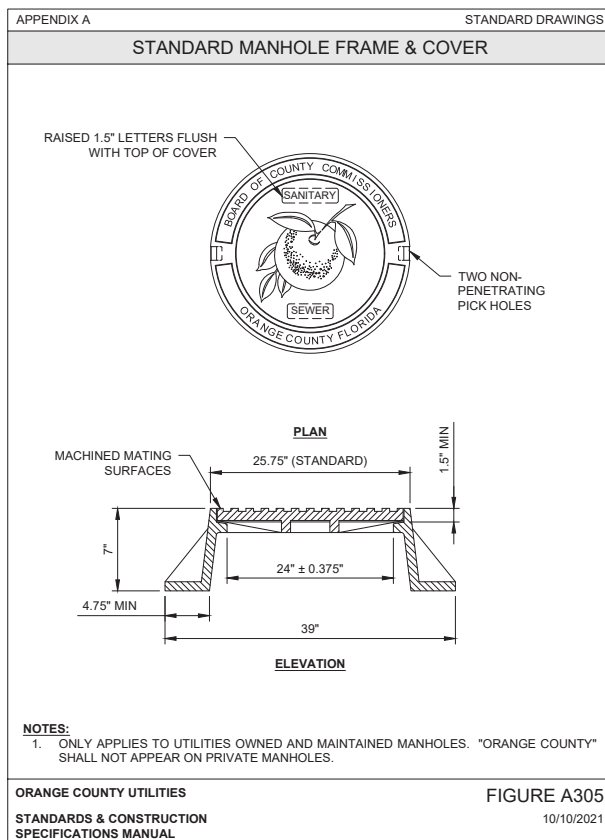
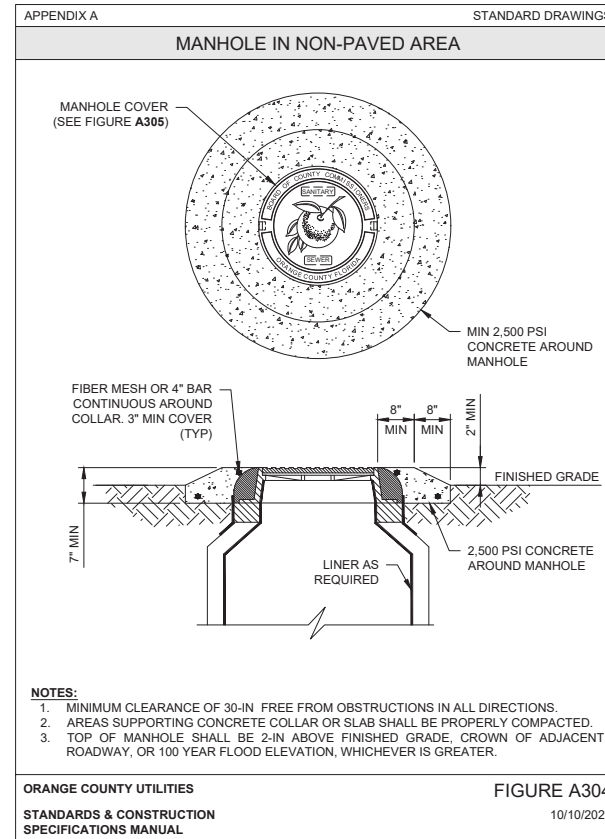
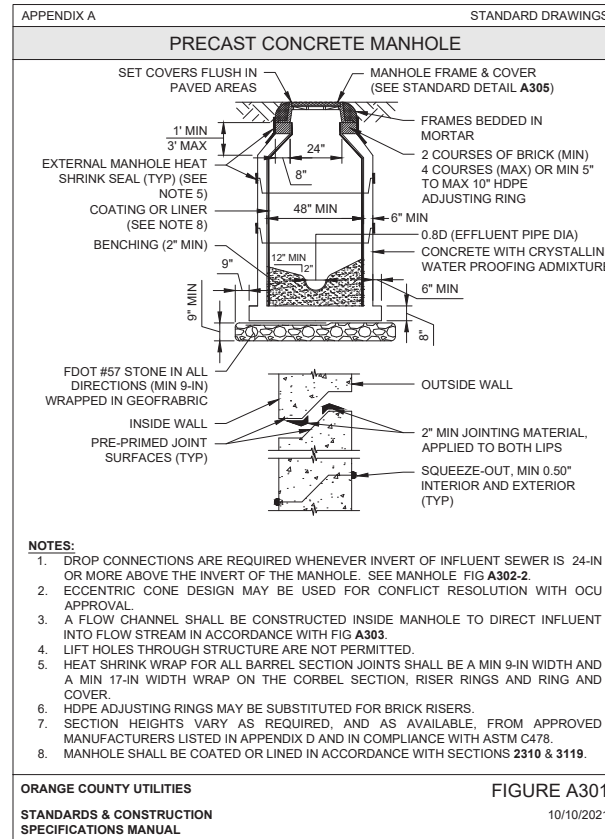
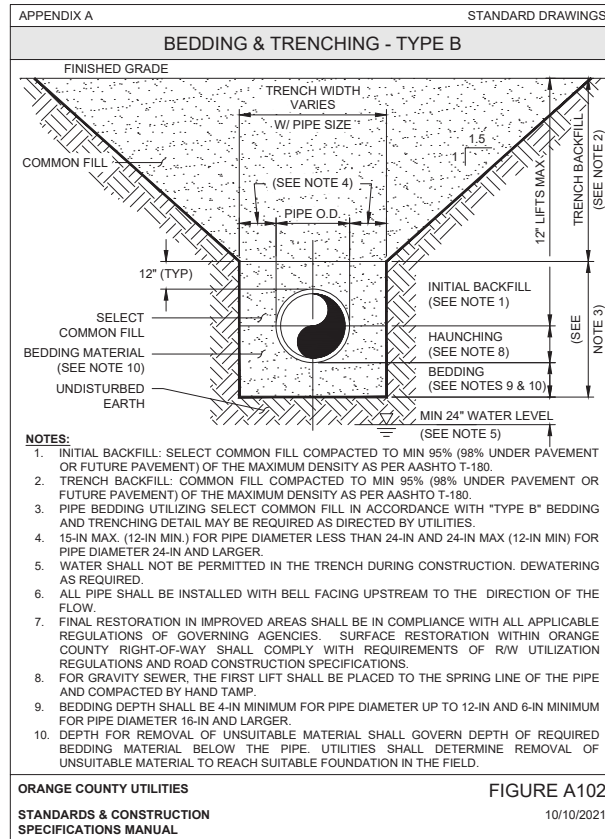
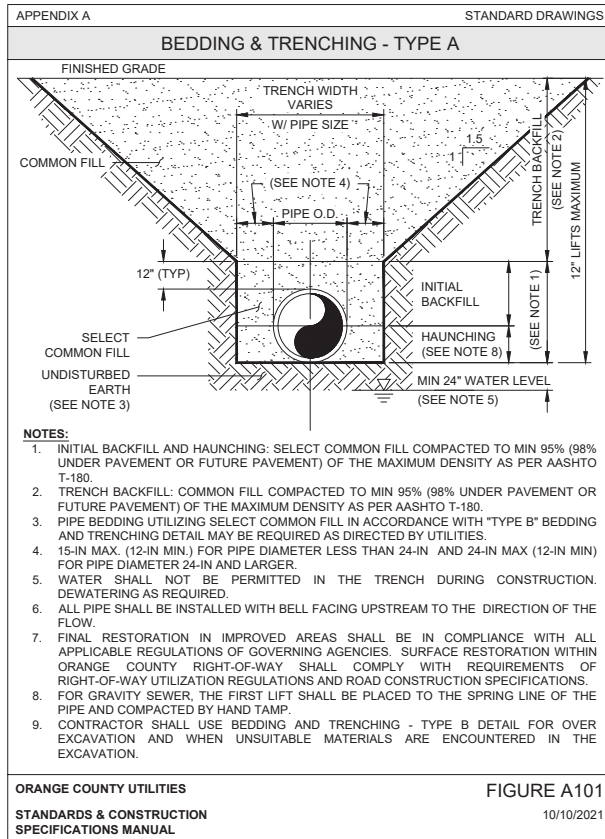
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△	07-19-2022	BRE	CITY OF EDGEWOOD REV2



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HAVEN OAKS

CONSTRUCTION PLANS

UTILITY DETAILS 1

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APPENDIX A		STANDARD DRAWINGS									
HORIZONTAL PIPELINE SEPARATION REQUIREMENTS											
HORIZONTAL SEPARATION REQUIREMENTS (NOTES 1 & 2)											
PROPOSED UTILITY		POTABLE WATER (NOTE 3)		RECLAIMED WATER MAIN (SEE NOTE 7)		WASTEWATER FORCEMAIN		SANITARY SEWER		STRUCTURAL FOUNDATION, WALLS, ETC. (SEE NOTE 8)	
		4"-12"	16"-UP	4"-12"	16"-UP	4"-12"	16"-UP	ALL SIZES	ALL SIZES	ALL SIZES	ALL SIZES
POTABLE WATER (NOTE 3)	4"-12"	3'	5'	3'	5'	6'	6'	6'	3'	10'	
	16"-UP	5'	5'	5'	5'	6'	6'	6'	5'	15' (NOTE 5)	
RECLAIMED WATER MAIN (SEE NOTE 7)	4"-12"	3'	5'	3'	5'	3'	5'	3'	3'	10'	
	16"-UP	5'	5'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)	
WASTEWATER FORCEMAIN	4"-12"	6'	6'	3'	5'	3'	5'	3'	3'	10'	
	16"-UP	6'	6'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)	
SANITARY SEWER	ALL SIZES	6'	6'	3'	5'	3'	5'	3'	5'	VARIES PER DEPTH	

NOTES:
1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. FOR PIPES INSTALLED AT GREATER DEPTHS THAN THE MINIMUM OCU DESIGN STANDARDS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
3. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, F.A.C. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), F.A.C. AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES PRIOR TO INSTALLATION.
4. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
5. PRESSURE MAINS 16-IN TO 24-IN MAY HAVE 10-FT SEPARATION FROM STRUCTURAL FOUNDATION, WALLS, ETC IF NEW MAINS ARE RESTRAINED FOR THE ENTIRE LENGTH.
6. REFERENCE FIGURE A116-2 FOR VERTICAL PIPELINE SEPARATION REQUIREMENTS.
7. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-910, F.A.C.
8. ADDITIONAL SEPARATION SHALL BE REQUIRED BY UTILITIES FOR CONSTRUCTION OF, INCLUDING, BUT NOT LIMITED TO: LIVE LOADS, MULTI-STORY COMMERCIAL BUILDINGS, SUPERSTRUCTURES, EMBANKMENTS, RETAINING WALLS, BRIDGES, RAILROADS, HIGH VOLTAGE TRANSMISSION MAINS, GAS MAINS, ETC.

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL
FIGURE A116-1
10/10/2021

OUC Water Engineering Notes (Rev. 10/30/13):

The developer/customer shall accomplish all water main and service work through the point of service/control valve and water meters and deed to OUC. OUC will own and operate up to and including the OUC point of service/control valve and meters only. The required work shall be performed per current OUC guidelines, OUC Water Distribution Standard Specifications and OUC Water Distribution Material Specifications and water detail sheet under OUC inspection. The developer/customer must contact OUC Inspection at 407-649-4428 to schedule a pre-construction meeting prior to any water construction.

A minimum 4' clearance (including landscaping) must be maintained around meter assembly.

Domestic/fire master meter assembly will be provided by OUC at the developer/customer's expense and shall be installed by the developer/customer. After payment, allow 30 days for receipt of the meter by OUC. The developer/customer shall arrange pickup from the OUC warehouse facility through the OUC inspector.

Contact OUC Inspection department for approved material and construction specifications pertaining to the installation of ductile iron pipe via directional or jack and bore method.

The developer/customer shall field verify the horizontal and vertical location of existing OUC water facilities before commencement of construction.

For water wet taps, use only OUC approved tapping contractors:

- Action Industries, Inc. 352-732-6941 or 800-216-4464
- Central Florida Tapping and Construction Services, Inc. 407-834-8271
- Mac Tapping, Inc. 407-468-0557
- Rangeline Tapping Services, Inc. 800-346-5971
- TDW Services, Inc. 407-843-2800
- T & R Tapping Service, Inc. 407-339-3685
- EA Services 407-880-6786

Easements:

All on-site OUC water facilities (mains, services, meters, and fire hydrants) shall be located within a utility easement in accordance with current OUC private property guidelines. The developer is to furnish all necessary information, including legal description(s) to prepare and document this easement. Water meters and fire services will not be activated until the final easement(s) have been received and approved by OUC. Any questions or comments please contact OUC Property and Right of Way department at 407-434-2158.

APPENDIX A		STANDARD DRAWINGS					
VERTICAL PIPELINE SEPARATION REQUIREMENTS							
VERTICAL SEPARATION REQUIREMENTS (NOTES 1 & 2)							
PROPOSED UTILITY	POTABLE WATER (NOTE 4)	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)		
POTABLE WATER (NOTE 4)	12"	12"	12" / 18"	12" / 18"	12" / 18"		
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"		
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"		
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"		

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

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL
FIGURE A116-2
10/10/2021

Connection to Existing valve

Contractor to verify location, condition and pressure test existing valve prior to connection. If valve does not hold required pressure test additional valve will be required at developer/contractor's expense.

OUC Backflow Prevention Requirements:

Backflow devices will be owned and maintained by customer unless otherwise noted. Any questions contact OUC Backflow Prevention Department at 407-649-4428.

Domestic and Irrigation

The Developer/Customer is responsible for the required Reduced Pressure Backflow Preventer. Residential domestic backflow preventers are required in areas where reclaimed or other water supply, i.e. well, is provided to the site.

Fire Line:

The Developer/Customer is responsible for the required Reduced Pressure Detector Check Assembly w/Monitoring meter for backflow prevention.

As - Built Drawings

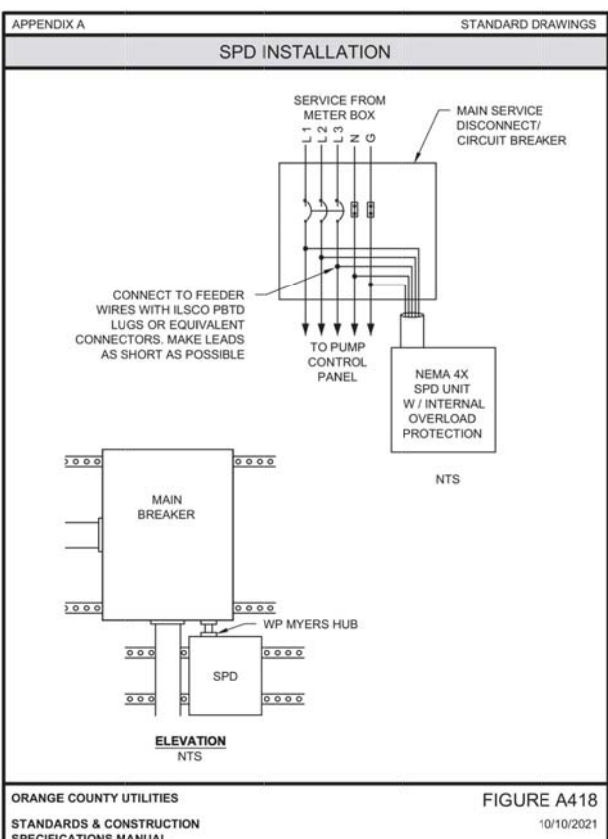
The customer/developer shall provide vertical and horizontal as-built information relative to all constructed utilities and structures. The submittal will include a signed and sealed drawing and a CD with the as built information in AutoCAD 2004 format.

State Planes Coordinates, East Florida, NAD 1983-90 is the preferred coordinate system. If a project coordinate system is used, all drawings will be based on this system and existing features i.e. edge of pavement, road intersections, buildings must be referenced to aid in the locating of project infrastructure in OUC's Geographic Information System. If no existing features are shown at least 2 State Plane Coordinate points must be surveyed and bench marked.

As-Built information for the water system shall include, but not be limited to, the following:

1. Location of all valves, fittings, hydrants, and services.
2. Location of the water main tied horizontally to the back of curb or edge of pavement.
3. Certification as to the system meeting the minimum cover requirements.
4. Horizontal and vertical data for any construction which deviates from the approved engineering plans.

The contractor shall cut "W" in the top curb of each water service and a "V" at all valve locations. Cut W's and V's shall be highlighted with blue paint.



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HAVEN OAKS

CONSTRUCTION PLANS

UTILITY DETAILS 2

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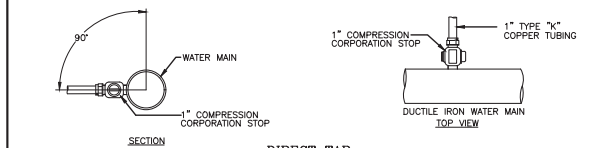
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NO.	DATE	BY	DESCRIPTION

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

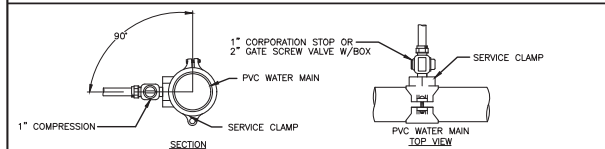
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SHEET NUMBER
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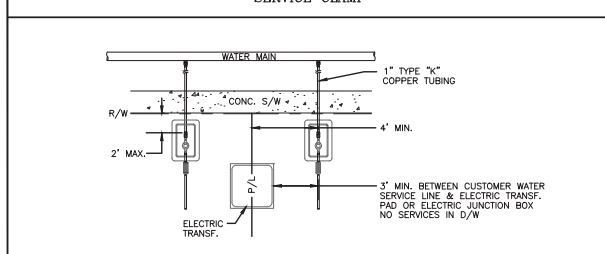
SERVICE LINE DETAILS



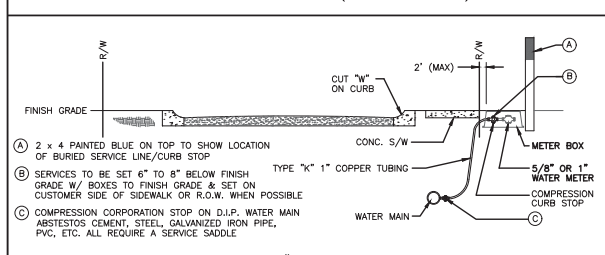
DIRECT TAP



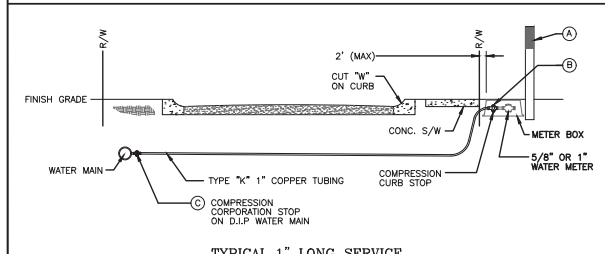
SERVICE CLAMP



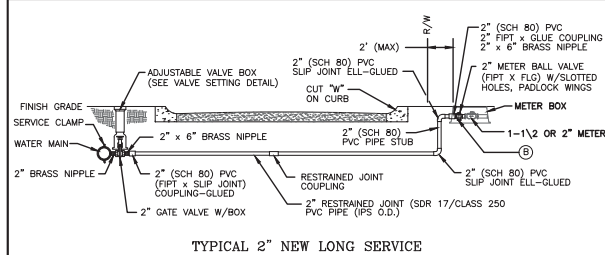
TYPICAL 1" SERVICE LOCATION (SHORT OR LONG)



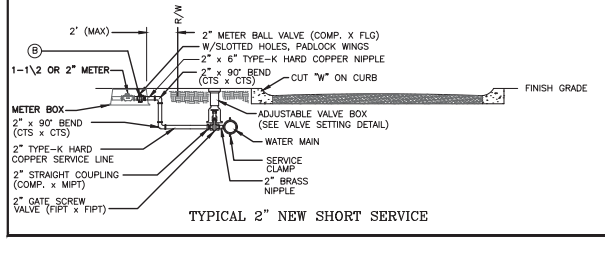
TYPICAL 1" SHORT SERVICE



TYPICAL 1" LONG SERVICE



TYPICAL 2" NEW LONG SERVICE



TYPICAL 2" NEW SHORT SERVICE

SERVICE LINE NOTES

- NOTE:
- O.U.C. SHALL FURNISH/INSTALL ALL WATER METERS.
 - O.U.C. SHALL FURNISH METER BOXES, DEVELOPER'S CONTRACTOR TO INSTALL.
 - METER SHOULD BE ON THE CUSTOMER SIDE OF THE RIGHT-OF-WAY NO FURTHER THAN 2' BEYOND RIGHT-OF-WAY LINE AND ALWAYS ALONG THE BACK SIDE OF CONC. SIDEWALK.

LEGEND

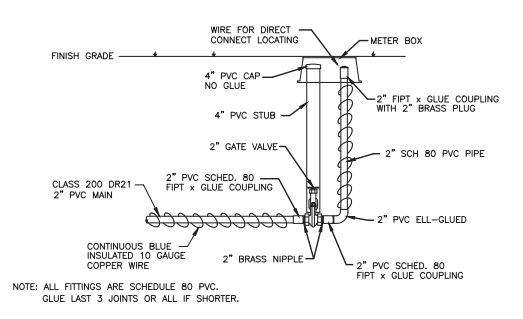
DT	DIRECT TAP MAY BE ALLOWED
SC	SERVICE CLAMP IS REQUIRED
NA	NOT ALLOWED
+	ASBESTOS CEMENT, STEEL, GALVANIZED IRON PIPE, PVC, ETC. ALL REQUIRE A SERVICE SADDLE.

PIPE	SIZE	CORPORATION TAP SIZE
D.I.	12"	DT SC
D.I.	10"	DT SC
D.I.	8"	DT SC
D.I.	6"	DT SC
D.I.	4"	DT SC
PVC	4" C-300	SC SC
PVC	2"-30021	SC NA

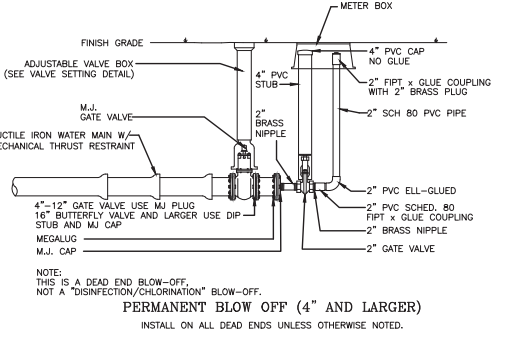
TAPPING FOR 1" CORP. STOP, & 2" GATE VALVE

SPECIAL NOTICE:
 HAVING RECLAIM WATER SERVICE
 WHERE RECLAIM WATER IS PROVIDED TO A PROPERTY, O.U.C.'S POTABLE WATER SYSTEM MUST BE PROTECTED BY AN APPROVED DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER WITH TOP ACCESS (FOR TESTING AND MAINTENANCE), INSTALLED, OWNED AND MAINTAINED BY O.U.C.
 NO CONNECTIONS ARE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTER.
 PRIOR TO ANY RECLAIM WATER SERVICE INSTALLATION, INSPECTION AND TESTING WILL BE CONDUCTED BY A REPRESENTATIVE OF THE RECLAIM WATER PROVIDER TO MAKE CERTAIN THAT THE APPROPRIATE BACKFLOW DEVICE HAS BEEN INSTALLED ON THE DOMESTIC WATER SERVICE.

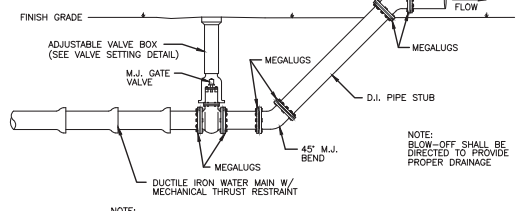
BLOW OFF DETAILS



2" PVC DEAD END WITH PERMANENT BLOW OFF
 INSTALL ON ALL DEAD ENDS UNLESS OTHERWISE NOTED.



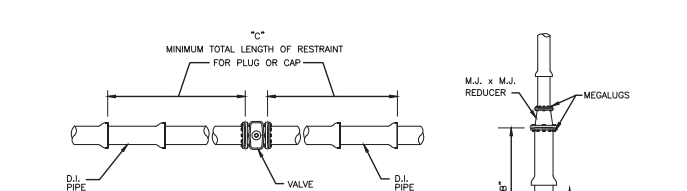
PERMANENT BLOW OFF (4" AND LARGER)
 INSTALL ON ALL DEAD ENDS UNLESS OTHERWISE NOTED.



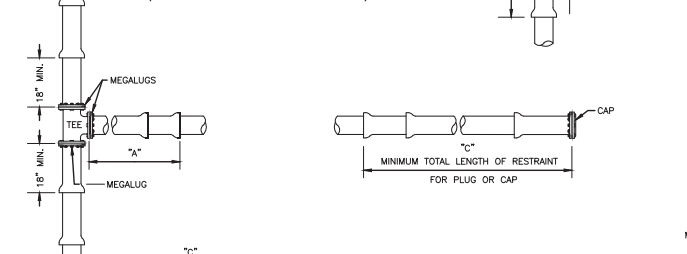
TEMPORARY BLOW OFF (4" THROUGH 12") FOR CONSTRUCTION PURPOSE

RESTRAINED JOINT STANDARDS

CONTACT O.U.C. FOR SPECIAL RESTRAINT DETAILS FOR WORK ON EXISTING PIPING.



INLINE VALVE RESTRAINT
 (TREAT AS PLUG OR CAP IN BOTH DIRECTIONS)



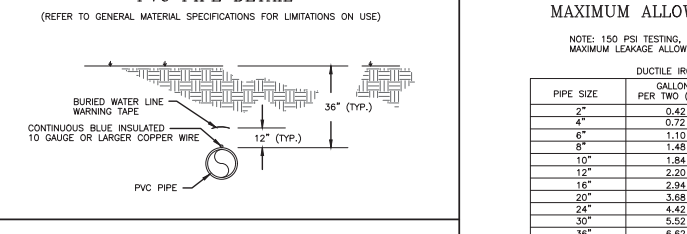
RESTRAINT FOR BEND

FITTING SIZE"	DUCTILE IRON PIPE		PVC PIPE	
	RESTRAINT "C" (LF)	RESTRAINT "A" (LF)	RESTRAINT "C" (LF)	RESTRAINT "A" (LF)
11-1/4"	2	3	4	5
22-1/2"	4	6	8	9
45" OFFSET	9	12	16	22
90"	21	29	38	46
VALVE/PLUG/CAP	44	61	80	96

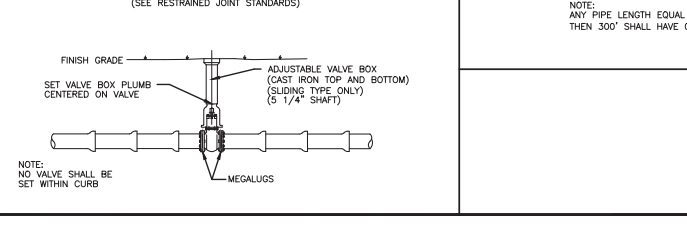
MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED.

- NOTES:**
- ALL FITTINGS SHALL HAVE APPROPRIATE MECHANICAL THRUST RESTRAINT (WEDGE-ACTION OR FULL CIRCUMFERENCE ARTICULATING WEDGE, EQUAL TO 1100 SERIES MEGALUG OR STAR-GRIP)
 - ALL COMPONENTS OF RESTRAINING MECHANISMS FOR PUSH-ON OR MECHANICAL JOINTS SHALL BE OF CORROSION RESISTANT MATERIAL OR SUITABLY PROTECTED AGAINST CORROSION.
 - THE PIPE LENGTHS IMMEDIATELY ON EITHER SIDE OF A FITTING SHALL BE ADEQUATELY TIED TOGETHER USING PROPRIETARY LOCKING GASKETS SUCH AS FIELD LOC OR FAST GRIP GASKETS.
 - INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
 - WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH RESTRAINED PIPE. ALL ROAD CROSSINGS SHALL BE RESTRAINED AT EACH JOINT.
 - THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
 - LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" SIXTH EDITION 2008 AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
 THE MAXIMUM TEST PRESSURE IS 150 P.S.I.
 THE LAYING CONDITION IS TYPE 4 (BACKFILL COMPACTED TO TOP OF PIPE)
 DIPRA SILENT #1.
 ALL BENDS ARE INSTALLED HORIZONTALLY
 THE PIPE IS DUCTILE IRON PIPE
 DEPTH OF COVER IS ASSUMED TO BE 3 FEET FOR 12" AND SMALLER WATER MAINS
 DEPTH OF COVER IS ASSUMED TO BE 4 FEET FOR 18" AND LARGER WATER MAINS
 NONE OF THE PIPE IS POLYWRAPPED.
 - FOR PVC PIPE (4") MULTIPLY THE DUCTILE IRON FOOTAGE BY 1.1.
 - ALL EXISTING PIPE SHALL BE RESTRAINED AS NEEDED AT EACH NEW CONNECTION.

PVC PIPE DETAIL



VALVE SETTING



NOTE: NO VALVE SHALL BE SET WITHIN CURB

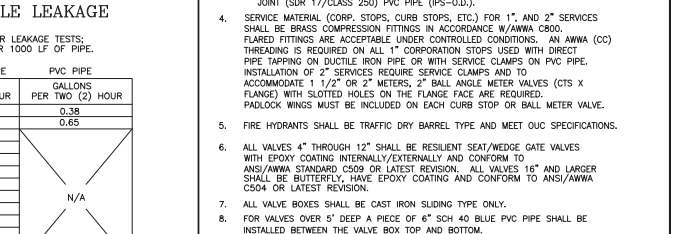
GENERAL SPECIFICATIONS

- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE IN-HAND BEFORE BEGINNING ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, TEMPORARY DISRUPTION OF SERVICE, OR CLARIFICATION OF ACTIVITY REGARDING UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES OR UTILITIES FROM CONSTRUCTION OF WATER FACILITIES. CONTRACTOR SHALL COORDINATE ANY NECESSARY ADJUSTMENTS AND COOPERATE WITH THE OWNERS.
- ANY DELAY OR INCONVENIENCE OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- ALL CONSTRUCTION OF THE WATER DISTRIBUTION SYSTEM SHALL MEET CURRENT ORLANDO UTILITIES COMMISSION SPECIFICATIONS FOR MATERIAL, INSTALLATION, AND DISINFECTION. ALL MATERIAL AND EQUIPMENT SHALL BE STORED, INSTALLED, AND USED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- WATER MAIN SEPARATION FROM SEWER, STORM, AND RECLAIM LINES WILL BE IN COMPLIANCE WITH FDEP GUIDELINES.
- THE MINIMUM SEPARATION REQUIREMENTS FROM SANITARY FORCE MAINS, SANITARY SEWER, AND RECLAIM LINES SHALL BE AS FOLLOWS:
 A. MINIMUM OF 18" SEPARATION FROM BUILDINGS AND STRUCTURES IS REQUIRED.
 B. MINIMUM OF 12" SEPARATION FROM SANITARY FORCE MAINS, SANITARY SEWER, AND RECLAIM LINES IS REQUIRED.
 C. ALL CONDUIT TO BE A MINIMUM 2' FROM ALL WATER MAINS, AND APURTENANCES.
 D. THE RECLAIM WATER MAIN SHALL BE ON THE OPPOSITE SIDE OF THE STREET FROM THE POTABLE WATER MAIN WHERE PRACTICAL. IF IT IS NOT PRACTICAL, THE RECLAIM WATER MAIN SHALL BE INSTALLED AT A MINIMUM HORIZONTAL DISTANCE OF 3 FEET (EDGE TO EDGE) FROM THE POTABLE WATER MAIN.
 E. RECLAIMED WATER MAINS SHALL BE BELOW POTABLE WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF 12".
- ALL HYDROSTATIC TESTING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C600 FOR D.I. PIPE AND ANSI/AWWA C900 FOR PVC PIPE.
- PROVISIONS ARE REQUIRED TO PROTECT EXISTING ACTIVE WATER MAINS FROM BACKFLOW CONTAMINATION DURING FILLING, FLUSHING, TESTING, AND MAINTAINING A PRESSURE IN THE NEW PIPING UNTIL A DEEP LETTER OF CLEARANCE IS OBTAINED.
- THE DISINFECTION OF WATER MAINS SHALL BE IN COMPLIANCE WITH RULES OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION - CHAPTER 62-555 "PERMITTING AND CONSTRUCTION OF PUBLIC WATER SYSTEMS".
- CROSS CONNECTION CONTROL SHALL BE IN ACCORDANCE WITH RULES AND REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION - CHAPTER 62-555 "PERMITTING AND CONSTRUCTION OF PUBLIC WATER SYSTEMS".
- BACKFLOW PREVENTERS SHALL BE LOCATED NO MORE THAN 10 FEET FROM POINT OF SERVICE UNLESS PRIOR APPROVAL HAS BEEN RECEIVED FROM OUC CROSS CONNECTION CONTROL DEPT.
- ALL PIPE WITH DIAMETER OF 12" OR LESS SHALL HAVE A MINIMUM BURIAL DEPTH OF 36" AND ALL PIPE WITH DIAMETER OF 18" OR GREATER SHALL HAVE A MINIMUM BURIAL DEPTH OF 48" AND NOT EXCEED 60" DEEP UNLESS APPROVED BY O.U.C.
- A PRE-CONSTRUCTION MEETING FOR THE INSTALLATION OF WATER FACILITIES IS REQUIRED. CONTACT: OUC WATER CONSTRUCTION 407-434-2535.
- ON NEWLY INSTALLED PIPE, ONLY ONE (1) REPAIR EVERY EIGHT-HUNDRED (800)' FEET WILL BE PERMITTED. IF MORE THAN ONE REPAIR IS NECESSARY, THE PIPE WILL NEED TO BE REINSTALLED PER OUC STANDARDS. REPAIRS ARE TO BE MADE USING A MECHANICALLY RESTRAINED SLEEVE. BRASS CLAMPS ARE NOT TO BE USED. ANY OTHER METHODS MUST BE APPROVED BY THE OUC ENGINEER.
- ALL TAPS ON ACTIVE WATER MAINS SHALL BE PERFORMED BY AN OUC APPROVED TAPPING CONTRACTOR.
- ALL OUC OWNED SERVICES ASSEMBLIES SHALL HAVE A MINIMUM OF 10' SEPARATION FROM STRUCTURES AND TREES.
- THE CONNECTION OF GROUNDING SYSTEMS FOR NEW OR RENOVATION CONSTRUCTION TO OUC WATER SYSTEM FACILITIES IS PROHIBITED.

GENERAL MATERIAL SPECIFICATIONS

- MATERIAL USED IN THE CONSTRUCTION OF THE WATER DISTRIBUTION SYSTEM SHALL ADHERE TO THE REQUIREMENTS OUTLINED IN THE OUC WATER DISTRIBUTION'S SPECIFICATION STANDARDS MANUAL. THE FOLLOWING INFORMATION IS TO PROVIDE GENERAL GUIDANCE IN THE PREPARATION OF CONSTRUCTION PLANS AND SPECIFICATIONS, AND IN NO WAY LIMITS OUC'S RIGHTS TO APPROVE OR DISAPPROVE PLANS, SPECIFICATIONS OF INSTALLATIONS. MOST CENTRAL FLORIDA UTILITY SUPPLY COMPANIES HAVE A COPY OF OUC'S SPECIFICATION STANDARDS MANUAL.
- THE TYPICAL O.U.C. DISTRIBUTION SYSTEM PIPE SIZES AND MATERIAL USED ARE:
 • TWO INCH (2") WATER MAINS SHALL BE ASTM 2241 CLASS 200 SDR21 POLYVINYL CHLORIDE (PVC) PIPE.
 • TWO INCH (2") WATER MAIN UNDER ROADWAY REQUIRES 2" RESTRAINT JOINT SDR 17/CLASS 250 PIPE.
 • FOUR INCH (4") WATER MAINS SHALL BE EITHER PRESSURE CLASS 350 DUCTILE IRON (D.I.) IN ACCORDANCE WITH ANSI/AWWA C150/A21.50-96 AND ANSI/AWWA C151/A21.51 OR, AS CONDITIONS WARRANT, C300 SDR18 CLASS 150 PVC PIPE.
 • SIX INCH (6") THROUGH TWENTY FOUR INCH (24") WATER MAINS SHALL BE PRESSURE CLASS 350 D.I. PIPE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51.
 • THIRTY INCH (30") AND LARGER WATER MAINS SHALL BE PRESSURE CLASS 250 D.I. PIPE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND ANSI/AWWA C151/A21.51.
 - THE USE OF 2" AND/OR 4" PVC PIPE MUST BE APPROVED BY O.U.C. WATER ENGINEERING.
 - PVC PIPE MUST BE BLUE IN COLOR OR HAVING CONTINUOUS BLUE MARKINGS TO CONFORM TO AWWA C900S WITH NSF LOGO FOR POTABLE WATER USE.
 - DUCTILE IRON POTABLE WATER MAINS REQUIRE SPECIAL IDENTIFICATION. SUCH IDENTIFICATION SHALL INCLUDE A MINIMUM OF 4 CONTINUOUS STRIPES SPACED AT NO MORE THAN 8" FROM EACH OTHER. THE STRIPES SHALL BE A MINIMUM TWO INCHES IN WIDTH FOR PIPE 4"-12" IN DIAMETER AND FOUR (4) INCHES IN WIDTH FOR LARGER PIPE. THE STRIPES SHALL BE BLUE IN COLOR. STRIPES SHALL NOT BE PLACED FOR AT LEAST 30 MINUTES FOLLOWING PAINT APPLICATION.
 - ALL PIPE FITTINGS 4" UP TO 30" SHALL BE CEMENT OR EPOXY LINED (CLASS 350) AWWA C900 "COMPACT" DUCTILE IRON, WITH MECHANICAL JOINT ENDS. ALL PIPE FITTINGS 36" OR LARGER SHALL BE CEMENT LINED (CLASS 250) DUCTILE IRON, WITH MECHANICAL JOINT ENDS.
 - A SERVICE MATERIAL FOR AND 1" SHALL INCLUDE SOFT ANNEALED TYPE-K COPPER TUBING.
 - SERVICE MATERIAL FOR 2" SHORT SIDE SERVICES SHALL INCLUDE 2" CTS TYPE-K HARD COPPER PIPE.
 - SERVICE MATERIAL FOR 2" LONG SIDE SERVICES SHALL INCLUDE 2" RESTRAINT JOINT SDR 17/CLASS 250 PVC PIPE (PS-10).
 - SERVICE MATERIAL (CORP. STOPS, CURB STOPS, ETC.) FOR 1" AND 2" SERVICES SHALL BE BRASS COMPRESSION FITTINGS IN ACCORDANCE WITH AWWA C800. FLARED FITTINGS ARE ACCEPTABLE UNDER CONTROLLED CONDITIONS. AN AWWA (CC) THREADING IS REQUIRED ON ALL 1" CORPORATION STOPS USED WITH DIRECT PIPE TAPPING ON DUCTILE IRON PIPE OR WITH SERVICE CLAMPS ON PVC PIPE. INSTALLATION OF 2" SERVICES REQUIRE SERVICE CLAMPS AND TO ACCOMMODATE 1 1/2" OR 2" METERS, 2" BALL ANGLE METER VALVES (CTS X FLANGE) WITH SLOTTED HOLES ON THE FLANGE FACE ARE REQUIRED. PADLOCK WINGS MUST BE INCLUDED ON EACH CURB STOP OR BALL METER VALVE.
 - ALL VALVES 4" THROUGH 12" SHALL BE RESILIENT SEAT/WEDGE GATE VALVES WITH EPOXY COATING INTERNALLY/EXTERNALLY AND CONFORM TO ANSI/AWWA STANDARD C509 OR LATEST REVISION. ALL VALVES 16" AND LARGER SHALL BE BUTTERFLY, HAVE EPOXY COATING AND CONFORM TO ANSI/AWWA C504 OR LATEST REVISION.
 - VALVE BOXES SHALL BE CAST IRON SLUBING TYPE ONLY.
 - FOR VALVES OVER 5' DEEP A PIECE OF 6" SCH 40 BLUE PVC PIPE SHALL BE INSTALLED BETWEEN THE VALVE BOX TOP AND BOTTOM.

FIRE HYDRANT ASSEMBLY



NO HYDRANT RISERS WILL BE PERMITTED ON NEWLY INSTALLED FIRE HYDRANTS.

MAXIMUM ALLOWABLE LEAKAGE

NOTE: 150 PSI TESTING, 2 HOUR LEAKAGE TESTS. MAXIMUM LEAKAGE ALLOWED PER 1000 LF OF PIPE.

PIPE SIZE	GALLONS PER TWO (2) HOUR	
	DUCTILE IRON PIPE	PVC PIPE
2"	0.42	0.38
4"	0.72	0.65
6"	1.10	
8"	1.48	
10"	1.84	
12"	2.20	
16"	2.84	
20"	3.68	
24"	4.42	N/A
30"	5.52	
36"	6.62	
42"	7.73	
48"	8.83	

NOTE: ANY PIPE LENGTH EQUAL TO OR LESS THEN 300' SHALL HAVE 0 LEAKAGE



ALDO E. MEJIAS
P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

UTILITY DETAILS 3

ATTENTION:
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SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT NO. 2019.0099.15

ORLANDO UTILITIES COMMISSION WATER BUSINESS UNIT

WATER DETAIL SHEET
INSTALLATION INSTRUCTIONS

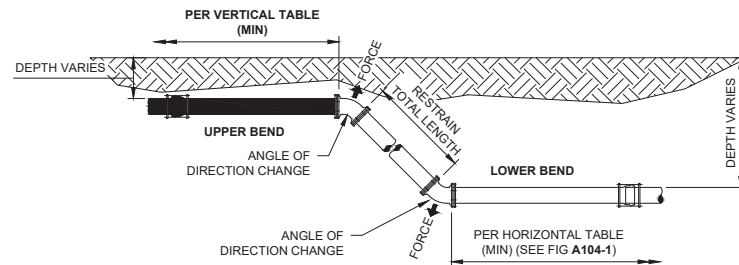
FILE NO. 150212-001
DATE 12/06/2012 S.D.
SCALE: A.S.
REV. NO. 1
DATE 08/30/2022
SCALE: A.S.
REV. NO. 1

OCU GENERAL NOTES

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO, WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9798.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 UTILITIES SCHEDULE OF NOTIFICATIONS IN THIS MANUAL.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE STANDARDS, CONSTRUCTION SPECIFICATIONS, AND APPENDIX D IN THIS MANUAL.
6. ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO, WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, POLES AND STAYS, CABLE TV AND OTHER UTILITY FACILITIES WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO, PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS.
8. ONLY OCU PERSONNEL SHALL OPERATE EXISTING OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
9. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
10. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND / OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAUL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
11. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
12. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
13. FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
14. FOR DIP PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
15. FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
16. ALL DAMAGE TO ORANGE COUNTY INFRASTRUCTURE, PIPELINES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH AN APPROVED METHOD BY THE COUNTY. IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
17. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS.

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

RESTRAINED VERTICAL PIPE - WATER, WASTEWATER FORCE, & RECLAIMED WATER MAINS (150 PSI)



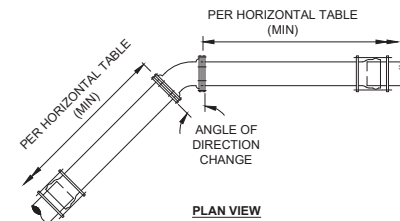
PROFILE VIEW

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)		PVC AND DUCTILE IRON PIPE SIZE (IN)													
		4	6	8	12	16	20	24	30	36	42	48	54	60	64
VERTICAL (UPPER)	90° BEND	43	59	78	109	139	167	277	330	415	424	465	506	529	551
	45° BEND	18	25	32	45	58	69	115	137	172	176	193	210	219	229
	22-1/2° BEND	9	12	16	22	28	34	56	66	83	85	93	101	106	110
	11-1/4° BEND	5	6	8	11	14	17	28	33	41	42	46	50	53	55
	5 5/8" BEND OR MJ SLEEVE	3	3	4	6	7	9	14	17	21	21	23	25	26	28

- NOTES:**
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
 4. ALL INLINE VALVES SHALL BE RESTRAINED.
 5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:
 WORKING PRESSURE: 150 PSI
 SOIL DESIGNATION: SM (SAND SILT)
 LAYING CONDITIONS: 3
 DEPTH OF COVER: 3-FT
 SAFETY FACTOR: 1.5
 THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
 7. 90° BENDS ON VERTICAL PIPE ARE SUBJECT TO REVIEW AND APPROVAL OF UTILITIES.
 8. IF 4-IN THRU 20-IN PIPE IS POLYETHYLENE ENCASED, USE 1.25 MULTIPLIER ON RESTRAINT LENGTH.
 9. RESTRAINING REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED MAINS.

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL
 FIGURE A104-2
 10/10/2021

RESTRAINED HORIZONTAL PIPE - WATER, WASTEWATER FORCE, & RECLAIMED WATER MAINS (150 PSI)



PLAN VIEW

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)		PVC AND DUCTILE IRON PIPE SIZE (IN)													
		4	6	8	12	16	20	24	30	36	42	48	54	60	64
HORIZONTAL	90° BEND	21	29	37	52	65	78	104	122	143	154	167	180	188	195
	45° BEND	9	12	16	22	27	33	43	51	60	64	70	75	78	81
	22-1/2° BEND	5	6	8	11	13	16	21	25	29	31	34	36	38	39
	11-1/4° BEND	2	3	4	6	7	8	11	12	15	16	17	18	19	20
	5 5/8" BEND OR MJ SLEEVE	1	2	2	3	4	4	6	6	8	8	9	9	10	10
	PLUG OR BRANCH OF TEE OR DEAD END	43	59	78	109	139	167	277	330	415	424	465	506	529	551
	VALVE OR LINE STOP	22	30	39	55	70	84	139	165	208	212	233	253	265	276
HDPE CONNECTION	19	26	34	49	62	75	125	151	174	203	223				

- NOTES:**
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
 4. ALL INLINE VALVES SHALL BE RESTRAINED.
 5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:
 WORKING PRESSURE: 150 PSI
 SOIL DESIGNATION: SM (SAND SILT)
 LAYING CONDITIONS: 3
 DEPTH OF COVER: 3-FT
 SAFETY FACTOR: 1.5
 THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.
 7. 90° BENDS ON VERTICAL PIPE ARE SUBJECT TO REVIEW AND APPROVAL OF UTILITIES.
 8. IF 4-IN THRU 20-IN PIPE IS POLYETHYLENE ENCASED, USE 1.25 MULTIPLIER ON RESTRAINT LENGTH.
 9. RESTRAINING REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED MAINS.

ORANGE COUNTY UTILITIES STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL
 FIGURE A104-1
 10/10/2021



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 ENGINEERS & PLANNERS
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 OFFICE: (407) 599-1122 - FAX: (407) 599-1133
 CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
 www.avconinc.com

ALDO E. MEJIAS
 P.E. #76019

HAVEN OAKS

CONSTRUCTION PLANS

UTILITY DETAILS 4

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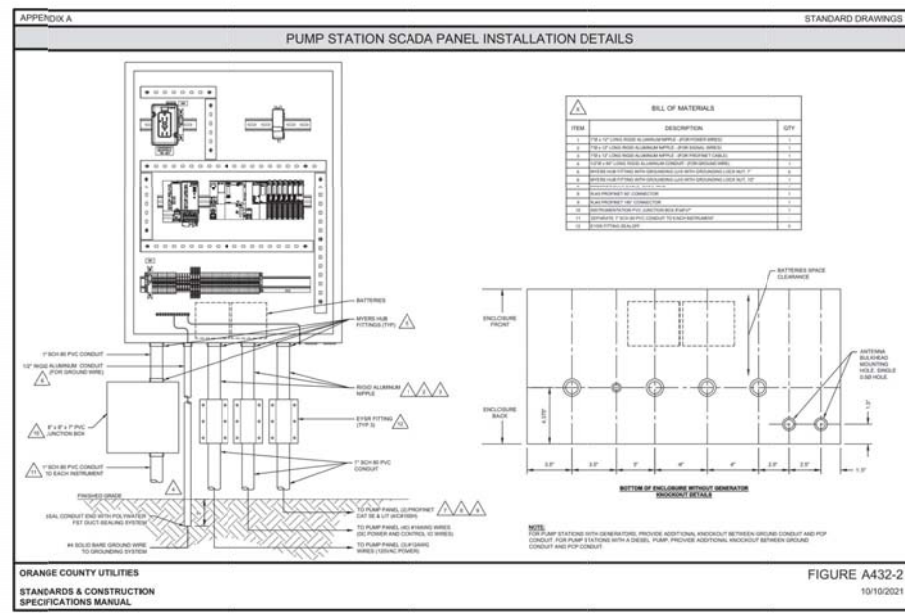
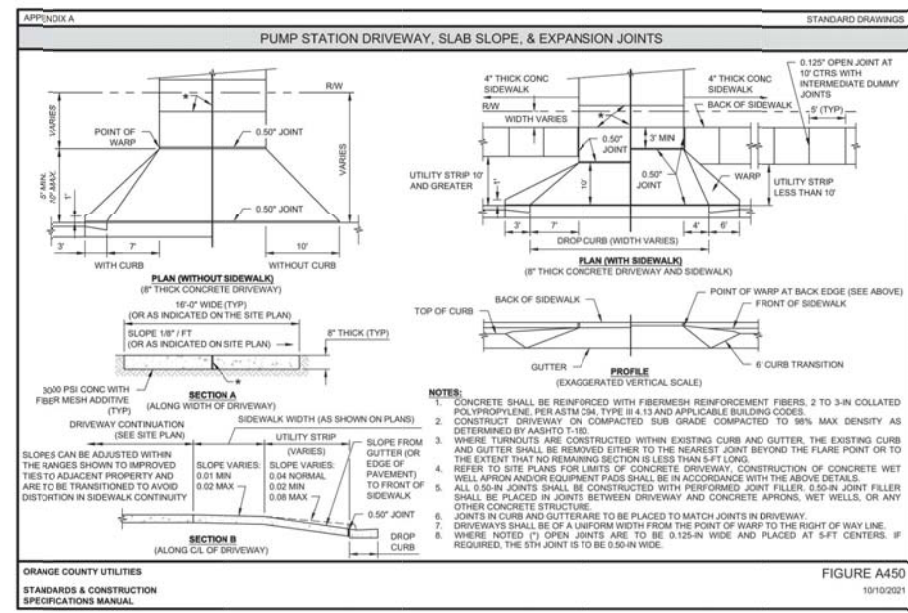
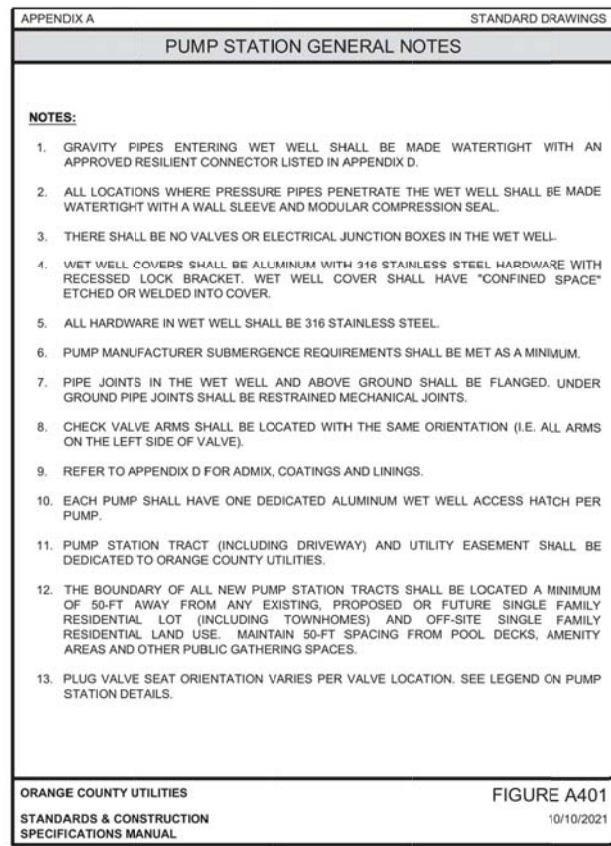
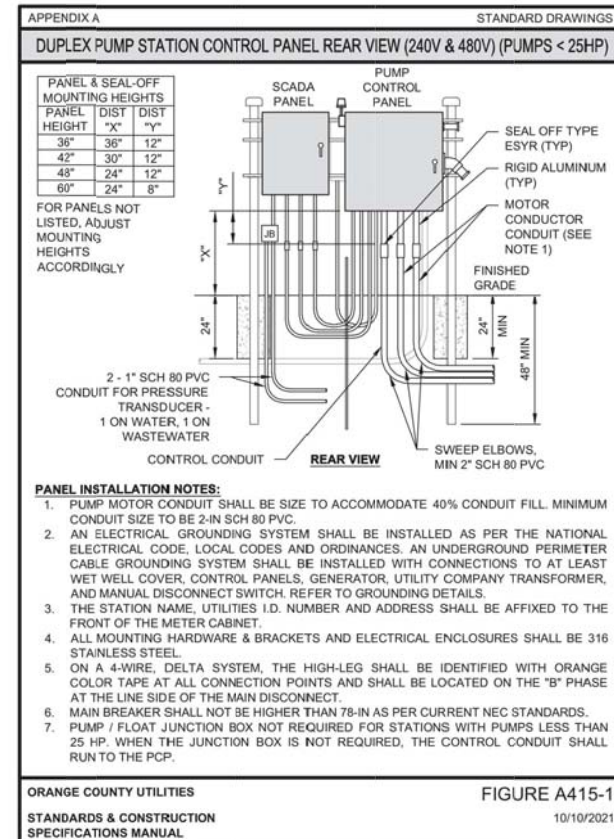
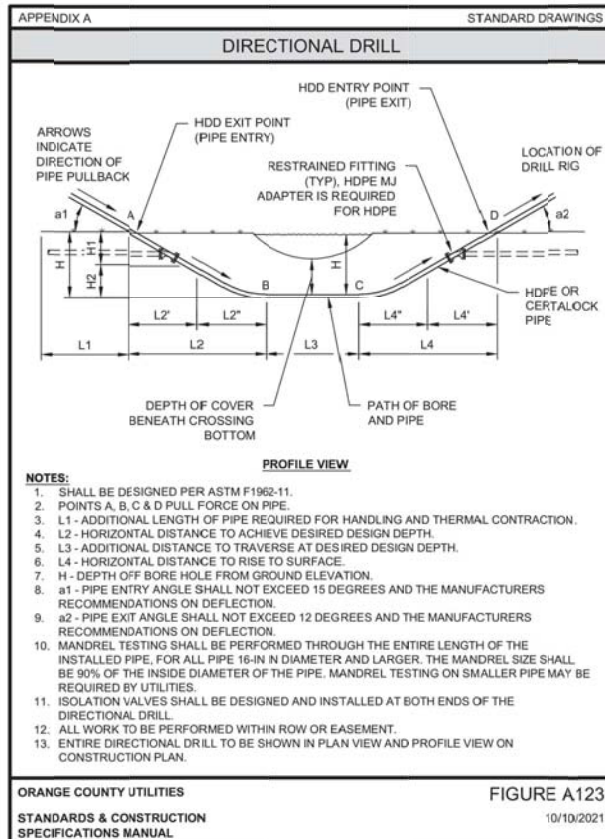
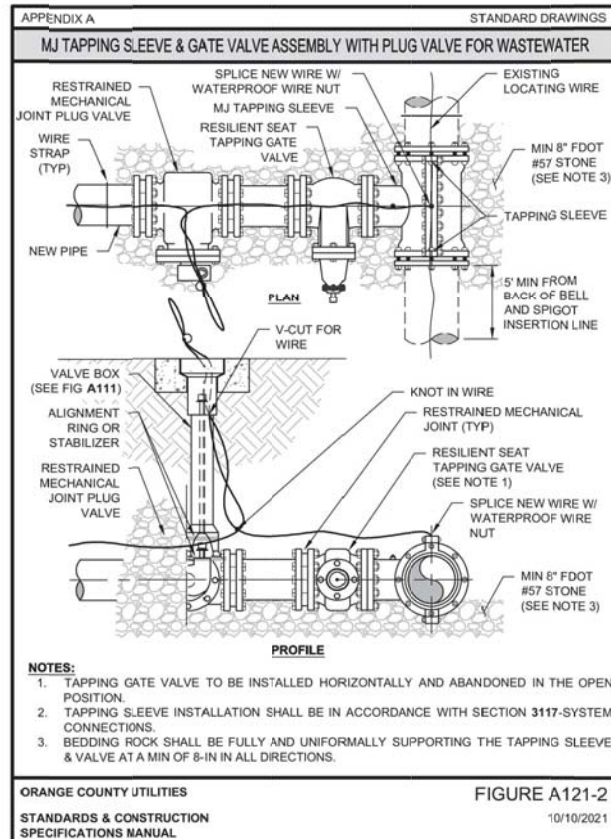
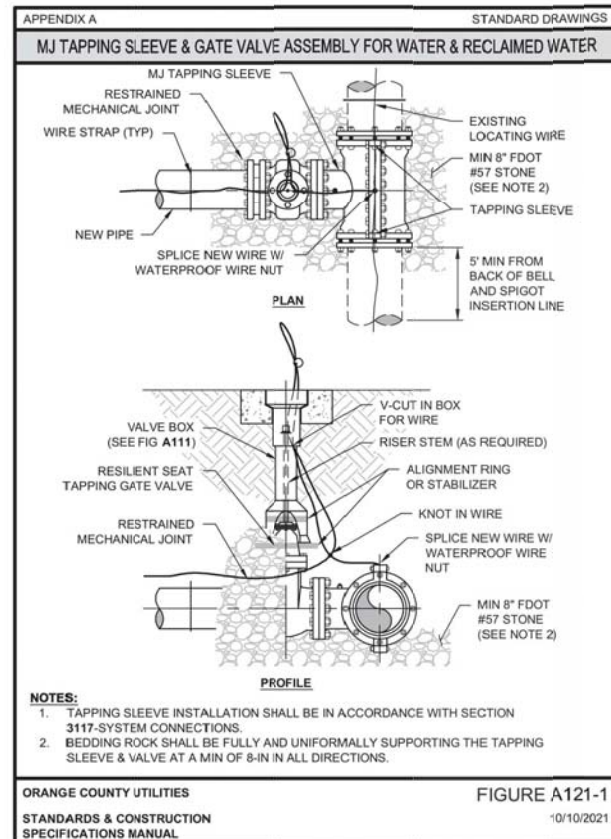
SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	01-13-2022	BRE	CONST PLAN REVISIONS

DESIGNED BY: RVB
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 APPROVED BY: RVB
 DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-407



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HAVEN OAKS

CONSTRUCTION PLANS

UTILITY DETAILS 5

SCALE:

REVISIONS:

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DESIGNED BY: RVB
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APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

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UTILITY DETAILS 6

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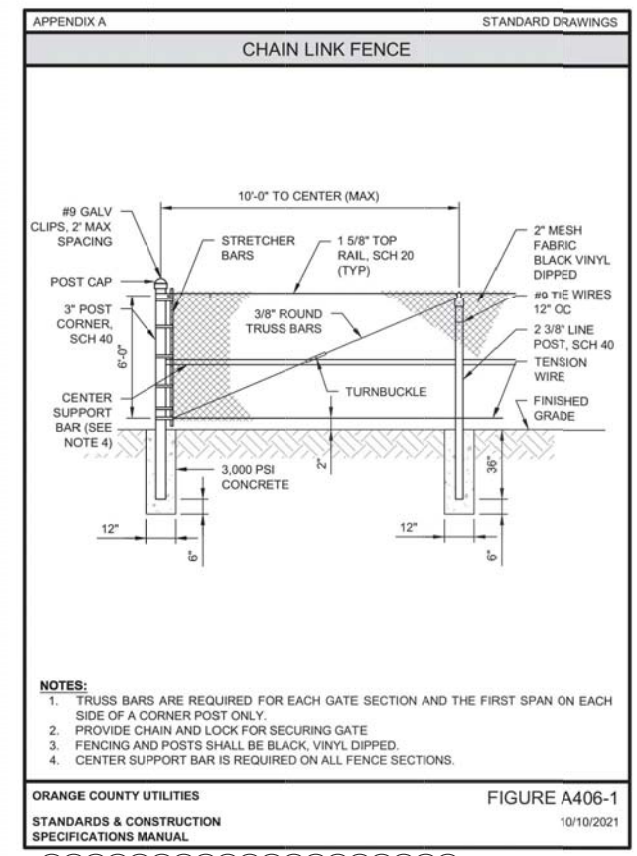
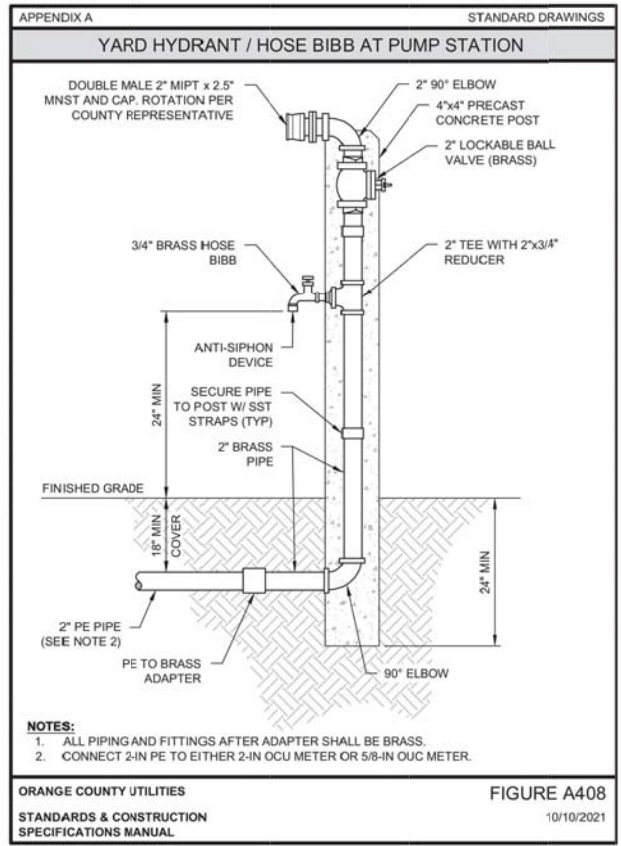
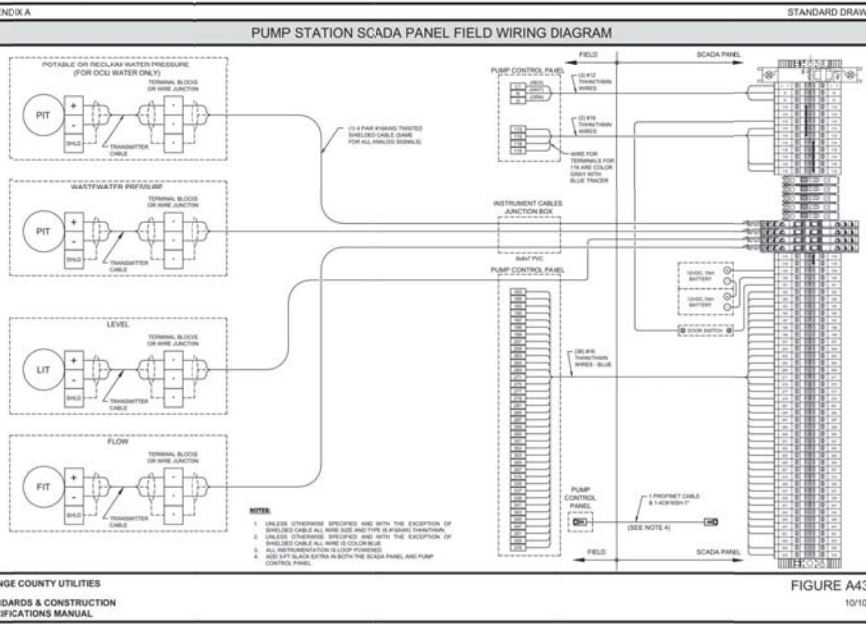
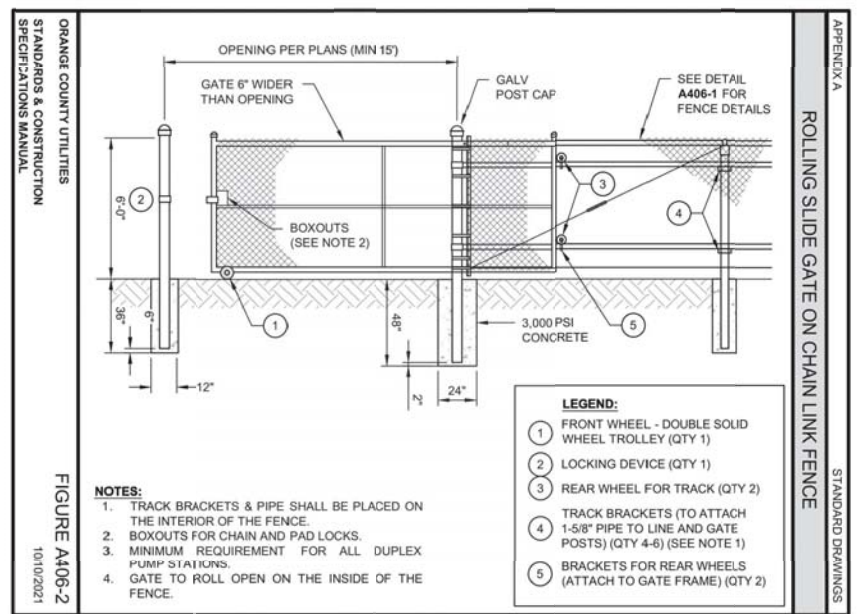
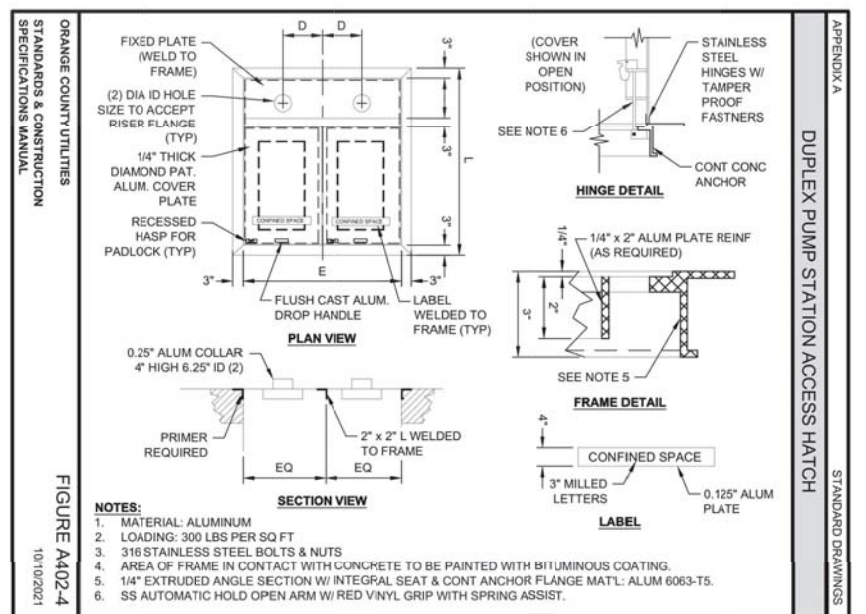
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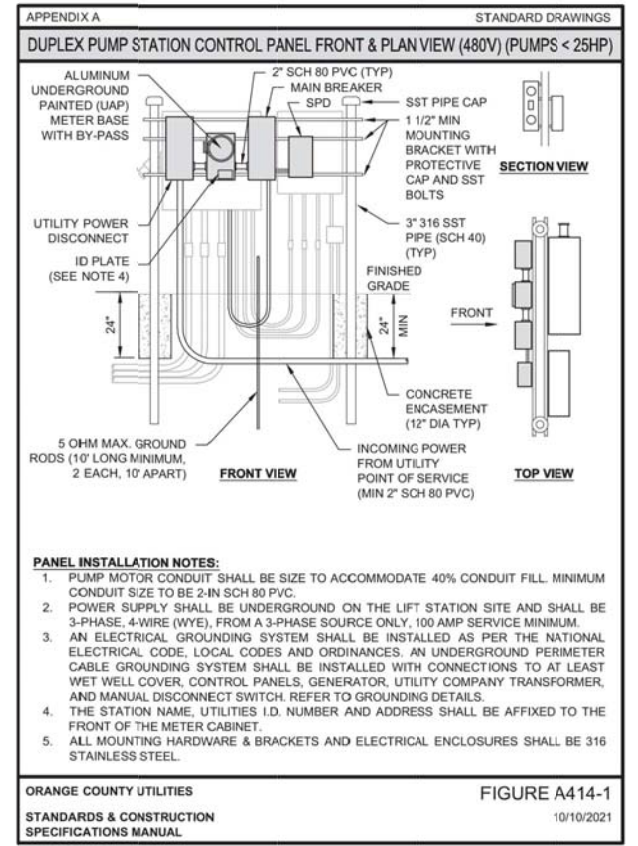
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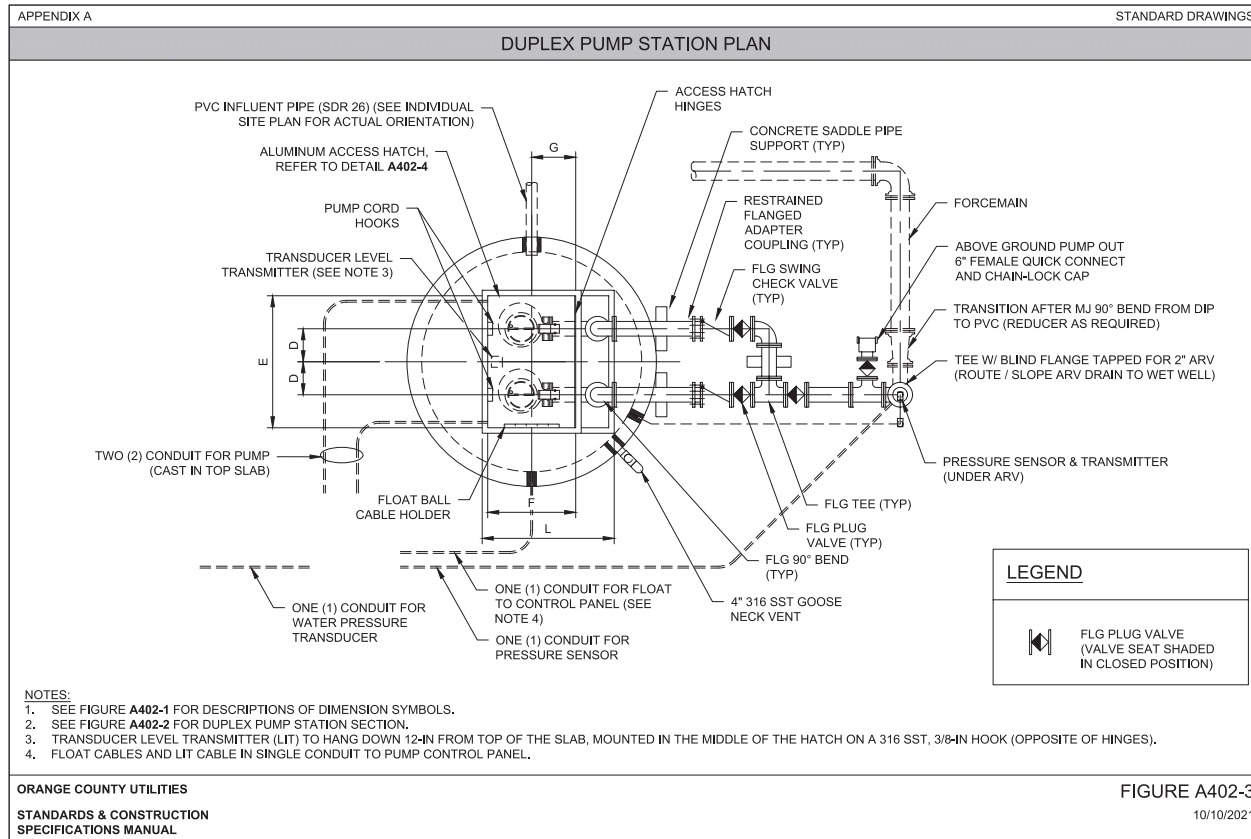
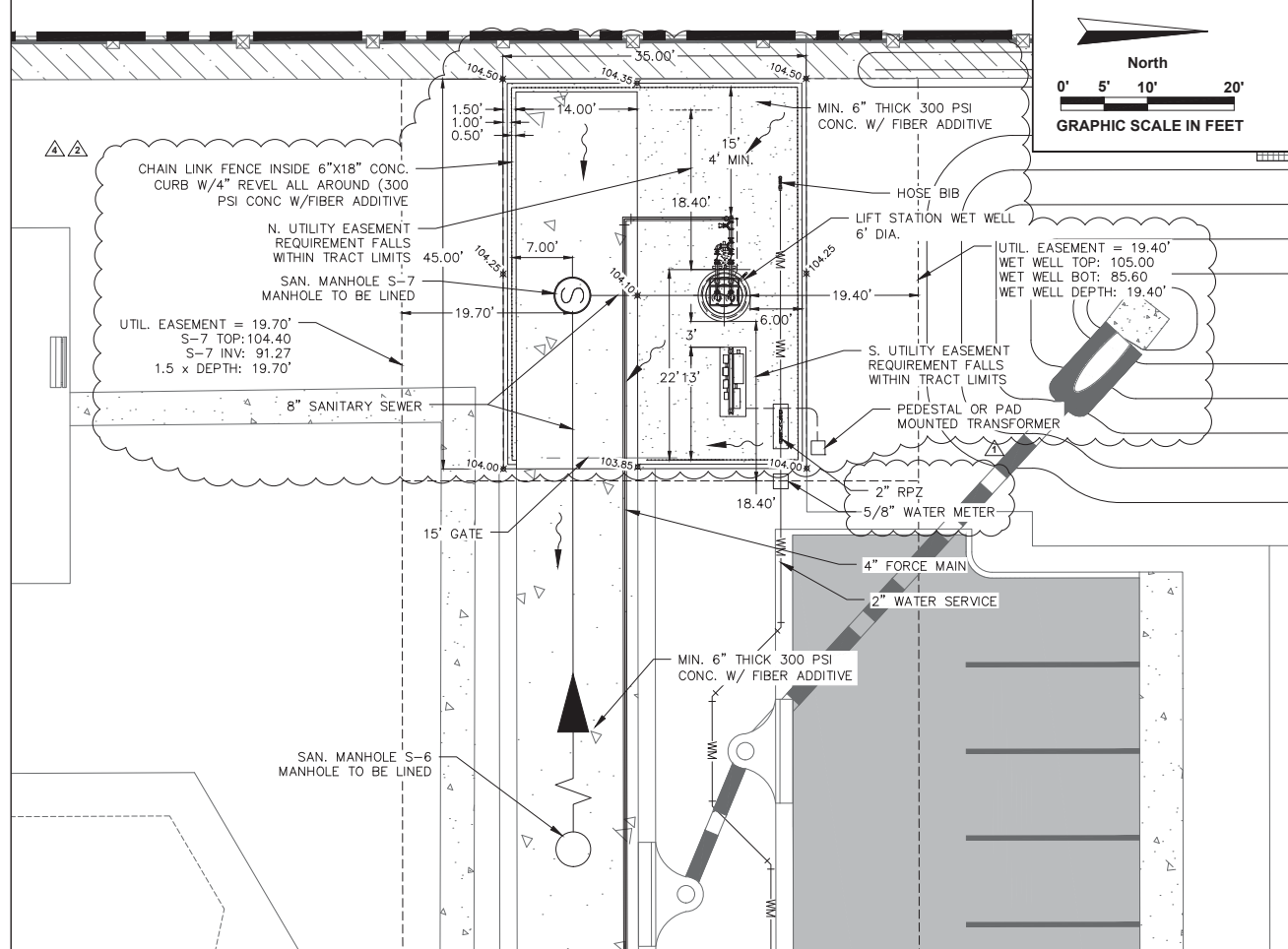
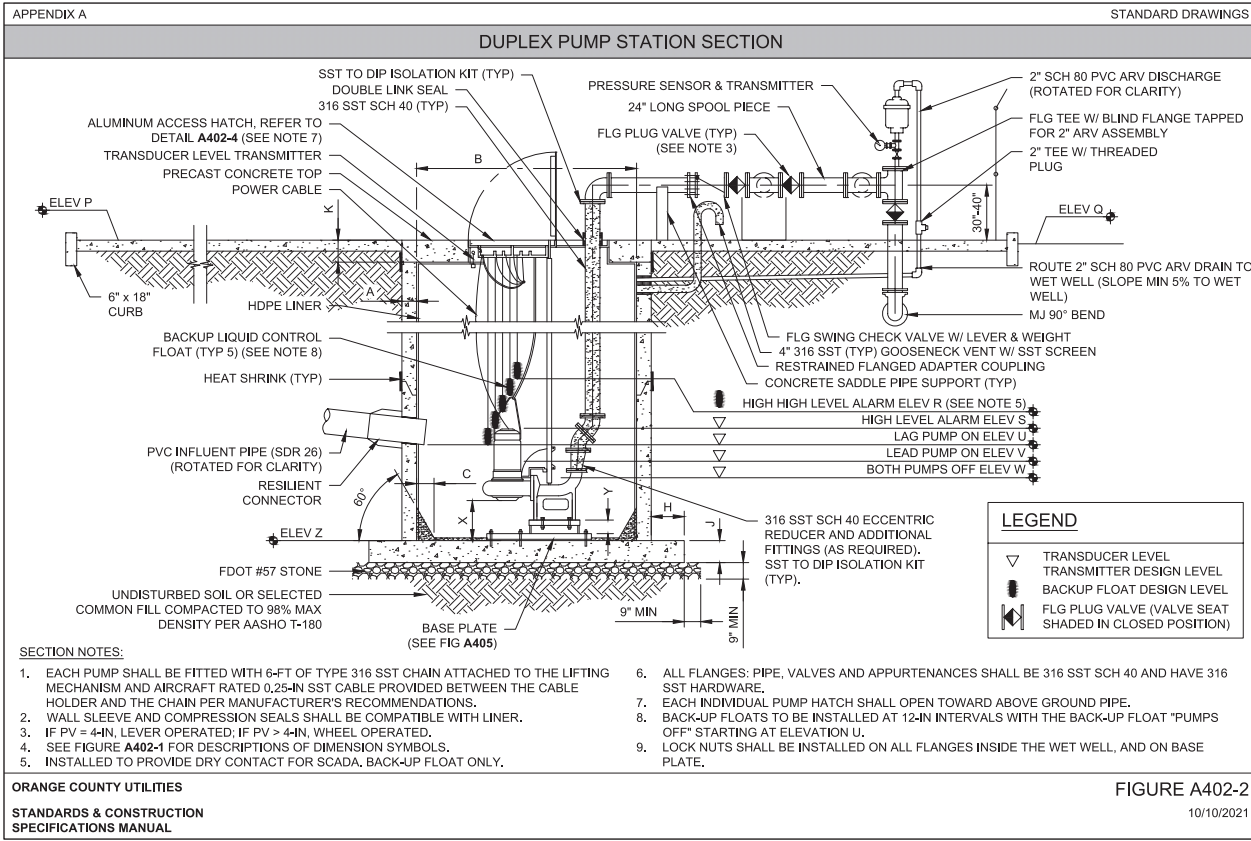
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SHEET NUMBER
C-409



NOTE:
EXPOSED TOP WIRES OF CHAIN LINK FENCE ARE TO BE TURNED IN





APPENDIX A STANDARD DRAWINGS

DUPLEX PUMP STATION DESIGN SPECIFICATIONS

PUMP STATION ID: _____

MANUFACTURER: FLYGT		DESIGN A SPECIFICATIONS		MANUFACTURER: ABS		DESIGN B SPECIFICATIONS	
PUMP MODEL:	NP3153_SH_3	VOLTAGE:	460	PUMP MODEL:		VOLTAGE:	
IMPELLER MODEL:	492	PHASE:	3	IMPELLER MODEL:		PHASE:	
IMPELLER DIAMETER (MM):	276	MOTOR H.P.:	20	IMPELLER DIAMETER (MM):		MOTOR H.P.:	
NOMINAL SPEED (RPM):	1755	MAX. SOLID SIZE (IN):	4	NOMINAL SPEED (RPM):		MAX. SOLID SIZE (IN):	
DISCHARGE SIZE (IN):	4	CURVE NUMBER:	9906	DISCHARGE SIZE (IN):		CURVE NUMBER:	

DESIGN A SPECIFICATIONS:

- PEAK DESIGN INFLOW: 36 GPM
- SHUT OFF HEAD: 30 FEET TDH
- HIGH HEAD CONDITION: 155 GPM AT 121 FEET TDH (DESIGN POINT)
- MINIMUM HEAD CONDITION: 153 GPM AT 120 FEET TDH

DESIGN B SPECIFICATIONS:

- PEAK DESIGN INFLOW: _____ GPM
- SHUT OFF HEAD: _____ FEET TDH
- HIGH HEAD CONDITION: _____ GPM AT _____ FEET TDH (DESIGN POINT)
- MINIMUM HEAD CONDITION: _____ GPM AT _____ FEET TDH

DESCRIPTION	SYMBOL	DIM	DESIGN ELEV *	AS-BUILT ELEV	AS-BUILT DEPTH **	DESIGN A & B SPECIFICATION NOTES
THICKNESS OF WALL	A	8" (MIN)	8'	-	-	1. PER PUMP MANUFACTURER REQUIREMENTS.
DIAMETER OF WET WELL	B	6' (MIN)	6'	-	-	2. DIMENSION X AND ELEVATION Y AND Z MUST MEET BOTH PUMP MFR'S REQUIREMENTS.
WIDTH OF BOTTOM FILLET	C	SEE NOTE 1	-	-	-	3. EL V - EL Z ≥ 5 FEET.
C/L OF WET WELL TO C/L OF PIPES	D	SEE NOTE 1	-	-	-	4. ELEVATION OF HIGH HIGH LEVEL ALARM SHALL BE A MIN OF 12-IN LOWER THAN THE LOWEST MANHOLE LID ELEVATION IN THE UPSTREAM GRAVITY SYSTEM.
LENGTH OF PUMP ACCESS OPENING	E	SEE NOTE 1	-	-	-	5. TOP ELEVATION OF WETWELL SHALL BE A MINIMUM OF 1-FT ABOVE THE 100-YEAR FLOOD ELEVATION AND THE ELEVATION OF THE CROWN OF THE ROAD.
WIDTH OF PUMP ACCESS OPENING	F	SEE NOTE 1	-	-	-	6. PUMP OFF ELEVATION TO BE PER MANUFACTURER'S MINIMUM SUBMERGENCE.
CENTER OF WET WELL TO EDGE OF HATCH	G	SEE NOTE 1	-	-	-	* PROVIDE WET WELL DIMENSIONS SUFFICIENT TO ACCOMMODATE BOTH FLYGT AND ABS PUMP MODELS. THE LARGER / DEEPER OF THE TWO SHALL PREVAIL.
LIP WIDTH OF WET WELL BASE	H	18" (MIN)	18"	-	-	** PROVIDE AS-BUILT DEPTH IN INCHES FROM TOP OF HATCH.
THICKNESS OF WET WELL BASE	J	12" (MIN)	18"	-	-	† POPULATE ELEV S, U, V, AND W WITH TRANSDUCER ELEV AND DEPTHS. THE TRANSDUCER SYSTEM SHALL CONTROL THE OPERATION OF THE PUMPS UNDER NORMAL OPERATING CONDITIONS. THERE SHALL ALSO BE A BACKUP FLOAT CONTROL SYSTEM. ELEV R "HIGH HIGH FLOAT", IS POSITIONED 36-IN ABOVE THE TRANSDUCER AT ELEV S. FOUR (4) ADDITIONAL FLOATS (NOT SHOWN ON THIS DRAWING) HIGH LEVEL, LAG, LEAD AND OFF, WILL BE POSITIONED BELOW THE HIGH HIGH FLOAT AT 12-IN INTERVALS AS SHOWN IN FIG A402-2.
THICKNESS OF WET WELL TOP SLAB	K	12" (MIN)	12"	-	-	
TOP OF WET WELL	P	SEE NOTE 5	106.00			
FINISHED GRADE	Q	PER DESIGN	105.00			
HIGH HIGH LEVEL ALARM (FLOAT ONLY)	R	ELEV S + 36"	95.10			
HIGH LEVEL ALARM †	S	ELEV U + 12"	92.10			
LAG PUMP ON (INFLUENT PIPE INVERT) †	U	ELEV V + 12"	91.10			
LEAD PUMP ON †	V	PER DESIGN	90.10			
PUMPS OFF (SEE NOTE 6) †	W	PER DESIGN	88.85			
BOTTOM OF PUMP	X	SEE NOTE 2				
TOP OF STEP	Y	SEE NOTE 2				
FLOOR OF WET WELL	Z	SEE NOTE 2 & 3	85.60			

ORANGE COUNTY UTILITIES
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A402-1
10/10/2021



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HAVEN OAKS

CONSTRUCTION PLANS

LIFT STATION & DETAILS PLAN

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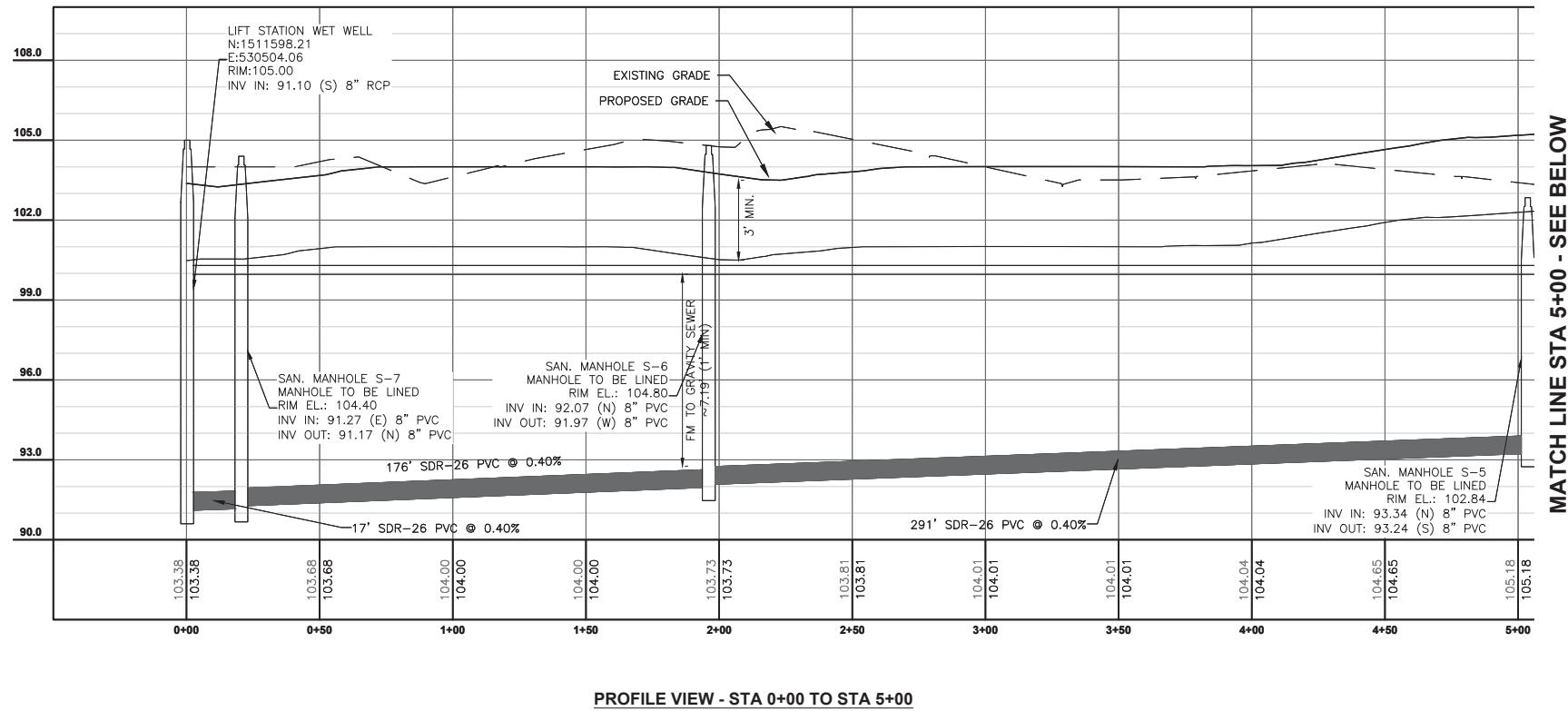
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NO.	DATE	BY	DESCRIPTION
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2	04-22-2022	HS	OCPW RAI #1
3	07-19-2022	BRE	OCU RAI #2
4	07-19-2022	BRE	CITY OF EDGEWOOD REV 2

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

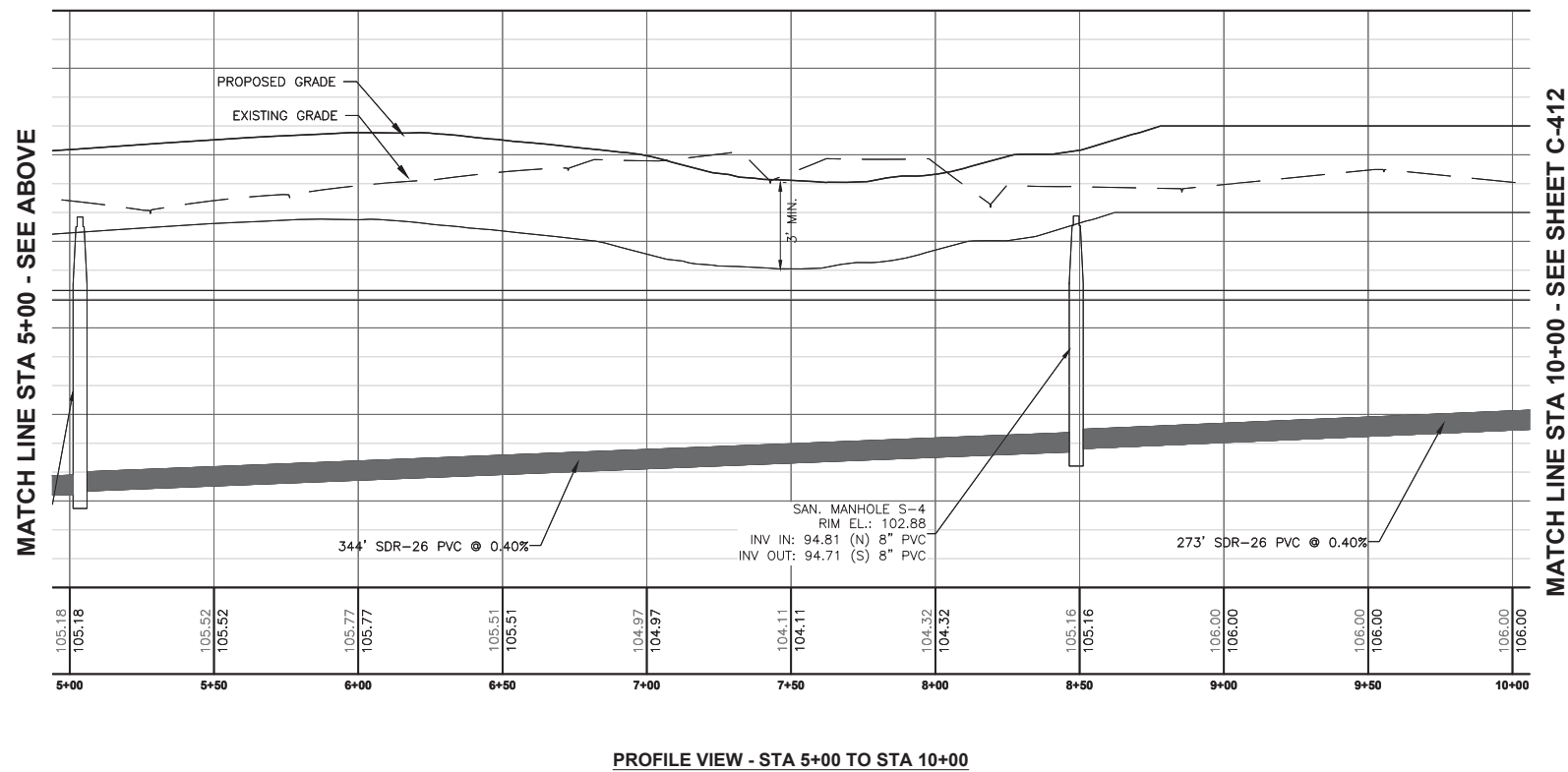
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SHEET NUMBER
C-410



MATCH LINE STA 5+00 - SEE BELOW

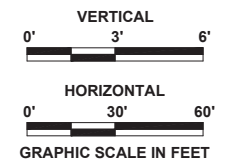
PROFILE VIEW - STA 0+00 TO STA 5+00



MATCH LINE STA 5+00 - SEE ABOVE

MATCH LINE STA 10+00 - SEE SHEET C-412

PROFILE VIEW - STA 5+00 TO STA 10+00



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CONSTRUCTION PLANS

FORCE MAIN PROFILES 1

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DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-411



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FORCE MAIN PROFILES 2

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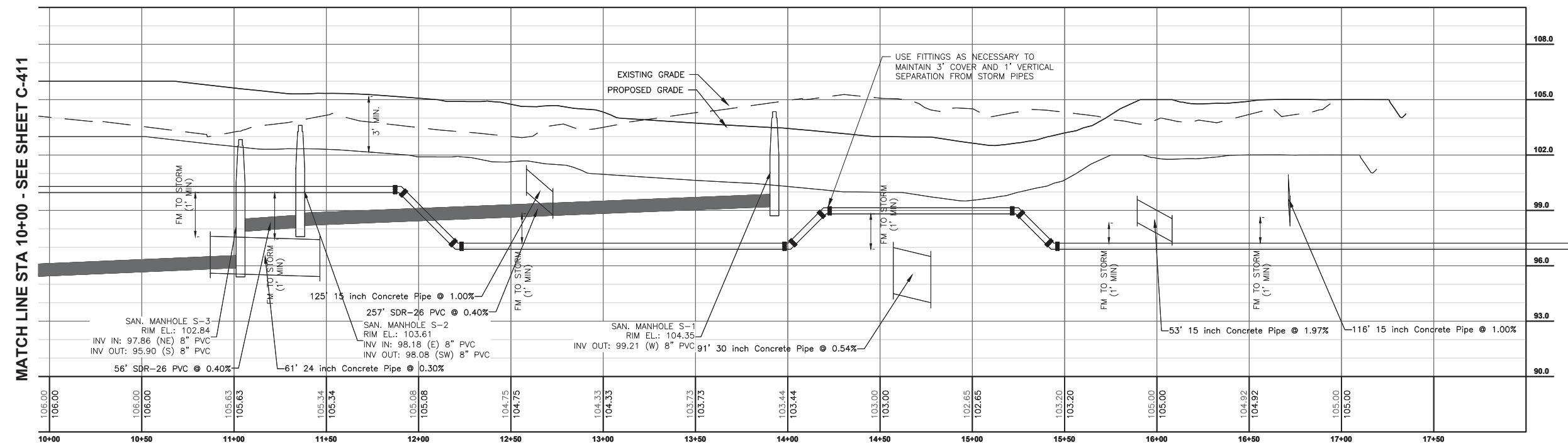
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REVISIONS:			
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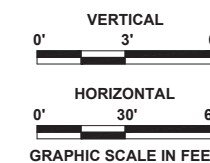
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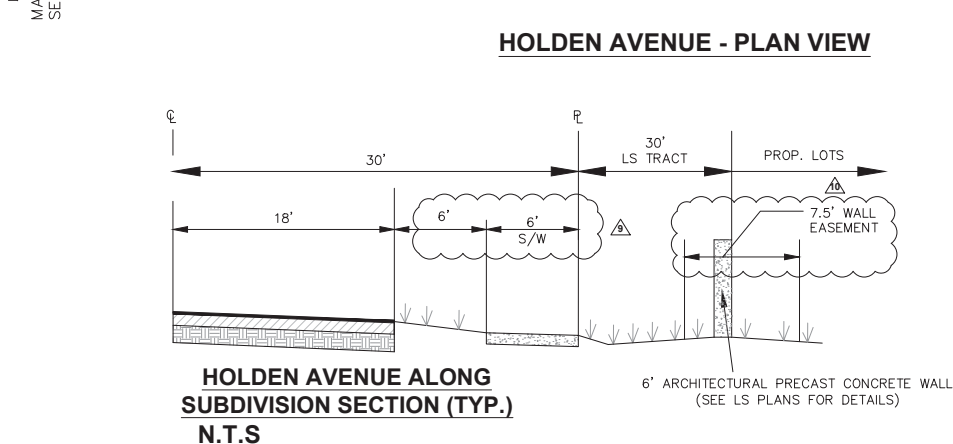
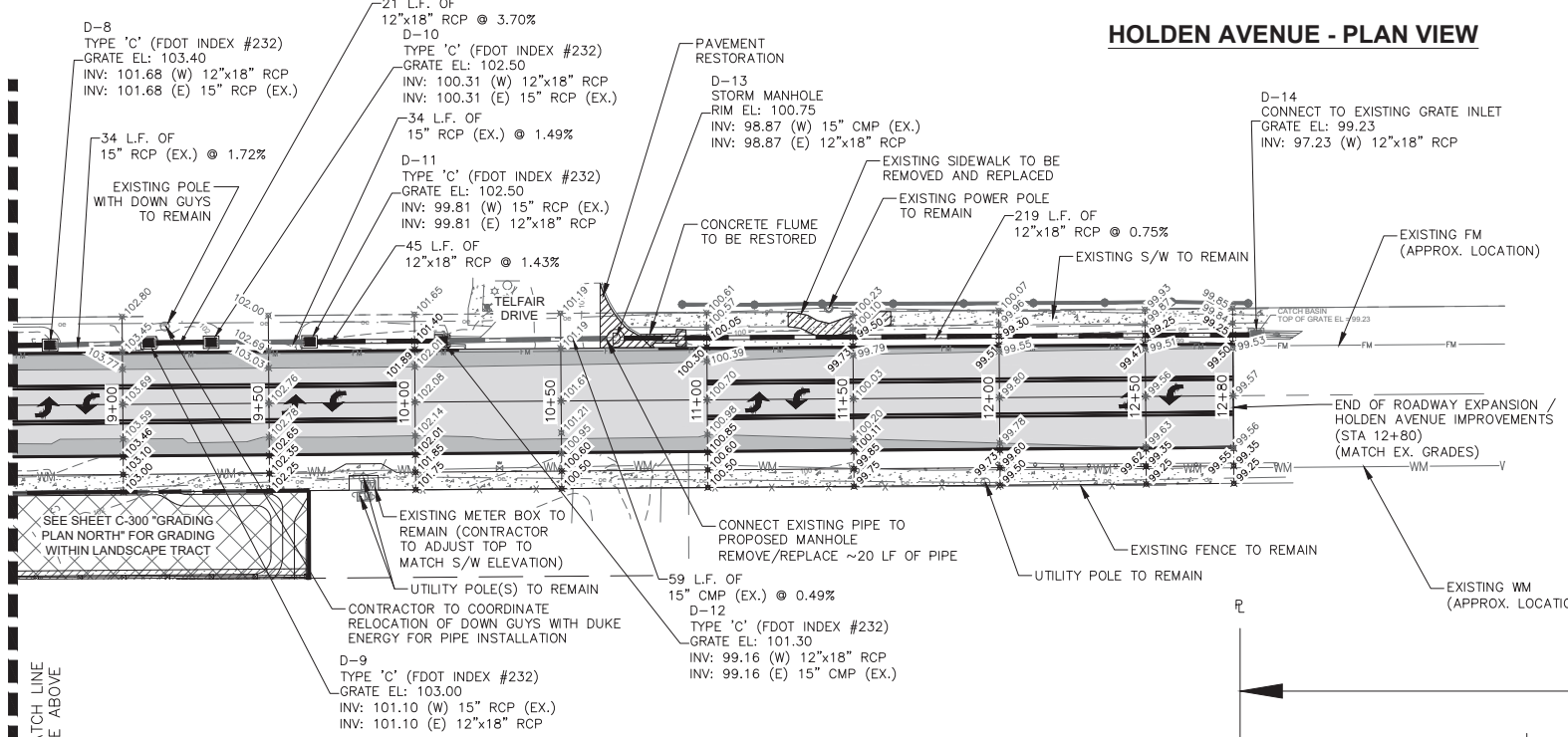
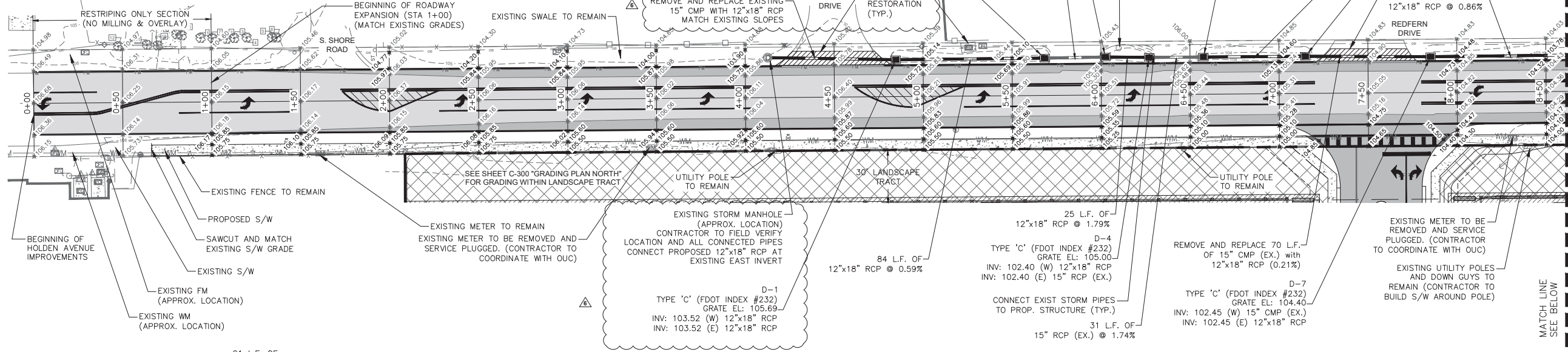
PROFILE VIEW - STA 10+00 TO STA 17+50



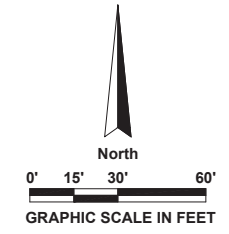
I:\2022\0830\0830-01 - Haven Oaks - Substation - Substation - Force Main Profile - C-412.dwg
 10/2022

NOTES:

- CONTRACTOR SHALL COORDINATE THE RELOCATION OF POWER POLE 'DOWN GUYS' AND ANY OTHER EXISTING UTILITY WITHIN CONSTRUCTION LIMITS WITH UTILITY PROVIDER
- ALL LANES SHALL BE MILLED / RESURFACED ALONG THE LENGTH OF THE PROPOSED IMPROVEMENTS. EXISTING STRIPING SHALL BE REMOVED PRIOR TO PAVING
- CONTRACTOR MUST NOTIFY PROPERTY OWNERS ALONG HOLDEN AVENUE PRIOR TO CONSTRUCTION AND SHALL MAINTAIN ACCESS TO ALL LOTS DURING CONSTRUCTION
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND APPLICATIONS ARE PER THE JULY 2021 FDOT STANDARD PLANS SECTION 711-001
- APPLICATIONS FOR RAISED PAVEMENT MARKERS SHALL BE PER THE JULY 2021 FDOT STANDARD PLANS SECTION 706-001
- A 6' WIDE MINIMUM CLEAR ZONE PER FDOT FDM 215 SHALL BE PROVIDED ALONG THE EXTENTS OF THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY EOR OF ANY OBSTRUCTIONS DISCOVERED WITHIN THE REQUIRED CLEAR ZONE, AND SHALL COORDINATE RELOCATION OR PROTECTION PER FDOT STANDARDS WITH THE OWNERSHIP ENTITY
- CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING 12" FORCE MAIN AND SHALL NOTIFY EOR IF ANY CONFLICT
- EXISTING 12" FORCE MAIN SHOWN ON PLANS WAS LOCATED PER AS-BUILT PLAN PROVIDED BY OCU, PREPARED BY MICHAELS ENGINEERING CO., DATED FEB 1969, JOB NO. 0-6903. PLANS CAN BE PROVIDED UPON REQUEST



HOLDEN AVENUE - PLAN VIEW

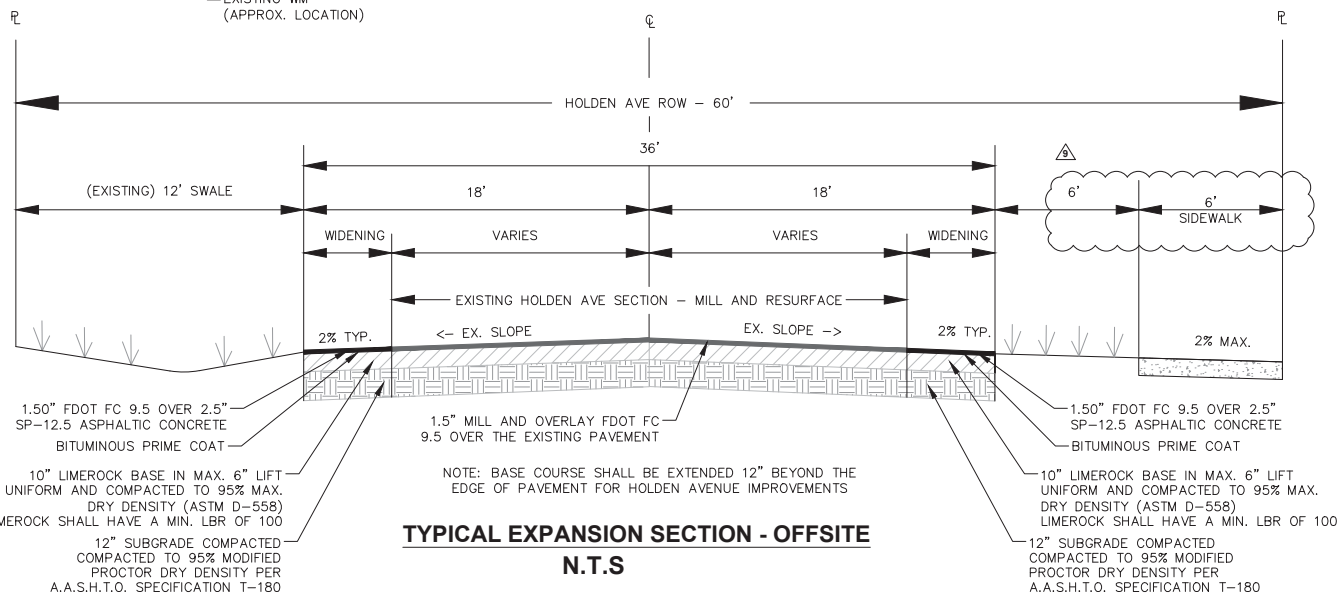


LEGEND

- PROPOSED PAVEMENT / HOLDEN AVE EXPANSION PAVEMENT
- EXISTING HOLDEN AVE. PAVEMENT
- EXISTING ELEVATIONS
- PROPOSED ELEVATIONS

PAVEMENT STRUCTURAL NUMBERS

SECTION	ASPHALT	BASE	SUBGRADE	STRUCTURAL NUMBER
CORE 1	6"	3.5" LIMEROCK	14" STABILIZED	6 * 0.44 + 3.5 * 0.18 + 14 * 0.08 = 4.39
CORE 2	5.5"	5.5" LIMEROCK	12" STABILIZED	5.5 * 0.44 + 5.5 * 0.18 + 12 * 0.08 = 4.37
CORE 3	4"	N/A	14" STABILIZED	4 * 0.44 + 14 * 0.08 = 2.88
PROPOSED SECTION	1.5" FC 9.5 + 2.5" SP 12.5	10" LIMEROCK	12" STABILIZED	4 * 0.44 + 10 * 0.18 + 12 * 0.08 = 4.62



CITY OF EDGEWOOD
Zoning Plans Review
 By **Brett Sollazzo** Date **11/21/2022**
 Approved Rejected
 Hold on Certificate of Occupancy?
 Yes No



AVCON, INC.
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CONSTRUCTION PLANS

OFFSITE PLAN

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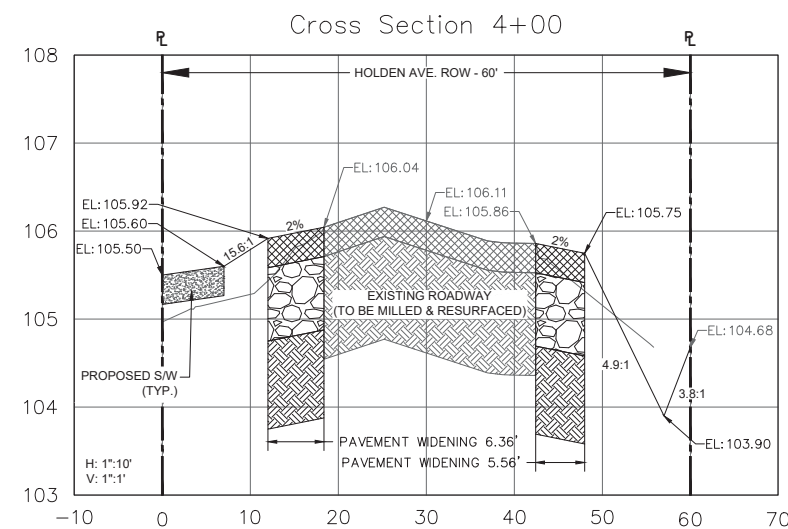
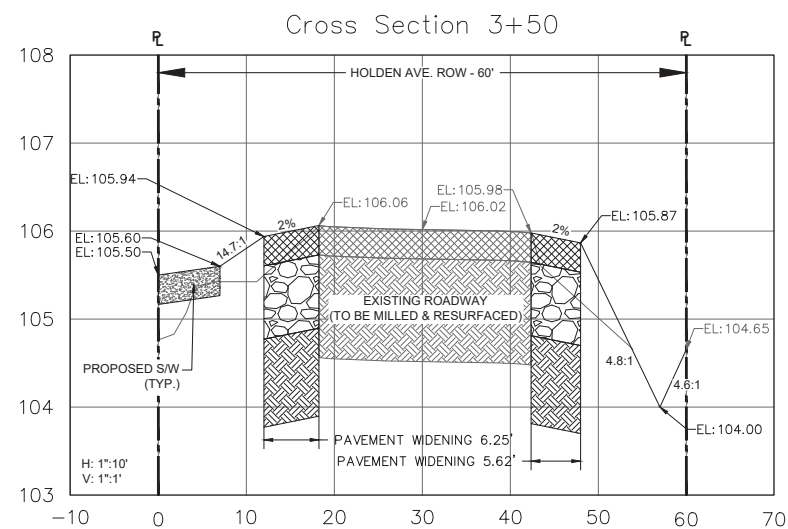
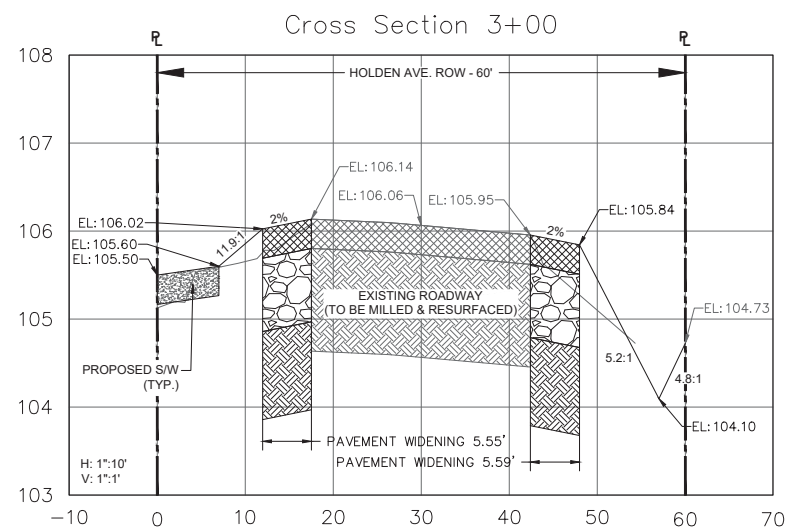
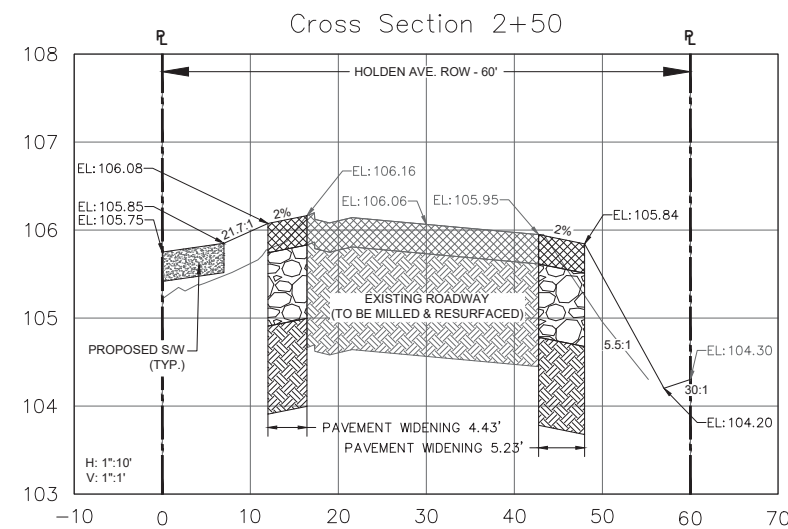
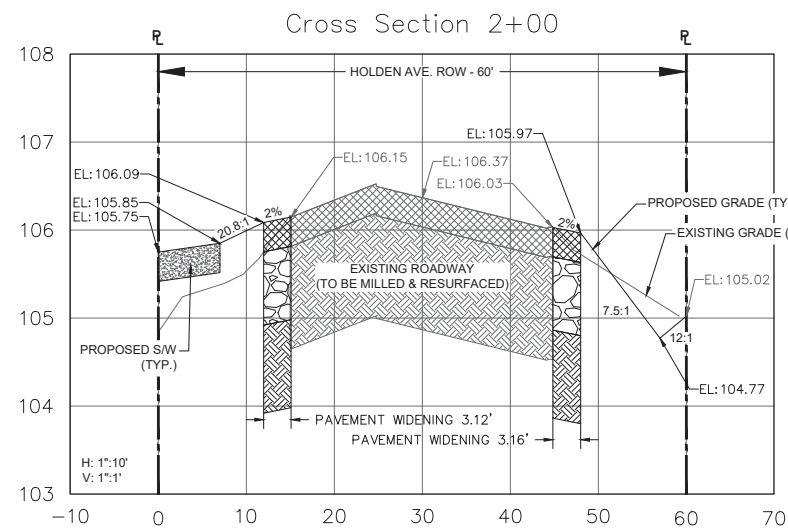
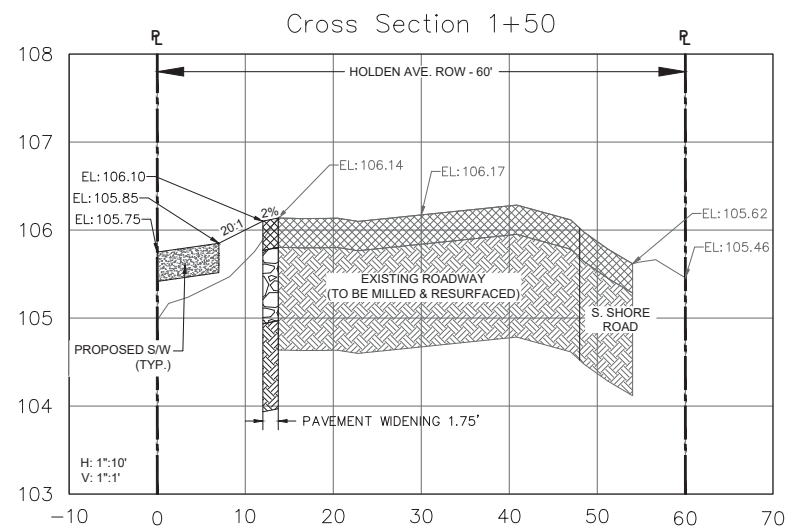
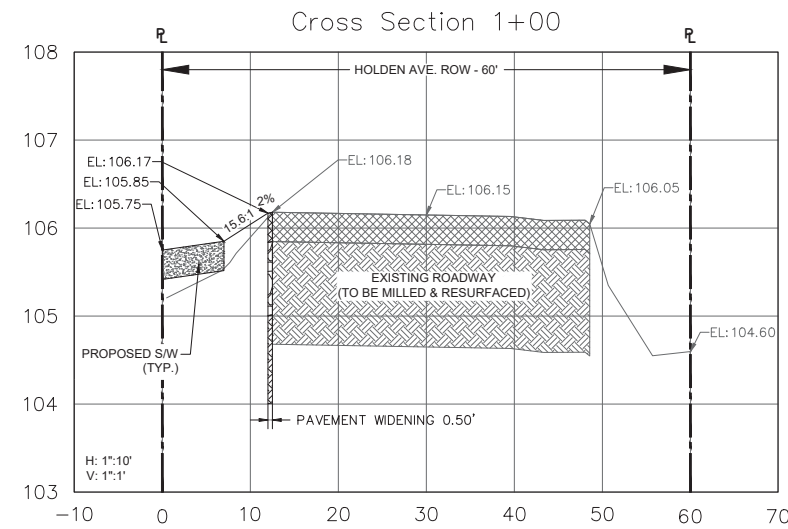
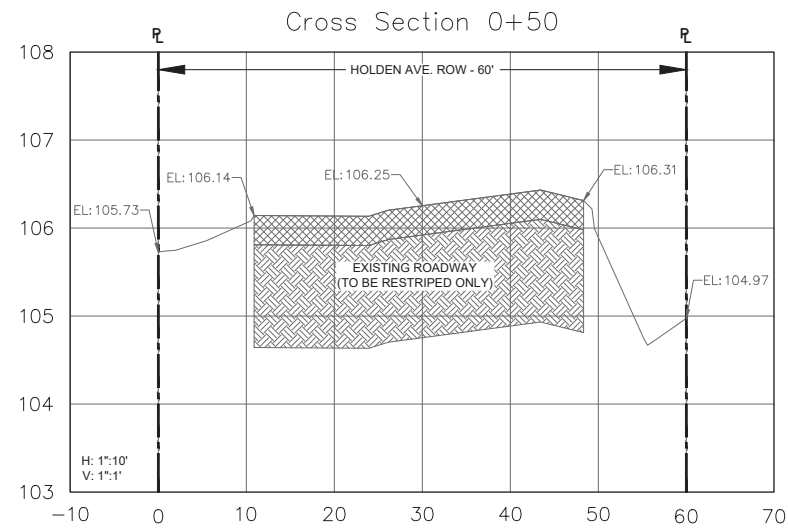
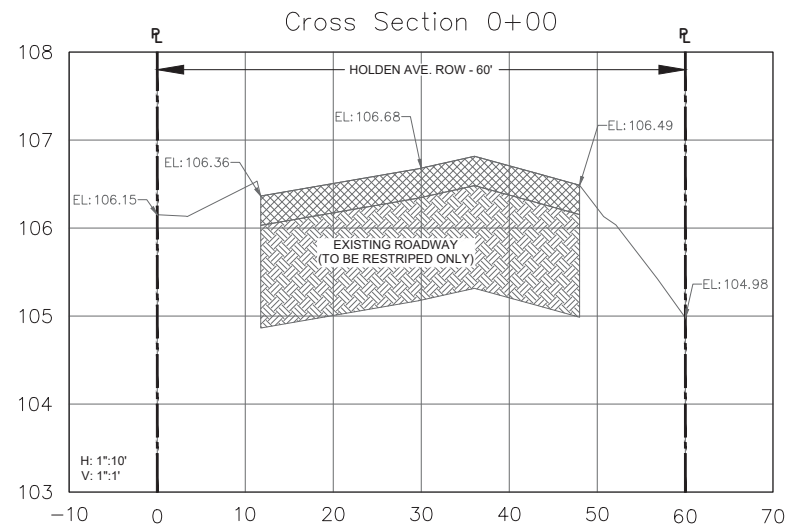
REVISIONS:

NO.	DATE	BY	DESCRIPTION
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2	04-22-2022	BRE	OCPW RAI #1
3	08-01-2022	BRE	OCPW RAI #2
4	09-23-2022	BRE	OCPW FINAL COMMENTS
5	11-17-2022	BRE	WALL EASEMENT

DESIGNED BY: **RVB**
 DRAWN BY: **BRE**
 CHECKED BY: **RVB**
 APPROVED BY: **RVB**
 DATE: **11-17-2022**

AVCON PROJECT No. **2019.0099.15**

SHEET NUMBER
C-500



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CONSTRUCTION PLANS

OFFSITE SECTIONS 1

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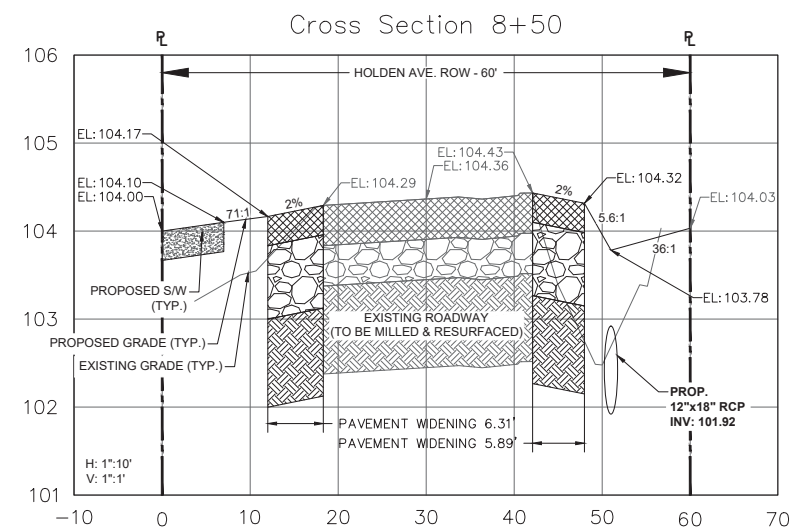
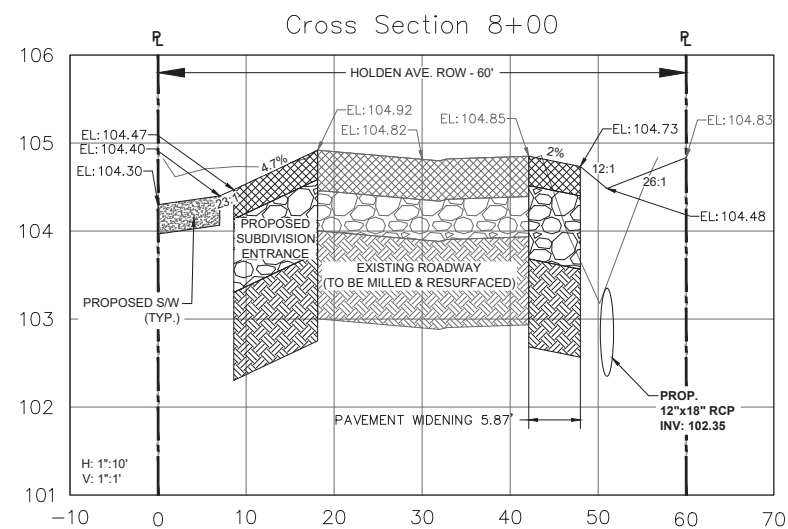
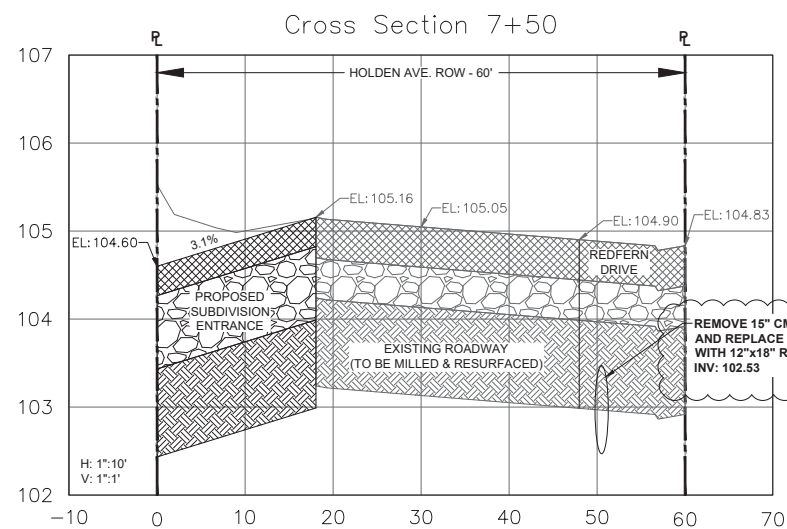
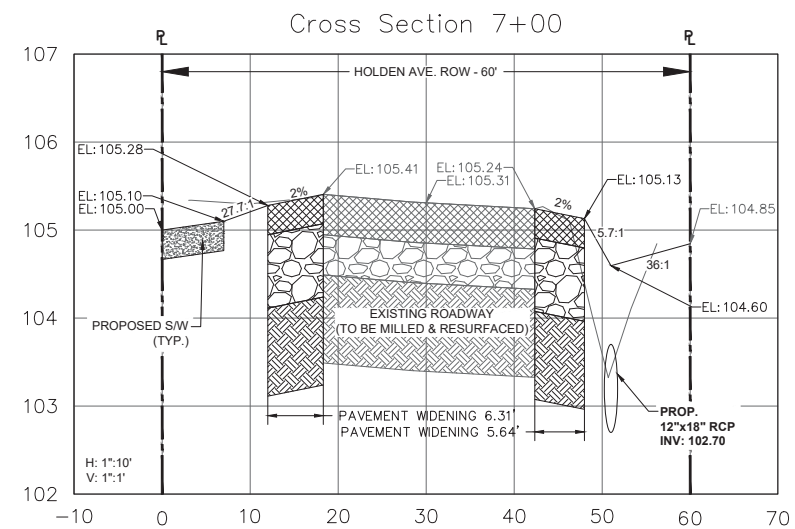
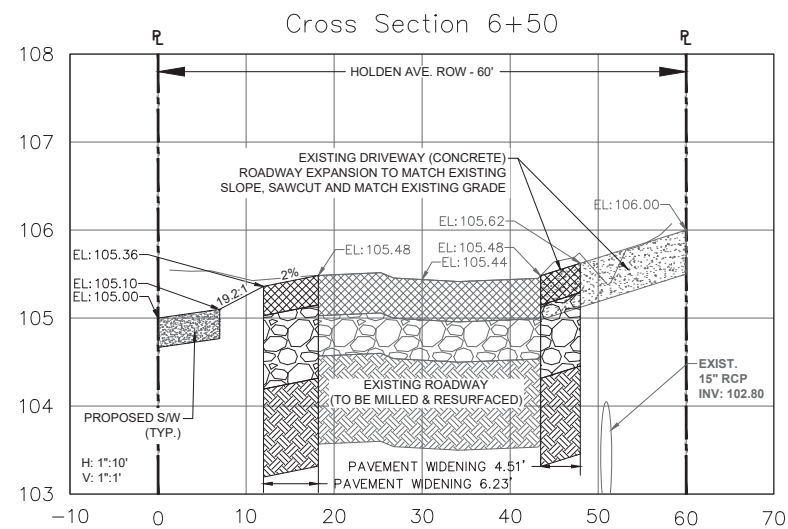
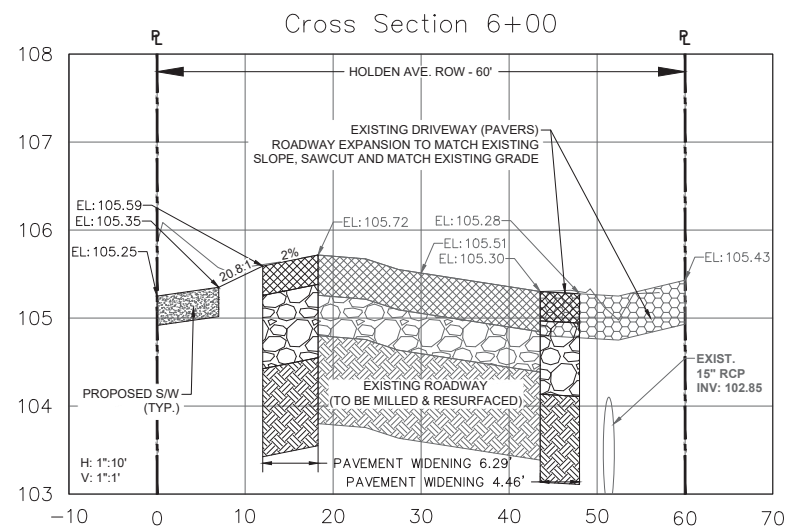
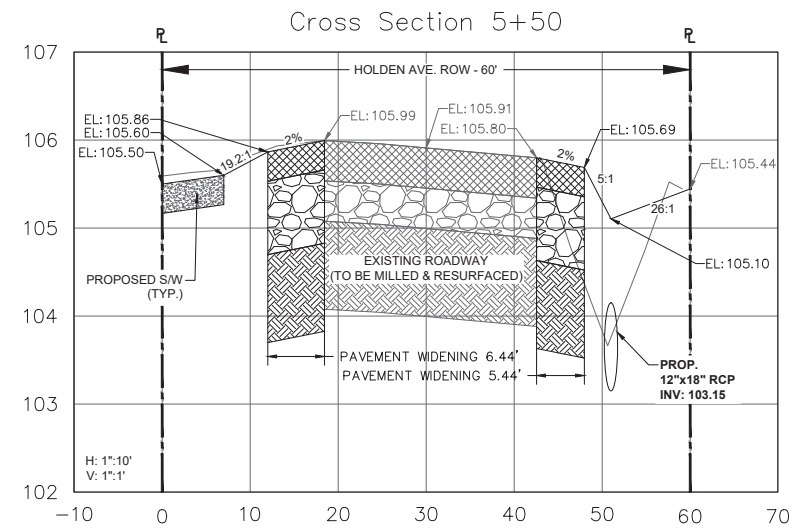
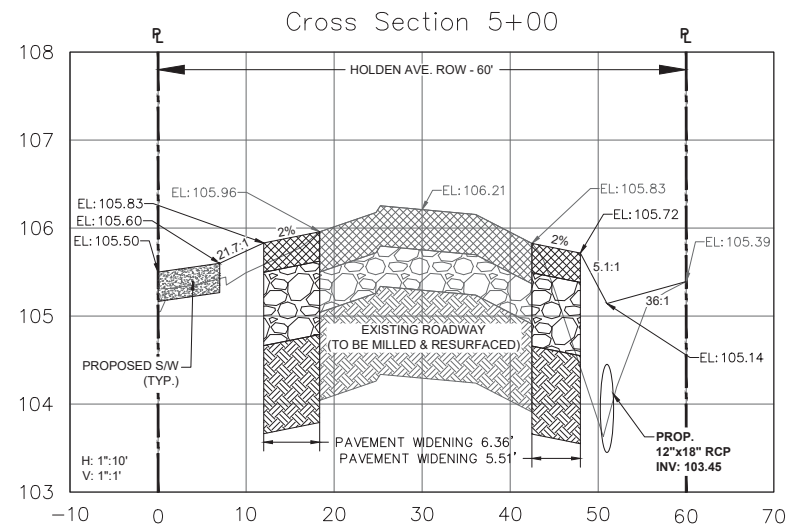
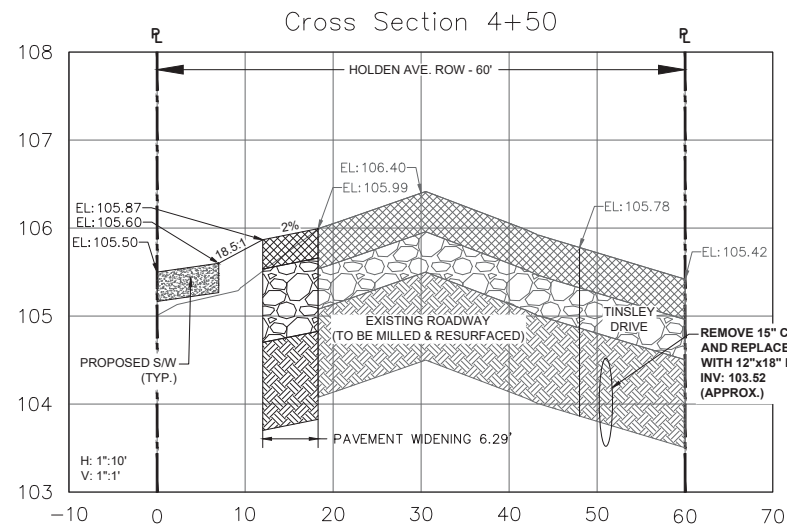
SCALE:

REVISIONS:			
NO.	DATE	BY	DESCRIPTION
1	04-22-2022	BRE	OC/PW RAI #1

DESIGNED BY: RVB
DRAWN BY: BRE
CHECKED BY: RVB
APPROVED BY: RVB
DATE: 08-30-2022

AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-501



AVCON, INC.
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HAVEN OAKS

CONSTRUCTION PLANS

OFFSITE SECTIONS 2

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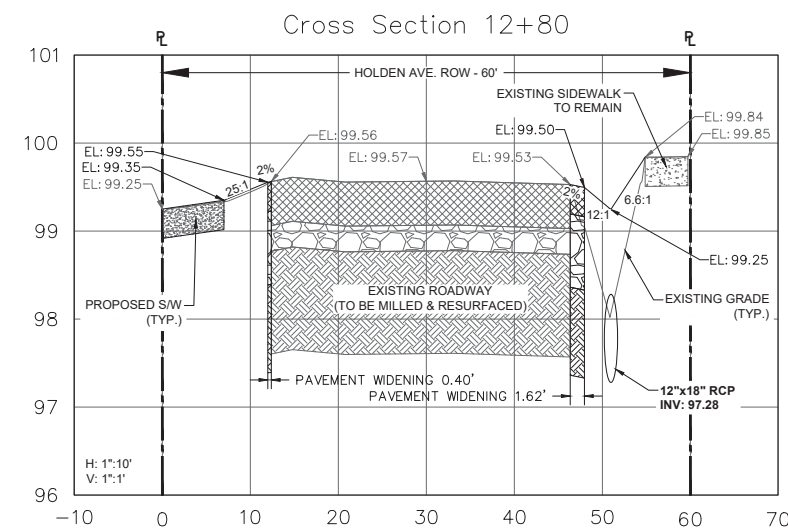
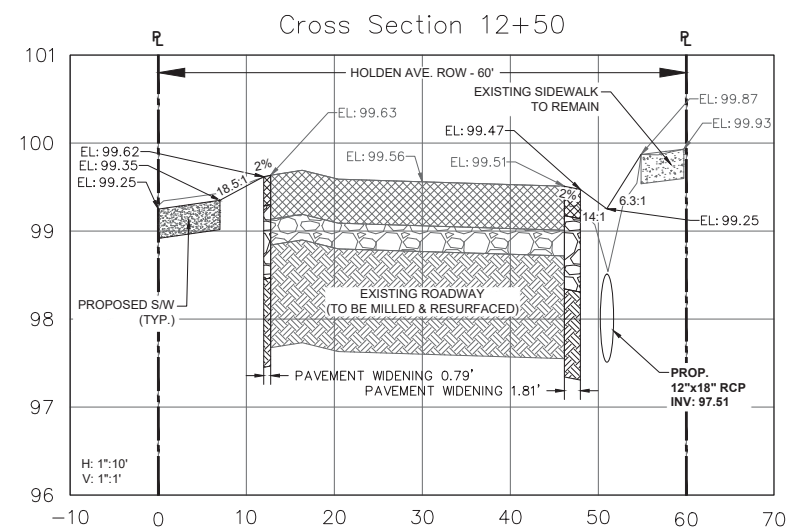
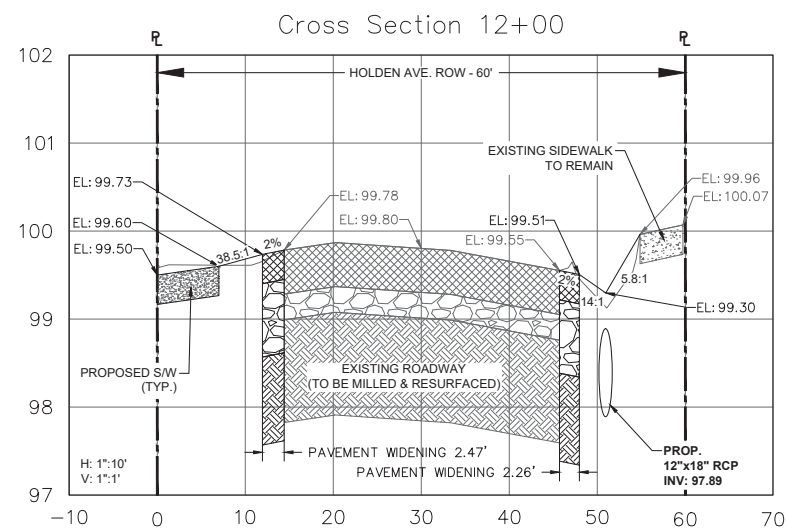
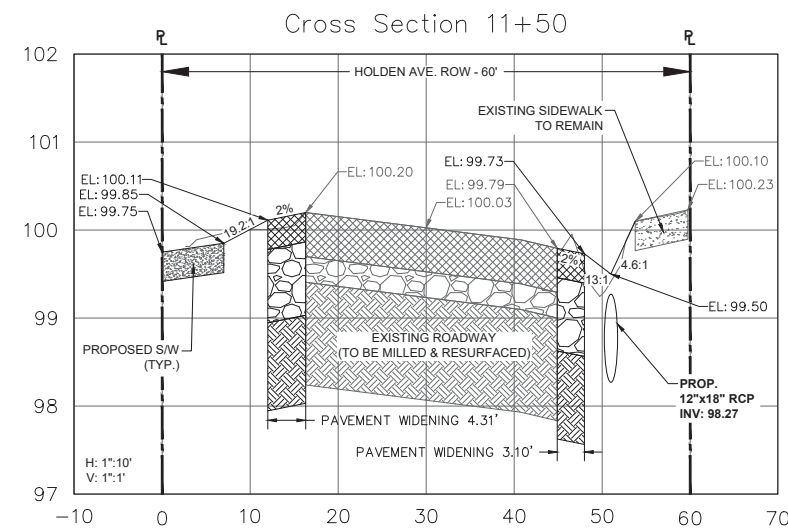
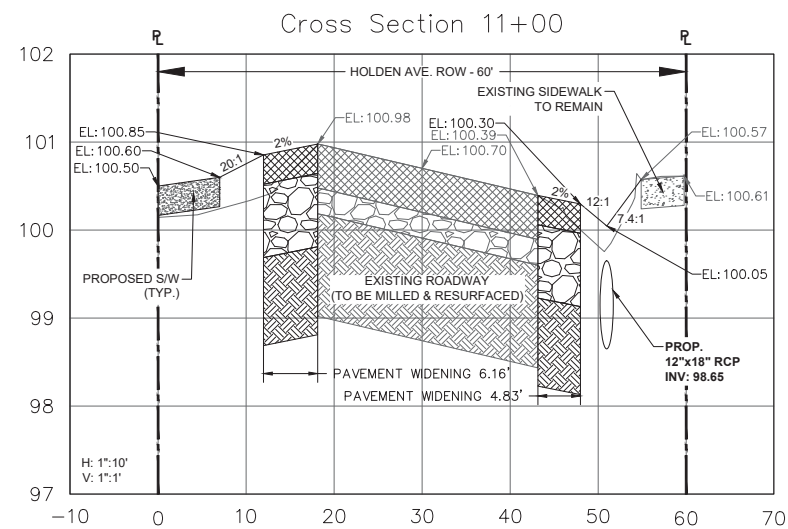
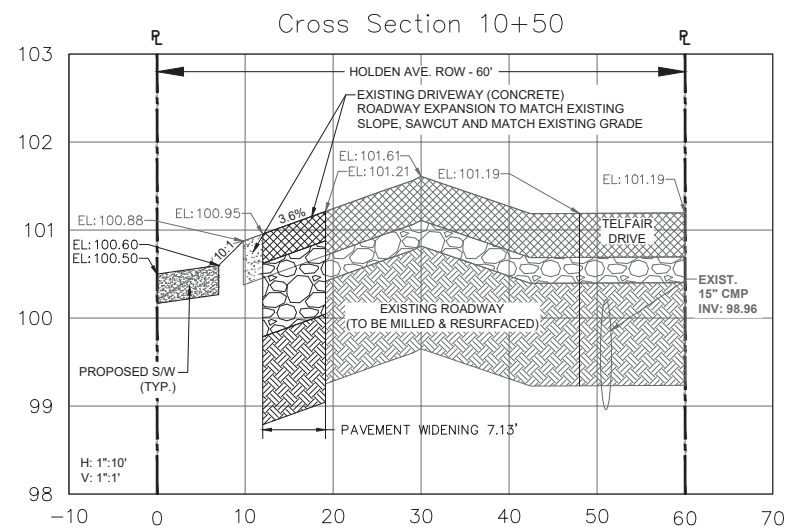
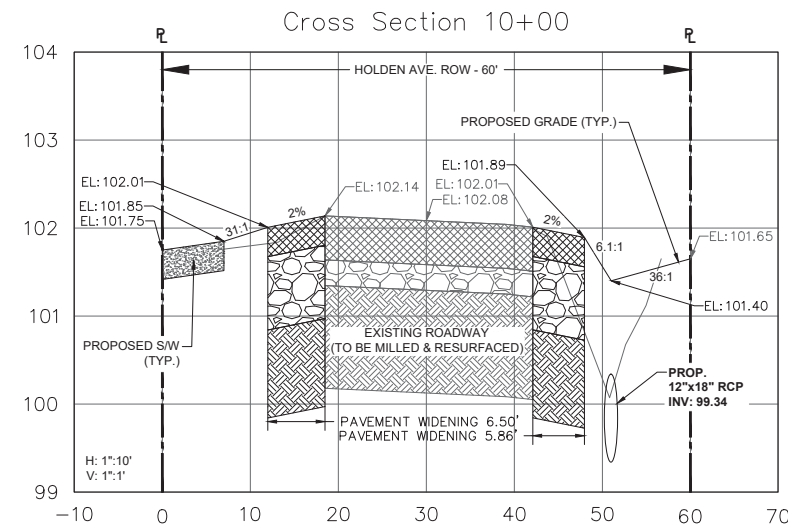
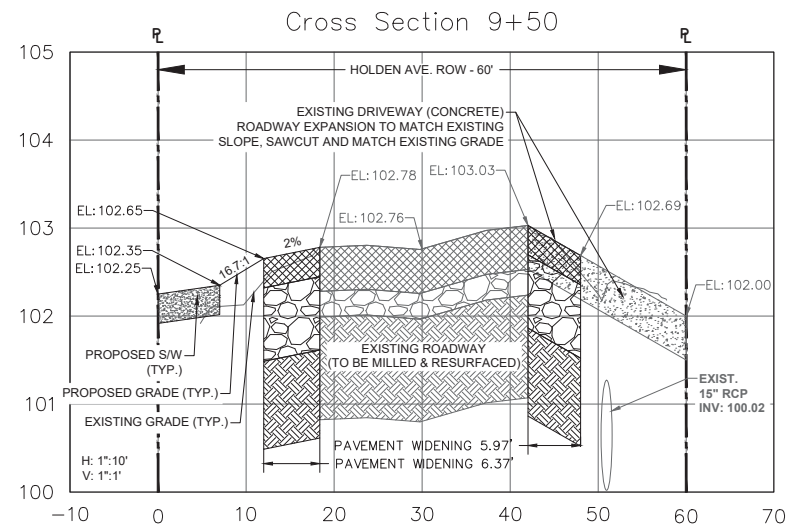
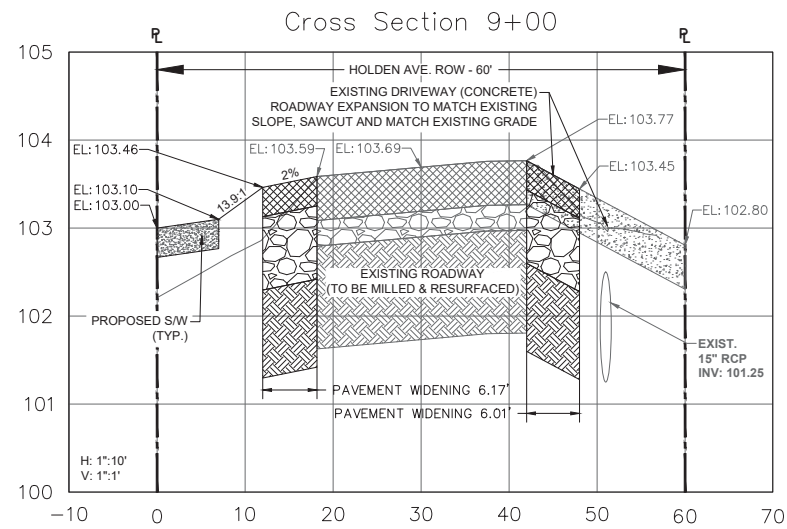
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NO.	DATE	BY	DESCRIPTION
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2	08-01-2022	BRE	OCPW RAI#2

DESIGNED BY: RVB
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APPROVED BY: RVB
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AVCON PROJECT No. 2019.0099.15

SHEET NUMBER
C-502



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CONSTRUCTION PLANS

OFFSITE SECTIONS 3

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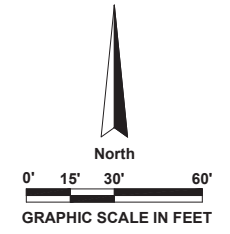
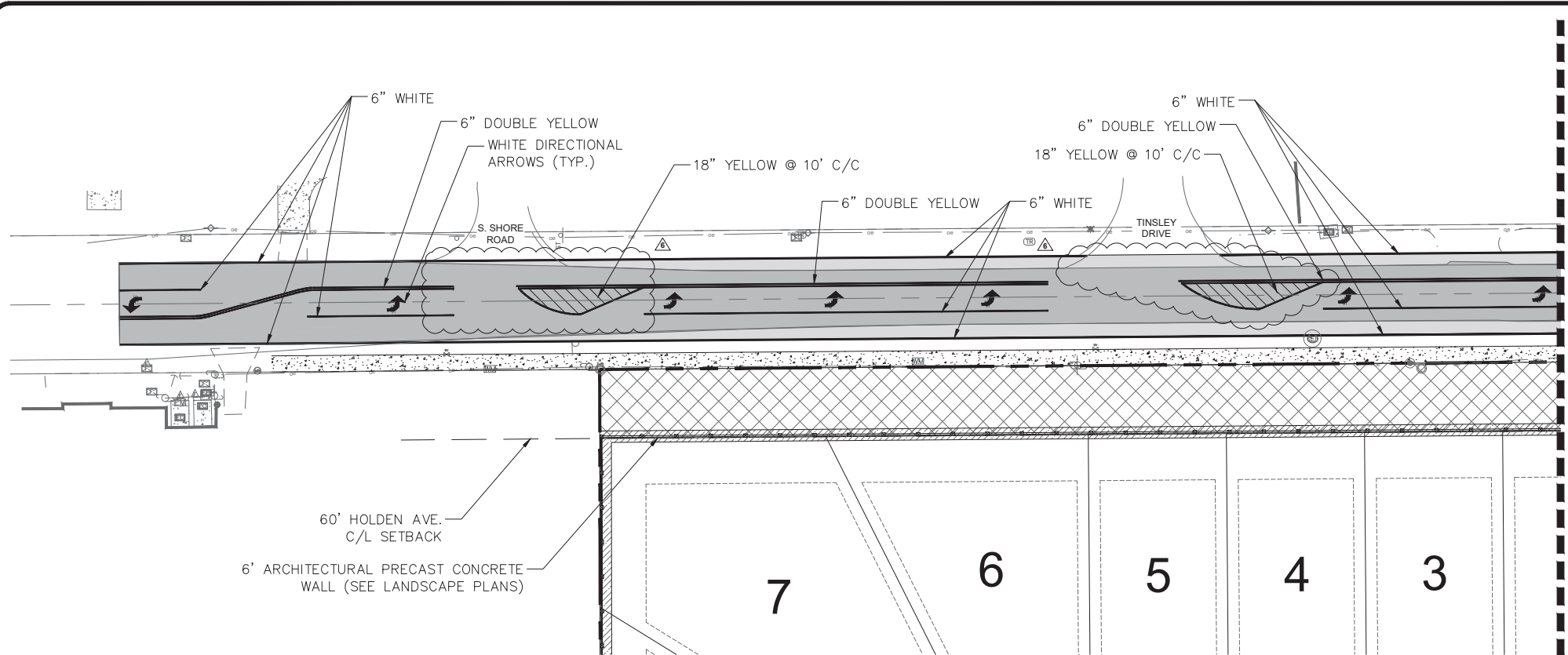
SCALE:

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NO.	DATE	BY	DESCRIPTION
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DESIGNED BY: RVB
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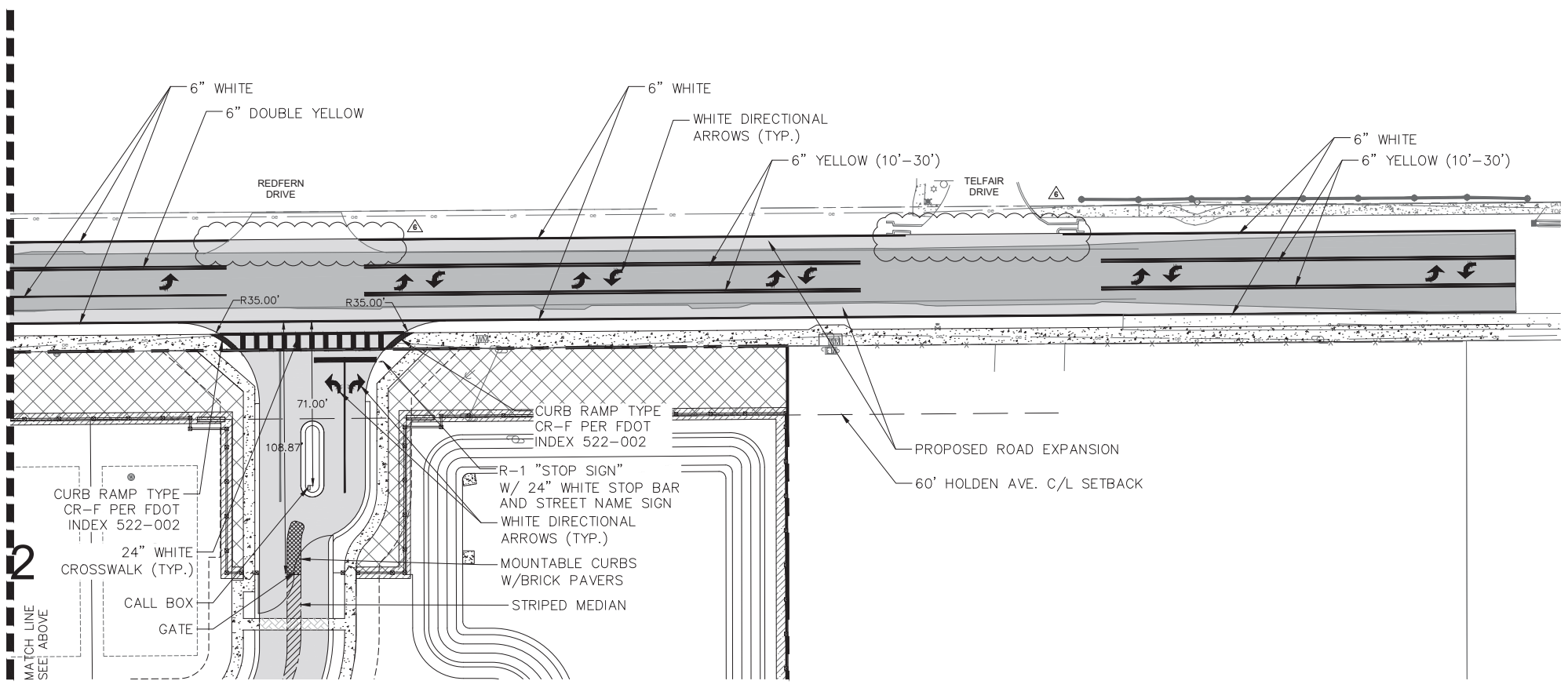
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SHEET NUMBER
C-503



LEGEND

 PROPOSED PAVEMENT / HOLDEN AVE EXPANSION PAVEMENT
 EXISTING HOLDEN AVE. PAVEMENT



- NOTES:**
1. CONTRACTOR SHALL COORDINATE THE RELOCATION OF POWER POLE 'DOWN GUYS' AND ANY OTHER EXISTING UTILITY WITHIN CONSTRUCTION LIMITS WITH UTILITY PROVIDER
 2. ALL LANES SHALL BE MILLED / RESURFACED ALONG THE LENGTH OF THE PROPOSED IMPROVEMENTS. EXISTING STRIPING SHALL BE REMOVED PRIOR TO PAVING
 3. CONTRACTOR MUST NOTIFY PROPERTY OWNERS ALONG HOLDEN AVENUE PRIOR TO CONSTRUCTION AND SHALL MAINTAIN ACCESS TO ALL LOTS DURING CONSTRUCTION
 4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND APPLICATIONS ARE PER THE JULY 2021 FDOT STANDARD PLANS SECTION 711-001
 5. APPLICATIONS FOR RAISED PAVEMENT MARKERS SHALL BE PER THE JULY 2021 FDOT STANDARD PLANS SECTION 706-001
 6. A 6' WIDE MINIMUM CLEAR ZONE PER FDOT FDM 215 SHALL BE PROVIDED ALONG THE EXTENTS OF THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY EOR OF ANY OBSTRUCTIONS DISCOVERED WITHIN THE REQUIRED CLEAR ZONE, AND SHALL COORDINATE RELOCATION OR PROTECTION PER FDOT STANDARDS WITH THE OWNERSHIP ENTITY

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CONSTRUCTION PLANS

OFFSITE STRIPING PLAN

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