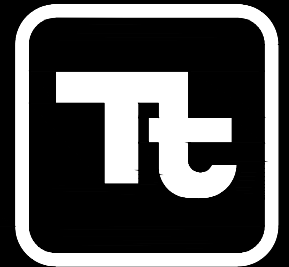


SUMMERLAKE FORCE MAIN AND RECLAIMED WATER MAIN

201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
PHONE: (407) 839-3955 FAX: (407) 839-3790
www.tetratech.com



TETRA TECH

CONSTRUCTION DRAWINGS FOR

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS

ORANGE COUNTY MAYOR
TERESA JACOBS

COUNTY ADMINISTRATOR
AJIT LALCHANDANI

DIRECTOR OF UTILITIES
RAY HANSON, P.E.



ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS

DISTRICT 1
BETSY VANDERLEY

DISTRICT 2
BRYAN NELSON

DISTRICT 3
PETE CLARKE

DISTRICT 4
JENNIFER THOMPSON

DISTRICT 5
EMILY BONILLA

DISTRICT 6
VICTORIA P. SIPLIN

PREPARED FOR
**UTILITIES ENGINEERING
ORANGE COUNTY, FLORIDA**

PROJECT LOCATION:

ORANGE COUNTY, FL

CLIENT INFORMATION:

ORANGE COUNTY UTILITIES
9150 CURRY FORD ROAD
ORLANDO, FLORIDA

Tt PROJECT No.:

200-10034-16002

CLIENT PROJECT No.:

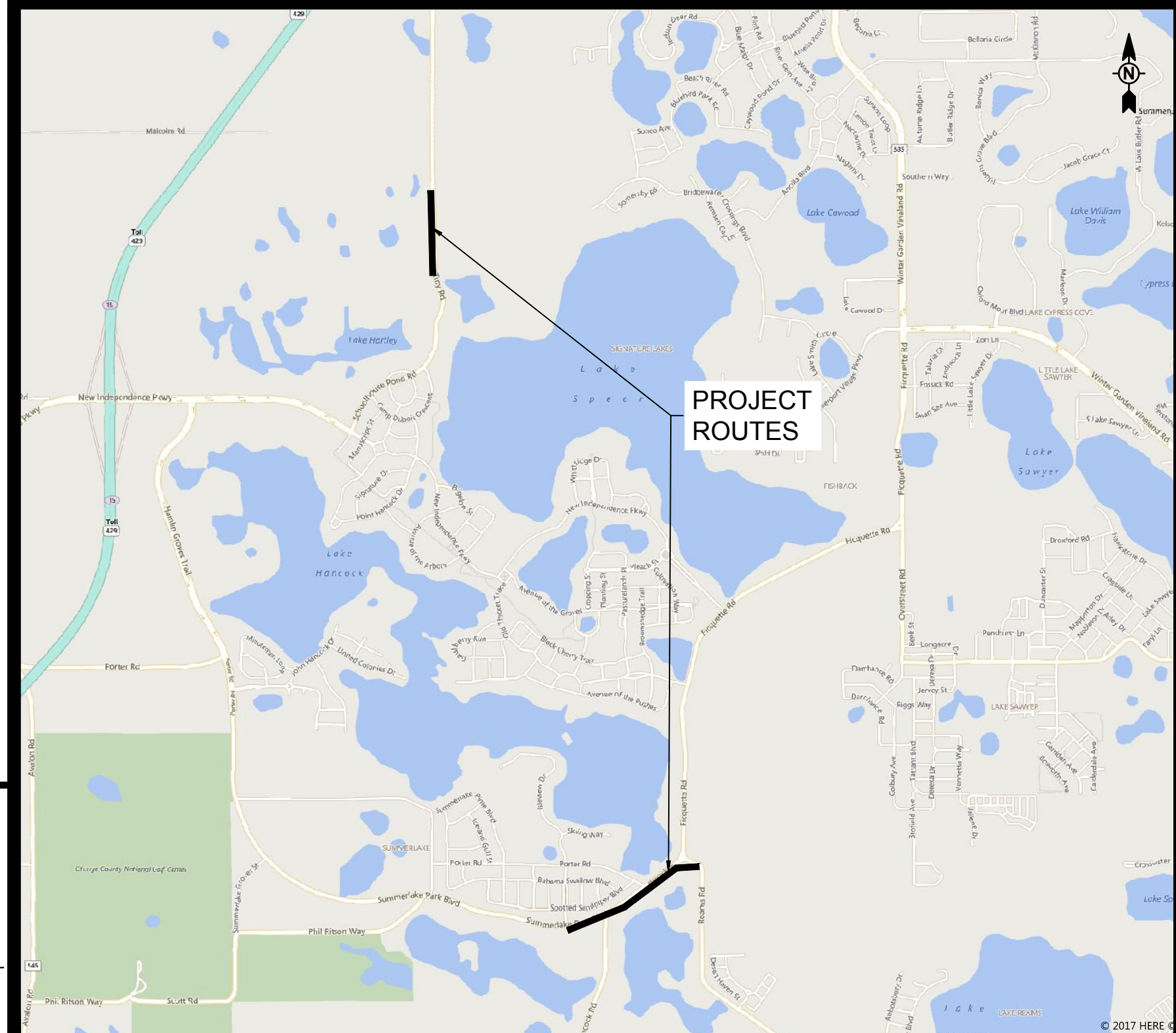
PROJECT DESCRIPTION / NOTES:

APPROXIMATELY 1,500 LF OF 24-INCH RECLAIMED WATER MAIN PIPING ALONG TINY ROAD AND 2,300 LF OF 24-INCH FORCE MAIN PIPING ALONG SUMMERLAKE PARK BLVD. IN ORANGE COUNTY, FLORIDA.

ISSUED:

BID SET

VICINITY MAP



Janine M. Alexander, P.E.
P.E. No. 59244, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE _____

GENERAL NOTES

ALL WORK AND REQUIREMENTS FROM THE NOTES IN THIS PAGE SHALL BE A REQUIREMENT OF THE CONTRACT AND EXECUTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO ORANGE COUNTY.

1. ALL UTILITIES FACILITIES CONSTRUCTION CONNECTING TO THE ORANGE COUNTY PUBLIC UTILITIES SYSTEM SHALL CONFORM TO THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL, AND BE ONE OF THE APPROVED PRODUCTS LISTED IN APPENDIX 'D' OF THE MANUAL.
2. THE UTILITIES IMPROVEMENTS AND ADJUSTMENT SHOWN ON THESE DRAWINGS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE ORANGE COUNTY WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS. THE DRAWINGS DO NOT INCLUDE WORK PERFORMED ON, OR FOR UTILITY SYSTEMS OWNED BY OTHERS, UNLESS STATED OTHERWISE ON THE DRAWINGS.
3. COORDINATION AND COMMUNICATIONS WITH ORANGE COUNTY STAFF SHALL BE MADE THROUGH THE ORANGE COUNTY UTILITIES CONSTRUCTION DIVISION INSPECTOR.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ORANGE COUNTY UTILITIES DISPATCH (EMERGENCY ONLY) IN THE EVENT OF UTILITY MAIN BREAK OR DAMAGE AT 407-836-2777.
5. THE ORANGE COUNTY UTILITIES CONSTRUCTION DIVISION SHALL BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY, OR PRIOR TO ANY ACTIVITY REQUIRING THE PRESENCE OF OR AN ACTION BY UTILITIES STAFF SUCH AS SCHEDULING VALVE OPERATION, PRESSURE TESTING, PIPE CONNECTION, PUMP STATION OPERATIONS OR SHUTDOWNS, ETC.
6. WATER, WASTEWATER AND RECLAIMED WATER VALVES, PUMP STATIONS OR OTHER UTILITY INFRASTRUCTURE ARE TO BE OPERATED ONLY BY ORANGE COUNTY UTILITIES PERSONNEL. ALL VALVES BEING INSTALLED ARE TO REMAIN CLOSED DURING CONSTRUCTION.
7. ORANGE COUNTY UTILITIES DEPARTMENT TELEPHONE NUMBERS:
407-836-2777 ORANGE COUNTY UTILITIES DISPATCH
407-254-9798 ORANGE COUNTY UTILITIES CONSTRUCTION DIVISION
407-254-9680 ORANGE COUNTY UTILITIES WATER RECLAMATION DIVISION
407-254-9850 ORANGE COUNTY UTILITIES WATER DIVISION
407-254-9900 ORANGE COUNTY UTILITIES ENGINEERING DIVISION
8. SUPPORT AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL CONTACT UTILITY OWNERS FOR LOCATION OF ALL EXISTING FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS AND FOR PROVIDING TEMPORARY SUPPORT FOR THE UTILITY POLES, ANCHOR GUYS, AND ALL OTHER UTILITIES DURING CONSTRUCTION.
9. IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, SEWER, RECLAIMED WATER, POWER, TELEPHONE, GAS, FIBER OPTIC AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS IN A WRITTEN REPORT. ANY CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY AND DETAILED IN REPORT.
10. CONTRACTOR SHALL COORDINATE WITH ALL OTHER UTILITY OWNERS FOR RESOLUTION OF CONFLICTS. CONTRACTOR SHALL HAVE 48 HOURS TO DETERMINE THE RESOLUTION OF ANY UNKNOWN OR UNFORESEEN CONFLICTS. COSTS INCURRED SHALL BE BORNE BY THE UTILITY OWNER AND/OR CONTRACTOR AND NO CLAIMS MAY BE MADE AGAINST ORANGE COUNTY OR THE ENGINEER FOR THESE CONFLICTS. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR THE PERIOD OF TIME TO RESOLVE ANY CONFLICTS.
11. ALL MAIN REPAIRS TO BE COMPLETED IMMEDIATELY BY THE CONTRACTOR, AT THE CONTRACTOR'S COST. IF THE MAIN IS NOT REPAIRED IN A TIMELY MANNER, AS DETERMINED BY THE ENGINEER, ORANGE COUNTY UTILITIES PERSONNEL MAY REPAIR MAIN AND THE CONTRACTOR WILL BE BACK CHARGED FOR REPAIRS.
12. USE EXTREME CAUTION WHEN EXCAVATING OR CONNECTING TO ASBESTOS CEMENT PIPE. THE CONTRACTOR WILL BE REQUIRED TO SUPPLY TRUCKS CAPABLE OF PUMPING OUT THE PUMP STATION UPSTREAM FROM BREAKS OR CONNECTION POINT. WHEN CONNECTING TO ASBESTOS CEMENT WATER MAIN OR FORCE MAIN THE CONTRACTOR IS REQUIRED TO REPLACE ANY DAMAGED LENGTHS OF PIPE. THE AMOUNT OF REPLACED PIPE WILL BE DETERMINED BY THE ORANGE COUNTY UTILITIES INSPECTOR.
13. EXISTING PIPING SHALL BE TAKEN OUT OF SERVICE, GROUTED AND ABANDONED IN PLACE. UNLESS OTHERWISE NOTED ON PLANS.
14. ALL EXISTING AND NEW OCU WATER AND SEWER VALVES, VALVE BOXES, AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. VALVE AND VALVE BOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES. ANY VALVES THAT MIGHT BE COVERED DURING CONSTRUCTION SHALL BE MARKED WITH A MARKER (GREEN FOR SEWER, BLUE FOR WATER, AND PURPLE FOR RECLAIMED WATER MAIN), A MINIMUM OF FOUR (4) FEET ABOVE GRADE. ALL VALVES UNDER CONSTRUCTION ARE TO REMAIN CLOSED DURING CONSTRUCTION.
15. SEE DETAIL SHEET FOR SEPARATION REQUIREMENTS BETWEEN WATER MAINS, SEWER MAINS AND OTHER PIPELINES AND MAINS. NO CONCRETE ENCASEMENT OF PIPES WILL BE PERMITTED.
16. PVC PIPE 4-INCH TO 12-INCH SHALL CONFORM TO THE REQUIREMENTS OF AWWA STANDARD C900, DR18. PVC PIPE 16-INCH TO 30-INCH SHALL CONFORM TO THE REQUIREMENTS OF AWWA STANDARD C905, DR18. 36-INCH PVC PIPE SHALL CONFORM TO AWWA STADARD C905, DR21. ALL PVC PRESSURE PIPE SHALL USE DUCTILE IRON FITTINGS. ALL DUCTILE IRON WATER MAIN SHALL CONFORM TO ANSII/AWWA A25.1/C151. ALL MATERIAL FOR USE IN POTABLE WATER SYSTEMS SHALL BE LISTED AS MEETING NSF-61.
17. ALL DUCTILE IRON PIPE, MECHANICAL JOINT FITTINGS, AND PIPE RESTRAINTS SHALL BE POLYETHYLENE ENCASED.
18. ALL BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS MEASURED BY AASHTO T-180 METHOD 'D' TEST (MODIFIED PROCTOR) IN OPEN AREAS AND TO NOT LESS THAN 98% MAXIMUM DRY DENSITY AS MEASURED BY AASHTO T-180 METHOD 'D' TEST (MODIFIED PROCTOR) UNDER ASPHALT OR CONCRETE PAVEMENT AND WITHIN 3-FT OF PAVEMENT. ALL SOIL TESTING TO BE CONDUCTED BY THE COUNTY. THE CONTRACTOR SHALL PROVIDE ALL REASONABLE ASSISTANCE DURING SOIL TESTING.
19. PIPE LENGTHS SHOWN ON PLANS ARE APPROXIMATE. ACTUAL LENGTHS ARE TO BE DETERMINED DURING CONSTRUCTION.
20. ALL NORTHING AND EASTING COORDINATES ARE BASED ON THE STATE PLAIN COORDINATE SYSTEM. STATIONING IS FOR REFERENCE ONLY.
21. ALL STATIONS AND OFFSET REFER TO BASELINE OF STATIONING.
22. MAINTAIN EMERGENCY VEHICLE ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
23. IN AREAS WHERE CONSTRUCTION ACTIVITIES RESTRICT NORMAL ACCESS TO PROPERTIES, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALTERNATE ACCESS ROUTES WHICH ARE SUBJECT TO APPROVAL BY THE ENGINEER, AS PART OF THE M.O.T. PLAN.
24. LOCAL RESIDENTIAL ACCESS SHALL BE MAINTAINED AT ALL TIMES. PROVIDE WRITTEN NOTIFICATION TO RESIDENTS SEVEN (7) DAYS PRIOR TO IMPLEMENTING ANY ROADWAY OR DRIVEWAY CLOSURE.
25. ALL EXCAVATIONS SHALL BE BACK FILLED AT THE END OF EACH WORK DAY.
26. ALL MAINS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS. A MINIMUM COVER OF 36-INCHES SHALL BE MAINTAINED ON ALL MAINS, WHERE IT IS NOT OTHERWISE SPECIFIED ON PLANS OR DIRECTED BY THE ENGINEER.

27. ALL PIPES SHALL BE RESTRAINED IN ACCORDANCE WITH THE RESTRAINT TABLES SHOWN ON THE DETAIL SHEETS. IN ADDITION, ALL FITTINGS SHALL BE MECHANICAL JOINT RESTRAINED. NO THRUST BLOCKS SHALL BE PERMITTED. RESTRAIN EXISTING PIPE WHERE REQUIRED IN ACCORDANCE WITH THE RESTRAINT TABLES.
28. COMPLETE ALL CONSTRUCTION WITHIN RIGHT OF WAY LIMITS AND EASEMENT LIMITS, UNLESS OTHERWISE NOTED.
29. PIPE SIZES SHOWN ON PLANS ARE NOMINAL DIAMETER.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DE-WATERING REQUIRED DURING CONSTRUCTION AND TO OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THE TEMPORARY DE-WATERING.
31. CONTRACTOR SHALL INSTALL AIR RELEASE VALVES (ARV) AT ALL HIGH POINTS IN THE SYSTEM WHERE AIR CAN ACCUMULATE. AIR RELEASE VALVES AND APPURTENANCES SHALL BE COLOR CODED BLUE FOR WATER, GREEN FOR SEWER, AND PURPLE FOR RECLAIMED. STATIONING FOR AIR RELEASE VALVES IS APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH THE OCU INSPECTOR.
32. WHERE SHOWN ON THE PLANS, LINE STOPS WILL BE USED TO ISOLATE PORTIONS OF THE EXISTING MAINS. THE ORANGE COUNTY INSPECTOR SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF LINE STOP INSTALLATION.
33. ALL CONNECTIONS TO EXISTING MAINS SHALL BE MADE BY THE CONTRACTOR ONLY AFTER THE PROPOSED CONNECTION PROCEDURE AND WORK SCHEDULE HAVE BEEN REVIEWED AND ACCEPTED BY THE OWNER. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE OWNER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO SCHEDULING ANY CONNECTIONS. THE REQUEST SHALL REFERENCE THE PROFESSIONAL LAND SURVEYOR CERTIFIED COMPLETED AS-BUILT RECORD DRAWINGS PREVIOUSLY SUBMITTED AND SHALL OUTLINE THE FOLLOWING:
 - A. POINTS OF CONNECTION, FITTINGS TO BE USED, METHODS OF FLUSHING AND DISINFECTION AND VERIFICATION OF RESTRAINT ON EXISTING PIPE.
 - B. ESTIMATED CONSTRUCTION TIME FOR THE CONNECTIONS.
 - C. THE OWNER SHALL REVIEW THE SUBMITTAL WITHIN FIVE (5) WORKING DAYS AFTER RECEIVING IT AND INFORM THE CONTRACTOR REGARDING APPROVAL OR DENIAL OF THE REQUEST. IF THE OWNER REJECTS THE REQUEST, THE CONTRACTOR SHALL RESUBMIT THE REQUEST MODIFYING IT IN A MANNER ACCEPTABLE TO THE OWNER. ALL CONNECTIONS SHALL ONLY BE MADE ON THE AGREED UPON DATE AND TIME.
 - D. SHOULD THE CONTRACTOR NOT INITIATE AND COMPLETE THE CONNECTION WORK IN THE AGREED UPON MANNER, HE SHALL BE REQUIRED TO RESCHEDULE THE CONNECTION BY FOLLOWING THE PROCEDURE OUTLINED ABOVE.
 - E. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES IN THE SYSTEM.
 - F. MAINS SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE IS RECEIVED FROM FDEP.
 - G. AS-BUILT DRAWINGS MUST BE COMPLETED AND SUBMITTED PRIOR TO WATER MAIN CHLORINATION.
35. PROTECT EXISTING IMPROVEMENTS TO THE MAXIMUM EXTENT POSSIBLE. RESTORE ALL EXISTING IMPROVEMENTS AND DISTURBED AREAS TO ORIGINAL CONDITION. PAVEMENT TO BE RESTORED IN ACCORDANCE WITH THE PAVEMENT RESTORATION DETAILS SHOWN ON THE CONSTRUCTION DETAIL SHEETS. ALL DAMAGED MAILBOXES, IRRIGATION SYSTEMS, FENCING, SIDEWALK, ROADWAY PAVEMENT AND OTHER IMPROVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION.
26. ALL COUNTY ROADS TO BE OPEN CUT SHALL BE APPROVED BY ORANGE COUNTY PUBLIC WORKS PRIOR TO OPEN-CUTS. SUBMIT A MAINTENANCE OF TRAFFIC (MOT) PLAN CONFORMING TO ORANGE COUNTY RIGHT-OF-WAY UTILIZATION REGULATIONS TO ORANGE COUNTY PUBLIC WORKS A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO ANY WORK WITHIN COUNTY RIGHT-OF-WAY. A COPY OF THIS PLAN SHALL ALSO BE SUBMITTED TO THE ENGINEER AND UTILITY COUNTY INSPECTOR. NOTIFY THE COUNTY ENGINEER 48 HOURS PRIOR TO ANY OPEN CUT OF ROADWAYS OR JACK AND BORE OPERATIONS WITHIN THE COUNTY RIGHT-OF-WAY. TWO WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. MAINTAIN A SET OF COUNTY APPROVED CONSTRUCTION PLANS AND MOT PLANS AT THE CONSTRUCTION SITE AT ALL TIMES WHEN WORKING WITHIN THE COUNTY RIGHT-OF-WAY.
37. BENCHMARK LOCATIONS AND ELEVATIONS ARE SHOWN IN THE PLANS AS REPRESENTED BY THE SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT THE TIME OF CONSTRUCTION AND INSTALL HIS OWN TEMPORARY BENCHMARKS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OCU UTILITIES INSPECTOR.
38. NO VALVE BOXES, METERS, PORTIONS OF MANHOLES, OR OTHER APPURTENANCES OF ANY KIND RELATING TO ANY UNDERGROUND UTILITIES SHALL BE LOCATED IN ANY PORTION OF A CURB-AND-GUTTER SECTION. CONTRACTOR SHALL ADVISE ENGINEER IMMEDIATELY UPON DISCOVERY OF A POTENTIAL CONFLICT.
39. WHERE REQUIRED, AT NO ADDITIONAL COST TO THE COUNTY, THE CONTRACTOR SHALL USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF EXCAVATIONS AND PROTECT EXISTING ROADWAYS, UTILITIES AND OTHER FACILITIES OR AS NEEDED TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTOR TO COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS AT ALL TIMES.
40. CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS OF ALL UTILITIES UNCOVERED IN TRENCHES. THE AS-BUILT SHALL RECORD LOCATION, SIZE, TYPE, ELEVATION AND OWNER OF ALL UTILITY FACILITIES UNCOVERED.
41. ALL EXISTING MAINS SHALL REMAIN IN SERVICE UNTIL THE PROPOSED MAIN(S) ARE ACCEPTED FOR SERVICE AND ALL SERVICES ARE TRANSFERRED TO THE MAIN(S).
42. CONTRACTOR SHALL APPLY FOR AND SECURE ALL NECESSARY PERMITS FROM STATE, COUNTY, AND LOCAL MUNICIPALITIES. PERMITS SHALL INCLUDE, BUT NOT BE LIMITED TO, RIGHT OF WAY USE, CONSTRUCTION, BUSINESS LICENSE, AND DEWATERING.
43. FOR PVC PIPE NO HORIZONTAL/VERTICAL PIPE DEFLECTION WILL BE ALLOWED. CONTRACTOR SHALL USE FITTINGS TO OBTAIN THE REQUIRED CLEARANCES. ON DUCTILE IRON PIPE CONTRACTOR SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDATION FOR PIPE DEFLECTION. OTHERWISE USE FITTINGS TO OBTAIN REQUIRED CLEARANCES. ALL FITTINGS SHALL BE ADDED TO THE COORDINATE ASSET ATTRIBUTE TABLE.
44. UTILITY MAIN MARKERS ARE REQUIRED WHEN UTILITY MAIN IS LOCATED OVER 30 FEET FROM EDGE OF PAVEMENT OR IN AN EASEMENT NOT ADJACENT TO THE RIGHT OF WAY.
45. THE DISPOSAL OF ANY EXCESS EARTH WORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
46. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SALVAGE AND/OR DISPOSAL OF ALL MATERIALS AND EQUIPMENT AS DIRECTED BY THE ORANGE COUNTY UTILITIES INSPECTOR.
47. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION AND ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL FURNISH ADDITIONAL CONTROLS AS NEEDED AT NO ADDITIONAL COST. MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF PERIMETER AREAS OR IN WATERWAYS. SILT SCREENS, HAY BALES, AND TURBIDITY BARRIERS MUST REMAIN IN PLACE AND IN GOOD CONDITION AT ALL LOCATIONS IN PLANS OR AS REQUIRED UNTIL THE CONTRACT IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION IS ESTABLISHED. MEASURES SHOWN ON THE PLANS ARE MINIMUM REQUIRED, AND THE CONTRACTOR SHALL ENSURE THAT THERE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS IN TURBID WATERS TO OFF SITE AREAS OR WATERWAYS.
48. CONTRACTOR SHALL MAINTAIN SAFE PREDESTRIAN ACCESS ALONG AND ACROSS THE WORK AREA AT ALL TIMES. PROVIDE QUALIFIED PERSONNEL TO MONITOR AND ESCORT PEDESTRIANS AS NEEDED. REESTABLISH SAFE PEDESTRIAN ACCESS EVERY NIGHT PRIOR TO LEAVING THE WORK AREA. INCLUDE THE CONTRACTOR'S PLAN FOR PEDESTRIAN ACCESS WITH THE MOT SUBMITTAL.

49. ALL SIDEWALKS AND DRIVEWAYS MUST MEET ADA STANDARDS AND SPECIFICATIONS.
50. CONTRACTOR SHALL COMPLETE AND PLACE IN SERVICE THE WORK INCLUDING TESTING AND RESTORATION ON TINY ROAD OR SUMMERLAKE BOULEVARD PRIOR TO STARTING THE WORK ON THE OTHER ROADWAY. CONTRACTOR SHALL IDENTIFY WHICH SEGMENT WILL BE COMPLETE FIRST IN THEIR PROJECT SCHEDULE.

SPILL NOTES

1. THE CONTRACTOR SHALL PROVIDE TANKERS AND SIGNED DOCUMENTS ACKNOWLEDGING THE UNDERSTANDING OF THE ORANGE COUNTY "EMERGENCY WASTEWATER SPILL AND WATER MAIN BREAK PROCEDURES" IN THE PRECONSTRUCTION PACKET FOR THE MEETING.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON-SITE DURING THE LIFE OF THE PROJECT, A WEATHER PROOF ENCLOSURE CONTAINING A READILY ACCESSIBLE LIST OF EMERGENCY CONTACTS AND PHONE NUMBERS.

EMERGENCY WASTEWATER SPILL, WATER MAIN, RECLAIMED WATER MAIN BREAKER PROCEDURES DAMAGE NOTIFICATION:

1. THE ORANGE COUNTY UTILITY DISPATCH OPERATOR (407-836-2777) SHALL BE NOTIFIED IMMEDIATELY IN THE EVENT OF A FORCE MAIN, GRAVITY SEWER, OR RECLAIMED WATER MAIN BREAK OR DAMAGE.

IMMEDIATE REPAIR:

2. ALL DAMAGE TO ORANGE COUNTY'S MAIN SHALL BE REPAIRED IMMEDIATELY WITHOUT DELAY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF THE REPAIR IS NOT MADE IN A TIMELY AND APPROVED MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITIES INSPECTOR, ORANGE COUNTY MAY PERFORM THE REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR THE REPAIRS.

WASTEWATER AND STORMWATER BY-PASS NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ADEQUATE BY-PASS PUMPING TO MAINTAIN WASTEWATER SERVICE TO ALL CUSTOMERS.
2. THE CONTRACTOR SHALL PROVIDE TEMPORARY BY-PASS PUMPING AS NEEDED FOR EACH CONNECTION AND EACH MANHOLE TO BE REHABILITATED AND/OR REPLACED PRIOR TO THE START OF ANY WORK. BOTH THE PRIMARY AND THE BACKUP BY-PASS PUMPING SYSTEMS SHALL BE OF ADEQUATE CAPACITIES AND SIZES TO HANDLE THE FLOW AND SHALL MAINTAIN CONTINUOUS SERVICE DURING THE ENTIRE CONSTRUCTION PROCESS UNTIL THE NEW OR REHABILITATED MANHOLE HAS BEEN ACCEPTED BY THE COUNTY PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL SUBMIT TO THE COUNTY A WRITTEN BY-PASS PLAN FOR APPROVAL AND ACCEPTANCE PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS AND PROVISIONS AS SPECIFIED IN SECTION 01516 OF THE CONTRACT DOCUMENTS.
5. FLOW CONTROL SHALL INCLUDE ACCOMMODATION OF FLOW FROM ANY SIDE SEWERS AFFECTED BY THE WORK.
6. CONTRACTOR SHALL MAINTAIN LATERAL SERVICE TO ANY RESIDENTIAL OR BUSINESS DURING LINE INSTALLATION OR PIPE REPAIR/REPLACEMENT.
7. BYPASS PUMPING OR OTHER MEASURES FOR STORMWATER FLOW CONTROL MUST BE IN PLACE PRIOR TO STORMWATER PIPING REMOVAL OR REPLACEMENT. WHERE STORMWATER PIPING IS BEING REMOVED OR REPLACED, CONTRACTOR TO PERFORM ALL IMPROVEMENTS PRIOR TO RAINFALL TO ENSURE THAT WASHOUTS AND SEDIMENT TRANSPORT DOES NOT OCCUR.

EROSION CONTROL NOTES

1. TEMPORARY STABILIZATION IS REQUIRED OF ALL SOIL LEFT BARE.
2. PERMANENT SOIL STABILIZATION REQUIRED FOR ALL RESTORATION. THE LIMITS OF SOD SHOWN IN THE PLANS ARE FOR ILLUSTRATION ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL SOD REQUIRED FROM CONSTRUCTION OF PROPOSED IMPROVEMENTS.
3. A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P) AND AN EROSION CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
4. REQUIRED INSPECTIONS BY CONTRACTOR DURING CONSTRUCTION FOR STORMWATER POLLUTION PREVENTION PLAN REQUIREMENTS (S.W.P.P.P):
 - A. ONCE EACH WEEK OR WITHIN 24 HRS OF A STORM EVENT (GREATER THAN 1/2 IN.) INSPECT ALL CONTROL MEASURES.
 - B. REPAIR ALL DAMAGED AREAS WITHIN 24 HRS OF DISCOVERY.
 - C. REMOVE ANY BUILT-UP SEDIMENT AROUND FENCES THAT REACHES 1/3 OF THE SILT FENCE HEIGHT.
 - D. SILT FENCES SHOULD BE INSPECTED FOR DEPTH OF SEDIMENT AND TEARS TO INSURE FABRIC HAS NOT PULLED AWAY FROM POSTS.
 - E. INSPECT ALL TEMPORARY AND PERMANENT SOIL STABILIZATION FOR WASHOUTS OR BARE SPOTS.
 - F. INSPECTION REPORTS MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE SITE SUPERINTENDENT SHALL CONDUCT ALL INSPECTIONS AND MAINTAIN REPORTS.
 - G. DATES OF ALL MAJOR GRADING ACTIVITIES MUST BE RECORDED AND MAINTAINED WITH SITE INSPECTIONS WHEN MAJOR GRADING HAS CEASED IN ANY AREA, THE DATE MUST ALSO BE RECORDED.
5. GOOD HOUSEKEEPING THE SITE SHOULD BE KEPT IN AN ORDERLY FASHION, THE CONTRACTOR SHALL INSURE THE FOLLOWING ITEMS ARE ADDRESSED.
6. AN EFFORT SHOULD BE MADE TO STORE ONLY WHAT IS NEEDED ON THE SITE.
7. KEEP ALL STORED MATERIALS IN A NEAT AND ORDERLY FASHION IN THE ORIGINAL CONTAINERS WHEN POSSIBLE.
8. INSPECT DAILY TO INSURE WASTE MATERIAL IS DISPOSED OF PROPERLY.
9. CONTRACTOR WILL BE RESPONSIBLE FOR EROSION CONTROL. MINIMUM EROSION CONTROL IS SHOWN HERE-IN.
10. SILT FENCE SHALL BE INSTALLED COINCIDENT WITH THE LIMITS OF CONSTRUCTION THROUGHOUT THE ENTIRE PROJECT

UTILITY CONTACTS

AT&T DISTRIBUTION • TELEPHONE.....	813-342-0512
AT&T TRANSMISSION • TELEPHONE.....	770-918-5424
BRIGHT HOUSE • CABLE TV.....	407-532-8511
CENTURYLINK • TELEPHONE.....	407-501-2132
DUKE ENERGY • ELECTRIC.....	407-905-3345
LAKE APOPKA NATURAL GAS DISTRICT • GAS.....	407-656-2734 X 116
ORANGE COUNTY UTILITIES WASTEWATER DIVISION	407-254-9764
ORANGE COUNTY UTILITIES WATER RECLAMATION DIVISION.....	407-509-4573
ORANGE COUNTY UTILITIES WATER DIVISION.....	407-254-9764

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Janine M. Alexander, P.E.
P.E. No. 59244, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429
DATE

BID SET

MARK	DATE	DESCRIPTION	BY

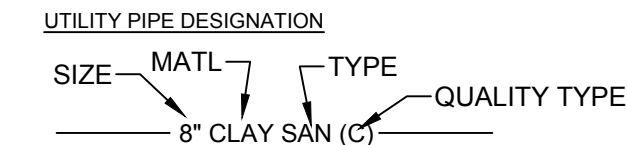
ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL
SUMMERLAKE FORCE MAIN AND
RECLAIMED WATER MAIN
GENERAL NOTES

Project No.: 200-10034-16002
Designed By: JMA
Drawn By: WDV
Checked By: DLA

G001

LIST OF STANDARD ABBREVIATIONS

PIPING LEGEND



NOTE: THIS DRAWING WAS PREPARED IN CONFORMANCE WITH ASCE STANDARD CE/ASSE 38-02 "AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

ASCE 3802 SUBSURFACE UTILITY QUALITY LEVEL INDEX

- QUALITY LEVEL A (QLA): UTILITY INFORMATION WHICH HAS BEEN VISUALLY VERIFIED, SURVEY LOCATED (BOTH HORIZONTALLY AND VERTICALLY) AND ACCURATELY REDUCED ONTO THE DRAWINGS. THIS IS TYPICALLY SHOWN AS A HV VERIFICATION EXCAVATION HOLE.
- QUALITY LEVEL B (QLB): UTILITY INFORMATION DERIVED BY MARKING THE APPROXIMATE SURFACE HORIZONTAL LOCATION OF UTILITY USING ELECTRONIC METHODS BY THE UTILITY OWNER. MARKINGS BY UTILITY OWNERS ARE ASSUMED TO BE LOCATED BY ELECTRONIC METHODS AND SEPARATE LOCATES WILL NOT BE PERFORMED BY THE ENGINEER. MARKING IS SUBSEQUENTLY FIELD SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DRAWINGS.
- QUALITY LEVEL C (QLC): UTILITY INFORMATION OBTAINED AS BELOW FOR QUALITY LEVEL D. PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN FIELD VERIFIED, SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DRAWINGS. INCLUDED IN THIS CATEGORY ARE AERIAL UTILITY INFORMATION AND UTILITY DEPICTIONS, WHICH IN THE PROFESSIONAL OPINION OF THE SUBSURFACE UTILITY ENGINEER, REPRESENT THE MOST PROBABLE APPROXIMATE HORIZONTAL LOCATION, TYPE AND /OR EXISTENCE OF A UTILITY.
- QUALITY LEVEL D (QLD): UTILITY INFORMATION PLOTTED ON THE DRAWING BASED SOLELY ON RECORD INFORMATION, INDIVIDUAL RECOLLECTIONS OR THE EXISTENCE OF UTILITY SERVICE. IT SHALL BE NOTED THAT ALL INFORMATION SHOWN (OTHER THAN AT TEST HOLE LOCATIONS, SEE QLA ABOVE) WITH REFERENCE TO A UTILITIES SIZE, CAPACITY, MATERIAL COMPOSITION, CONDITION OR SERVICE STATUS SHALL BE CONSIDERED QLD EVEN THOUGH THE UTILITY MAY BE PLOTTED AND LABELED QLC OR QLB.

FITTING/ APPURTENANCE	MECHANICAL-JOINT			
	SINGLE-LINE		DOUBLE-LINE	
	EXISTING	PROPOSED	EXISTING	PROPOSED
BEND				
TEE				
WYE				
CONCENTRIC REDUCER				
CAP	N/A	N/A	N/A	N/A
PLUG (PLUGGED VALVE)				
BUTTERFLY VALVE				
BALL VALVE	N/A	N/A	N/A	N/A
CHECK VALVE				
GATE VALVE				
PLUG VALVE				
PINCH VALVE				
AUTOMATIC CONTROL VALVE				

CIVIL LEGEND	
BASELINE	
PROPERTY LINE	
RIGHT OF WAY	
EASEMENT LINE	
BENCH MARK	
CONTROL ELEVATION	
MONUMENT	
EXISTING SPOT ELEVATION	
PROPOSED GROUND ELEVATION	
PROPOSED PAVEMENT ELEVATION	
EXISTING CONTOUR	
FINISH CONTOUR	
EMBANKMENT	
SURFACE DRAINAGE	
FENCE	
MISCELLANEOUS UTILITY	
ABANDONED	
DEMOLITION / REMOVAL	

REFERENCE SYMBOLS	
SECTION REFERENCE	
DETAIL REFERENCE	
SECTION TITLE	
DETAIL TITLE	

HATCHING LEGEND	
OPEN CUT, PERMANENT SUBGRADE AND BASE REPLACEMENT, TEMPORARY ASPHALT SURFACE (1.5" THICK MIN.)	
ROADWAY/SIDEWALK REMOVE AND REPLACE	
SODDED OR SEEDED AND MULCHED AREA OR EXISTING WETLAND	
EARTH	
EXISTING PIPES, STRUCTURES, EQUIPMENT TO BE REMOVED	
CAST-IN-PLACE CONCRETE	

MECHANICAL/DRAFTING LEGEND	
EXISTING	
PROPOSED	
VISIBLE LINE	
HIDDEN LINE	
CENTER LINE	
LONG BREAK LINE	
SHORT BREAK LINE	
DIMENSION LINES AND LEADERS	
PHANTOM LINE	

PROPOSED PIPE HATCH	
EXISTING	
PROPOSED	
PIPE HATCH (PLAN)	

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ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL
SUMMERLAKE FORCE MAIN AND
RECLAIMED WATER MAIN

LEGEND AND
ABBREVIATIONS

Project No.: 200-10034-16002
Designed By: JMA
Drawn By: WDV
Checked By: DLA

DATE

G002

Bar Measures 1 inch

SITE DESCRIPTION

SITE LOCATION & DESCRIPTION:
SUMMERLAKE PARK BOULEVARD, BETWEEN FICQUETTE ROAD AND SEIDEL ROAD.
TOTAL SITE AREA:
TOTAL DISTURBED AREA:
NATURE OF CONSTRUCTION ACTIVITY:
SEQUENCE OF CONSTRUCTION AND SOIL DISTURBING ACTIVITIES:
POTENTIAL POLLUTANTS ONSITE:
EXISTING SOIL DATA

POLLUTION SOURCE CONTROLS

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES:
STRUCTURAL PRACTICES:
STORMWATER MANAGEMENT CONTROLS & BEST MANAGEMENT PRACTICES
WASTE, SANITARY, AND SEPTIC TANK DISPOSAL CONTROLS
WASTE COLLECTION AREAS ARE TO BE MAINTAINED AND ARE TO BE LOCATED IN LOCATIONS LEAST LIKELY TO BE AFFECTED BY CONCENTRATED STORMWATER RUNOFF.
ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED ON SITE FOR WORKERS IN ACCORDANCE WITH APPLICABLE HEALTH REGULATIONS.

NON-STORMWATER DISCHARGES

NON-STORMWATER DISCHARGES WHICH MUST BE IDENTIFIED ON THE POLLUTION PREVENTION PLAN INCLUDE:
FIRE HYDRANT FLUSHINGS
WATERS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES OR CONTROL DUST
IRRIGATION DRAINAGE
ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS
PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED AND WHERE DETERGENTS ARE NOT USED.

APPROVED STATE OR LOCAL PLANS

ALL REQUIREMENTS APPLICABLE TO PROTECTION OF SURFACE WATER QUALITY, SEDIMENT, AND EROSION CONTROL STATED AS GENERAL AND/OR SPECIFIC PROJECT CONDITIONS OF STATE, REGIONAL AND/OR LOCAL ENVIRONMENTAL RESOURCE PERMITS FOR THE PROJECT ARE INCLUDED AS PART OF THIS PLAN.
LOCAL WMD PERMIT NO.
FOOT DRAINAGE PERMIT NO.

MAINTENANCE

A REGULAR MAINTENANCE PROGRAM SHOULD INSURE INSPECTION AND MAINTENANCE OF BMPs BY THE CONTRACTOR WEEKLY AND/OR AFTER SIGNIFICANT RAIN EVENTS.
EXAMPLE MAINTENANCE ROUTINES INCLUDE:
SILT BARRIERS:
SEDIMENT TRAPS:
TURBIDITY BARRIERS:

INSPECTIONS

QUALIFIED PERSONNEL (PROVIDED BY THE DISCHARGER) SHALL INSPECT ALL POINTS OF DISCHARGE INTO WATERS OF THE U.S. OR TO A MUNICIPAL SEWER SYSTEM AND ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
SITE OPERATOR'S NPDES INSPECTION REPORT FORM
INSPECTOR: DATE/TIME:
DATE OF LAST RAINFALL: RAINFALL AMOUNT:
DISCHARGE LOCATIONS: WHERE ACCESSIBLE, INSPECT TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE.
FINDING:
DISTURBED AREAS: INSPECT FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE STORM WATER SYSTEM.
FINDING:
MATERIALS STORAGE AREAS: INSPECT FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE STORM WATER SYSTEM.
FINDING:
STRUCTURAL CONTROL DEVICES: INSPECT TO ENSURE PROPER OPERATION.
FINDING:
VEHICLE INGRESS/EGRESS LOCATIONS: INSPECT FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
FINDING:
STORM WATER MANAGEMENT FACILITIES: INSPECT TO ENSURE PROPER INSTALLATION.
FINDING:
RECOMMENDED REVISIONS TO PPP BASED ON THIS REPORT:
REVISIONS TO BE COMPLETED ON OR BEFORE: BY: BY:

CERTIFICATION

OWNER/OPERATOR'S CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED.
CONTRACTOR/SUBCONTRACTOR CERTIFICATION
ANY AND ALL CONTRACTORS AND SUBCONTRACTORS LISTED IN THE POLLUTION PREVENTION PLAN MUST COMPLETE THE FOLLOWING CERTIFICATION TO BE KEPT WITH THE PLAN.
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE FINAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, PUBLISHED IN THE FEDERAL REGISTER ON MARCH 31, 1998, THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

Table with columns: CONTRACTOR/SUB-CONTRACTOR COMPANY NAME, AUTHORIZED REPRESENTATIVE (PRINT NAME/TITLE), SIGNATURE, DATE, PHONE NO.

REFERENCES

FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION)



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Engineering Business No. 2429

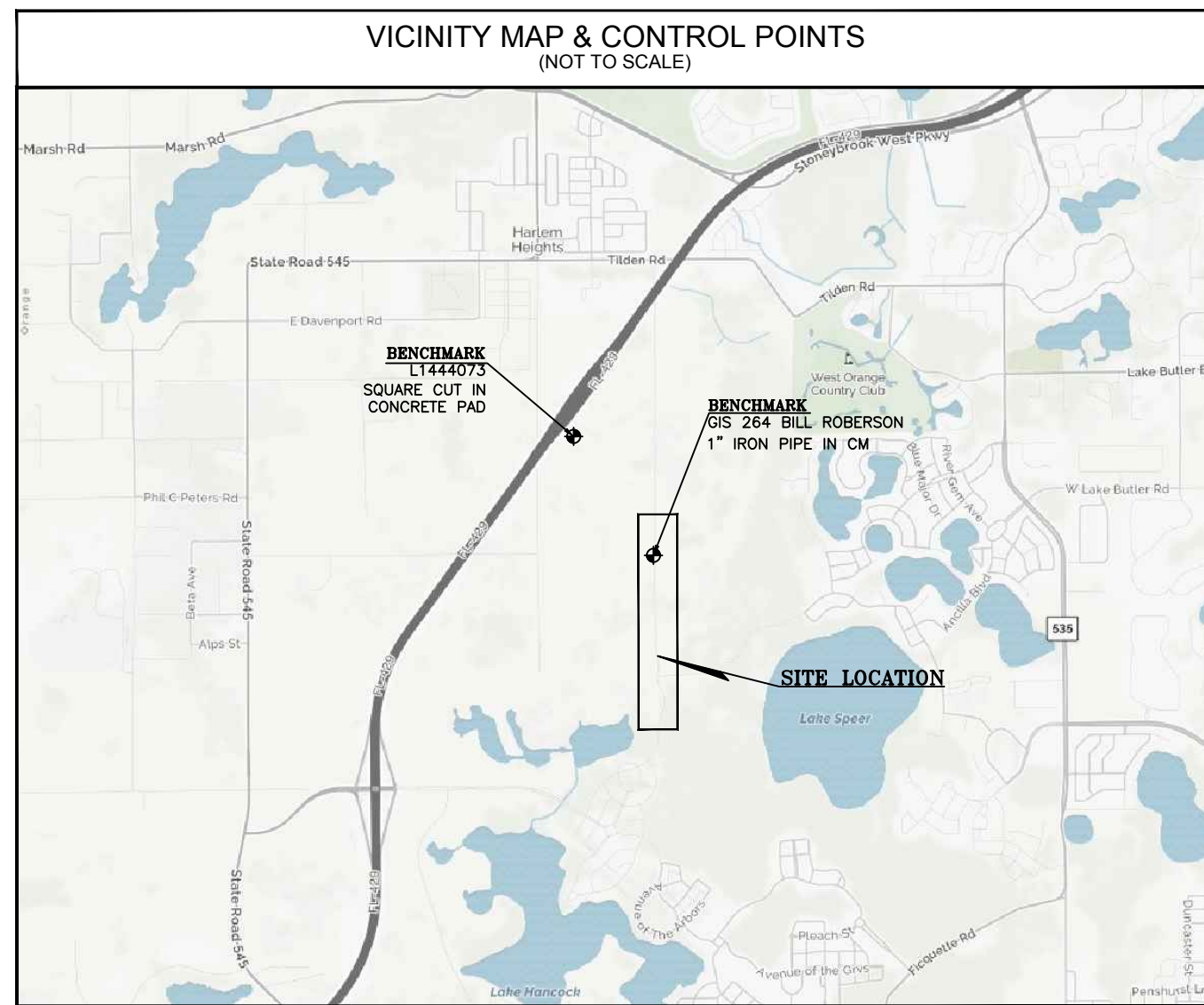
BID SET

Table with columns: BY, DATE, MARK, DESCRIPTION

ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL
SUMMERLAKE FORCE MAIN AND
RECLAIMED WATER MAIN
SWPPP

Project No.: 200-10034-16002
Designed By: JMA
Drawn By: WDV
Checked By: DLA

G004



CONTROL SURVEY

A PORTION OF TINY ROAD LOCATED IN SECTION 16, TOWNSHIP 27 EAST, RANGE 23 SOUTH ORANGE COUNTY, FLORIDA.

LEGEND:

- PB PLAT BOOK
- ORB OFFICIAL RECORDS BOOK
- PG PAGE NUMBER
- R/W RIGHT-OF-WAY
- IRC IRON REBAR & CAP
- N&D NAIL & DISC
- CM CONCRETE MONUMENT
- PID PARCEL ID
- ⊙ SURVEY CONTROL POINT
- ◐ FOUND IRON REBAR
- △ FOUND NAIL & DISC

SURVEYOR'S NOTES:

1. THIS CONTROL SURVEY IS ACCOMPANIED BY A SIGNED AND SEALED SURVEYOR'S REPORT AND NEITHER IS COMPLETE WITHOUT THE OTHER.
2. GRAPHIC SYMBOLS, SHOWN HEREON, ARE NOT SHOWN TO SCALE.
3. LAST DAY IN THE FIELD: MAY 31, 2016

DATUM REFERENCE:

HORIZONTAL DATUM:

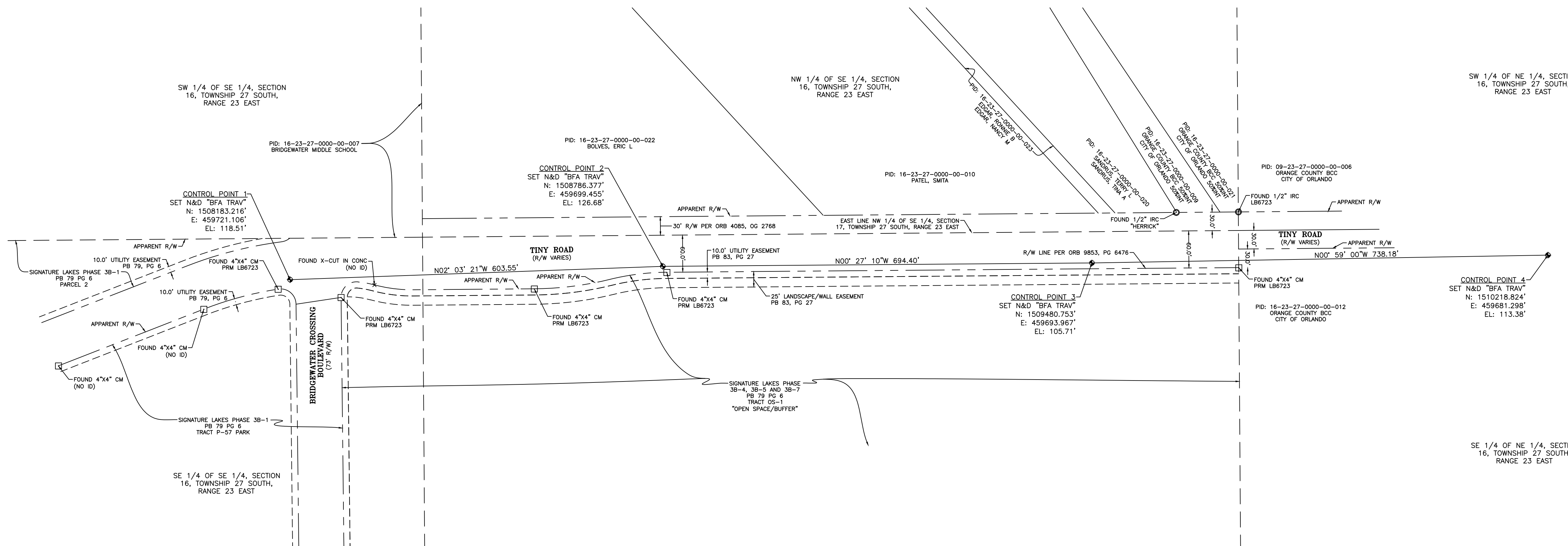
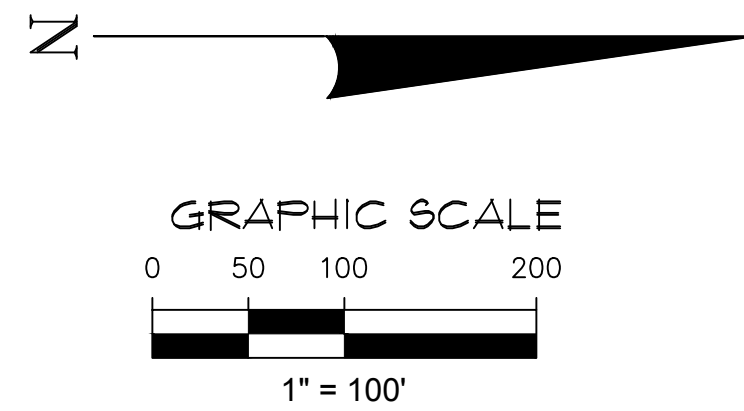
COORDINATE VALUES AND BEARINGS FOR THIS PROJECT ARE IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983/1990 ADJUSTMENT, EXPRESSED IN U.S. SURVEY FEET.

VERTICAL DATUM:

ALL VERTICAL CONTROL IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), EXPRESSED IN U.S. SURVEY FEET.

PUBLISHED CONTROL POINTS:

- HORIZONTAL CONTROL POINTS:**
- GPS 18 LAKE - SURVEY DISC SET IN TOP OF CONCRETE MONUMENT
NORTHING: 1495980.974'
EASTING: 425033.396'
 - K028 - STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
NORTHING: 1459257.842'
EASTING: 390215.334'
 - RTMP 21 - SURVEY DISC SURROUNDED BY MASS OF CONCRETE
NORTHING: 1457564.544'
EASTING: 389275.314'
 - GIS 0114 BLOUNT SIKES ASSOC 2 - SURVEY DISC SET IN TOP OF CONCRETE MONUMENT
NORTHING: 1538825.828'
EASTING: 474171.744'
 - R 733 - STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
NORTHING: 1443110.135'
EASTING: 514149.958'
 - GIS 146 RESET - SURVEY DISK SET IN TOP OF CONCRETE MONUMENT
NORTHING: 1475306.425'
EASTING: 493426.945'
- VERTICAL CONTROL POINTS:**
- GIS 264 BILL ROBERSON
1" IRON PIPE IN CONCRETE MONUMENT IN FRONT OF 5534 TINY ROAD
ELEVATION = 131.125'
 - 11444073
SQUARE CUT IN CONCRETE PAD FOR POWER BOX ON WEST SIDE OF POWER BOX, 25± EAST OF C/L OF MANN ROAD & 300± SOUTH OF C/L OF TOLL ROAD 429
ELEVATION = 116.51'



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BID SET

MARK	DATE	DESCRIPTION	BY

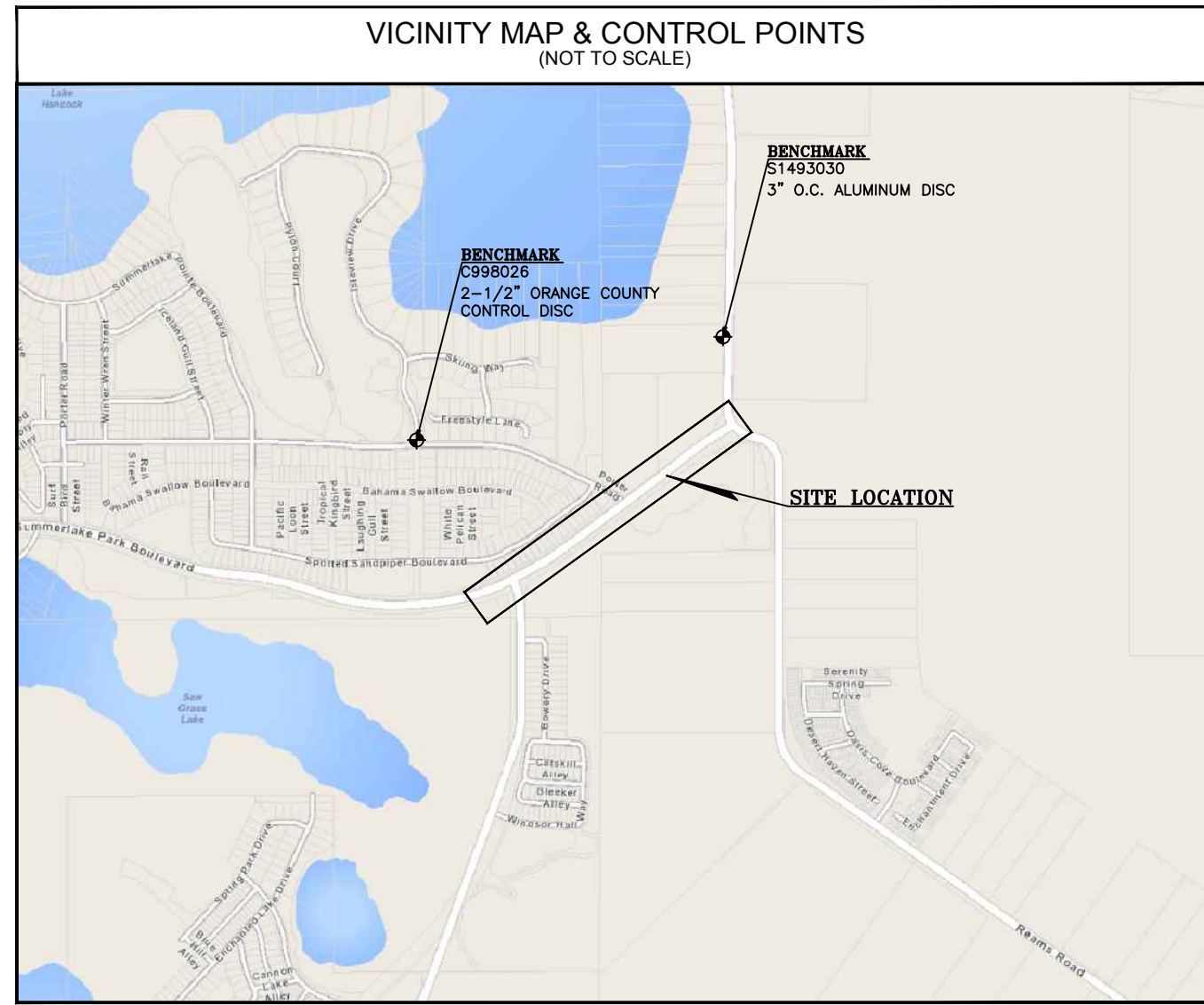
ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL
SUMMERLAKE FORCE MAIN AND
RECLAIMED WATER MAIN
TINY ROAD
CONTROL SURVEY

Project No.: 200-10034-16002
Designed By: JMA
Drawn By: JDV
Checked By: DLA

V001

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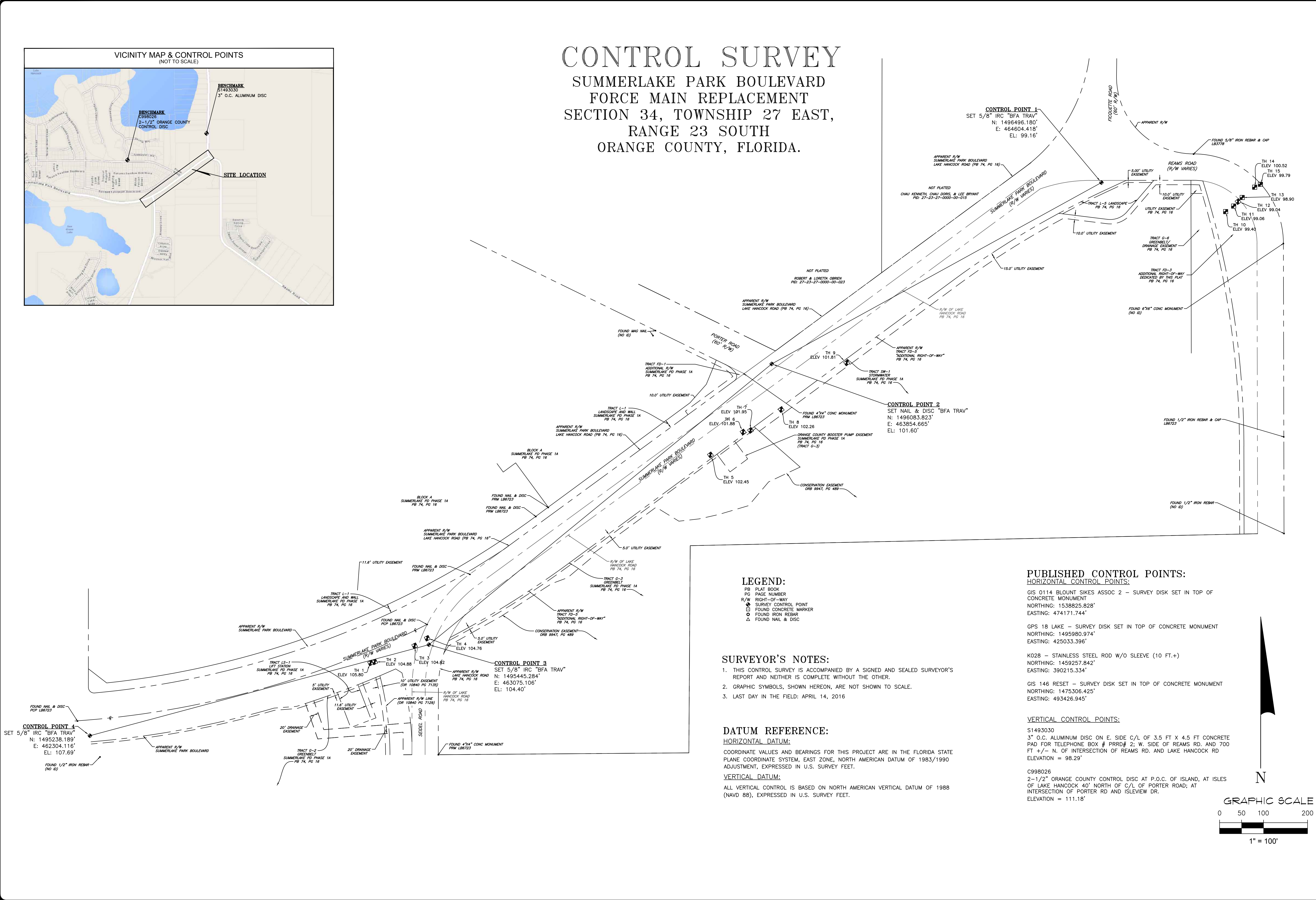
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CONTROL SURVEY

SUMMERLAKE PARK BOULEVARD FORCE MAIN REPLACEMENT SECTION 34, TOWNSHIP 27 EAST, RANGE 23 SOUTH ORANGE COUNTY, FLORIDA.

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LEGEND:

- PB PLAT BOOK
- PG PAGE NUMBER
- R/W RIGHT-OF-WAY
- ⊕ SURVEY CONTROL POINT
- FOUND CONCRETE MARKER
- FOUND IRON REBAR
- △ FOUND NAIL & DISC

SURVEYOR'S NOTES:

1. THIS CONTROL SURVEY IS ACCOMPANIED BY A SIGNED AND SEALED SURVEYOR'S REPORT AND NEITHER IS COMPLETE WITHOUT THE OTHER.
2. GRAPHIC SYMBOLS, SHOWN HEREON, ARE NOT SHOWN TO SCALE.
3. LAST DAY IN THE FIELD: APRIL 14, 2016

DATUM REFERENCE:

HORIZONTAL DATUM:
COORDINATE VALUES AND BEARINGS FOR THIS PROJECT ARE IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983/1990 ADJUSTMENT, EXPRESSED IN U.S. SURVEY FEET.

VERTICAL DATUM:
ALL VERTICAL CONTROL IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), EXPRESSED IN U.S. SURVEY FEET.

PUBLISHED CONTROL POINTS:

HORIZONTAL CONTROL POINTS:
GIS 0114 BLOUNT SIKES ASSOC 2 - SURVEY DISK SET IN TOP OF CONCRETE MONUMENT
NORTHING: 1538825.828'
EASTING: 474171.744'

GPS 18 LAKE - SURVEY DISK SET IN TOP OF CONCRETE MONUMENT
NORTHING: 1495980.974'
EASTING: 425033.396'

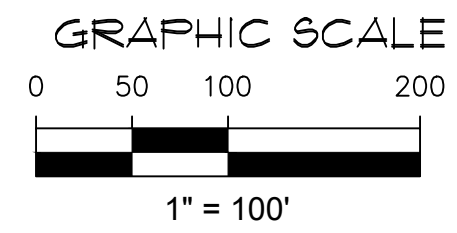
K028 - STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
NORTHING: 1459257.842'
EASTING: 390215.334'

GIS 146 RESET - SURVEY DISK SET IN TOP OF CONCRETE MONUMENT
NORTHING: 1475306.425'
EASTING: 493426.945'

VERTICAL CONTROL POINTS:

S1493030
3" O.C. ALUMINUM DISC ON E. SIDE C/L OF 3.5 FT X 4.5 FT CONCRETE PAD FOR TELEPHONE BOX # PRRD# 2; W. SIDE OF REAMS RD. AND 700 FT +/- N. OF INTERSECTION OF REAMS RD. AND LAKE HANCOCK RD
ELEVATION = 98.29'

C998026
2-1/2" ORANGE COUNTY CONTROL DISC AT P.O.C. OF ISLAND, AT ISLES OF LAKE HANCOCK 40' NORTH OF C/L OF PORTER ROAD; AT INTERSECTION OF PORTER RD AND ISLEVIEW DR.
ELEVATION = 111.18'



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DATE

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BY	DESCRIPTION	DATE	MARK

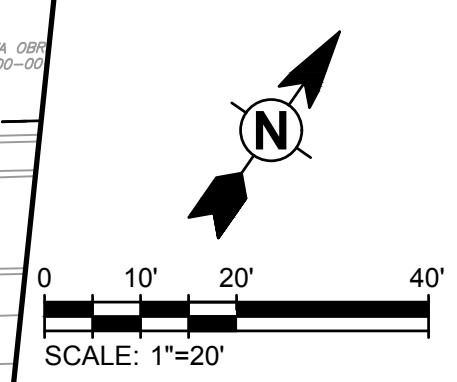
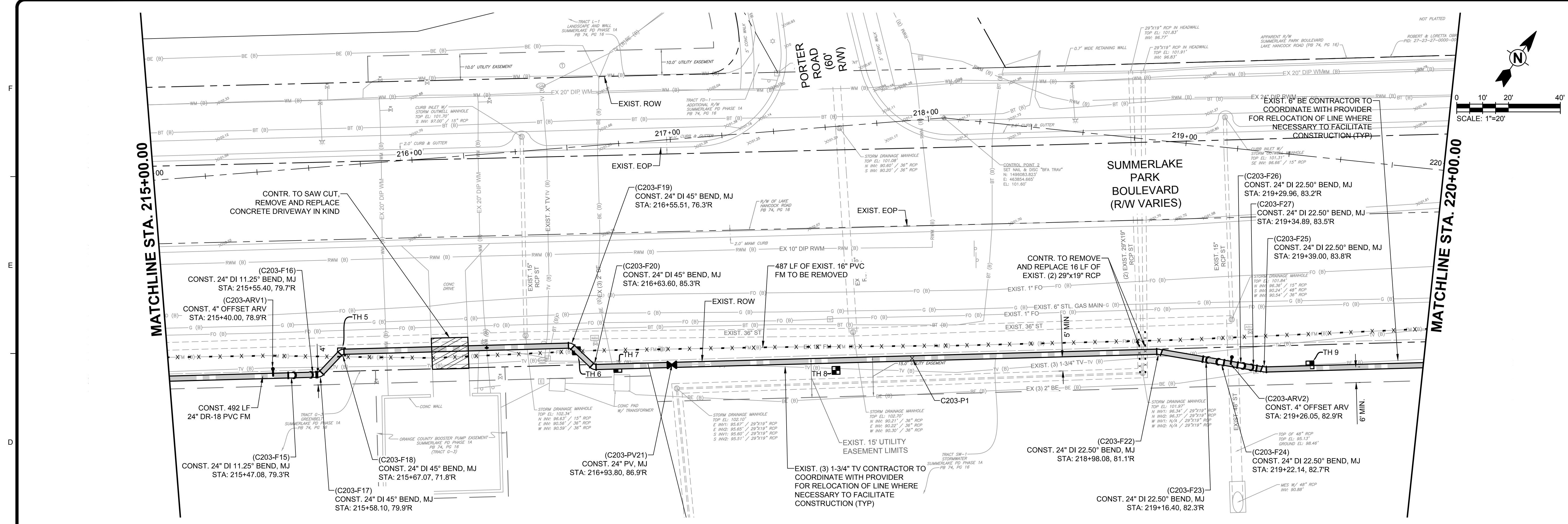
ORANGE COUNTY UTILITIES
 ORANGE COUNTY, FL
 SUMMERLAKE FORCE MAIN AND
 RECLAIMED WATER MAIN

SUMMERLAKE PARK BLVD
 CONTROL SURVEY

Project No.: 200-10034-16002
 Designed By: JMA
 Drawn By: JWD
 Checked By: DLA

V002

Bar Measures 1 inch

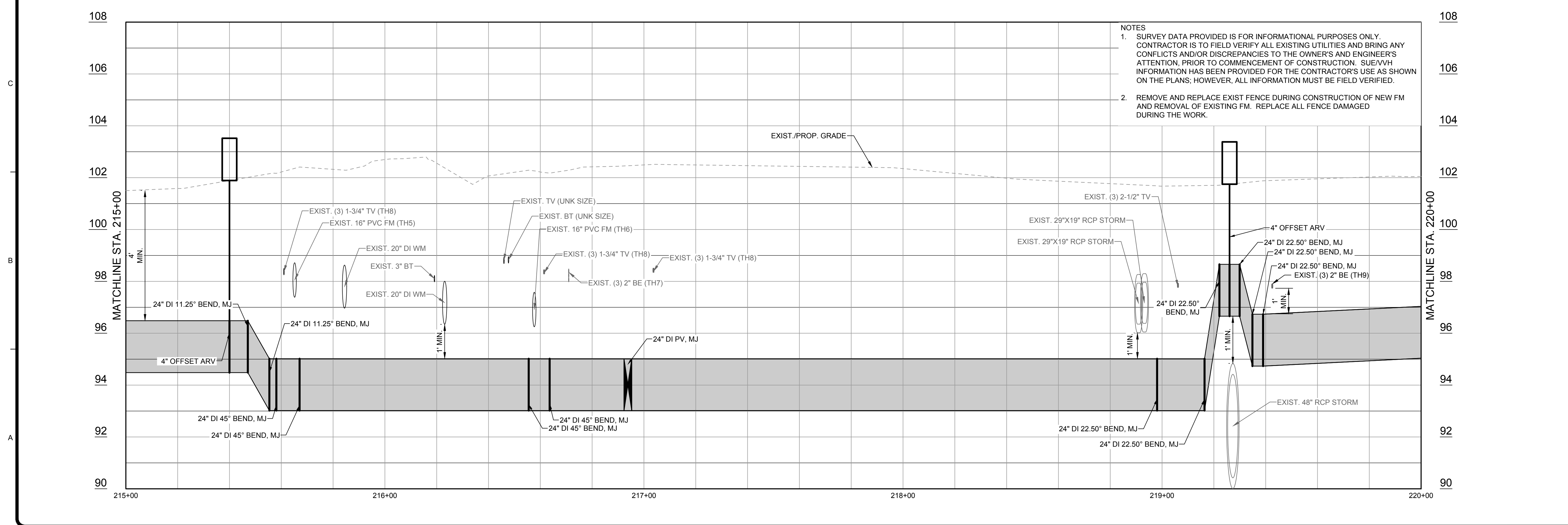


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Engineering Business No. 2429

BID SET

DATE



- NOTES**
1. SURVEY DATA PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITIES AND BRING ANY CONFLICTS AND/OR DISCREPANCIES TO THE OWNER'S AND ENGINEER'S ATTENTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION. SUE/VVH INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S USE AS SHOWN ON THE PLANS; HOWEVER, ALL INFORMATION MUST BE FIELD VERIFIED.
 2. REMOVE AND REPLACE EXIST FENCE DURING CONSTRUCTION OF NEW FM AND REMOVAL OF EXISTING FM. REPLACE ALL FENCE DAMAGED DURING THE WORK.

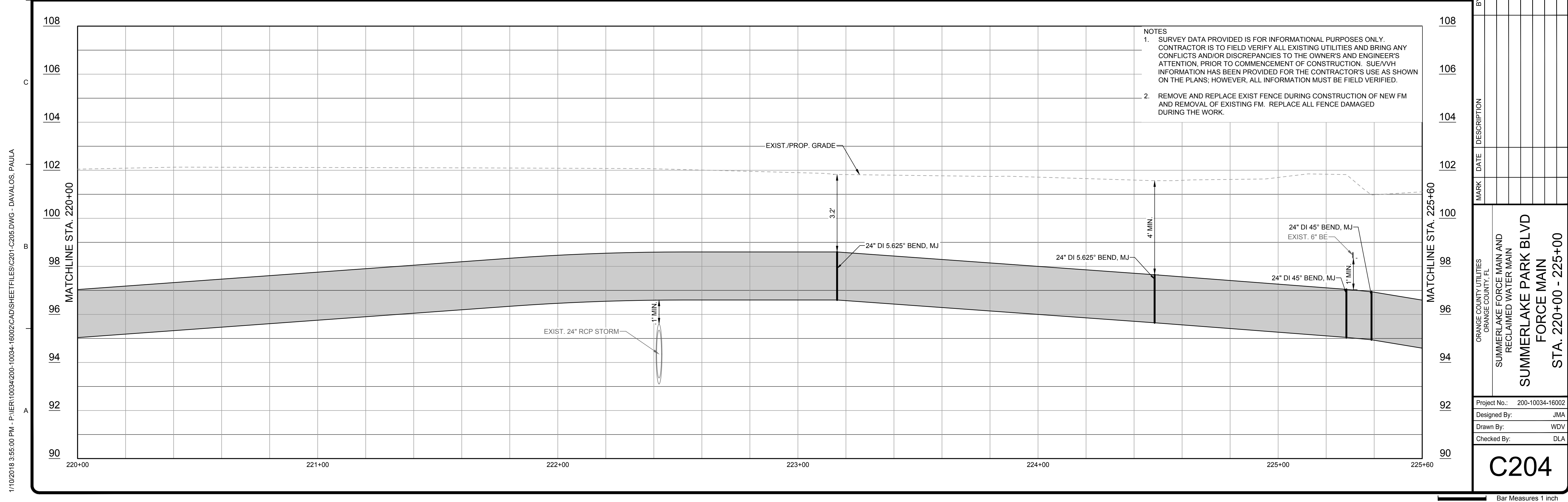
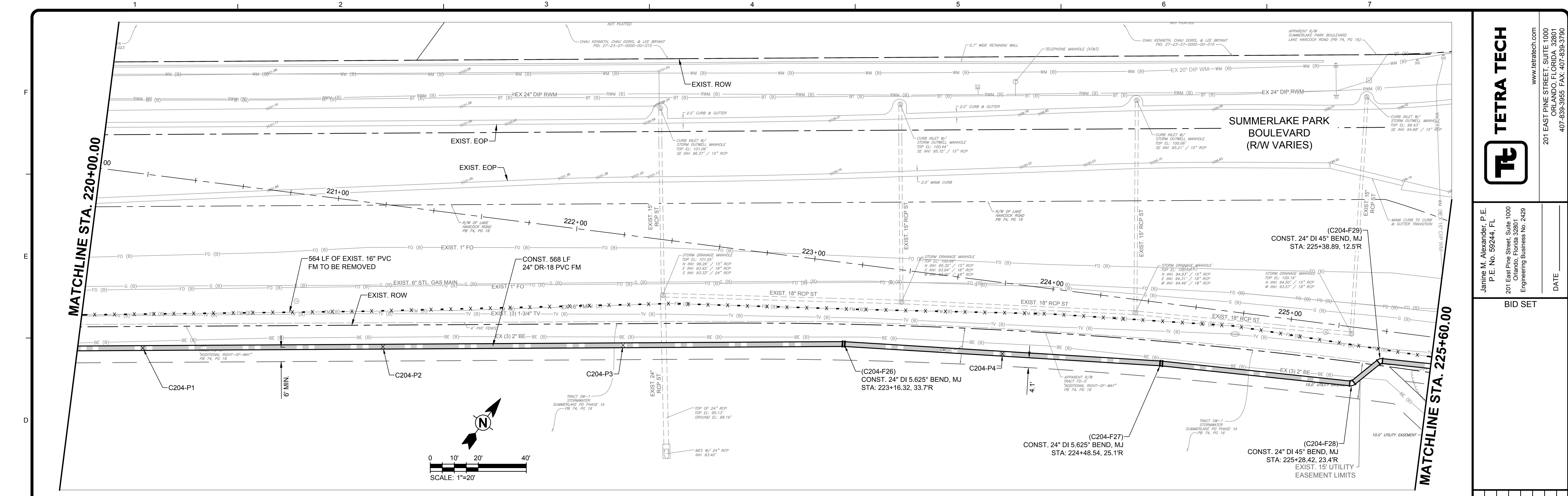
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BY	DATE	DESCRIPTION

ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL
SUMMERLAKE FORCE MAIN AND
RECLAIMED WATER MAIN
SUMMERLAKE PARK BLVD
FORCE MAIN
STA. 215+00 - 220+00

Project No.: 200-10034-16002
Designed By: JMA
Drawn By: WDV
Checked By: DLA

C203



- NOTES
1. SURVEY DATA PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITIES AND BRING ANY CONFLICTS AND/OR DISCREPANCIES TO THE OWNER'S AND ENGINEER'S ATTENTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION. SUE/VVH INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S USE AS SHOWN ON THE PLANS; HOWEVER, ALL INFORMATION MUST BE FIELD VERIFIED.
 2. REMOVE AND REPLACE EXIST FENCE DURING CONSTRUCTION OF NEW FM AND REMOVAL OF EXISTING FM. REPLACE ALL FENCE DAMAGED DURING THE WORK.

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DATE

ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL

**SUMMERLAKE PARK BLVD
FORCE MAIN
STA. 220+00 - 225+00**

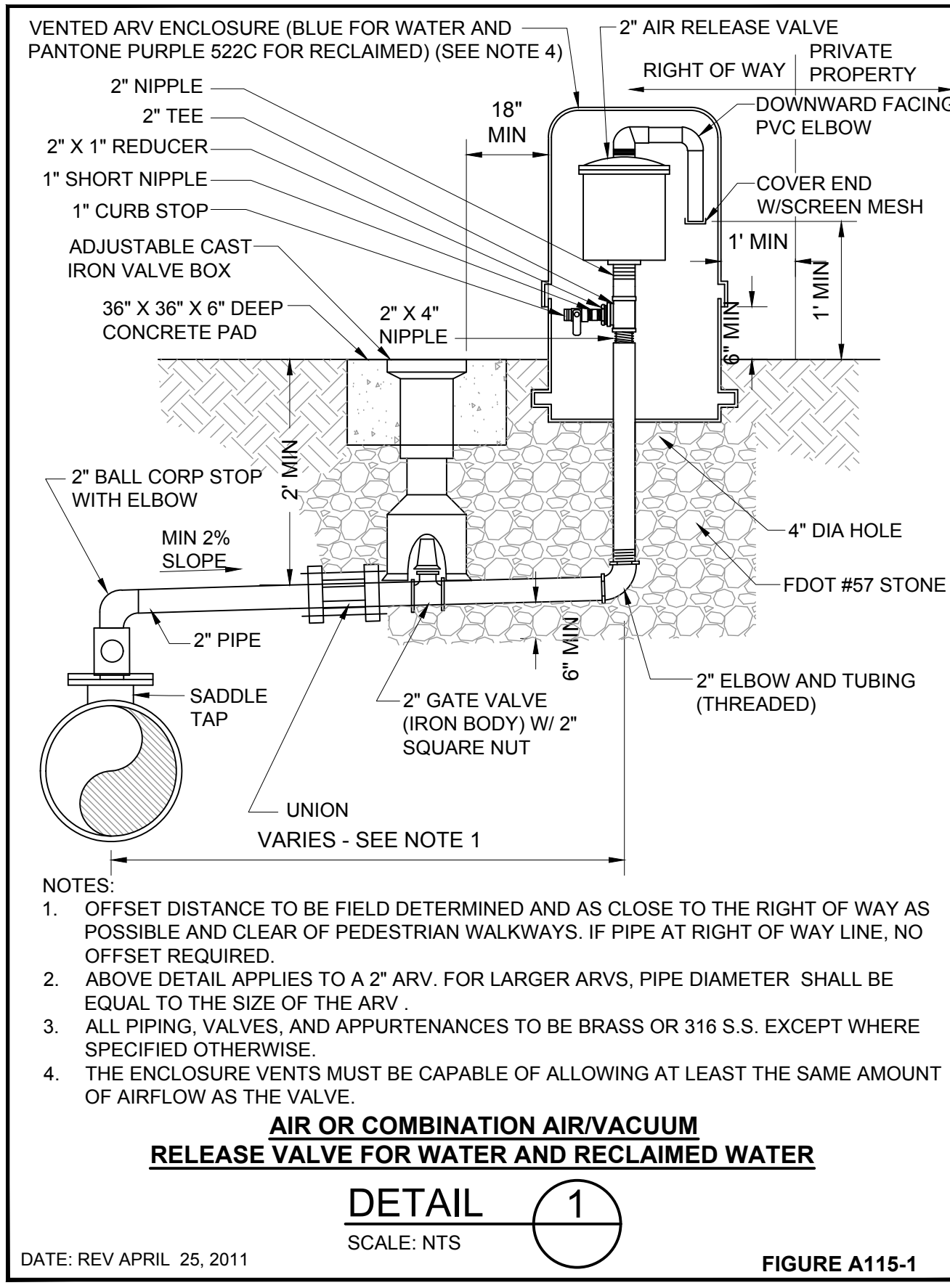
Project No.: 200-10034-16002
Designed By: JMA
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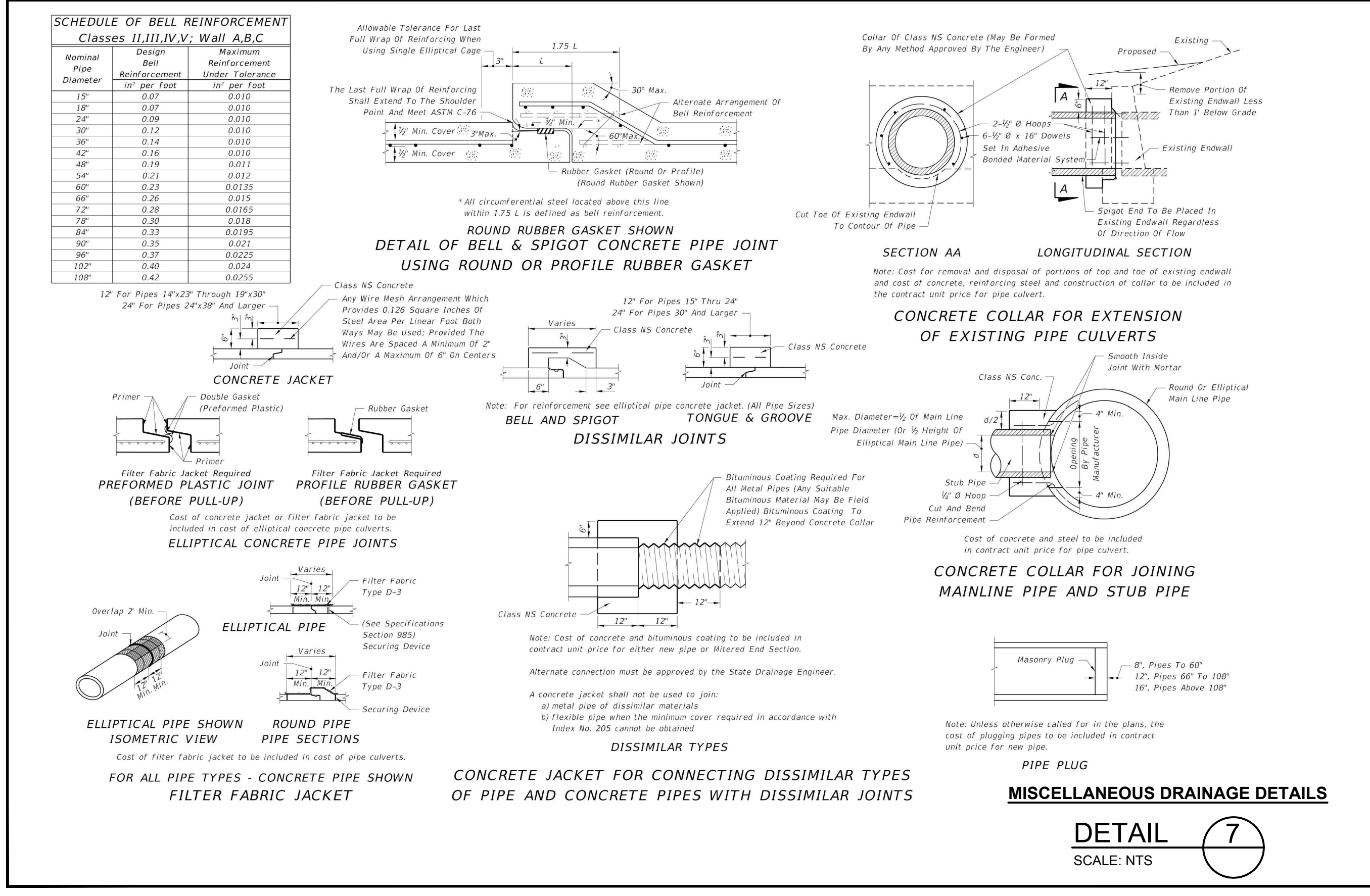
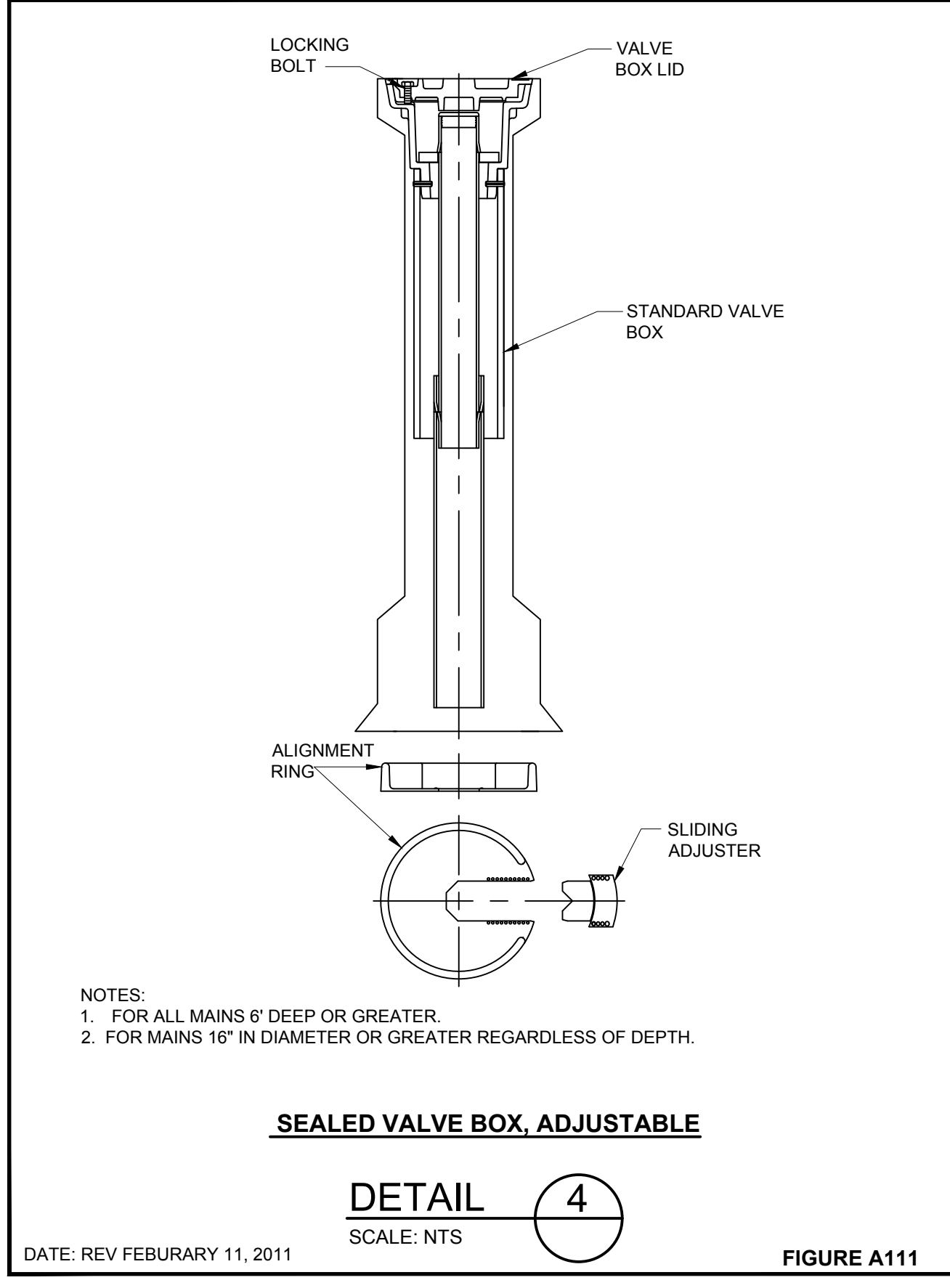
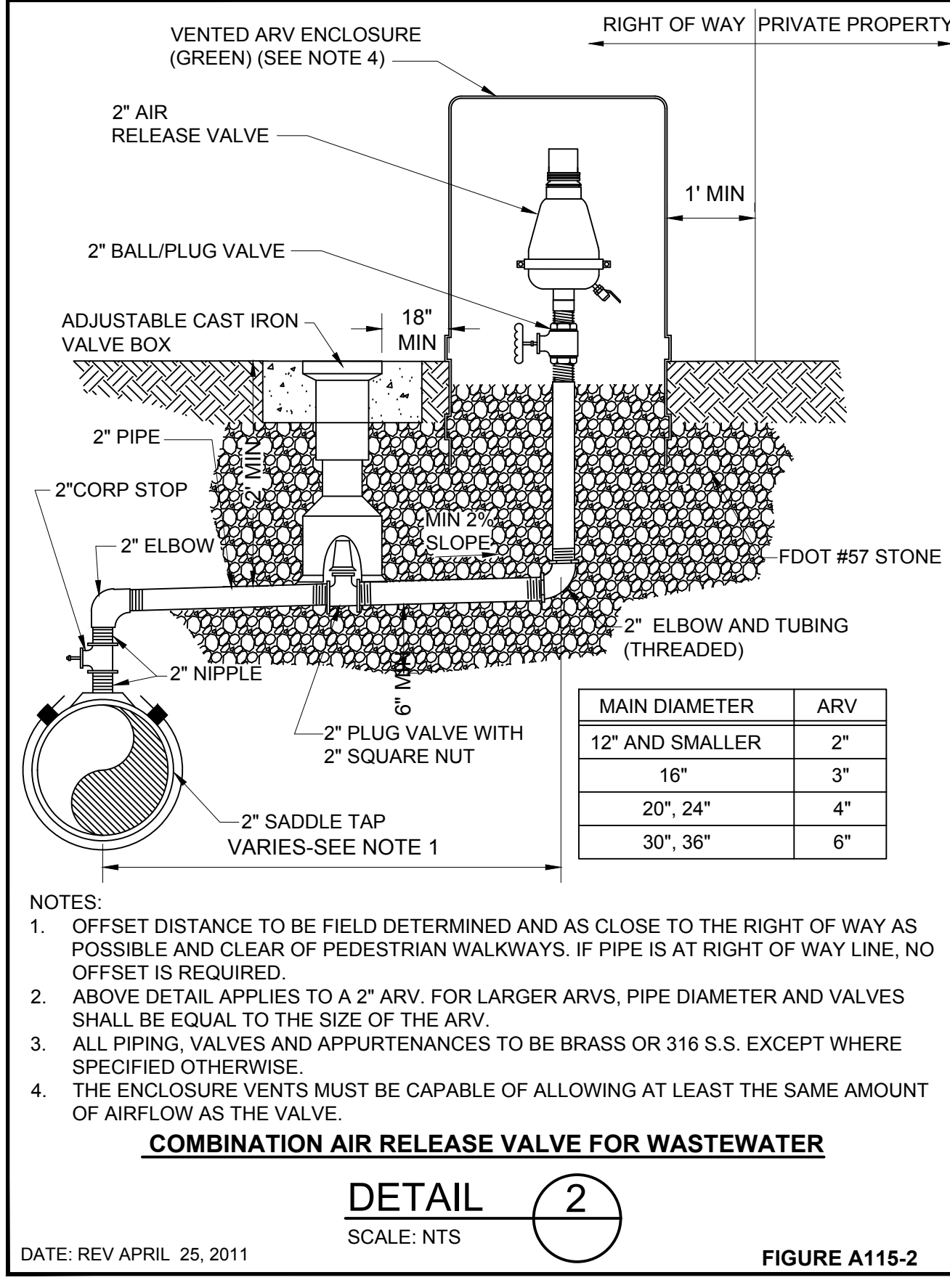
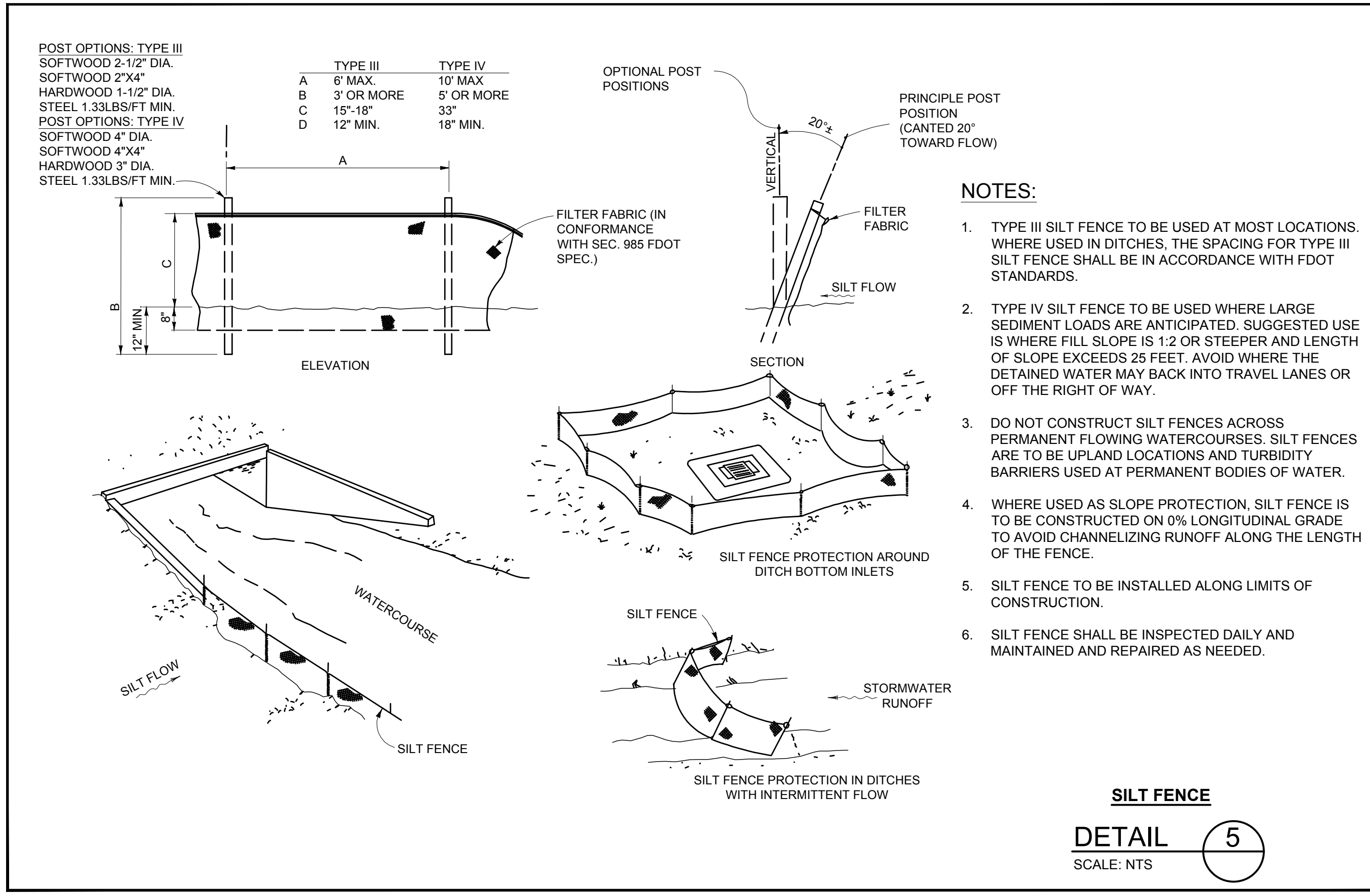
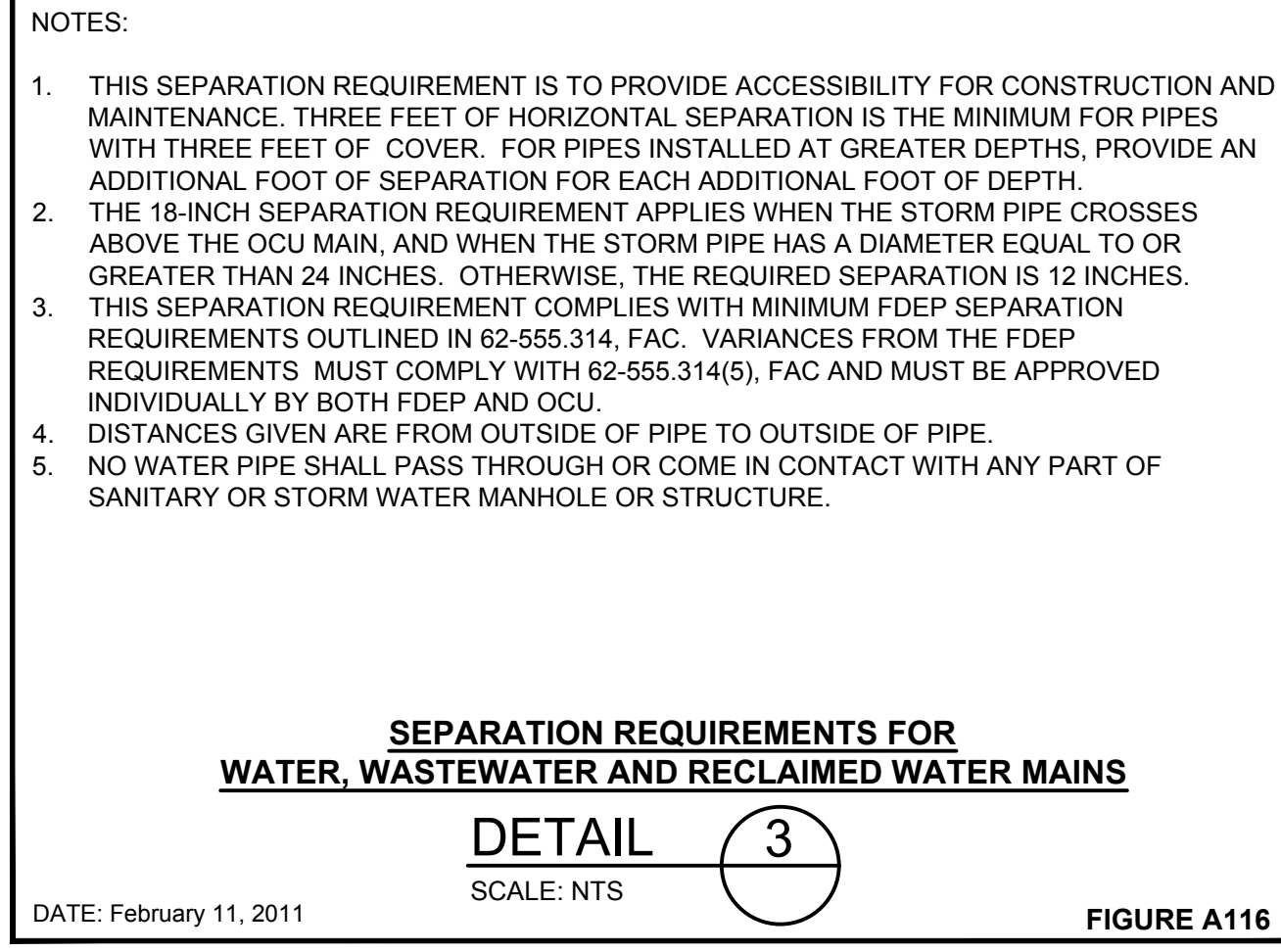
Bar Measures 1 inch

Bar Measures 1 inch



HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER	
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT
POTABLE WATER	3' NOTE 1	12"	3' NOTE 1 & 3	12" NOTE 3	6' NOTE 3	12" NOTE 3	3' NOTE 1 & 3	12"/18" NOTE 2 & 3
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
RIGHT OF WAY	3' NOTE 1	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A



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Engineering Business No. 2429

BID SET

DATE

ORANGE COUNTY UTILITIES
ORANGE COUNTY, FL
SUMMERLAKE FORCE MAIN AND
RECLAIMED WATER MAIN

DETAILS

Project No.: 200-10034-16002
Designed By: JMA
Drawn By: WDV
Checked By: DLA

D503
Bar Measures 1 inch