

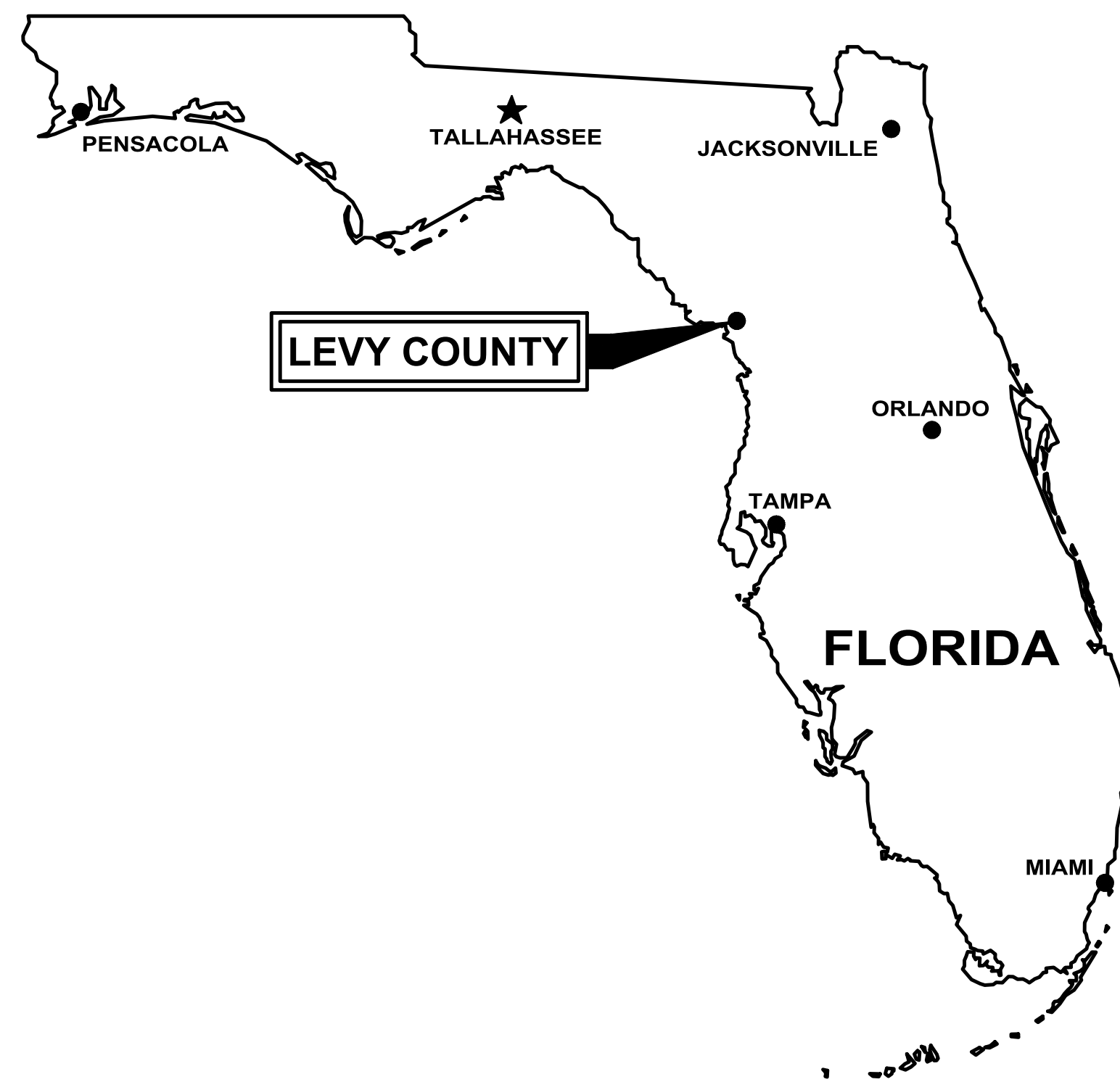
LEVY COUNTY, FLORIDA

CONTRACT DRAWINGS FOR

UNIVERSITY OAKS PHASE IV WATER MAIN IMPROVEMENTS

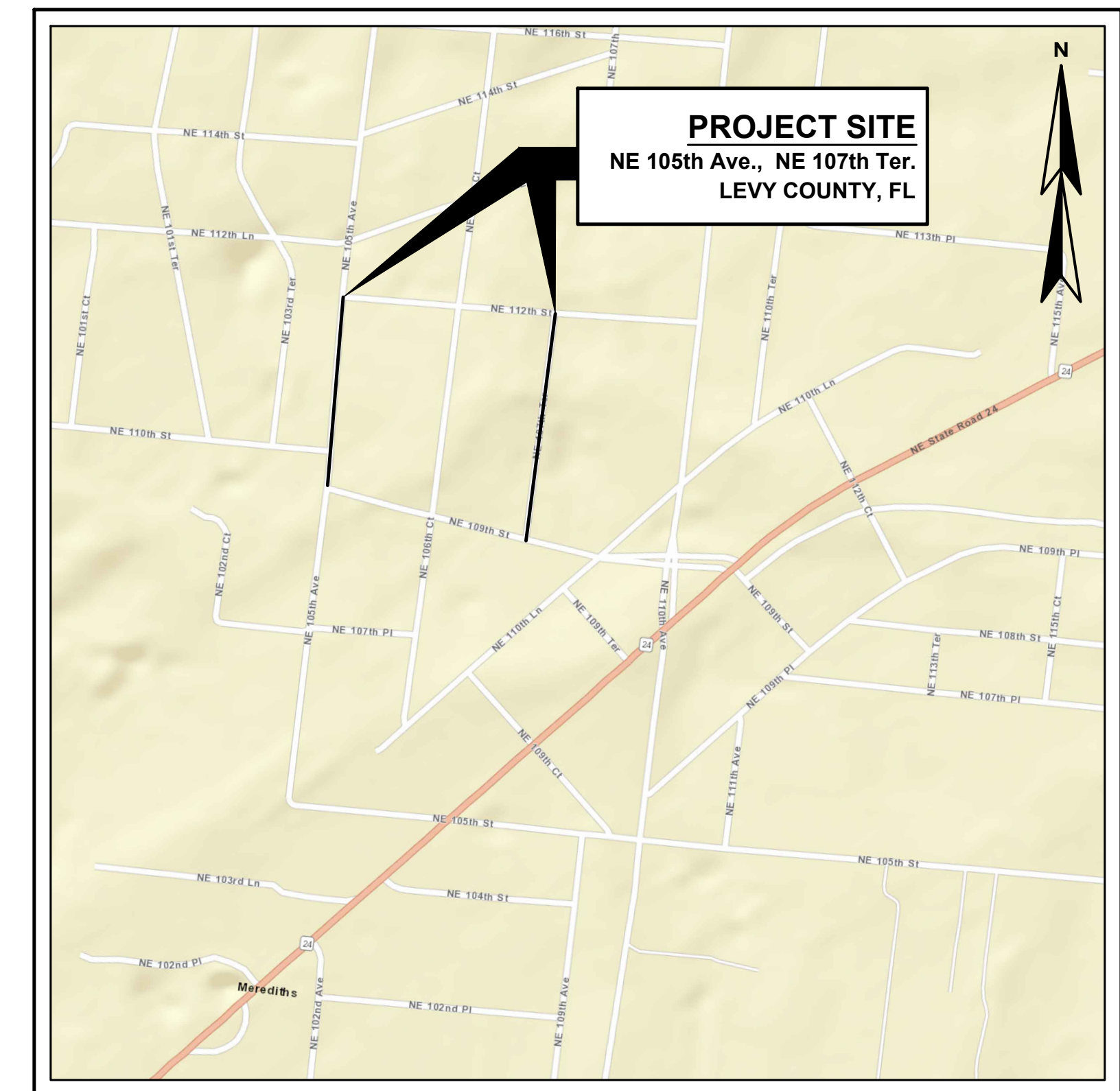
JANUARY 2026

BID DOCUMENTS



DRAWING INDEX

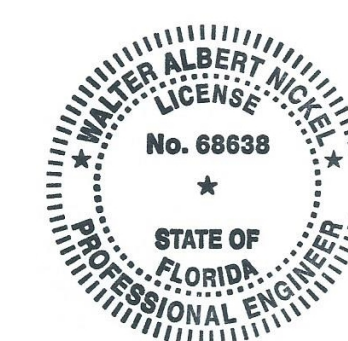
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LOCATION PLAN
SCALE: 1"=2,000'

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GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH THE MUTCD AND ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER PRIOR TO COMMENCING CONSTRUCTION. THE POLICE DEPARTMENT AND FIRE DEPARTMENT ARE TO BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF ANY STREET CLOSING OR DETOUR. REFER TO SPECIFICATION SECTION 01570.
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
3. CONTRACTOR SHALL COMPLY WITH THE COORDINATION REQUIREMENTS AND RELATED COSTS, IF ANY, AS SPECIFIED IN SPECIFICATION SECTION 01050.
4. CONTRACTOR SHALL NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.
5. ALL EXISTING SEWER AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING SEWERS, STORM DRAIN LINES OR CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, EXCEPT WHEN IN DIRECT CONFLICT WITH THE NEW WATER LINE OR WHEN NOT SHOWN OR INDICATED.
6. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
7. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO THE RESPECTIVE UTILITY POLE OWNER. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
8. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE PLANS. TESTS PITS ARE REQUIRED WHERE SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE ENGINEER. TEST PITS WILL BE DUG AT LEAST 10 CALENDAR DAYS PRIOR TO CONNECTING PROPOSED SEWERS TO EXISTING SEWERS. THE RESULTS OF TEST PITS DUG TO DETERMINE EXISTING SEWER ELEVATIONS AND LOCATIONS WILL BE REPORTED TO THE ENGINEER AT LEAST 10 CALENDAR DAYS PRIOR TO ANY WORK. ADJUSTMENTS TO INVERTS, LENGTHS AND SLOPES OF PROPOSED SEWER MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. THE HORIZONTAL ALIGNMENT OF THE NEW SEWERS AND WATER MAINS MAY BE ADJUSTED IN THE FIELD SUBJECT TO PRIOR APPROVAL OF THE ENGINEER. SUBSURFACE UTILITY EXPLORATION TEST HOLE DATA COLLECTED DURING DESIGN HAS BEEN INCLUDED IN APPENDIX B OF THE SPECIFICATIONS FOR REFERENCE.
9. INITIAL PAVING SHALL BE CONDUCTED WITHIN TWO WEEKS OF COMPLETION OF PLACEMENT OF FINAL BACKFILL UNLESS OTHERWISE AUTHORIZED BY ENGINEER. INITIAL PAVEMENT SHALL BE INSTALLED AND MAINTAINED BY CONTRACTOR FOR A MINIMUM PERIOD OF TWO MONTHS BEFORE FINAL PAVEMENT IS PLACED. FINAL PAVEMENT MAY BE PLACED OVER THE INITIAL PAVING PROVIDED INITIAL PAVING COURSE IS IN GOOD REPAIR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND SHIMMING THE INITIAL PAVEMENT AS NECESSARY TO ACCEPT THE FINAL PAVING COURSE. IF CONDITIONS WARRANT, THE CONTRACTOR MAY BE REQUIRED TO REMOVE AND REPLACE INITIAL PAVING PRIOR TO FINAL PAVING.

EXISTING SITE CONDITIONS

- 1. THE LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES, AS SHOWN ON THE DRAWINGS, ARE APPROXIMATE AND MAY NOT BE COMPLETE. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN, OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. THE CONTRACTOR WILL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER.
2. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED IN SURVEY LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO SPECIFICATION SECTION 01050. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. UTILITY CONTACTS ARE AS FOLLOWS:

Table with 2 columns: Utility Name, Contact Information. Includes Levy County Utilities, Duke Energy, Doug Partin, Director, 319 MONGO STREET, BRONSON, FL 32521, 352-486-5376; and Duke Energy, 452 E. CROWN POINTE ROAD, WINTER GARDEN, FL 33787, 850-342-2291.

- 3. THERE ARE NO KNOWN HAZARDOUS ENVIRONMENTAL CONDITIONS WITHIN THE AREA OF WORK. REFER TO SPECIFICATION SECTION 00800-SC-5.06. IF THE PRESENCE OF HAZARDOUS ENVIRONMENTAL CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER IMMEDIATELY. ALL ACTIVITIES, HANDLING AND DISPOSAL OF HAZARDOUS ENVIRONMENTAL CONDITIONS AND MATERIALS SHALL BE IN ACCORDANCE WITH OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.

SITE DEMOLITION

- 1. A SOLID GRAY HATCH HIGHLIGHTS AND REPRESENTS DEMOLITION ON AN ITEM(S) IN THE AREA ASSOCIATED WITH THE HATCH.
2. REFER TO SPECIFICATION SECTION 01010B, WHICH CONTAINS INFORMATION ON CONSTRAINTS OF CONSTRUCTION SEQUENCING.
3. DEMOLISH/REMOVE EXISTING PIPING AS REQUIRED FOR CONSTRUCTION OF NEW FACILITIES. ALL PIPING, EQUIPMENT AND MATERIALS TO BE DEMOLISHED AND/OR REMOVED FROM SERVICE SHALL BE COORDINATED WITH THE OWNER AND ENGINEER BEFORE COMMENCING THAT WORK. EXISTING PIPING THAT NEEDS TO BE REMOVED TO CONSTRUCT THE NEW FACILITIES, BUT IS TO REMAIN, SHALL BE REINSTALLED/REPLACED AS NEEDED. EXISTING PIPES AND CONDUIT DESIGNATED AS "ABANDONED" MAY BE REMOVED IF THE CONTRACTOR SO CHOOSES. IF ABANDONED PIPE CONFLICTS WITH NEW SITE PIPING OR FACILITIES, THEN A PORTION OF THE ABANDONED PIPE SHALL BE REMOVED, AND THE NEW ENDS OF ABANDONED PIPE CAPPED OR PLUGGED WITH CONCRETE.
4. SEVERING OF EXISTING UTILITIES FOR ABANDONMENT, OR REMOVAL OF A SEGMENT FROM SERVICE, SHALL BE PERFORMED IN SUCH A MANNER AS TO ALLOW THE REMAINING ACTIVE SEGMENT TO CONTINUE IN ITS INTENDED SERVICE. CAP ACTIVE SEGMENTS WITH APPROPRIATE FITTINGS, JOINT RESTRAINT, ETC. TO ENSURE THEIR INTEGRITY. PLUG ENDS OF ABANDONED PIPE SEGMENTS WITH CONCRETE UNLESS SPECIAL CIRCUMSTANCES DICTATE PLUGGING ABANDONED PIPES WITH BLIND FLANGES, RESTRAINED MECHANICAL JOINT PLUGS, ETC. AS APPROPRIATE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEMOLISHED PIPING AND MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE OWNER RESERVES THE RIGHT TO RETAIN ANY SUCH PIPING AND MATERIALS DESIGNATED FOR DEMOLITION. SUCH MATERIALS TO BE RETAINED SHALL BE PROPERLY STORED IN AN OWNER APPROVED LOCATION. COORDINATE LOCATION AND MATERIALS TO BE SALVAGED WITH THE OWNER/ENGINEER. REFER TO SPECIFICATION SECTION 02050A.
6. THE CONTRACTOR SHALL KEEP A RECORD OF DEMOLITION AS PART OF THE PROJECT RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION SECTION 01720.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND GROUNDWATER DEWATERING OPERATIONS.

SITE CLEARING, GRUBBING AND GRADING

- 1. STRIPPING OF TOPSOIL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02115.
2. CONTRACTOR SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02110. CLEARING LIMITS SHALL BE AS INDICATED ON THE DRAWINGS, BUT AT ALL TIMES WITHIN EXISTING ROAD RIGHTS-OF-WAY AND PROPERTY LINES ON STATE OR COUNTY-OWNED PROPERTY OR EASEMENTS. ALL CLEARING AND GRUBBING MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A SITE PROVIDED BY THE CONTRACTOR IN COMPLIANCE WITH ALL STATE AND LOCAL LAWS.

- 3. CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL AND DRAINAGE MEASURES IN ALL AREAS OF WORK, AND CONFINE SOIL SEDIMENT TO WITHIN THE LIMITS OF EXCAVATION AND GRADING. PRIOR TO BEGINNING EXCAVATION WORK, EROSION CONTROL FENCE SHALL BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE ACTUAL LIMITS OF GRUBBING AND/OR GRADING, AND AS SHOWN ON THE DRAWINGS. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM, CONTRACTOR SHALL TAKE ALL OTHER NECESSARY MEASURES. EROSION CONTROL FENCE SHALL ALSO BE INSTALLED AT THE DOWN GRADIENT PERIMETER OF THE TOPSOIL STOCKPILES. ALL DISTURBED EARTH SURFACES SHALL BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL SHALL BE STABILIZED IN A MANNER THAT WILL MINIMIZE EROSION. ALL INSTALLED EROSION CONTROL FACILITIES SHALL BE REMOVED AT THE END OF THE PROJECT. REFER TO SPECIFICATION SECTION 02270.
4. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, AND THAT WHICH COLLECTS IN THE STORM DRAIN SYSTEM. REFER TO THE CIVIL DETAIL DRAWINGS.
5. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
6. ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
7. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION. SUITABLE EXCAVATED MATERIAL MAY BE INCORPORATED IN THE PROJECT, WITH EXCESS MATERIAL DISPOSED OF AT A LOCATION PROVIDED BY THE CONTRACTOR. THESE PROVISIONS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF OBLIGATIONS TO PROPERLY DISPOSE OF AND REPLACE ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
9. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE ENGINEER.
10. ALL ROAD AND DRIVE CROSS SLOPES SHALL PITCH 1/4-INCH PER FOOT MINIMUM. ALL PAVED SURFACES SHALL PITCH 1% UNLESS OTHERWISE NOTED. REFER TO THE CIVIL DETAIL DRAWINGS.
11. ALL NON-ROADWAY AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE SODDED TO MATCH THE ADJACENT SOD, OR IF THE ADJACENT SOD IS NOT SUITABLE, THEN NATIVE BAHIA SHALL BE USED.

CIVIL SITE LAYOUT

- 1. THE LOCATIONS AND LIMITS OF ALL WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT ACTIVITIES TO THESE AREAS.
2. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
3. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE HORIZONTAL DATA SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 WITH A 1990 ADJUSTMENT (NAD83/90) STATE PLANE COORDINATES, FLORIDA EAST ZONE, AND IS RELATIVE TO FDPD CORNER RECORD NUMBER 75626. PROJECT BENCH MARK IS SHOWN ON THE DRAWINGS AND IS DERIVED FROM LAKE COUNTY BENCHMARK UK42, BEING BEING A 4"x4" CONCRETE MONUMENT WITH A 4" ALUMINUM DISK SET 14 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT OF COUNTRY ROAD 44A AND HAVING AN ELEVATION OF 104.36 FEET. CONTRACTOR SHALL VERIFY BENCHMARK ELEVATIONS PRIOR TO USING IN CONSTRUCTION.
4. CONTRACT DRAWINGS DEVELOPED FROM SURVEY DRAWING PREPARED BY MCMILLEN SURVEYING, INC. DATED FEBRUARY 06, 2023, AND EXISTING RECORD DRAWING INFORMATION.

CIVIL SITE PIPING

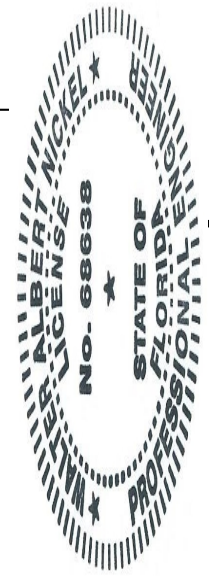
- 1. REFER TO SPECIFICATION SECTION 02200 FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
2. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200. ANY SETTLEMENT OCCURRING WITHIN ONE-YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. OPEN TRENCHES IN THE ROADWAY MUST BE BACKFILLED AT THE END OF THE WORKDAY. OPEN TRENCHES OUTSIDE OF THE WAY MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATELY SAFE BARRICADING AND LIGHTS.
4. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
5. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE CIVIL EXISTING CONDITIONS AND DEMOLITION PLAN. ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. WHENEVER SEWER AND WATER MAINS MUST CROSS, WATER LINES SHOULD BE INSTALLED ABOVE WASTEWATER LINES. A MINIMUM SEPARATION OF 18-INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE WASTEWATER LINE SHALL BE MAINTAINED. WHERE A WATER LINE CROSSES UNDER A WASTEWATER LINE, A FULL LENGTH OF PIPE SHALL BE CENTERED ABOVE THE WATER LINE SO THAT BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE.
7. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING PIPING AND UTILITIES IN THE FIELD BY TEST PIT EXCAVATION PRIOR TO COMMENCING INSTALLATION OF ANY OF THE NEW PIPING AFFECTED. WHERE NEW PIPE CONNECTS TO EXISTING PIPING OR STRUCTURAL PENETRATION, CONTRACTOR SHALL VERIFY ELEVATION BY TEST PIT, AS REQUIRED, PRIOR TO INSTALLATION OF ANY OF THE ASSOCIATED/AFFECTED NEW PIPING. IDENTIFIED CONFLICTS WITH EXISTING PIPING AND UTILITIES WILL BE REVIEWED WITH THE ENGINEER PRIOR TO COMMENCING INSTALLATION. THE HORIZONTAL ALIGNMENT OF NEW PIPING MAY BE ADJUSTED IN THE FIELD SUBJECT TO PRIOR REVIEW AND ACCEPTANCE OF THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS AND REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION MATERIALS IN ACCORDANCE WITH SPECIFICATION SECTION 02050.

WATER MAIN GENERAL NOTES

- 1. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
2. ANY UNDERGROUND STRUCTURES, CABLES, AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATIONS SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES, CABLES, AND PIPELINES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNERS OF THE STRUCTURES, CABLES, AND PIPELINES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE NEW WATERMAIN. LAYOUT SHALL BE REVIEWED AND ACCEPTED BY THE OWNER AND ENGINEER. THE NEW WATER MAIN MUST BE LOCATED WITHIN THE RIGHTS-OF-WAY SHOWN ON THE DRAWINGS.
4. MINIMUM DEPTH OF COVER SHALL BE 3'-0" UNLESS SHOWN OTHERWISE ON THE DRAWINGS. THE NEW MAIN SHALL GENERALLY FOLLOW THE GROUND CONTOUR, HOWEVER, ABRUPT CHANGES IN GRADE SHALL BE AVOIDED.
5. NEW HYDRANTS SHALL BE ACCORDING TO THE OWNER'S SPECIFICATIONS AND SHALL BE APPROVED BY THE OWNER AND FIRE DEPARTMENT.
6. ALL BENDS, TEES, REDUCERS, HYDRANTS AND PLUGS SHALL BE RESTRAINED BY USING MECHANICAL RESTRAINTS OR OTHER METHODS AS SHOWN ON THE DRAWINGS. ANCHOR TEES SHALL BE USED FOR ALL HYDRANT BRANCHES
7. REFER TO SPECIFICATION 02675 FOR PRESSURE TESTING AND LEAKAGE TESTING.
8. CONNECTIONS TO EXISTING WATER MAIN SHALL BE COORDINATED WITH THE OWNER.
9. ALL WATER MAINS THAT ARE DISCONNECTED FROM THE WATER SYSTEM ARE TO BE LEFT IN PLACE, FILLED WITH GROUT AND SHALL BE CAPPED WITH A M.J. CAP OR PLUG.
10. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED. AT NO ADDITIONAL COST TO THE OWNER THE CONTRACTOR SHALL REPAIR OR COORDINATE WITH THE RESPECTIVE UTILITY ON DAMAGE TO EXISTING UTILITIES.
11. CONTINUOUS WATER SERVICE MUST BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY PIPING AND SERVICES SUITABLE FOR AN OPERATING PRESSURE OF 100psi. ACCESS TO ROAD AND DRIVEWAYS SHALL ALSO BE MAINTAINED.
12. EXISTING VALVES AND FITTINGS SALVAGED FOR REUSE SHALL BE STORED AT AN OWNER APPROVED LOCATION AND REMAIN PROPERTY OF THE OWNER.
13. ALL VALVES SHALL OPEN LEFT.
14. LINE STOP VALVES SHALL BE TEMPORARY VALVES NEEDED TO STOP FLOW IN WATER MAINS WHICH OTHERWISE CANNOT BE CONTROLLED BY EXISTING VALVES. ACCEPTABLE VALVES AND/OR MANUFACTURERS INCLUDE "HYDRA-STOP" AND "KOPPLSTOP".

LEGEND table with columns for EXISTING and PROPOSED symbols. Includes symbols for PROPERTY/ROW LINE, CENTERLINE, EDGE OF PAVEMENT, EDGE OF GRAVEL, EDGE OF CONCRETE, TREELINE, CHAIN LINK FENCE, FENCE, WATER, CULVERT, OVERHEAD ELECTRIC, IRON PIPE/REBAR MONUMENT, FIBER OPTIC PEDESTAL, TELEPHONE PEDESTAL, SHUTOFF VALVE, WATER SERVICE SHUTOFF, WATER METER, REPLACED WATER METER (INACTIVE), HYDRANT, IRRIGATION VALVE, UTILITY POLE, UTILITY POLE W/ GUY, CONIFEROUS TREE, DECIDUOUS TREE, PALM TREE, SIGN, MAILBOX, TEST PIT, LIMIT OF WORK, SILT FENCE, MATCHLINE. Includes SUGGESTED SEQUENCE OF CONSTRUCTION and CIVIL ABBREVIATIONS table.

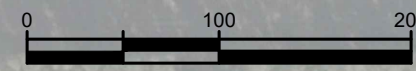
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND STRUCTURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RESPECTIVE UTILITIES AND AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RESPECTIVE UTILITIES AND AGENCIES.



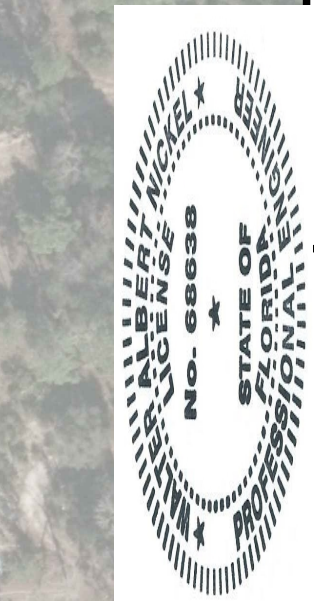
Project information and title block. Includes Project No. 21588, Designer: Chinkley, CAD Coord: Chinkley, Date: 10/15/2025, and Title: LEVY COUNTY, FL UNIVERSITY OAKS WATER MAIN. Includes Wright-Pierce logo and contact information: 800.422.1095, www.wright-pierce.com, 3820 NORTHDALE BOULEVARD, SUITE 109A, TAMPA, FL 33624. Includes a table for REVISIONS and a table for APP'D DATE.



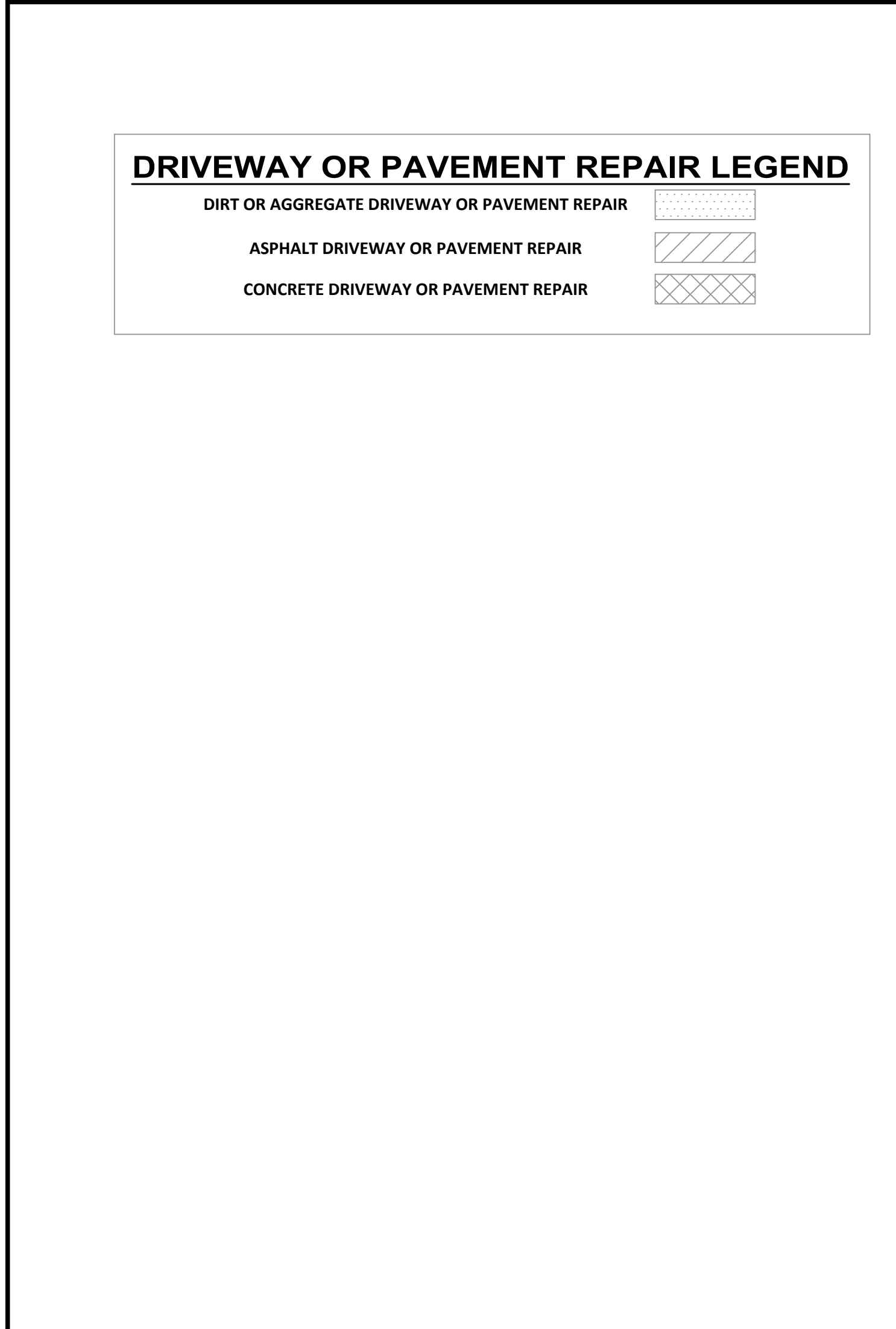
SITE KEY PLAN
SCALE: 1"=100'



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DRAWING		SITE KEY PLAN																
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NO	REVISIONS	APPD DATE

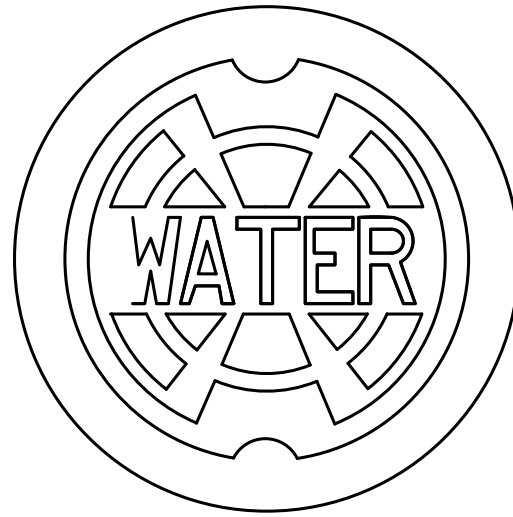
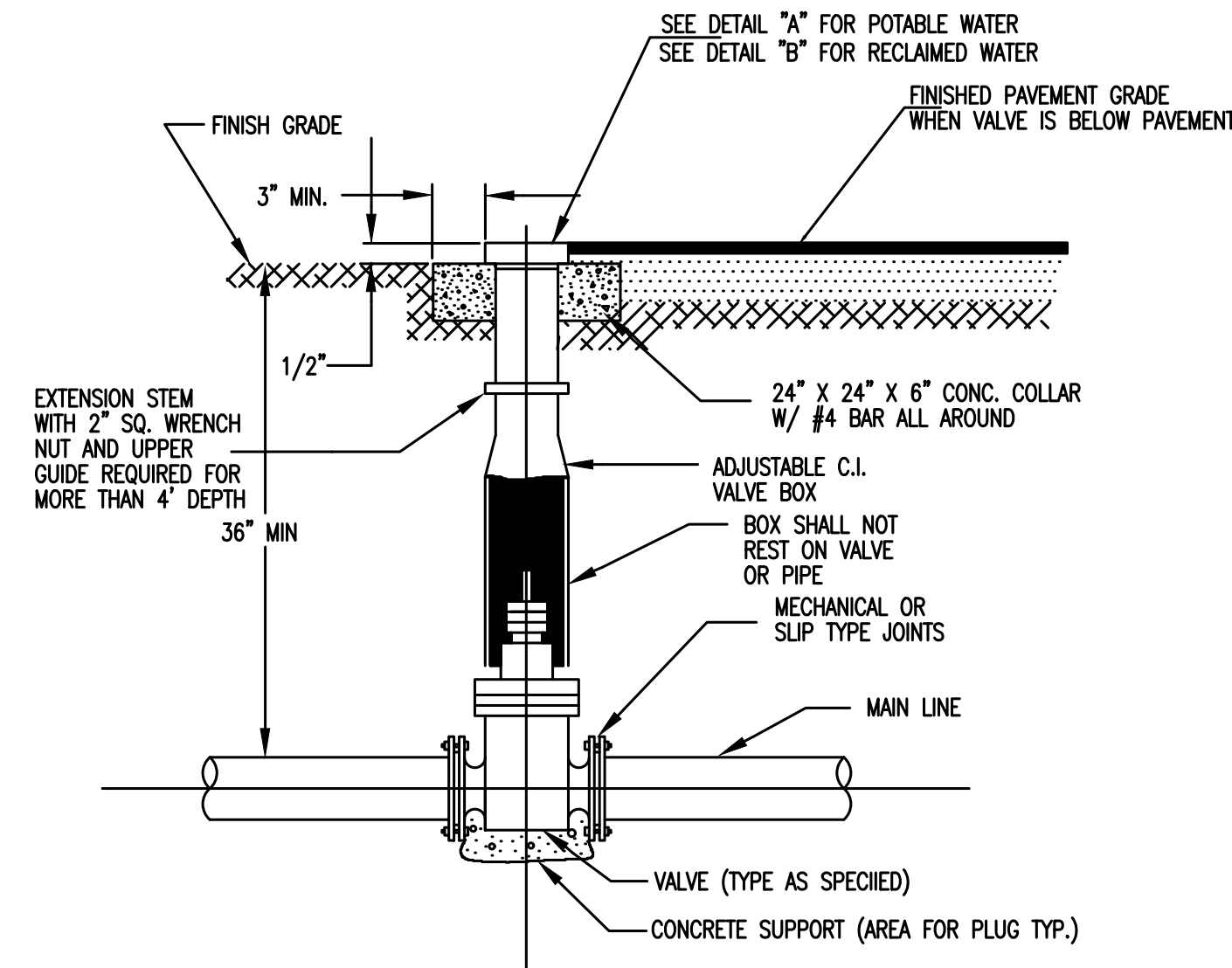
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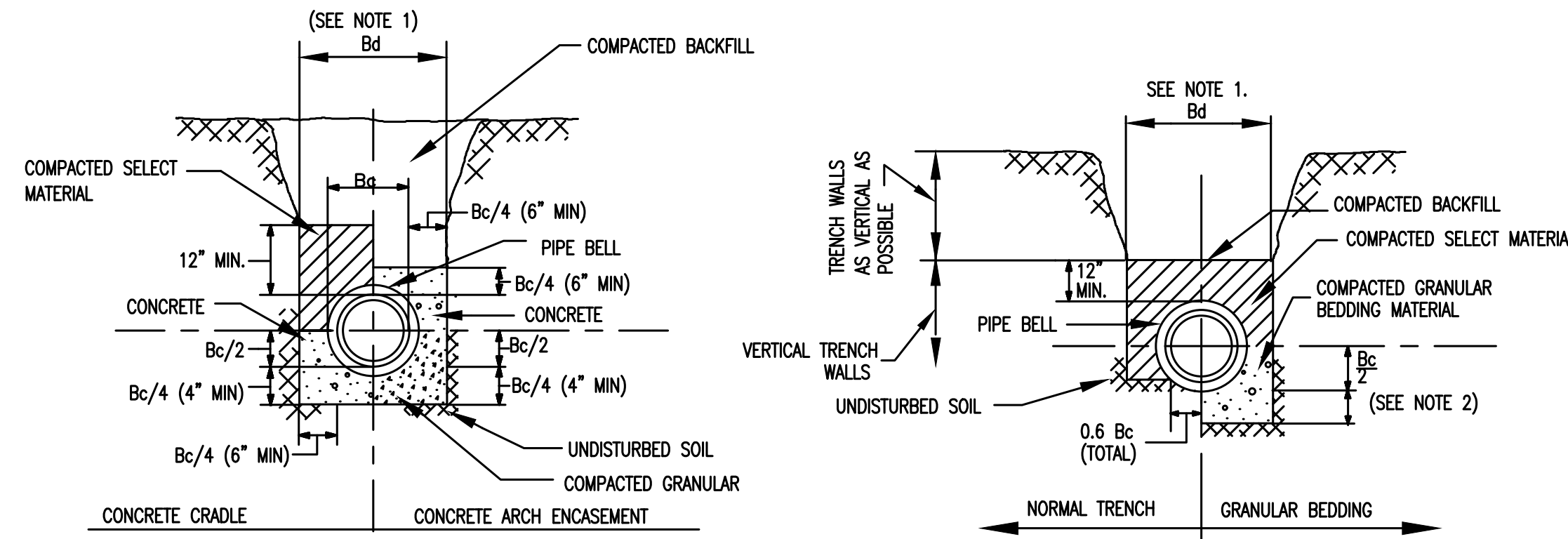
LEVY COUNTY, FL
UNIVERSITY OAKS WATER MAIN
 PLAN: NE 107TH TERRACE

DRAWING
C-4



DETAIL "A"

VALVE & VALVE BOX DETAIL
SCALE: NTS



**CLASS "A" BEDDING
SPECIAL CONDITIONS**

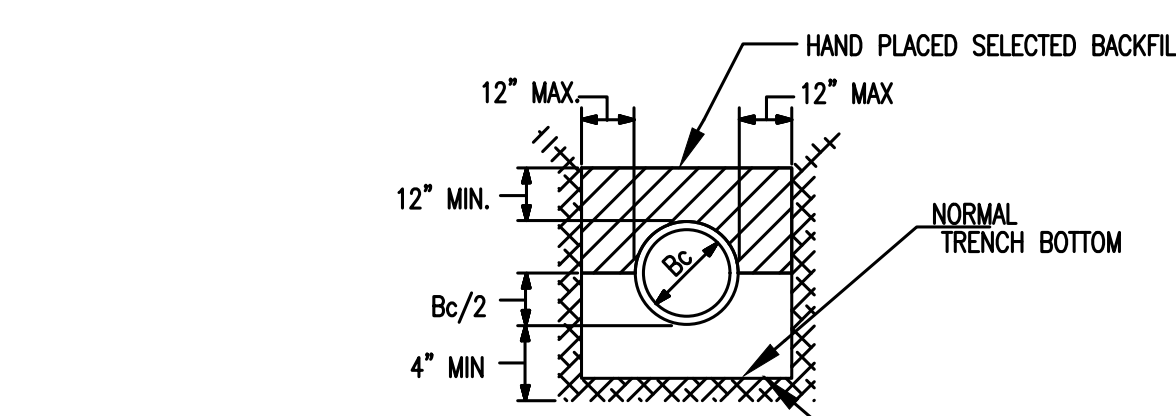
**CLASS "B" BEDDING
NORMAL CONDITIONS**

BEDDING & TRENCHING NOTES:

- Bc = PIPE O.D.
Bd = TRENCH WIDTH AT TOP OF PIPE
MAX. Bd = Bc + 24"
MIN. Bd = MAX. DIM. OF BELL + 8" (UNSHEETED TRENCH)
MAX. DIM. OF BELL + 12" (UNSHEETED TRENCH)
- DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL BE AS REQ'D TO REACH SUITABLE FOUNDATION; FOR NON-CUSHIONING MATERIAL, DEPTH SHALL BE 6" BELOW BOTTOM OF UTILITY.
- SHEETING SHALL BE DRIVEN BELOW THE UTILITY INVERT IF REQUIRED FOR LATERAL SUPPORT OR UNSUITABLE MATERIAL REMOVAL. WHERE DRIVEN BELOW PIPE INVERT, SHEETING SHALL BE CUT OFF A MIN. OF 12" ABOVE TOP OF PIPE, OR HIGHER AS AUTHORIZED BY THE ENGINEER, AND LEFT IN PLACE. IN NO CASE SHALL SHEETING LEFT IN PLACE EXTEND HIGHER THAN 30" BELOW SURFACE GRADE UNLESS SPECIFICALLY APPROVED. BRACING SHALL BE PROVIDED AS REQUIRED.

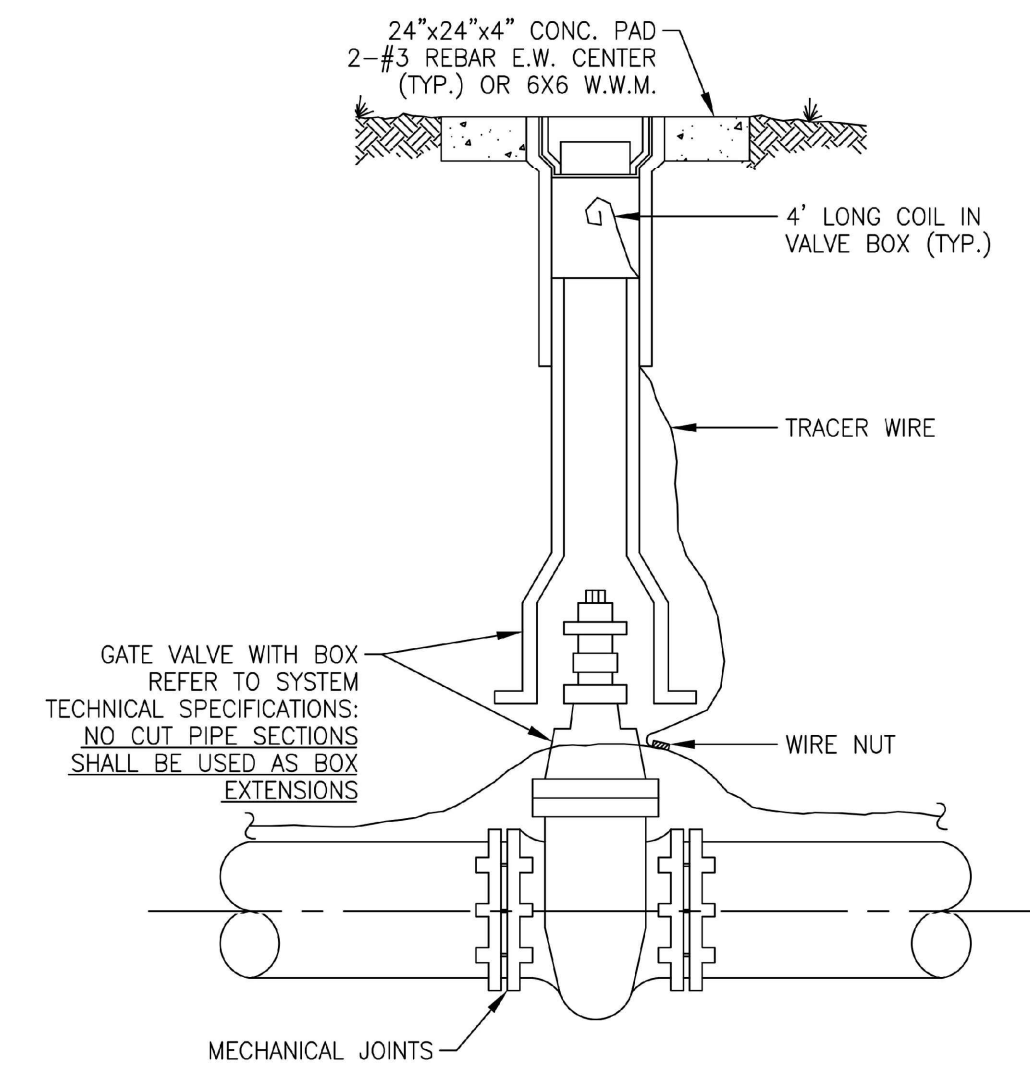
NOTE:
NORMALLY CLEAN BACKFILL SHALL BE USED AS A 4" MIN. BEDDING FOR PIPE HOWEVER, WHERE UNSTABLE TRENCH BOTTOM CONDITIONS ARE ENCOUNTERED, AS DETERMINED BY THE INSPECTING ENGINEER A SUFFICIENT DEPTH OF THE UNSTABLE SOIL SHALL BE REMOVED AND REPLACED WITH 1/4" - 3/4" CRUSHED STONE, GRAVEL (U.S.C.S. SOIL CLASSIFICATION - CLASS 1), OR CRUSHED SHELL TO THE SPRING LINE OF THE PIPE TO STABILIZE THE PIPE BEDDING. WHEN DRY UNSUITABLE MATERIAL (I.E. HARDPAN) IS ENCOUNTERED AT THE TRENCH BOTTOM, GRADED SANDS MAY BE USED FOR PIPE BEDDING.

TRENCH BEDDING
SCALE: NTS



BEDDING & BACKFILL COMPACTION DENSITY TO 95% MODIFIED PROCTOR A.A.S.H.O. T-180 (A.S.T.M.D.-1557) BEDDING AND BACKFILL PLACED IN LIFTS NOT EXCEEDING 6" IN THICKNESS (FOR P.V.C. GRAVITY SEWER PIPE ALL BEDDING IN COMPLIANCE W/ A.S.T.M. D2321-74)

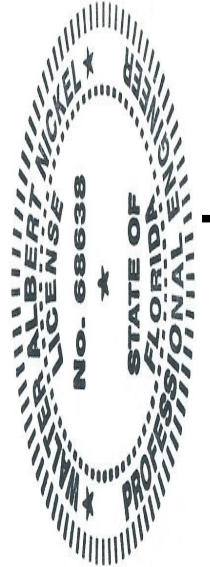
STANDARD BEDDING



NOTE:
INSTALL TRACER WIRE ABOVE ALL PVC MAINS. TRACER WIRE SHALL BE 14UF, WITH ONE TURN AROUND BARREL OF EACH FIRE HYDRANT AT FINISHED GRADE AND WITH FEET EXCESS IN EACH VALVE BOX. CONNECT TO CONTINUOUS WIRE WITH WIRE NUTS AND ELECTRICIAN'S TAPE.

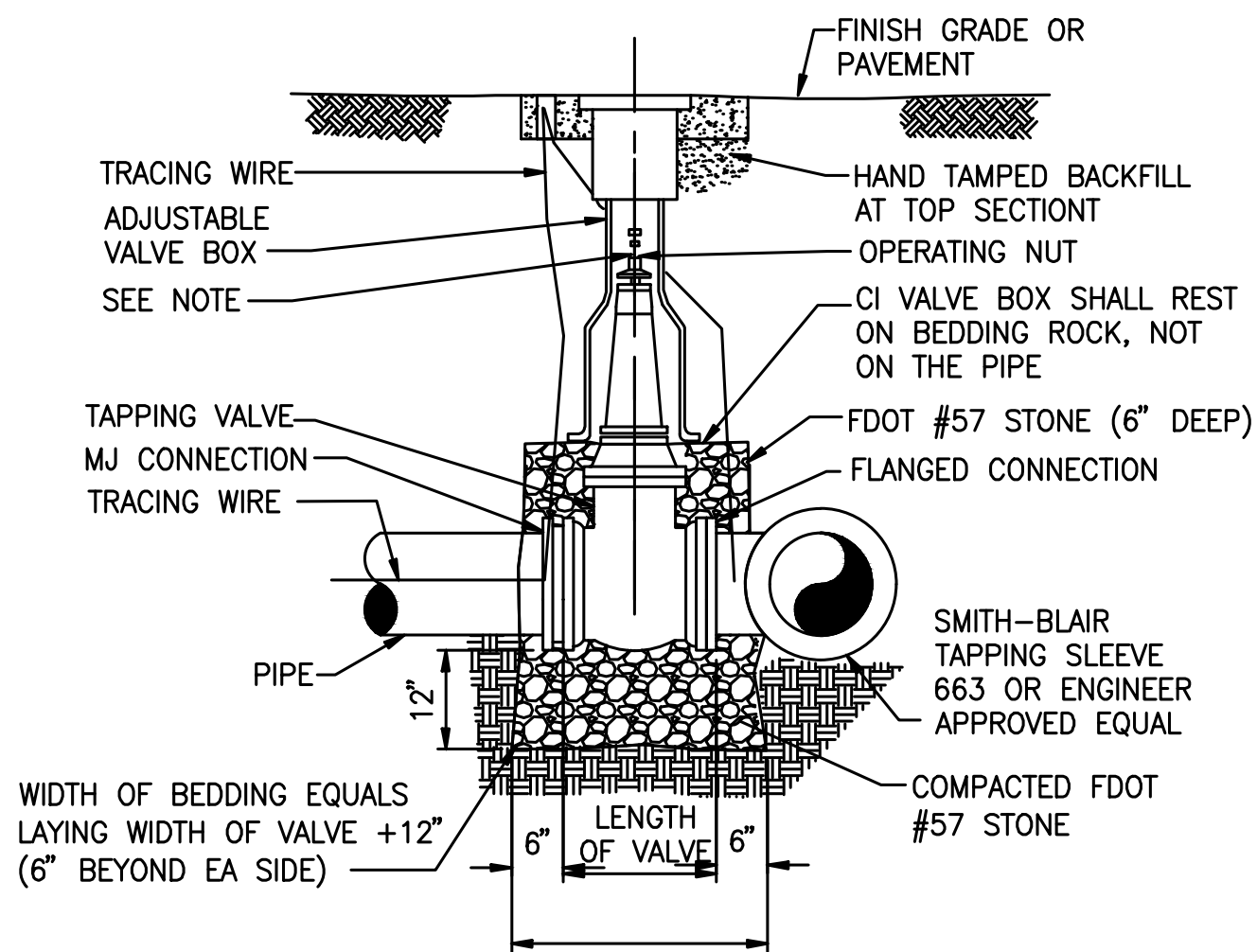
GATE VALVE INSTALLATION
SCALE: NTS

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. THE DATE AND TIME OF THE LAST SAVE OF THIS DRAWING IS SHOWN IN THE TOP RIGHT CORNER.



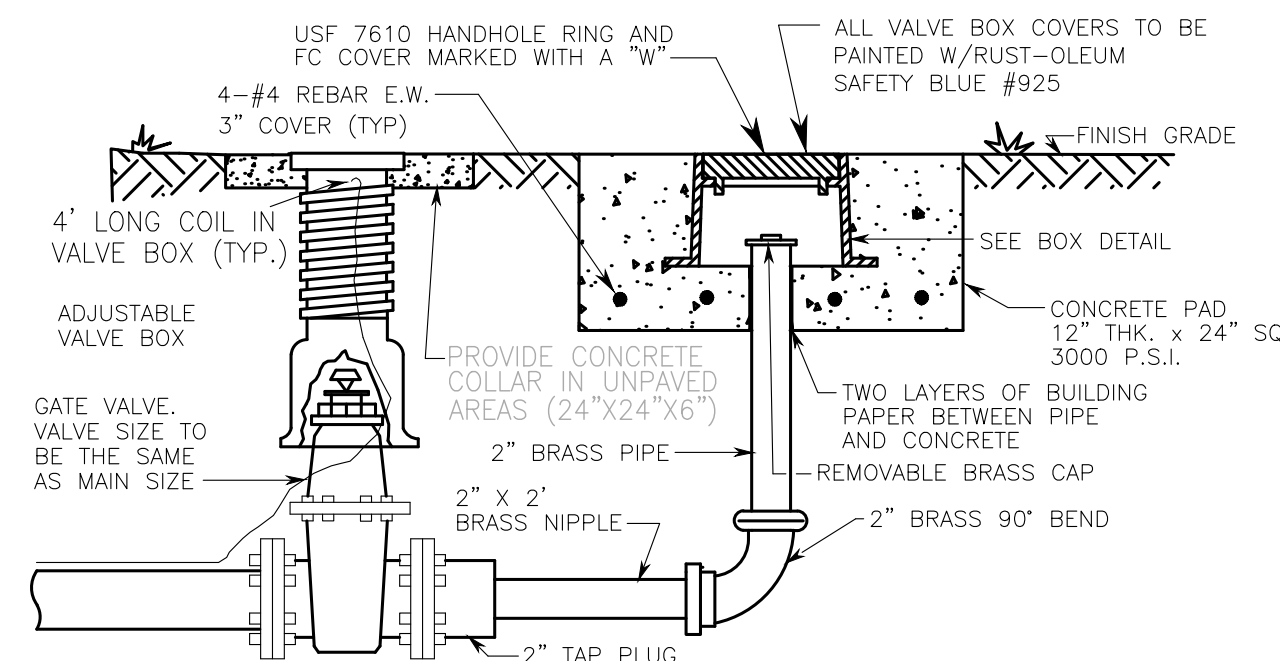
NO	REVISIONS	APPD	DATE

PROJECT NO: 21588
DESIGNED: CAD COORD: CHINKLEY
CAD: CHECKED: DATE: APPROVED: DATE: SUBMISSION: DATE:



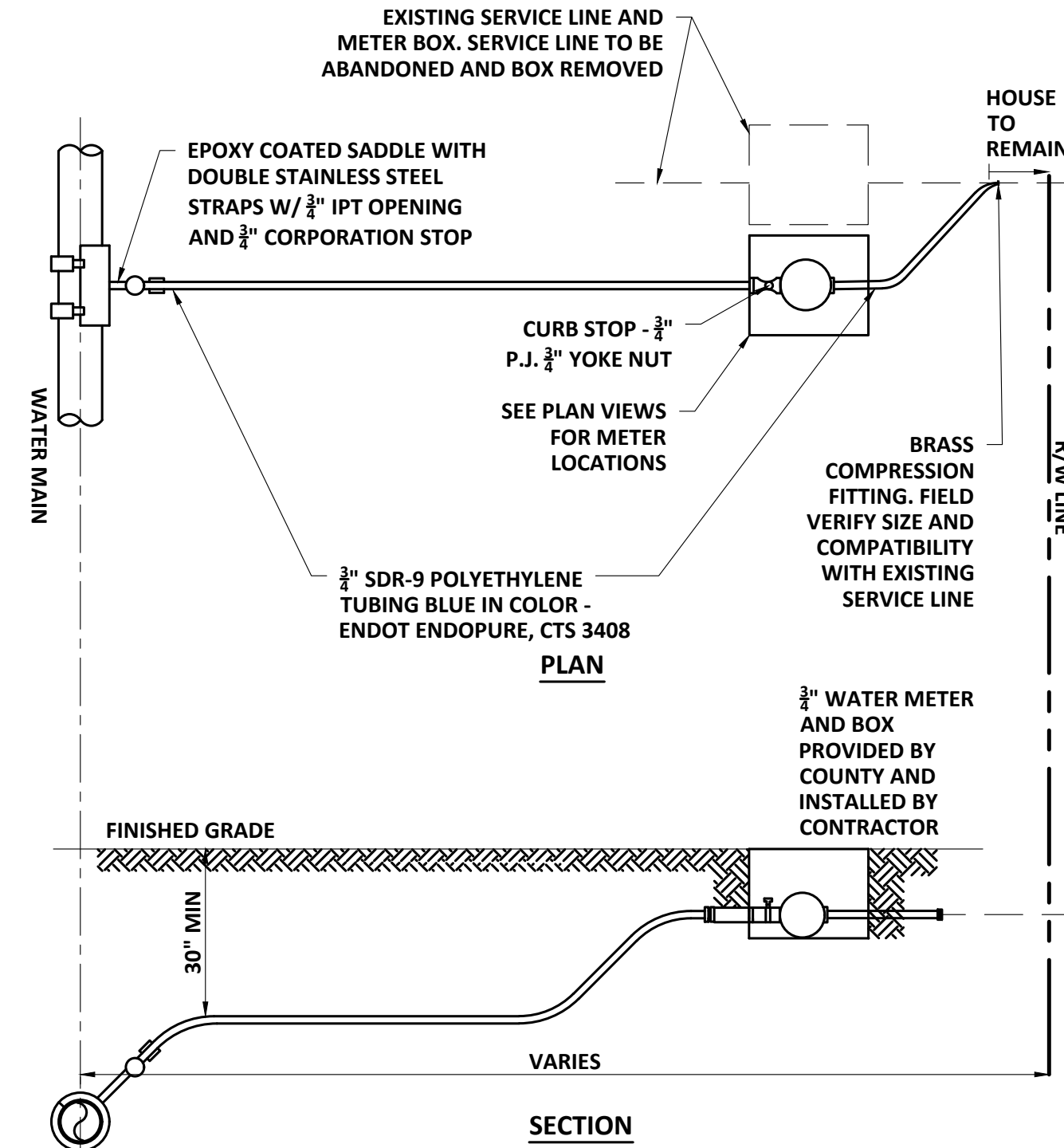
NOTE:
VALVE STEM EXTENSION(S) REQ'D TO MAINTAIN 2' DEPTH TO OPERATING NUT ON DEPRESSED MAIN W/36" OR MORE COVER.

WET TAPPING SLEEVE AND VALVE DETAIL
SCALE: NTS



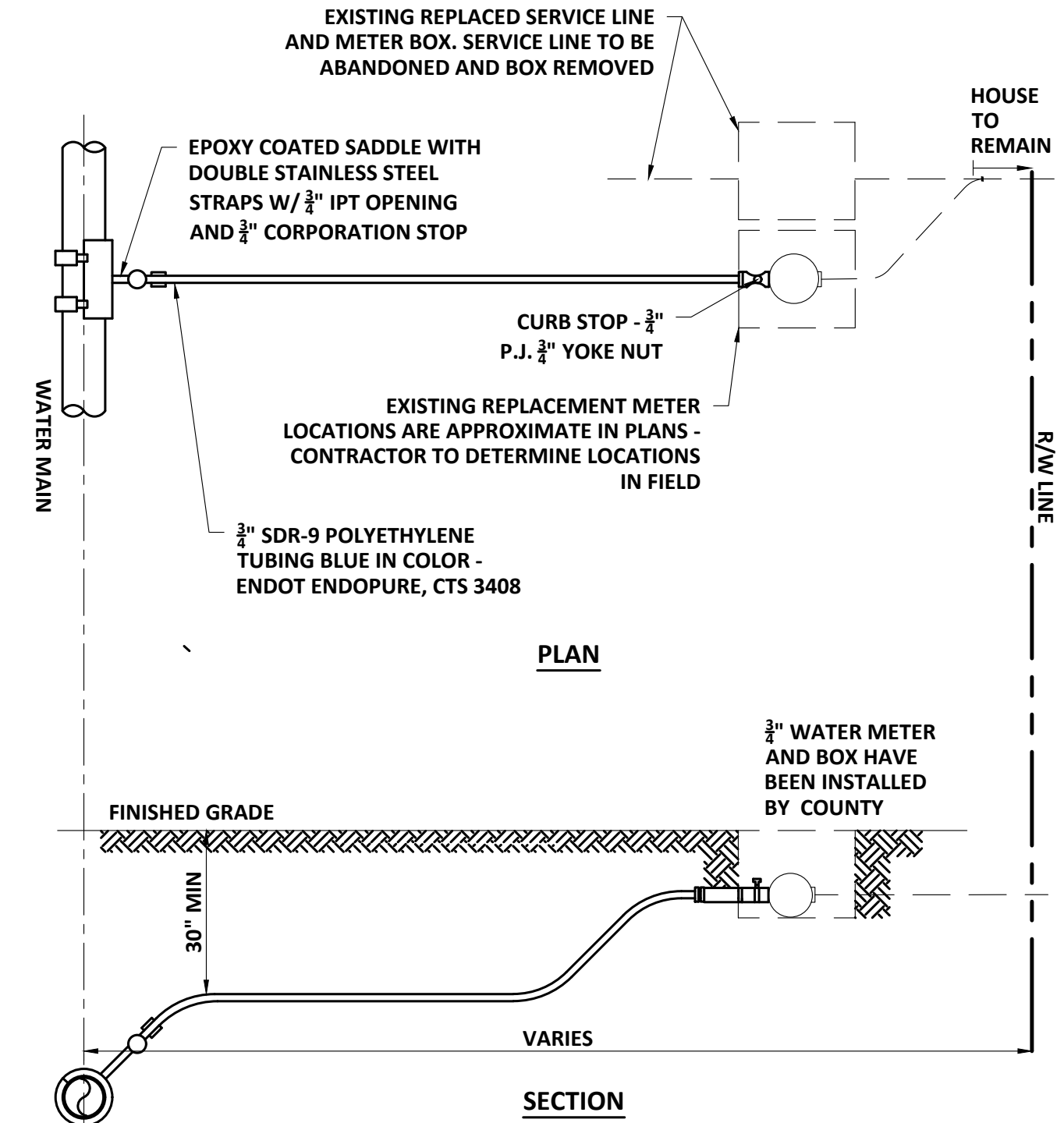
TYPICAL TRAFFIC BEARING BOX DETAIL FOR BLOWOFF OUTSIDE OF PAVEMENT

TEMPORARY AND PERMANENT BLOW OFF DETAIL
SCALE: NTS



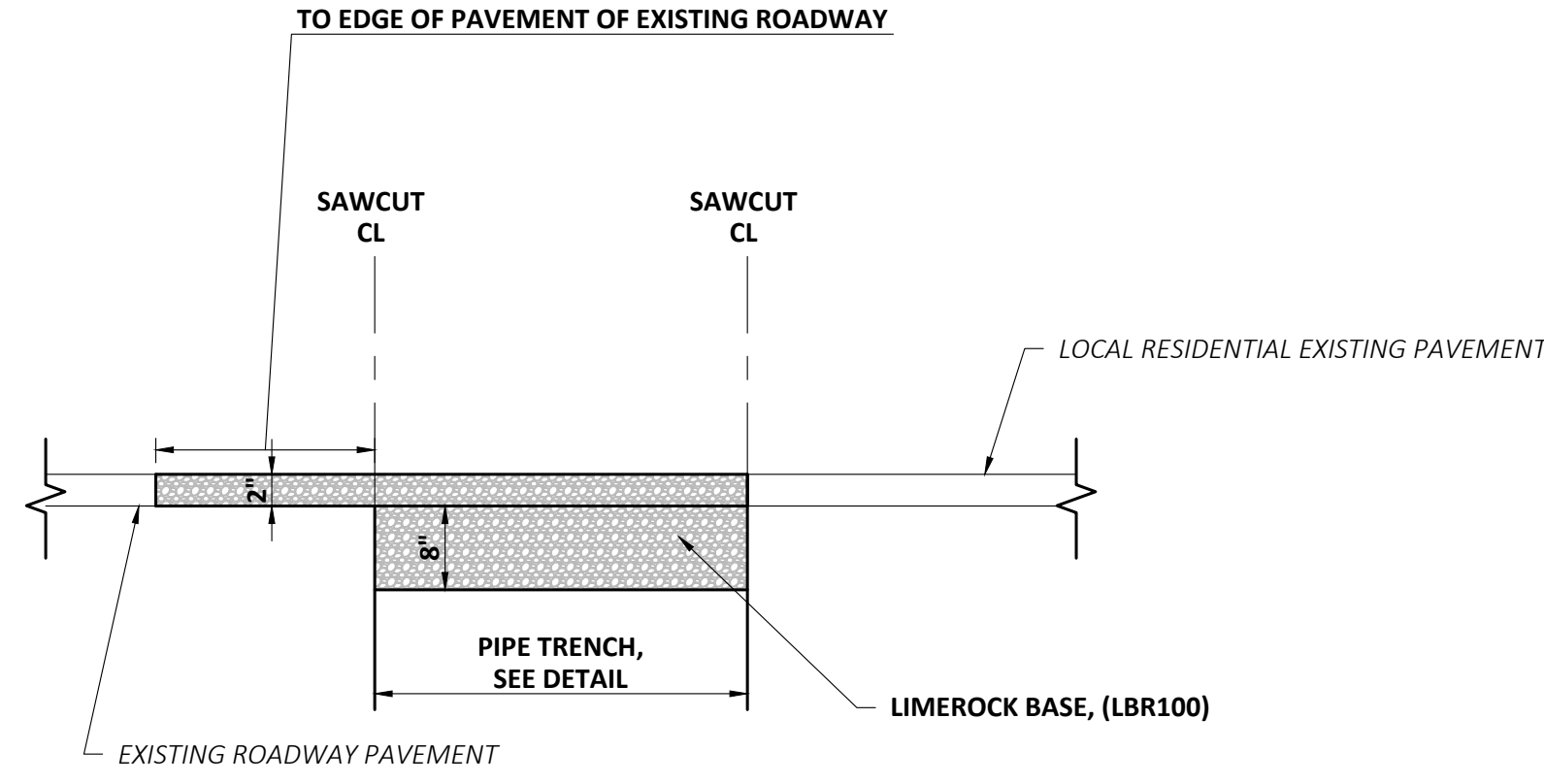
NOTES:
1. ALL VALVES SHALL BE FULL PORT.
2. POLYTUBING SHALL BE CONTINUOUS WITH NO COUPLINGS.

NEW SERVICE DETAIL
SCALE: NTS

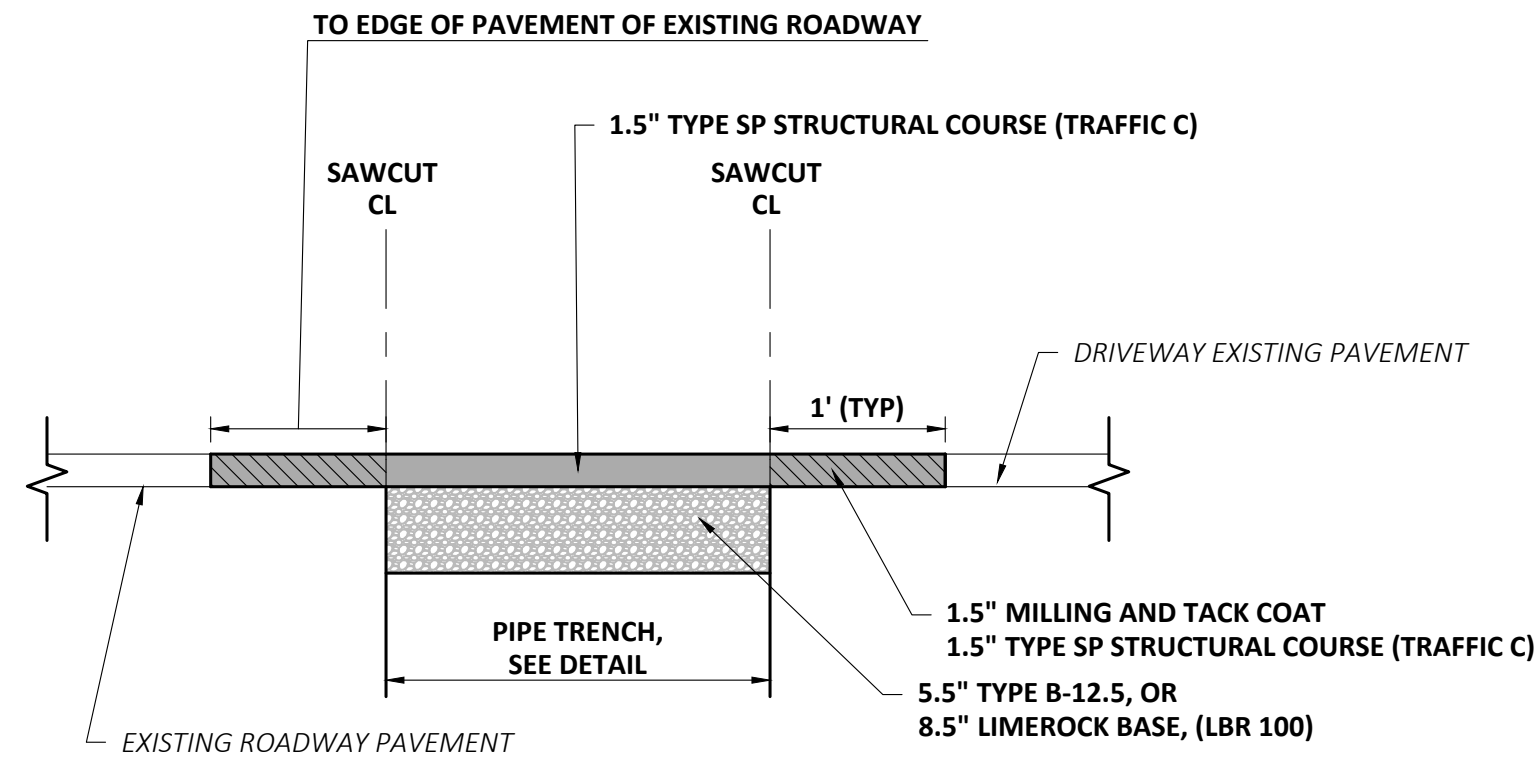


NOTES:
1. ALL VALVES SHALL BE FULL PORT.
2. POLYTUBING SHALL BE CONTINUOUS WITH NO COUPLINGS.

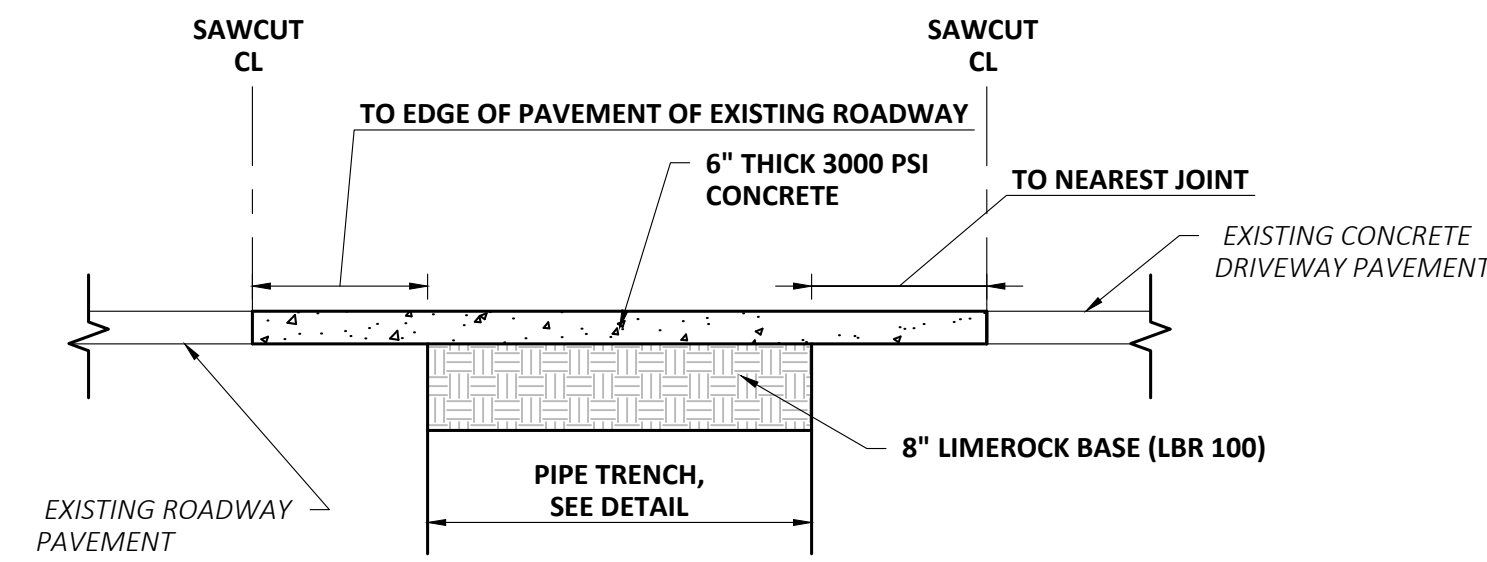
EXISTING REPLACEMENT SERVICE DETAIL
SCALE: NTS



DIRT OR AGGREGATE DRIVEWAY OR PAVEMENT REPAIR
SCALE: "NTS"



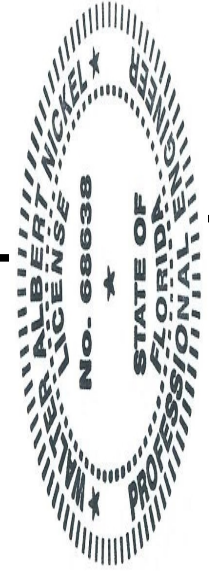
ASPHALT DRIVEWAY OR PAVEMENT REPAIR
SCALE: "NTS"



- NOTES:**
1. CONCRETE TO HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
 2. USE 1/2" EXPANSION JOINT (PERFORMED JOINT FILLER) BETWEEN CONCRETE AND ALL OTHER FIXED OBJECTS.

CONCRETE DRIVEWAY OR PAVEMENT REPAIR
SCALE: "NTS"

MAINTAIN EXISTING PAVEMENT SURFACE TO ORIGINAL FINISH ELEVATION UNLESS OTHERWISE SPECIFIED. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, FURNISHED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.



NO	REVISIONS	APPD	DATE
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PROJECT NO: 21588
 DESIGNED: CHINKLEY
 CAD COORD: CHINKLEY
 CAD:
 CHECKED:
 DATE:
 APPROVED:
 DATE:
 SUBMISSION:

WRIGHT-PIERCE
 800.422.1095 | www.wright-pierce.com
 3820 NORTHDALE BOULEVARD, SUITE 109A, TAMPA, FL 33624

LEVY COUNTY, FL
UNIVERSITY OAKS WATER MAIN

DETAILS III

DRAWING
C-7

GENERAL:

1. WRIGHT-PIERCE GUIDELINES FOR EROSION AND SEDIMENT CONTROL (AKA THE BLUE SHEET) SHALL SERVE AS A GUIDE FOR THE IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES.

SITE DESCRIPTION:

1. SITE IS WITHIN LEVY COUNTY AROUND ARCHER FLORIDA, GENERALLY WITHIN THE AREA OF UNIVERSITY BLVD, NE 106 COURT, NE 107 TERR, NE 109 ST, AND NE 112 ST.

DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY:

1. INSTALLATION OF 6" PVC WATER MAIN ALONG UNIVERSITY BLVD, NE 106 COURT, NE 107 TERR, NE 112 ST AND ADD VALVES TO THE EXISTING WATER MAIN ON NE 109 ST.

DESCRIBE THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

EXISTING DATA DESCRIBING THE SOIL:

ESTIMATE THE DRAINAGE AREA SIZE FOR EACH DISCHARGE POINT:

LATITUDE AND LONGITUDE OF EACH DISCHARGE POINT AND IDENTIFY THE RECEIVING WATER OR MS4 FOR EACH DISCHARGE POINT:

CONTROLS, BMPs AND MEASURES:

BEFORE ANY SOIL DISTURBING ACTIVITIES ARE COMMENCED, THE FOLLOWING SHALL OCCUR:

BMPs SHALL REMAIN IN PLACE UNTIL FINISHED CONSTRUCTION IS APPROVED BY THE OWNER AND ALL DISTURBED AREAS WITHIN PROJECT LIMITS ARE STABILIZED BY EITHER HARDSCAPE OR VEGETATIVE MATERIAL.

NOTE: ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

REQUIRED DEWATERING BMP:

1. WELL POINTS, HORIZONTAL SOCK DRAINS OR ANY OTHER METHOD THAT WILL PREVENT DISCHARGE OF TURBID WATER ABOVE 29 NTU FROM CONSTRUCTION SITE.
2. CONTRACTOR CANNOT PUMP TURBID WATER INTO STORM SEWER, PONDS, DITCHES OR LAKES.
3. NO HAY BALES SHALL BE USED FOR INLET PROTECTION OR IN ROADS.
4. ONLY SYNTHETIC HAY BALES OR OTHER TYPES OF INLET PROTECTION SHALL BE USED.
5. INLET PROTECTION SHALL NOT BE PLACED IN SUCH A WAY THAT IT CAUSES FLOODING.

TEMPORARY AND PERMANENT STABILIZATION PRACTICES:

1. DESCRIBE ALL TEMPORARY AND PERMANENT STABILIZATION PRACTICES.
 - 1.1. STABILIZATION PRACTICES INCLUDE SOD STABILIZATION AND HARDSCAPE.
 - 1.2. ALL SOD SHALL BE PLACED WITHIN SEVEN WORKING DAYS OF FINAL GRADING IN AREAS THAT ARE TO BE SODDED.

DESCRIBE IN DETAIL CONTROLS FOR THE FOLLOWING POTENTIAL POLLUTANTS:

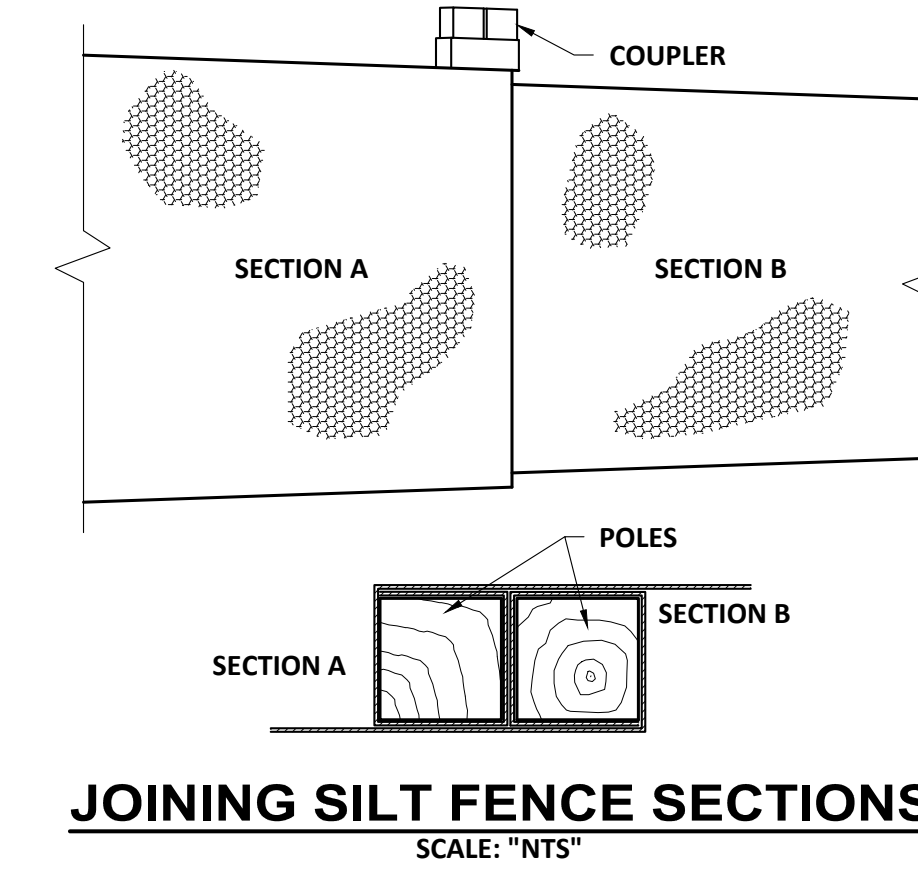
1. WASTE DISPOSAL:
 - 1.1. THIS MAY INCLUDE CONCRETE, WOOD, FERTILIZERS, MASONRY BLOCKS, PETROLEUM BASED PRODUCTS, ROOFING MATERIALS, CLEANING SOLVENTS, DETERGENTS, METAL STUDS, PLASTICS, AND PAINTS.
2. OFFSITE VEHICLE TRACKING FROM CONSTRUCTION ENTRANCES/EXITS:
 - 2.1. INSTALLED AS NEEDED TO ACCESS THE SITE.
3. DESCRIBE ALL STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM EXPOSED SOILS AND STRUCTURAL PRACTICES TO STORE FLOWS, RETAIN SEDIMENT ON-SITE OR IN ANY OTHER WAY LIMIT STORMWATER RUNOFF.
 - 3.1. THESE CONTROLS INCLUDE SILT FENCES AND STORM DRAIN INLET PROTECTION.
4. THE PROPER APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES USED AT THE CONSTRUCTION SITE SHALL CONFORM TO FDOT STANDARD SPECIFICATION 982.
5. THE STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES, INCLUDING FUEL STORED AT SITE FOR PUMPS AND OTHER EQUIPMENT SHALL BE STORED AND HANDLED IN SUCH A MANNER TO PREVENT CONTAMINANTS, POLLUTANTS, OR HAZARDOUS SUBSTANCES, AS DEFINED IN SECTION 376.301, FLORIDA STATUTES, FROM MIGRATING FROM THE CONSTRUCTION SITE OR FROM MATERIALS AND EQUIPMENT INTO ANY SURFACE WATERS, WETLANDS, GROUNDWATER, OR PROPERTY BEYOND THE PROJECT LIMITS.

MAINTENANCE PLAN FOR ALL STRUCTURAL AND NON-STRUCTURAL CONTROLS TO ASSURE THAT THEY ARE IN GOOD AND EFFECTIVE OPERATING CONDITION AFTER CONSTRUCTION IS COMPLETED:

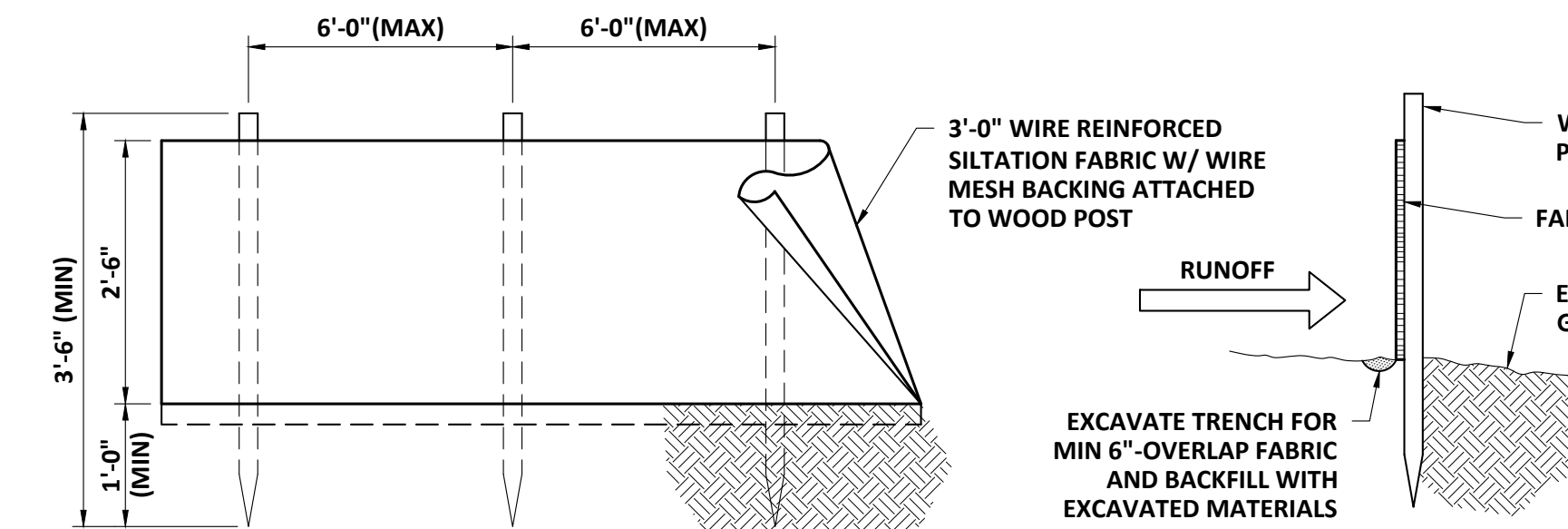
1. CONTRACTOR MUST CLEAN ANY OFF-SITE STRUCTURES AND PIPES OF SEDIMENTS OR DEBRIS, IF THOSE WERE THE RESULT OF THE CONSTRUCTION ACTIVITY.
2. INSPECTIONS MUST OCCUR DAILY AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL. ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY. CITY OF EUSTIS INSPECTOR WILL DOCUMENT INSPECTIONS.
3. IDENTIFY AND DESCRIBE ALL SOURCES OF NON-STORMWATER DISCHARGES AS ALLOWED IN PART IV.A.3 OF THE PERMIT. FLOWS FROM FIRE FIGHTING ACTIVITIES DO NOT HAVE TO BE LISTED OR DESCRIBED.

ADDITIONAL NOTES:

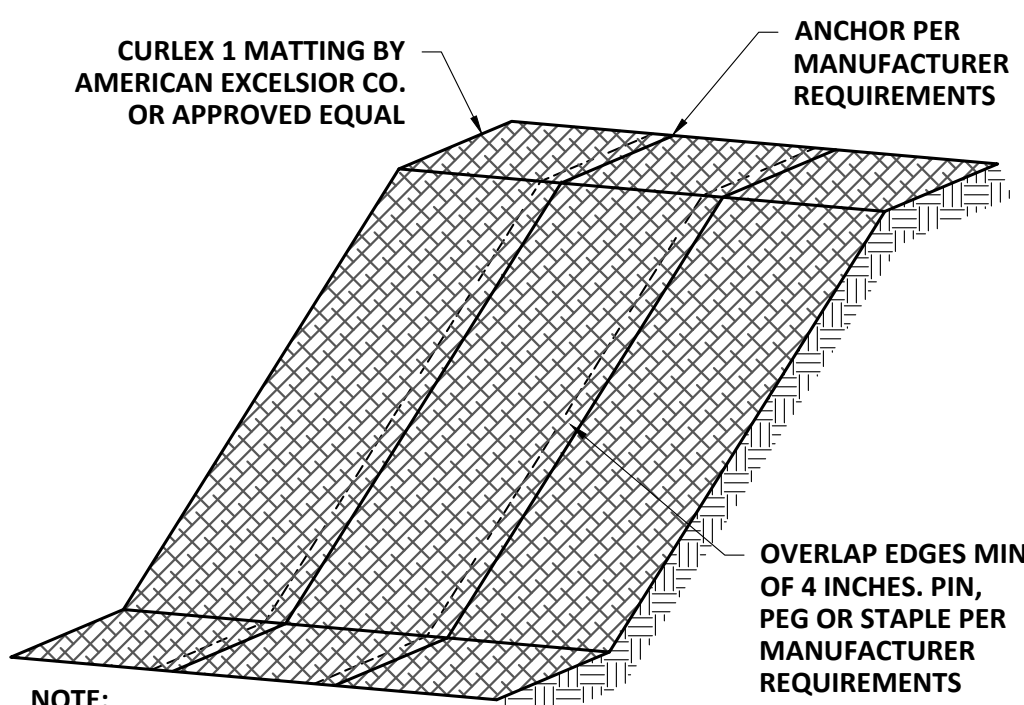
1. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN A MANNER SO AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
2. ALL EXCESS FILL MATERIALS SHALL BE HAULED OFF SITE.



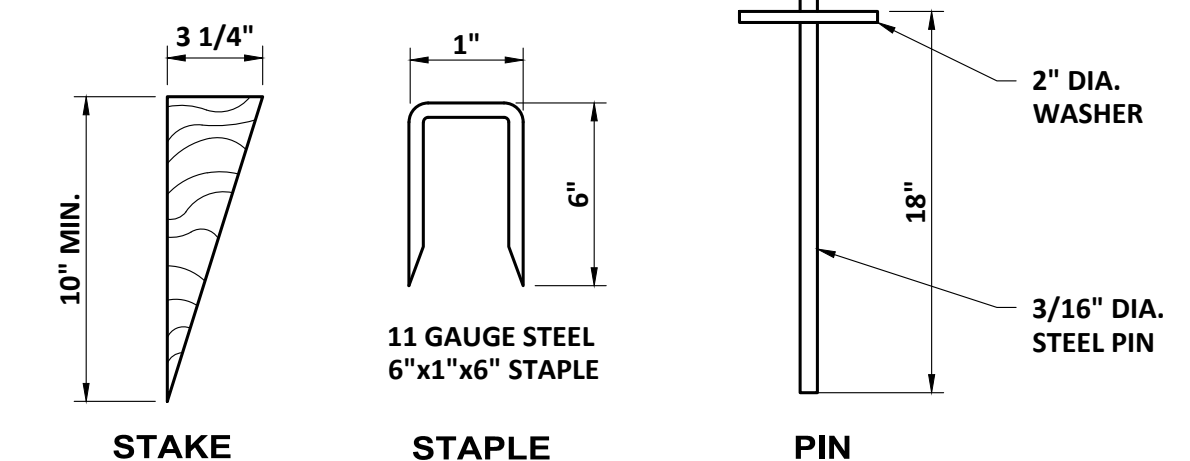
JOINING SILT FENCE SECTIONS
SCALE: "NTS"



SILT FENCE INSTALLATION DETAIL
SCALE: NTS

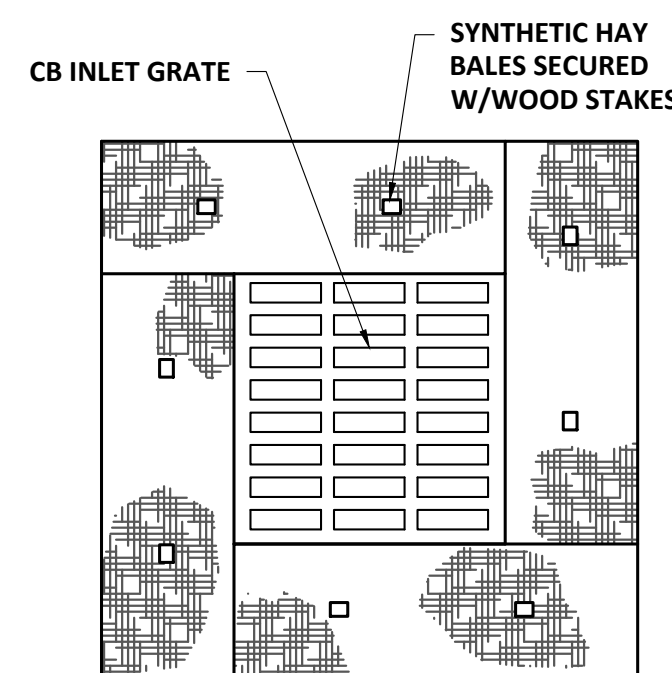


EROSION CONTROL MATTING - SLOPES
SCALE: "NTS"

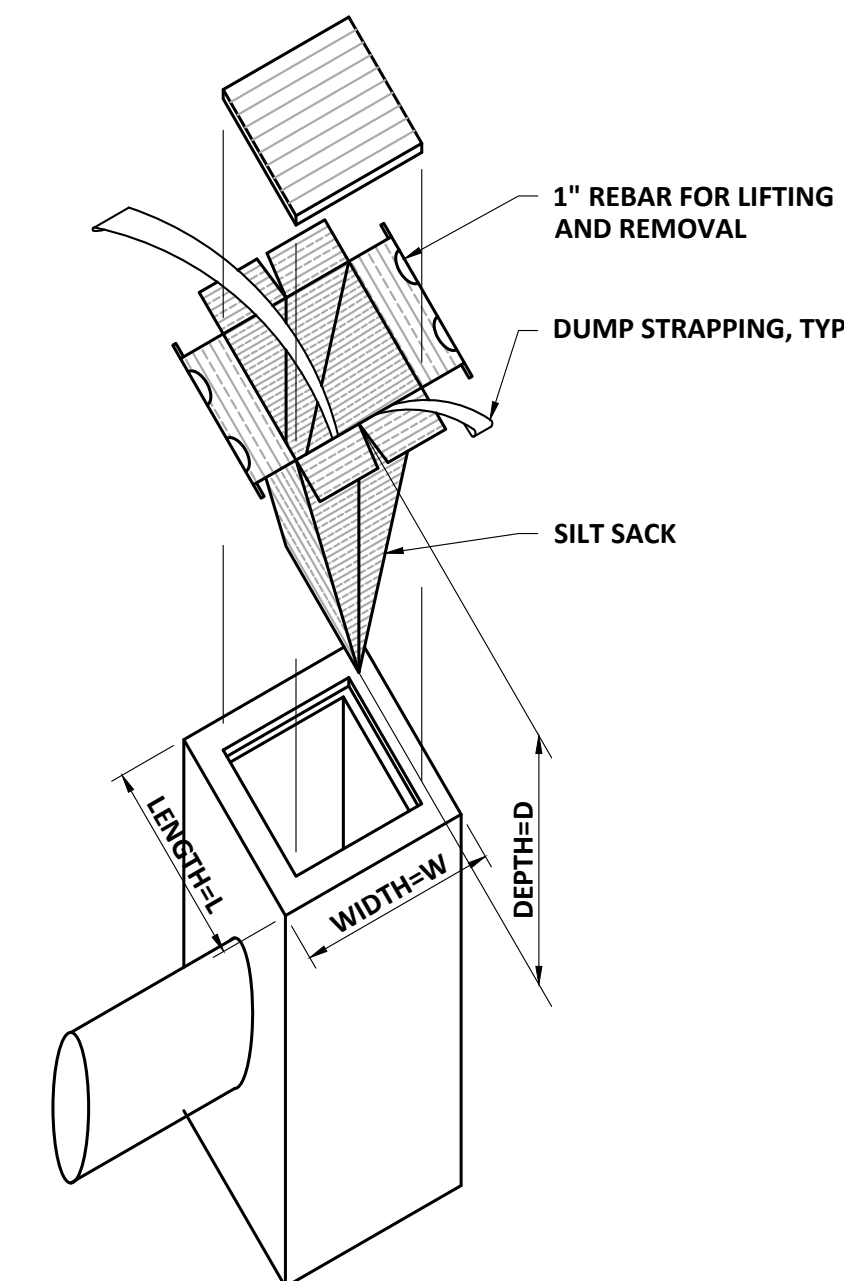


- NOTES:**
1. 1"x4" TRIANGULAR SURVEY STAKE - MINIMUM 10" IN LENGTH. PLACEMENT OF THE STAKE ACROSS THE FLOW OF THE WATER IS THOUGHT TO PROVIDE A "PINBALL EFFECT" TO HELP SLOW THE VELOCITY.
 2. 11 GAUGE STEEL - MINIMUM 1" WIDE BY 6" IN LENGTH STEEL STAPLE - 2"x8" STAPLE MAY BE REQUIRED IN CERTAIN SOIL CONDITIONS.
 3. STEEL PINS - 3/16" DIAMETER STEEL PIN BY 18" IN LENGTH WITH A 2" DIAMETER WASHER ON TOP. (SEE ILLUSTRATION)

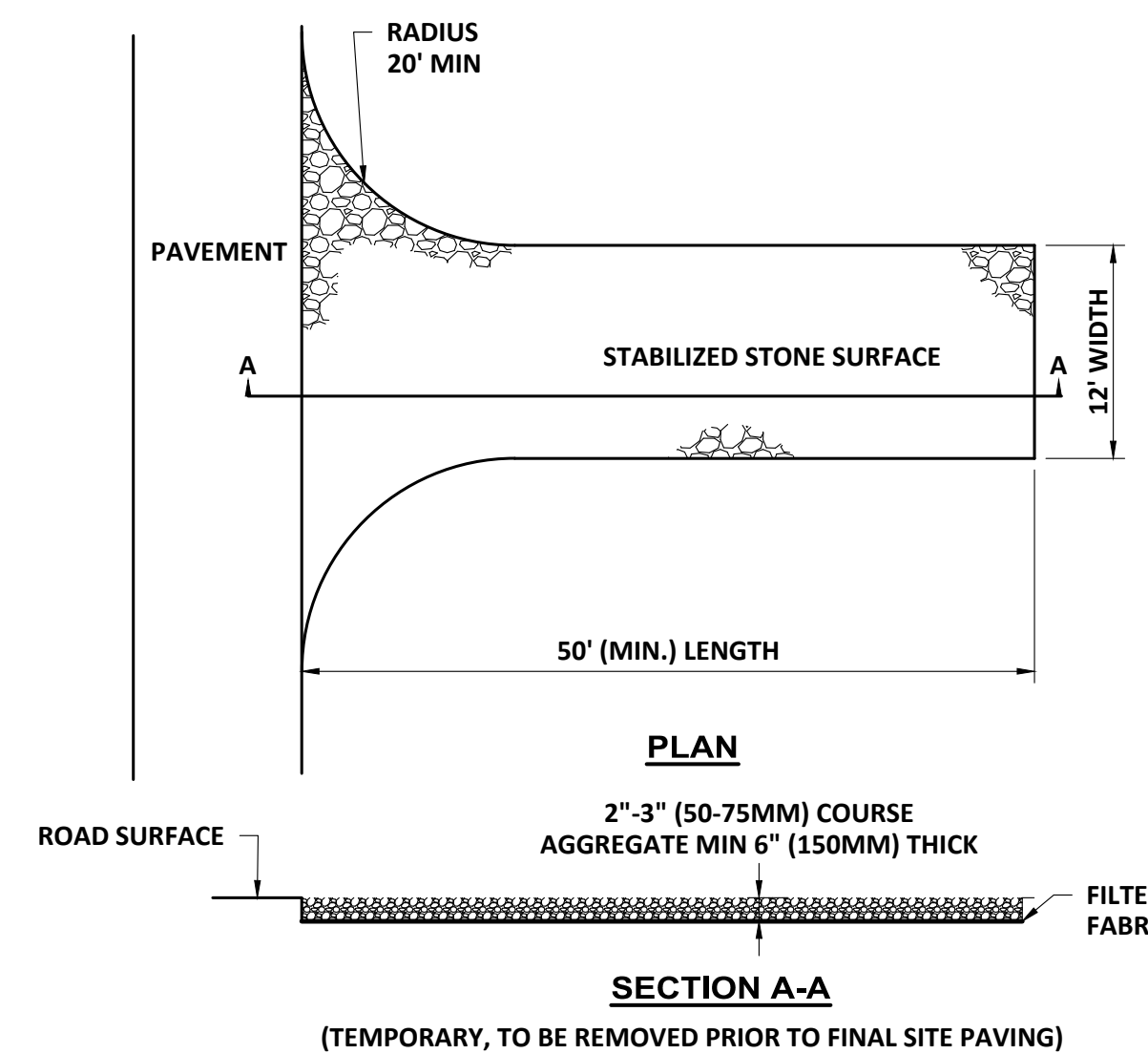
EROSION CONTROL MATTING - SLOPES
SCALE: "NTS"



HAYBALE CB INLET PROTECTION
SCALE: NTS



SILT SACK CATCH BASIN INLET
SCALE: NTS

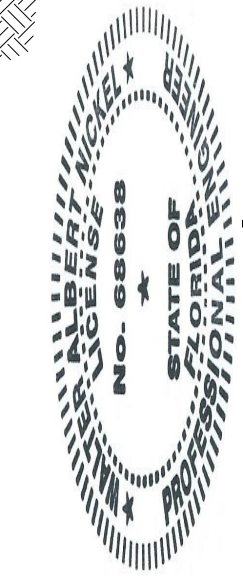


STABILIZED CONSTRUCTION ENTRANCE
SCALE: "NTS"

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

NO	REVISIONS	APPD	DATE

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LEVY COUNTY, FL
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EROSION CONTROL NOTES AND DETAILS