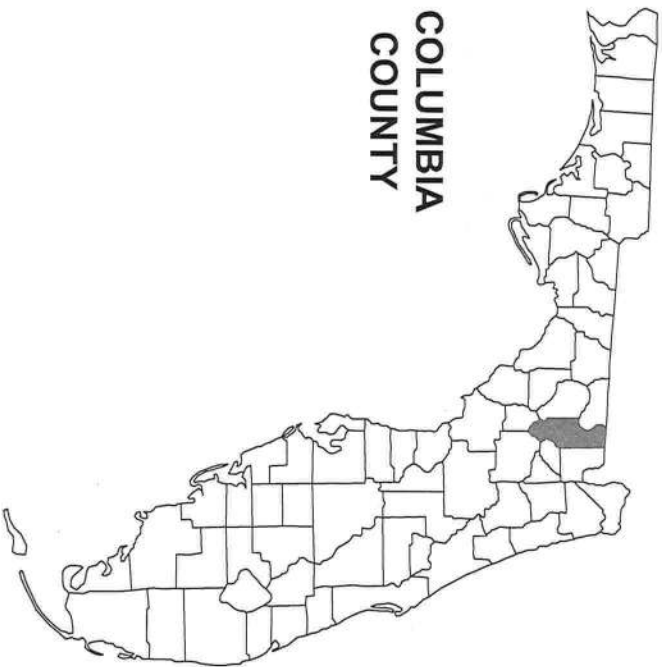
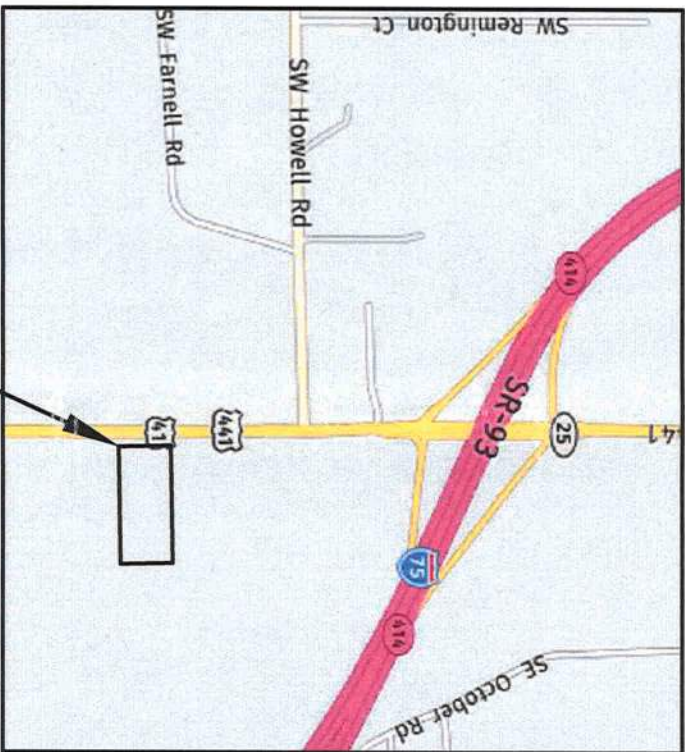


COLUMBIA
COUNTY



REPAIR SHOP ELLISVILLE ELLISVILLE, FL

SECTION 3, TOWNSHIP 6S, RANGE 17E



PROJECT LOCATION

PLANS PREPARED FOR:

TRUCK STOP 75, L.L.C.
4302 W BROWARD BLVD. SUITE 500
PLANTATION, FL 33317
(386) 758-0072



SHEET INDEX

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ATTACHMENT: SURVEY BY MARK D. DUREN & ASSOCIATES, INC.



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Robert P Bishop

Digitally signed by Robert P Bishop
DN: cn=Robert P Bishop,
ou=01-401 427500001695519718A0000276C,
o=NORTH FLORIDA PROFESSIONAL
SERVICES INC., c=US
Date: 2020.08.25 17:08:03 -04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED IN THE ELECTRONIC DOCUMENTS.

NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FL 32056
CERTIFICATE OF AUTHORIZATION: 29011
ROBERT PHILLIP BISHOP, JR., P.E. NO. 38546

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

COVER SHEET



North Florida Professional Services, Inc.
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Fax. 386-752-4674
P.O. BOX 180998
Tallahassee, FL 32318
Ph. 877-335-1525
Eng. Lic. 29011

REVISIONS:

TH CS RD

ENGINEER OF RECORD:
ROBERT PHILLIP BISHOP, JR.
P.E. NO.: 38546

JOB NUMBER: L190130ETS
DATE: 08/18/20
SHEET NO. 1

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO ENSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE COLUMBIA COUNTY, FLORIDA (DEPARTMENT OF GROWTH MANAGEMENT) OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.

2. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE ISSUED SUWANNEE RIVER WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT, FLORIDA DEPARTMENT OF TRANSPORTATION DRIVEWAY CONNECTION PERMIT, FLORIDA DEPARTMENT OF TRANSPORTATION UTILITY PERMIT, AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM PERMIT.

3. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.

4. BOUNDARY INFORMATION SHOWN, WAS OBTAINED FROM A BOUNDARY SURVEY PREPARED BY MARK D. DUREN & ASSOCIATES, FLORIDA CERTIFICATE NO. 7620.

5. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.

6. THE SITE IS LOCATED IN SECTION 3, TOWNSHIP 6 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA.

7. THE CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED. THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.

8. THE STORMWATER BASIN IS DESIGNED IN ACCORDANCE WITH SRWMD APPLICANT HANDBOOK VOLUME II AND 62-330 F.A.C.

9. ALL SLOPES OF THE STORMWATER BASIN SHALL BE GRASSSED. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.

10. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.

11. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS STATED OTHERWISE.

12. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.

13. ALL UTILITY CONSTRUCTION SHALL MEET THE COLUMBIA COUNTY, FLORIDA WATER AND WASTEWATER UTILITY STANDARDS, AVAILABLE FROM PUBLIC WORKS.

14. ALL SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLUMBIA COUNTY LAND DEVELOPMENT REGULATIONS.

15. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL REQUIRED UTILITY CONNECTIONS PRIOR TO BIDDING. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE CONNECTION TO THE EXISTING UTILITIES. THIS INCLUDES BUT IS NOT LIMITED TO MANHOLE CORING, WET TAPS, PAVEMENT REPAIRS AND DIRECTIONAL BORING.

16. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.

17. CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES, INCLUDING CULVERTS. PRIOR TO PLACING ANY BASE MATERIAL. DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.

18. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION), FLORIDA BUILDING CODE (CURRENT EDITION), AWWA SPECIFICATIONS, AND THE COLUMBIA COUNTY DEVELOPMENT STANDARDS UNLESS OTHERWISE NOTED.

19. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE UNSUITABLE MATERIAL TO A DEPTH OF 24" BELOW FINISHED GRADE WITHIN THE CONSTRUCTION LIMITS.

20. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.

21. THE CONTRACTOR SHALL SUBMIT A NOTICE OF CONSTRUCTION COMMENCEMENT TO THE WATER MANAGEMENT DISTRICT AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

22. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS IN ADVANCE OF THE PRESSURE AND LEAKAGE TESTS.

23. NO FINAL TESTING OR PRESSURE TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE COUNTY'S REPRESENTATIVE.

24. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE STORMWATER MANAGEMENT SYSTEMS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. A COPY OF THE AS-BUILT SURVEY (IN PAPER AND DIGITAL AUTOCAD FORMAT) MUST BE SUBMITTED TO THE COLUMBIA COUNTY, FLORIDA (DEPARTMENT OF GROWTH MANAGEMENT) AND THE ENGINEER.

25. THE CONTRACTOR SHALL SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT FEES.

26. IF DURING CONSTRUCTION OR OPERATION OF THE STORM WATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL, MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.

27. ALL CONCRETE SLABS ABUTTING EXTERIOR WALLS SHALL BE SOIL TREATED FOR TERMITES.

28. EXISTING IMPERVIOUS AREAS HAVE BEEN REMOVED FROM SITE.

SITE DATA TABLE
REPAIR SHOP ELLISVILLE

PARCEL ID NUMBER	03-6S-17-09560-001				
ZONING	CHI - COMMERCIAL HIGHWAY INTERCHANGE				
LAND USE	RESIDENTIAL				
CITY COUNCIL DISTRICT NUMBER	3				
PHYSICAL ADDRESS	14321 US HWY 441 LAKE CITY, FL 32024				
PROJECT AREALIMITS OF CONSTRUCTION (LOC)		SQ. FT.	ACRES	% OF SITE	% OF LOC
ON-SITE PROJECT AREA		161546	3.59	100.00%	94.63%
OFF-SITE PROJECT AREA		9166	0.21	0.00%	5.37%
TOTAL PROJECT AREA (ON + OFF-SITE)		170712	3.92	100.00%	100.00%
EXISTING IMPERVIOUS AREA ON-SITE					
EXISTING ASPHALT PAVEMENT		0	0.00	0.00%	0.00%
EXISTING CONCRETE		11638	0.27	7.20%	6.82%
EXISTING BUILDING		2478	0.06	1.53%	1.45%
EXISTING STORMWATER MANAGEMENT FACILITY		0	0.00	0.00%	0.00%
TOTAL EXISTING IMPERVIOUS AREA ON-SITE		14116	0.32	8.74%	8.27%
PROPOSED IMPERVIOUS AREA ON-SITE					
EXISTING ASPHALT PAVEMENT TO REMAIN		0	0.00	0.00%	0.00%
EXISTING CONCRETE TO REMAIN		0	0.00	0.00%	0.00%
EXISTING BUILDING TO REMAIN		0	0.00	0.00%	0.00%
EXISTING STORMWATER MANAGEMENT FACILITY TO REMAIN		0	0.00	0.00%	0.00%
PROPOSED ASPHALT PAVEMENT		81101	1.86	50.20%	47.51%
PROPOSED CONCRETE		8370	0.19	5.18%	4.90%
PROPOSED BUILDING		11875	0.27	7.35%	6.96%
PROPOSED STORMWATER MANAGEMENT FACILITY		31652	0.73	19.59%	18.54%
TOTAL PROPOSED IMPERVIOUS AREA ON-SITE		132998	3.05	82.33%	77.91%
PROPOSED IMPERVIOUS AREA OFF-SITE					
EXISTING ASPHALT PAVEMENT TO REMAIN		0	0.00	0.00%	0.00%
EXISTING CONCRETE TO REMAIN		0	0.00	0.00%	0.00%
EXISTING BUILDING TO REMAIN		0	0.00	0.00%	0.00%
EXISTING STORMWATER MANAGEMENT FACILITY TO REMAIN		0	0.00	0.00%	0.00%
PROPOSED ASPHALT PAVEMENT		9166	0.21	0.00%	5.37%
PROPOSED CONCRETE		0	0.00	0.00%	0.00%
PROPOSED BUILDING		0	0.00	0.00%	0.00%
PROPOSEDSTORMWATER MANAGEMENT FACILITY		0	0.00	0.00%	0.00%
TOTAL PROPOSED IMPERVIOUS AREA OFF-SITE		9166	0.21	0.00%	5.37%
TOTAL PROPOSED IMPERVIOUS AREA (ON + OFF SITE)		142164	3.26	88.00%	83.28%
PROPOSED PERVIOUS AREA (ON + OFF SITE)					
PROPOSED PARKING LANDSCAPE AREA ON-SITE		2748	0.06	1.70%	1.61%
PROPOSED PARKING LANDSCAPE AREA OFF-SITE		0	0.00	0.00%	0.00%
TOTAL PROPOSED PERVIOUS AREA (ON + OFF SITE)		28548	0.66	17.67%	16.72%
REQUIRED PARKING					
PROVIDED PARKING					



GENERAL NOTES
REPAIR SHOP ELLISVILLE
ELLISVILLE, FL

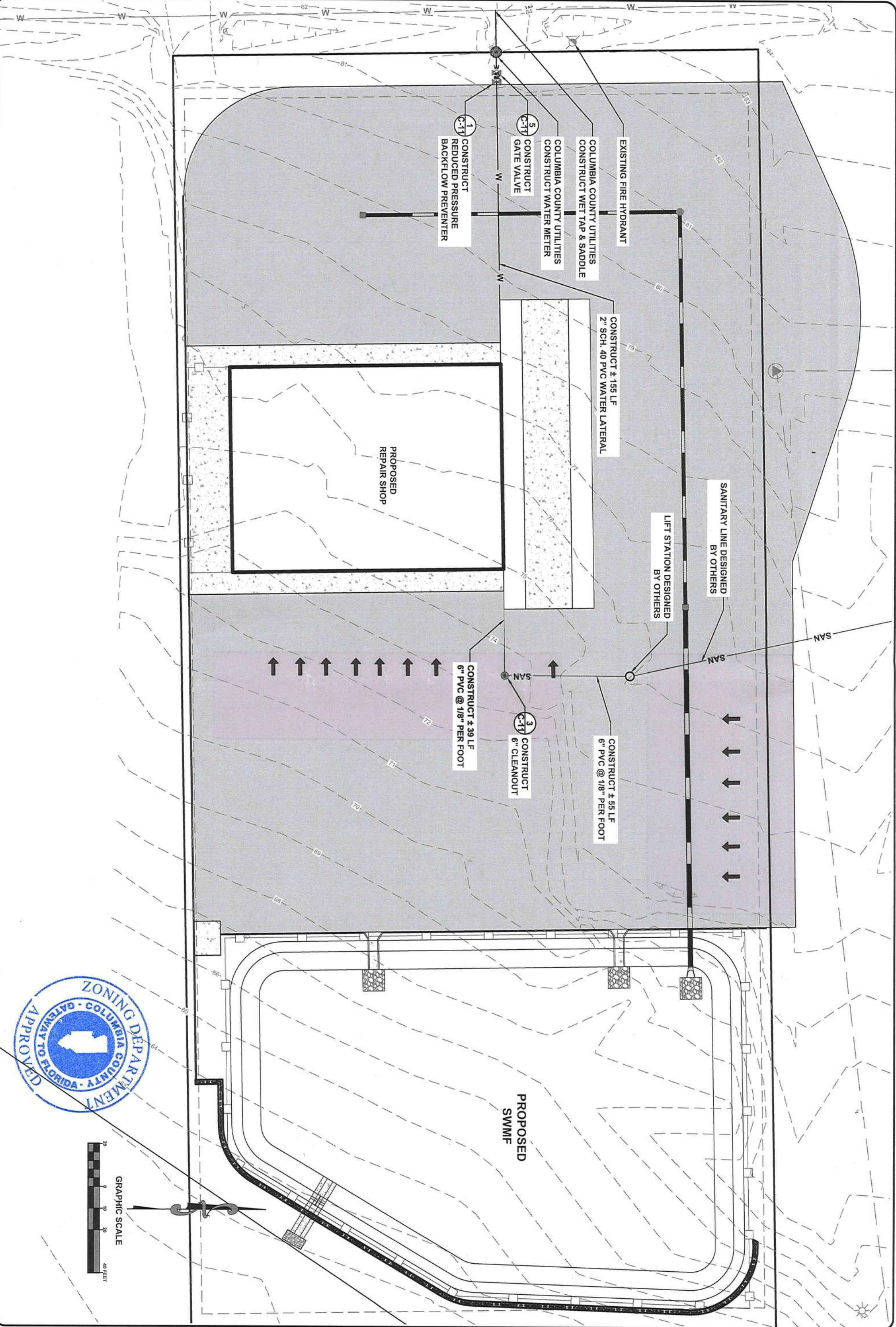


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Eng. Lic.29011

REVISIONS:

JOB NUMBER: L190130ETS	DESIGNED BY: TH	DRAFTED BY: CS	CHECKED BY: RD
ENGINEER OF RECORD: ROBERT PHILLIP BISHOP, JR. P.E. NO.: 38546			
DATE: 07/19			
SHEET NO.			





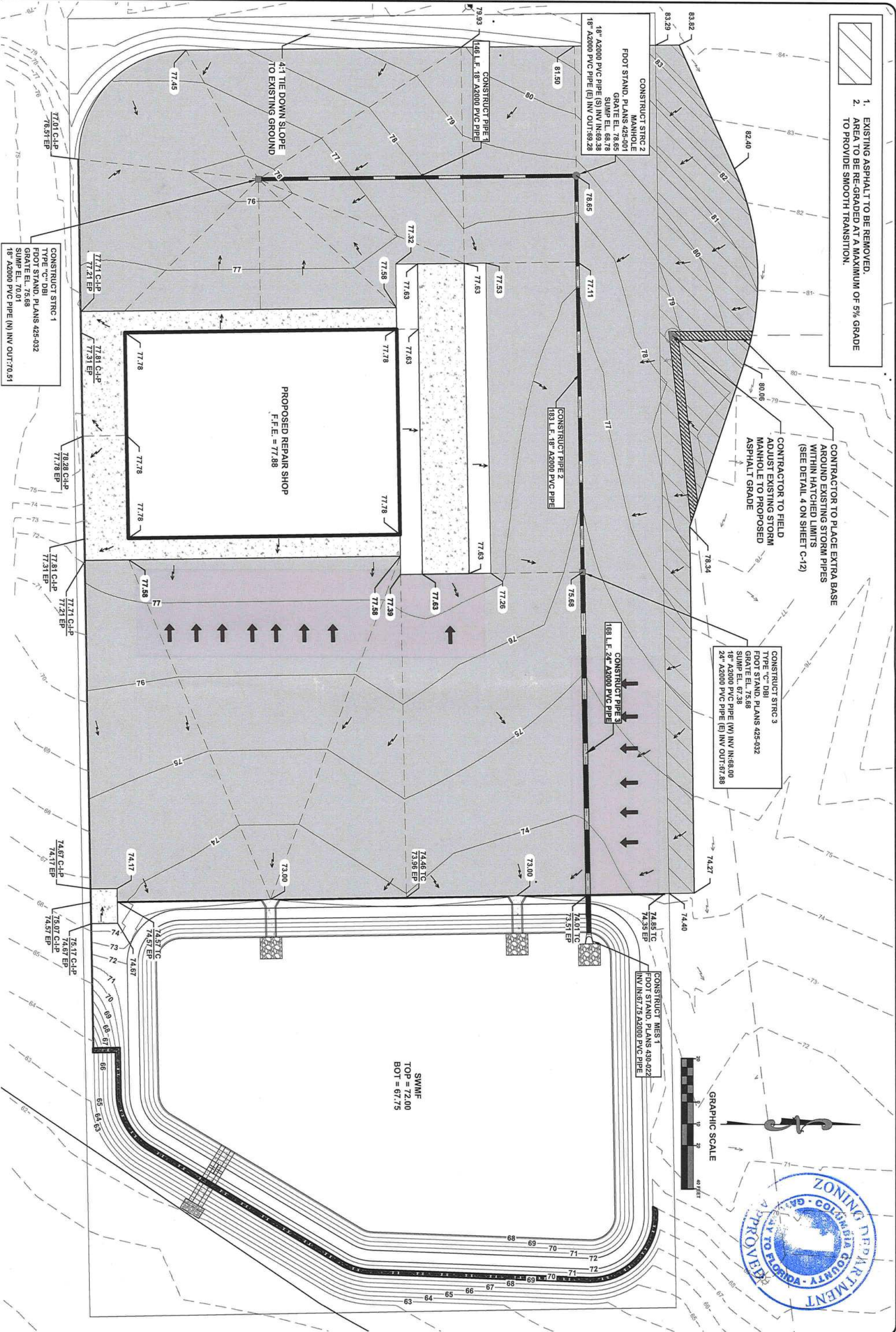
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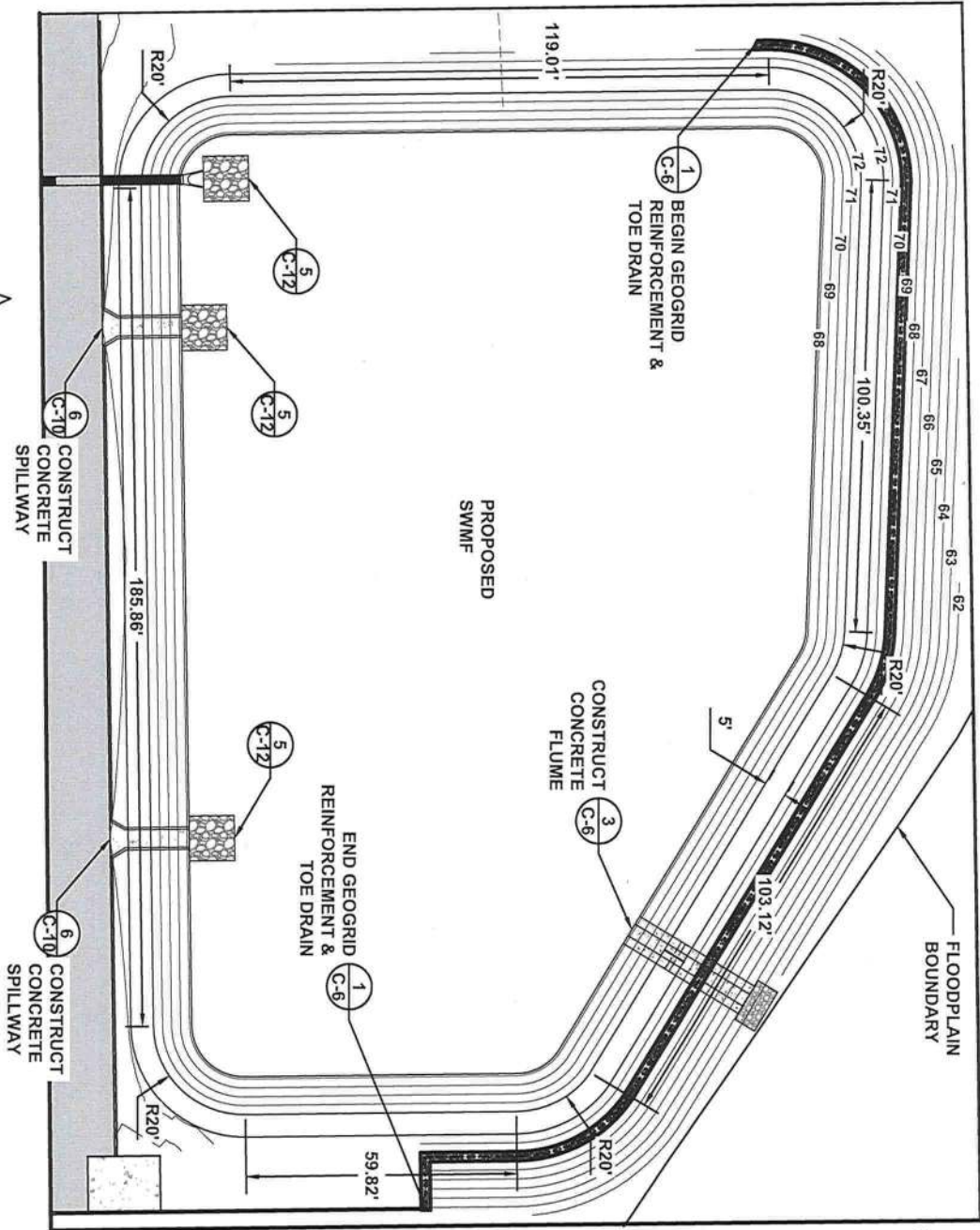
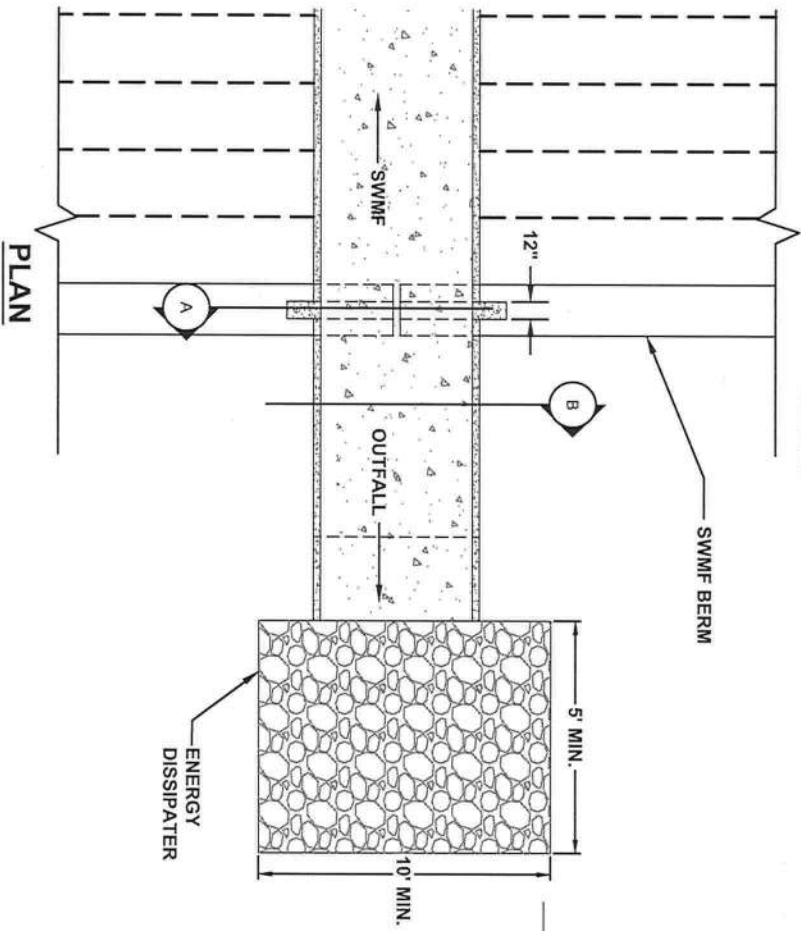
UTILITY PLAN
REPAIR SHOP ELLISVILLE
ELLISVILLE, FL



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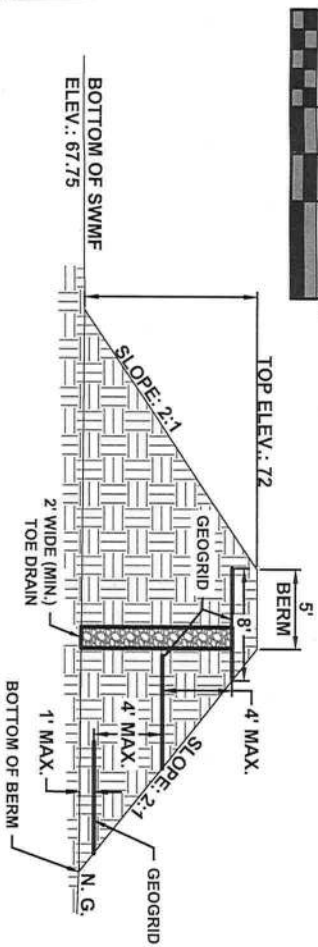
3 CONCRETE FLUME DETAIL
C-6 SCALE: N.T.S.



2 STORMWATER MANAGEMENT FACILITY DETAIL
C-6 SCALE: N.T.S.

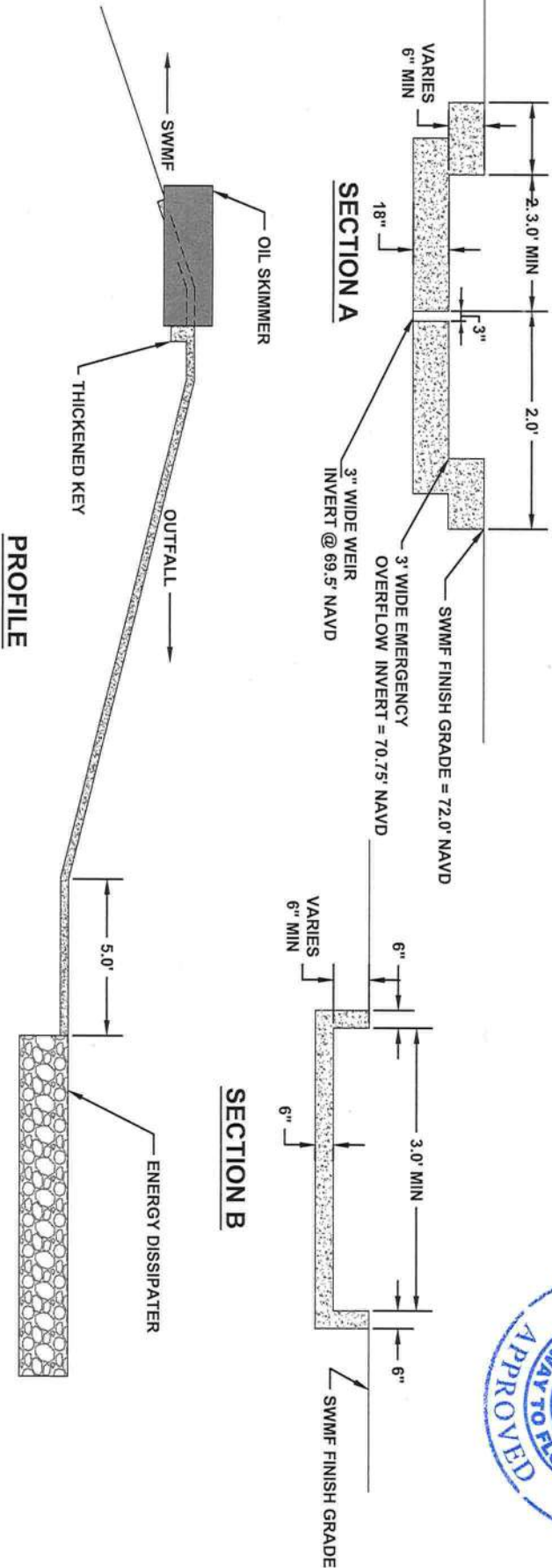


1 TOE DRAIN & GEOGRID DETAIL
C-6 SCALE: N.T.S.



- NOTES:
1. BIAXIAL GEOGRID WITH A MINIMUM TENSILE STRENGTH AT 2% STRAIN OF 400 LB/FT (SUCH AS TENCATE MIRAGRID XL OR APPROVED EQUIVALENT) SHALL BE PLACED WITHIN THE SLOPE.
 2. GEOGRID SHALL BE PLACED SUCH THAT IT EXTENDS HORIZONTALLY 8 FEET FROM THE SLOPE FACE AND HAS A MAXIMUM VERTICAL SPACING OF 4 FEET.
 3. TOE DRAIN SHALL CONSIST OF FREE-DRAINING STONE (PDOT NO. 57 STONE OR APPROVED EQUIVALENT) AND SHALL BE WRAPPED WITH A FILTER FABRIC TO PREVENT MIGRATION OF FINE PARTICLES INTO THE STONE.
 4. TOE DRAIN SHALL BE INSTALLED HORIZONTALLY AT THE BACKSIDE OF THE MIDDLE LAYER OF GEOGRID.
 5. TOE DRAIN SHALL BE DAYLIGHTED TO ALLOW FOR THE TOE DRAIN TO BE FREE-DRAINING.
 6. GEOGRID REINFORCEMENT AND TOE DRAIN SHALL BE INSTALLED TO EXTEND HORIZONTALLY TO WHERE THE BERM HEIGHT EXCEEDS 5 FEET.
 7. INSTALLATION OF TOE DRAIN AND CONSTRUCTION OF BERM SHALL BE OBSERVED BY A LICENSED GEOTECHNICAL ENGINEER (OR A REPRESENTATIVE OF ECS).

GRAPHIC SCALE



SWMF PLAN
REPAIR SHOP ELLISVILLE
ELLISVILLE, FL

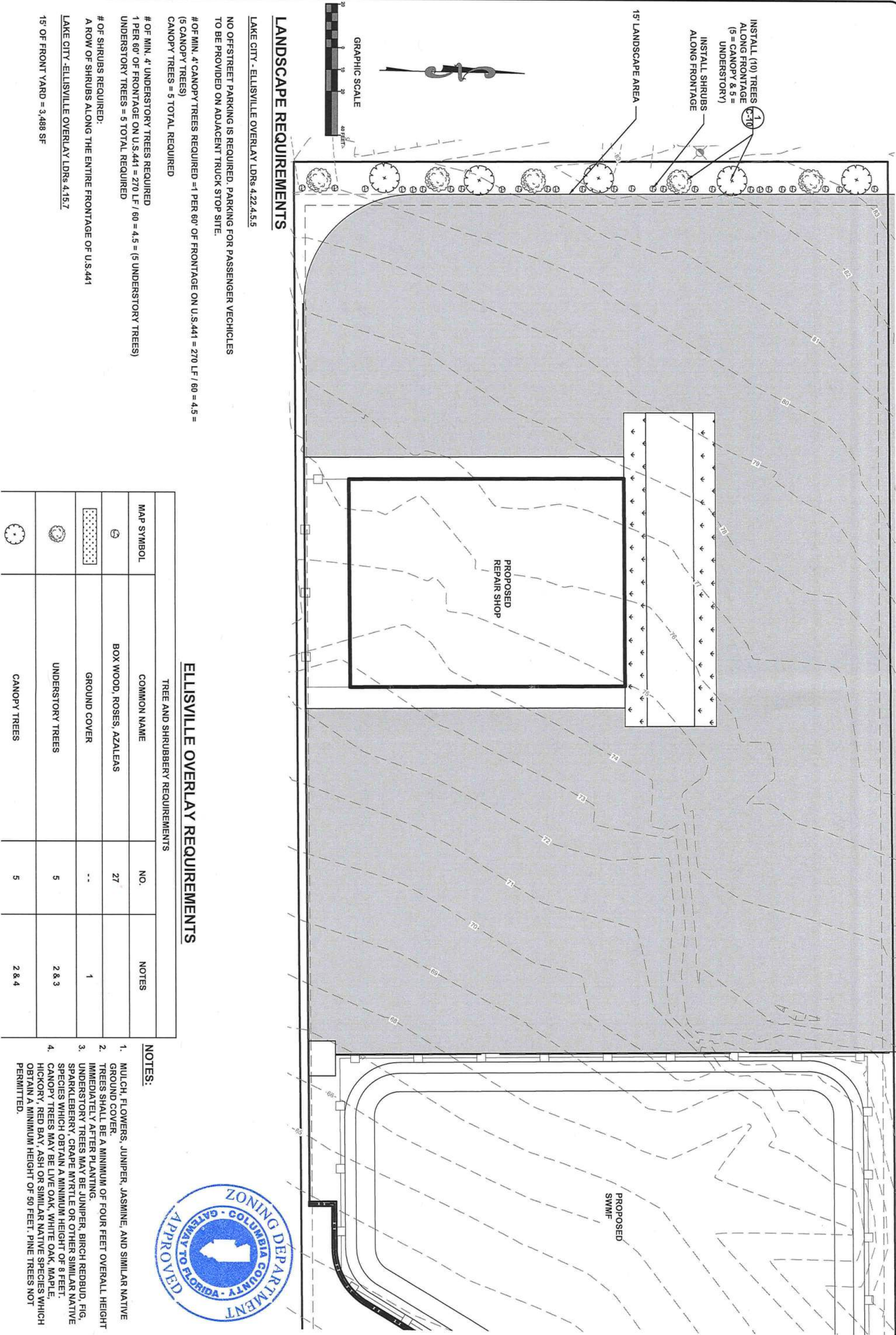


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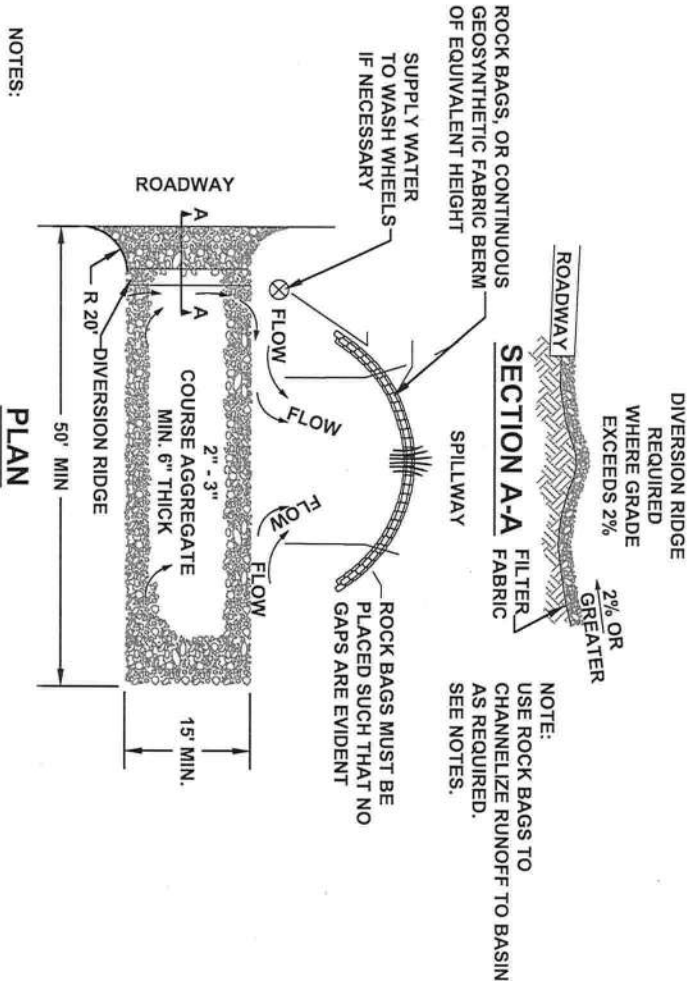
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DESIGNED BY: TH	DRAFTED BY: CS
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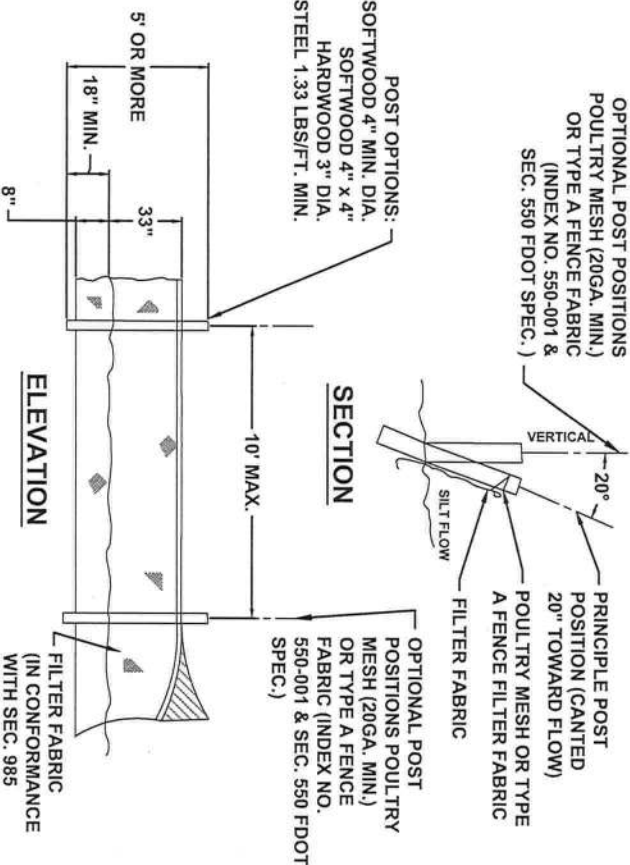
EROSION CONTROL NOTES

1. THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
2. THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. IF THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMP's FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL OF 0.5 INCHES OR GREATER, AND REPAIRED OR REPLACED AS NECESSARY.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
7. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
8. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
9. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
12. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
13. ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF SYNTHETIC BALES OR SODDING.
14. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
15. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
16. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.
17. EXCESS DIRT SHALL BE REMOVED DAILY.
18. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.
19. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES. THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.
20. SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.



1 TEMPORARY CONSTRUCTION ENTRANCE

C-8 SCALE: N.T.S.



2 TYPE IV SILT FENCE

C-8 SCALE: N.T.S.



EROSION CONTROL NOTES

REPAIR SHOP ELLISVILLE

ELLISVILLE, FL



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REVISIONS:

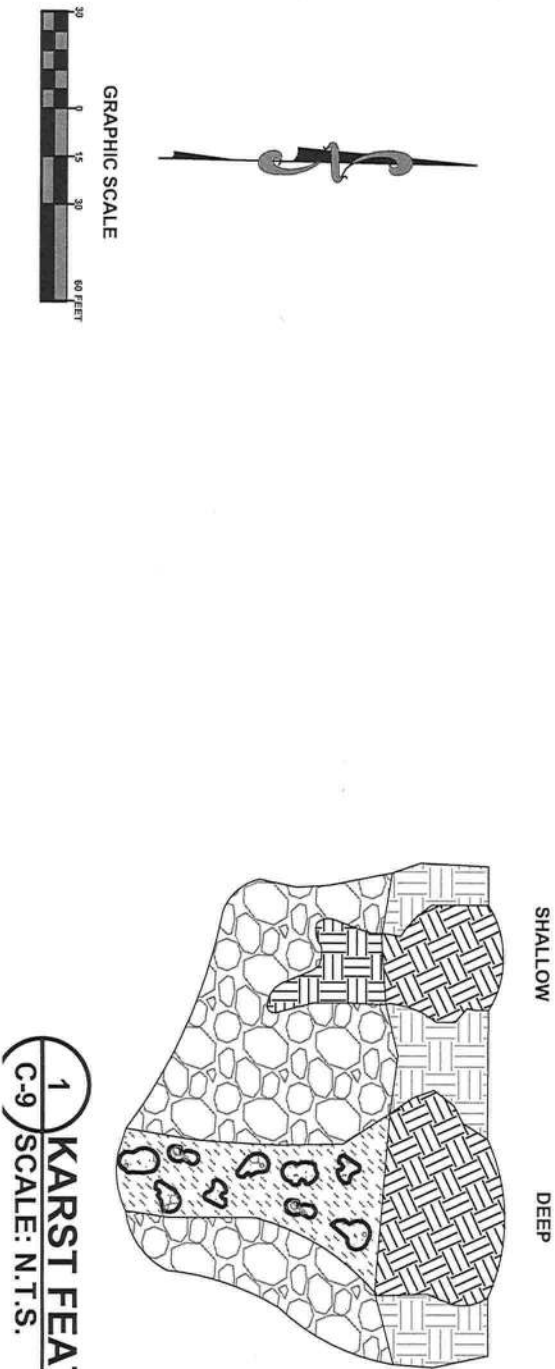
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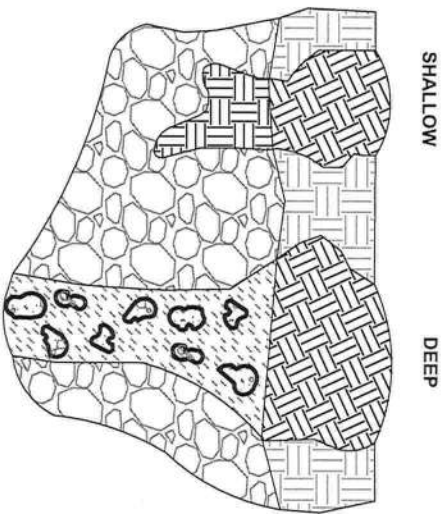
JOB NUMBER: L190130ETS

DESIGNED BY: TH CS RD

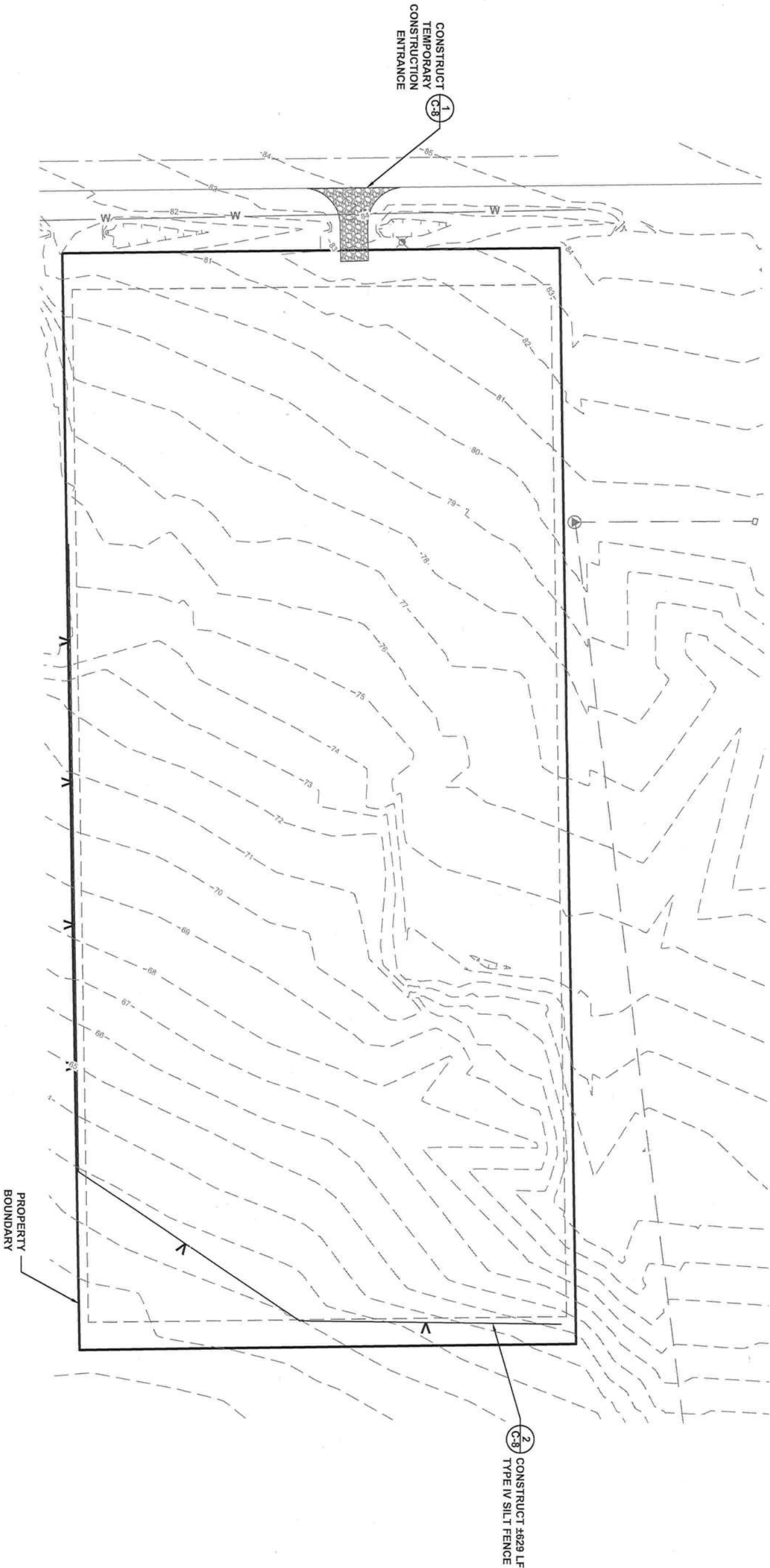
ENGINEER OF RECORD: ROBERT PHILLIP BISHOP, JR. P.E. NO.: 38546



1 KARST FEATURE REPAIR DETAIL
C-9 SCALE: N.T.S.



- NOTES:
THE FOLLOWING SHALL BE PERFORMED IN THE EVENT ANY KARST FEATURES FORM DURING CONSTRUCTION - E.G. SOLUTION CAVITIES, CHIMNEYS, SINKHOLES.
1. NOTIFY THE WATER MANAGEMENT DISTRICT AND THE APPLICABLE MUNICIPAL OR COUNTY PUBLIC WORKS IMMEDIATELY WHEN THE FEATURES ARE ENCOUNTERED. THE METHOD OF REPAIR SHALL BE SUBMITTED FOR REVIEW, COMMENT, AND APPROVAL PRIOR TO ATTEMPTING ANY REPAIR.
 2. SHALLOW KARST FEATURES ARE TYPICALLY LESS THAN 5' DEEP AND ONLY HAVE SMALL VOIDS IN THE LIMESTONE. THE FEATURE CAN BE REPAIRED BY BACKFILLING WITH A LOWER PERMEABILITY MATERIAL SUCH AS CLAYEY-SAND OR CLAY. COMPACT THE BACKFILL AND CREATE A SMALL MOUND SLIGHTLY ABOVE GRADE TO ACCOUNT FOR SETTLING.
 3. DEEP KARST FEATURES SHALL BE REPAIRED MORE PERMANENTLY. EXCAVATE THE FEATURE TO THE LIMESTONE BEDROCK. PLUG VOIDS IN THE BEDROCK WITH CLEAN GROUT. BACKFILL OVER THE PLUG WITH A LOWER-PERMEABILITY MATERIAL SUCH AS CLAYEY-SAND OR CLAY. COMPACT THE BACKFILL TO GRADE.



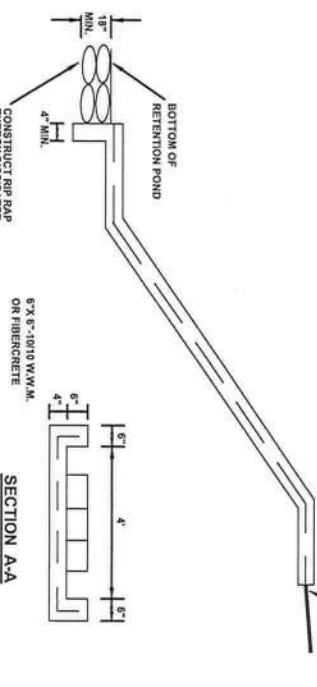
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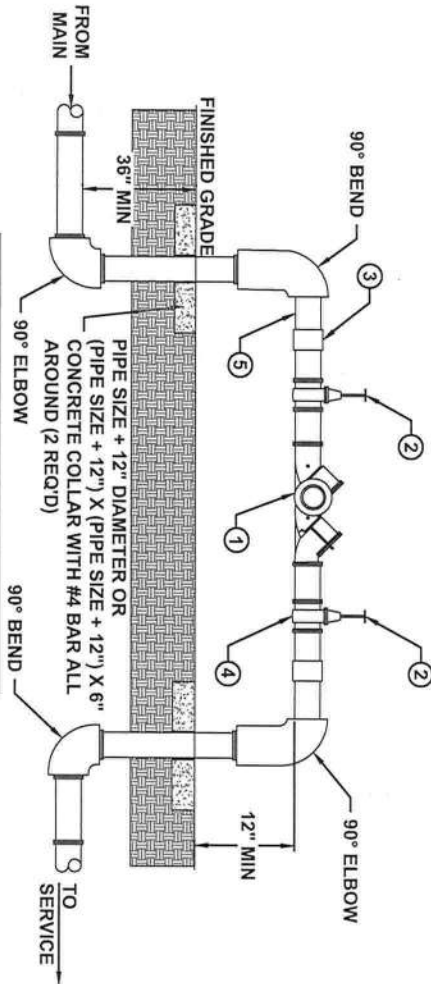
REVISIONS:

EROSION CONTROL PLAN
REPAIR SHOP ELLISVILLE
ELLISVILLE, FL



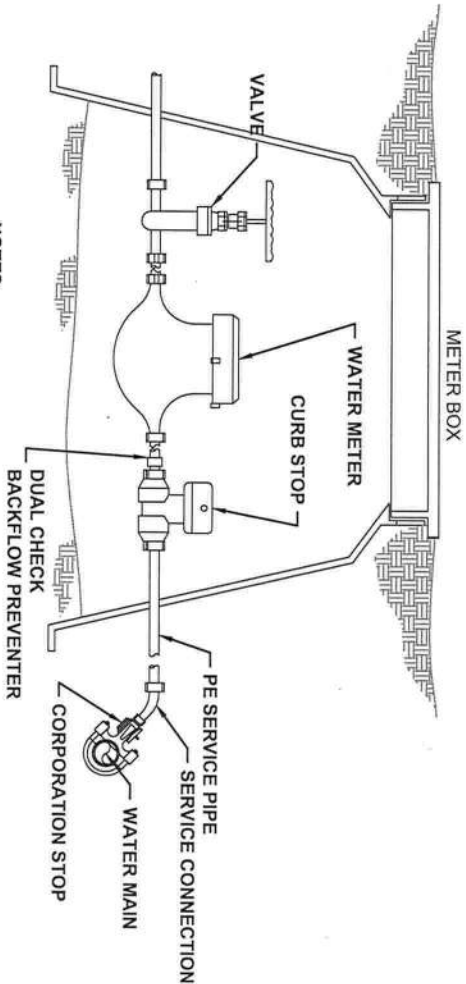
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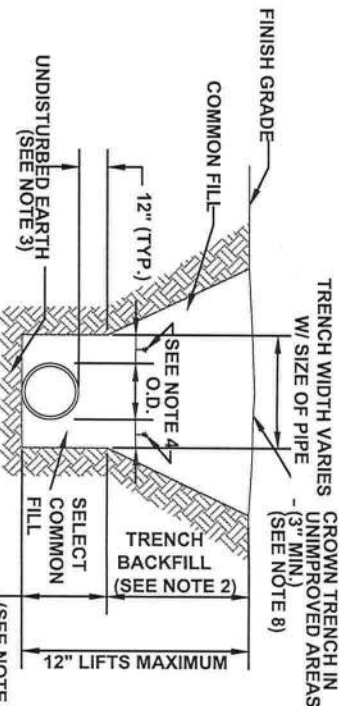


ITEM	DESCRIPTION
1	BACKFLOW PREVENTER
2	GATE VALVE
3	UNION
4	TEST COCKS
5	THREADED NIPPLE

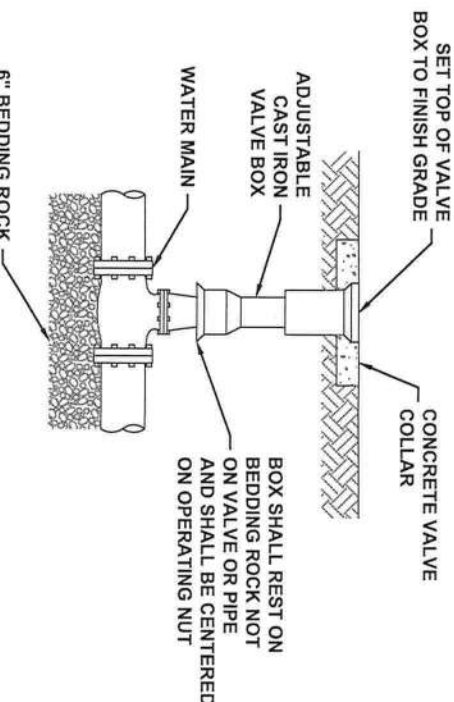
- NOTES:
- UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.
 - IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTION DEVICE. UNDER NO CIRCUMSTANCE, SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION OTHER THAN BACKFLOW DEVICE TESTING.
 - A CONBRACO SERIES 40-000 FREEZE PROTECTION VALVE SHALL BE INCLUDED. PROVIDE AND INSTALL COVER OVER BACKFLOW PREVENTER AS REQ'D BY LOCAL AUTHORITIES
 - BACKFLOW PREVENTER SHALL COMPLY WITH NFPA 24.
- 1 REDUCED PRESSURE BACKFLOW PREVENTER**
C-11 SCALE: N.T.S.



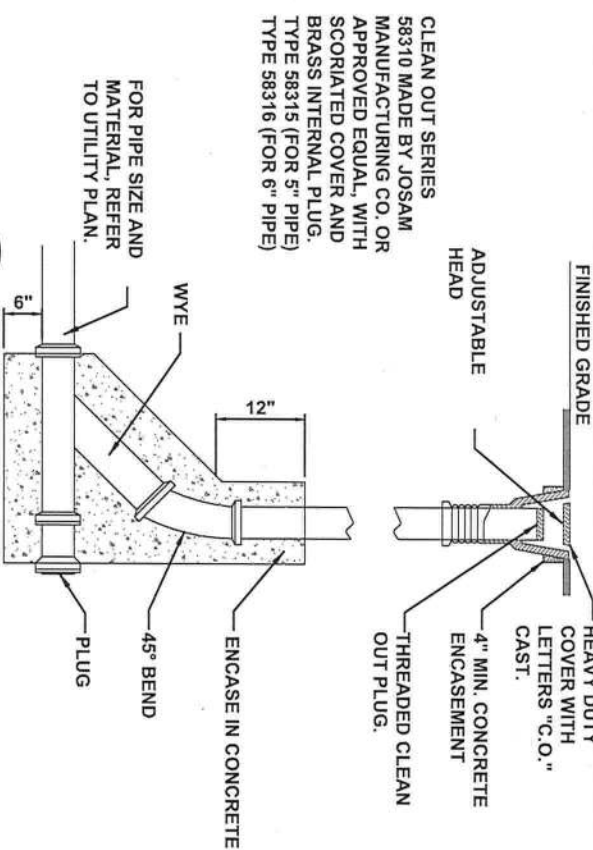
- NOTES:
- P.E. TUBING IS TO BE BACKFILLED BY HAND UP TO THE TOP OF THE SERVICE.
- 4 METER BOX ASSEMBLY**
C-11 SCALE: N.T.S.



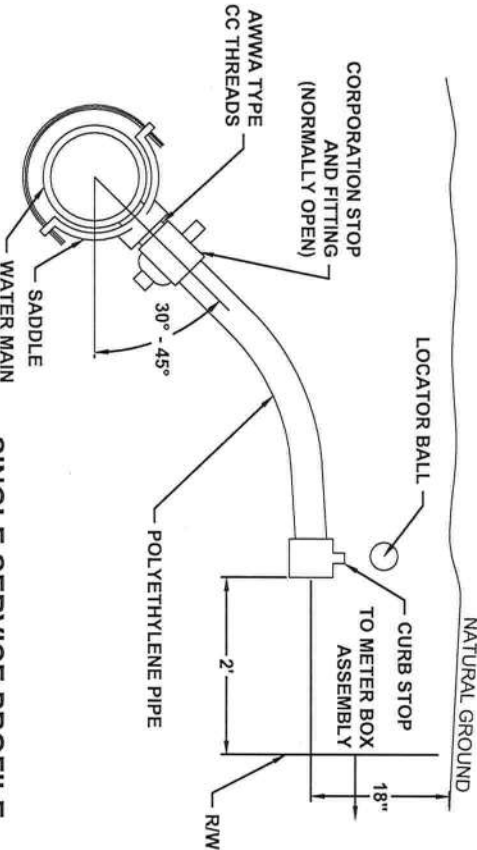
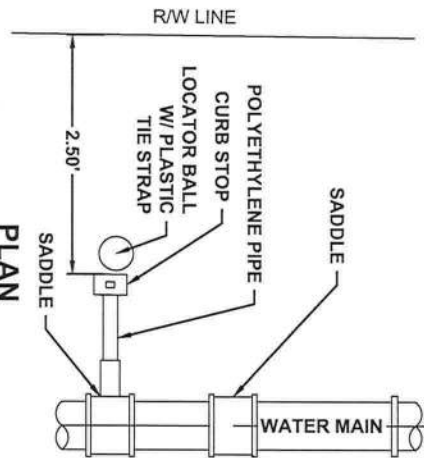
- NOTES:
- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.
 - (*) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - PROVIDE TRENCH SLOPING AND BRACING AS REQUIRED FOR SAFETY.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN PAVED AREAS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
- 2 TRENCH AND BACKFILL DETAILS**
C-11 SCALE: N.T.S.



- NOTES:
- PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 - THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.
- 5 VALVE AND BOX DETAIL**
C-11 SCALE: N.T.S.



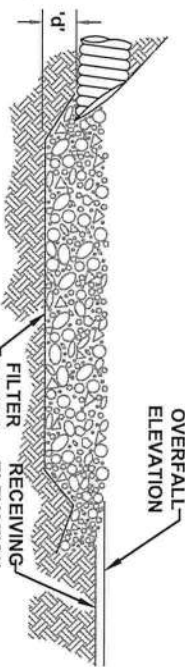
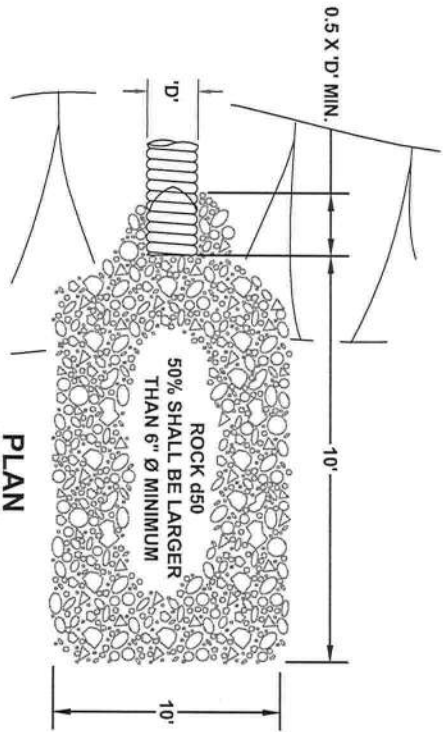
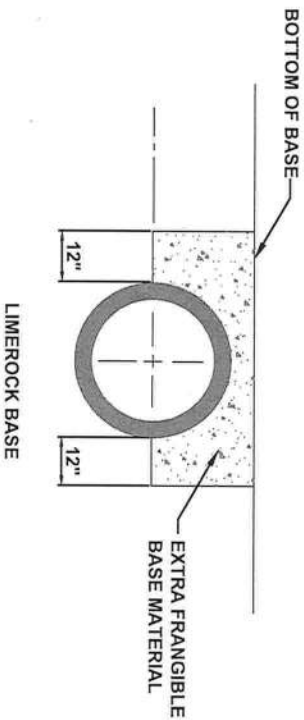
3 CLEANOUT DETAIL
C-11 SCALE: N.T.S.



SINGLE SERVICE PROFILE

- NOTES:
- ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/ PACK JOINT TYPE CONNECTIONS.
 - NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 - EACH SERVICE SHALL TERMINATE AT A CURB STOP WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" x 2" x 18" STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE NUMBER OF THE LOT TO BE SERVED.
 - CONTRACTOR SHALL PROVIDE LOCATOR BALLS W/ PLASTIC TIE STRAPS. LOCATOR BALLS SHOULD BE SECURED TO LATERAL W/ TIE STRAP.
- 6 WATER SERVICE CONNECTION DETAILS SINGLE**
C-11 SCALE: N.T.S.

4 EXTRA BASE FOR CROSS CULVERTS UNDER FLEXIBLE PAVEMENTS
C-12 SCALE: N.T.S.



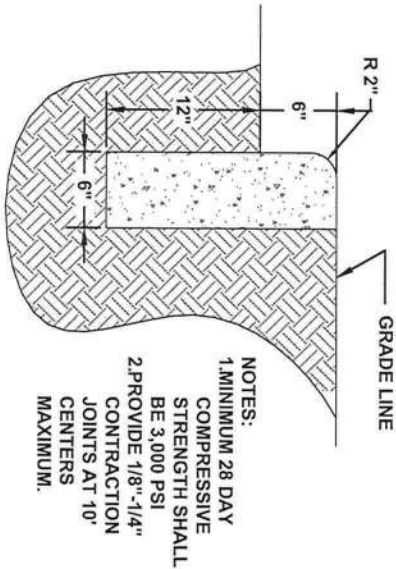
THICKNESS ('d') = 1.5 x MAXIMUM AGGREGATE DIAMETER - 6" MINIMUM

- NOTES:
1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
 2. APRON SHALL BE AT A ZERO GRADE AND ALIGNED STRAIGHT.
 3. FILTER FABRIC SHALL EXTEND 6" PAST AGGREGATE LIMITS.

SECTION

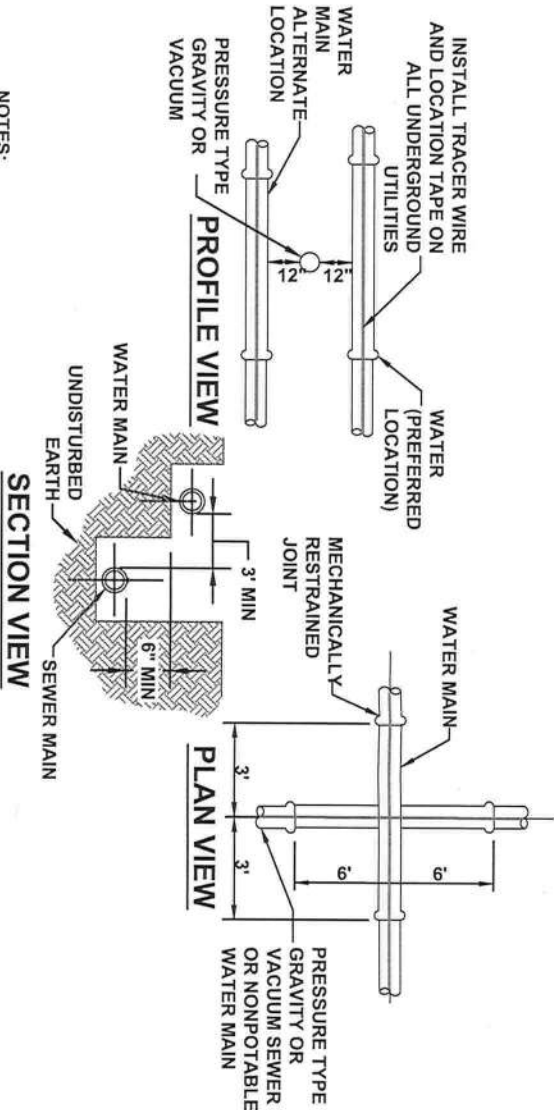


1 HEADER CURB DETAIL
C-12 SCALE: N.T.S.



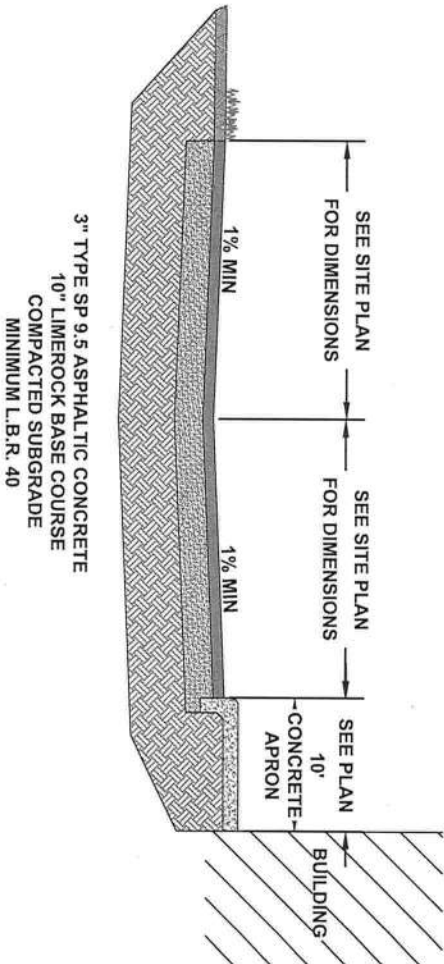
- NOTES:
1. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI
 2. PROVIDE 1/8"-1/4" CONTRACTION JOINTS AT 10' MAXIMUM.

2 WATER - SEWER SEPARATION DETAILS
C-12 SCALE: N.T.S.



- NOTES:
1. THE MINIMUM HORIZONTAL DISTANCE BETWEEN THE OUTSIDE OF A WATER MAIN AND SEWER MAIN SHALL BE 6' WITH A PREFERRED 10' SEPARATION.
 2. WHERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATERMAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, THEN THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER MAIN OR NON-POTABLE WATER MAIN. THE HORIZONTAL SEPARATION SHALL BE NO LESS THAN 3'.
 3. WHEN A SEWER MAIN AND A WATER MAIN CROSS, THE WATERMAIN SHOULD BE A MINIMUM OF 18" ABOVE OR BELOW THE SEWER.
 4. FOR ALL PIPE CROSSINGS, THE PIPE JOINTS SHALL BE ARRANGED SO THAT ALL PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN SIX FEET BETWEEN ANY TWO JOINTS.
 5. IF THE HORIZONTAL OR VERTICAL CLEARANCE LISTED HEREIN CANNOT BE ACHIEVED THE WATERMAIN CAN BE ENCASED IN 4" OF CONCRETE.

3 PARKING APRON TYPICAL SECTION
C-12 SCALE: N.T.S.



5 ENERGY DISSIPATER DETAIL
C-12 SCALE: N.T.S.



-US HIGHWAY 41 & 441

5' CLEAR
SPACE AROUND
FIRE HYDRANT

2018 FLOW TEST RESULTS:
 STATIC PRESSURE = 50
 RESIDUAL PRESSURE = 40
 PITOT PRESSURE = 40
 ORIFICE SIZE = 2.5
 FLOW GPM = 954

EXISTING FIRE HYDRANT

24' FIRE ACCESS PATH

VEHICLE TRACKING PATH
FIRE TRUCK

PROPOSED
REPAIR SHOP

TRUCK STOP 75, LLC

PROPOSED
/SWMF

FIRE ACCESS PLAN

REPAIR SHOP ELLISVILLE
ELLISVILLE, FL

North Florida Professional Services, Inc.

P.O. BOX 3823	P.O. BOX 180998
Lake City, FL 32025	Tallahassee, FL 32318
Ph. 386-752-4675	Ph. 877-335-1525
Fax. 386-752-4674	Eng. Lic.29011

	EXISTING FIRE HYDRANT ASSEMBLY
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LEGEND