## DEVELOPMENT PLANS FOR:

# COPELAND PARK PHASE I

## ALACHUA COUNTY, FLORIDA

SECTION 14 & 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST

## **SUBMITTED TO:**

SUWANNEE RIVER WATER MANAGEMENT DISTRICT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CITY OF ALACHUA

#### **GENERAL NOTES**

(PROJECT SITE AREA)=	117,805 S.F.	51.4%
POD 1:		
BUILDING FOOTPRINT AREA=	13,300 S.F.	<i>5.8%</i>
CONC. /PAVE AREA=	20,966 S.F.	9.1%
TOTAL IMPERVIOUS AREA=	33,266 S.F.	14.9%
OPEN AREA=	195 990 S F	85.5%

POD 1: DESCRIPTION: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A  $\pm 13,300$  SF AND DEVELOPMENT FACILITIES, PARKING AREA, STORMWATER CONVEYANCE SYSTEM, AND ASSOCIATED UTILITY

PROPOSED DEVELOPMENT

229,256 S.F. 100.0% 5.26 ACRES

#### POD 2:

1. DEVELOPMENT DATA:

OVERALL SITE AREA=

<i>2</i> .		
EX. IMPERVIOUS (FROM POD 1)=	<i>33,266 S.F.</i>	5.1%
BUILDING FOOTPRINT AREA=	11,750 S.F.	5.1%
CONC./PAVE AREA=	11,578 S.F.	5.1%
TOTAL IMPERVIOUS AREA=	56,594 S.F.	24.7%
ODEN ADEA	170 000 0 5	75 70

DESCRIPTION: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A ±11,750 SF RESEARCH AND DEVELOPMENT FACILITIES, PARKING AREA, STORMWATER CONVEYANCE SYSTEM, AND ASSOCIATED UTILITY

2. MINIMUM BUILDING / YARD SETBACKS PER ILW ZONING ARE AS FOLLOWS:

PRIMARY BUILDING (ILW)

SIDE: 15', EXCEPT WHERE RAILROAD SPUR ABUTS SIDE OR REAR PROPERTY, THEN NONE REAR: 15', EXCEPT WHERE RAILROAD SPUR ABUTS SIDE OR REAR PROPERTY, THEN NONE ARTERIAL & COLLECTOR ROADS: 70' FROM THE CENTER LINE OF

MINIMUM LOT AREA	NONE
MINIMUM LOT WIDTH	NONE
MAX BUILDING HEIGHT	<i>65'</i>
MAX LOT COVERAGE	NONE
PROPOSED FAR	0.109

3. PARKING CALCULATIONS:
POD 1 MAIN BUILDIN

POD 1 MAIN BUILDING REQUIRED:
CAR: 1 SPACE PER 350 SQ. FT. FLOOR AREA
13,300 SQ. FT. / 350 SQ. FT. = MINIMUM 38 SPACES
38 SPACES X 125% = MAXIMUM 48 SPACES
PROVIDED: 39 SPACES TOTAL

BICYCLE: 1 SPACE/10 CAR SPACES = 39 / 10 = 4 SPACES REQUIRED; 4 SPACES PROVIDED

POD 2 MAIN BUILDING REQUIRED:
CAR: 1 SPACE PER 350 SQ. FT. FLOOR AREA
11,750 SQ. FT. / 350 SQ. FT. = MINIMUM 34 SPACES
34 SPACES Y 125% — MAYIMUM 43 SPACES

11,750 SQ. FT. / 350 SQ. FT. = MINIMUM 34 SPACES
34 SPACES X 125% = MAXIMUM 43 SPACES
PROVIDED: 33 SPACES TOTAL + 1 ADDITIONAL SPACE FROM POD 1
= 34 SPACES

BICYCLE: 1 SPACE/10 CAR SPACES = 34 / 10 = 3 SPACES REQUIRED; 4 SPACES PROVIDED

4. DATE OF BOUNDARY SURVEY:
AN ALTA/ACSM LAND TITLE SURVEY WAS COMPLETED BY CHW AND DATED JULY
1. 2016.

#### 5. UTILITIES:

- -POTABLE WATER AND FIRE SERVICE WILL BE PROVIDED BY CITY OF ALACHUA.
- -SANITARY SEWER SERVICE WILL BE PROVIDED BY CITY OF ALACHUA.

  -ELECTRIC SERVICE WILL BE PROVIDED BY CITY OF ALACHUA
- -RECLAIM WATER SERVICE IS NOT AVAILABLE TO THE PROJECT SITE AT THE CURRENT TIME.
- A NEW ON-SITE STORM SEWER COLLECTION SYSTEM WILL BE CONSTRUCTED AND CONNECT TO AN EXISTING OFF-SITE STORM SEWER COLLECTION SYSTEM WHICH DISCHARGES TO AN EXISTING MASTER STORMWATER MANAGEMENT FACILITY. THE FACILITY MEETS CITY OF ALACHUA AND SRWMD DESIGN CRITERIA.
- 7. NATURAL FEATURES: TOPOGRAPHY WILL SLOPE FROM NORTH TO SOUTH WITH MODERATE SLOPES. THERE ARE NO OTHER NATURAL SITE FEATURES.
- 8. ZONING/LAND USE INFORMATION AND COMPLIANCE:

LIGHT AND WAREHOUSE INDUSTRIAL (ILW) ZONING DISTRICT DESIGNATION.

THE PROPOSED FACILITIES ARE CONSISTENT WITH THE LIGHT INDUSTRIAL DEFINITION PROVIDED IN ARTICLE 4 OF THE LDF. PER ARTICLE 4 OF THE LDR, RESEARCH AND DEVELOPMENT IS A PERMITTED USE WITHIN THE LIGHT AND WAREHOUSE INDUSTRIAL ZONING DISTRICT.

PER ARTICLE 6 OF THE LDRS, THE PROPOSED SITE IS CONSISTENT WITH ALL APPLICABLE DEVELOPMENT STANDARDS. COMPLIANCE WITH REQUIRED PARKING CAN BE FOUND IN NOTE 3 ON THIS SHEET. THERE ARE NO EXISTING TREES ON SITE AND THE PROPOSED LANDSCAPING FULFILLS GENERAL SITE, MITIGATION, AND BUFFER REQUIREMENTS. THE PROPOSED STORMWATER CONVEYANCE SYSTEM AND EROSION PROTECTION PROPOSED FULFILL ENVIRONMENTAL PROTECTION STANDARDS THROUGH THE USE OF BMPS.

- 9. CONCURRENCY IMPACT ANALYSIS: SUBMITTED UNDER SEPARATE COVER
- 10 LEGAL DESCRIPTION:

A PARCEL OF LAND SITUATED IN SECTIONS 14 & 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST, ALACHUA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHWEST CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 3214, PAGE 1296 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, SAID POINT BEING ON THE SOUTH RIGHT OF WAY LINE OF RACHAEL BOULEVARD, A PUBLIC RIGHT OF WAY; THENCE SOUTH 1'36'16" EAST ALONG THE WEST LINE OF SAID LANDS, A DISTANCE OF 180.12 FEET TO THE SOUTHWEST CORNER OF SAID LANDS, SAID POINT ALSO BEING THE NORTHWEST CORER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 3981, PAGE 2099 OF SAID PUBLIC RECORDS; THENCE SOUTH 1°36′16″ EAST, ALONG THE WEST LINE OF SAID LANDS, A DISTANCE OF 222.73 FEET TO THE SOUTHWEST CORNER OF SAID LANDS, ALSO BEING ON THE NORTH LINE OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 2355, PAGE 2784 OF SAID PUBLIC RECORDS; THENCE SOUTH 89"14'17" EAST ALONG SAID NORTH LINE, A DISTANCE OF 163.13 FEET TO THE NORTHWEST CORNER OF SAID LANDS: THENCE SOUTH 01'45'46" EAST, ALONG THE WEST LINE OF SAID LANDS, A DISTANCE OF 138.02 FEET T THE SOUTHWEST CORNER OF SAID LANDS; THENCE CONTINUE SOUTH 01'45'46" EAST, A DISTANCE OF 14.47 FEET TO THE NORTH RIGHT-OF-WAY LINE OF NANO COURT, BEING A PUBLIC RIGHT-OF-WAY; THENCE NORTH 57'02'36" WEST, ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 241.10 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHWESTERLY, HAVING A RADIUS OF 330.00 FEET AND BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 69'36'26" WEST, 143.57 FEET; THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 25'07'42", AN ARC DISTANCE OF 144.73 FEET TO A POINT OF REVERSE CURVATURE WITH A CURVE CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 35.00 FEET AND BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 4012'00" WEST, 46.81 FEET; THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 83'56'33", AN ARC DISTANCE OF 51.28 FEET TO THE END OF SAID CURVE, SAID POINT LYING ON THE EAST RIGHT OF WAY LINE OF NW 129TH WAY, BEING A PUBLIC RIGHT OF WAY; THENCE NORTH 01°46'16" EAST, ALONG SAID EAST RIGHT-OF-WAY, A DISTANCE OF 340.43 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 35.00 FEET AND BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 4917'22" EAST, 51.62 FEET; THENCE NORTHEASTERLY, ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 95°02'12", AN ARC DISTANCE OF 58.05 FEET TO THE END OF SAID CURVE, SAID POINT LYING ON THE SOUTH RIGHT-OF-WAY LINE OF AFOREMENTIONED RACHAEL BOULEVARD, BEING A PUBLIC RIGHT-OF-WAY; THENCE SOUTH 83"10'46" EAST, ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 182.66 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHERLY, HAVING A RADIUS OF 1943.08 FEET AND BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 87'35'01" EAST, 283.47 FEET; THENCE EASTERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 08'21'58", AN ARC DISTANCE OF 283.72 FEET TO THE END OF SAID CURVE AND THE POINT OF BEGINNING.

#### SURVEYOR OF RECORD

MICHAEL L. HARBERT, P.L.S. CHW

132 NW 76TH DRIVE GAINESVILLE, FL 32607 (352) 331-1976

#### **LANDSCAPE ARCHITECT**

CAELI M. TOLAR, L.A. CHW 132 NW 76th DRIVE GAINESVILLE, FL 32607 (352) 331-1976

#### **DEVELOPER**

MATT CASON, VICE PRESIDENT CONCEPT DEVELOPMENT, INC 3917 NW 97TH BOULEVARD GAINESVILLE, FL. 32606 (352) 333-3233

#### **ENGINEER OF RECORD**

(352) 331-1976

DANIEL H. YOUNG, P.E. CHW 132 NW 76th DRIVE GAINESVILLE, FL 32607

#### **PHOTOMETRIC**

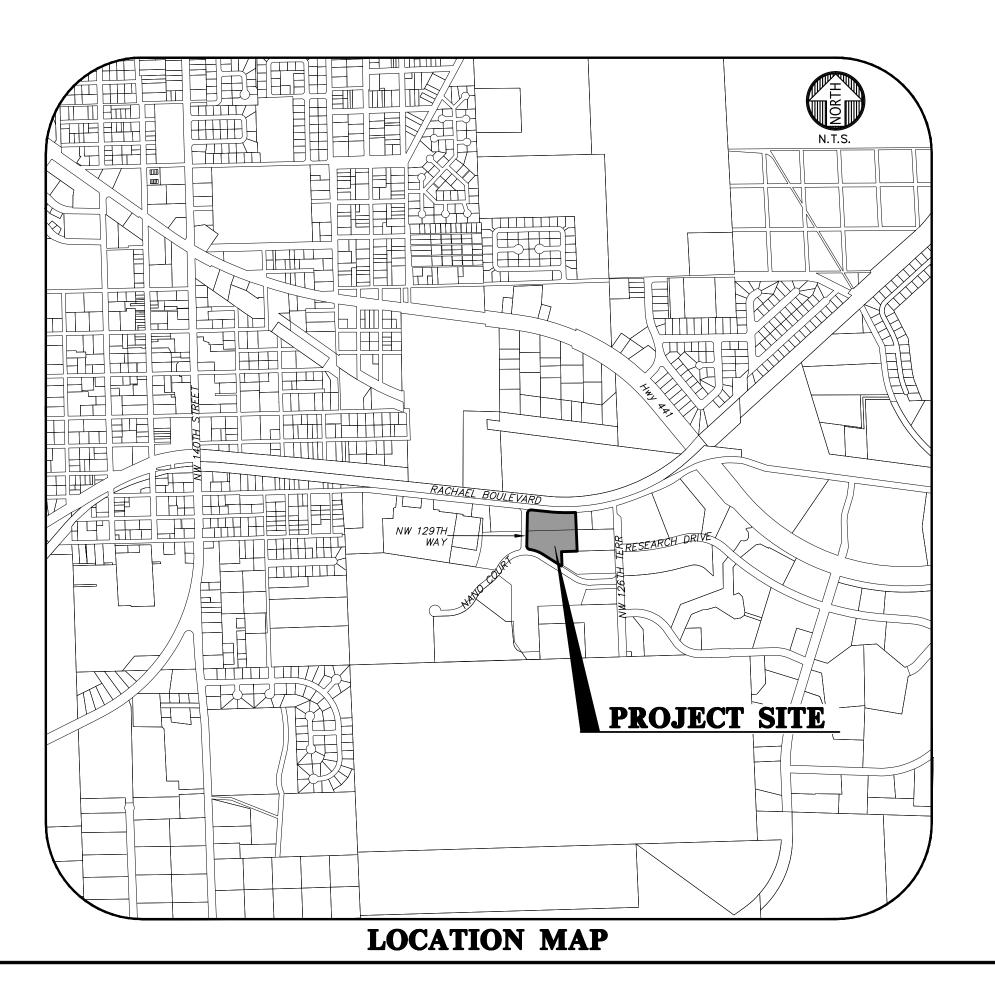
NIX ENGINEERING 2711 NW 6TH STREET, SUITE B GAINESVILLE, FL 32609 (352) 271-9900

#### **PROPERTY OWNER**

ADC DEVELOPMENT & INVESTMENT GROUP, LLC. P.O. BOX 238 LAKE BUTLER, FL. 32054

PROJECT SITE CR 236 N.T.S.
N.W. 156 Ave
CITY OF ALACHUA  Santa Fe
San Feldseo Hammock  N.W. 78 Ave  NE. 53 Ave
N. W. 23 Ave Newnans CR 1474  Newnans Lake  University Ave Up
S.W. 24 Ave  S.W. 24 Ave  Paynes Prairie  S.E. Hawthorn
S.W. Wacahoota Ra
Levy Lake  Lochloosa  Lake  Lochloosa  Lake
Orange Ca Lake
ALACHUA COUNTY

**VICINITY MAP** 



SHEET INDEX		
SHEET NUMBER	DESCRIPTION	
C0.00	COVER SHEET AND INDEX	
1 OF 1	BOUNDARY AND TOPOGRAPHIC SURVEY	
C0.10	GENERAL NOTES	
C0.11	LEGEND	
C0.20	STORMWATER POLLUTION PREVENTION NOTES	
C0.21	STORMWATER POLLUTION PREVENTION PLAN AND DETAILS	
C0.30	DEMOLITION SITE PLAN	
C1.00	MASTER SITE PLAN	
C1.10	DETAILED HORIZONTAL CONTROL AND SITE PLAN	
C1.20	ACCESSIBILITY SITE PLAN AND DETAILS	
C2.10	DETAILED GRADING AND DRAINAGE PLAN	
C2.30 - C2.31	CONSTRUCTION DETAILS	
C3.10	DETAILED UTILITY PLAN	
A-101 - A-102	ARCHITECTURAL FLOOR PLANS	
A-301 - A-302 LS-1	ARCHITECTURAL EXTERIOR ELEVATIONS  LANDSCAPE NOTES & DETAILS	
LS-2 - LS-3	LANDSCAPE PLAN	
IR-1	IRRIGATION PLAN	
IR-2 - IR-3	IRRIGATION DETAILS & SPECIFICATIONS	
E-1	SITE PHOTOMETRIC PLAN	
E101	ELECTRICAL SITE PLAN	



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T.F. COWART

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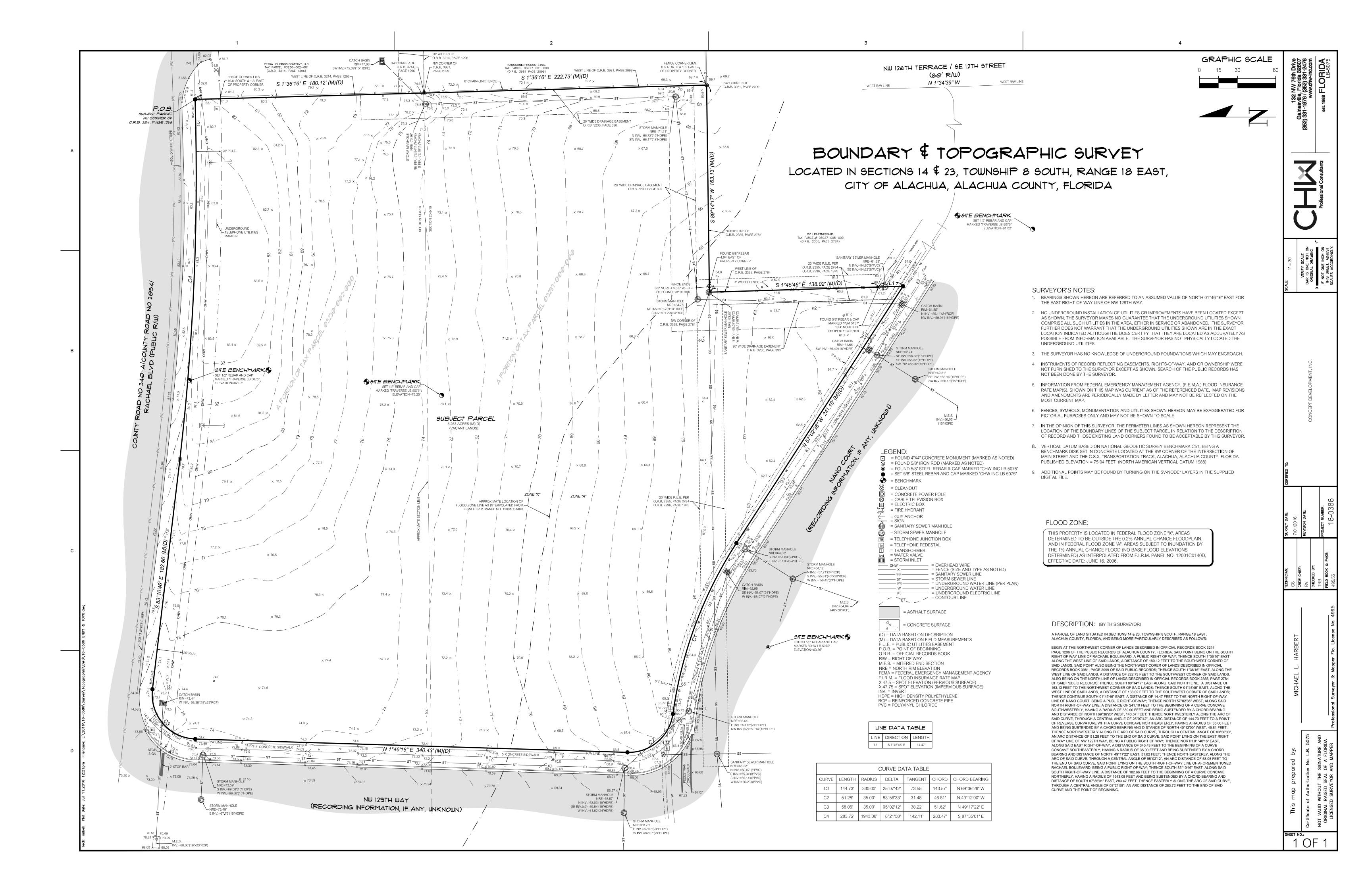
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2. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE RESPECTIVE UTILITY COMPANIES SHALL RELOCATE ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE

3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE APPROPRIATE UTILITY COMPANIES IN ORDER TO ALLOW MARKING OF THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF CONSTRUCTION BY CALLING THE FLORIDA SUNSHINE STATE ONE-CALL CENTER, INC. AT 1-800-432-4770 OR 811. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" 48 HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS. NO CONSTRUCTION ACTIVITY MAY OCCUR UNTIL THE UTILITIES HAVE BEEN PROPERLY MARKED.

4. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF THE PROJECT ENVELOPE SHOWN PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO HAVE THE LOCATIONS OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.

6. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING IURISDICTION OVER THE WORK INCLUDING LANDSCAPING.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY AND/OR MUNICIPALITY INSTRUCTIONS.

9. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED, AND PERMITTED THROUGH LOCAL GOVERNMENTAL AGENCIES AND WATER MANAGEMENT DISTRICT PER CURRENT REGULATIONS AT THE SOLE COST OF THE CONTRACTOR.

11. CONTRACTOR TO REVIEW GEOTECHNICAL REPORT AND BORINGS PRIOR TO BIDDING THE PROJECT AND FOLLOW OUTLINED CONSTRUCTION

12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SERVICES OF AN APPROVED TESTING LABORATORY AND/OR SOILS ENGINEER, APPLICABLE REGULATORY AGENCIES, AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS OR SPECIFICATIONS. CONTRACTOR TO VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE TESTING LABORATORY AND/OR SOILS ENGINEER MUST SUBMIT TO THE OWNER'S ENGINEER CERTIFICATIONS STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

13. INSTALL SILT FENCE PRIOR TO SITE DEMOLITION OR NEW SITE CONSTRUCTION. INSTALL SILT FENCE PER FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL AND PROVIDE TOE-IN. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE PROJECT SILT FENCE SHALL BE INSPECTED DAILY AND ANY CORRECTIVE MEASURES SHALL BE COMPLETED WITHIN 24 HOURS.

14. ALL TREE BARRICADES AND SILT FENCING SHALL BE INSTALLED AND INSPECTED BY ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.

15. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE GEOTECHNICAL

16. ALL DELETERIOUS MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED AND REMOVED FROM THE SITE. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE AREAS.

17. CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SODDED, SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, AS DIRECTED BY THESE PLANS, IMMEDIATELY

18. WORK BEING PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON THE SITE BY OTHER CONTRACTORS AND/OR UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

19. ALL PAVEMENT DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.

20. THE GOVERNING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED FY 2016-2017, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JULY 2016, AS AMENDED BY CONTRACT DOCUMENTS. ALL MATERIALS AND METHODS SHALL MEET FDOT SPECIFICATIONS AND SHALL BE PRODUCED OR **OBTAINED FROM AN FDOT APPROVED SOURCE.** 

21. ALL NEW TRAFFIC CONTROL DEVICES (SIGNS AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL **DEVICES (MUTCD) AND FDOT STANDARDS.** 

22. ALL STRIPING WITHIN THE FDOT RIGHT OF WAY SHALL BE PLACED FIRST AS TEMPORARY STRIPING FOLLOWED BY APPLICATION OF THERMOPLASTIC STRIPING 30 DAYS LATER.

23. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER BENCHMARKS ON-SITE. EXISTING BENCH MARKS SCHEDULED FOR REMOVAL SHALL BE RELOCATED AT CONTRACTORS EXPENSE AND RE-ESTABLISHED BY A LICENSED SURVEYOR.

24. ALL HANDICAP RAMPS SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE AND AMERICANS WITH DISABILITIES ACT.

25. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH

THE ALACHUA COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO INITIATION OF WORK WITHIN RACHEAL BLVD RIGHT OF WAY. 26. A PRE-CONSTRUCTION CONFERENCE SHALL BE REQUIRED. THE CONTRACTOR, ENGINEER OF RECORD, AND THE OWNER SHALL MEET WITH

THE CITY OF ALACHUA PRIOR TO INITIATION OF THE SITE CONSTRUCTION.

27. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD. 28. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NEEDED THROUGHOUT ALL CONSTRUCTION ACTIVITIES COVERED BY THESE PLANS.

DEWATERING SHALL BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, 2016 EDITION, SECTION 455-28. 29. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND COST OF ALL CLEARING AND GRUBBING AND ALL WORK OF REMOVAL,

DISPOSAL, AND REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS WHERE SHOWN IN THE PLANS, OR ORDERED BY THE ENGINEER TO BE REMOVED, OR WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS, IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS (THIS INCLUDES BUT IS NOT LIMITED TO PROPOSED PIPING, STRUCTURES, UTILITIES, PAVING, CURBING, ETC.).

30. AN AS-BUILT SURVEY MAY BE REQUIRED BY REGULATORY AGENCIES. CONTRACTOR TO COORDINATE WITH PROJECT OWNER FOR COMPLETION OF AS-BUILT SURVEYS PRIOR TO PROJECT / PERMIT CLOSE-OUT.

#### **DEMOLITION GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLITION MATERIALS IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR SHALL SALVAGE TO THE OWNER ANY ITEM AS DETERMINED BY THE OWNER. ONCE DEMOLISHED, MATERIAL SHALL BE DISPOSED OF PROPERLY AND

2. REMOVE ALL IMPROVEMENTS DEFINED ON THE DEMOLITION PLAN. SALVAGE ITEMS TO OWNER AS DEFINED BY THE OWNER'S REPRESENTATIVE AND CONSTRUCTION DOCUMENT SPECIFICATIONS.

3. EXISTING PAVEMENT AND SIDEWALK EDGES THAT BORDER NEW CONSTRUCTION OR DEMOLITION ARE TO BE SAW-CUT TO PROVIDE A SMOOTH

4. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED.

5. ROOTS LARGER THAN 1 INCH IN DIAMETER ON TREES TO BE PRESERVED THAT ARE ENCOUNTERED DURING CONSTRUCTION MUST BE CUT CLEANLY AND COVERED OVER WITH SOIL BY THE END OF THE WORKING DAY.

6. ALL ASPHALT AND LIMEROCK WILL BE COMPLETELY REMOVED FROM AREAS THAT WILL BE LANDSCAPED. IN PARTICULAR, AREAS WHERE ASPHALT WILL BE REMOVED MUST HAVE THE TOP HARD SURFACE, LIMEROCK, AND COMPACTED SOIL REMOVED. REPLACEMENT SOIL SHALL BE CLEAN DEEP FILL OF PH 5.5 - 6.5. THE DEPTH OF UNCOMPACTED SOIL PRIOR TO PLANTING MUST BE AT LEAST 3 FEET TO ACCOMMODATE FUTURE TREE ROOT GROWTH. NO LIMEROCK, LARGE STONES, OR OTHER CONSTRUCTION DEBRIS CAN REMAIN IN AREAS TO BE LANDSCAPED.

#### PAVING, GRADING, AND DRAINAGE GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL PRACTICES DURING CONSTRUCTION TO MINIMIZE ON-SITE EROSION/SEDIMENTATION AND TO PROTECT AGAINST DAMAGE TO OFF SITE PROPERTY. THE FOLLOWING PRACTICES SHALL BE EMPLOYED:

A. EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FDOT INDEX NUMBER 102 TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. A SILT BARRIER SHALL SPECIFICALLY BE REQUIRED. CONSTRUCTED. AND MAINTAINED AS INDICATED ON THIS SHEET. TEMPORARY SEED AND MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. SOD SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 5 (FT) HORIZONTAL TO 1 (FT) VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE FROSION/SEDIMENTATION PROTECTION AT THE END OF EACH WORKING DAY.

NOTE: EROSION/SEDIMENTATION CONTROL SHALL BE PLACED PRIOR TO SITE EXCAVATION AND SHALL REMAIN IN PLACE UNTIL SITE VEGETATION AND LANDSCAPING IS COMPLETE.

B. ALL INLET STRUCTURES AND PIPE SHALL BE PROTECTED FROM SILTATION BY CONSTRUCTING INLET PROTECTION AS DEFINED BY THESE PLANS OR IN THE FDOT STANDARDS. IF SILTATION OCCURS, THE CONTRACTOR IS RESPONSIBLE TO REMOVE SILTATION AS PART OF THE BASE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. EXCAVATED STORMWATER FACILITIES SHALL BE CONSTRUCTED AS PART OF THE INITIAL CONSTRUCTION. THE FACILITIES SHALL BE ROUGH GRADED TO THE DESIGN ELEVATIONS. AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED. THE FACILITIES BOTTOM SHALL BE OVER-EXCAVATED BY SIX INCHES, SCARIFIED, BACKFILLED WITH ARCHER FILL (HAVING NO MORE THAN 5% PASSING NO. 200 SIEVE), AND GRADED TO FINAL DESIGN GRADES. EXCESS AND UNSUITABLE SOILS SHALL BE REMOVED FROM THE BASIN (REMOVE ALL ACCUMULATED SILTS, CLAYS, ORGANIC, AND DEBRIS). FINALLY, SCARIFY AND RAKE BOTTOM AND VEGETATE.

D. PERMANENT VEGETATIVE STABILIZATION SHALL BE APPLIED ON FINE GRADED SITES AS SOON AS PRACTICAL. TEMPORARY SEEDING SHOULD BE EMPLOYED TO PREVENT EXPOSURE OF BARREN SOILS UNTIL PERMANENT VEGETATION CAN BE APPLIED.

E. ALL SLOPES 1:3 OR STEEPER REQUIRE LAPPED OR PEGGED SOD.

RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.

F. EROSION, SEDIMENT AND TURBIDITY CONTROL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE DELINEATED MEASURES ARE THE MINIMUM REQUIRED, WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATION.

G. ALL SYNTHETIC BALES, SILT FENCE, AND OTHER EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

2. THE CONTRACTOR SHALL MAINTAIN IN HIS POSSESSION A COPY OF THE WATER MANAGEMENT DISTRICT CONSTRUCTION PERMIT. HE SHALL BE

3. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

4. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.

5. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE **ENGINEER OF RECORD DURING SITE INSPECTIONS.** 

6. GENERAL CONTRACTOR TO CONTACT ENGINEER OF RECORD AND THE OWNER REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO BACKFILLING TRENCHES FOR FIELD INSPECTION AND PRIOR TO LAYING ASPHALT FOR FIELD INSPECTION.

7. CONTRACTOR IS TO SUBMIT FDOT APPROVED ASPHALT DESIGN MIXES TO THE OWNER'S REPRESENTATIVE AND ENGINEER OF RECORD BEFORE ANY WORK IS TO COMMENCE ON PROJECT. THE MIXTURE AT THE PLANT OR ON THE ROAD SHALL NOT EXCEED 335 DEGREES. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND PROVIDE TEMPERATURE READINGS PRIOR TO LAYING ASPHALT.

8. AS DETERMINED NECESSARY AND DIRECTED BY CITY OF ALACHUA PUBLIC SERVICES DEPARTMENT OR ENGINEER OF RECORD, THE CONTRACTOR SHALL UNDERCUT ALL UNSUITABLE MATERIAL 24 INCHES BELOW THE BOTTOM OF ANY PROPOSED LIMEROCK BASE. AND SHALL BACKFILL WITH FILL MATERIAL MEETING FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE FDOT INDEX NO. 500 AND 505.

9. PROVIDE LEVEL PLATFORM IN FRONT OF ALL EGRESS DOORS. THE FLOOR SURFACE ON BOTH SIDES OF A DOOR SHALL BE AT THE SAME ELEVATION. THE FLOOR SURFACE OR LANDING ON EACH SIDE OF THE DOOR SHALL EXTEND FROM THE DOOR IN THE CLOSED POSITION A DISTANCE EQUAL TO THE DOOR WIDTH AND SHALL COMPLY WITH SECTION 4.13.6 MANEUVERING CLEARANCES AT DOORS OF THE FLORIDA ACCESSIBILITY CODE FOR BUILDING

10. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. CURB RAMPS ARE NOT REQUIRED TO HAVE LANDINGS. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:

A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.

B. ALL LANDINGS ON RAMPS SHALL BE NOT LESS THAN 60" CLEAR, AND THE BOTTOM OF EACH RAMP SHALL HAVE NOT LESS THAN 72" OF STRAIGHT AND LEVEL CLEARANCE.

C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60"X60". IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72" THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL BE SHOWN ON THE SITE PLAN.

11. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN AREAS DESIGNATED BY THE OWNER.

12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS AS NOTED IN NOTE #14 UNDER SITE GENERAL NOTES.

13. ALL CONCRETE USED SHALL BE 2,500 PSI MINIMUM.

14. ALL WELLS, CLEANOUTS, MANHOLE TOPS, PULL BOX COVERS AND OTHER UTILITY APPURTENANCES IN THE AREA OF REDEVELOPMENT SHALL BE PROTECTED AND TOPS ADJUSTED TO MATCH PROPOSED GRADES.

15. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS ANY EXISTING PAVEMENT. 16. SOD SHALL BE PLACED AROUND ALL STRUCTURES AS DIRECTED BY THE FDOT INDEX NO. 281. ALL OTHER DISTURBED AREAS SHALL BE SEEDED

AND MULCHED.

GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.

17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH

18. ALL CONCRETE STRUCTURES SHALL HAVE ALL EXPOSED EDGES CHAMFERED 3/4" AND CLASS I SURFACE FINISH. 19. ALL HDPE FITTINGS AND CONNECTORS SHALL BE SOIL TIGHT. SEE SPECIFICATIONS FOR MORE INFORMATION.

#### WATER AND WASTEWATER GENERAL NOTES

1. MATERIALS AND CONSTRUCTION METHODS FOR WATER AND WASTEWATER SYSTEMS SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY CODES, PLANS, AND SPECIFICATIONS FOR CONSTRUCTION, LATEST REVISION THEREOF AND SUPPLEMENTAL SPECIFICATIONS THERETO. APPROVAL AND CONSTRUCTION OF ALL UTILITY EXTENSIONS AND CONNECTIONS MUST BE COORDINATED THROUGH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.

3. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY UTILITY FIELD LOCATION AND RELOCATION AS REQUIRED.

4. THE COST OF ALL TESTING OF COMPACTION AND OTHER REQUIRED TESTS SHALL BE PAID BY THE CONTRACTOR AND MADE AVAILABLE TO THE ENGINEER OF RECORD DURING SITE INSPECTIONS.

5. THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF PARTIES US THE CONTRACTOR'S RESPONSIBILITY.

6. ALL FORCE MAINS SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. COORDINATION AND NOTIFICATION OF PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

7. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER AND OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.

8. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN SIX FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND GRAVITY OR PRESSURE WASTEWATER MAINS. WASTEWATER FORCE MAINS. AND RECLAIMED WATER MAINS NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. A HORIZONTAL SEPARATION OF TEN FEET PREFERRED, BUT NO LESS THAN THREE FEET, SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND VACUUM WASTEWATER MAINS. A HORIZONTAL SEPARATION OF THREE FEET SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORM SEWERS, STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS REGULATED UNDER PART III OF CHAPTER 62-610,

9. WHEN POTABLE WATER MAINS CROSS OTHER PIPES, THE TWO PIPES SHALL HAVE JOINTS A MINIMUM OF SIX FEET FROM THE CROSSING. WHEN POTABLE WATER MAINS CROSS UNDERNEATH OTHER PIPES. THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE PRESSURE WASTEWATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, THE MINIMUM VERTICAL SEPARATION IS TWELVE INCHES. WHEN POTABLE WATER MAINS CROSS ABOVE GRAVITY AND VACUUM WASTEWATER MAINS, STORM SEWERS, AND STORMWATER FORCE MAINS. THE PREFERRED VERTICAL SEPARATION IS TWELVE INCHES AND THE THE MINIMUM VERTICAL SEPARATION IS SIX INCHES.

10. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.

11. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS IN ACCORDANCE WITH AWWA STANDARDS.

12. ALL PVC WATER SERVICE LINES SHALL BE SCH 40 PVC.

13. THE SITE WORK CONTRACTOR SHALL ENGAGE THE SERVICES OF A LICENSED UNDERGROUND UTILITY AND EXCAVATION CONSTRACTOR TO INSTALL THE NEW WATER SERVICE LINE.

14. ALL SANITARY SEWER SERVICE LATERALS SHALL BE 4" PVC SDR 35 OR 6" PVC SDR 35 WITH A CLEAN-OUT LOCATED PER THE PLANS. MINIMUM SLOPE FOR 4" LATERALS SHALL BE 1.0% AND A MINIMUM CLEANOUT SPACING OF 75 FEET ON-CENTER AND MINIMUM SLOPE FOR 6" LATERALS SHALL BE 0.6% AND A MINIMUM CLEANOUT SPACING OF 100 FEET ON-CENTER.

15. PUBLIC UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED FOR ALL UTILITIES SHOWN HEREON BY METES AND BOUND DESCRIPTION AND IN ACCORDANCE WITH THE REGULATORY AGENCY DEPARTMENT FOR PUBLIC UTILITIES.

#### MAINTENANCE OF TRAFFIC (MOT) NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR CREATING A MAINTENANCE OF TRAFFIC (MOT) PLAN FOR CONSTRUCTION ACTIVITY THAT OCCURS WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO SIDEWALK WORK AND ACTIVITIES THAT REQUIRE A LANE (OR ROAD) CLOSURE, SUCH AS CONNECTION TO SEWER MANHOLES AND WATER MAINS. THE MOT PLAN MUST BE CREATED BY A REGISTERED PROFESSIONAL ENGINEER WHO IS CERTIFIED TO DO SO BY THE FDOT MOT CERTIFICATION TRAINING. THE MOT PLAN MUST ALSO BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS AND FDOT STANDARD SPECIFICATIONS REQUIREMENTS AND MUST BE REVIEWED AND APPROVED BY THE CITY OF ALACHUA.

2. THE CONTRACTOR SHALL SUBMIT THE MOT TO THE APPROPRIATE REGULATORY AUTHORITY PRIOR TO WORK REQUIRING THE MOT FOR APPROVAL. NO WORK IN THE ROW SHALL OCCUR UNTIL THE MOT IS APPROVED.

3. CONTRACTOR SHALL SUBMIT TO THE CITY OF ALACHUA FOR REVIEW AND APPROVAL A TRAFFIC CONTROL PLAN THAT SHALL DETAIL PROCEDURES AND PROTECTIVE MEASURES PROPOSED TO PROVIDE PROTECTION AND CONTROL OF TRAFFIC AFFECTED. THE TRAFFIC PLAN SHALL INCLUDE PROPOSED LOCATIONS AND TIME DURATIONS OF THE FOLLOWING ITEMS AS APPLICABLE

A. PEDESTRIAN AND PUBLIC VEHICULAR TRAFFIC ROUTING B. LANE AND SIDEWALK CLOSURES, RESTRICTIONS, AND REDUCTIONS ANTICIPATED DUE TO CONSTRUCTION OPERATIONS. DESCRIBE PROPOSED DATES, HOURS, AND DURATION OF CLOSURE(S) AND SHOW PEDESTRIAN/VEHICULAR ROUTING AND MANAGEMENT. INDICATE TRAFFIC CONTROL DEVICES TO CONTROL MOVEMENT AROUND THE CLOSURE TO INCLUDE BARRICADE DETAILS.

C. ACCESS TO BUILDING IMMEDIATELY ADIACENT TO WORKSITE. D. DRIVEWAYS BLOCKED BY CONSTRUCTION OPERATIONS.

4. CONTRACTOR SHALL NOTIFY IN WRITING BOTH THE CITY OF ALACHUA PUBLIC SERVICES AND THE ALACHUA COUNTY POLICE DEPARTMENT NO LESS THAN 7 DAYS PRIOR TO SUCH CLOSURES OR WHENEVER ROADS ARE IMPASSABLE.

5. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF ALACHUA PUBLIC SERVICES OF ANY VEHICULAR OR PEDESTRIAN SAFETY OR EFFICIENCY PROBLEMS INUCURRED AS A REUSLT OF THE WORK.

ALACI ALACI ALACI ALACI ALACI 유유유유 710 710 710 710 710 

**ABBREVIATIONS** SYMBOLS NORTH FEET (WHEN USED WITH LENGTHS) **DEGREES** NORTHING - EASTING NOT APPLICABLE MINUTES (WHEN USED WITH ANGLES) N/A NAVD NORTH AMERICAN VERTICAL DATUM OF 1988 SECONDS NGVD NATIONAL GEODETIC VERTICAL DATUM OF PERCENT NUMBER NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AASHTO ASSOCIATION OF STATE HIGHWAY AND NOT TO SCALE TRANSPORTATION OFFICIALS **ACRES** AMERICAN WITH DISABILITIES ACT ON CENTER AMERICAN NATIONAL STANDARDS ANSI OVERHEAD WIRE ARCH ARCHITECT OFFICIAL RECORDS BOOK OSHA OCCUPATIONAL SAFETY AND HEALTH ARV AIR RELEASE VALVE ASTM AMERICAN SOCIETY FOR TESTING AND **ADMINISTRATION** MATERIALS AWWA AMERICAN WATER WORKS ASSOCIATION PAVT PAVEMENT POINT OF CURVATURE BACK OF CURB POINT OF COMPOUND CURVE PERFORATED BACKFLOW PREVENTER BLDG BUILDING PROPOSED BENCHMARK POINT OF TANGENCY BEST MANAGEMENT PRACTICE POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION BACK OF CURB BEGIN VERTICAL CURVE STATION **BVCE** BEGIN VERTICAL CURVE ELEVATION BW **BOTTOM OF WALL** RADIUS REINFORCED CONCRETE PIPE BSL BUILDING SETBACK LINE RAISED REFLECTIVE PAVEMENT MARKER REDUCED PRESSURE ZONE CATV CABLE TELEVISION RIGHT CURB INLET RECLAIMED WATER MAIN CAST IRON PIPE R/W RIGHT-OF-WAY CMP CORRUGATED METAL PIPE CO CLEANOUT CONC CONCRETE SOUTH SANITARY COORD COORDINATE CR COUNTY ROAD SEASONAL HIGH WATER ELEVATION C/O CLEANOUT SLOPE SUPERPAVE STATE ROAD DIAMETER AT BREAST HEIGHT SANITARY SEWER DRAINAGE EASEMENT STORM DEG DEGREE STA STATION DIA STD STANDARD DIAMETER DUCTILE IRON PIPE DRAWING TEMPORARY CONSTRUCTION EASEMENT **TEMPORARY** TOB TOP OF BANK RATE OF ELEVATION **TELEVISION** EAST EACH TOP OF WALL TYPICAL ELEVATION ELEV **ELEVATION** EOP EDGE OF PAVEMENT UNITED STATES FOUNDRY EOR ENGINEER OF RECORD ERCP ELLIPTICAL REINFORCED CONCRETE PIPE UNITED STATES GEOLOGICAL SURVEY USGS **ESMT EASEMENT** UTIL UTILITY END VERTICAL CURVE STATION **EVCS** END VERTICAL CURVE ELEVATION **EVCE** VERTICAL **EXISTING** VERTICAL CURVE VCP VITRIFIED CLAY PIPE FLORIDA ADMINISTRATIVE CODE FLORIDA BEARING RATIO FLORIDA DEPARTMENT OF ENVIRONMENTAL FLORIDA DEPARTMENT OF TRANSPORTATION WATER MAIN WASTEWATER FIRE HYDRANT WWF WELDED WIRE FABRIC FLORIDA HIGHWAY ADMINISTRATION FIG FM FORCE MAIN FOC FACE OF CURB FLORIDA STATUTES FEET GALV GALVANIZED GM GAS MAIN GATE VALVE HIGH DENSITY POLYETHYLENE HIGH POINT IDENTIFICATION INVERT INV EL INVERT ELEVATION IRON PIPE VERTICAL CURVE RATE OF CHANGE

#### **SIGNAGE**

SIGNS ARE PER FDOT SPECIFICATIONS OR PER MUTCD. SIGN POSTS AND INSTALLATION SHALL BE PER FDOT INDEX NO. 11860. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO.



FTP-20-06 (12" X 18") PER FDOT INDEX NO. 17355



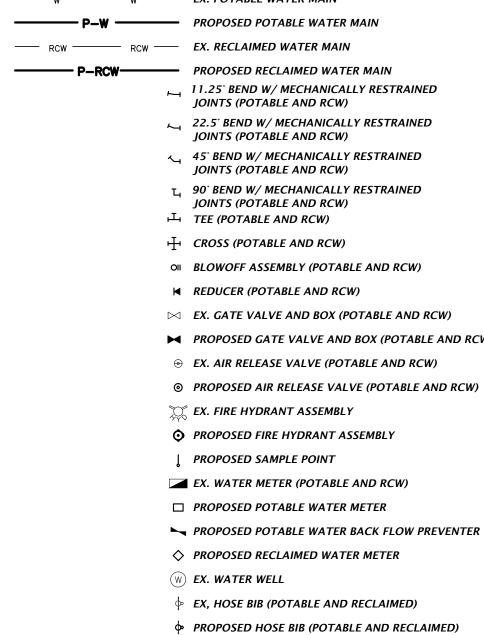
R1-1 "STOP" - SEE PLANS FOR SIZE

#### SITE INFORMATION

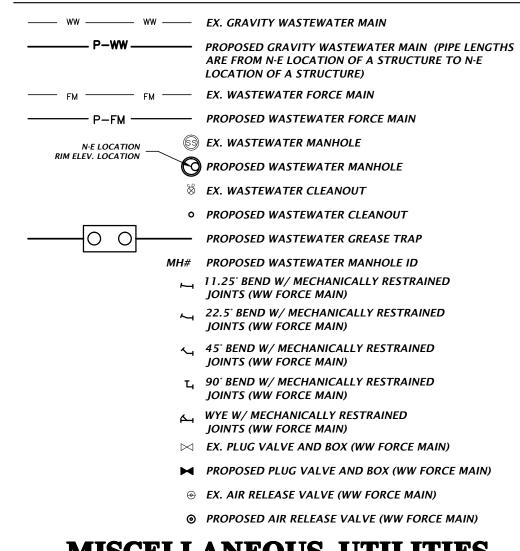
	EX. PROPERTY LINE
· ·	LANDSCAPE BUFFER LINE
	BUILDING SETBACK LINE
··	WETLAND LIMITS LINE
· ·	WETLAND SETBACK LINE
	CENTER LINE
	EASEMENT LINE
	RIGHT-OF-WAY LINE
—— SF ——— SF ——	SILT FENCE LINE
— тв — тв —	TREE BARRICADE LINE
	EX. STRUCTURE OR BUILDING
	PROPOSED BUILDING
	PROPOSED ASPHALTIC PAVEMENT
· 'A. 'A''.	PROPOSED CONCRETE PAVEMENT
00000000 00000000 0000000	PROPOSED DETECTABLE WARNING SURFACE
<b>→</b>	DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 17346
	WATERSHED DIVIDE
	EX. ELEVATION CONTOUR
99	PROPOSED CONTOUR
· ·	EX. SPOT ELEVATION
93.23	PROPOSED SPOT ELEVATION
n	DIRECTION OF SURFACE DRAINAGE FLOW
	PROPOSED SWALE LINE
x x	EX. FENCE
<b>-</b> \cdots	PROPOSED FENCE
12" PINE	EX. TREE (SIZE & TYPE)
1234	EX. TREE (TREE ID)
12" PINE	EX. TREE TO BE REMOVED (SIZE & TYPE)
1234	EX. TREE TO BE REMOVED (TREE ID)
•	PROJECT BENCHMARK

STORMWATER	WASTEWATE
THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.	—— WW —— WW —— EX. GRAVITY WASTEWATER M
ST ST EX. GRAVITY STORMWATER MAIN	P-WW PROPOSED GRAVITY WASTEW.
PROPOSED GRAVITY STORMWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF	ARE FROM N-E LOCATION OF A LOCATION OF A STRUCTURE)
A STRUCTURE)	FM FM EX. WASTEWATER FORCE MAI
N-E LOCATION STORMWATER MANHOLE	P-FM PROPOSED WASTEWATER FOR
PROPOSED 48" DIA. STORMWATER MANHOLE PER FDOT INDEX. NO. 200 AND 201	N-E LOCATION S EX. WASTEWATER MANHOLE
TOP/GRATE ELEV. LOCATION PROPOSED CIRCULAR AREA DRAIN	PROPOSED WASTEWATER MAI
N-E LOCATION TOP/GRATE ELEV. LOCATION	<b>⊗</b> EX. WASTEWATER CLEANOUT
PROPOSED SQUARE AREA DRAIN N-E LOCATION	• PROPOSED WASTEWATER CLE
PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)	PROPOSED WASTEWATER GRE
N-E LOCATION	MH# PROPOSED WASTEWATER MAI
PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)	⊢ 11.25° BEND W∕ MECHANICALI JOINTS (WW FORCE MAIN)
N-E LOCATION TOP ELEV. LOCATION PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO.	∠ 22.5 BEND W/ MECHANICALL JOINTS (WW FORCE MAIN)
210 (SEE PLANS FOR BOTTOM SPECIFICATION)	45° BEND W/ MECHANICALLY JOINTS (WW FORCE MAIN)
N-E LOCATION TOP ELEV. LOCATION PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)	Ҵ 90° BEND W/ MECHANICALLY I JOINTS (WW FORCE MAIN)
N-E LOCATION TOP ELEV. LOCATION PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 211	டி WYE W/ MECHANICALLY REST. JOINTS (WW FORCE MAIN)
N-E LOCATION TOP ELEV. LOCATION  (SEE PLANS FOR BOTTOM SPECIFICATION)	⋈ EX. PLUG VALVE AND BOX (W
PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 211 (SEE PLANS FOR BOTTOM SPECIFICATION)	► PROPOSED PLUG VALVE AND
N-E LOCATION TOP/CPATE FLEV LOCATION	⊕ EX. AIR RELEASE VALVE (WW I
PROPOSED TYPE 9 CURB INLET TOP PER FDOT INDEX NO. 214 (SEE PLANS FOR BOTTOM SPECIFICATION)	PROPOSED AIR RELEASE VALV
N-E LOCATION TOP/GRATE ELEV. LOCATION  PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND	MISCELLANEOUS U
BOTTOM SPECIFICATION)	THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHER. LOCATIONS, DIMENSION, AND DETAILS.
N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)	P-ATT PROPOSED AT&T LINE
	BC BC EX. BURIED CABLE LINE
TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND	P-BC PROPOSED BURIED CABLE LIN
BOTTOM SPECIFICATION)	BTEL EX. BURIED TELEPHONE LINE
N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL	P-TEL PROPOSED TELEPHONE LINE
GRATE PER FDOT INDEX NO. 233 (SEE PLANS FOR BOTTOM SPECIFICATION)	CATV EX. CABLE TELEVISION LINE
N-E LOCATION TO CONTRACT TO CO	P-TV PROPOSED CABLE/TELEVISION
PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 233 (SEE PLANS FOR BOTTOM	— FO — FO — EX. FIBER OPTIC LINE
SPECIFICATION)	———— UGTEL ———— EX. UNDERGROUND TELEPHO
N-E LOCATION TOP/GRATE ELEV. LOCATION PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT	te EX. TELEPHONE PEDESTAL
INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)	
N.E.I.O.GATION	— CHW — CHW — EX. CHILLED WATER MAIN

## POTABLE AND RECLAIMED



#### **ASTEWATER**



#### ANEOUS UTILITIES ARE DESIGN BY OTHERS AND ARE DEPICTED FOR

. REFER TO PLANS BY OTHERS FOR EXACT PROPOSED AT&T LINE EX. BURIED CABLE LINE PROPOSED BURIED CABLE LINE EX. BURIED TELEPHONE LINE PROPOSED TELEPHONE LINE

> PROPOSED CABLE/TELEVISION LINE EX. FIBER OPTIC LINE EX. UNDERGROUND TELEPHONE LINE EX. TELEPHONE PEDESTAL

EX. TELEVISION/CABLE PEDESTAL — CHW — CHW — EX. CHILLED WATER MAIN PROPOSED CHILLED WATER MAIN FIRE — EX. FIRE MAIN

P-E PROPOSED ELECTRIC LINE

— OHW — OHW — EX. OVERHEAD WIRE LINE

P-LIGHT PROPOSED PRIVATE LIGHTING LINE

— UGE — UGE — EX. UNDERGROUND ELECTRIC LINE

—— EN —— EN EX. ENERGY LINE

PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER P-FIRE PROPOSED FIRE MAIN ---- IRR ----- IRR ---- EX. IRRIGATION LINE PROPOSED FLARED END SECTION PER FDOT INDEX NO. 270

STEAM EX. STEAM LINE P-STEAM PROPOSED STEAM LINE PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT INDEX NO. 272 (SEE PLANS FOR SIZE) P-CLAY PROPOSED CLAY ELECTRIC LINE — E — EX. ELECTRIC LINE

PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 273 (SEE PLANS FOR SIZE) (S-10) PROPOSED STORMWATER STRUCTURE ID TAG

FDOT INDEX NO. 260 (SEE PLANS FOR SIZE)

PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL

GRATE PER FDOT INDEX NO. 234 (SEE PLANS FOR BOTTOM

SPECIFICATION)

(SEE PLANS FOR SIZE)

TOP/GRATE ELEV. LOCATION

PIPE INV. LOCATION —

N-E LOCATION

N-E LOCATION

N-E LOCATION —

INV. ELEV. LOCATION

PIPE INV. ELEV. LOCATION

PIPE INV. ELEV. LOCATION

WATER	⇔ EX. LIGHT
- w w EX. POTABLE WATER MAIN	EX. UTILITY POLE
P-W PROPOSED POTABLE WATER MAIN	© EX. UTILITY POLE
RCW RCW EX. RECLAIMED WATER MAIN	© EX. WOOD POWER POLE
P-RCW PROPOSED RECLAIMED WATER MAIN	→ EX. GUY ANCHOR
	T PROPOSED TRANSFORMER  —— GAS —————————————————————————————————
22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	P-GAS PROPOSED GAS LINE
45" BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	© EX. GAS MARKER
T <sub>I</sub> 90° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)	G EX. GAS MARKER
TEE (POTABLE AND RCW)	
CROSS (POTABLE AND RCW)	
OII BLOWOFF ASSEMBLY (POTABLE AND RCW)	
<b>■</b> REDUCER (POTABLE AND RCW)	
EX. GATE VALVE AND BOX (POTABLE AND RCW)	
► PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)	
<b>⊕</b> EX. AIR RELEASE VALVE (POTABLE AND RCW)	
<ul><li>PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)</li></ul>	
YY FY FIRE HYDRANT ASSEMBLY	

(1) PROPOSED FITTING ID TAG (POTABLE AND RECLAIMED)

1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.

2. SYMBOLS SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. UNLESS NOTED OTHERWISE, SYMBOLS IN THESE PLANS MAY NOT BE REPRESENTATIVE OF SIZE.

132 NW 76th Drive Gainesville, Florida 32607 2) 331-1976 / (352) 331-2476 www.chw-inc.com est. 1988 FLORIDA CA-5075 ALACHUA ALACHUA ALACHUA ALACHUA ALACHUA 유유유유 CITY CITY CITY CITY CITY 

DANIEL H. YOUNG

LENGTH

LINEAR FEET LOW POINT LEFT

MATCH EXISTING MANHOLE

MISCELLANEOUS

DEVICES

LDR

LANDSCAPE ARCHITECT LIMEROCK BEARING RATIO

LAND DEVELOPMENT REGULATION

MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL

FL PE No. 70780

THIS DOCUMENT WAS PREPARED IN ORDER TO ILLUSTRATE COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGE OF STORMWATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE AND IS ORGANIZED TO CORRESPOND TO PART V OF FDEP DOCUMENT NO. 62-621.300(4)(a). FDEP FORM 62-621.300(4)(b) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT.

#### II. SITE DESCRIPTION

ALACHUA COUNTY, FLORIDA

SECTION 14 & 23, TOWNSHIP 8 SOUTH, RANGE 18 EAST SECTION, TOWNSHIP, RANGE:

03230-002-000 & 03297-000-000 COUNTY PARCEL NO.: SW CORNER OF THE INTERSECTION OF RACHEL BLVD AND NW 129TH WAY IN ALACHUA, FLORIDA STREET ADDRESS:

5.236 ACRES PROIECT AREA: SEE COVER SHEET OF CONSTRUCTION DRAWINGS SITE LOCATION MAP:

#### A. NATURE OF CONSTRUCTION ACTIVITY

THE PROPOSED DEVELOPMENT IS THE CONSTRUCTION OF  $\pm 13,300$ S.F. AND 11,750S.F. RESEARCH AND DEVELOPMENT FACILITIES AND ASSOCIATED PAVEMENT FOR DRIVEWAYS AND PARKING, SIDEWALKS, UTILITIES, AND STORMWATER CONVEYANCE TO AN EXISTING MASTER STORMWATER MANAGEMENT FACILITY. THE PROJECT SITE IS LOCATED AT THE SW CORNER OF RACHEL BLVD AND NW 129TH WAY, ALACHUA FLORIDA. THE PROJECT SITE TOTAL AREA IS APPROXIMATELY 5.236 ACRES.

#### B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

- 1. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013, AND
- 2. THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS. 3. IF SUITABLE, THE EXCAVATED SOIL FROM THE PROJECT SITE MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION.
- 4. THE PROJECT AREA SHALL BE CLEARED AND GRUBBED.
- 5. THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.
- 6. THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED) SHALL BE DIVERTED TO THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).
- 7. THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF
- 8. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT
- 9. ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THESE PLANS. TURF ESTABLISHMENT SHALL BE PER FDOT STANDARD SPECIFICATIONS SECTION 570. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

#### C. SITE DEVELOPMENT DATA:

5.26 ACRES TOTAL PROJECT SITE AREA: TOTAL SITE AREA TO BE DISTURBED: 2.59 ACRES TOTAL IMPERVIOUS AREA (AS SHOWN IN CONSTRUCTION DRAWINGS): 1.32 ACRES TOTAL OPEN AREA:

#### D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF ARREDONDO FINE SAND AND MILLHOPPER SAND.

AN EXISTING STORMWATER MANAGEMENT FACILITY WAS DESIGNED TO PROVIDE RATE AND VOLUME CONTROL AND WATER QUALITY TREATMENT OF THE STORMWATER RUNOFF RESULTING FROM THE POST-DEVELOPMENT SITE UNDER 100-YEAR CRITICAL STORM EVENT RAINFALL CONDITIONS.

#### E. SITE MAP

PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) FOR DETAILS.

#### F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY

THE PROJECT SITE IS SERVED BY AN EXISTING MASTER STORMWATER MANAGEMENT FACILITY THAT FULLY RETAINS THE 100-YEAR CRITICAL STORM EVENTS.

#### III. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) PERMIT, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER OUALITY STANDARDS. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAN WHAT IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES. THESE MEASURES MUST BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL AS DIRECTED BY THESE PLANS. THE STORMWATER POLLUTION PREVENTION PLAN (CO.21) AND SECTION IV BELOW PROVIDE DETAILS ON THE SPECIFIC CONTROL MEASURES TO REDUCE STORMWATER POLLUTION.

#### IV. EROSION AND SEDIMENT CONTROLS

#### A. STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (CO.21). TYPE III SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE STORMWATER POLLUTION PREVENTION PLAN (CO.21). STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. AS SPECIFIED IN SECTION II.B. ABOVE, UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SCRAPED CLEAN OF ACCUMULATED SEDIMENT AFTER THE COMPLETION OF CONSTRUCTION. ALL TURF ESTABLISHMENT SHALL BE PERFORMED MEETING THE REQUIREMENTS OF SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

#### **B. STRUCTURE PRACTICES**

AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (CO.21), A STORMWATER CONVEYANCE SYSTEM WILL BE CONSTRUCTED AND WILL CONNECT TO AN EXISTING DRY RETENTION FACILITY AND A STORM PIPE CONVEYANCE SYSTEM. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCING WILL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED ACCORDING TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013 OR PER DETAILS PROVIDED ON SHEET CO.21 UNTIL CONSTRUCTION IS COMPLETE. THE STORM PIPE CONVEYANCE SYSTEM SHALL BE FLUSHED OUT TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT UPON COMPLETION OF CONSTRUCTION.

#### C. DRAINAGE LOCATIONS THAT SERVE AREAS WITH LESS THAN 10 DISTURBED ACRES

AS SPECIFIED IN THE "SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES," SILT FENCE SHALL BE INSTALLED AND INLET/OUTLET PROTECTION SHALL BE INSTALLED PRIOR TO CLEARING AND GRUBBING AND CONSTRUCTION OF THE PERMANENT PAVED AREAS. THE TOTAL CONTRIBUTING DRAINAGE AREA TO THE EXISTING STORMWATER MANAGEMENT SYSTEM IS APPROXIMATELY 5.26 ACRES AND WILL CONSIST OF APPROXIMATELY 2.59 ACRES OF DISTURBED CONSTRUCTION AREA. THEREFORE NO ADDITIONAL SEDIMENT TRAP RASINS ARE NECESSARY TO PROVIDE SEDIMENT STORAGE ON-SITE DURING CONSTRUCTION. AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN (CO.21), THE EXISTING STORMWATER MANAGEMENT SYSTEM WILL PREVENT OFF-SITE EROSION DURING CONSTRUCTION. SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATION, OUTLET LOCATIONS, AND OTHER LOCATIONS AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN, AS REQUIRED. BY COMPLETION OF CONSTRUCTION, THE SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS.

#### D. DRAINAGE LOCATIONS THAT SERVE AREAS WITH MORE THAN 10 DISTURBED ACRES

NOT APPLICABLE, SEE SECTION C, ABOVE.

#### V. STORMWATER MANAGEMENT

#### A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY. THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS, STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY, SMF(S) SIDE SLOPES SHALL BE MAINTAINED TO PREVENT EROSION, AND LANDSCAPING AND GRASS THAT PREVENTS EROSION SHALL BE MAINTAINED. ADDITIONALLY, REMEDIAL ACTIONS SHALL BE TAKEN SHOULD THE SME(S) NOT PERFORM AS DESIGNED.

#### **B. VEGETATED SWALES**

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING. SEE THE STORMWATER POLITION PREVENTION PLAN (CO.21) FOR DETAILS AND LOCATIONS, AS REQUIRED.

#### C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIP RAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS. AS NEEDED.

#### VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

#### A. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER COLLECTION CONTAINERS WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

#### **B. DUST CONTROL**

TO PREVENT OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED BY THE SITE CONTRACTOR. PLEASE SEE THE STORMWATER POLLUTION PREVENTION PLAN (CO.21) FOR DETAILS AND LOCATION(S).

#### C. EXISTING VERSUS PROPOSED POTABLE AND SANITARY SEWER SYSTEMS

THERE ARE EXISTING SANITARY SEWER AND POTABLE WATER SYSTEMS LOCATED ON THE PROJECT SITE. EXTENSION AND UPGRADES ARE PROPOSED. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

#### D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS. HERBICIDES. AND PESTICIDES ON THE PROJECT SITE, WILL BE DIRECTED BY THE LANDSCAPE PLAN AND THE FDOT STANDARD SPECIFICATIONS SECTION 570. TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS. HERBICIDES. AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVER-USE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

#### E. TOXIC MATERIAL

THE CONSTRUCTION SITE WILL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS. IN ADDITION, THE SITE SHALL BE IN COMPLIANCE WITH THE MORE STRINGENT CITY OF ALACHUA HAZARDOUS MATERIALS MANAGEMENT CODE, WHICH ADDRESSES STORAGE AND USE OF TOXIC MATERIALS LESS IN VOLUME THAN THE STATE THRESHOLD REQUIREMENTS.

#### VII. APPROVED STATE AND LOCAL PLANS

VIII. CONSTRUCTION ACTIVITY DISCHARGES

THE CONSTRUCTION DRAWINGS FOR THE PROJECT WERE APPROVED AND PERMITTED BY THE FOLLOWING AGENCIES:

\* CITY OF ALACHUA \* ALACHUA COUNTY

#### \* SRWMD

IN ACCORDANCE WITH THIS PLAN, THERE ARE NO ANTICIPATED DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

#### IX. CHANGES TO THE POLLUTION PREVENTION PLAN

THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGE IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE PERMITTEE RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE PERMITTEE SHALL PROVIDE A RE-CERTIFICATION OF THIS POLLUTION PREVENTION PLAN, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATE, AND KEPT AS ATTACHMENTS TO THE

#### X. ALTERNATIVE PERMIT REQUIREMENTS

NO ALTERNATIVE PERMIT REQUIREMENTS ARE REQUESTED.

#### XL MAINTENANCE

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE. INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE NTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICE AFTER CONSTRUCTION IS COMPLETE. IN ADDITION TO THE TIMES MENTIONED IN THE PREVIOUS SECTIONS. THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE EXISTING STORMWATER MANAGEMENT FACILITY DOES NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SILT FENCING WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE. UPON FINAL COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY BOTH THE CITY AND OWNER. THE OPERATION AND MAINTENANCE ENTITY WILL BE "ADC DEVELOPMENT & INVESTMENT".

#### XII. INSPECTIONS

THE CONTRACTOR SHALL INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR ALL DISTURBED AREAS ON THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. FOR POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE OR AN MS4. A QUALIFIED INSPECTOR (PROVIDED BY THE OPERATOR) SHALL PERFORM THE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS 0.50 INCHES OR GREATER. LOCATIONS WHERE THE SITE IS COMPLETELY CONSTRUCTED AND STABILIZED, SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH. ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM, A COPY OF WHICH IS PROVIDED ON THIS SHEET. MORE SPECIFICALLY, THE INSPECTION SHALL ENSURE THE FOLLOWING CATEGORIES.

#### A. DISTURBED AREAS

ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

#### **B. MAINTENANCE PERFORMANCE**

BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER COMPLIANCE WITH THIS PLAN SHALL BE DONE IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION.

#### C. REPORTING REQUIREMENTS

ALL INSPECTIONS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION FORM, A COPY OF WHICH IS PROVIDED ON THIS SHEET. THIS FORM IS CREATED TO SUMMARIZE THE SCOPE OF THE INSPECTION, THE NAME(S) AND QUALIFICATION OF THE INSPECTOR(S), THE DATE OF INSPECTION, RAINFALL DATA, OBSERVATIONS, THE ACTIONS TAKEN TO CORRECT INCIDENTS OF NON-COMPLIANCE WITH THE PROVISIONS OF THIS PLAN. IF NO INCIDENTS OF NON-COMPLIANTS ARE OBSERVED, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE ASSOCIATED

#### XIII. NON-STORMWATER DISCHARGES

IN ADDITION TO STORMWATER RUNOFF, THIS PLAN APPLIES TO RUNOFF FROM IRRIGATION OPERATIONS AND CONSTRUCTION PRACTICES. THIS PLAN DOES NOT PERTAIN TO DISCHARGES FROM FIRE FIGHTING ACTIVITIES.

#### XIV. CONTRACTORS CERTIFICATION

THE CONTRACTORS OR SUB-CONTRACTORS SHALL PHOTOCOPY AND COMPLETE THE FORM ON THIS PAGE. IT SHALL BE PROVIDED TO THE OWNER AND KEPT ON FILE PURSUANT TO SECTION XV REGARDING PROJECT RECORDS

#### XV. RETENTION OF RECORDS

THE PERMITTEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED

THE PERMITTEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS. RECORDS. AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE. OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOTICE OF INTENT. FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

#### XVI. NOTICE OF TERMINATION

#### **NOTICE OF TERMINATION:**

1. WHERE A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION (DEP FORM 62-621.300(6)), SIGNED IN ACCORDANCE WITH PART VII.C OF DEP DOCUMENT NO. 62-621.300(4)(a), WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.

2. FI IMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MEANS THAT ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINALLY STABILIZED AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME. OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN

3. FOR CONSTRUCTION ACTIVITIES WHERE THE OPERATOR CHANGES, THE EXISTING OPERATOR SHALL FILE AN N.O.T. IN ACCORDANCE WITH THIS PART WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO A NEW OPERATOR.

THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS# 2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

TALLAHASSEE, FLORIDA 32399-2400

PROJECTS THAT DISCHARGED STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL SUBMIT A COPY OF THE N.O.T. TO THE OPERATOR OF THE MS4.

#### Responsible Authority Certification Stormwater Pollution Prevention Plan

Site: COPELAND PARK Alachua County, Florida

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 authored and evaluated the information submitted. Based on my inquiry of the person or persons who manages the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation

NAME (RESPONSIBLE AUTHORITY)

#### Contractor/Subcontractor Certification Statement Stormwater Pollution Prevention Plan

DATE

The contractor(s) or sub-contractor(s) responsible for complying with this stormwater pollution prevention plan shall sign the certification statement below. Multiple copies of this certification statement may be necessary depending on the number of sub-contractors associated with the project Site: COPELAND PARK Contracting Firm Alachua County, Florid certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small

#### Stormwater Pollution Prevention Plan

Amount of last rainfall: Date of last rainfall: Stabilization Measures LOCATION CONDITION ACTION REQUIRED

If no action required, mark "N.A."

#### Note: To be completed every 7 days and within 24 hours of a rainfall event of 0.25 inch or more. Structural Controls

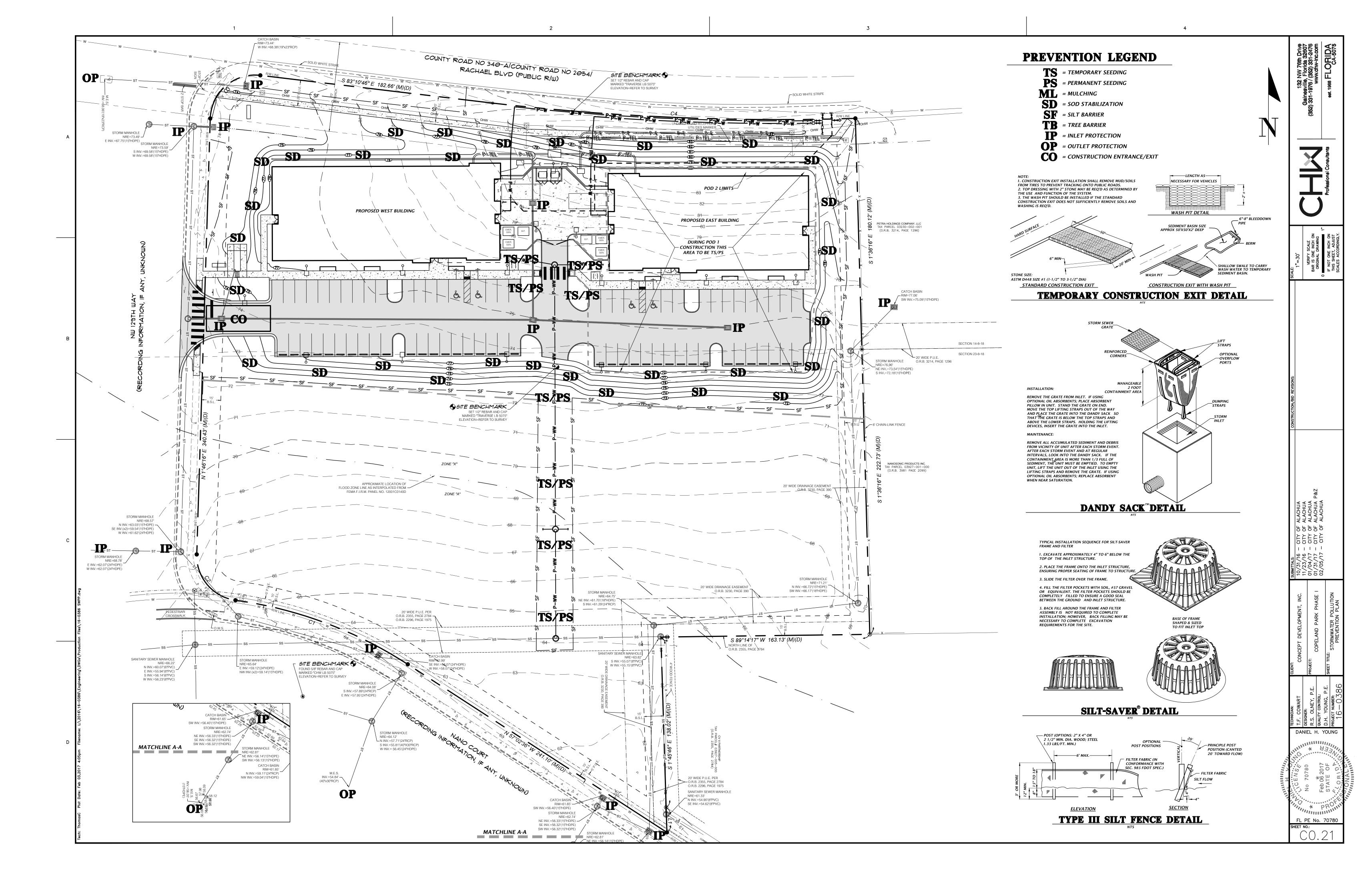
CONDITION LOCATION/TYPE MAINTENANCE REQUIRED If no maintenance required, mark "N.A." Recommended Actions:

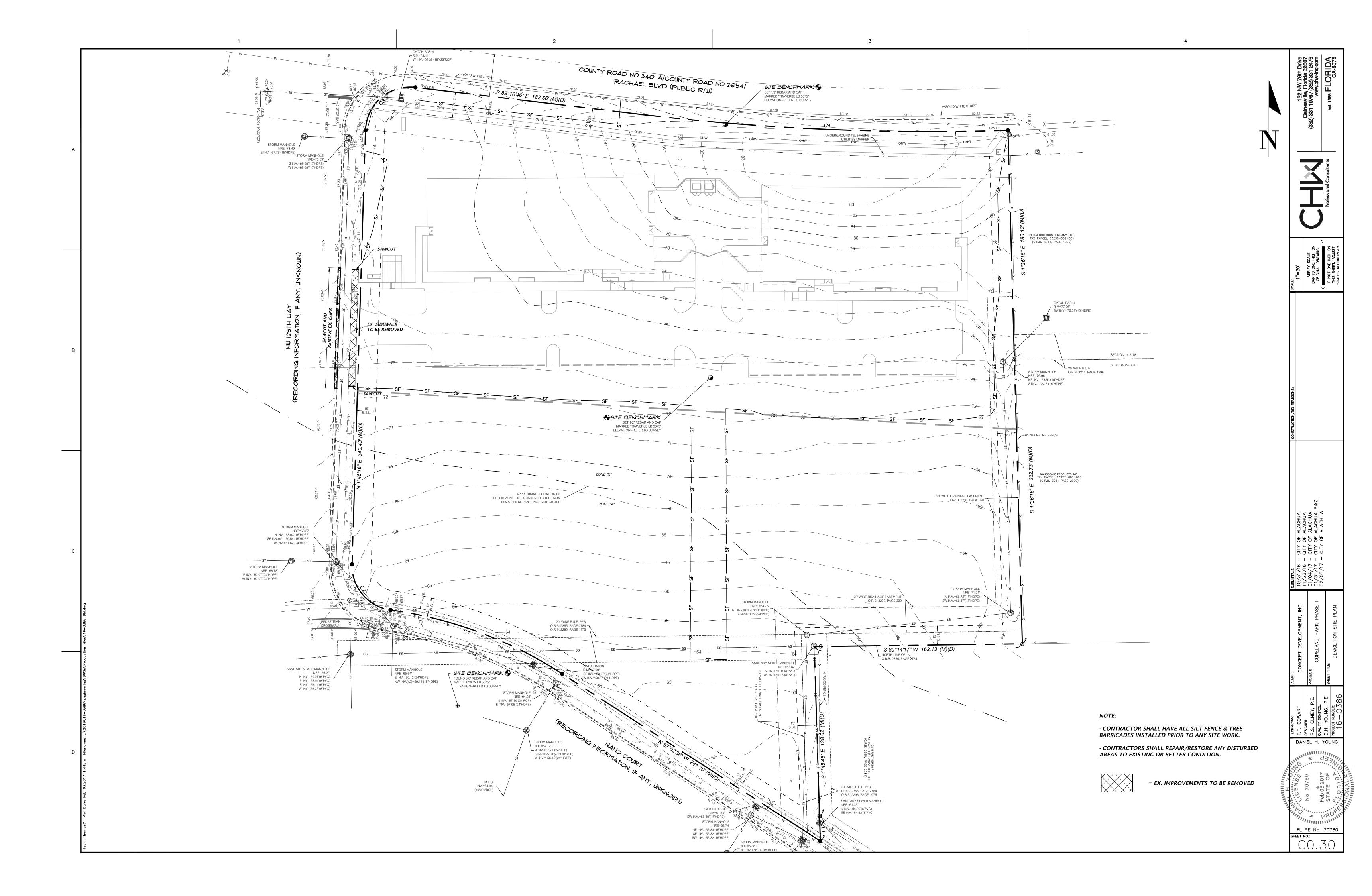
Results of Previous Recommended Actions:

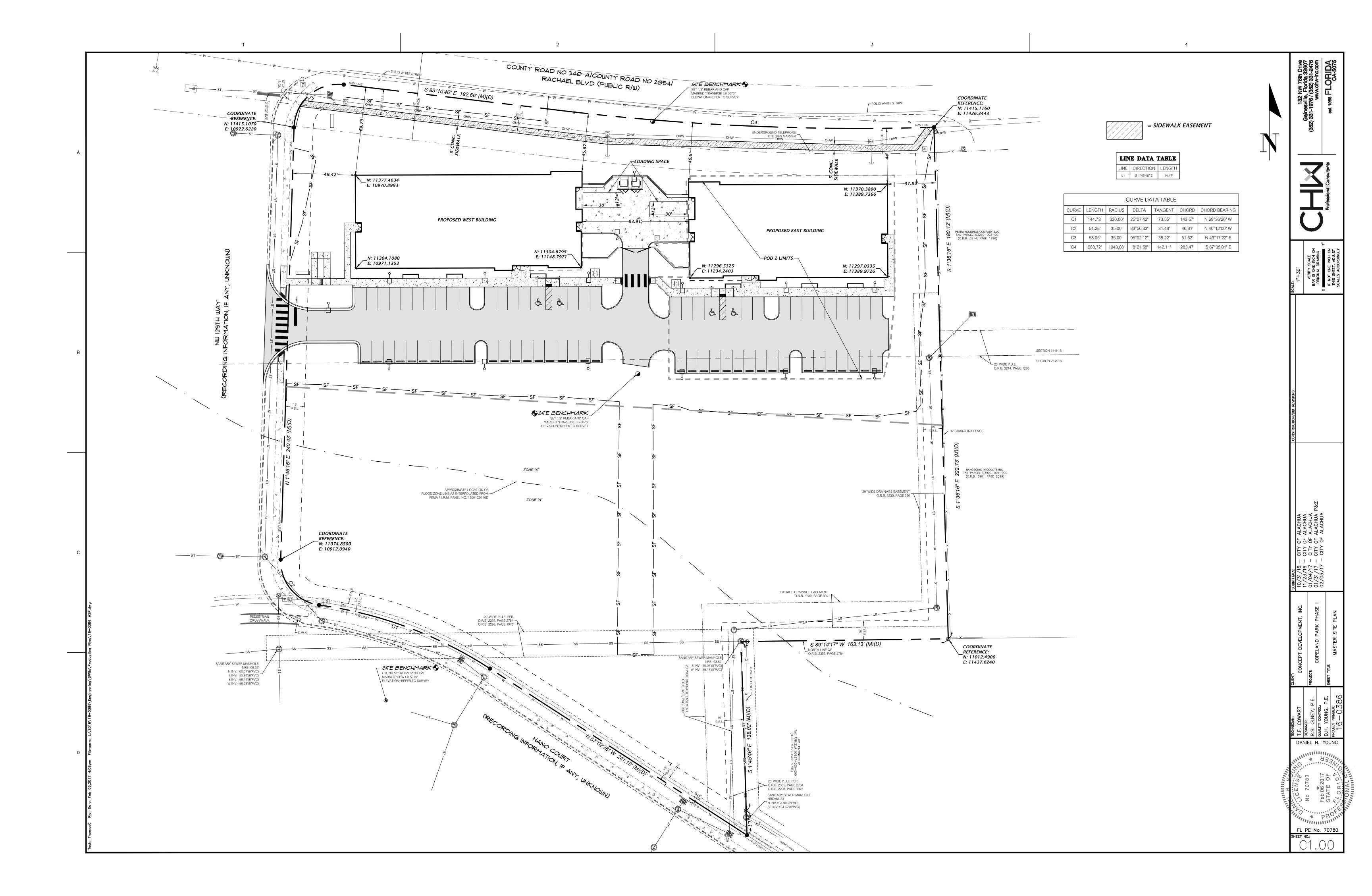
#### Other Control CONDITION FAIR POOR Condition of construction entrance/exit? Condition of construction access road surface? General appearance of site re: trash and debris. Appearance of portables for sanitary discharge? Materials available for emergency spill response? Paint/cleaning compound storage areas condition? Lay-down area condition? Recommended Actions:

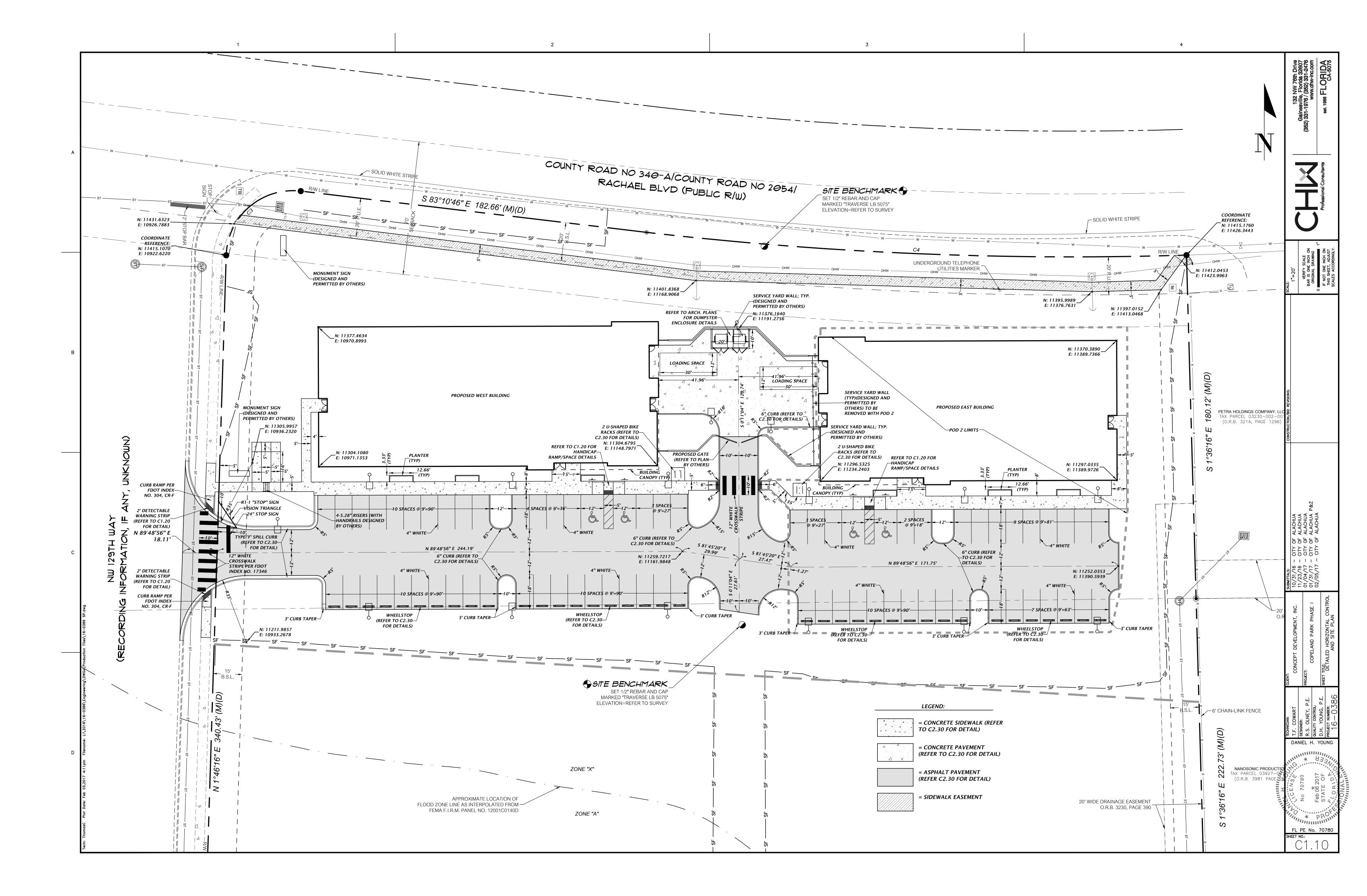
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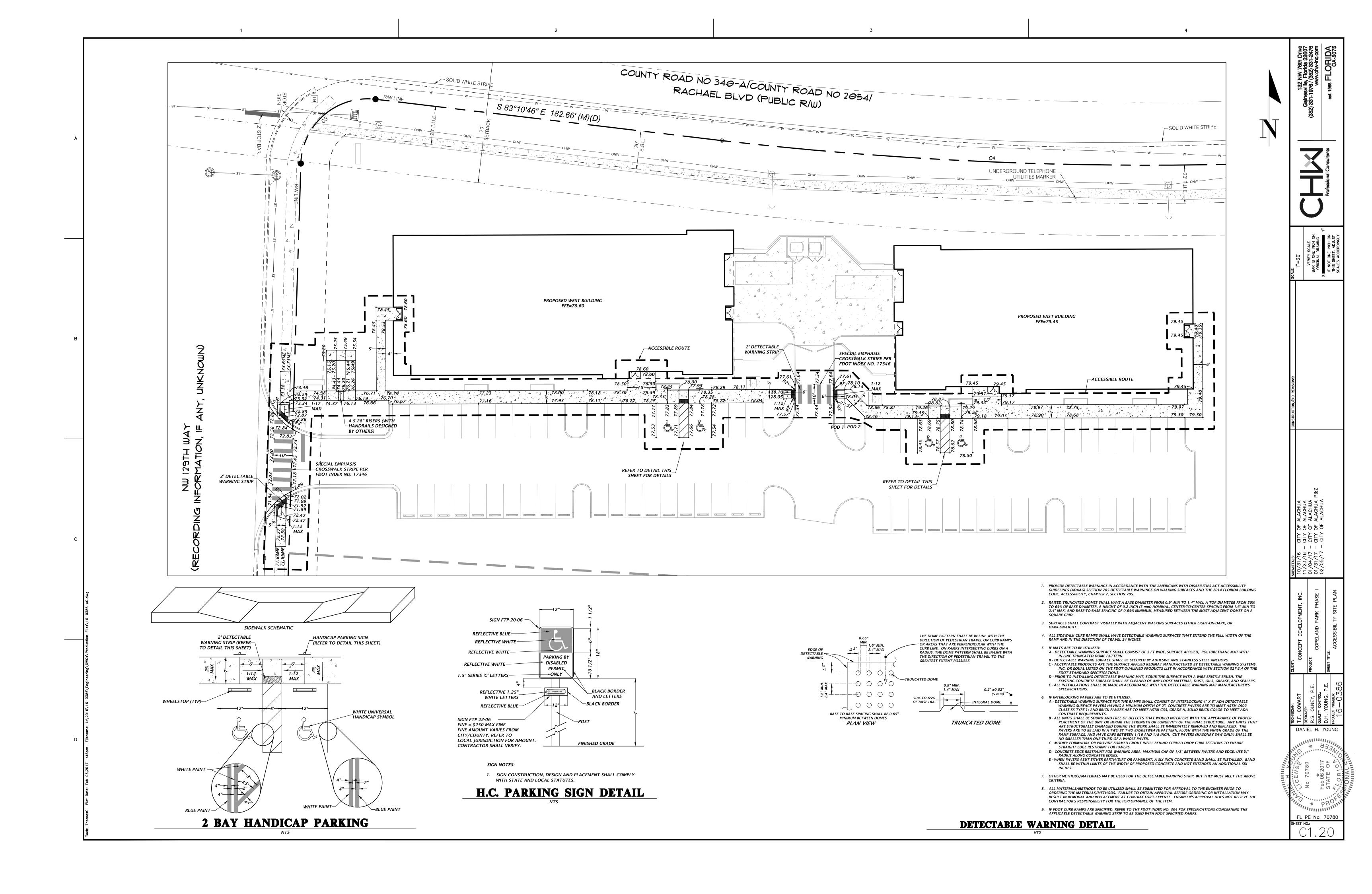
The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above

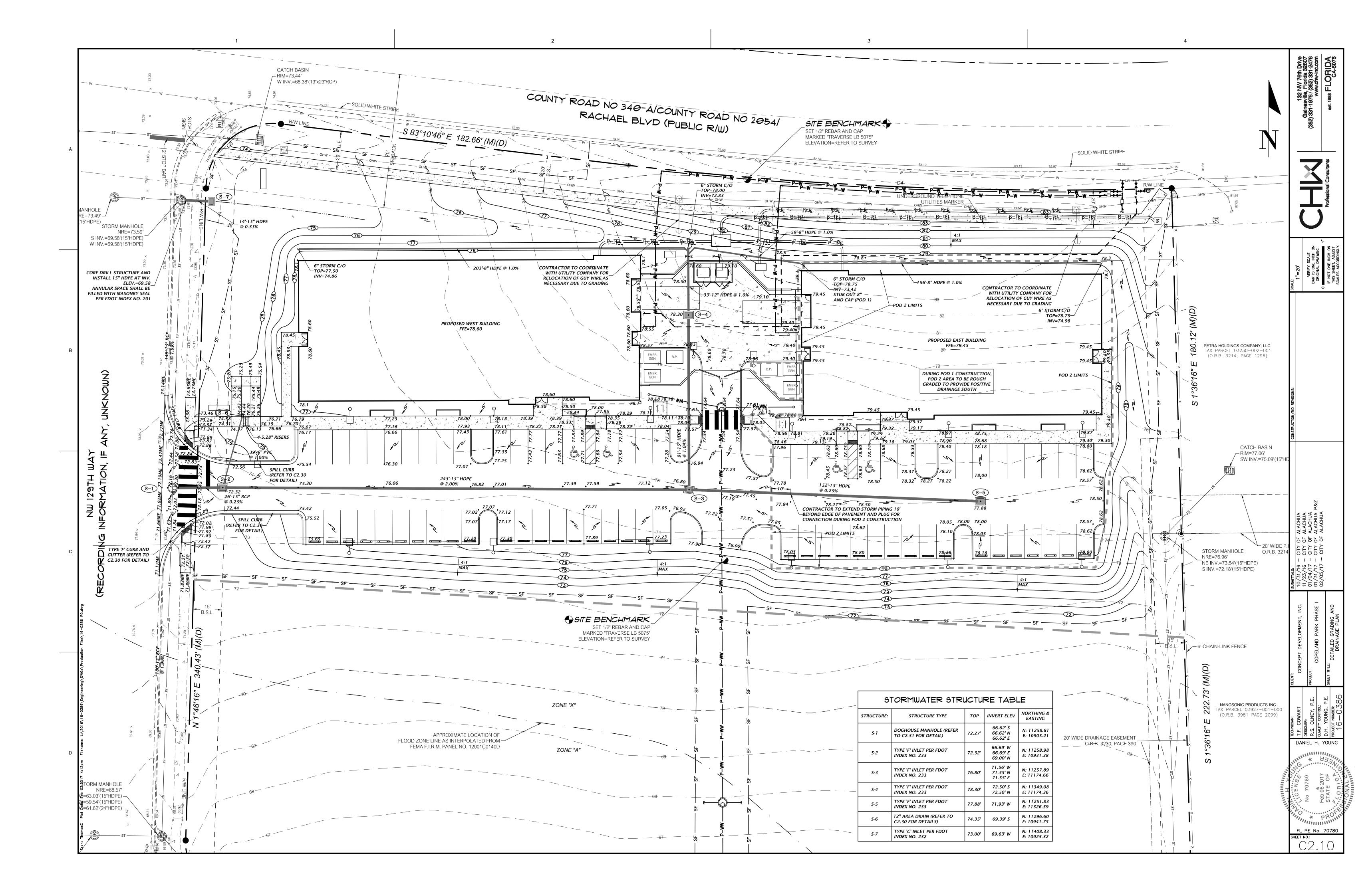


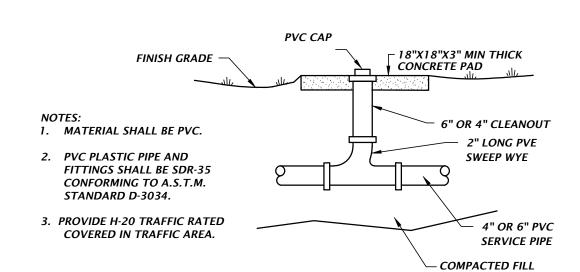




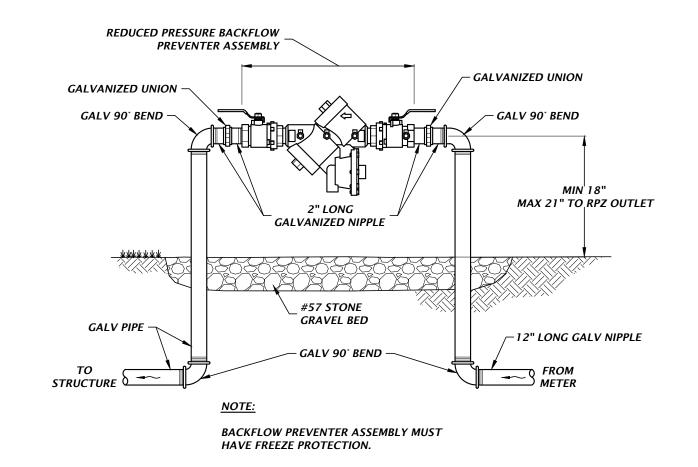




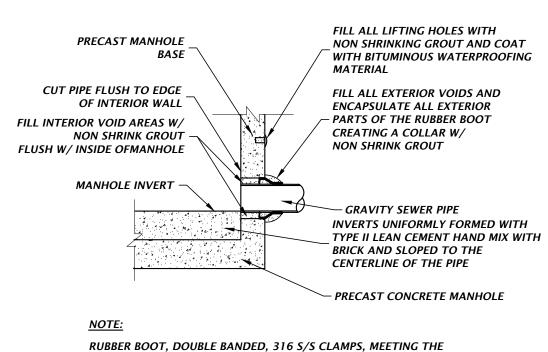




#### INLINE WASTEWATER SERVICE LATERAL



DETAIL No. 240 - 3/4" TO 2" BACKFLOW PREVENTER



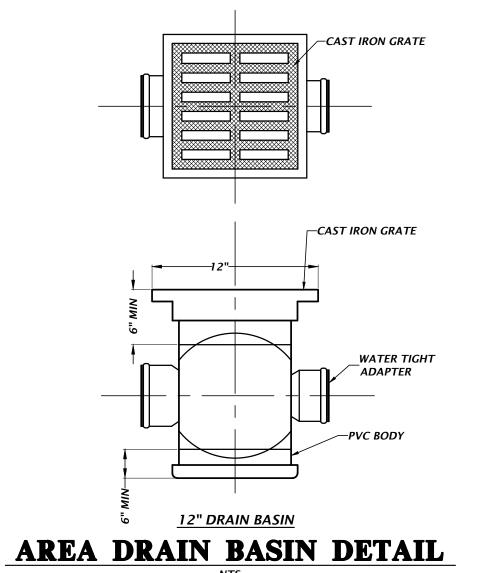
WITH DOUBLE STAINLESS STEEL BANDS OR EQUAL

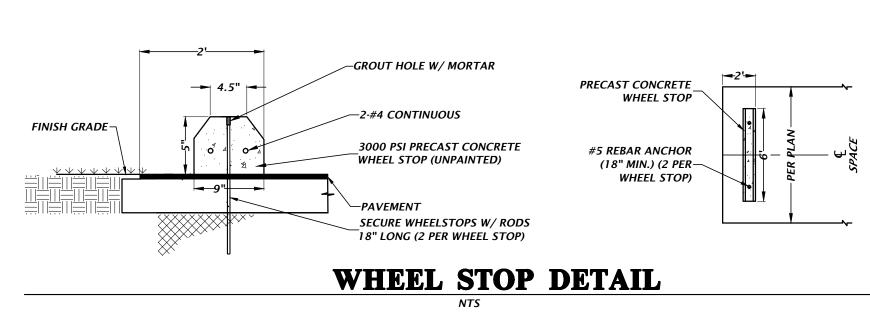
**DETAIL No. 340 - MANHOLE PIPE CONNECTION** 

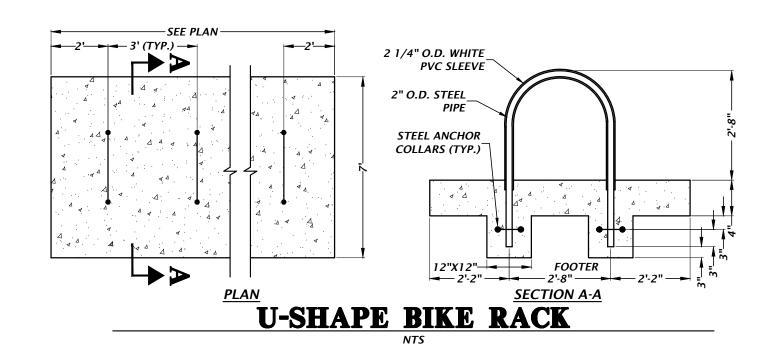
ASTM C923 STANDARD. Kor-N-Seal® I EX SERIES CONNECTOR

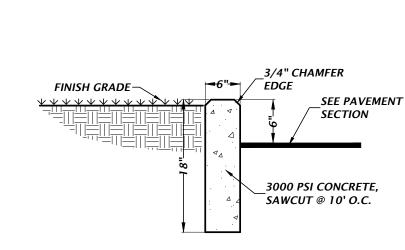
WHEN USED ON THE HIGH SIDE OF ROADWAY, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6".

TYPE 'F' CONCRETE CURB AND GUTTER DETAIL

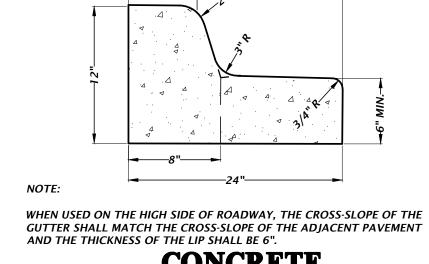




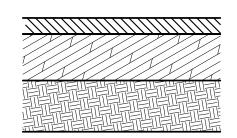




TYPICAL 6" CURB DETAIL



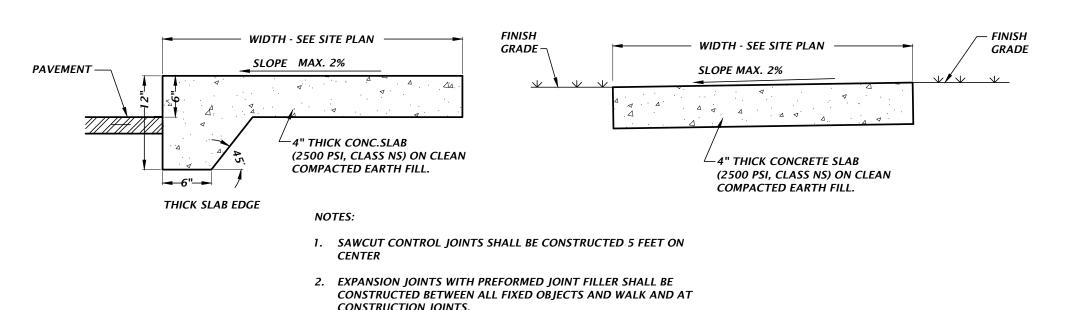
CONCRETE SPILL CURB DETAIL



2" TYPE SP-12.5 ASPHALTIC CONCRETE 8" LIMEROCK BASE COMPACTION (98%) AASHTO T-180 12" STABILIZED TYPE B SUBGRADE MIN. LBR 40 COMPACTION 98% AASHTO T-180

NOTE: IF EXPANSIVE SOILS ARE ENCOUNTERED MIN. 24" SEPARATION FROM THE BASE COURSE, REFER TO GEOTECHNICAL REPORT FOR MEDIATION.

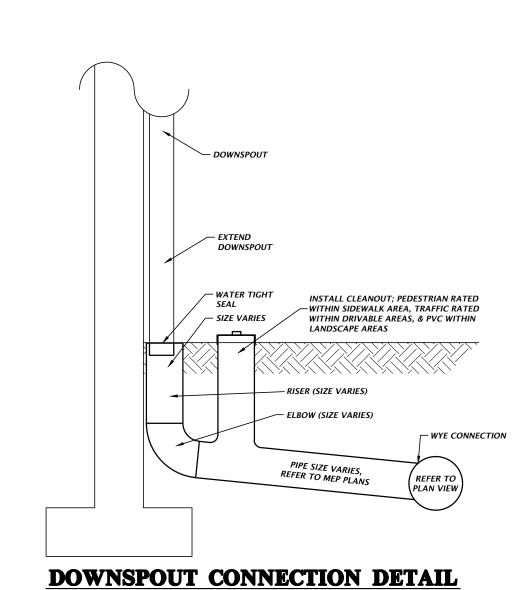
### ASPHALT PAVEMENT DETAIL



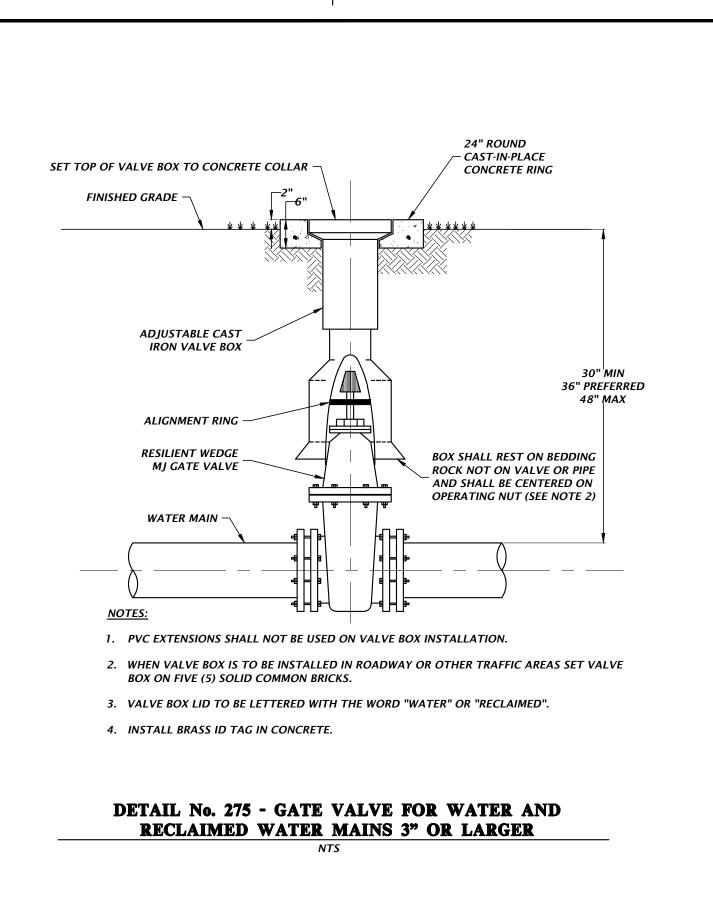
ADJACENT TO PAVEMENT

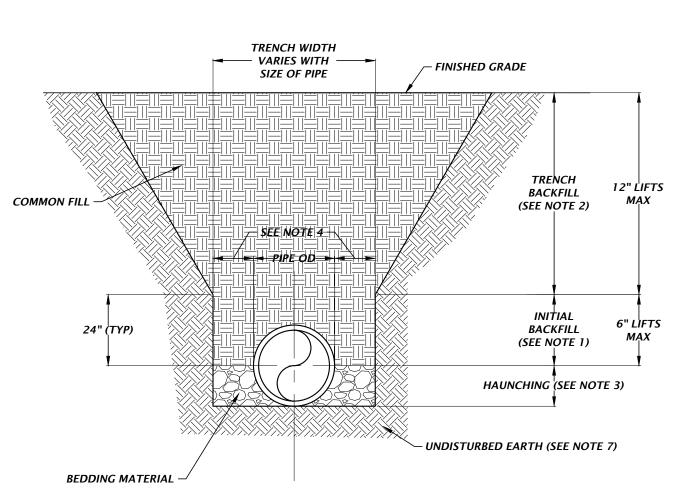
NOT ADJACENT TO PAVEMENT

CONCRETE SIDEWALK DETAILS



DANIEL H. YOUNG

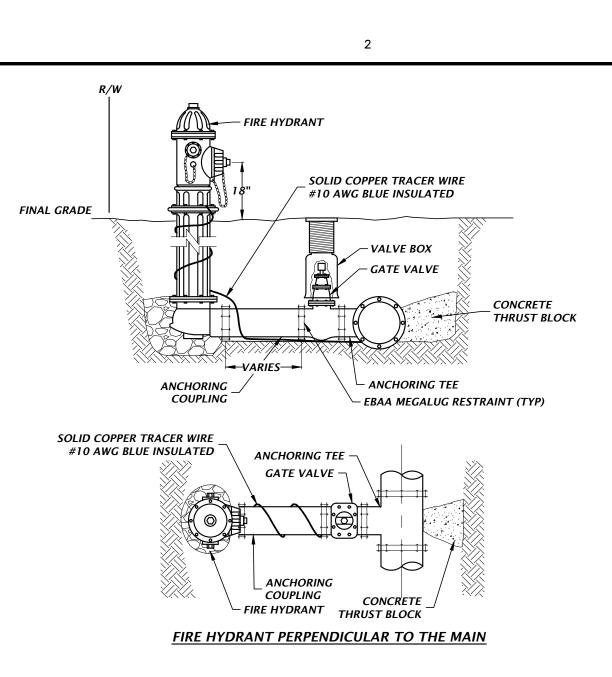




#### **NOTES:**

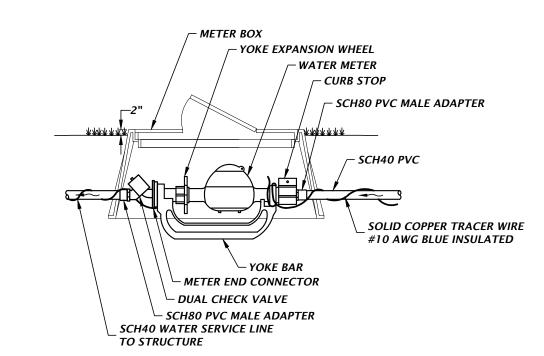
- 1. INITIAL BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180. FROM THE SPRINGLINE OF THE PIPE TO TWO (2) FEET ABOVE THE PIPE THE SOIL SHALL BE CAREFULLY BACKFILLED IN 6" LIFTS AND THE SOIL CONSOLIDATED WITH A HAND OPERATED TAMPING MACHINE (OR AS REQUIRED BY CITY, COUNTY, OR STATE INSPECTORS).
- 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180. AFTER PLACEMENT AND COMPACTION OF THE INITIAL BACKFILL, THE BALANCE OF THE BACKFILL MATERIAL MAY BE MACHINE PLACED OR AS REQUIRED BY THE INSPECTOR AND SHALL NOT CONTAIN ANY ROCKS OR DEBRIS.
- 3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
- 4. 15" MAX (12" MIN) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
- 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- 6 ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- 7. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION. THE BOTTOM OF THE TRENCH SHALL NOT BE EXCAVATED BELOW THE SPECIFIED GRADE. IF UNDERCUTTING OCCURS, THE BOTTOM OF THE TRENCH SHALL BE BROUGHT UP TO THE ORIGINAL GRADE WITH APPROVED MATERIAL AND THOROUGHLY COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR.
- 8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.

DETAIL No. 420 - BEDDING AND TRENCHING DETAIL

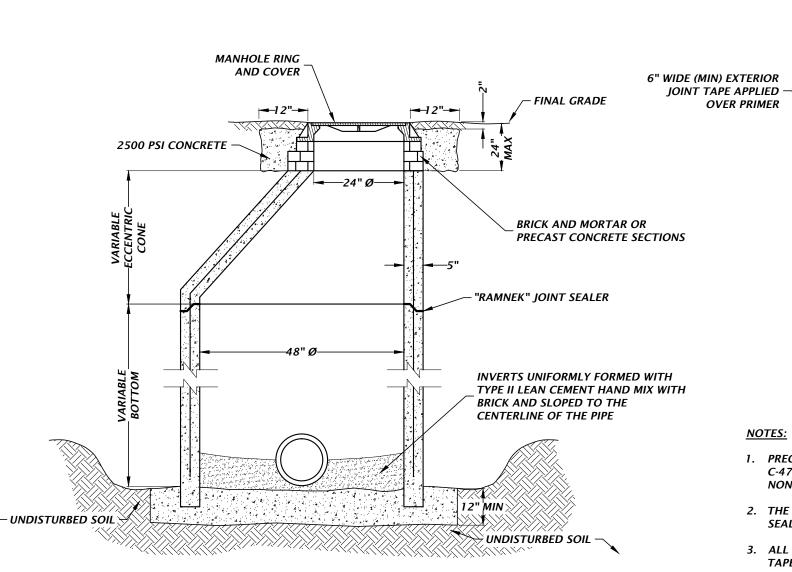


- 1. SEE THRUST BLOCK DETAILS FOR BEARING AREA REQUIRED.
- 2. A NONPOROUS MATERIAL 8 MILS (MIN) VISQUEEN OR 15 Ib (MIN) FELT SHOULD BE PLACED BETWEEN THE CONCRETE AND THE ENTIRE FITTING.

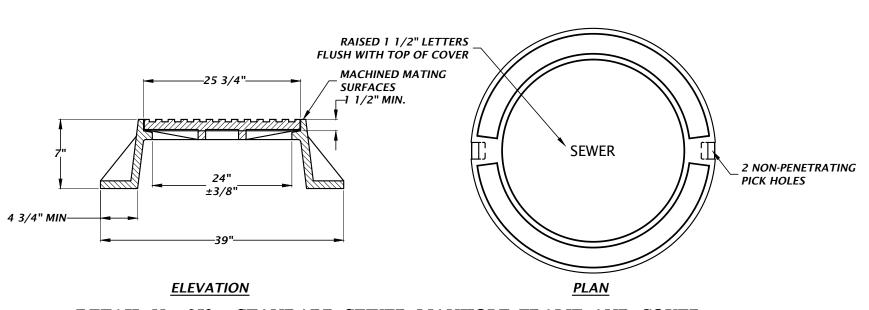
DETAIL No. 210 - FIRE HYDRANT



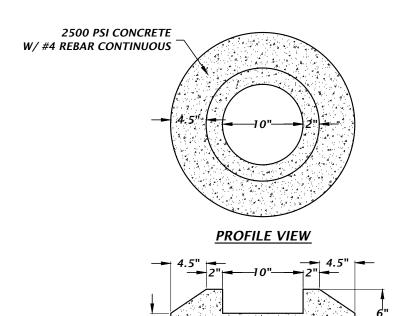
DETAIL No. 230 - 3/4" AND 1" WATER METER ASSEMBLY



DETAIL No. 380 - STANDARD DOGHOUSE MANHOLE CONSTRUCTION



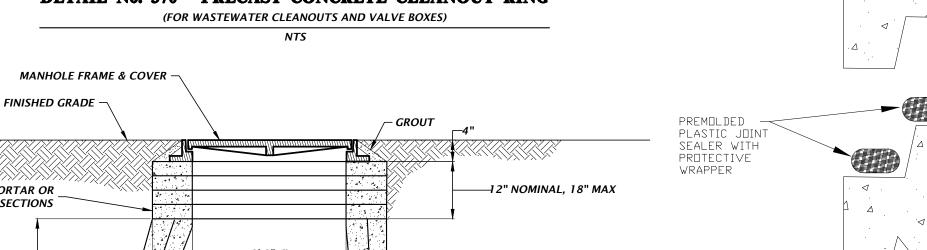
## DETAIL No. 350 - STANDARD SEWER MANHOLE FRAME AND COVER



BRICK AND MORTAR OR

PRECAST CONCRETE SECTIONS

#### **PLAN VIEW DETAIL No. 370 - PRECAST CONCRETE CLEANOUT RING**



- "RAMNEK" JOINT SEALER

BRICK AND SLOPED TO THE

CENTERLINE OF THE PIPE

UNDISTURBED SOIL MIN. BEARING

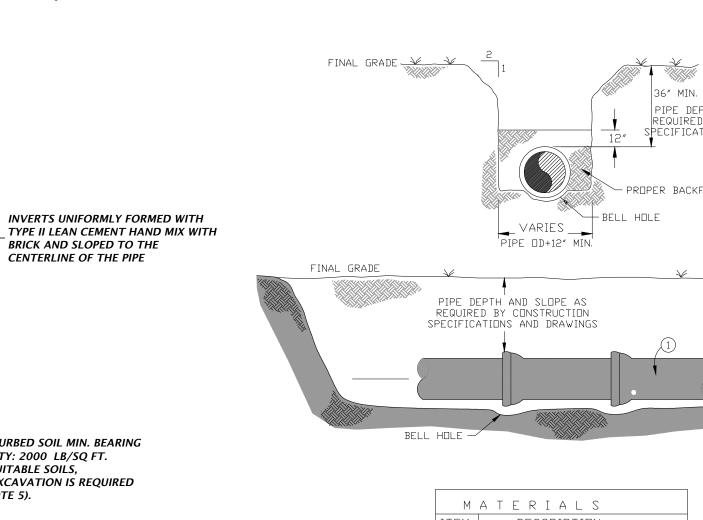
**OVER-EXCAVATION IS REQUIRED** 

CAPACITY: 2000 LB/SQ FT.

- IN UNSUITABLE SOILS,

(SEE NOTE 5).





1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478-73 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH

- 2. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE JOINED AND SEALED WITH "RAMNEK" SEALER.
- 3. ALL M/H JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.

NON-SHRINK GROUT AND SEALED WITH "REMNEK" SEALER.

SLOPE 1/2"

PER FT (TYP)

4. PRECAST BASE SECTIONS WITH A BOTTOM SHALL BE INSTALLED ON UNDISTURBED EARTH. BEDDING IS REQUIRED WHEN THE SOIL CONDITIONS ARE WET OR WHEN THE SOIL IS UNSUITABLE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION. IF UNDERCUTTING OCCURS, THE BOTTOM OF THE TRENCH SHALL BE BROUGHT UP TO THE ORIGINAL GRADE WITH APPROVED MATERIAL AND THOROUGHLY COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR.

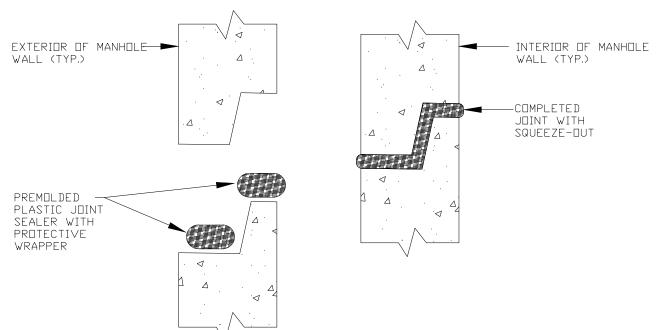
24" ROUND **SOLID COPPER TRACER** - CAST-IN-PLACE WIRE #10 AWG BLUE -CONCRETE RING INSULATED CAST IRON VALVE BOX TO WATER 4"x4" GALV NIPPLE METER TAP AND SLEEVE (FAST-905-4-MJ) 4" SCH40

← 4" RESILIENT WEDGE GATE VALVE

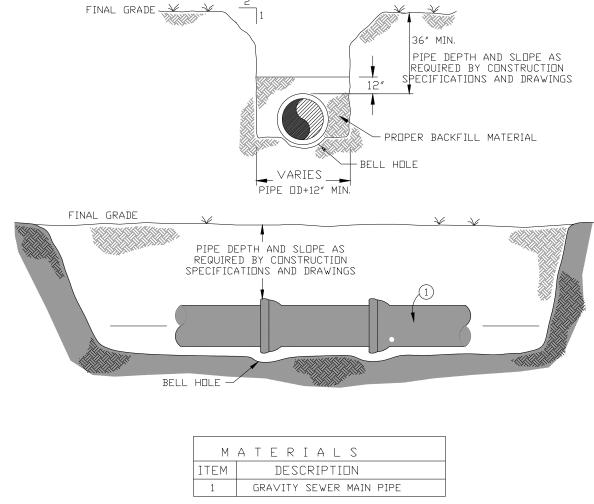
DETAIL No. xxx - 4" WATER SERVICE CONNECTION

4" SCH40 PVC

4" SCH80 PVC MALE ADAPTER -



JOINT ARRANGEMENT AND SEALANT



1. GRAVITY MAIN PIPE SHALL BE INSTALLED AT THE LINE AND GRADE. 2. PIPE MATERIAL SHALL CONFORM TO WW-2.0.

WASTEWATER GRAVITY MAIN CONSTRUCTION

DETAIL No. xxx - STANDARD MANHOLE

ALACHUA ALACHUA ALACHUA ALACHUA ALACHUA 유유유유 1111

DANIEL H. YOUNG