DEVELOPMENT PLANS
FOR:
FOUNDATION PARK PHASE 2

ALACHUA COUNTY, FLORIDA

SECTION 13, TOWNSHIP 8 SOUTH, RANGE 18 EAST

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

PROPERTY OWNERS
UNIVERSITY OF FLORIDA FOUNDATION INC.
P.O. BOX 14425
GAINESVILLE, FL 32604–2425

ALACHUA FOUNDATION PARK HOLDING COMPANY, LLC.
3917 NW 97TH BLVD.
GAINESVILLE, FL 32606

DEVELOPER
CONCEPT DEVELOPMENT, INC.
3917 NW 97TH BOULEVARD
GAINESVILLE, FL 32606
(352) 333–3233

LANDSCAPE ARCHITECT
CAUSSEAUX, HEWETT, & WALPOLE, INC.
132 NW 76TH DRIVE
GAINESVILLE, FL 32607
(352) 331–1976

ENGINEER OF RECORD
DANIEL H. YOUNG, P.E.
CHW
1801 RESEARCH DRIVE
ALACHUA, FL 32615
(352) 331–1976

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

GENERAL NOTES

1. DEVELOPMENT DATA:

		PROPOSED DEVELOPMENT	
TOTAL AREA=	633,271 S.F.	100.0%	14.53 ACRES
EXISTING			
EX. BUILDING AREA=	44,751 S.F.	7.1%	
EX. TOTAL IMPERVIOUS=	120,835 S.F.	19.1%	
EX. OPEN SPACE=	512,436 S.F.	80.9%	
POD 'A'			
EX. BUILDING AREA=	44,751 S.F.	7.1%	
EX. TOTAL IMPERVIOUS=	120,835 S.F.	19.1%	
PROP. BUILDING AREA=	+42,460 S.F.	6.7%	
PROP. CONC./PAVE AREA=	+48,927 S.F.	7.7%	
TOTAL IMPERVIOUS AREA=	212,222 S.F.	33.5%	
OPEN SPACE=	412,049 S.F.	64.5%	
POD 'B'			
EX. BUILDING AREA (INCLUDES 'A') =	87,211 S.F.	13.8%	
EX. TOTAL IMPERVIOUS (INCLUDES 'A') =	212,222 S.F.	33.5%	
EX. IMPERVIOUS TO BE REMOVED=	−6,675 S.F.	1.1%	
PROP. BUILDING AREA=	+42,460 S.F.	6.7%	
PROP. CONC./PAVE AREA=	+69,242 S.F.	10.9%	
TOTAL IMPERVIOUS AREA=	317,249 S.F.	50.1%	
OPEN SPACE=	316,022 S.F.	49.9%	
POD 'C'			
EX. BUILDING AREA (INCLUDES 'A&B') =	129,671 S.F.	20.5%	
EX. TOTAL IMPERVIOUS (INCLUDES 'A&B') =	317,249 S.F.	50.1%	
PROP. BUILDING AREA=	+42,460 S.F.	6.7%	
PROP. CONC./PAVE AREA=	+43,697 S.F.	6.9%	
TOTAL IMPERVIOUS AREA=	403,406 S.F.	63.7%	
OPEN SPACE=	229,865 S.F.	36.3%	

DESCRIPTION: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 127,380 SF OF RESEARCH AND DEVELOPMENT FACILITIES SPLIT INTO 3 PODS TO BE CONSTRUCTED IN SEQUENCE AS FOLLOWS A–B–C. ALSO INCLUDED IS ASSOCIATED PARKING AND ASSOCIATED UTILITY INFRASTRUCTURE.

ZONING & LAND USE DESIGNATION:
ZONING = INDUSTRIAL (ILW)
FUTURE LAND USE = INDUSTRIAL

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

PRIMARY BUILDING (ILW)
FRONT: 20'
SIDE: 15'
REAR: 15'

MINIMUM LOT AREA	NONE
MINIMUM LOT WIDTH	NONE
MAX BUILDING HEIGHT	65'
MAX LOT COVERAGE	NONE
PROPOSED FAR	0.27

3. PARKING CALCULATIONS:

DESCRIPTION	CRITERIA	REQUIRED	EXISTING	PROVIDED–POD 'A'	PROVIDED–POD 'B'	PROVIDED–POD 'C'
VEHICULAR PARKING	MANUFACTURING, LIGHT–LABORATORIES: MIN. 1 PER 350 SF FLOOR AREA	42,460 SF X 1 SPACE/350 SF = 121 SPACES MAX= 121 X 125% = 151 SPACES	99 SPACES INCLUDING 5 HANDICAP SPACES	124 SPACES INCLUDING 5 HANDICAP SPACES	134 SPACES INCLUDING 5 HANDICAP SPACES	107 SPACES INCLUDING 5 HANDICAP SPACES
BICYCLE PARKING	1 PER 10 REQUIRED SPACES	121/10 = 12 SPACES	6 SPACES	12 SPACES	14 SPACES	12 SPACES
OFF–STREET AND LOADING	1 FOR OFFICE SPACE OVER 10,000 SF, 1 ADDTL FOR OFFICE SPACE OVER 40,000 SF	2 SPACES	2 SPACES	2 SPACES	2 SPACES	2 SPACES

NOTE: AS POD 'C' DOES NOT PROVIDE THE REQUIRED SPACES POD 'A' & 'B' MUST BE CONSTRUCTED FIRST TO PROVIDE THE ADDITIONAL PARKING SPACES.

DEVELOPMENT SEQUENCE	VEHICLE PARKING		BICYCLE PARKING		LOADING SPACES	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
EXISTING	99	99	6	6	2	2
EXISTING + POD A	220	223	18	18	4	4
EXISTING + PODS A AND B	341	357	30	30	6	6
EXISTING + PODS A, B AND C	462	464	42	42	8	8

4. 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 CITY OF ALACHUA.
–RECLAIM WATER SERVICE IS NOT AVAILABLE TO THE PROJECT SITE AT THE CURRENT TIME.

5. DRAINAGE:
THERE IS AN EXISTING STORMWATER MASTER SYSTEM WHICH INCLUDE FUTURE PHASES. IT WAS PERMITTED WITH THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT AND THE CITY OF ALACHUA UNDER SRWMD PERMIT No. ERP08–0041.

6. NATURAL FEATURES:
TOPOGRAPHY WILL SLOPE FROM EAST TO WEST WITH MODERATE SLOPES. THERE ARE NO OTHER NATURAL SITE FEATURES.

7. ZONING/LAND USE INFORMATION AND COMPLIANCE:

LIGHT AND WAREHOUSE INDUSTRIAL (ILW) ZONING DISTRICT DESIGNATION.

THE PROPOSED FACILITIES IS CONSISTENT WITH THE LIGHT INDUSTRIAL. DEFINITION PROVIDED IN ARTICLE 4 OF THE LDRS. PER ARTICLE 4 OF THE LDRS, LIGHT INDUSTRIAL 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 FEW EXISTING TREES ON SITE AND THE PROPOSED LANDSCAPING FULFILLS GENERAL, MITIGATION, AND BUFFER REQUIREMENTS. THE PROPOSED STORMWATER CONVEYANCE SYSTEM AND EROSION PROTECTION PROPOSED FULFILL ENVIRONMENTAL PROTECTION STANDARDS THROUGH THE USE OF BMPS.

8. CONCURRENCY IMPACT ANALYSIS:
SUBMITTED UNDER SEPARATE COVER

9. LEGAL DESCRIPTION: (AS FURNISHED)

A PARCEL OF LAND BEING A PORTION OF LOT 1, PROGRESS TECHNOLOGY PARK, A PLAT THEREOF AS RECORDED IN PLAT BOOK 28, PAGE 86–87 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, SITUATED IN SECTION 13 AND 24, TOWNSHIP 8 SOUTH, RANGE 18 EAST, CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

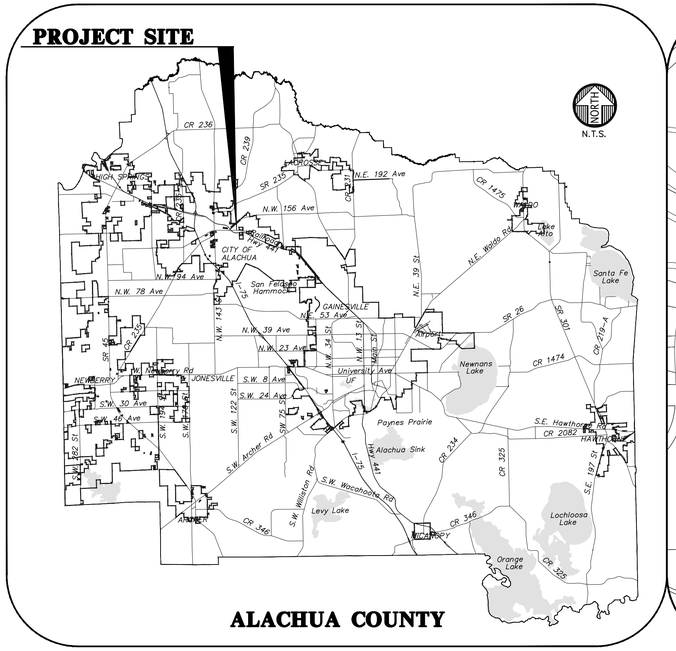
BEGIN AT THE NORTHEAST CORNER OF SAID LOT 1; THENCE SOUTH 6°38'36" WEST ALONG THE EAST LINE OF SAID LOT 1, A DISTANCE OF 363.83 FEET; THENCE SOUTH 9°25'10" EAST ALONG SAID EAST LINE, A DISTANCE OF 405.56 FEET TO THE SOUTHEAST CORNER OF SAID LOT 1 AND TO A POINT ON A CURVE LYING ON THE NORTH RIGHT OF WAY LINE OF U.S. HIGHWAY NO. 441 (200–FOOT RIGHT OF WAY) BEING CONCAVE NORTHERLY, HAVING A RADIUS OF 2191.78 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF SOUTH 89°59'03" WEST, 468.69 FEET; THENCE WESTERLY ALONG THE ARC OF SAID CURVE, THE SOUTH LINE OF SAID LOT 1 AND ALONG SAID NORTH RIGHT OF WAY LINE, THROUGH A CENTRAL ANGLE OF 12°16'32", AN ARC LENGTH OF 469.59 FEET TO SOUTHEAST CORNER OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4343, PAGE 2222 OF SAID PUBLIC RECORDS; THENCE DEPARTING SAID NORTH RIGHT OF WAY LINE THE FOLLOWING FOUR (4) COURSES ALONG THE BOUNDARY OF SAID LANDS: (1) NORTH 5°35'16" EAST, A DISTANCE OF 286.19 FEET; (2) THENCE NORTH 77°10'09" WEST, A DISTANCE OF 50.95 FEET; (3) THENCE NORTH 12°49'51" EAST , A DISTANCE OF 168.13 FEET; (4) THENCE NORTH 84°24'33" WEST, A DISTANCE OF 394.02 FEET TO A POINT ON A CURVE LYING ON THE EAST RIGHT OF WAY LINE OF NORTHWESTERLY 119TH TERRACE (RIGHT OF WAY VARIES), AND LYING ON THE WEST LINE OF AFOREMENTIONED LOT 1, SAID CURVE IS CONCAVE EASTERLY, HAVING A RADIUS OF 370.42 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF NORTH 11°31'19" EAST, 72.38 FEET; THENCE THE FOLLOWING FOUR (4) COURSES ALONG SAID EAST RIGHT OF WAY LINE AND SAID WEST LINE OF LOT 1: (1) THENCE NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 11°12'49", AN ARC LENGTH OF 72.50 FEET; (2) THENCE NORTH 17°07'56" EAST, A DISTANCE OF 119.59 FEET TO THE BEGINNING OF A CURVE CONCAVE WESTERLY, HAVING A RADIUS OF 430.00 FEET AND BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF NORTH 12°15'59" EAST, 72.95 FEET; (3) THENCE NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 9°43'54", AN ARC LENGTH OF 73.03 FEET; (4) THENCE NORTH 7°24'02" EAST, A DISTANCE OF 103.96 FEET TO NORTHWEST CORNER OF AFOREMENTIONED LOT 1, LYING ON THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 2054 (66–FOOT RIGHT OF WAY); THENCE SOUTH 82°35'58" EAST ALONG SAID SOUTH RIGHT OF WAY LINE AND THE NORTH LINE OF SAID LOT 1, A DISTANCE OF 748.69 FEET TO THE POINT OF BEGINNING.

ALACHUA FOUNDATION PARK HOLDING COMPANY, LLC PROPERTY:

A PORTION OF LOT 1 OF "PROGRESS TECHNOLOGY PARK", A SUBDIVISION AS PER PLAT THEREOF, RECORDED IN PLAT BOOK 28, PAGES 86 AND 87 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

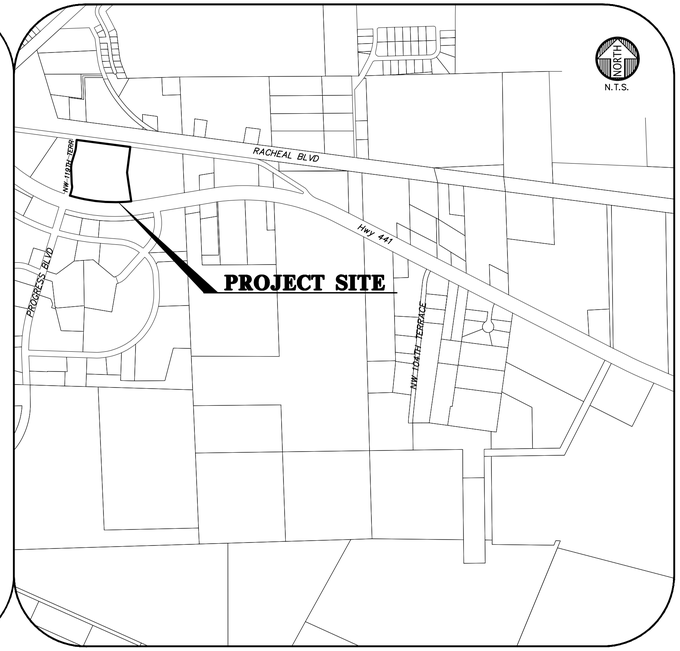
BEGIN AT THE SOUTHWEST CORNER OF LOT 1 OF "PROGRESS TECHNOLOGY PARK", A SUBDIVISION AS PER PLAT THEREOF, RECORDED IN PLAT BOOK 28, PAGES 86 AND 87 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, SAID CORNER LYING ON THE NORTHERLY RIGHT–OF–WAY LINE OF STATE ROAD NO.'S 20 AND 25 (U.S. HIGHWAY NO. 441, 200 FOOT RIGHT–OF–WAY), AND RUN THENCE SOUTHEASTERLY ALONG SAID RIGHT–OF–WAY LINE AND ALONG THE ARC OF A CURVE, CONCAVE NORTHERLY, HAVING A RADIUS OF 2191.86 FEET, THROUGH A CENTRAL ANGLE OF 10°32'48" AN ARC DISTANCE OF 403.46 FEET, SAID ARC BEING SUBTENDED BY A CHORD, HAVING A BEARING AND DISTANCE OF SOUTH 78°36'19" EAST, 402.89 FEET; THENCE NORTH 05°35'16" EAST, 286.19 FEET; THENCE NORTH 77°10'09" WEST, 50.95 FEET; THENCE NORTH 12°49'51" EAST, 168.13 FEET; THENCE NORTH 84°24'33" WEST, 394.02 FEET TO A POINT ON THE WEST LINE OF SAID LOT 1 AND TO A POINT ON THE EASTERLY RIGHT–OF–WAY LINE OF NW 119TH TERRACE; SAID POINT LYING ON THE ARC OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 370.00 FEET; THENCE SOUTHERLY, ALONG THE ARC OF SAID CURVE, AND ALONG SAID EASTERLY RIGHT–OF–WAY LINE, THROUGH A CENTRAL ANGLE OF 08°09'57", AN ARC DISTANCE OF 52.73 FEET TO THE END OF SAID CURVE, SAID ARC BEING SUBTENDED BY A CHORD, HAVING A BEARING AND DISTANCE OF SOUTH 01°49'26" WEST, 52.69 FEET; THENCE SOUTH 02°15'33" EAST, ALONG SAID EASTERLY RIGHT–OF–WAY LINE, 176.16 FEET TO THE BEGINNING OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 450.00 FEET; THENCE SOUTHERLY, ALONG SAID EASTERLY RIGHT–OF–WAY LINE, AND ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 06°18'05" AN ARC DISTANCE OF 49.62 FEET TO THE END OF SAID CURVE, SAID ARC BEING SUBTENDED BY A CHORD, HAVING A BEARING AND DISTANCE OF SOUTH 05°25'06" EAST, 49.60 FEET, THE END OF SAID CURVE BEING THE BEGINNING OF A CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 121.00 FEET; THENCE SOUTHERLY, ALONG SAID EASTERLY RIGHT–OF–WAY LINE, AND ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 17°55'58", AN ARC DISTANCE OF 37.87 FEET TO THE END OF SAID CURVE, SAID ARC BEING SUBTENDED BY A CHORD HAVING A BEARING AND DISTANCE OF SOUTH 00°23'21" WEST, 37.72 FEET, THE END OF
SAID CURVE BEING THE BEGINNING OF A CURVE, CONCAVE WESTERLY, HAVING A
RADIUS OF 440.00 FEET; THENCE SOUTHERLY, ALONG SAID EASTERLY RIGHT–OF–WAY LINE AND ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 08°21'30", AN ARC DISTANCE OF 64.19 FEET TO THE END OF SAID CURVE, SAID ARC BEING SUBTENDED BY A CHORD, HAVING A BEARING AND DISTANCE OF SOUTH 13°32'05" WEST, 64.13 FEET; THENCE SOUTH 17°42'49" WEST, ALONG SAID EASTERLY RIGHT–OF–WAY LINE, 42.77 FEET TO THE POINT OF BEGINNING.

PROJECT SITE



ALACHUA COUNTY

VICINITY MAP



LOCATION MAP

BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING OR DISTURBING EARTH
1-800-432-4770
811 Know what's **below.** **Call** before you dig.

SHEET INDEX

SHEET NUMBER	DESCRIPTION
C0.00	COVER SHEET AND INDEX
C0.01	EXISTING CONDITIONS MAP
C0.10	GENERAL NOTES
C0.11	LEGEND
C0.20	STORMWATER POLLUTION PREVENTION NOTES
C0.21-C0.23	STORMWATER POLLUTION PREVENTION PLAN
C0.30	DEMOLITION AND TREE PROTECTION PLAN
C1.00	MASTER SITE PLAN
C1.10-C1.13	DETAILED HORIZONTAL CONTROL AND SITE PLAN
C2.00	MASTER DRAINAGE PLAN
C2.10-C2.13	DETAILED GRADING AND DRAINAGE PLAN
C2.30-C2.31	CONSTRUCTION DETAILS
C3.00	MASTER UTILITY PLAN
C3.10-C3.11	DETAILED UTILITY PLAN
L-100	LANDSCAPE & IRRIGATION PLAN REFERENCE MAP
L-101	LANDSCAPE NOTES, DETAILS, & CALCULATIONS - PHASE 1 (FOR REFERENCE ONLY)
L-102 - L-103	LANDSCAPE PLAN - PHASE 1 (FOR REFERENCE ONLY)
L-200	LANDSCAPE NOTES, DETAILS, & CALCULATIONS - POD 2A
L-201 - L202	LANDSCAPE PLAN POD 2A
L-203	IRRIGATION DETAILS & SPECIFICATIONS - POD 2A
L-204	IRRIGATION PLAN POD 2A
L-300	LANDSCAPE NOTES, DETAILS, & CALCULATIONS - POD 2B
L-301 - L302	LANDSCAPE PLAN POD 2B
L-303	IRRIGATION DETAILS & SPECIFICATIONS - POD 2B
L-304	IRRIGATION PLAN POD 2B
L-400	LANDSCAPE NOTES, DETAILS, & CALCULATIONS - POD 2C
L-401	LANDSCAPE PLAN POD 2C
L-402	IRRIGATION DETAILS & SPECIFICATIONS - POD 2C
L-403	IRRIGATION PLAN POD 2C
E-1 - E-3	SITE PHOTOMETRIC PLAN
E101	SITE ELECTRICAL PLAN
A101-A103	ARCHITECTURAL FLOOR PLANS
A200-A202	ARCHITECTURAL ELEVATIONS

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG
FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	N/A
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

COVER SHEET AND INDEX

SHEET NUMBER
C0.00

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Sep 27,2016 7:45am Filename: L:\2016\16-0111\Engineering\DWGs\Production Files\16-0111 CV.dwg

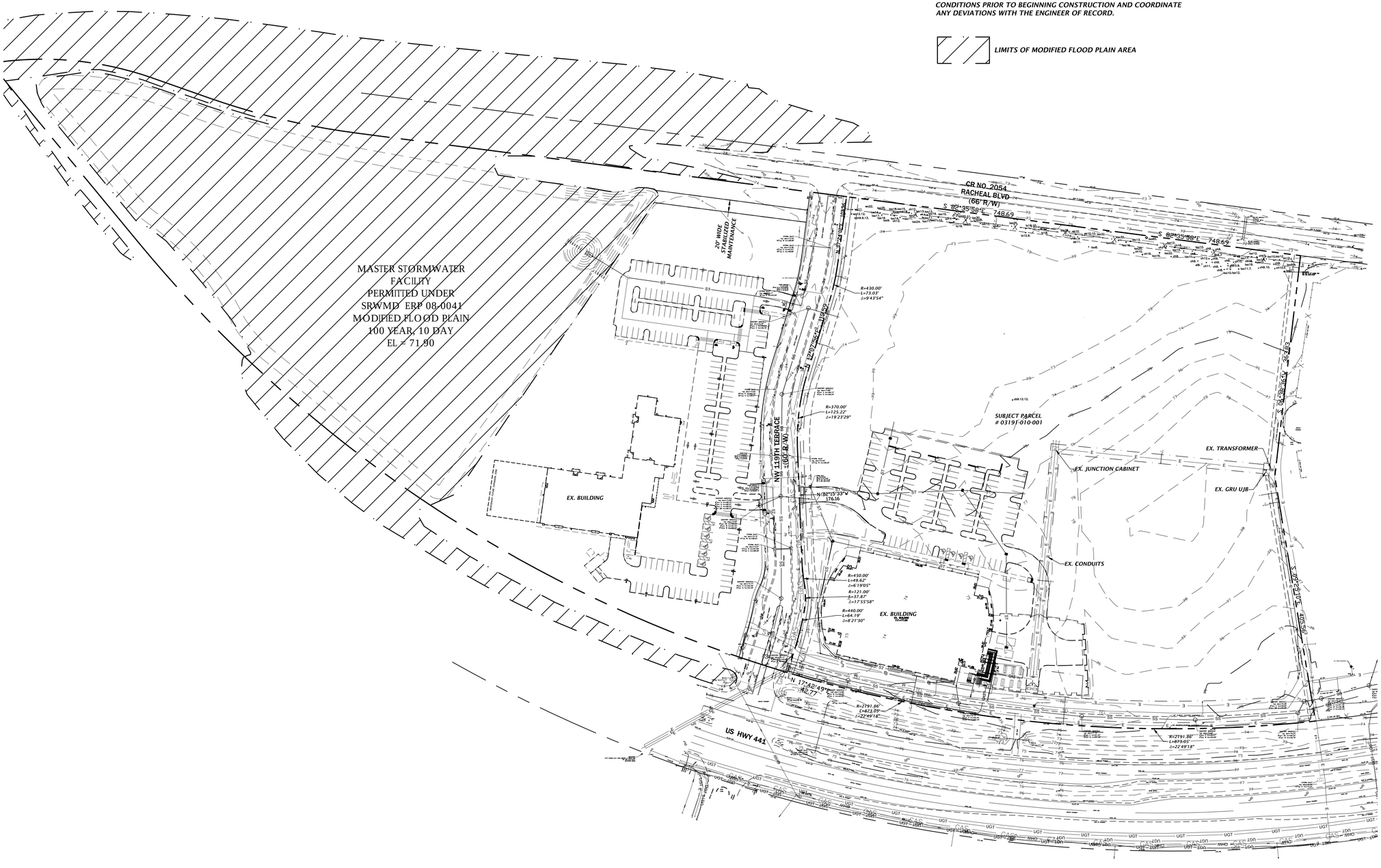
NOTE: THE EXISTING CONDITIONS PLAN WAS PREPARED BY PLANS PROVIDED BY OTHERS. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER OF RECORD.

LIMITS OF MODIFIED FLOOD PLAIN AREA

N

GRAPHIC SCALE

0 40 80 160



RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=80'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

EXISTING CONDITIONS MAP

SHEET NUMBER

C0.01

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:19am Filename: L:\2016\16-0111\Engineering\CHWcA\Production Files\16-0111 ECM.dwg

GENERAL NOTES

1. THE EXISTING INFORMATION WAS TAKEN FROM A PERMIT SET OF PLANS PRODUCED BY EDA, INC. UNDER PROJECT NUMBER 501-3563-000.

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 ALLOWED.

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 JURISDICTION 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 TECHNIQUES.

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 INSPECTED BY CHW'S INSPECTOR 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 REPORT.

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 FOLLOWING CONSTRUCTION PER LOCAL INSPECTOR.

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.

20. THE GOVERNING STANDARDS AND SPECIFICATIONS, UNLESS STATED OTHERWISE SHALL BE PER FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2016, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 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 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 DISABILITY'S ACT.

25. 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 SITE CONSTRUCTION.

26. ANY CHANGE ORDER REQUESTS, SITE REVISIONS, AND PAY REQUESTS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.

27. 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 120.

28. 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.).

29. 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.

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 ADJACENT 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.

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 IMMEDIATELY.

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 TRANSITION.

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 FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL 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 EROSION/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.

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 RESPONSIBLE FOR ADHERENCE TO ALL CONDITIONS CONTAINED IN THE PERMIT.

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 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 CONSTRUCTION.

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 #29 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.

17. ALL STORM SEWER CURB AND DITCH BOTTOM INLETS SHALL CONFORM TO THE APPLICABLE FDOT INDEX. ALL DRAINAGE STRUCTURES WITH GRATES THAT ARE LOCATED IN GRASSED AREAS SHALL HAVE THE GRATE CHAINED TO THE STRUCTURE USING AN EYE BOLT AND CHAIN.

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.

20. COMPACTION OF ALL MATERIALS SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR RECORD.

21. ALL RCP PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 430.

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, F.A.C.

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.

ELECTRIC SERVICE GENERAL NOTES

1. ALL ELECTRICAL UTILITIES AND INFORMATION SHOWN ON THE CIVIL PLANS ARE FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS BY OTHERS FOR THE ELECTRICAL DESIGN AND DETAILS.

2. ELECTRIC DESIGN PROVIDED BY OTHERS.

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	N/A
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

GENERAL NOTES

SHEET NUMBER

C0.10

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:15am Filename: L:\2016\16-0111\Engineering\CHWA\Production Files\16-0111 NT.dwg

ABBREVIATIONS

	SYMBOLS
'	*FEET (WHEN USED WITH LENGTHS)*
°	*DEGREES*
'	*MINUTES (WHEN USED WITH ANGLES)*
"	*SECONDS*
%	*PERCENT*
@	*AT*
	A
AASHTO	*ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS*
AC	*ACRES*
ADA	*AMERICAN WITH DISABILITIES ACT*
ANSI	*AMERICAN NATIONAL STANDARDS INSTITUTE*
ARCH	*ARCHITECT*
ARV	*AIR RELEASE VALVE*
ASTM	*AMERICAN SOCIETY FOR TESTING AND MATERIALS*
AWWA	*AMERICAN WATER WORKS ASSOCIATION*
	B
BC	*BACK OF CURB*
BFP	*BACKFLOW PREVENTER*
BLDG	*BUILDING*
BM	*BENCHMARK*
BMP	*BEST MANAGEMENT PRACTICE*
BOC	*BACK OF CURB*
BVCS	*BEGIN VERTICAL CURVE STATION*
BVCE	*BEGIN VERTICAL CURVE ELEVATION*
BW	*BOTTOM OF WALL*
BSL	*BUILDING SETBACK LINE*
	C
CATV	*CABLE TELEVISION*
CI	*CURB INLET*
CIP	*CAST IRON PIPE*
CMP	*CORRUGATED METAL PIPE*
CO	*CLEANOUT*
CONC	*CONCRETE*
COORD	*COORDINATE*
CR	*COUNTY ROAD*
C/O	*CLEANOUT*
	D
DBH	*DIAMETER AT BREAST HEIGHT*
DE	*DRAINAGE EASEMENT*
DEG	*DEGREE*
DIA	*DIAMETER*
DIP	*DUCTILE IRON PIPE*
DWG	*DRAWING*
	E
e	*RATE OF ELEVATION*
E	*EAST*
EA	*EACH*
EL	*ELEVATION*
ELEV	*ELEVATION*
EOP	*EDGE OF PAVEMENT*
EOR	*ENGINEER OF RECORD*
ERCP	*ELLIPTICAL REINFORCED CONCRETE PIPE*
ESMT	*EASEMENT*
EVCS	*END VERTICAL CURVE STATION*
EVCE	*END VERTICAL CURVE ELEVATION*
EX	*EXISTING*
	F
FAC	*FLORIDA ADMINISTRATIVE CODE*
FBR	*FLORIDA BEARING RATIO*
FC	*FRICTION COURSE*
FDEP	*FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION*
FDOT	*FLORIDA DEPARTMENT OF TRANSPORTATION*
FFE	*FINISHED FLOOR ELEVATION*
FH	*FIRE HYDRANT*
FHWA	*FLORIDA HIGHWAY ADMINISTRATION*
FIG	*FIGURE*
FM	*FORCE MAIN*
FOC	*FACE OF CURB*
FS	*FLORIDA STATUTES*
FT	*FEET*
	G
GALV	*GALVANIZED*
GM	*GAS MAIN*
GV	*GATE VALVE*
	H
HDPE	*HIGH DENSITY POLYETHYLENE*
HP	*HIGH POINT*
	I
ID	*IDENTIFICATION*
INV	*INVERT*
INV EL	*INVERT ELEVATION*
IP	*IRON PIPE*
	K
K	*VERTICAL CURVE RATE OF CHANGE*
	L
L	*LENGTH*
LA	*LANDSCAPE ARCHITECT*
LBR	*LIMEROCK BEARING RATIO*
LDR	*LAND DEVELOPMENT REGULATION*
LF	*LINEAR FEET*
LP	*LOW POINT*
LT	*LEFT*
	M
MAX	*MAXIMUM*
ME	*MATCH EXISTING*
MH	*MANHOLE*
MIN	*MINIMUM*
MISC	*MISCELLANEOUS*
MUTCD	*MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES*
	N
N	*NORTH*
N-E	*NORTHING - EASTING*
N/A	*NOT APPLICABLE*
NAVD	*NORTH AMERICAN VERTICAL DATUM OF 1988*
NGVD	*NATIONAL GEODETIC VERTICAL DATUM OF 1929*
NO	*NUMBER*
NPDES	*NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM*
NTS	*NOT TO SCALE*
	O
OC	*ON CENTER*
OHW	*OVERHEAD WIRE*
ORB	*OFFICIAL RECORDS BOOK*
OSHA	*OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION*
	P
PAVT	*PAVEMENT*
PC	*POINT OF CURVATURE*
PCC	*POINT OF COMPOUND CURVE*
PERF	*PERFORATED*
PROP	*PROPOSED*
PT	*POINT OF TANGENCY*
PVC	*POLYVINYL CHLORIDE*
PVI	*POINT OF VERTICAL INTERSECTION*
	R
R	*RADIUS*
RCP	*REINFORCED CONCRETE PIPE*
RPM	*RAISED REFLECTIVE PAVEMENT MARKER*
RPZ	*REDUCED PRESSURE ZONE*
RT	*RIGHT*
RWM	*RECLAIMED WATER MAIN*
R/W	*RIGHT-OF-WAY*
	S
S	*SOUTH*
SAN	*SANITARY*
SHWE	*SEASONAL HIGH WATER ELEVATION*
SL	*SLOPE*
SP	*SUPERPAVE*
SR	*STATE ROAD*
SS	*SANITARY SEWER*
ST	*STORM*
STA	*STATION*
STD	*STANDARD*
	T
TCE	*TEMPORARY CONSTRUCTION EASEMENT*
TEMP	*TEMPORARY*
TOB	*TOP OF BANK*
TV	*TELEVISION*
TW	*TOP OF WALL*
TYP	*TYPICAL*
	U
USF	*UNITED STATES FOUNDRY*
USGS	*UNITED STATES GEOLOGICAL SURVEY*
UTIL	*UTILITY*
	V
V	*VERTICAL*
VC	*VERTICAL CURVE*
VCP	*VITRIFIED CLAY PIPE*
	W
W	*WEST*
W	*WATER*
W/	*WITH*
WM	*WATER MAIN*
WW	*WASTEWATER*
WWF	*WELDED WIRE FABRIC*

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. 17302.

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
SILT FENCE LINE
TREE BARRICADE LINE
EX. STRUCTURE OR BUILDING
PROPOSED BUILDING
PROPOSED ASPHALTIC PAVEMENT
PROPOSED CONCRETE PAVEMENT
PROPOSED DETECTABLE WARNING SURFACE
DIRECTIONAL TRAFFIC ARROW PER FDOT INDEX NO. 17346
WATERSHED DIVIDE
EX. ELEVATION CONTOUR
PROPOSED CONTOUR
EX. SPOT ELEVATION
PROPOSED SPOT ELEVATION
DIRECTION OF SURFACE DRAINAGE FLOW
PROPOSED SWALE LINE
EX. FENCE
PROPOSED FENCE
EX. TREE (SIZE & TYPE)
EX. TREE (TREE ID)
EX. TREE TO BE REMOVED (SIZE & TYPE)
EX. TREE TO BE REMOVED (TREE ID)
PROJECT BENCHMARK

STORMWATER

THE PROPOSED STORMWATER STRUCTURES DEPICTED BELOW ARE DRAWN PER FDOT SPECIFICATIONS AND TO SCALE WHEN SHOWN ON THE PLAN SHEETS.

EX. GRAVITY STORMWATER MAIN
PROPOSED GRAVITY STORMWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)
EX. STORMWATER MANHOLE
PROPOSED 48" DIA. STORMWATER MANHOLE PER FDOT INDEX. NO. 200 AND 201
PROPOSED CIRCULAR AREA DRAIN
PROPOSED SQUARE AREA DRAIN
PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO. 210 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 211 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 211 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 9 CURB INLET TOP PER FDOT INDEX NO. 214 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 233 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 233 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 232 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 234 (SEE PLANS FOR BOTTOM SPECIFICATION)
PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 260 (SEE PLANS FOR SIZE)
PROPOSED FLARED END SECTION PER FDOT INDEX NO. 270 (SEE PLANS FOR SIZE)
PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT INDEX NO. 272 (SEE PLANS FOR SIZE)
PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 273 (SEE PLANS FOR SIZE)
PROPOSED STORMWATER STRUCTURE ID TAG

POTABLE AND RECLAIMED WATER

EX. POTABLE WATER MAIN
PROPOSED POTABLE WATER MAIN
EX. RECLAIMED WATER MAIN
PROPOSED RECLAIMED WATER MAIN
11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
45° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
90° BEND W/ MECHANICALLY RESTRAINED JOINTS (POTABLE AND RCW)
TEE (POTABLE AND RCW)
CROSS (POTABLE AND RCW)
BLOWOFF ASSEMBLY (POTABLE AND RCW)
REDUCER (POTABLE AND RCW)
EX. GATE VALVE AND BOX (POTABLE AND RCW)
PROPOSED GATE VALVE AND BOX (POTABLE AND RCW)
EX. AIR RELEASE VALVE (POTABLE AND RCW)
PROPOSED AIR RELEASE VALVE (POTABLE AND RCW)
EX. FIRE HYDRANT ASSEMBLY
PROPOSED FIRE HYDRANT ASSEMBLY
PROPOSED SAMPLE POINT
EX. WATER METER (POTABLE AND RCW)
PROPOSED POTABLE WATER METER
PROPOSED POTABLE WATER BACK FLOW PREVENTER
PROPOSED RECLAIMED WATER METER
EX. WATER WELL
EX. HOSE BIB (POTABLE AND RECLAIMED)
PROPOSED HOSE BIB (POTABLE AND RECLAIMED)
PROPOSED FITTING ID TAG (POTABLE AND RECLAIMED)

WASTEWATER

EX. GRAVITY WASTEWATER MAIN
PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)
EX. WASTEWATER FORCE MAIN
PROPOSED WASTEWATER FORCE MAIN
EX. WASTEWATER MANHOLE
PROPOSED WASTEWATER MANHOLE
EX. WASTEWATER CLEANOUT
PROPOSED WASTEWATER CLEANOUT
PROPOSED WASTEWATER GREASE TRAP
PROPOSED WASTEWATER MANHOLE ID
11.25° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
22.5° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
45° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
90° BEND W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
WYE W/ MECHANICALLY RESTRAINED JOINTS (WW FORCE MAIN)
EX. PLUG VALVE AND BOX (WW FORCE MAIN)
PROPOSED PLUG VALVE AND BOX (WW FORCE MAIN)
EX. AIR RELEASE VALVE (WW FORCE MAIN)
PROPOSED AIR RELEASE VALVE (WW FORCE MAIN)

MISCELLANEOUS UTILITIES

THE PROPOSED UTILITIES BELOW ARE DESIGN BY OTHERS AND ARE DEPICTED FOR COORDINATION PURPOSES ONLY. REFER TO PLANS BY OTHERS FOR EXACT LOCATIONS, DIMENSION, AND DETAILS.

PROPOSED AT&T LINE
EX. BURIED CABLE LINE
PROPOSED BURIED CABLE LINE
EX. BURIED TELEPHONE LINE
PROPOSED TELEPHONE LINE
EX. CABLE TELEVISION LINE
PROPOSED CABLE/TELEVISION LINE
EX. FIBER OPTIC LINE
EX. UNDERGROUND TELEPHONE LINE
EX. TELEPHONE PEDESTAL
EX. TELEVISION/CABLE PEDESTAL
EX. CHILLED WATER MAIN
PROPOSED CHILLED WATER MAIN
EX. FIRE MAIN
PROPOSED FIRE MAIN
EX. IRRIGATION LINE
PROPOSED IRRIGATION LINE
EX. STEAM LINE
PROPOSED STEAM LINE
PROPOSED CLAY ELECTRIC LINE
EX. ELECTRIC LINE
PROPOSED ELECTRIC LINE
EX. ENERGY LINE
PROPOSED PRIVATE LIGHTING LINE
EX. OVERHEAD WIRE LINE
EX. UNDERGROUND ELECTRIC LINE
EX. LIGHT
EX. UTILITY POLE
EX. UTILITY POLE
EX. WOOD POWER POLE
EX. GUY ANCHOR
PROPOSED TRANSFORMER
EX. GAS LINE
PROPOSED GAS LINE
EX. GAS MARKER
EX. GAS MARKER

NOTES:
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.

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	N/A
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

LEGEND

SHEET NUMBER

C0.11

100% CONSTRUCTION DOCUMENTS

Tools: ThomasC Plot Date: Jan 04,2017 8:18am Filename: L:\2016\16-0111\Engineering\CHWA\Production Files\16-0111 XT.dwg

I. INTRODUCTION

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

COUNTY:	*ALACHUA COUNTY, FLORIDA*
SECTION, TOWNSHIP, RANGE:	*SECTION 13, TOWNSHIP 8 SOUTH, RANGE 18 EAST*
COUNTY PARCEL NO.:	*03191-010-001*
STREET ADDRESS:	*11900 NW US 441 HWY, ALACHUA , FLORIDA 32615*
PROJECT AREA:	*±14.53 ACRES*
SITE LOCATION MAP:	*SEE COVER SHEET OF CONSTRUCTION DRAWINGS*

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROPOSED DEVELOPMENT IS THE CONSTRUCTION OF THREE (3) ±40,000 SF RESEARCH BUILDINGS ASSOCIATED PAVEMENT FOR DRIVEWAYS AND PARKING, SIDEWALKS, UTILITIES, AND STORMWATER MANAGEMENT FACILITY(S). THE PROJECT SITE IS LOCATED AT 11900 NW US 441 HWY, ALACHUA, FLORIDA. THE PROJECT SITE TOTAL AREA IS APPROXIMATELY 14.53 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 FDOT INDEX NO. 102 AND THESE PLANS.*
2. *THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.*
3. *ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.*
4. *THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.*
5. *IF SUITABLE, THE EXCAVATED SOIL FROM THE FACILITY(S) 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.*
6. *THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.*
7. *THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.*
8. *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).*
9. *THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF ASPHALT.*
10. *UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.*
11. *UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING SYSTEM, THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND BE EXCAVATED A MINIMUM OF SIX INCHES BELOW THE DESIGN BOTTOM ELEVATION AND REPLACED WITH FILL HAVING A MINIMUM PERMEABILITY RATE OF 20 FEET/DAY WITH A MAXIMUM OF 5% SOIL FINES PASSING THE NO. 200 SIEVE. THE BOTTOM SHALL BE SCARIFIED AND STABILIZED ACCORDING TO THESE PLANS. ONE COMPLETED, NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY(S).*
12. *ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THESE PLANS. GRASS SEEDING RATES AND MIXTURES SHALL BE PER THE FDOT INDEX NO. 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.*

C. SITE DEVELOPMENT DATA:

TOTAL PROJECT SITE AREA:	*14.53 ACRES*
TOTAL SITE AREA TO BE DISTURBED:	*10.92 ACRES*
TOTAL IMPERVIOUS AREA (AS SHOWN IN CONSTRUCTION DRAWINGS):	*6.49 ACRES*
TOTAL EXISTING DETENTION VOLUME (OFFSITE):	*61.32 ACRE-FEET*
TOTAL OPEN AREA:	*4.43 ACRES*

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF ARREDONDO AND KENDRICK FINE SAND. UNIVERSAL ENGINEERING SERVICES. CONDUCTED A GEOTECHNICAL EXPLORATION OF THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) LOCATION DATED JANUARY 2008. THE INVESTIGATION REVEALED THAT THE PROJECT SITE'S SURFACE SOILS HAVE THE FOLLOWING CHARACTERISTICS:

DEPTH TO EFFECTIVE OR MOBILIZED AQUIFER:	*62.68 FEET*
DEPTH OF SEASONAL HIGH WATER TABLE:	*65.68 FEET*
HORIZONTAL HYDRAULIC CONDUCTIVITY:	*40 FEET/DAY*
UNSATURATED VERTICAL INFILTRATION:	*25 FEET/DAY*

DESIGN PERCOLATION RATES FOR THE STORMWATER MANAGEMENT FACILITY(S) WERE DETERMINED BASED ON LABORATORY PERMEABILITY TEST RESULTS FROM BORING SAMPLES TAKEN WITHIN THE LIMITS OF THE STORMWATER MANAGEMENT FACILITY(S).

THE STORMWATER MANAGEMENT FACILITY(S) WAS DESIGNED TO PROVIDE WATER QUALITY TREATMENT OF THE STORMWATER RUNOFF RESULTING FROM THE POST-DEVELOPMENT SITE UNDER 100-YEAR CRITICAL STORM EVENT RAINFALL CONDITIONS. THE STORMWATER POLLUTION PREVENTION PLAN (C0.21) DEPICTS THE POST-DEVELOPMENT WATERSHED(S) LIMITS AND THE TABLE BELOW SUMMARIZES EACH WATERSHED.

WATERSHED ID	*POST DEVELOPMENT AREA (ACRES)*	*POST DEVELOPMENT RUNOFF FACTOR (CN)*	*POST DEVELOPMENT IMPERVIOUS AREA (ACRES)*	*STORMWATER MANAGEMENT FACILITY TYPE*	*FACILITY DETENTION CAPACITY (ACRE-FEET)*	*100-YEAR FLOOD ELEVATION (FT)*
EX-1	*72.04*	*62.4*	*13.10*	*DRY RETENTION*	*61.32*	*72.94*

E. SITE MAP

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

F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY

THE STORMWATER MANAGEMENT FACILITY 1 HAS NOT OUTFALL AS IT IS SELF CONTAINED AND DESIGNED TO CONTAIN THE DESIGN STORM EVENTS WITHOUT OFF-SITE DISCHARGE

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 QUALITY 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 (C0.21) 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 (C0.21). 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 (C0.21). 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. GRASS SEEDING RATES AND MIXTURES SHALL BE PER THE FDOT INDEX NO. 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

B. STRUCTURE PRACTICES

AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), AN EXISTING, OFFSITE STORMWATER MANAGEMENT SYSTEM SERVES THIS PROJECT AND IS COMPRISED OF A STORMWATER CONVEYANCE SYSTEM THAT SERVES A DRY RETENTION FACILITY. 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 FDOT INDEX NO. 102 OR PER DETAILS PROVIDED ON SHEET C0.21 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," AN EXISTING SMF HAS BEEN CONSTRUCTED PRIOR TO CLEARING AND GRUBBING OUTSIDE OF THE SMF(S) AREAS AND CONSTRUCTION OF THE PERMANENT PAVED AREAS. THE TOTAL CONTRIBUTING DRAINAGE AREA TO THE STORMWATER MANAGEMENT SYSTEM IS APPROXIMATELY 30.45 ACRES AND WILL CONSIST OF APPROXIMATELY 10.92 ACRES OF DISTURBED CONSTRUCTION AREA. THEREFORE, NO ADDITIONAL SEDIMENT TRAP BASINS ARE NECESSARY TO PROVIDE SEDIMENT STORAGE ON-SITE DURING CONSTRUCTION. AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), THE PROPOSED 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 SMF(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 POLLUTION PREVENTION PLAN (C0.21) 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 (C0.21) 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 INDEX NO. 104, 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.

VII. APPROVED STATE AND LOCAL PLANS

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

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

VIII. CONSTRUCTION ACTIVITY DISCHARGES

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 ORIGINAL PLAN.

X. ALTERNATIVE PERMIT REQUIREMENTS

NO ALTERNATIVE PERMIT REQUIREMENTS ARE REQUESTED.

XI. MAINTENANCE

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES 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 SMF(S) DO 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 CONCEPT DEVELOPMENT INC.

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 PERMIT.

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 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.

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.

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. *ELIMINATION 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 ELIMINATED.*
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
2600 BLAIR STONE ROAD
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: Foundation Park Phase 2
City of Alachua, 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 gathered 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 violations.

NAME (RESPONSIBLE AUTHORITY) _____ *DATE* _____

Contractor/Subcontractor Certification Statement
Stormwater Pollution Prevention Plan

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: Foundation Park Phase 2
City of Alachua, Florida

Contracting Firm: _____
NAME _____
ADDRESS _____
TELEPHONE NUMBER _____

I 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 Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder.

NAME _____ *TITLE* _____
ADDRESS _____ *DATE* _____

Stormwater Pollution Prevention Plan
Inspection Report

Inspector: _____ Date: _____ Time: _____

Date of last rainfall: _____ Amount 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

LOCATION/TYPE	CONDITION	MAINTENANCE REQUIRED

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

Recommended Actions: _____

Results of Previous Recommended Actions: _____

Other Control

	CONDITION		
	GOOD	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: _____

Results of Previous Recommended Actions: _____

Inspector Signature: _____ Date: _____ Time: _____

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.

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	N/A
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

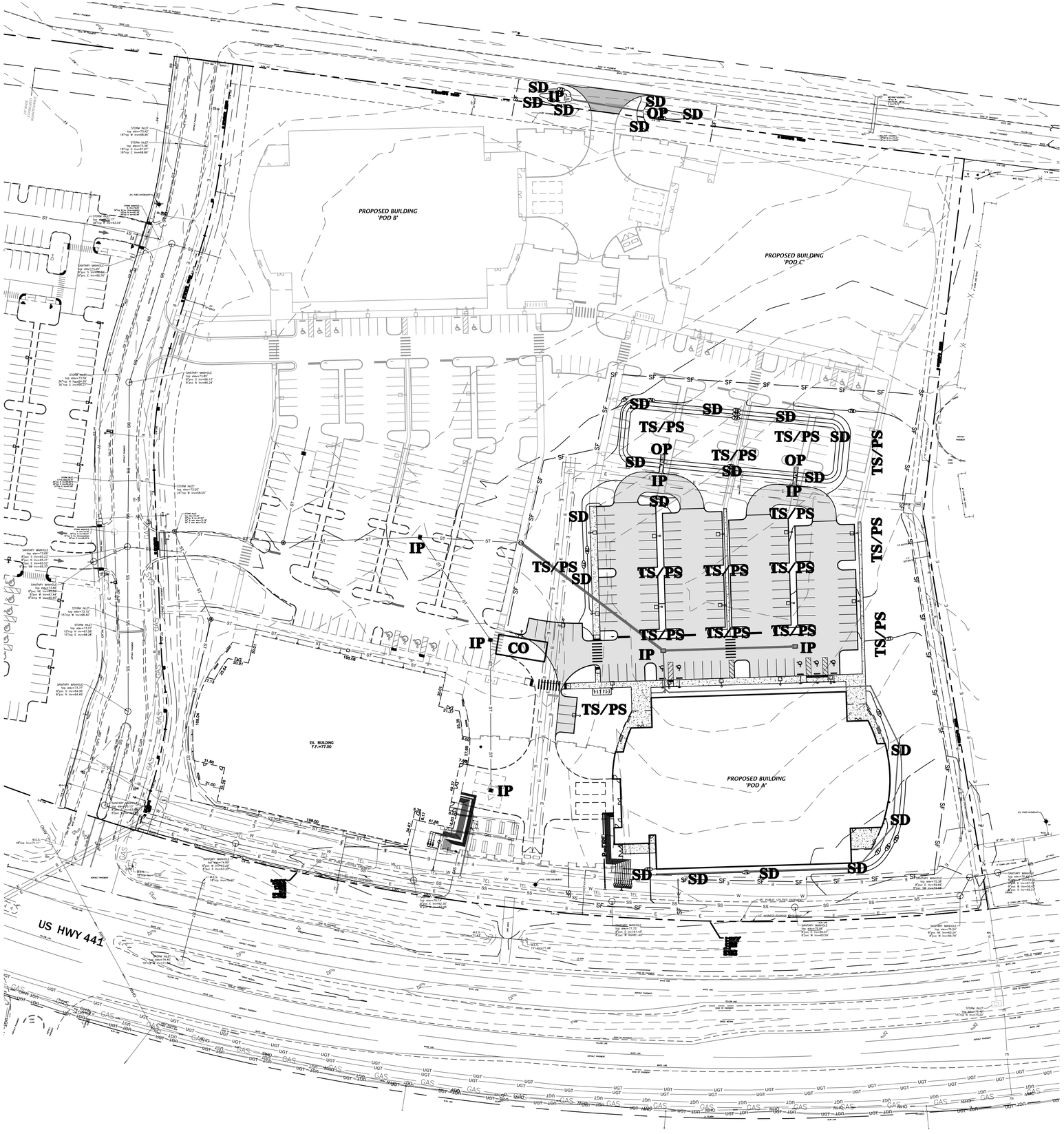
STORMWATER POLLUTION PREVENTION NOTES

SHEET NUMBER

C0.20

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:21am Filename: L:\2016\16-0111\Engineering\DWGs\Production Files\16-0111 SWPP.dwg

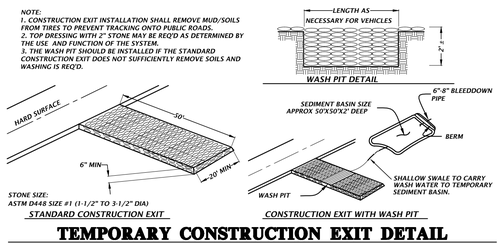


N

GRAPHIC SCALE

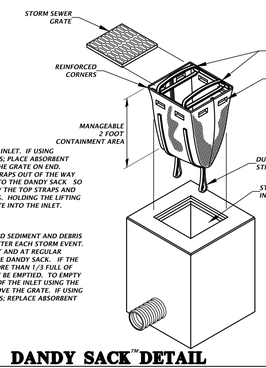
0 25 50 100

NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.



TEMPORARY CONSTRUCTION EXIT DETAIL

NTS



INSTALLATION:

REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY SACK. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

DANDY SACK™ DETAIL

NTS

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

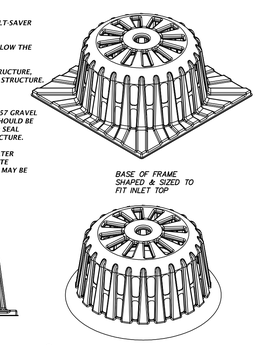
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

3. SLIDE THE FILTER OVER THE FRAME.

4. FILL THE FILTER POCKETS WITH SOIL. #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



SILT-SAVER® DETAIL

NTS

STORMWATER POLLUTION PREVENTION LEGEND

TS	= TEMPORARY SEEDING
PS	= PERMANENT SEEDING
ML	= MULCHING
SD	= SOD STABILIZATION
SF	= SILT BARRIER
TB	= TREE BARRIER
IP	= INLET PROTECTION
OP	= OUTLET PROTECTION
CO	= CONSTRUCTION ENTRANCE/EXIT

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=50'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

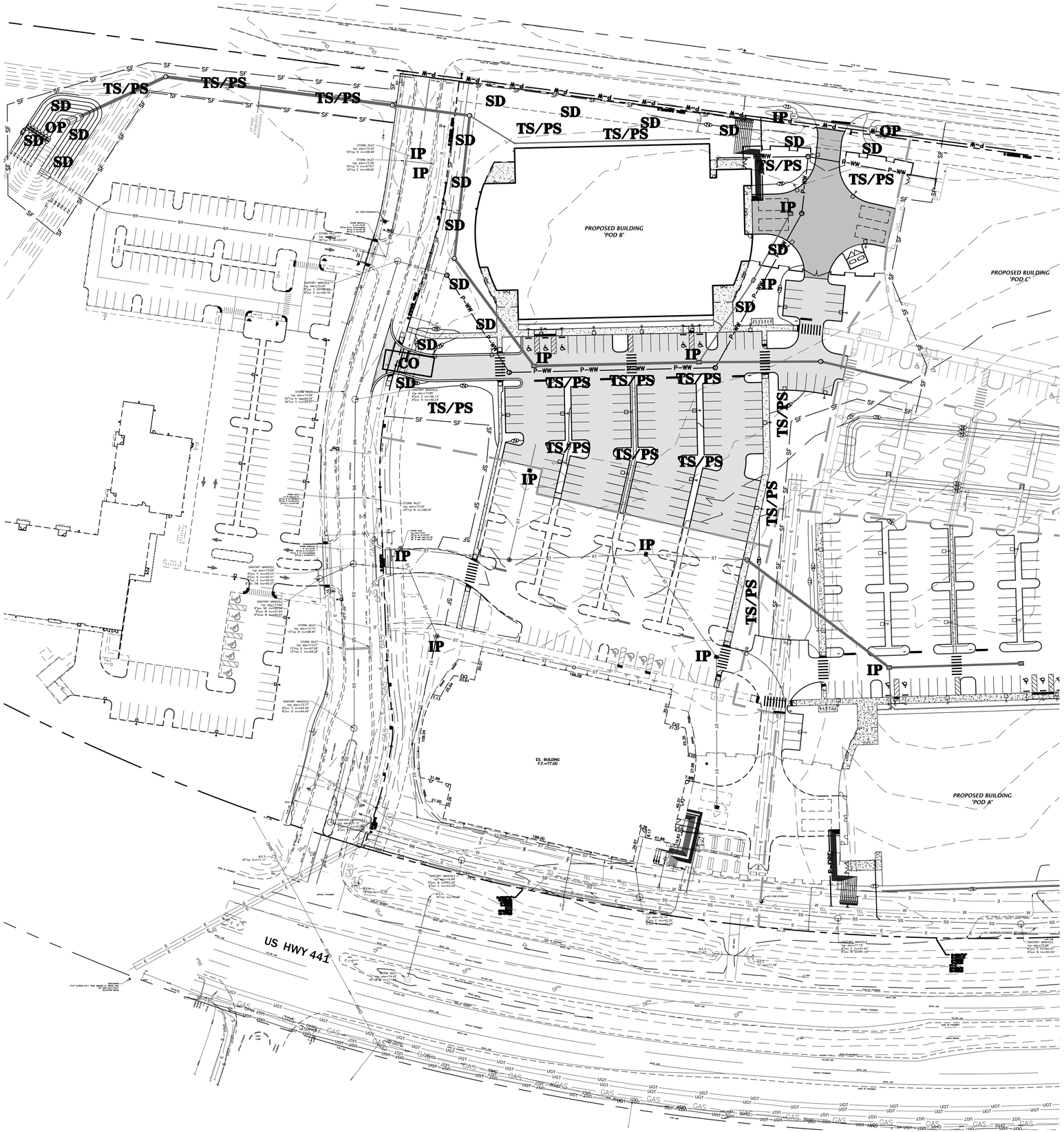
STORMWATER POLLUTION PREVENTION PLAN 'POD A'

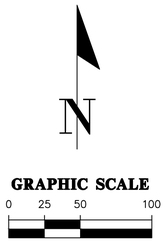
SHEET NUMBER

C0.21

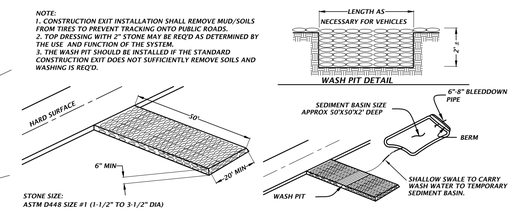
100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Mar 12,2019 7:35am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 SWPP.dwg



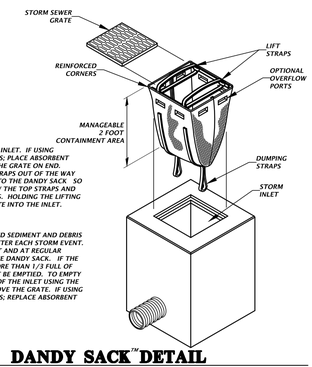


NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.



TEMPORARY CONSTRUCTION EXIT DETAIL

NTS



INSTALLATION:

REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY SACK. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

DANDY SACK™ DETAIL

NTS

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

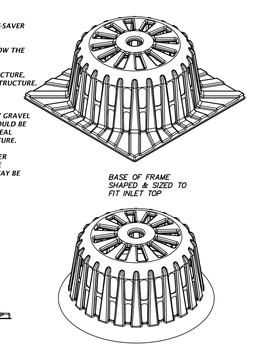
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

3. SLIDE THE FILTER OVER THE FRAME.

4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



SILT-SAVER® DETAIL

NTS

STORMWATER POLLUTION PREVENTION LEGEND

TS	= TEMPORARY SEEDING
PS	= PERMANENT SEEDING
ML	= MULCHING
SD	= SOD STABILIZATION
SF	= SILT BARRIER
TB	= TREE BARRIER
IP	= INLET PROTECTION
OP	= OUTLET PROTECTION
CO	= CONSTRUCTION ENTRANCE/EXIT

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG
FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=50'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

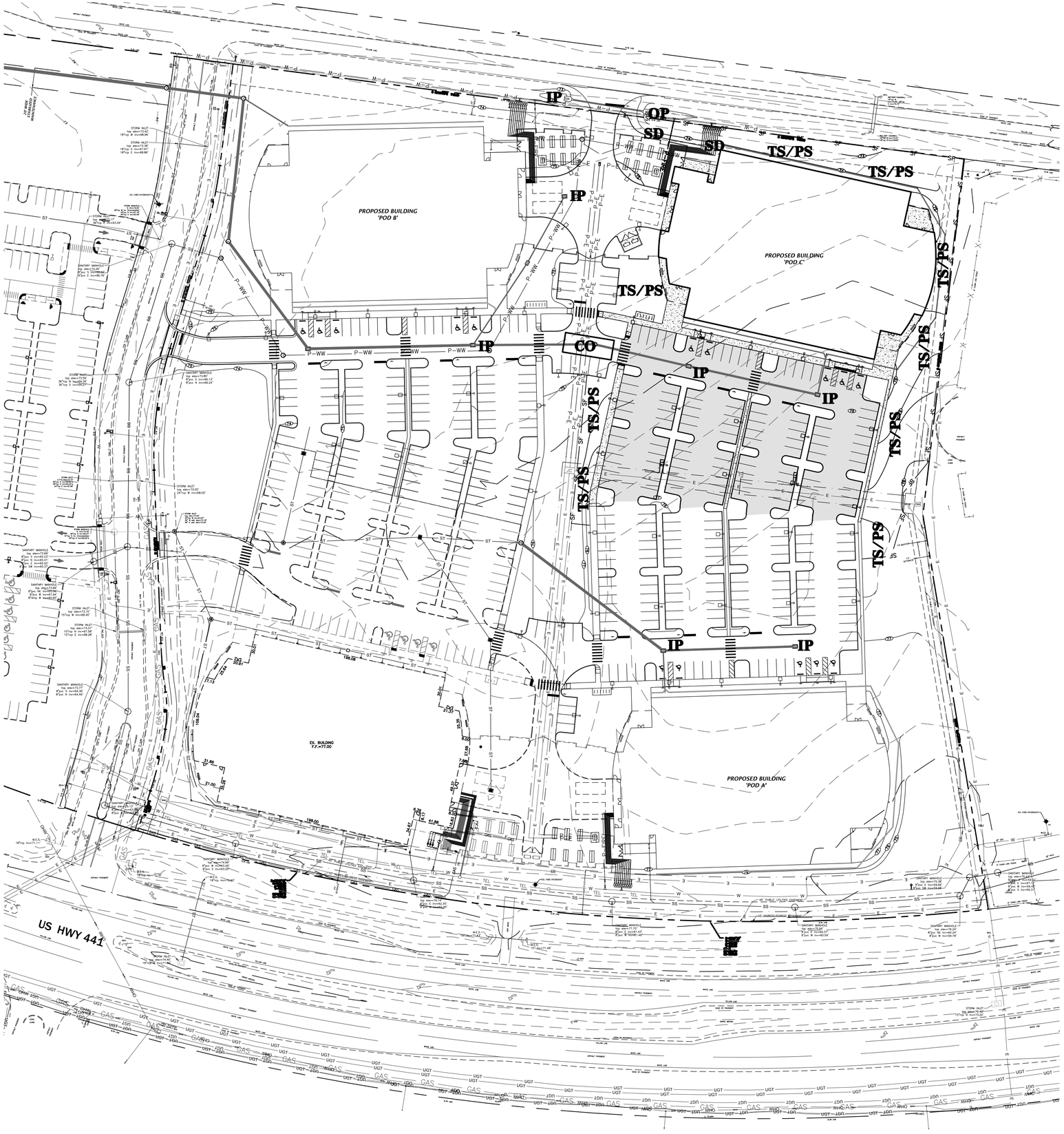
STORMWATER POLLUTION PREVENTION PLAN 'POD B'

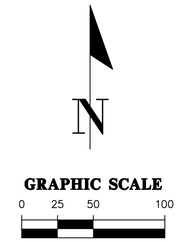
SHEET NUMBER

C0.22

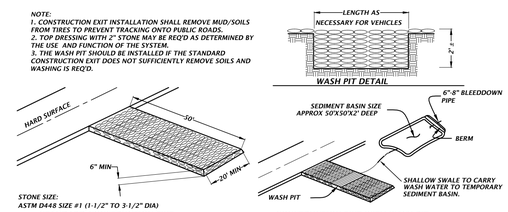
100% CONSTRUCTION DOCUMENTS

Tech: Thomas3C Plot Date: Mar 12,2019 7:35am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 SWPP.dwg



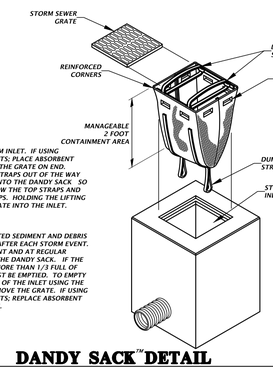


NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE SOILS AND WASHING IS REQ'D.



TEMPORARY CONSTRUCTION EXIT DETAIL

NTS



INSTALLATION:

REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE:

REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY SACK. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

DANDY SACK™ DETAIL

NTS

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

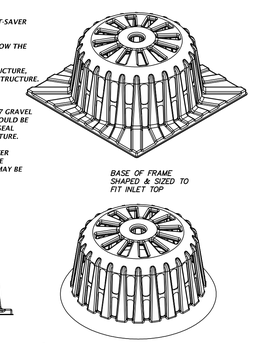
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

3. SLIDE THE FILTER OVER THE FRAME.

4. FILL THE FILTER POCKETS WITH SOIL. #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.

5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.



SILT-SAVER® DETAIL

NTS

STORMWATER POLLUTION PREVENTION LEGEND

TS	= TEMPORARY SEEDING
PS	= PERMANENT SEEDING
ML	= MULCHING
SD	= SOD STABILIZATION
SF	= SILT BARRIER
TB	= TREE BARRIER
IP	= INLET PROTECTION
OP	= OUTLET PROTECTION
CO	= CONSTRUCTION ENTRANCE/EXIT

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=50'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

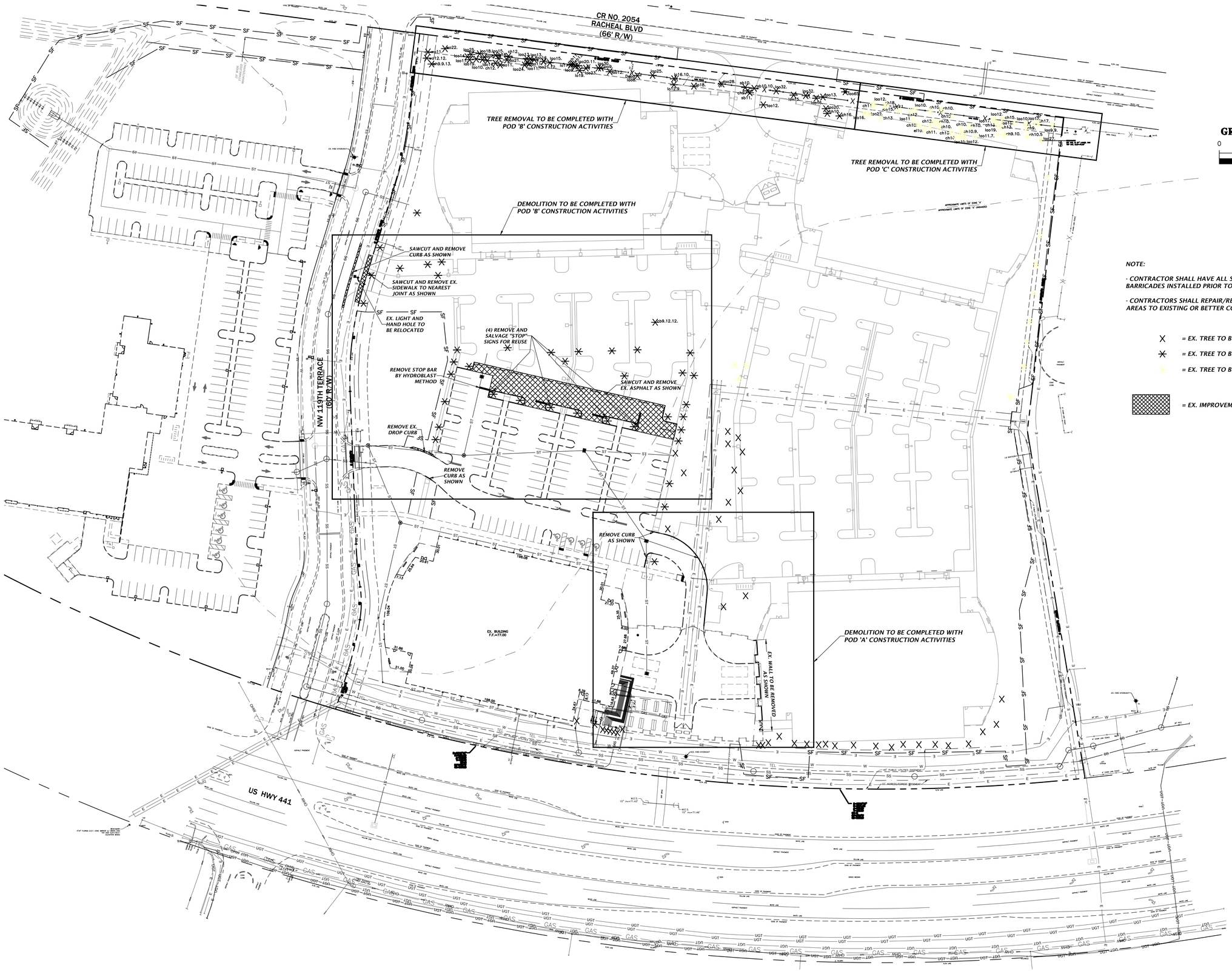
STORMWATER POLLUTION PREVENTION PLAN 'POD C'

SHEET NUMBER

C0.23

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Mar 12,2019 7:35am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 SWPP.dwg



NOTE:

- CONTRACTOR SHALL HAVE ALL SILT FENCE & TREE BARRICADES INSTALLED PRIOR TO ANY SITE WORK.

- CONTRACTORS SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING OR BETTER CONDITION.

X = EX. TREE TO BE REMOVED WITH POD A

✳ = EX. TREE TO BE REMOVED WITH POD B

✳ = EX. TREE TO BE REMOVED WITH POD B

= EX. IMPROVEMENTS TO BE REMOVED

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA
CA-5075

DANIEL H. YOUNG

FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=50'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

DEMOLITION AND TREE PROTECTION PLAN

SHEET NUMBER

C0.30

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Mar 12,2019 7:34am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 DM.dwg

N

GRAPHIC SCALE

0 25 50 100

FAR CALCULATION	
PHASE/POD	FAR
PHASE 1	0.07
POD A	0.07
POD B	0.07
POD C	0.07
TOTAL	0.28

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG
FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=50'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

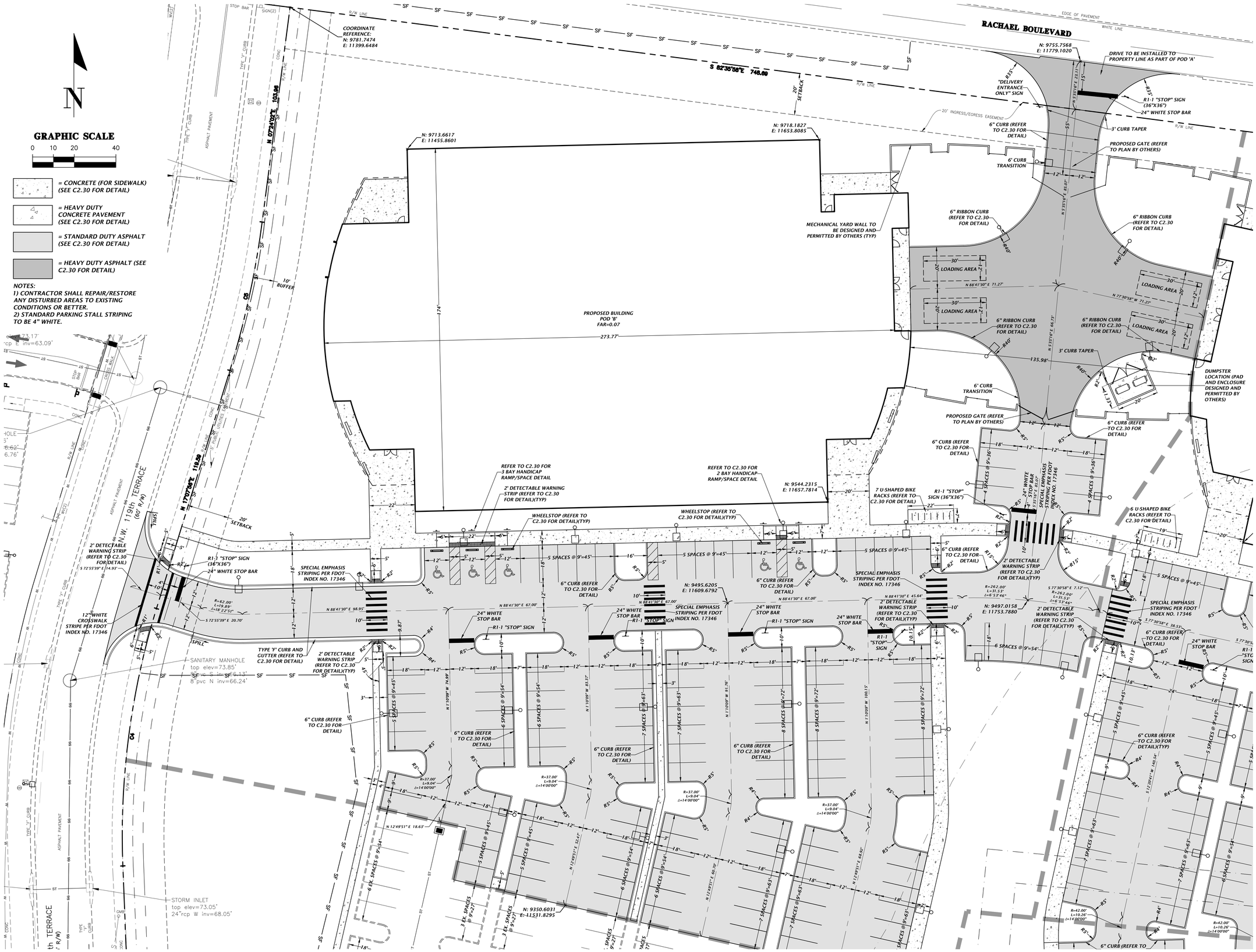
MASTER SITE PLAN

SHEET NUMBER

C1.00

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Mar 12,2019 7:56am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 MSP.dwg



RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

FL PE No. 70780

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=20'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

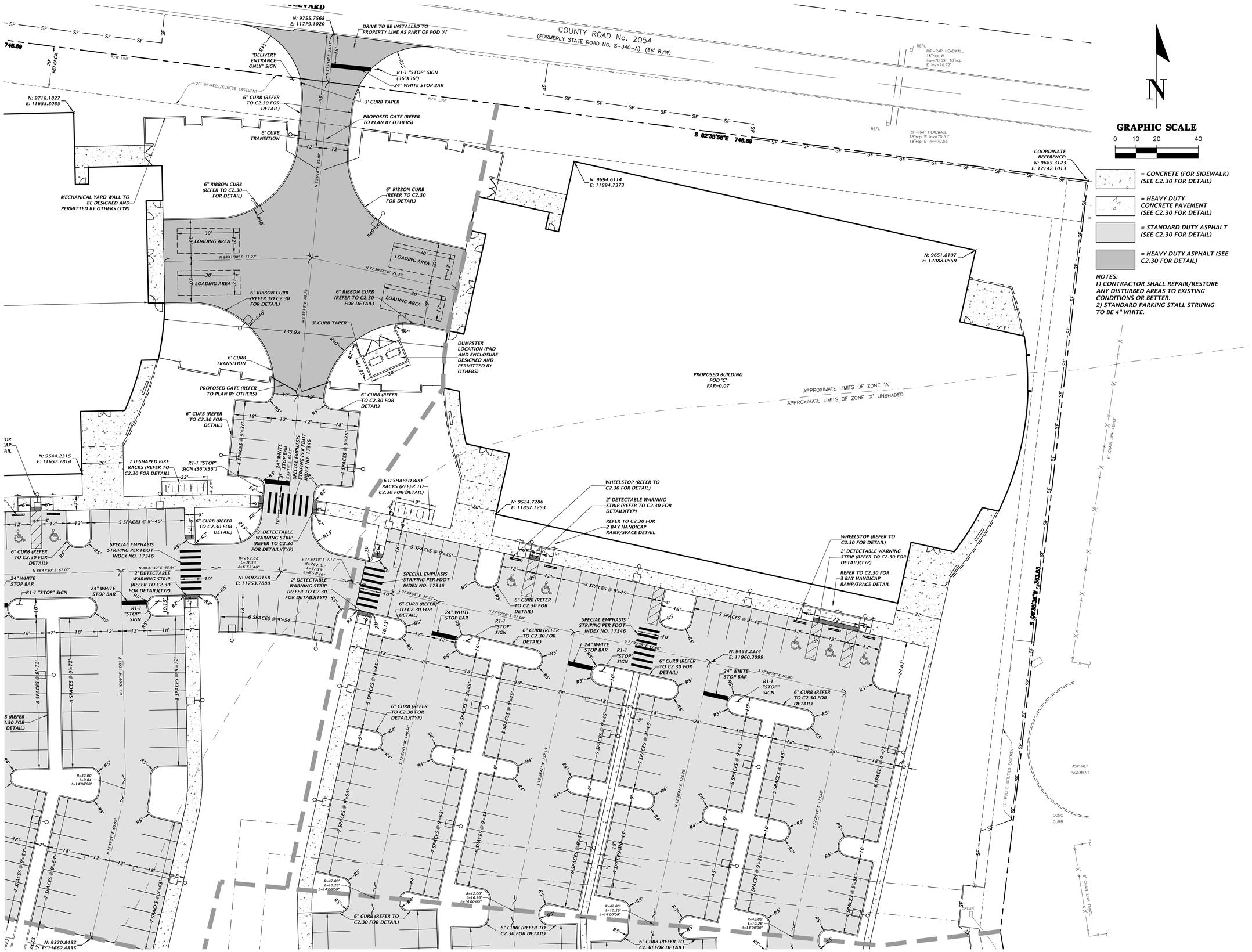
DETAILED HORIZONTAL CONTROL AND SITE PLAN

SHEET NUMBER

C1.10

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Mar 25,2019 9:23am Filename: L:\2016\16-0111\Engineering\Office\Production Files\16-0111 SP.dwg



GRAPHIC SCALE

0 10 20 40

= CONCRETE (FOR SIDEWALK) (SEE C2.30 FOR DETAIL)

= HEAVY DUTY CONCRETE PAVEMENT (SEE C2.30 FOR DETAIL)

= STANDARD DUTY ASPHALT (SEE C2.30 FOR DETAIL)

= HEAVY DUTY ASPHALT (SEE C2.30 FOR DETAIL)

NOTES:
1) CONTRACTOR SHALL REPAIR/RESTORE ANY DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
2) STANDARD PARKING STALL STRIPING TO BE 4" WHITE.

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA
CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=20'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

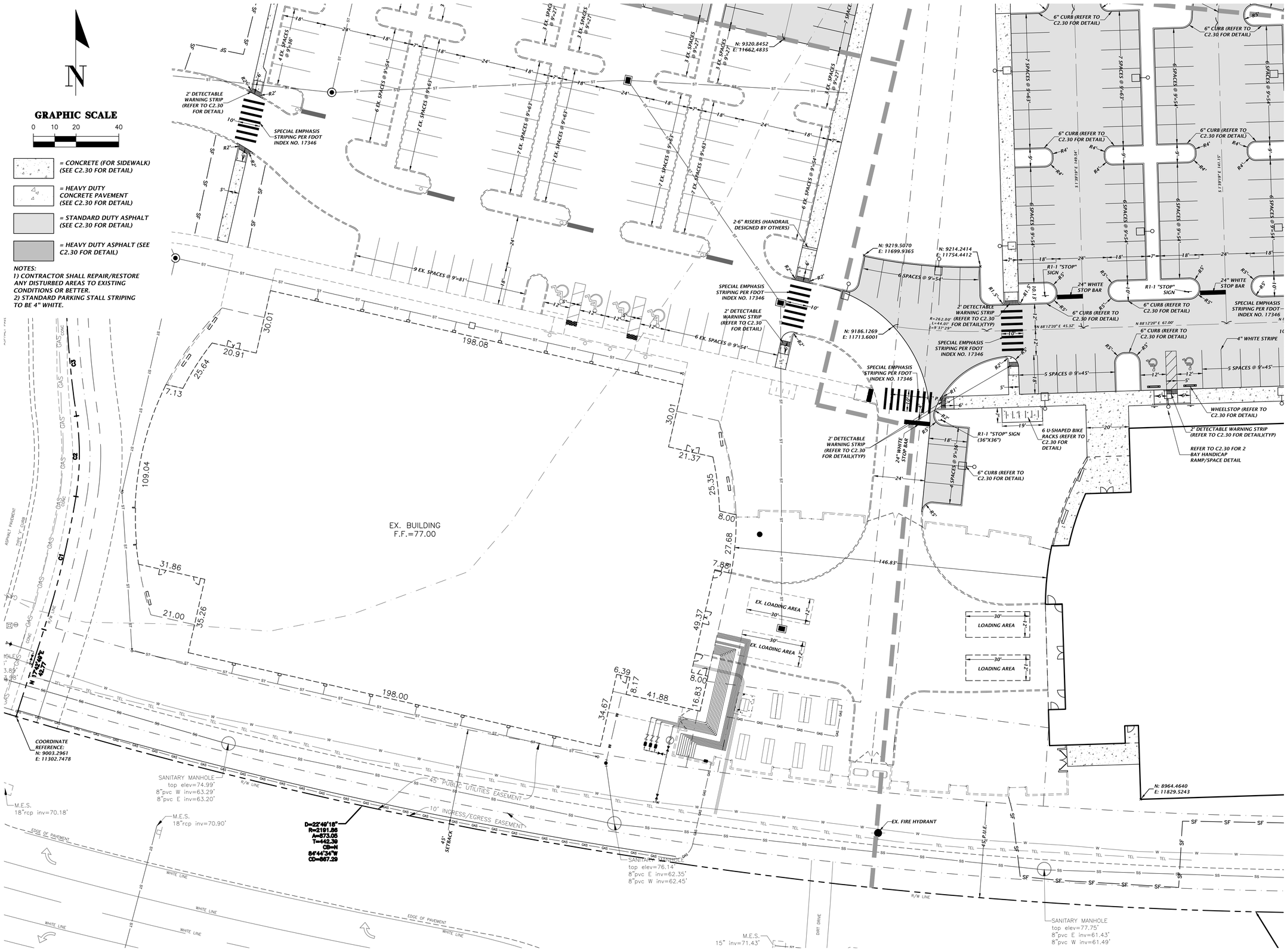
DETAILED HORIZONTAL CONTROL AND SITE PLAN

SHEET NUMBER

C1.11

100% CONSTRUCTION DOCUMENTS

Tech: ThomasD Plot Date: Jan 04,2017 8:24am Filename: L:\2016\16-0111\Engineering\CHWJA\Production Files\16-0111 SP.dwg



Tech: ThomasC Plot Date: Jan 04,2017 8:25am Filename: L:\2016\16-0111\Engineering\CHWJ\Production Files\16-0111 EP.dwg

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA
CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=20'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

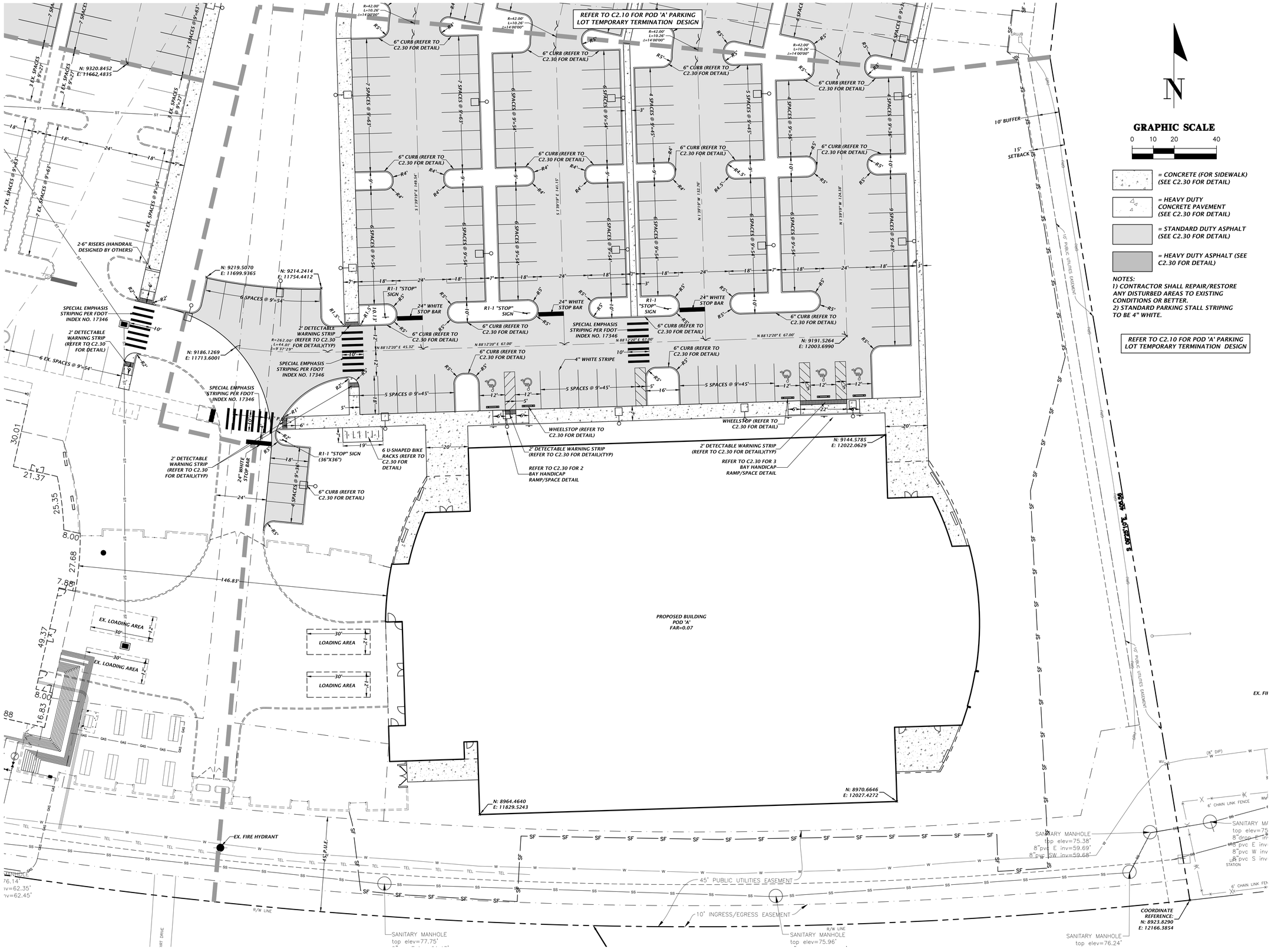
© 2016 RS&H, INC.

DETAILED HORIZONTAL CONTROL AND SITE PLAN

SHEET NUMBER

C1.12

100% CONSTRUCTION DOCUMENTS



RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=20'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

DETAILED HORIZONTAL CONTROL AND SITE PLAN

SHEET NUMBER

C1.13

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:23am Filename: L:\2016\16-0111\Engineering\CHWCA\Production Files\16-0111 SP.dwg

STORMWATER STRUCTURE TABLE

STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	NORTHING & EASTING
S-1	PEDESTRIAN RATED MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	76.58'	68.40' SE	N: 9295.57 E: 11692.00
S-2	TYPE 'F' STRUCTURE WITH 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 233	75.50'	68.76' NW 68.76' E 68.90' S	N: 9186.28 E: 11836.32
S-3	TYPE 'F' INLET PER FDOT INDEX NO. 233	72.48'	69.23' W	N: 9190.48 E: 11970.26
S-4	18" MITERED END SECITON PER FDOT INDEX NO. 272	N/A	71.48' E	N: 9746.80 E: 11735.99
S-5	18" MITERED END SECITON PER FDOT INDEX NO. 272	N/A	71.30' W	N: 9732.42 E: 11823.44
S-6	36" MITERED END SECITON PER FDOT INDEX NO. 272	N/A	61.00' NE	N: 9739.91 E: 11001.93
S-6A	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	73.00'	61.27' SW 61.27' E	N: 9786.28 E: 11101.92
S-7	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.50'	61.85' W 61.85' E	N: 9757.36 E: 11332.18
S-8	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.50'	62.05' W 62.05' S 67.00' SE	N: 9746.78 E: 11410.39
S-9	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.40'	62.34' N 62.34' SE	N: 9601.63 E: 11394.88
S-10	TYPE 'F' INLET PER FDOT INDEX NO. 233 WITH 72"Ø TYPE 'J' PER FDOT INDEX NO. 200 & 201	73.16'	62.61' NW 62.61' E	N: 9492.62 E: 11475.71
S-11	TYPE 'F' INLET PER FDOT INEX NO. 233 W/ 60"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	73.11'	62.94' W 63.02' NE 62.95' E	N: 9496.38 E: 11643.13
S-12	TYPE 'C' INLET PER FDOT INDEX NO. 232	74.25'	67.45' SW 67.45' NE	N: 9579.73 E: 11698.38
S-13	TYPE 'F' INLET PER FDOT INDEX NO. 233	73.90'	69.00' SW	N: 9647.34 E: 11736.01
S-14	MANHOLE PER FOT INDEX NO. 200 & 201	74.33'	63.20' W 63.20' E	N: 9497.09 E: 11766.89
S-15	TYPE 'F' INLET PER FDOT INDEX NO. 233	73.76'	63.39' W 63.39' E	N: 9474.95 E: 11862.23
S-16	TYPE 'F' INLET PER FDOT INDEX NO. 233	73.58'	63.65' W 66.00' N	N: 9445.98 E: 11993.06

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=50'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

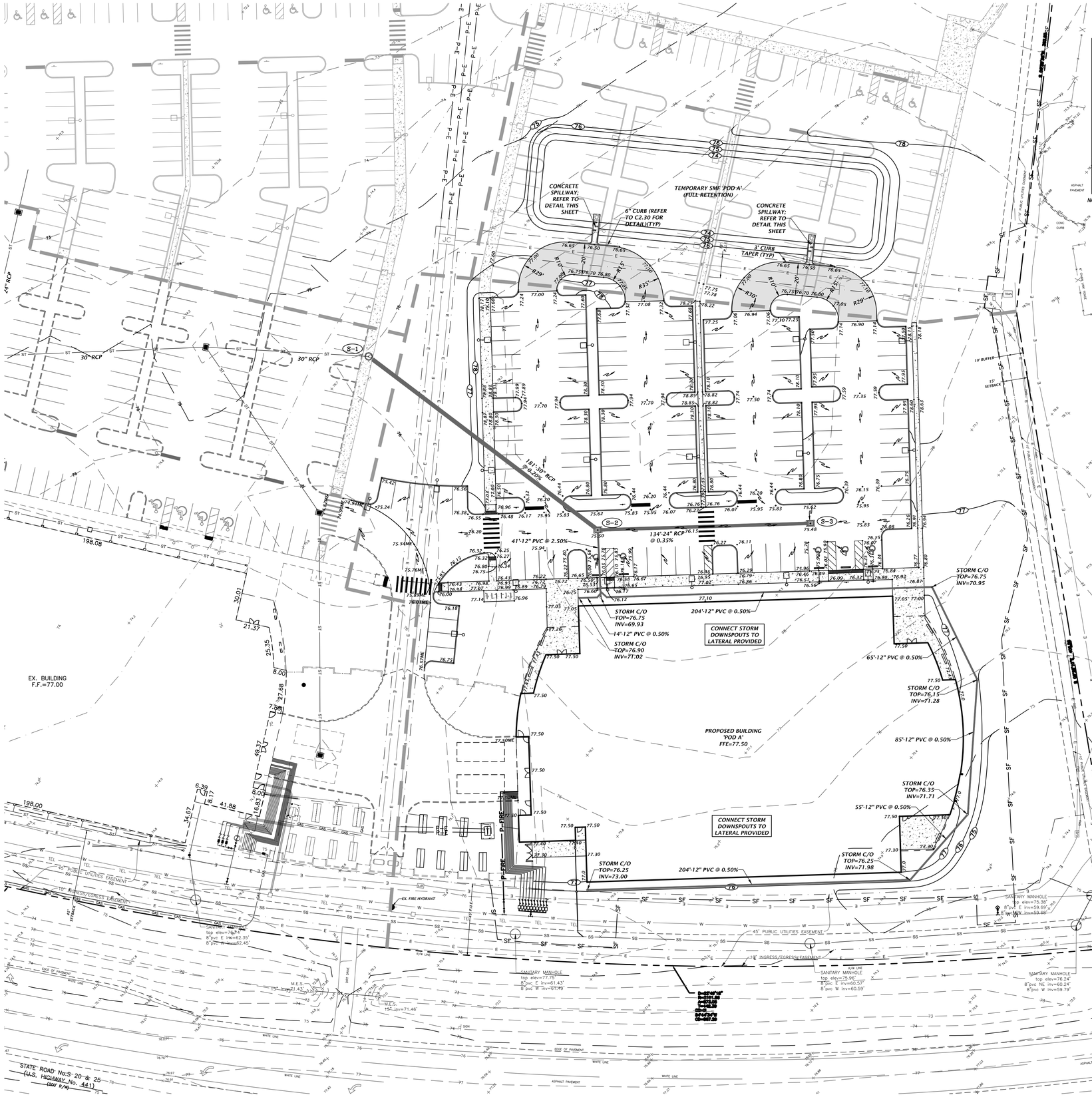
MASTER GRADING PLAN

SHEET NUMBER

C2.00

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:28am Filename: L:\2016\16-0111\Engineering\CHWcx\Production Files\16-0111 MPC.dwg



STORMWATER STRUCTURE TABLE

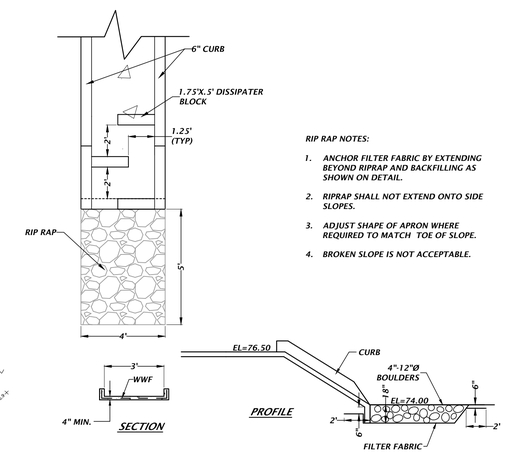
STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	NORTHING & EASTING
S-1	PEDESTRIAN RATED MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	76.58'	68.40' SE	N: 9295.57 E: 11692.00
S-2	TYPE 'F' STRUCTURE WITH 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 233	75.50'	68.76' NW 68.76' E 68.90' S	N: 9186.28 E: 11836.32
S-3	TYPE 'F' INLET PER FDOT INDEX NO. 233	72.48'	69.23' W	N: 9190.48 E: 11970.26
S-4	18" MITERED END SECITON PER FDOT INDEX NO. 272	N/A	71.48' E	N: 9746.80 E: 11735.99
S-5	18" MITERED END SECITON PER FDOT INDEX NO. 272	N/A	71.30' W	N: 9732.42 E: 11823.44

NOTE: REFER TO C2.11 FOR DESIGN OF S-4 AND S-5 (STRUCTURES TO BE INSTALLED WITH POD 'A').

N

GRAPHIC SCALE

0 15 30 60



RIP RAP NOTES:

1. ANCHOR FILTER FABRIC BY EXTENDING BEYOND RIPRAP AND BACKFILLING AS SHOWN ON DETAIL.
2. RIPRAP SHALL NOT EXTEND ONTO SIDE SLOPES.
3. ADJUST SHAPE OF APRON WHERE REQUIRED TO MATCH TOE OF SLOPE.
4. BROKEN SLOPE IS NOT ACCEPTABLE.

TYPICAL CONCRETE SPILLWAY DETAIL

NTS

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=30'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

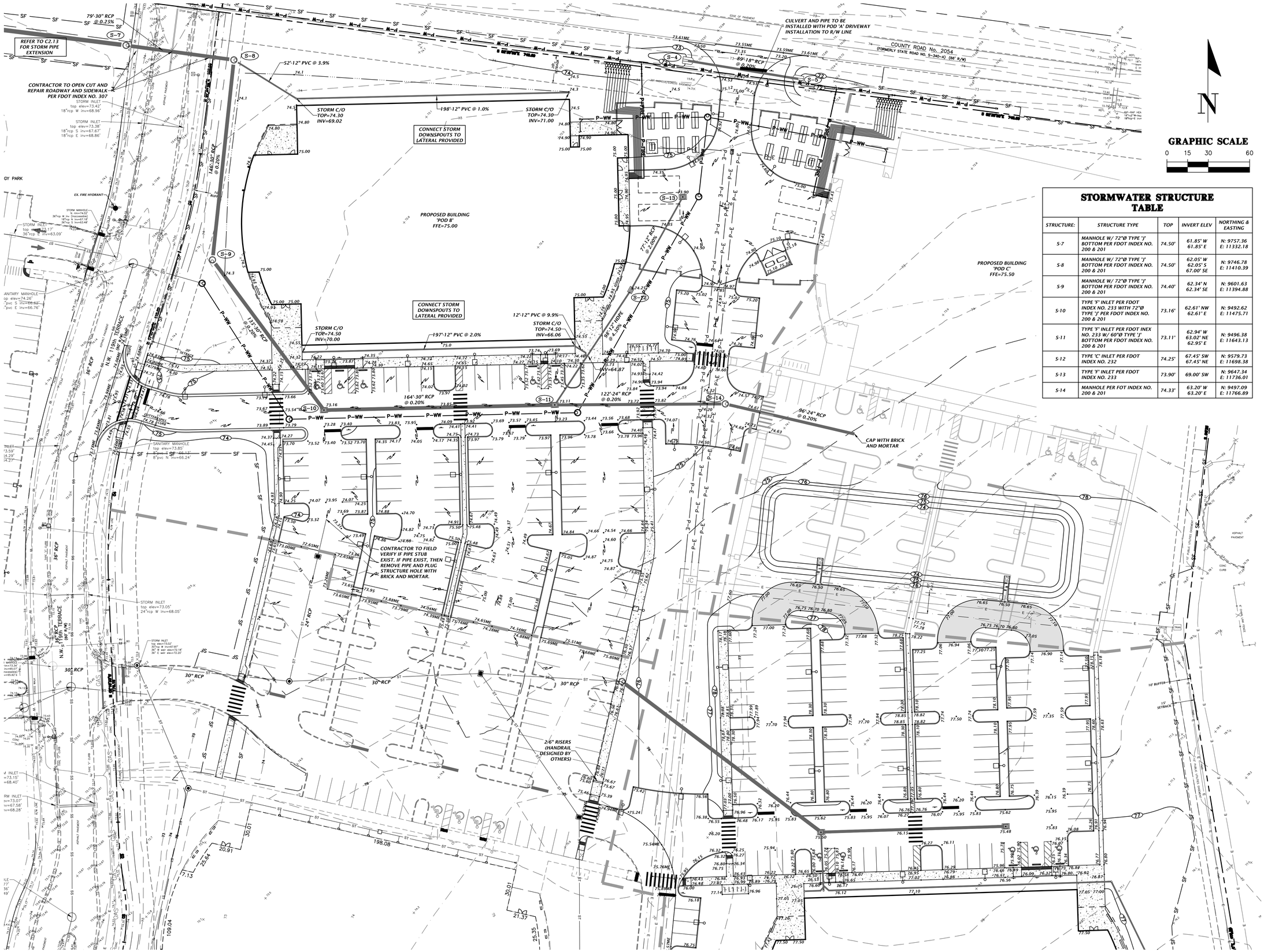
DETAILED GRADING AND DRAINAGE PLAN 'POD A'

SHEET NUMBER

C2.10

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:28am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 PG.dwg



STORMWATER STRUCTURE TABLE

STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	NORTHING & EASTING
S-7	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.50'	61.85' W 61.85' E	N: 9757.36 E: 11332.18
S-8	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.50'	62.05' W 62.05' S 67.00' SE	N: 9746.78 E: 11410.39
S-9	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.40'	62.34' N 62.34' SE	N: 9601.63 E: 11394.88
S-10	TYPE 'F' INLET PER FDOT INDEX NO. 233 WITH 72"Ø TYPE 'J' PER FDOT INDEX NO. 200 & 201	73.16'	62.61' NW 62.61' E	N: 9492.62 E: 11475.71
S-11	TYPE 'F' INLET PER FDOT INEX NO. 233 W/ 60"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	73.11'	62.94' W 63.02' NE 62.95' E	N: 9496.38 E: 11643.13
S-12	TYPE 'C' INLET PER FDOT INDEX NO. 232	74.25'	67.45' SW 67.45' NE	N: 9579.73 E: 11698.38
S-13	TYPE 'F' INLET PER FDOT INDEX NO. 233	73.90'	69.00' SW	N: 9647.34 E: 11736.01
S-14	MANHOLE PER FOT INDEX NO. 200 & 201	74.33'	63.20' W 63.20' E	N: 9497.09 E: 11766.89

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=30'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

DETAILED GRADING AND DRAINAGE PLAN 'POD B'

SHEET NUMBER

C2.11

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:29am Filename: L:\2016\16-0111\Engineering\CHWCA\Production Files\16-0111 PD.dwg

STORMWATER STRUCTURE TABLE

STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	NORTHING & EASTING
S-15	TYPE 'F' INLET PER FDOT INDEX NO. 233	73.76'	63.39' W 63.39' E	N: 9474.95 E: 11862.23
S-16	TYPE 'F' INLET PER FDOT INDEX NO. 233	73.58'	63.65' W 66.00' N	N: 9445.98 E: 11993.06

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075

DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=20'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

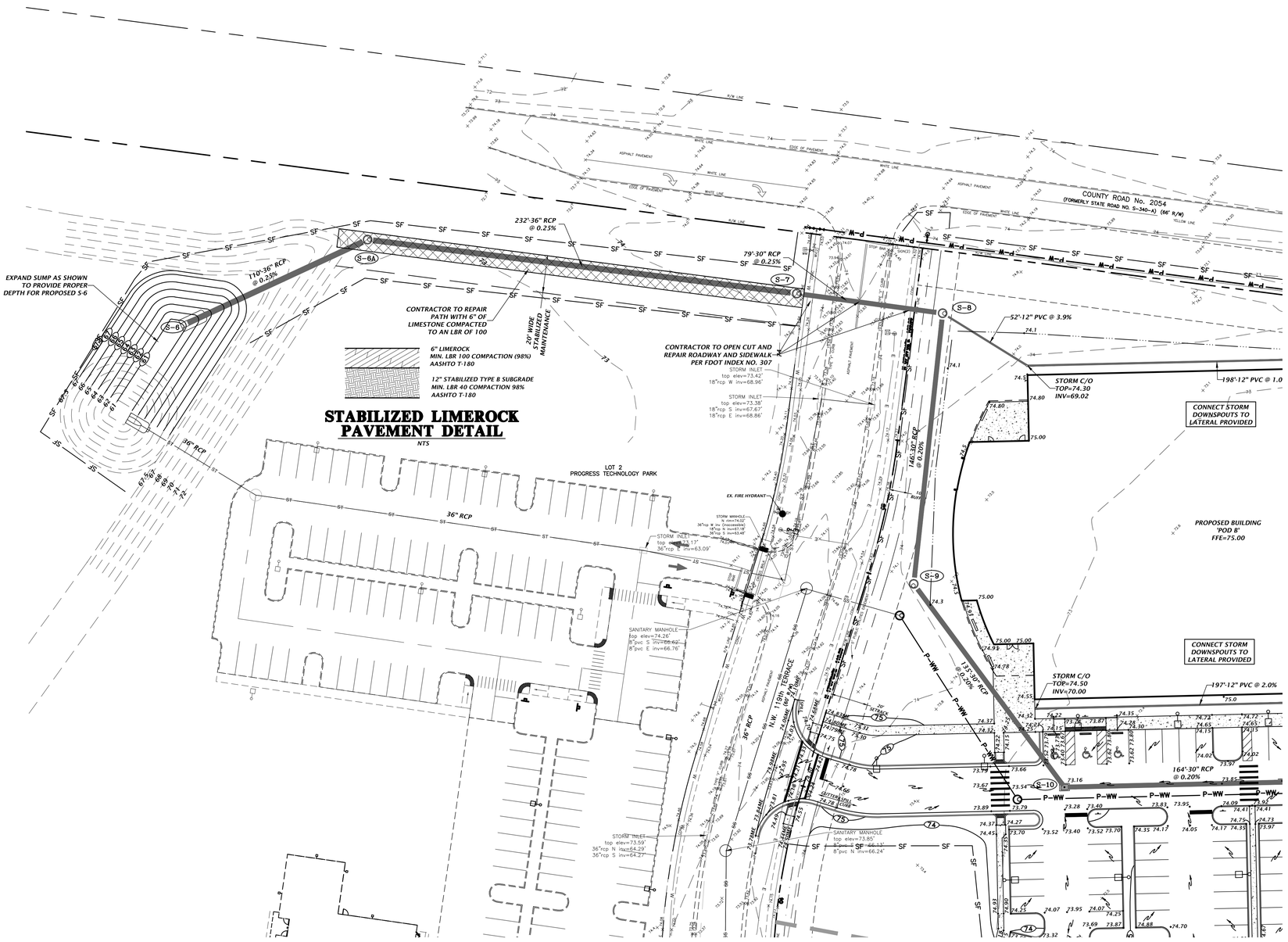
DETAILED GRADING AND DRAINAGE PLAN 'POD C'

SHEET NUMBER

C2.12

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:50am Filename: L:\2016\16-0111\Engineering\CHWA\Production Files\16-0111 PG.dwg



STABILIZED LIMEROCK PAVEMENT DETAIL

NTS

STORMWATER STRUCTURE TABLE

STRUCTURE:	STRUCTURE TYPE	TOP	INVERT ELEV	NORTHING & EASTING
S-6	36" MITERED END SECITON PER FDOT INDEX NO. 272	N/A	61.00' NE	N: 9739.91 E: 11001.93
S-6A	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	73.00'	61.27' SW 61.27' E	N: 9786.28 E: 11101.92
S-7	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.50'	61.85' W 61.85' E	N: 9757.36 E: 11332.18
S-8	MANHOLE W/ 72"Ø TYPE 'J' BOTTOM PER FDOT INDEX NO. 200 & 201	74.50'	62.05' W 62.05' S 67.00' SE	N: 9746.78 E: 11410.39

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 * 5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	1"=20'
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

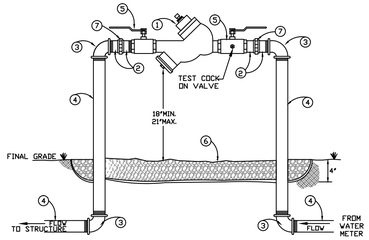
DETAILED GRADING AND DRAINAGE PLAN

SHEET NUMBER

C2.13

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:50am Filename: L:\2016\16-0111\Engineering\CHW\Production Files\16-0111 PG.dwg

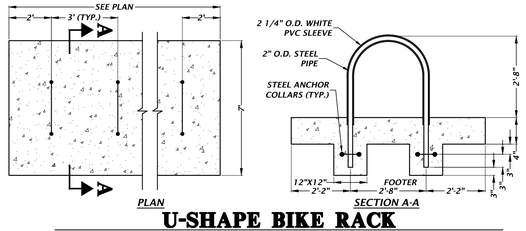


BACKFLOW PREVENTER

MATERIALS		
ITEM	DESCRIPTION	
1	1", 2"	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
2	1", 2"	GALVANIZED NIPPLE WITH GALVANIZED UNION
3	1", 2"	GALVANIZED 90 DEG ELBOW
4	1", 2"	GALVANIZED PIPE
5	1", 2"	1/4 TURN BRASS BALL VALVE
6		GRAVEL BED (NO. 57 STONE)
7	1", 2"	GALVANIZED UNION

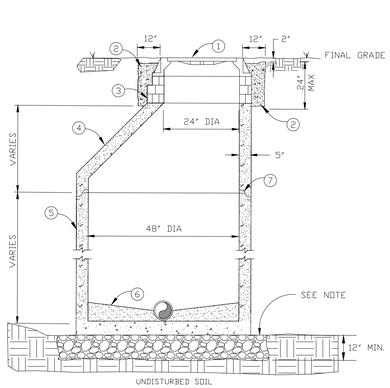
REDUCED PRESSURE ZONE BACKFLOW PREVENTER

NTS



U-SHAPE BIKE RACK

NTS

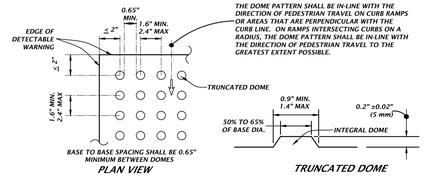


MATERIALS	
ITEM	DESCRIPTION
1	MANHOLE RING & COVER, 24" DIA.
2	CONCRETE COLLAR (2500 PSI)
3	BRICK & MORTAR
4	ECCENTRIC CONE, MANHOLE
5	MANHOLE/CONCENTRIC BASE (CLOSED BOTTOM)
6	BRICK W/GROUT FILLER
7	JOINT SEALER

NOTE: A BEDDING OF CLASS I, CLASS II OR CLASS III MATERIAL SHALL BE REQUIRED WHEN THE MANHOLE BOTTOM CANNOT BE INSTALLED ON UNDISTURBED SOIL OR IF THE NATIVE SOIL IS CLASS IV OR CLASS V MATERIAL.

MANHOLE CONSTRUCTION

NTS

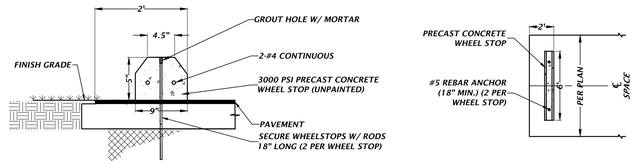


THE DOME PATTERN SHALL BE IN-LINE WITH THE DIRECTION OF PEDESTRIAN TRAVEL ON CURB RAMPS OR AREAS THAT ARE PERPENDICULAR WITH THE CURB LINE. ON RAMPS INTERSECTING CURBS ON A RADIUS, THE DOME PATTERN SHALL BE IN-LINE WITH THE DIRECTION OF PEDESTRIAN TRAVEL TO THE GREATEST EXTENT POSSIBLE.

DETECTABLE WARNING DETAIL

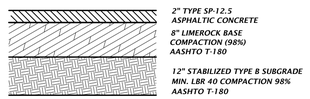
NTS

1. PROVIDE DETECTABLE WARNINGS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) SECTION 705-DETECTABLE WARNINGS ON WALKING SURFACES AND THE 2014 FLORIDA BUILDING CODE, ACCESSIBILITY, CHAPTER 2, SECTION 705.
2. RAISED TRUNCATED DOMES SHALL HAVE A BASE DIAMETER FROM 0.9" MIN TO 1.4" MAX, A TOP DIAMETER FROM 50% TO 65% OF BASE DIAMETER, A HEIGHT OF 0.2 INCH (5 mm) NOMINAL, CENTER-TO-CENTER SPACING FROM 1.6" MIN TO 2.4" MAX, AND BASE-TO-BASE SPACING OF 0.65% MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.
3. SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
4. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES.
5. IF MATS ARE TO BE UTILIZED:
   - A - DETECTABLE WARNING SURFACE SHALL CONSIST OF 3-FT WIDE, SURFACE APPLIED, POLYURETHANE MAT WITH IN-LINE TRUNCATED DOME PATTERN.
   - B - DETECTABLE WARNING SURFACE SHALL BE SECURED BY ADHESIVE AND STAINLESS STEEL ANCHORS.
   - C - ACCEPTABLE PRODUCTS ARE THE SURFACE APPLIED REDMAT MANUFACTURED BY DETECTABLE WARNING SYSTEMS, INC. OR EQUAL LISTED ON THE FDOT QUALIFIED PRODUCTS LIST IN ACCORDANCE WITH SECTION 527-2.4 OF THE FDOT STANDARD SPECIFICATIONS.
   - D - PRIOR TO INSTALLING DETECTABLE WARNING MAT, SCRUB THE SURFACE WITH A WIRE BRISTLE BRUSH. THE EXISTING CONCRETE SURFACE SHALL BE CLEANED OF ANY LOOSE MATERIAL, DUST, OILS, GREASE, AND SEALERS.
   - E - ALL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH THE DETECTABLE WARNING MAT MANUFACTURER'S SPECIFICATIONS.
6. IF INTERLOCKING PAVERS ARE TO BE UTILIZED:
   - A - DETECTABLE WARNING SURFACE FOR THE RAMPS SHALL CONSIST OF INTERLOCKING 4" X 8" ADA DETECTABLE WARNING SURFACE PAVERS HAVING A MINIMUM DEPTH OF 2". CONCRETE PAVERS ARE TO MEET ASTM C902 CLASS SX TYPE 1; AND BRICK PAVERS ARE TO MEET ASTM C55, GRADE N, SOLID BRICK COLOR TO MEET ADA CONTRAST REQUIREMENTS.
   - B - ALL UNITS SHALL BE SOUND AND FREE OF DEFECTS THAT WOULD INTERFERE WITH THE APPEARANCE OF PROPER PLACEMENT OF THE UNIT OR IMPAIR THE STRENGTH OR LONGEVITY OF THE FINAL STRUCTURE. ANY UNITS THAT ARE STRUCTURALLY DAMAGED DURING THE WORK SHALL BE IMMEDIATELY REMOVED AND REPLACED. THE PAVERS ARE TO BE LAID IN A TWO BY TWO BASKETWEAVE PATTERN, FLUSH WITH THE FINISH GRADE OF THE RAMP SURFACE, AND HAVE GAPS BETWEEN 1/16 AND 1/8 INCH. CUT PAVERS (MASONRY SAW ONLY) SHALL BE NO SMALLER THAN ONE-THIRD OF A WHOLE PAVER.
   - C - MODIFY FORMWORK OR PROVIDE FORMED GROUT INFILL BEHIND CURVED DROP CURB SECTIONS TO ENSURE STRAIGHT EDGE RESTRAINT FOR PAVERS.
   - D - CONCRETE EDGE RESTRAINT FOR WARNING AREA. MAXIMUM GAP OF 1/8" BETWEEN PAVERS AND EDGE. USE ½" RADIUS ALONG CONCRETE EDGES.
   - E - WHEN PAVERS ABUT EITHER EARTH/DIRT OR PAVEMENT, A SIX INCH CONCRETE BAND SHALL BE INSTALLED. BAND SHALL BE WITHIN LIMITS OF THE WIDTH OF PROPOSED CONCRETE AND NOT EXTENDED AN ADDITIONAL SIX INCHES..
7. OTHER METHODS/MATERIALS MAY BE USED FOR THE DETECTABLE WARNING STRIP, BUT THEY MUST MEET THE ABOVE CRITERIA.
8. ALL MATERIALS/METHODS TO BE UTILIZED SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO ORDERING THE MATERIALS/METHODS. FAILURE TO OBTAIN APPROVAL BEFORE ORDERING OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR THE PERFORMANCE OF THE ITEM.
9. IF FDOT CURB RAMPS ARE SPECIFIED, REFER TO THE FDOT INDEX NO. 304 FOR SPECIFICATIONS CONCERNING THE APPLICABLE DETECTABLE WARNING STRIP TO BE USED WITH FDOT SPECIFIED RAMPS.



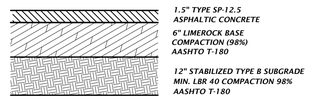
WHEEL STOP DETAIL

NTS



HEAVY DUTY ASPHALT DETAIL

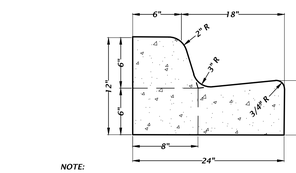
NTS



STANDARD DUTY ASPHALT DETAIL

NTS

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

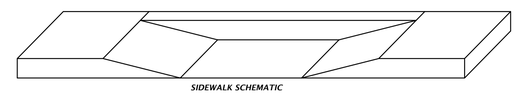


NOTE:

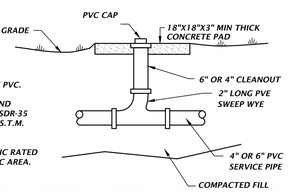
WHEN USED ON THE HIGH SIDE OF ROADWAY, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6".

TYPE 'F' CONCRETE CURB AND GUTTER DETAIL

NTS



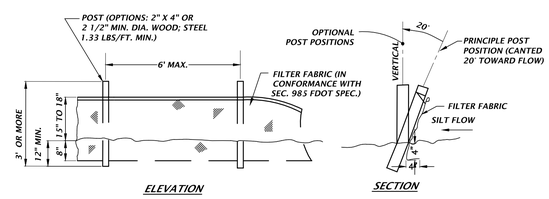
SIDEWALK SCHEMATIC



NOTES:
1. MATERIAL SHALL BE PVC.
2. PVC PLASTIC PIPE AND FITTINGS SHALL BE SDR-35 CONFORMING TO A.S.T.M. STANDARD D-3034.
3. PROVIDE H-20 TRAFFIC RATED COVERED IN TRAFFIC AREA.

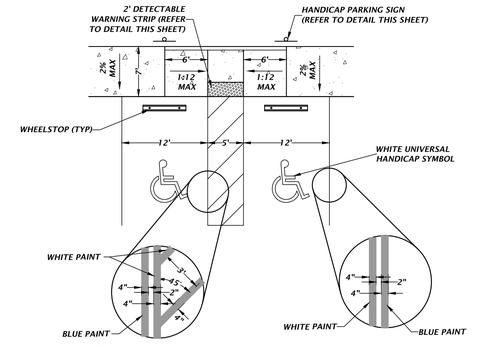
INLINE WASTEWATER SERVICE LATERAL

NTS



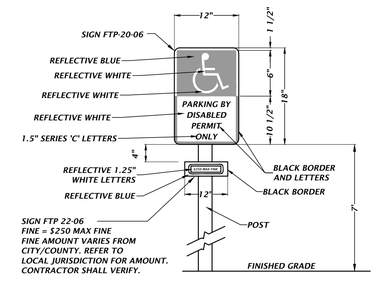
TYPE III SILT FENCE DETAIL

NTS



2 BAY HANDICAP PARKING

NTS



SIGN NOTES:

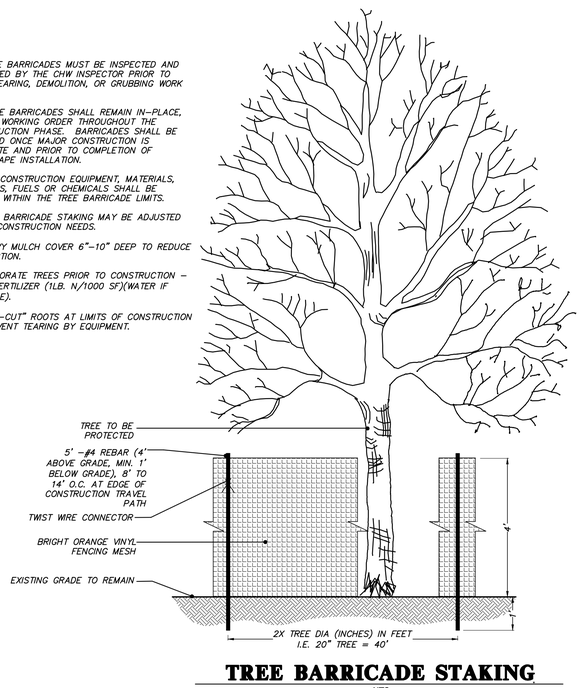
1. SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.

H.C. PARKING SIGN DETAIL

NTS

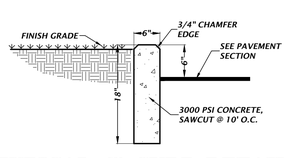
NOTE:

1. TREE BARRICADES MUST BE INSPECTED AND APPROVED BY THE CHW INSPECTOR PRIOR TO ANY CLEARING, DEMOLITION, OR GRUBBING WORK BEGINS.
2. TREE BARRICADES SHALL REMAIN IN-PLACE, AND IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. BARRICADES SHALL BE REMOVED ONCE MAJOR CONSTRUCTION IS COMPLETE AND PRIOR TO COMPLETION OF LANDSCAPE INSTALLATION.
3. NO CONSTRUCTION EQUIPMENT, MATERIALS, SUPPLIES, FUELS OR CHEMICALS SHALL BE STORED WITHIN THE TREE BARRICADE LIMITS.
4. TREE BARRICADE STAKING MAY BE ADJUSTED TO FIT CONSTRUCTION NEEDS.
5. HEAVY MULCH COVER 6"-10" DEEP TO REDUCE COMPACTION.
6. INVIGORATE TREES PRIOR TO CONSTRUCTION - LIGHT FERTILIZER (1LB. N/1000 SF)(WATER IF POSSIBLE).
7. "PRE-CUT" ROOTS AT LIMITS OF CONSTRUCTION TO PREVENT TEARING BY EQUIPMENT.



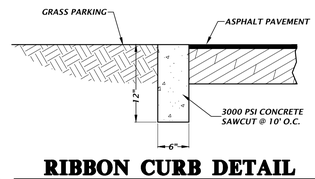
TREE BARRICADE STAKING

NTS



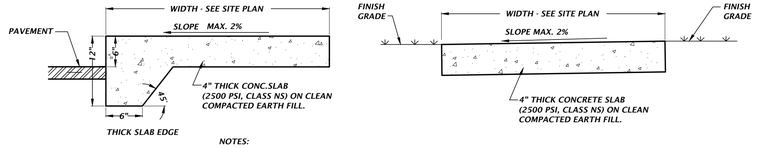
TYPICAL 6" CURB DETAIL

NTS



RIBBON CURB DETAIL

NTS



NOTES:

1. SAWCUT CONTROL JOINTS SHALL BE CONSTRUCTED 5 FEET ON CENTER
2. EXPANSION JOINTS WITH PREFORMED JOINT FILLER SHALL BE CONSTRUCTED BETWEEN ALL FIXED OBJECTS AND WALK AND AT CONSTRUCTION JOINTS.

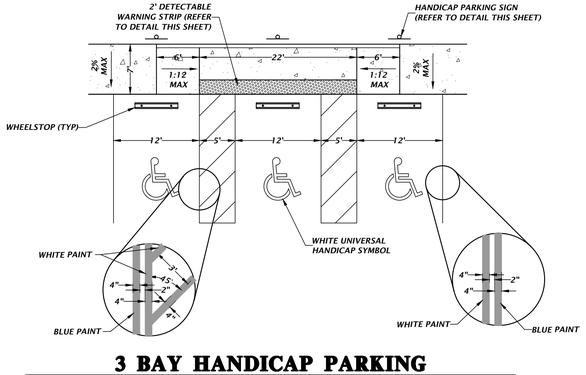
ADJACENT TO PAVEMENT

NTS

NOT ADJACENT TO PAVEMENT

NTS

CONCRETE SIDEWALK DETAILS



3 BAY HANDICAP PARKING

NTS

RS&H

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com
FL Cert. Nos. AAC001886 * IB26000956 *
5620 * LCC000210 * GB238

CONCEPT CONSTRUCTION

FOUNDATIONPARK
A Bioscience & Innovation Center

14193 NW 119TH TERRACE
ALACHUA, FL 32615

CONSULTANTS

CHW
Professional Consultants
11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 FLORIDA CA-5075
DANIEL H. YOUNG

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	1/04/17
SCALE:	N/A
DRAWN BY:	TFC
REVIEWED BY:	DHY

CHW PROJECT NUMBER
16-0111

© 2016 RS&H, INC.

CONSTRUCTION DETAILS

SHEET NUMBER

C2.30

100% CONSTRUCTION DOCUMENTS

Tech: ThomasC Plot Date: Jan 04,2017 8:31am Filename: L:\2016\16-0111\Engineering\CHWCA\Production Files\16-0111 DT.dwg