DEVELOPMENT PLANS

FOR

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITIES

SECTION 38, TOWNSHIP 6 SOUTH, RANGE 26 EAST

SUBMITTED TO

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
CLAY COUNTY
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

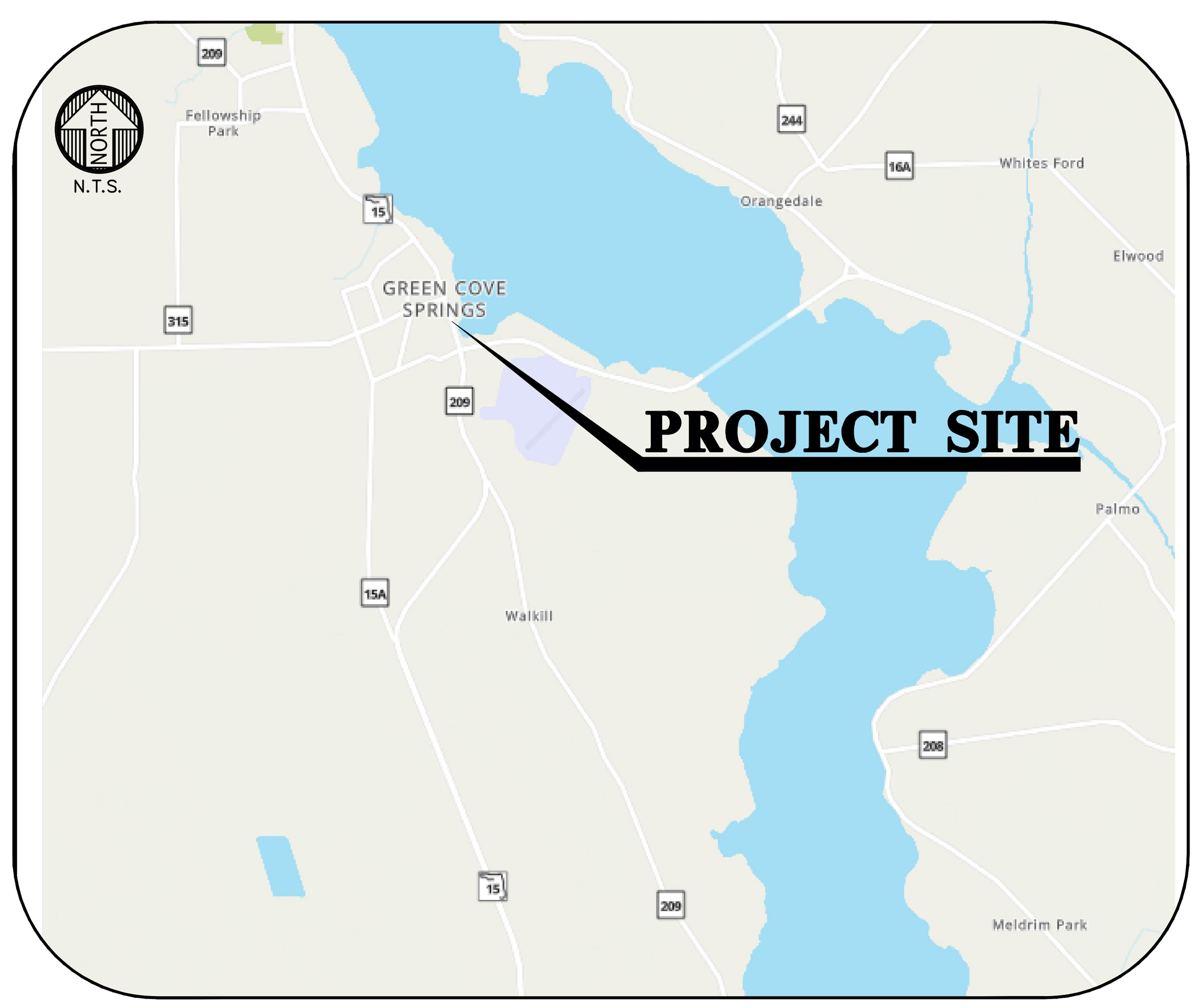
DEVELOPER
GAURAV LOHIYA
WALKER ARCHITECTS
2035 NW 13TH STREET
GAINESVILLE, FLORIDA 32609

OWNERS
CLAY COUNTY
PO BOX 1366
GREEN COVE SPRINGS, FL 32043

ENGINEER OF RECORD
TRAVIS J. HASTAY, P.E.
CHW
11801 RESEARCH DRIVE
ALACHUA, FL 32615
(352) 331-1976

SURVEYOR OF RECORD
CLINTON N. RICKNER, P.S.M.
CHW
2100 SE 17TH STREET, UNIT 802
OCALA, FL 34471
(352) 414-4621

LANDSCAPE
CAELI TOLAR, P.L.A.
CHW
11801 RESEARCH DRIVE
ALACHUA, FL 32615
(352) 331-1976



VICINITY MAP

DEVELOPMENT DATA:

	ON-SITE	
DEVELOPMENT AREA:	82,135 S.F.	1.78 AC
BUILDING AREA	18,731 S.F.	22.80%
ROADS/CURB/CONCRETE:	45,384 S.F.	55.26%
IMPERVIOUS AREA:	64,775 S.F.	78.86%
OPEN SPACE:	17,360 S.F.	21.14%
PARKING SPACES:	102	
FAR	0.397	
MAX BUILDING HEIGHT:	LESS THAN 21 FEET	
LEGAL DESCRIPTION: REFER TO SURVEY		

SHEET INDEX

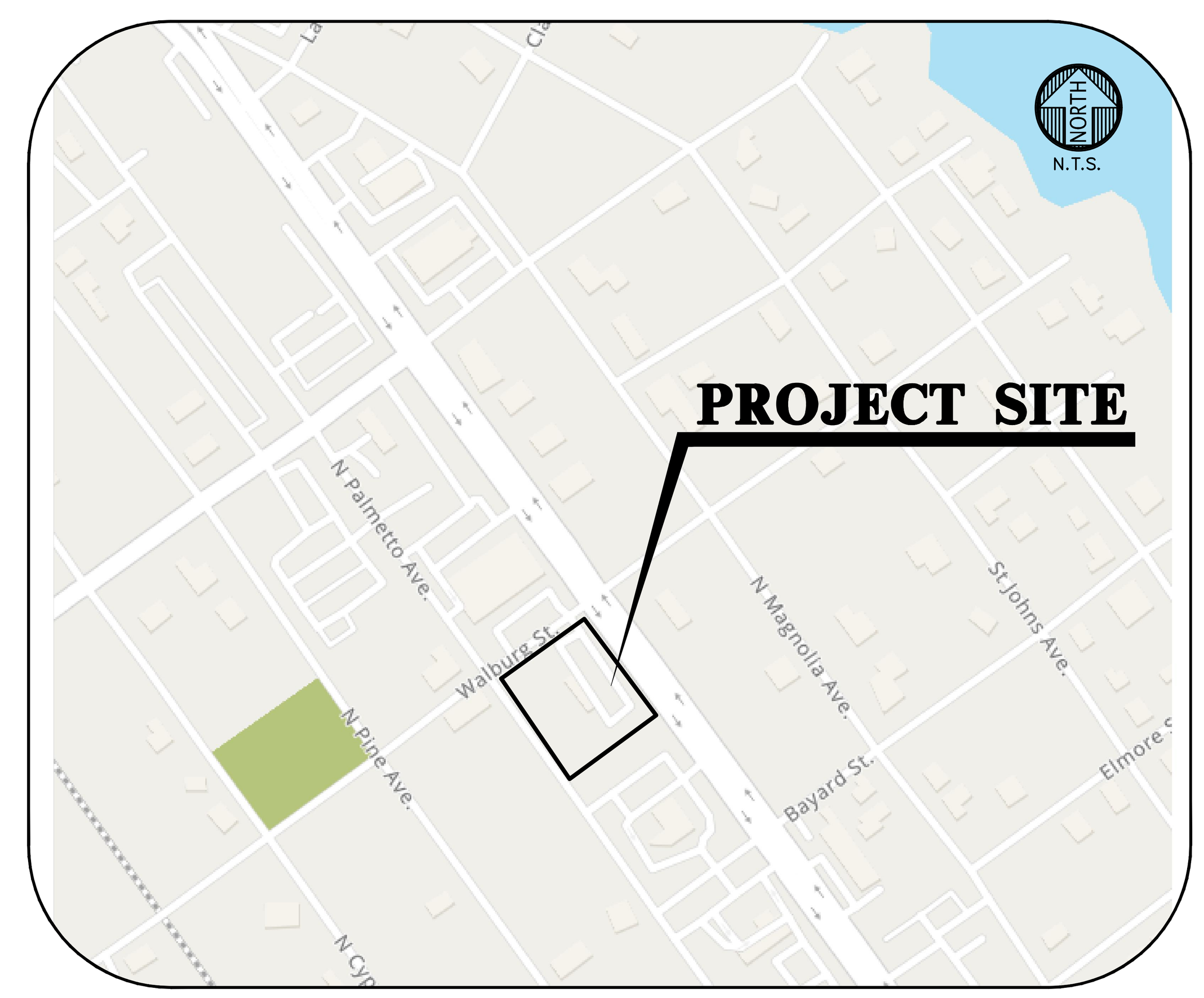
BEFORE YOU DIG !
CALL SUNSHINE STATE ONE CALL OF FLORIDA
AT LEAST TWO FULL BUSINESS DAYS BEFORE
DIGGING OR DISTURBING EARTH
1-800-432-4770
811
Know what's **below.**
Call before you dig.

TRAFFIC STATEMENT:

PROPOSED LAND USE	ITE LU	AREA	AADT	AM PEAK	PM PEAK
GOVERNMENT OFFICE BUILDING	(730)	30,772 S.F.	695	114	98
NET TRIP GENERATION			695	114	98

1.) BASED ON ITE TRIP GENERATION MANUAL 11TH EDITION

PARKING REQUIREMENT:
PARKING REQUIRED: 30,772 SF AT 1 SPACE PER 333 SF = 30,772 / 333 = 92 SPACES
PARKING PROVIDED: 104 SPACES
ACCESSIBLE PARKING REQUIRED: 5 SPACES
ACCESSIBLE PARKING PROVIDED: 5 SPACES
ADDITIONAL SPACES PROVIDED BY NEIGHBORING COUNTY BUILDINGS.



LOCATION MAP

Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG
Daniel H. Young, State of Florida, Professional Engineer, License No. 70780
This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
Digitally signed by Daniel Harvey Young
DN: CN=Daniel Harvey Young, O=Daniel Harvey Young, L=Mount Dora, S=Florida, C=US
Reason: I am approving this document
Date: 2024.07.11 16:14:49-04'00'
FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

IMEG The FUTURE. Built Smarter.
9133 R.G. SKINEER PARKWAY, SUITE 1
JACKSONVILLE, FL

SUBMITTAL:	ISSUE DATE:
100% CONSTRUCTION DOCUMENTS	4/11/2024

REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:
COVER SHEET AND INDEX

PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

C0.00

Tech: nicolac Plot Date: Jun 19,2024 8:59am Filename: N:\2023\23-0204\Departments\04_Engineering\02_DWGs\Production Files\23-0204 CV.dwg

CLAY COUNTY GENERAL NOTES (COMMERCIAL)

1. CLAY COUNTY ENGINEERING DIVISION REQUIRES TWENTY-FOUR HOURS (24-HR) NOTICE ON ALL MEETINGS AND OR TESTING PROCEDURES.

2. CONSTRUCTION WARNING SIGNS ARE TO BE POST MOUNTED AND ERECTED BEFORE CONSTRUCTION CAN COMMENCE. THESE AND ALL TRAFFIC CONTROL DEVICES SHALL FOLLOW THE STANDARDS SET FORTH BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DETAILS.

3. ALL CONSTRUCTION PROJECTS 1 ACRE OR MORE IN SIZE SHALL BE REQUIRED TO ABIDE BY THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION (NPDES) PERMIT. THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR PREPARING THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMITTING THE NPDES 'NOTICE OF INTENT' (NOI) AND 'NOTICE OF TERMINATION' (NOT) TO THE EPA OR LOCAL STATE AGENCY HAVING JURISDICTION OVER THE NPDES PROGRAM. THE CONTACTOR SHALL KEEP ONSITE COPIES OF THE SWPPP, NOI, AND WATER MANAGEMENT DISTRICT PERMITS.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RECOGNIZE AND ABIDE BY ALL OSHA SAFETY STANDARDS.

5. ALL DISTURBED CLAY COUNTY RIGHTS-OF-WAY SHALL BE SODDED TO THE DISCRETION AND APPROVAL OF THE CLAY COUNTY ENGINEERING DIVISION.

6. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO EXCAVATION AND TAKE ALL MEASURES NECESSARY TO PROTECT UTILITIES DURING CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE UTILITY COMPANY, THE ENGINEER, AND THE COUNTY.

CALL BEFORE YOU DIG
1-800-432-4770
&
904-269-6359

- CALL 800-432-4770 TWO FULL BUSINESS DAYS BEFORE DIGGING. CALL 10 DAYS BEFORE DIGGING WHEN DIGGING UNDER WATER.
- CALL 904-269-6359 (CLAY COUNTY SIGNAL & MAINTENANCE DIVISION) TWO FULL BUSINESS DAYS BEFORE DIGGING
- WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED.
- PROTECT THE MARKS DURING YOUR PROJECT. IF MARKS ARE DESTROYED, CALL AGAIN.
- DIG SAFELY, USING EXTREME CAUTION WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.

7. BEFORE WORKING IN EXISTING COUNTY RIGHTS-OF-WAY, THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A RIGHT-OF-WAY PERMIT. THE PERMIT CAN BE OBTAINED AT THE CLAY COUNTY ENGINEERING DIVISION, 477 HOUSTON STREET, 3RD FLOOR, GREEN COVE SPRINGS, FLORIDA.

8. ALL SWALE SECTIONS AND PONDS ARE TO BE SODDED WITHIN 15 DAYS OF THEIR FINAL GRADING.

9. ANY OFFSITE SWALES OR DITCHES IMPACTED BY THE DEVELOPMENT, THE CONTACTOR SHALL RE-GRADE AND RESTORE, TO OBTAIN POSITIVE DRAINAGE.

10. A COPY OF THE CONTRACTORS' GENERAL LICENSE AND THE UNDER GROUND UTILITY LICENSE SHALL BE PROVIDED AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.

11. ANY APPLICABLE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), FDEP (GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, ARMY CORP OF ENGINEERS, AND A FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) PERMITS SHALL BE PROVIDED TO THE COUNTY BY THE PRE-CONSTRUCTION CONFERENCE. NO WORK SHALL BEGIN WITHOUT ALL APPLICABLE PERMITS ON FILE.

12. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) BEFORE THE COUNTY WILL ACCEPT THE PROJECT.

13. ALL STORM PIPES SHALL BE VIDEOED PRIOR TO A FINAL INSPECTION AND ALL DATA SHALL BE RECORDED IN HIGH QUALITY DVD FORMAT WITH SOUND OR ANY EQUIPMENT APPROVED BY THE ENGINEERING DIVISION (REF. FDOT SSRBC LATEST EDITION).

14. THERE SHALL BE A MINIMUM FIVE (5) DAYS NOTICE GIVEN FOR SCHEDULING THE FINAL INSPECTION.

15. AT THE FINAL INSPECTION A LETTER OF COMPLIANCE WILL NEED TO BE FILLED OUT AND SIGNED BY THE STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER OF RECORD FOR THE PROJECT. THE LETTER SHALL STATE THAT THE PROJECT HAS BEEN BUILT IN ACCORDANCE OF THE APPROVED DESIGN PLANS AND OTHER AGENCY PERMITS.

16. ALL SOIL AND DEBRIS TRACKED OUT OF THE PROJECT SHALL BE CLEANED IN ACCORDANCE WITH THE APPROVED SWPPP OR AT THE DISCRETION OF THE CLAY COUNTY ENGINEERING DIVISION.

17. PRIOR TO ANY INSPECTION OR TESTING, ALL PIPE LINE, STRUCTURES, ROADWAY, ETC. SHALL BE CLEANED.

EROSION CONTROL

1. PURSUANT TO COMPREHENSIVE PLAN POLICY 9:1 OF THE CONSERVATION ELEMENT, THE USE OF ONE OR MORE EROSION CONTROL MEASURES, AS REQUESTED BY THE CLAY COUNTY ENGINEERING DIVISION, SHALL BE USED DURING CONSTRUCTION. THESE WILL BE, BUT NOT LIMITED TO, ITEMS SUCH AS TEMPORARY GRASS COVER, SEDIMENT BASINS OR PONDS, MULCHING, TEMPORARY FENCES, DIVERSION CHANNELS, AND HAY BALES.

2. PURSUANT TO COMPREHENSIVE PLAN POLICY 9:1 OF THE CONSERVATION ELEMENT, SCHEDULING OF CONSTRUCTION SHALL BE GIVEN SPECIAL CONSIDERATION TO MINIMIZE EXPOSURE OF BARE SOIL. THE CONTRACTOR WILL FORMULATE A CONSTRUCTION SCHEDULE TO BE GIVEN TO THE COUNTY REPRESENTATIVE.

3. THE GOVERNING PUBLICATIONS FOR EROSION CONTROL ARE CURRENT FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 100-105, CURRENT FDOT STD. SPEC. FOR ROADWAY & BRIDGE CONST., SECTION 104, AND THE NPDES STORMWATER AND EROSION CONTROL MANUAL LATEST EDITION.

4. THE CONTRACTOR SHALL CHECK EACH DAY TO INSURE THAT ALL EROSION CONTROL DEVICES ARE IN PLACE AND WORKING PROPERLY.

5. ALL EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE RULES, REGULATIONS AND STANDARDS OF THE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT, THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND THE UNITED STATES ARMY CORP OF ENGINEERS AND CLAY COUNTY REGULATIONS AND ORDINANCES.

6. THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO PREVENT THE EROSION OF SOIL AND DEPOSITION OF SEDIMENT ON ADJACENT AND DOWNSTREAM PROPERTIES.

7. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. SEDIMENT CONTROL CONSISTS OF SILT FENCING, HAY BALES, AND FLOATING TURBIDITY BARRIERS PER FDOT INDEX NO. 102 &103. EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING.

8. THE CONTACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE WITH 24-HOURS OF BEING INFORMED BY CLAY COUNTY, UNLESS THE SITUATION REQUIRES AN IMMEDIATE RESPONSE. THE CONTRACTOR WILL THEN RESPOND IMMEDIATELY AFTER NOTIFICATION BY THE COUNTY. THE CONTACTORS EROSION CONTROL INSPECTOR SHALL BE A QUALIFIED STORMWATER MANAGEMENT INSPECTOR BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

9. THE CONTRACTOR SHALL BE REQUIRED TO INCORPORATE PERMANENT EROSION CONTROL MEASURES AT THE EARLIEST PRACTICAL TIME SO AS TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.

10. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL EROSION CONTROL MEASURES AS DETERMINED BY THE COUNTY OR THE CONTACTOR TO INSURE QUALITY CONTROL.

11. ALL DISTURBED AREAS SHALL BE GRASSED WITHIN 7 DAYS OF THE INITIAL DISTURBANCE. TYPES OF GRASSING SHALL BE AS FOLLOWS: SODDING IS REQUIRED FOR AROUND ALL DRAINAGE STRUCTURES, RETENTION/DETENTION AREAS, SWALES, DITCHES, AND WHERE 4:1 SLOPES ARE EXCEEDED. SEED AND MULCH MAY BE USED AT ALL OTHER LOCATIONS UNLESS SPECIFICALLY CALLED OUT FOR ON THESE DRAWINGS. THERE SHALL BE A STANDING ROW OF GRASS AT THE TIME OF FINAL ACCEPTANCE. IF SEED AND MULCH HAS BEEN USED AND HAS NOT TAKEN TO, SOD WILL BE REQUIRED FOR ESTABLISHED GRASS.

12. THE CONTRACTOR SHALL INSPECT AND REPORT EROSION AND SEDIMENT CONTROL METHODS EVERY WEEK AND AFTER ½ INCH OF RAIN DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT BUILD UP, REPAIR OR REINSTALL ANY CONTROL MEASURES.

13. THE COUNTY REQUIRES BACKGROUND TESTING OF LOCAL WATERWAYS AND ADDITIONAL PERIODIC TESTING DURING CONSTRUCTION FOR WATER QUALITY AND CONFORMITY WITH CLAY COUNTY STANDARDS.

DRAINAGE STRUCTURES & PIPE INSTALLATION

1. THE GOVERNING PUBLICATIONS FOR PIPE ARE THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION INDEX 430 AND THE CURRENT FDOT STD. SPEC. FOR ROADWAY & BRIDGE CONST. SECTION 430.

2. THE GOVERNING PUBLICATIONS FOR INLETS, JUNCTION BOXES AND MANHOLES ARE THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX 425 AND THE CURRENT FDOT STD. SPEC. FOR ROADWAY & BRIDGE CONST. SECTION 425.

3. ALL JOINTS OF PIPE REGARDLESS OF MATERIAL TYPE SHALL BE WRAPPED WITH FABRIC FILTER CLOTH PER FDOT STD. SPEC FOR ROADWAY AND BRIDGE CONSTRUCTION INDEX 985 TYPE D-3, A.O.S. 70-100. THE FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NUMBER 430. THE CONTRACTOR WILL PROVIDE A MINIMUM 12" OVERLAP IN THE FABRIC.

4. ALL STORM SEWER PIPES ARE TO BE STEEL REINFORCED CONCRETE PIPE (SRCP) UNLESS OTHERWISE NOTED ON THESE DRAWINGS. ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76. ELLIPTICAL PIPE SHALL COMPLY WITH ASTM C507. PIPE JOINTS AND O RING GASKETS SHALL COMPLY WITH ASTM C443.

5. ALL STORM SEWER PIPES SHALL BE SUBJECTED TO LEAKAGE TESTING AND SHALL BE VIDEOED/ TV PRIOR TO THE FINAL INSPECTION.

6. ALL STORM SEWER PIPES SHALL BE CUT FLUSH WITH THE INTERIOR WALL OF ANY TYPE MANHOLE OR CURB AND DITCH BOTTOM INLETS.

7. IF THE APPROVED DESIGN REQUIRES THE INLET OR STORM RUN BE SURCHARGED, ALL INLETS SHALL BE INSPECTED BEFORE BEING EXPOSED TO THE SYSTEM.

8. MITERED END SECTIONS SHALL MEET THE REQUIREMENTS UNDER THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX 430.

9. NO MANHOLE SHALL BE PLACED WITHIN 2.5' OF THE CURB.

10. NO BRICK ADJUSTMENT SHALL BE ALLOWED FOR MANHOLES UNDERNEATH THE PAVEMENT.

11. THE MAXIMUM THRESHOLD FOR MANHOLE ADJUSTMENT UNDERNEATH THE ROADWAY SHALL BE BETWEEN 0 TO 4".

12. FINAL PIPE INSPECTION IN THE RIGHT-OF-WAY OR COUNTY'S EASEMENT: AFTER THE FINAL PAVEMENT OPERATION, THE CONTRACTOR SHALL DEWATER AND VIDEO THE PIPE/CULVERT; THE COUNTY WILL ONLY REVIEW THE VIDEO DATA POST ASPHALT CONSTRUCTION SUPPLIED BY THE CONTRACTOR/DEVELOPER, AND THE TESTS AND DVD MUST MEET SECTION 430 OF THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SIGNAGE & PAVEMENT MARKINGS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED ADDITION OF THE FDOT STANDARD PLANS FOR ROAD CONSTRUCTION INDEX NUMBERS 700, 706 & 711.

2. ALL FINAL PAVEMENT MARKINGS WITHIN THE RIGHTS-OF-WAY SHALL BE THERMOPLASTIC.

3. ALL SIGNS SHALL BE ON A TEN-FOOT (10') POLE A MINIMUM SEVEN FEET (7') FROM THE GROUND.

4. STREET SIGNS SHALL BE MOUNTED WITH TEE CAPS.

5. STREET SIGNS SHALL BE A SIX INCHES (6") WIDE WITH GREEN BACKINGS AND WHITE LETTERS AND BORDERING.

6. STOP SIGNS SHALL MEET THE MINIMUM SIZE REQUIREMENTS OF THE MUTCD.

7. STOP SIGNS ARE TO BE PLACED FOUR FEET (4') FROM BACK OF CURB, FOUR FEET (4') BEHIND CROSS WALKS AND ON THE RIGHT HAND SIDE OF THE ROAD.

8. ALL REGULATORY SIGNS SHALL BE BLACK AND WHITE. ALL CONSTRUCTION WARNING SIGNS SHALL BE ORANGE AND BLACK. ALL WARNING SIGNS SHALL BE YELLOW AND BLACK. ALL NO PARKING AND STOP SIGNS SHALL BE RED AND WHITE.

9. STOP BARS SHALL BE TWENTY-FOUR INCHES (24") WIDE AND LANE WIDTH. ALL STOP BARS SHALL BE THERMOPLASTIC.

10. ALL SIGNS MUST MEET FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS FOR ENGINEERING GRADE SIGN FACES IN REFLECTIVITY.

11. FOR COUNTY MAINTAINED ROADS, STREET SIGNS SHALL BE COLORED WITH A GREEN BACKGROUND AND WHITE LETTERING. FOR PRIVATE ROADS, THE SIGN SHALL BE A WHITE BACKGROUND WITH GREEN LETTERING.

12. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL BY CLAY COUNTY.

SIDEWALKS

1. THE GOVERNING PUBLICATIONS FOR SIDEWALK ARE THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, INDEX 522-001 AND THE CURRENT FDOT STD. SPEC. FOR ROADWAY & BRIDGE CONST. SECTION 522.

2. SIDEWALKS ARE A MINIMUM OF 5' IN WIDTH FOR A LOCAL ROAD AND 6' IN WIDTH FOR A RESIDENTIAL COLLECTOR. ALL OTHER ROADWAY CLASSIFICATIONS SHALL REFER TO THE DETAILS HEREIN. IN NO CASE SHALL THE SIDEWALK BE LESS THAN 5' WITHOUT WRITTEN APPROVAL FROM THE ENGINEERING DIVISION.

3. ALL SIDEWALKS THAT ARE NOT IN FRONT OF A BUILD ABLE LOT, SHALL BE INSTALLED PRIOR TO THE FINAL INSPECTION

4. PEDESTRIAN CROSSING/HANDICAP RAMPS SHALL BE INSTALLED WHEREVER THE SIDEWALK MEETS THE CURB. THE RAMPS SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION INDEX 522-002. ALL ADA RAMPS SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE UNLESS OTHERWISE APPROVED BY THE ENGINEERING DIVISION.

5. WHETHER DEPICTED ON THE PLANS OR NOT, A SIDEWALK IS TO BE INSTALLED AT THE SUBDIVISION ENTRANCE RUNNING PARALLEL TO THE RIGHT OF WAY FOR THE EXTENT OF THE PROPERTY.

6. SIDEWALKS ARE TO BE PLACED, AT A MINIMUM, 3' FROM THE PROPERTY LINE OR AS OTHERWISE APPROVED BY THE ENGINEERING DIVISION.

MAINTENANCE OF TRAFFIC (MOT) NOTES

1. THE GOVERNING PUBLICATIONS FOR MAINTENANCE OF TRAFFIC ARE THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION INDEX 102 AND THE CURRENT FDOT STD. SPEC. FOR ROADWAY & BRIDGE CONST., SECTION 102, AND THE LATEST EDITION OF THE MUTCD.

AS-BUILT REQUIREMENTS

GENERAL

1. SUBMIT TWO (2) SIGNED AND SEALED SETS OF PRINTS AND ONE DIGITAL COPY (AUTOCAD FORMAT; PLEASE DO NOT USE REFERENCE FILES) WITH THE DESIGN INFORMATION (ELEVATIONS, PIPE LENGTHS, STATIONING, ETC.) LINED THROUGH (28.48) AND THE AS-BUILT INFORMATION PLACED ADJACENT TO IT.

NOTE: THE FIRM OR LICENSED SURVEYOR SHALL USE THE ORIGINAL PAVING AND DRAINAGE SHEET(S)) SPECIFICALLY FOR AS-BUILT INFORMATION. THE DRAWING(S) ARE TO BE ON 24" X 36" SHEET(S) AND CONTAIN THE FOLLOWING IN ADDITION TO THE AS-BUILT INFORMATION:

- PROJECT NAME AS IT APPEARS ON THE PLAT
- PROJECT/DEVELOPMENT NUMBER
- STREET NAMES
- ALL COMMERCIAL SITES SHALL SHOW THE SITE PHYSICAL ADDRESS IN THE TITLE BLOCK
- DESIGN INFORMATION FOR ALL AS-BUILT INFORMATION PROVIDED LINED THROUGH
- NORTH ARROW
- SCALE
- SHOW AND LABEL ALL SURVEY-LINES USED FOR LOCATIONS

2. THE WORDS "AS-BUILT" IN AT LEAST ONE-INCH HIGH LETTERS

3. MATERIALS CERTIFICATION STATEMENT SIGNED BY THE CONTRACTOR

4. SIGNED ENGINEER'S CERTIFICATION STATEMENT

5. INFORMATION PERTAINING TO BENCHMARK(S) (LOCATION, ELEVATION, AND REFERENCE TYPE)

6. SHOW STATE PLANE COORDINATE (NAD. 83)

REFERENCES ON AT LEAST FOUR (4) BOUNDARY CORNERS AND ON ALL PRM(S) (ONE POSITION, TO BE KNOWN AS THE "NORTHING," SHALL GIVE THE POSITION IN A NORTH AND SOUTH DIRECTION; THE OTHER, TO BE KNOWN AS THE "EASTING," SHALL GIVE THE POSITION IN AN EAST AND WEST DIRECTION, REF. F.S CH. 177.151) FOR PLATS AND AS-BUILTS.

BENCHMARKS

PERMANENT BENCHMARKS ARE TO BE SITUATED AS TO FACILITATE LOT GRADING (I.E. TOP OF METAL CURB HOODS, MANHOLE RIMS, ETC.). AT LEAST TWO (2) PERMANENT BENCHMARKS SHALL BE ESTABLISHED WITHIN A SUBDIVISION OR IN EACH PHASE OF A SUBDIVISION AND LOCATED SO THAT NO LOT IS MORE THAN ONE THOUSAND FEET (1,000') FROM A BENCHMARK. PLEASE REFERENCE EACH BENCHMARK BY STATION.

PAVING

STATIONS, OFFSETS, AND ELEVATIONS ON

- CENTER-LINE OR PROFILE GRADE LINE
- TOP OF CURB
- GUTTER OR EDGE OF PAVEMENT (SPECIFY WHICH)
- BACK OF SIDEWALKS

A MINIMUM OF EVERY 100 FEET AND AT THE FOLLOWING CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT:

- PVC, PC AND PVT
- LOW AND HIGH POINTS
- CURB RETURNS
- CENTERLINE INTERSECTIONS
- BEGIN AND END VALLEY GUTTER
- BEGIN AND END SUPERELEVATION TRANSITION
- BEGIN AND END FULL SUPERELEVATION
- BEGIN AND END ROADWAY TRANSITION
- GUTTER LINE (CUL-DE-SAC EVERY 25')

DRAINAGE

7. LOCATION OF ALL DRAINAGE STRUCTURES. LOCATION SHOULD BE BY STATION AND OFFSET WHENEVER POSSIBLE, OTHERWISE STRUCTURES MUST BE TIED DOWN FROM AT LEAST TWO DIRECTIONS.

8. SIZES, LENGTHS, AND TYPES OF DRAINAGE PIPES INCLUDING UNDERDRAIN.

9. INFORMATION FOR ALL STRUCTURES TO INCLUDE:

- PIPE INVERT ELEVATIONS INCLUDING UNDERDRAIN
- TOP OR GRATE ELEVATIONS (SPECIFY WHICH)
- WEIR OR SLOT ELEVATIONS AND SIZES

10. CROSS SECTIONS THROUGH ALL SWALE AND DITCH CONSTRUCTION A MINIMUM OF EVERY 25 FEET TO INCLUDE ELEVATIONS AND LOCATIONS OF THE CENTERLINE OR TOES OF SLOPE (SPECIFY WHICH) AND THE TOPS OF BANK.

11. INFORMATION FOR RETENTION / DETENTION BASINS TO INCLUDE:

- ELEVATIONS AND LOCATIONS ALONG THE TOP OF BANK A MINIMUM OF EVERY 100 FEET
- DATED ELEVATION OF THE WATER STAGE AT THE TIME OF AS-BUILT
- TIES FROM THE TOP OF BANK TO THE WATERS EDGE A MINIMUM OF EVERY 100 FEET
- ELEVATIONS ALONG THE BOTTOM OF BASIN (2 SHOTS PER AVERAGE POND ACREAGE)

12. INFORMATION FOR CONTROL STRUCTURE TO INCLUDE:

- LOCATION
- TOP ELEVATION
- WEIR OR SLOT ELEVATION AND SIZE
- ELEVATION AND SIZE OF DRAWDOWN ORIFICE
- LENGTH, SIZE, AND INVERTS (AT HIGH AND LOW POINTS) OF FILTER DRAIN
- INVERT OF OUTFALL PIPE

13. SHOW ALL DRAINAGE EASEMENTS, ENCROACHMENTS WITHIN THE EASEMENTS, AND ANY ENCROACHMENTS OF DRAINAGE OUTSIDE OF EASEMENTS.

SIGNAGE

14. THE LOCATION OF ALL STREET SIGNS SHALL BE SHOWN BY STATION AND OFFSET WHENEVER POSSIBLE, OTHERWISE, THE SIGNS MUST BE TIED DOWN FROM AT LEAST TWO DIRECTIONS.

ADDITIONAL NOTES

15. ALL PROPOSED ELEVATIONS SHALL BE CHECKED FOR APPROVAL; ADDITIONAL ELEVATIONS MAY BE REQUIRED TO CHECK FOR POSITIVE DRAINAGE.

16. ALL CUL-DE-SAC CURBING SHALL BE SURVEYED EVERY 25'.

17. SUBMIT THE BLUE-LINE OR BLACK-LINE (THE FINAL SET MUST BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, LICENSED BY THE STATE OF FLORIDA) WITH THE CAD DISK FIVE (5) DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.

18. WATER MANAGEMENT APPROVALS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE.

19. AS-BUILTS SHALL BE SIGNED IN, IF REVISIONS ARE REQUIRED, THE COMPANY WILL BE NOTIFIED TO PICK THEM UP AND SIGN THEM OUT. ONCE REVISIONS HAVE BEEN MADE, THE DOCUMENTS SHALL BE SIGNED BACK IN.

20. THE FILES ON THE CAD DISK SHOULD REFLECT THE SITE WITHOUT ADDITIONAL EDITING.

Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young
State of Florida, Professional Engineer, License No. 70780
This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.
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FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

IMEG The FUTURE. Built Smarter.
9133 R.G. SKINEER PARKWAY, SUITE 1
JACKSONVILLE, FL

SUBMITTAL:	ISSUE DATE:
100% CONSTRUCTION DOCUMENTS	4/11/2024

REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:

GENERAL NOTES

PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

C0.10

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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. 700-010. SIGN PLACEMENT SHALL BE PER FDOT INDEX NO. 700-101.

PARKING BY DISABLED PERMIT ONLY — FTP-20-06 (12" X 18") PER FDOT INDEX NO. 700-102

STOP — R1-1 "STOP" - SEE PLANS FOR SIZE

SITE INFORMATION

- EX. PROPERTY LINE
- LANDSCAPE BUFFER LINE
- BUILDING SETBACK LINE
- WETLAND LIMITS LINE
- WETLAND SETBACK LINE
- CENTER LINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE
- SF — SF: SILT FENCE LINE
- TB — TB: 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
- 99: EX. ELEVATION CONTOUR
- 99: PROPOSED CONTOUR
- 93.2×: EX. SPOT ELEVATION
- 93.23: PROPOSED SPOT ELEVATION
- DIRECTION OF SURFACE DRAINAGE FLOW
- PROPOSED SWALE LINE
- X — X: EX. FENCE
- PROPOSED FENCE
- 12" PINE: EX. TREE (SIZE & TYPE)
- 1234: EX. TREE (TREE ID)
- 12" PINE: EX. TREE TO BE REMOVED (SIZE & TYPE)
- 1234: EX. TREE TO BE REMOVED (TREE ID)
- PROJECT BENCHMARK

STORMWATER

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

- ST — ST: 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)
- ST: EX. STORMWATER MANHOLE
- (N-E LOCATION, TOP/RIM ELEV. LOCATION) PROPOSED 48" DIA. STORMWATER MANHOLE PER FDOT INDEX. NO. 425-001 AND 425-010
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED CIRCULAR AREA DRAIN
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED SQUARE AREA DRAIN
- (N-E LOCATION, TOP ELEV. LOCATION) PROPOSED TYPE 1 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP ELEV. LOCATION) PROPOSED TYPE 2 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP ELEV. LOCATION) PROPOSED TYPE 3 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP ELEV. LOCATION) PROPOSED TYPE 4 CURB INLET TOP PER FDOT INDEX NO. 425-020 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP ELEV. LOCATION) PROPOSED TYPE 5 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP ELEV. LOCATION) PROPOSED TYPE 6 CURB INLET TOP PER FDOT INDEX NO. 425-021 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 9 CURB INLET TOP PER FDOT INDEX NO. 425-024 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'C' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'D' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'E' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'F' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'G' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-053 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'H' DITCH BOTTOM INLET TOP PER FDOT INDEX NO. 425-052 (SEE PLANS FOR GRATE MATERIAL AND BOTTOM SPECIFICATION)
- (N-E LOCATION, TOP/GRATE ELEV. LOCATION) PROPOSED TYPE 'J' DITCH BOTTOM INLET TOP WITH STEEL GRATE PER FDOT INDEX NO. 425-054 (SEE PLANS FOR BOTTOM SPECIFICATION)
- (PIPE INV. LOCATION, N-E LOCATION) PROPOSED U-TYPE CONCRETE ENDWALLS WITH GRATES PER FDOT INDEX NO. 430-010 (SEE PLANS FOR SIZE)
- (N-E LOCATION, INV. ELEV. LOCATION) PROPOSED FLARED END SECTION PER FDOT INDEX NO. 430-020 (SEE PLANS FOR SIZE)
- (N-E LOCATION, PIPE INV. ELEV. LOCATION) PROPOSED CROSS DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-021 (SEE PLANS FOR SIZE)
- (N-E LOCATION, PIPE INV. ELEV. LOCATION) PROPOSED SIDE DRAIN MITERED END SECTION PER FDOT INDEX NO. 430-022 (SEE PLANS FOR SIZE)
- S-10: PROPOSED STORMWATER STRUCTURE ID TAG

POTABLE AND RECLAIMED WATER

- W — W: EX. POTABLE WATER MAIN
- P-W: PROPOSED POTABLE WATER MAIN
- RCW — RCW: EX. RECLAIMED WATER MAIN
- P-RCW: 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
- W: EX. WATER WELL
- EX, HOSE BIB (POTABLE AND RECLAIMED)
- PROPOSED HOSE BIB (POTABLE AND RECLAIMED)
- 11: PROPOSED FITTING ID TAG (POTABLE AND RECLAIMED)

WASTEWATER

- SS: EX. GRAVITY WASTEWATER MAIN
- P-WW: PROPOSED GRAVITY WASTEWATER MAIN (PIPE LENGTHS ARE FROM N-E LOCATION OF A STRUCTURE TO N-E LOCATION OF A STRUCTURE)
- FM — FM: EX. WASTEWATER FORCE MAIN
- P-FM: PROPOSED WASTEWATER FORCE MAIN
- SS: EX. WASTEWATER MANHOLE
- (N-E LOCATION, RIM ELEV. LOCATION) PROPOSED WASTEWATER MANHOLE
- EX. WASTEWATER CLEANOUT
- PROPOSED WASTEWATER CLEANOUT
- PROPOSED WASTEWATER GREASE TRAP
- MH#: 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.

- P-ATT: PROPOSED AT&T LINE
- BC — BC: EX. BURIED CABLE LINE
- P-BC: PROPOSED BURIED CABLE LINE
- BTEL: EX. BURIED TELEPHONE LINE
- P-TEL: PROPOSED TELEPHONE LINE
- CATV: EX. CABLE TELEVISION LINE
- P-TV: PROPOSED CABLE/TELEVISION LINE
- FO — FO: EX. FIBER OPTIC LINE
- UGTEL: EX. UNDERGROUND TELEPHONE LINE
- te: EX. TELEPHONE PEDESTAL
- TV: EX. TELEVISION/CABLE PEDESTAL
- CHW — CHW: EX. CHILLED WATER MAIN
- P-CHW: PROPOSED CHILLED WATER MAIN
- FIRE: EX. FIRE MAIN
- P-FIRE: PROPOSED FIRE MAIN
- IRR — IRR: EX. IRRIGATION LINE
- P-IRR: PROPOSED IRRIGATION LINE
- STEAM: EX. STEAM LINE
- P-STEAM: PROPOSED STEAM LINE
- P-CLAY: PROPOSED CLAY ELECTRIC LINE
- E — E: EX. ELECTRIC LINE
- P-E: PROPOSED ELECTRIC LINE
- EN — EN: EX. ENERGY LINE
- P-LIGHT: PROPOSED PRIVATE LIGHTING LINE
- OHW — OHW: EX. OVERHEAD WIRE LINE
- UGE — UGE: EX. UNDERGROUND ELECTRIC LINE
- EX. LIGHT
- EX. UTILITY POLE
- EX. UTILITY POLE
- EX. WOOD POWER POLE
- EX. GUY ANCHOR
- T: PROPOSED TRANSFORMER
- GAS — GAS: EX. GAS LINE
- P-GAS: PROPOSED GAS LINE
- G: EX. GAS MARKER
- G: 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.

Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young, State of Florida, Professional Engineer, License No. 70780

This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.

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FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
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SUBMITTAL:		ISSUE DATE:
100% CONSTRUCTION DOCUMENTS		4/11/2024
REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:

LEGEND

PROJECT NO.:	23-204	DRAWN BY:	TFC
		CHECKED BY:	TJH

C0.11

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 USING STANDARD PRACTICE AND BEST MANAGEMENT PRACTICES (BMPs) AND IS ORGANIZED TO CORRESPOND TO 62-621.300(4)(a) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FDEP FORM 62-621.300(4)(b) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT. CONTRACTOR(S) MUST FILL IN THE ACTIVITIES SEQUENCE (SECTION ii. B. BELOW) AND SIGN THIS SHEET (REFER TO SIGNATURE TABLE THIS SHEET) AND RETAIN THIS SHEET AND ALL FOLLOWING SWPPP SHEETS ON SITE. ALTERNATIVELY, CONTRACTOR(S) MAY PREPARE AND SIGN THEIR OWN SWPP PLAN MEETING THE REQUIREMENTS. IF THE SITE OR CONTRACTOR ACTIVITIES REQUIRE ANY BMPs THAT ARE NOT DESCRIBED ON THIS SHEET, THE CONTRACTOR MUST PREPARE AN ALTERNATIVE OR ADDITIONAL SWPPP DOCUMENT CONTAINING THE NECESSARY BMPs.

II. SITE DESCRIPTION

COUNTY: CLAY COUNTY, FLORIDA
SECTION, TOWNSHIP, RANGE: SECTION 38, TOWNSHIP 06 SOUTH, RANGE 26 EAST
COUNTY PARCEL NO.: 36-06-26-017628-000-00
STREET ADDRESS: 633 N ORANGE AVE, GREEN COVE SPRINGS, FL 32043
PROJECT AREA: 1.65 ACRES
SITE LOCATION MAP: SEE COVER SHEET OF CONSTRUCTION DRAWINGS

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROPOSED DEVELOPMENT IS THE CONSTRUCTION OF A ±36,000 ECONOMIC DEVELOPMENT BUILDING FOR CLAY COUNTY AND ASSOCIATED PAVEMENT FOR DRIVEWAYS AND PARKING, SIDEWALKS, UTILITIES, AND SEVEN UNDERGROUND STORMWATER MANAGEMENT FACILITIES. THE PROJECT SITE IS LOCATED AT 633 NO ORANGE AVE, GREEN COVE SPRINGS, FLORIDA. THE PROJECT SITE TOTAL AREA IS APPROXIMATELY 1.65 ACRES.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES - CONTRACTOR MUST FILL IN DAYS

DAYS

FROM_______TO_______ PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013, AND THESE PLANS.
FROM_______TO_______ THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.
FROM_______TO_______ ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.
FROM_______TO_______ THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.
FROM_______TO_______ 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.
FROM_______TO_______ THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.
FROM_______TO_______ THE PERMANENT ROADWAYS/DRIVEWAYS SHALL BE ROUGHLY GRADED.
FROM_______TO_______ 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).
FROM_______TO_______ THE PERMANENT ROADWAY/DRIVEWAY SUBGRADE SHALL BE COMPACTED, A LIMEROCK BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF ASPHALT.
FROM_______TO_______ UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
FROM_______TO_______ UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING SYSTEM, THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND SHALL 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. ONCE COMPLETED, NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY(S).
FROM_______TO_______ ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THESE PLANS. TURF ESTABLISHMENT SHALL BE PER FDOT STANDARD SPECIFICATIONS SECTION 570. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

C. SITE DEVELOPMENT DATA:

TOTAL PROJECT SITE AREA:	*1.23 ACRES*
TOTAL SITE AREA TO BE DISTURBED:	*1.78 ACRES*
TOTAL IMPERVIOUS AREA (AS SHOWN IN CONSTRUCTION DRAWINGS):	*1.20 ACRES*
TOTAL DETENTION VOLUME:	*0.35 ACRE-FEET*
TOTAL OPEN AREA:	*0.03 ACRES*

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF LEON FINE SAND. GSE ENGINEERING & CONSULTING, INC. CONDUCTED A GEOTECHNICAL EXPLORATION OF THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) LOCATION IN JULY OF 2023. THE INVESTIGATION REVEALED THAT THE PROJECT SITE'S SURFACE SOILS HAVE THE FOLLOWING CHARACTERISTICS:

DEPTH TO EFFECTIVE OR MOBILIZED AQUIFER:	*25 FEET BLS*
DEPTH OF SEASONAL HIGH WATER TABLE:	*2.0 FEET BLS*
HORIZONTAL HYDRAULIC CONDUCTIVITY:	*6 FEET/DAY*
UNSATURATED VERTICAL INFILTRATION:	*20 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 RATE CONTROL AND WATER QUALITY TREATMENT OF THE STORMWATER RUNOFF RESULTING FROM THE POST-DEVELOPMENT SITE UNDER 25-YEAR & MEAN ANNUAL 24-HOUR 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)	25-YEAR FLOOD ELEVATION (FT)
1	0.25	97	0.24	DRY RETENTION	0.092	14.82
2	0.56	97	0.55	DRY RETENTION	0.193	13.57
3	0.42	97	0.41	DRY RETENTION	0.063	13.95

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 OUTFALL STRUCTURE IS LOCATED AT THE EAST PORTION OF THE PROJECT (39°00'00.76" N, 81°41'01.32" W) AND THE ASSOCIATED RECEIVING WATER BODY IS ST JOHNS RIVER.

III. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) 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. ALL TURF ESTABLISHMENT SHALL BE PERFORMED MEETING THE REQUIREMENTS OF SECTION 570 OF THE STANDARD SPECIFICATIONS. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO FINAL RELEASE.

B. STRUCTURE PRACTICES

AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (C0.21), A STORMWATER MANAGEMENT SYSTEM WILL BE CONSTRUCTED AND WILL BE COMPRISED OF A WET RETENTION FACILITY AND A STORM PIPE CONVEYANCE SYSTEM. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCING WILL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED ACCORDING TO THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, DATED JULY 2013 OR PER DETAILS PROVIDED ON SHEET 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," THE SMF(S) WILL BE 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 1.23 ACRES AND WILL CONSIST OF APPROXIMATELY 1.65 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 STANDARD SPECIFICATIONS SECTION 570, TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVER-USE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. TOXIC MATERIAL

THE CONSTRUCTION SITE WILL BE IN FULL COMPLIANCE WITH STATE AND FEDERAL REQUIREMENTS. A PLASTIC MAT, TAR PAPER, OR OTHER IMPERVIOUS MATERIAL SHALL BE PLACED UNDER AREAS WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.

F. HAZARDOUS MATERIALS

ALL HAZARDOUS MATERIALS SHALL BE STORED IN A SECURE LOCATION, UNDER COVER, AND IN APPROPRIATE TIGHTLY, SEALED CONTAINERS WHEN NOT IN USE. ALL PRODUCTS SHALL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL. CONTAINERS MUST BE STORED IN A MANNER TO PROTECT THEM FROM THE ELEMENTS AND INCIDENTAL DAMAGE. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS SHALL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.

ALL PRODUCTS SHALL BE USED IN STRICT COMPLIANCE WITH THE INSTRUCTIONS ON THE PRODUCT LABEL.

SUFFICIENT EQUIPMENT AND/OR MATERIALS SHALL BE KEPT ONSITE TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS IN THE AREAS WHERE THESE MATERIALS ARE STORED OR USED. SPILL CONTROL AND CONTAINMENT KIT SUPPLIES SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.

CONTRACTOR TO CONTAIN AND CLEAN UP ANY SPILLS IMMEDIATELY AFTER THEY OCCUR. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA, STATE, OR LOCAL AGENCY REGULATIONS SHALL BE REPORTED TO THE APPROPRIATE AGENCIES IN THE REQUIRED TIME FRAMES. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE OWNER IMMEDIATELY UPON IDENTIFICATION OF ANY SPILL.

ALL EXCESS, USED, OR SPILLED PRODUCTS, INCLUDING CONTAMINATED SOIL, SHALL BE DISPOSED OF BY THE CONTRACTOR IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL AND ALL APPLICABLE REGULATIONS.

VII. APPROVED STATE AND LOCAL PLANS

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

** CITY OF GREEN COVE SPRINGS*
** FLORIDA DEPARTMENT OF TRANSPORTATION*
** ST. JOHNS RIVER 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 "????????????????????????????????".

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. THE CONTRACTOR MAY USE THEIR OWN FORM (MEETING FDEP SWPPP REQUIREMENTS) OR A SAMPLE FORM FROM FDEP. A SAMPLE CONSTRUCTION FORM IS AVAILABLE AT: "HTTPS://FLORIDADEP.GOV/WATER/STORMWATER/DOCUMENTS/CONSTRUCTION-SWPPP". 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. 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.

Contractor/Subcontractor Certification Statement
Stormwater Pollution Prevention Plan

Site Name: Clay County Economic Development Building
Site Location: 633 N Orange Ave
Clay County, Florida

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

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.

DATE	RESPONSIBLE INDIVIDUAL'S NAME	RESPONSIBLE INDIVIDUAL'S SIGNATURE	TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER

Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young,
State of Florida, Professional Engineer, License No. 70780

This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG mitchell + gulledge engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

IMEG The FUTURE. Built Smarter.
9133 R.G. SKINEER PARKWAY, SUITE 1
JACKSONVILLE, FL

SUBMITTAL:		ISSUE DATE:
100% CONSTRUCTION DOCUMENTS		4/11/2024
REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:
STORMWATER POLLUTION PREVENTION NOTES

PROJECT NO.: 23-204
DRAWN BY: TFC
CHECKED BY: TJH

C0.20

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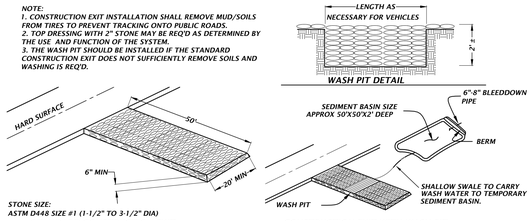
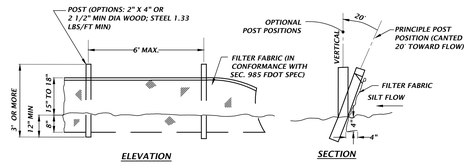
NOTE:
1. CONSTRUCTION EXIT INSTALLATION SHALL REMOVE MUD/SOILS FROM TIRES TO PREVENT TRACKING ONTO PUBLIC ROADS.
2. TOP DRESSING WITH 2" STONE MAY BE REQ'D AS DETERMINED BY THE USE AND FUNCTION OF THE SYSTEM.
3. THE WASH PIT SHOULD BE INSTALLED IF THE STANDARD CONSTRUCTION EXIT DOES NOT SUFFICIENTLY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



TEMPORARY CONSTRUCTION EXIT DETAIL
NTS



TYPE III SILT FENCE DETAIL
NTS

TYPICAL INSTALLATION SEQUENCE FOR SILT-SAVER FRAME AND FILTER

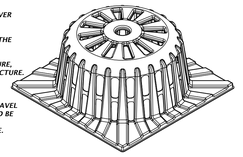
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.

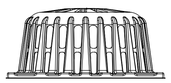
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.

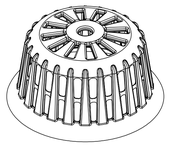
3. SLIDE THE FILTER OVER THE FRAME.

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.

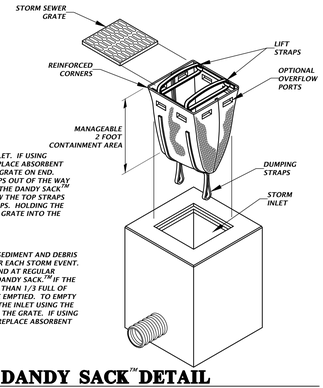
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.







SILT-SAVER® DETAIL
NTS



INSTALLATION:

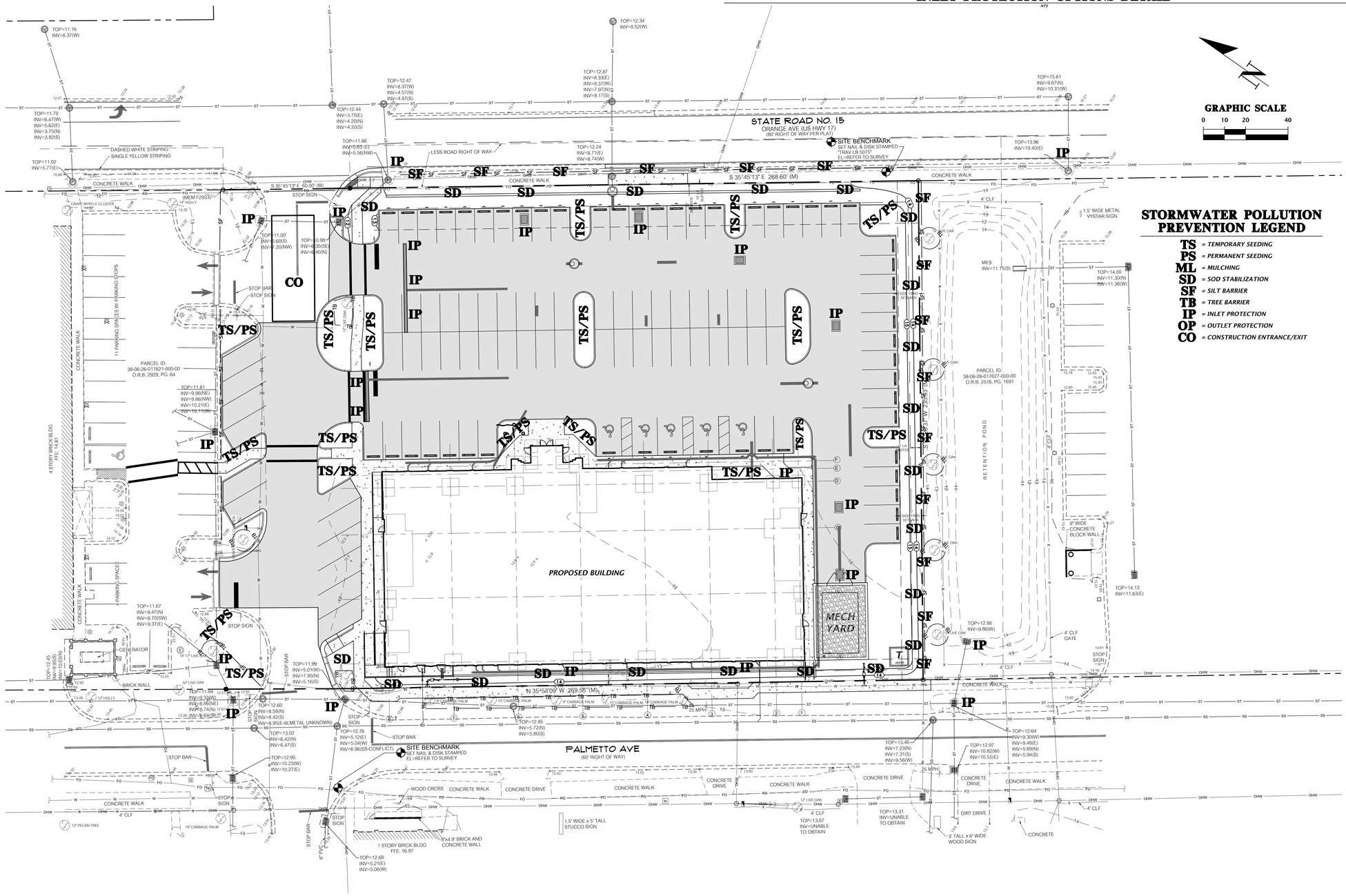
REMOVE THE GRATE FROM INLET. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK™ SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES,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

INLET PROTECTION OPTIONS 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

GRAPHIC SCALE
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Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG
Daniel H. Young, State of Florida, Professional Engineer, License No. 70780
This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

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JACKSONVILLE, FL

SUBMITTAL:	ISSUE DATE:
100% CONSTRUCTION DOCUMENTS	4/11/2024

REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

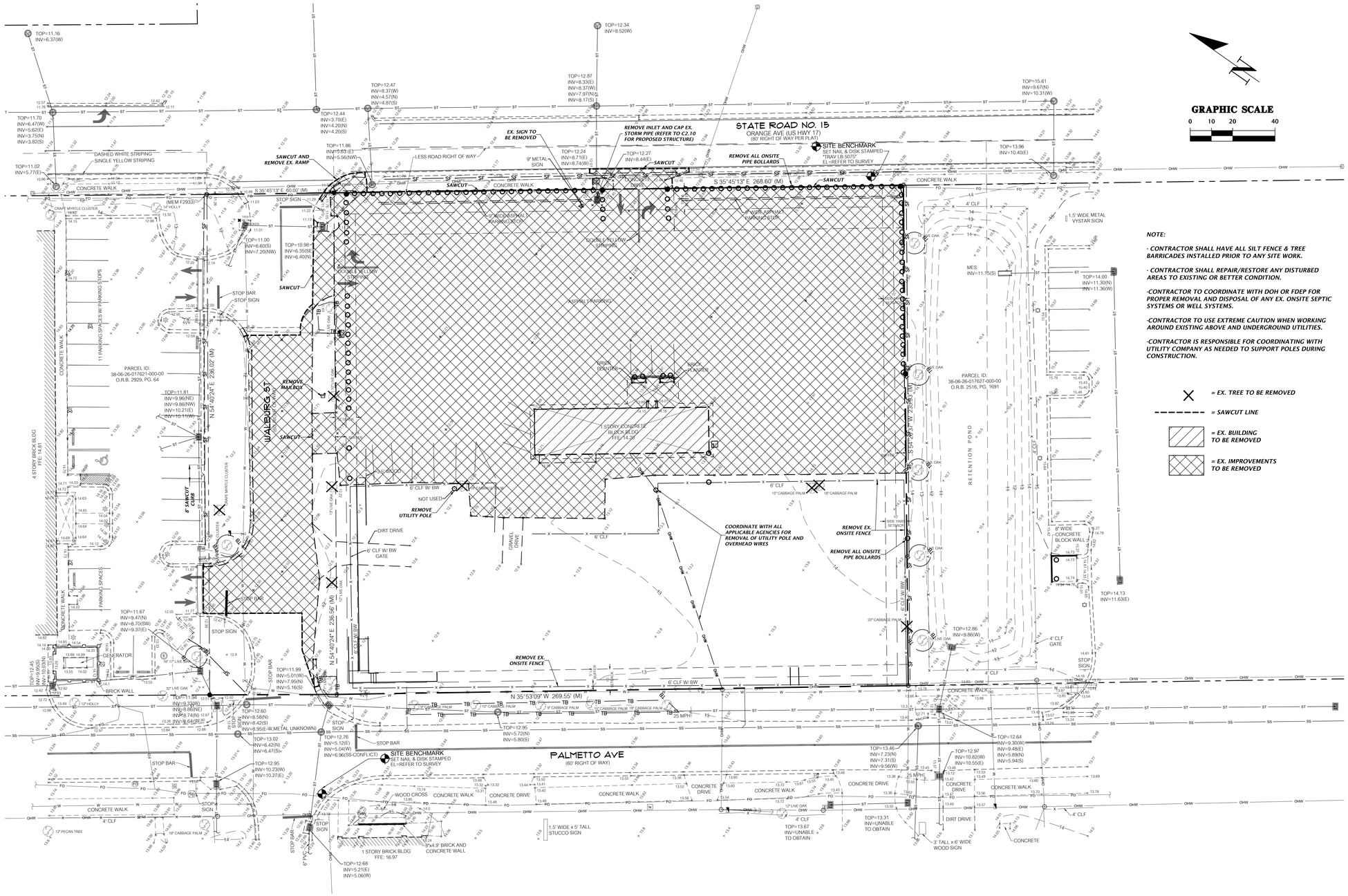
633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:
STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO.: 23-204	DRAWN BY: TFC
	CHECKED BY: TJH

C0.21



NOTE:

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

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

-CONTRACTOR TO COORDINATE WITH DOH OR FDEP FOR PROPER REMOVAL AND DISPOSAL OF ANY EX. ONSITE SEPTIC SYSTEMS OR WELL SYSTEMS.

-CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING ABOVE AND UNDERGROUND UTILITIES.

-CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANY AS NEEDED TO SUPPORT POLES DURING CONSTRUCTION.

✕	*= EX. TREE TO BE REMOVED*
– – – –	*= SAWCUT LINE*
▨	*= EX. BUILDING TO BE REMOVED*
▩	*= EX. IMPROVEMENTS TO BE REMOVED*

Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young,
State of Florida, Professional Engineer, License No. 70780

This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.

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FL PE No. 70780

CHW
Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG
mitchell + gulledge
engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

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9133 R.G. SKINEER PARKWAY, SUITE 1
JACKSONVILLE, FL

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REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:

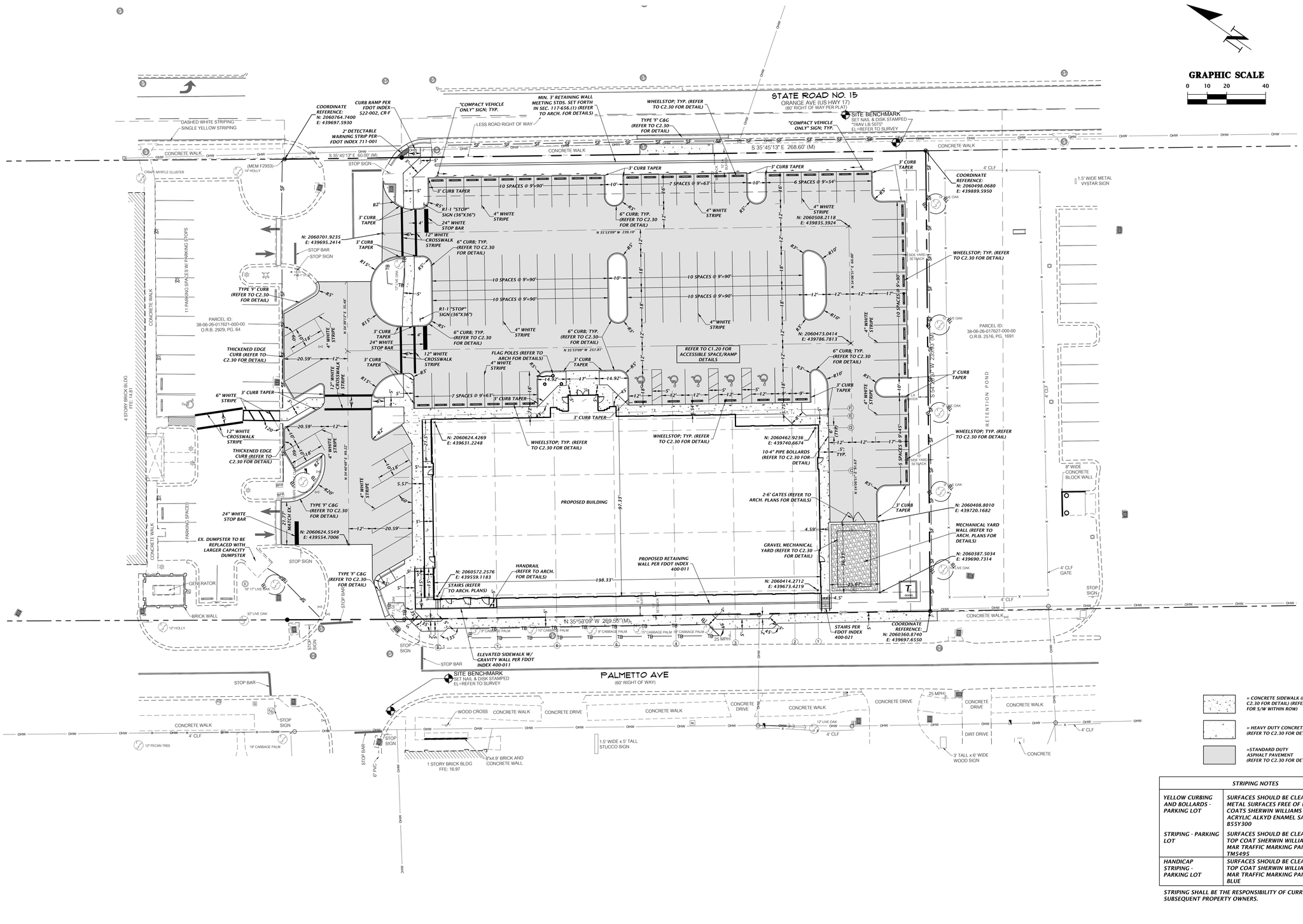
DEMOLITION AND TREE PROTECTION PLAN

PROJECT NO.:	23-204	DRAWN BY:	TFC
		CHECKED BY:	TJH

C0.30

7/27/2023 8:57:42 AM

Tech: ThomasC Plot Date: Jul 11,2024 3:35pm Filename: N:\2023\23-0204\Departments\04_Engineering\02_DWGs\Production Files\23-0204 DM.dwg



= CONCRETE SIDEWALK (REFER TO C2.30 FOR DETAIL) (REFER TO C2.32 FOR S/W WITHIN ROW)

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

=STANDARD DUTY ASPHALT PAVEMENT (REFER TO C2.30 FOR DETAIL)

STRIPING NOTES	
YELLOW CURBING AND BOLLARDS - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300
STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT WHITE TM5495
HANDICAP STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT "H.C." BLUE

STRIPING SHALL BE THE RESPONSIBILITY OF CURRENT AND ALL SUBSEQUENT PROPERTY OWNERS.

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REVISION DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

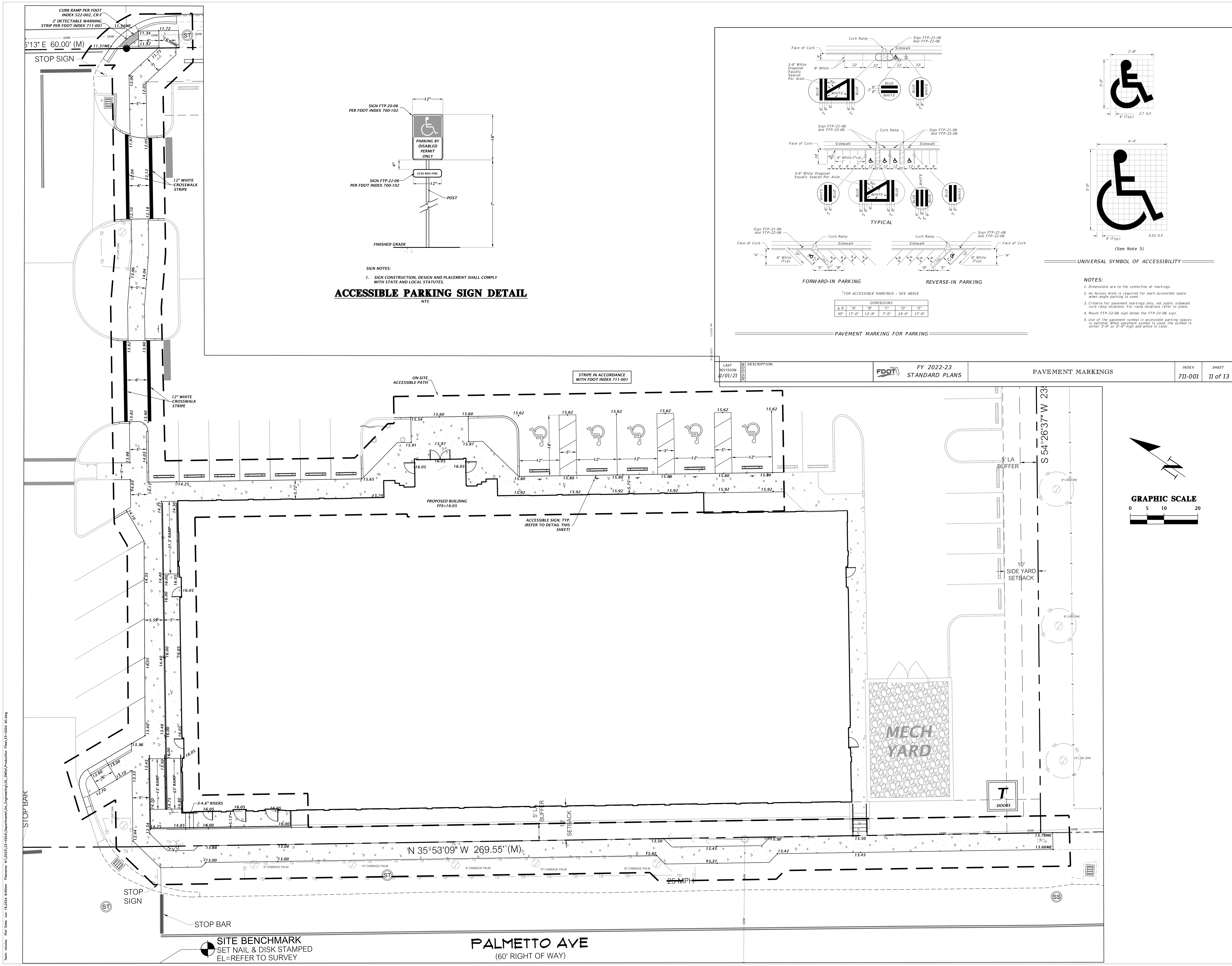
KEY PLAN

DRAWING TITLE:

DETAILED HORIZONTAL CONTROL AND SITE PLAN

PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

C1.10



ACCESSIBLE PARKING SIGN DETAIL
NTS
SIGN FTP-20-06 PER FDOT INDEX 700-102
PARKING BY DISABLED PERMIT ONLY
$250 MAX FINE
SIGN FTP-22-06 PER FDOT INDEX 700-102
POST
FINISHED GRADE
SIGN NOTES:
1. SIGN CONSTRUCTION, DESIGN AND PLACEMENT SHALL COMPLY WITH STATE AND LOCAL STATUTES.
FORWARD-IN PARKING
REVERSE-IN PARKING
TYPICAL
UNIVERSAL SYMBOL OF ACCESSIBILITY
PAVEMENT MARKING FOR PARKING
NOTES:
1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Mount FTP-22-06 sign below the FTP-21-06 sign.
5. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.
FY 2022-23 STANDARD PLANS
PAVEMENT MARKINGS
711-001
11 of 13
CURB RAMP PER FDOT INDEX 522-002, CR-F
2' DETECTABLE WARNING STRIP PER FDOT INDEX 711-001
STOP SIGN
12" WHITE CROSSWALK STRIPE
ON-SITE ACCESSIBLE PATH
STRIPE IN ACCORDANCE WITH FDOT INDEX 711-001
PROPOSED BUILDING FFE=16.05
ACCESSIBLE SIGN; TYP. (REFER TO DETAIL THIS SHEET)
5' LA BUFFER
10' SIDE YARD SETBACK
S 54°26'37" W
MECH YARD
DOORS
3-4.6" RISERS
N 35°53'09" W 269.55' (M)
25 MPH
STOP SIGN
STOP BAR
SITE BENCHMARK
SET NAIL & DISK STAMPED
EL=REFER TO SURVEY
PALMETTO AVE
(60' RIGHT OF WAY)
GRAPHIC SCALE
0 5 10 20

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CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

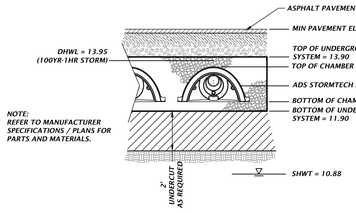
KEY PLAN

DRAWING TITLE:

ON-SITE ACCESSIBILITY PLAN

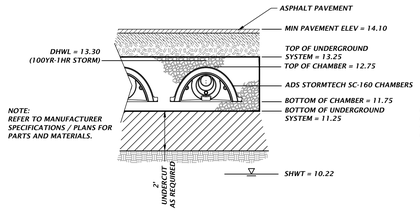
PROJECT NO.: 23-204
DRAWN BY: TFC
CHECKED BY: TJH

C1.20



SMF-3A TYPICAL CROSS SECTION

NTS



SMF-3B TYPICAL CROSS SECTION

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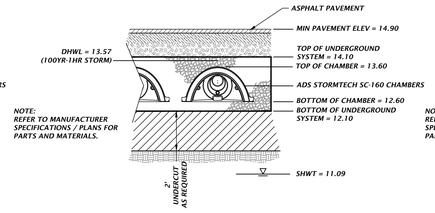
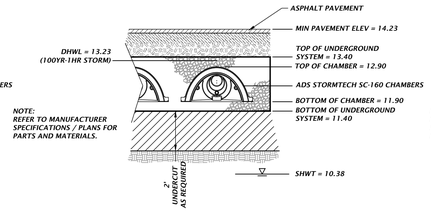


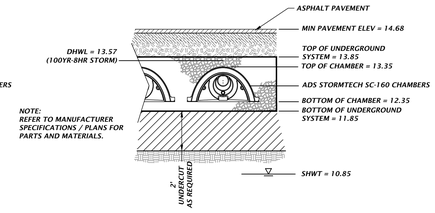
SMF-2A TYPICAL CROSS SECTION

NTS



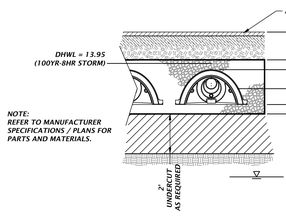
SMF-2B TYPICAL CROSS SECTION

NTS



SMF-2C TYPICAL CROSS SECTION

NTS

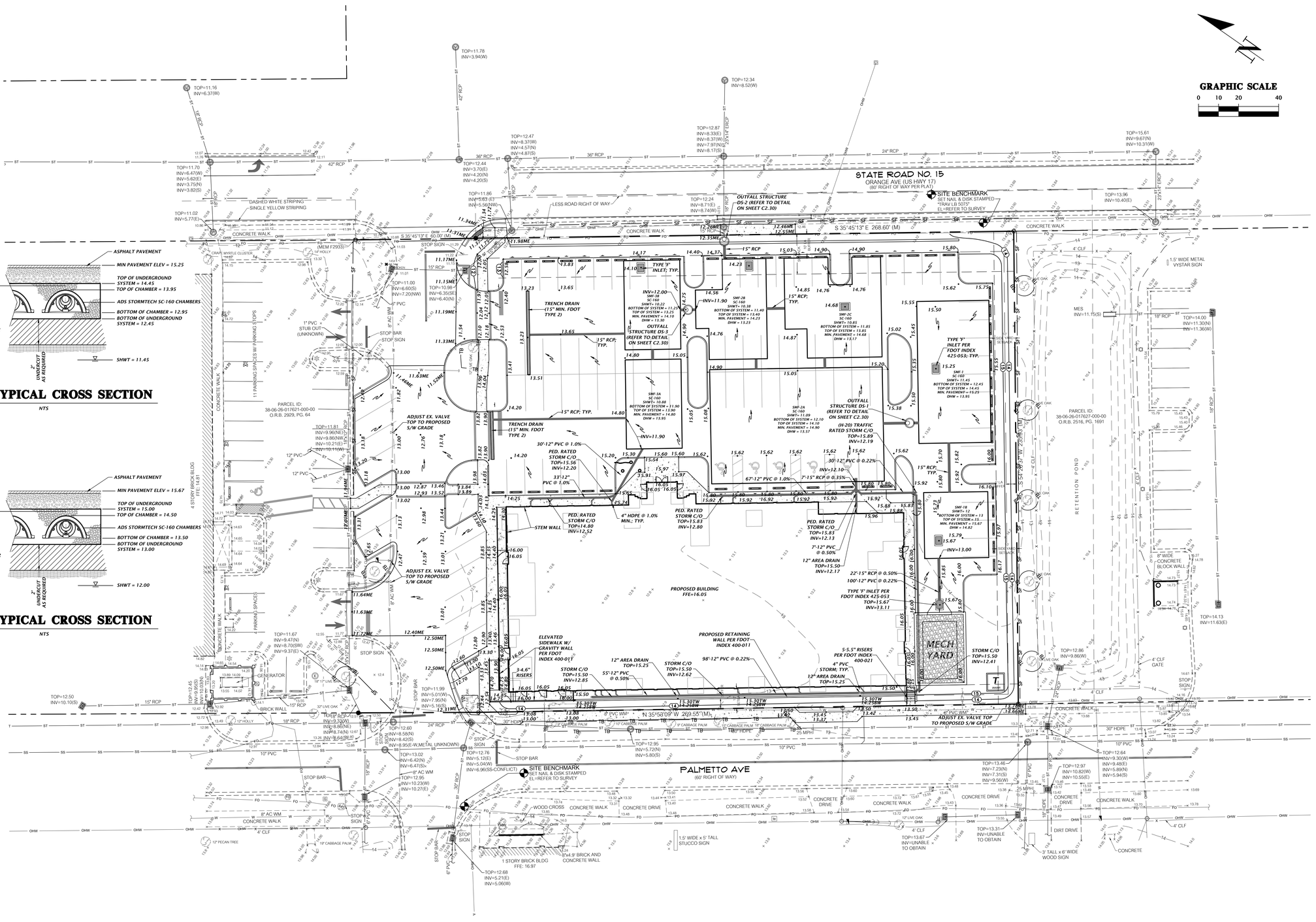


SMF-1A TYPICAL CROSS SECTION

NTS

SMF-1B TYPICAL CROSS SECTION

NTS



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REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:

DETAILED GRADING AND DRAINGE PLAN

PROJECT NO.: 23-204	DRAWN BY: TFC
	CHECKED BY: TJH

C2.10

PROJECT INFORMATION

ENGINEERED PRODUCT MANAGER:	RYAN RAFFERTY 904-673-6572 RYAN.RAFFERTY@ADS-PIPE.COM
ADS SALES REP:	DREW LANE 407-697-9796 DREW.LANE@ADSPIPE.COM
PROJECT NO:	S371901

ADS
Advanced Drainage Systems, Inc.

ADS SiteAssist
FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

CLAY COUNTY ECONOMIC DEVELOPMENT BUILDING

GREEN COVE SPRINGS, FL

SC-160LP STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-160LP.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.5".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN/IN. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-160LP SYSTEM

1. STORMTECH SC-160LP CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-160LP CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
3. FOUNDATION STONE AND EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE; AASHTO M43 #3,357, 4, 467, 5, 56, OR 57.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. THE DEPTH OF FOUNDATION STONE SHALL BE DETERMINED BASED ON THE SUBGRADE BEARING CAPACITY PROVIDED BY THE SITE DESIGN ENGINEER.
6. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES CONCERNING CHAMBER FOUNDATION DESIGN AND SUBGRADE BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
7. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
8. CHAMBERS SHALL BE INSTALLED "TOE TO TOE". NO ADDITIONAL SPACING BETWEEN ROWS IS REQUIRED.
9. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
10. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-160LP CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-160LP CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-106LP CONSTRUCTION GUIDE".
2. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT SMF-1A

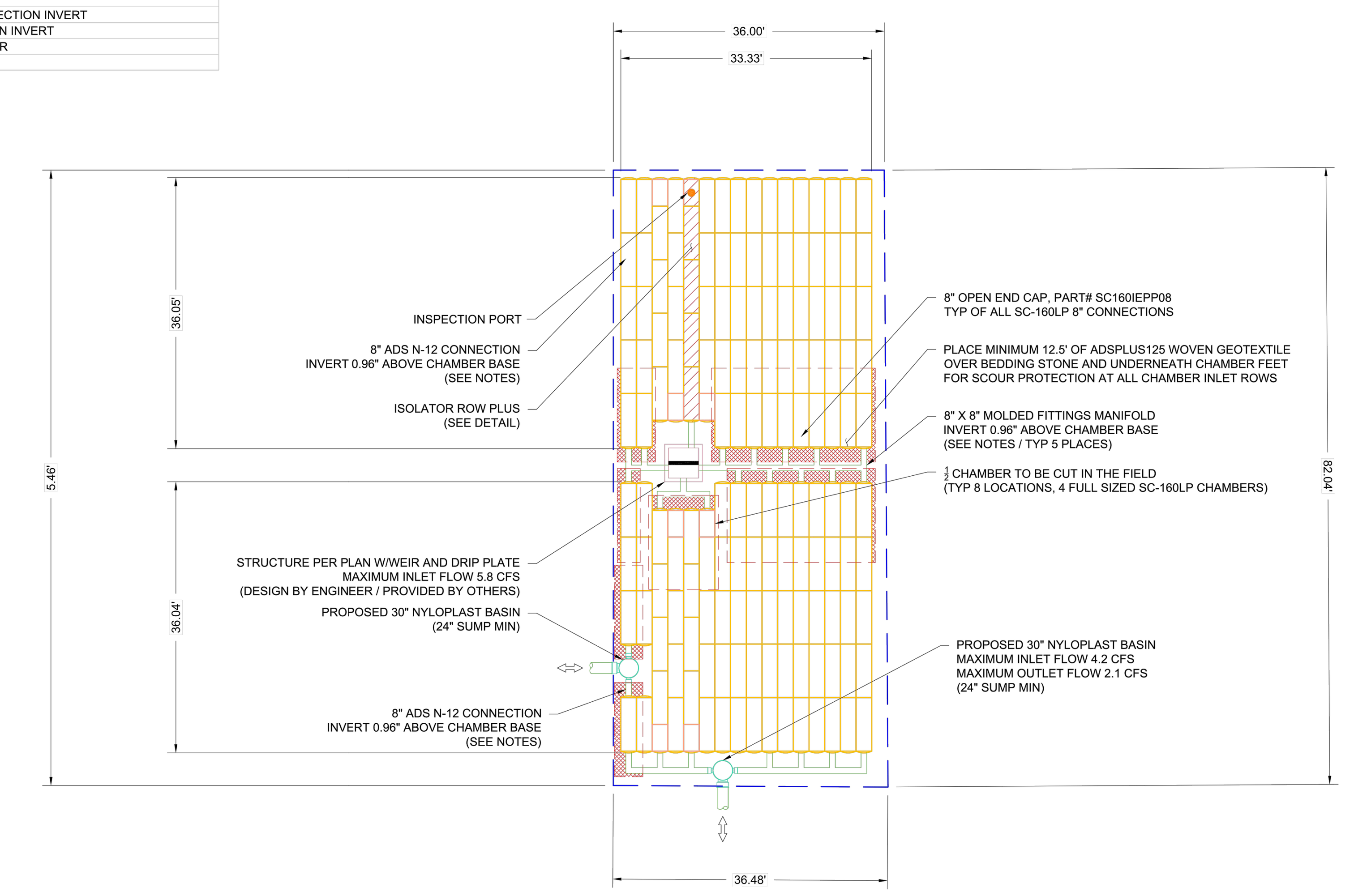
154	STORMTECH SC-160LP CHAMBERS
68	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
2970	SYSTEM AREA (ft²)
236	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-1A

23.95	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
15.62	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
15.12	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
15.12	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
15.12	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
14.45	TOP OF STONE
13.95	TOP OF SC-160LP CHAMBER
13.03	8" ISOLATOR ROW PLUS CONNECTION INVERT
13.03	8" X 8" MANIFOLD / CONNECTION INVERT
12.95	BOTTOM OF SC-160LP CHAMBER
12.45	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



CLAY COUNTY
ECONOMIC DEVELOPMENT BUILDING
GREEN COVE SPRINGS, FL

DATE: 08-20-23 DRAWN: AVM
PROJECT #: S371901 CHECKED: JEK

StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM
4640 TRUEMAN BLVD
HILLIARD, OH 43026

SHEET 2 OF 11

PROPOSED LAYOUT SMF-1B

42	STORMTECH SC-160LP CHAMBERS
50	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
1140	SYSTEM AREA (ft²)
135	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-1B

24.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
16.17	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
15.67	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
15.67	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
15.67	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
15.00	TOP OF STONE
14.50	TOP OF SC-160LP CHAMBER
13.58	8" ISOLATOR ROW PLUS CONNECTION INVERT
13.58	8" X 8" MANIFOLD / CONNECTION INVERT
13.50	BOTTOM OF SC-160LP CHAMBER
13.00	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
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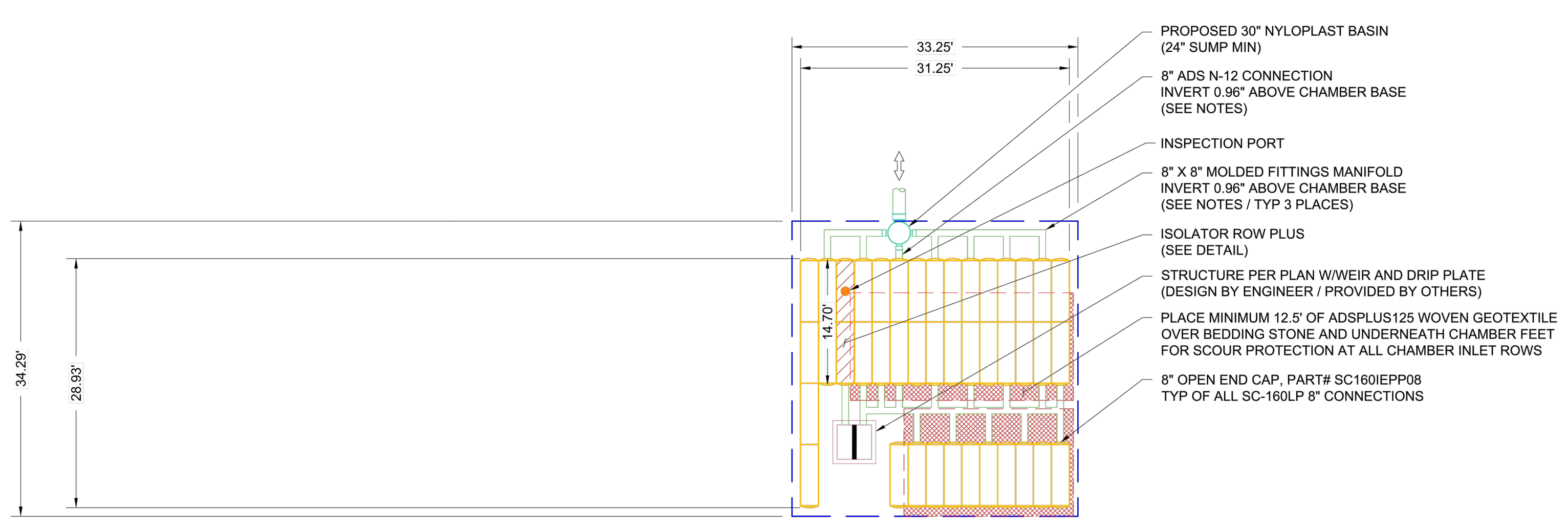

CLAY COUNTY
ECONOMIC DEVELOPMENT BUILDING
GREEN COVE SPRINGS, FL

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HILLIARD, OH 43026

SHEET 3 OF 11

PROPOSED LAYOUT SMF-2A

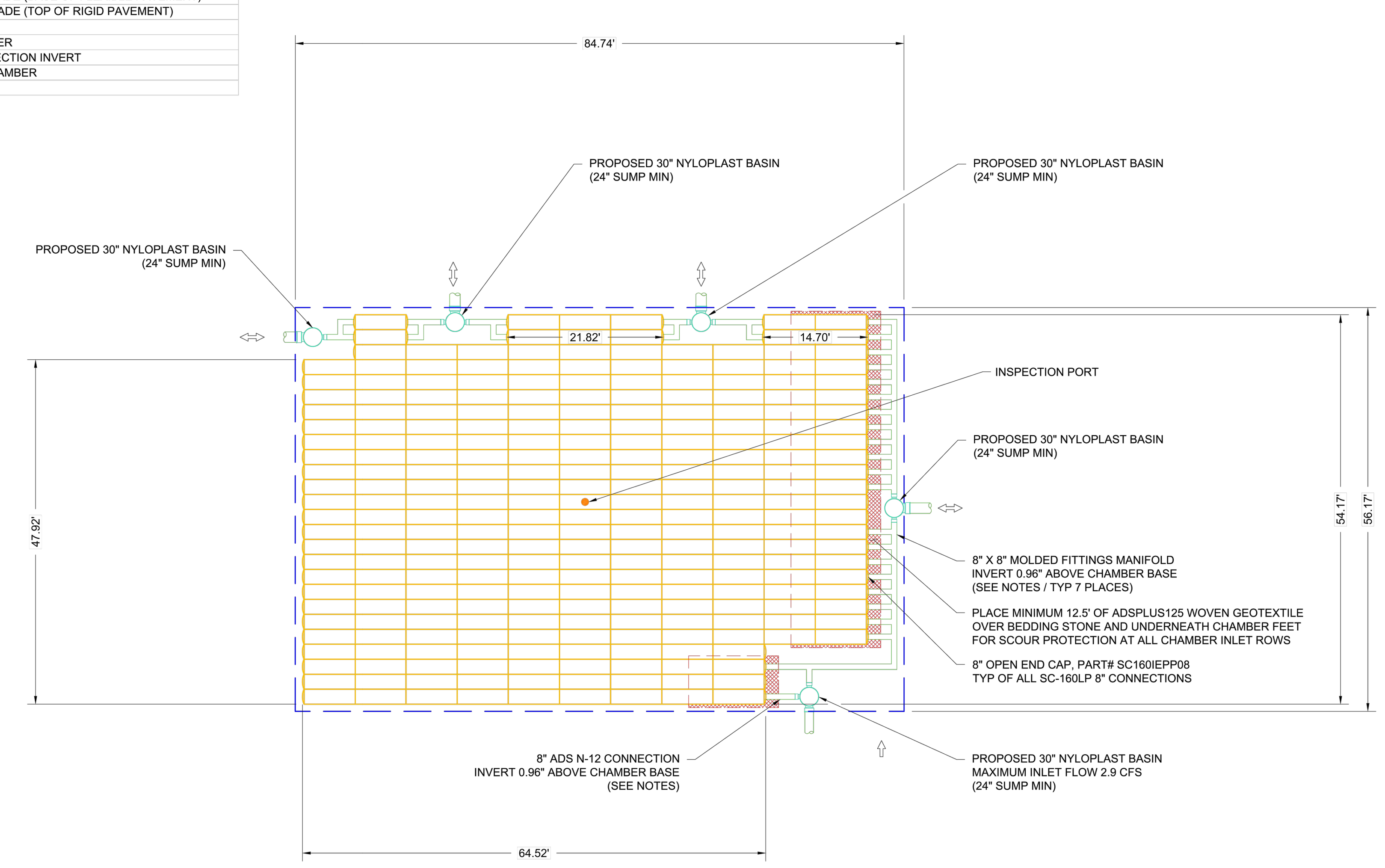
267	STORMTECH SC-160LP CHAMBERS
60	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
4760	SYSTEM AREA (ft²)
282	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-2A

23.60	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
15.27	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
14.77	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
14.77	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
14.77	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
14.10	TOP OF STONE
13.60	TOP OF SC-160LP CHAMBER
12.68	8" X 8" MANIFOLD / CONNECTION INVERT
12.60	BOTTOM OF SC-160LP CHAMBER
12.10	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



CLAY COUNTY
ECONOMIC DEVELOPMENT BUILDING
GREEN COVE SPRINGS, FL

DATE: 08-20-23 DRAWN: AVM
PROJECT #: S371901 CHECKED: JEK

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SHEET 4 OF 11

Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young, State of Florida, Professional Engineer, License No. 70780

This item has been electronically signed and sealed by Daniel H. Young, P.E. on 07/11/2024 using a Digital Signature.

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FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

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JACKSONVILLE, FL

SUBMITTAL:		ISSUE DATE:
100% CONSTRUCTION DOCUMENTS		4/11/2024
REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:

UNDERGROUND STORMWATER MANAGEMENT FACILITY DETAILS

PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

C2.20

PROPOSED LAYOUT SMF-2B

71	STORMTECH SC-160LP CHAMBERS
38	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
1486	SYSTEM AREA (ft²)
171	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-2B

22.90	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
14.57	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
14.07	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
14.07	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
14.07	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
13.40	TOP OF STONE
12.90	TOP OF SC-160LP CHAMBER
11.98	8" ISOLATOR ROW PLUS CONNECTION INVERT
11.98	8" X 8" MANIFOLD INVERT
11.90	BOTTOM OF SC-160LP CHAMBER
11.40	BOTTOM OF STONE

NOTES

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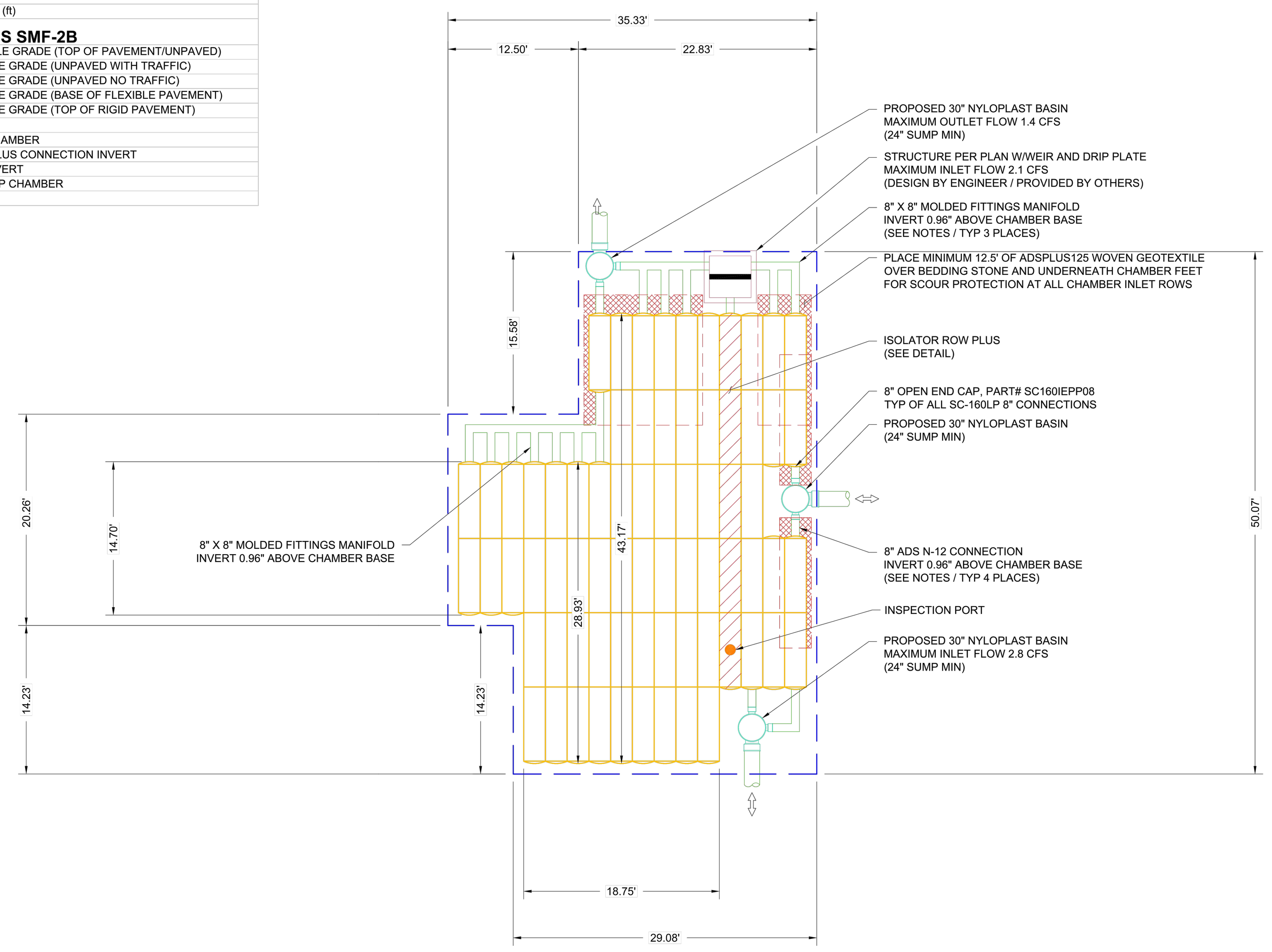

CLAY COUNTY
ECONOMIC DEVELOPMENT BUILDING
GREEN COVE SPRINGS, FL

DATE: 08-20-23 DRAWN: AVM
PROJECT #: S371901 CHECKED: JEK

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SHEET 5 OF 11

PROPOSED LAYOUT SMF-2C

105	STORMTECH SC-160LP CHAMBERS
76	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
2252	SYSTEM AREA (ft²)
224	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-2C

23.35	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
15.02	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
14.52	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
14.52	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
14.52	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
13.85	TOP OF STONE
13.35	TOP OF SC-160LP CHAMBER
12.43	8" ISOLATOR ROW PLUS CONNECTION INVERT
12.43	8" X 8" MANIFOLD INVERT
12.35	BOTTOM OF SC-160LP CHAMBER
11.85	BOTTOM OF STONE

NOTES

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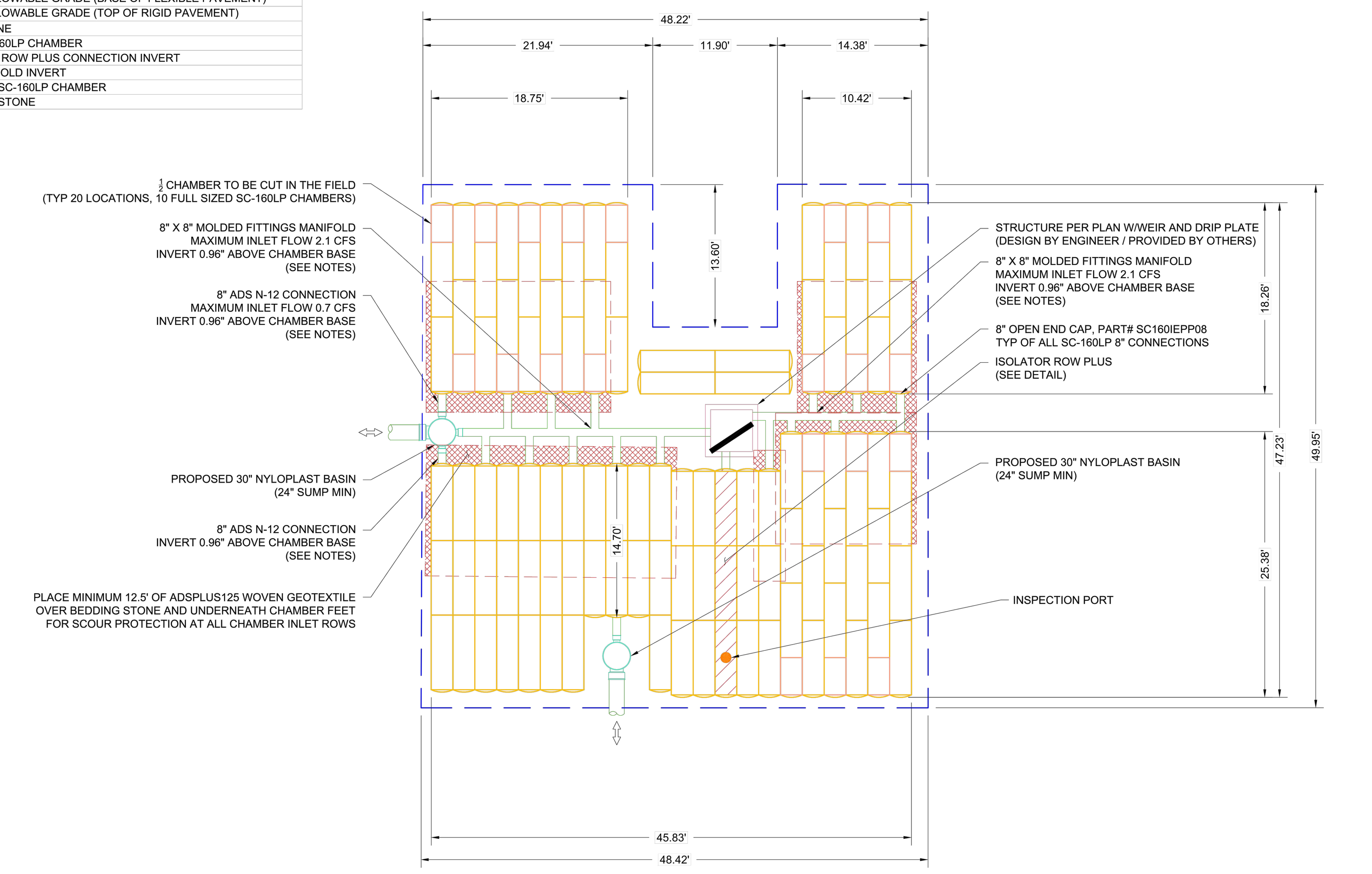

CLAY COUNTY
ECONOMIC DEVELOPMENT BUILDING
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SHEET 6 OF 11

PROPOSED LAYOUT SMF-3A

52	STORMTECH SC-160LP CHAMBERS
36	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
1252	SYSTEM AREA (ft²)
146	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-3A

23.40	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
15.07	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
14.57	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
14.57	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
14.57	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
13.90	TOP OF STONE
13.40	TOP OF SC-160LP CHAMBER
12.48	8" ISOLATOR ROW PLUS CONNECTION INVERT
12.48	8" X 8" MANIFOLD INVERT
12.40	BOTTOM OF SC-160LP CHAMBER
11.90	BOTTOM OF STONE

NOTES

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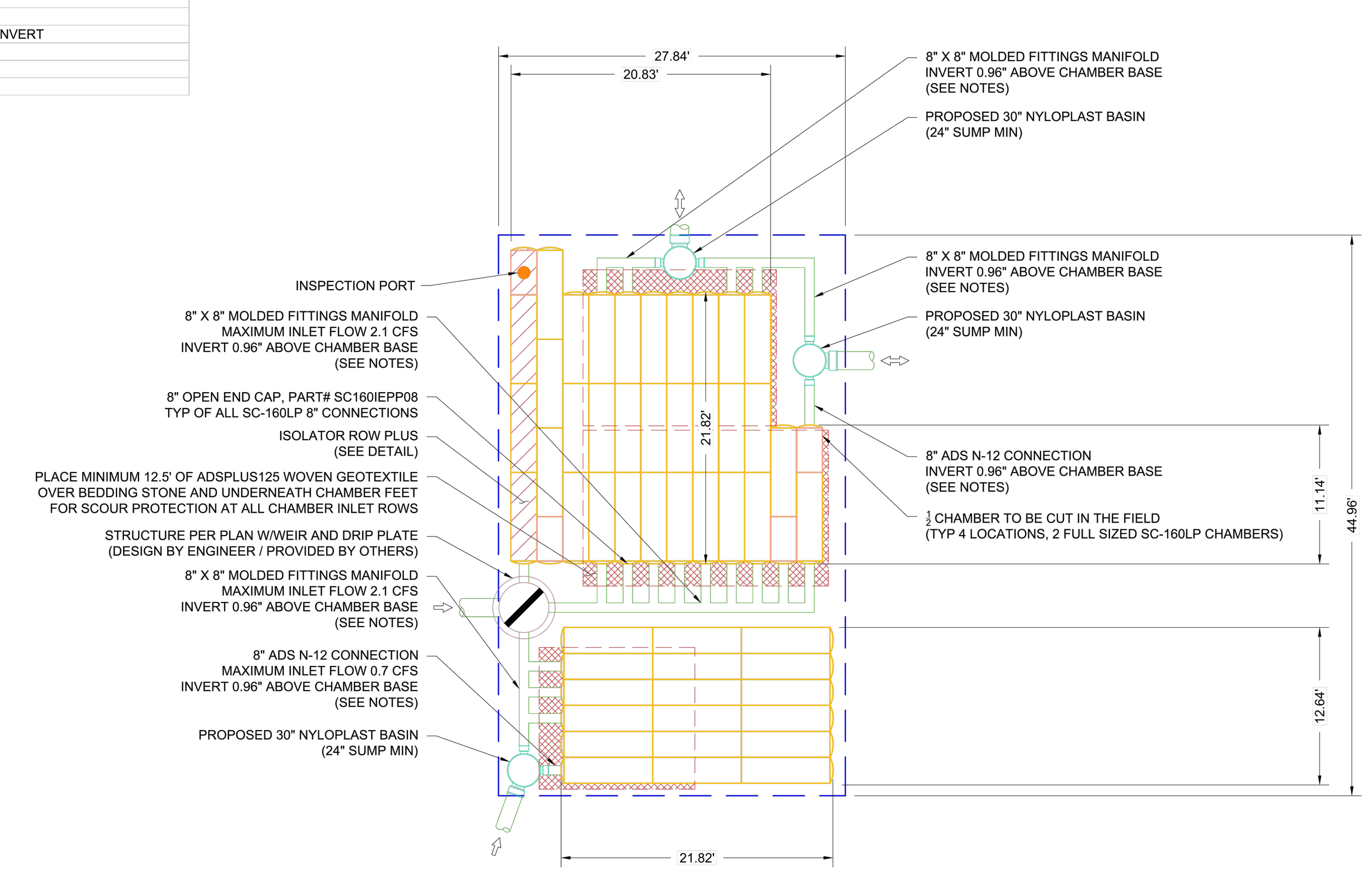

CLAY COUNTY
ECONOMIC DEVELOPMENT BUILDING
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SHEET 7 OF 11

PROPOSED LAYOUT SMF-3B

53	STORMTECH SC-160LP CHAMBERS
24	STORMTECH SC-160LP END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
1197	SYSTEM AREA (ft²)
143	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS SMF-3B

22.75	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
14.42	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
13.92	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
13.92	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
13.92	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
13.25	TOP OF STONE
12.75	TOP OF SC-160LP CHAMBER
11.83	8" ISOLATOR ROW PLUS CONNECTION INVERT
11.83	8" X 8" MANIFOLD INVERT
11.75	BOTTOM OF SC-160LP CHAMBER
11.25	BOTTOM OF STONE

NOTES

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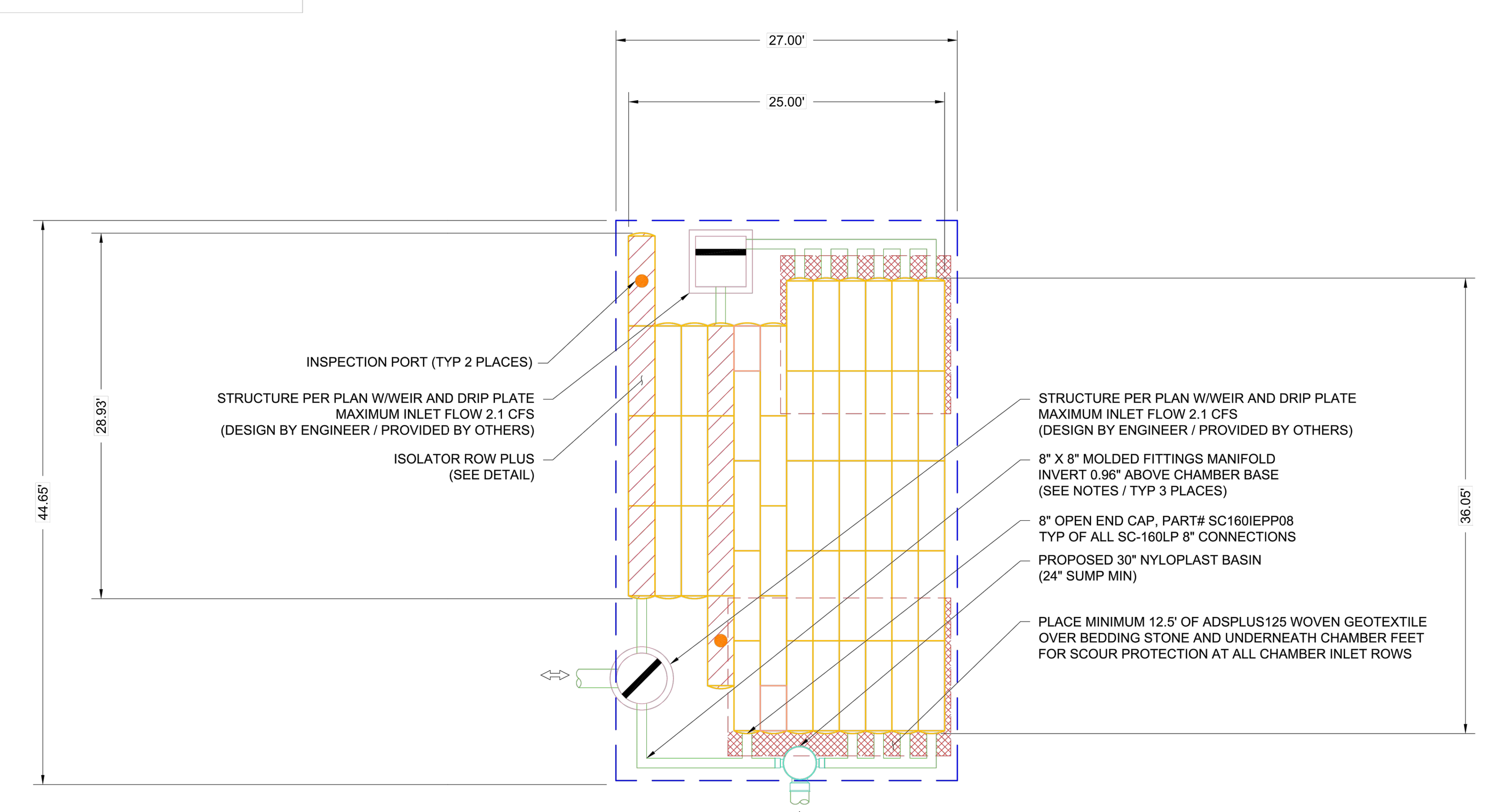

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HILLIARD, OH 43026

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Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG
FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
www.mitchellgulledge.com

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SUBMITTAL:	ISSUE DATE:
100% CONSTRUCTION DOCUMENTS	4/11/2024

REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:

UNDERGROUND STORMWATER MANAGEMENT FACILITY DETAILS

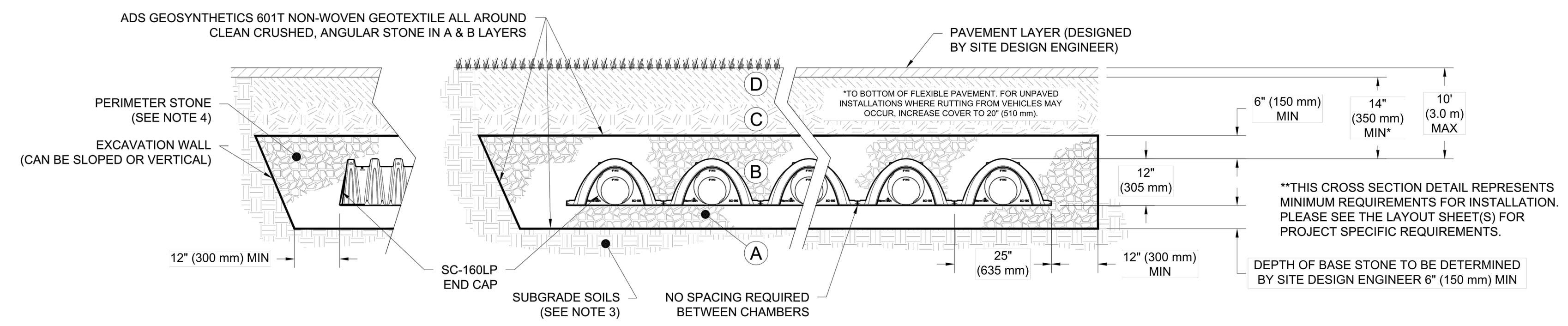
PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

C2.21

ACCEPTABLE FILL MATERIALS: STORMTECH SC-160LP CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 14" (355 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.5"
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

CLAY COUNTY ECONOMIC DEVELOPMENT BUILDING GREEN COVE SPRINGS, FL
DATE: 08-20-23 DRAWN: AVM
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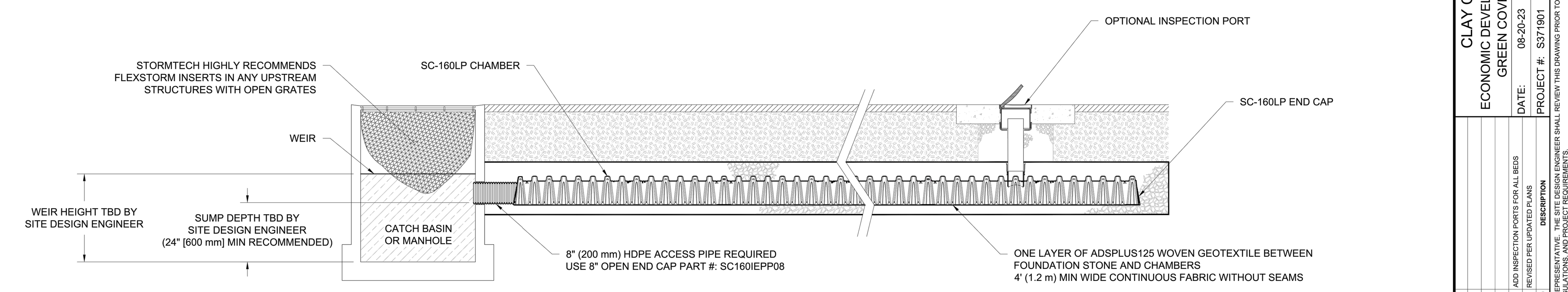


SC-160LP ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

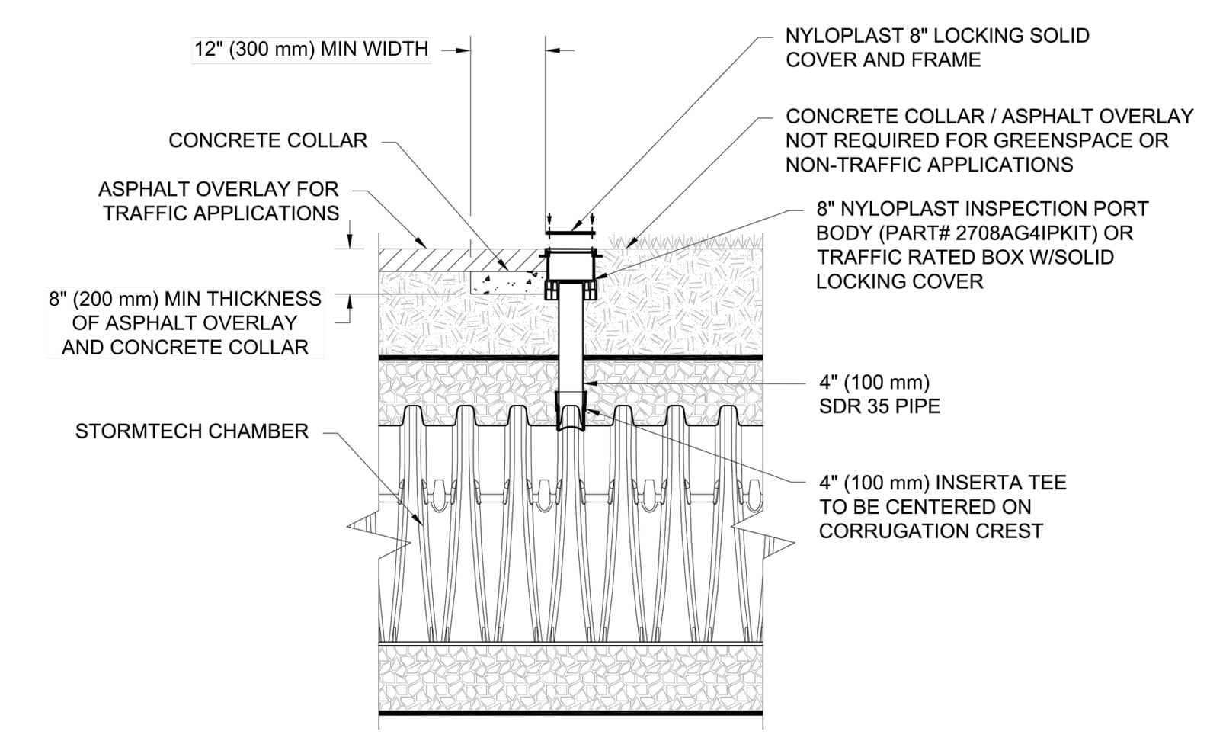
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

CLAY COUNTY ECONOMIC DEVELOPMENT BUILDING GREEN COVE SPRINGS, FL
DATE: 08-20-23 DRAWN: AVM
PROJECT #: S371901 CHECKED: JEK

DATE	DRWN	CHKD	DESCRIPTION
06/18/24	EEH	RWD	ADD INSPECTION PORTS FOR ALL BEDS
09/25/23	TSG	CJD	REVISED PER UPDATED PLANS

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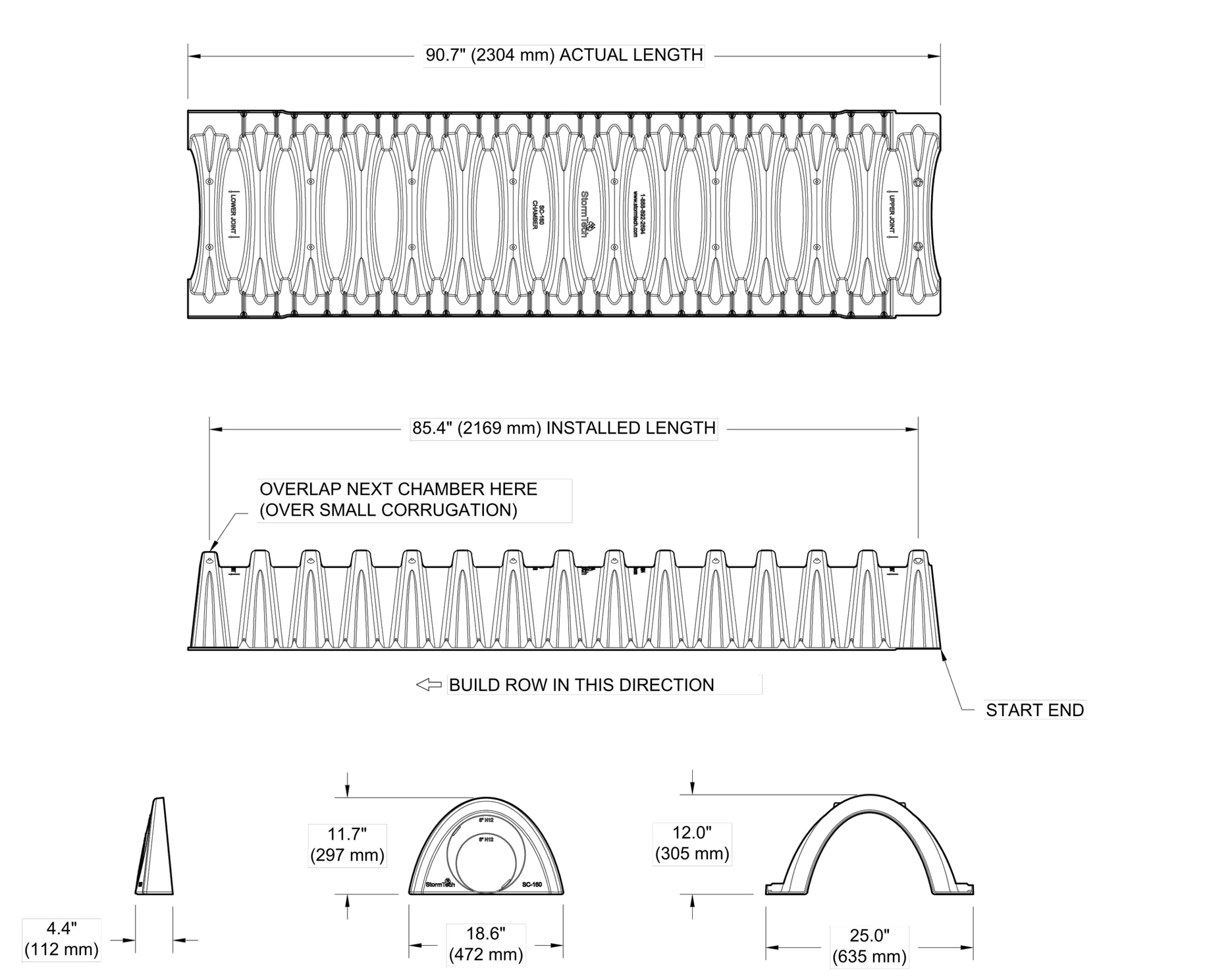
SHEET 10 OF 11

SC-160LP TECHNICAL SPECIFICATION
NTS

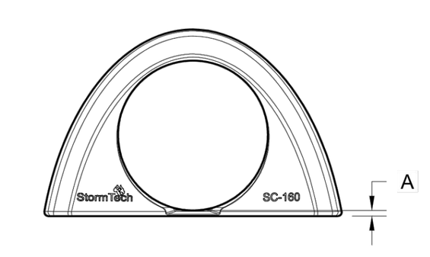


NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	25.0" X 12.0" X 85.4"	(635 mm X 305 mm X 2169 mm)
CHAMBER STORAGE	6.85 CUBIC FEET	(0.19 m³)
MINIMUM INSTALLED STORAGE*	16.0 CUBIC FEET	(0.45 m³)
WEIGHT	24.0 lbs.	(10.9 kg)

*ASSUMES 6" (152 mm) ABOVE, 6" (152 mm) BELOW, AND STONE BETWEEN CHAMBERS WITH 40% STONE POROSITY.

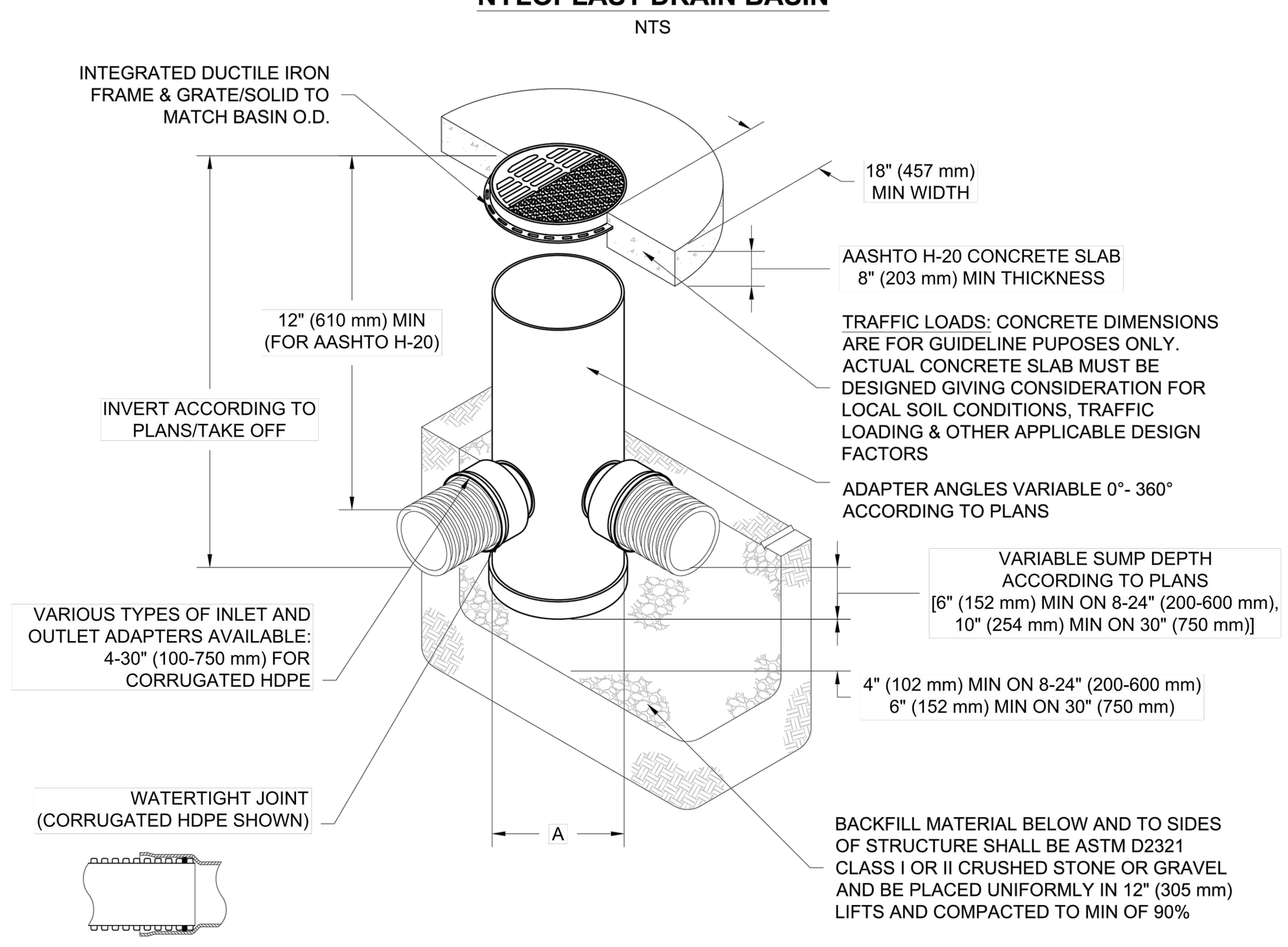
PART #	STUB	A
SC160EPP	6" (150 mm)	0.66" (16 mm)
	8" (200 mm)	0.80" (20 mm)
SC160EPP08	8" (200 mm)	0.96" (24 mm)



ALL STUBS ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

NOTE: ALL DIMENSIONS ARE NOMINAL

NYLOPLAST DRAIN BASIN
NTS



NOTES

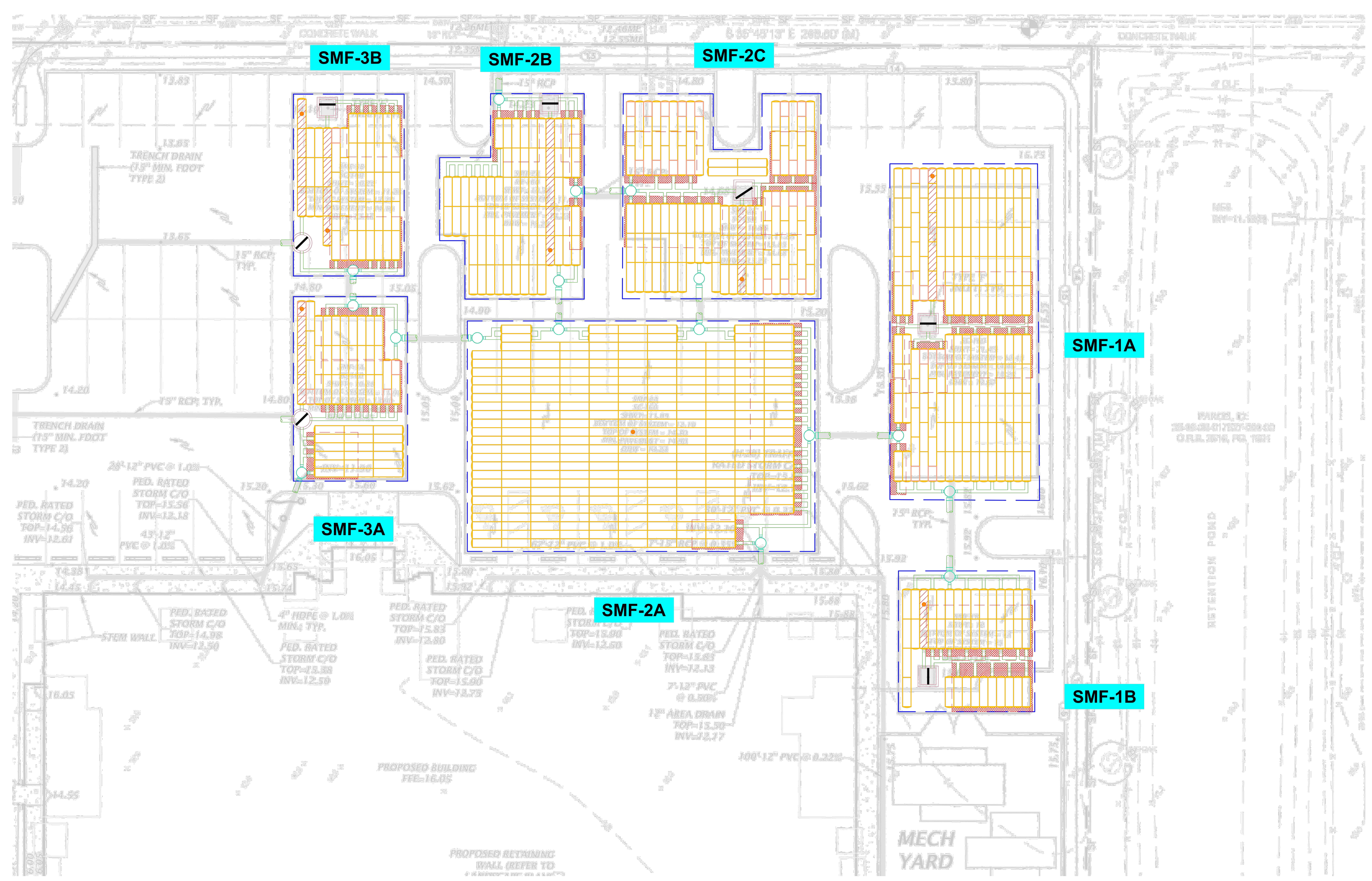
1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

CLAY COUNTY ECONOMIC DEVELOPMENT BUILDING GREEN COVE SPRINGS, FL
DATE: 08-20-23 DRAWN: AVM
PROJECT #: S371901 CHECKED: JEK

Nyloplast®
770-932-2443 | WWW.NYLOPLAST-US.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

SHEET 11 OF 11



Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young, State of Florida, Professional Engineer, License No. 70780

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FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG mitchell + gulledge engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
GAINESVILLE, FL 32601
FL LICENSE EB-31501
T: 352.745.3991
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JACKSONVILLE, FL

SUBMITTAL:	ISSUE DATE:
100% CONSTRUCTION DOCUMENTS	4/11/2024

REVISION DESCRIPTION DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

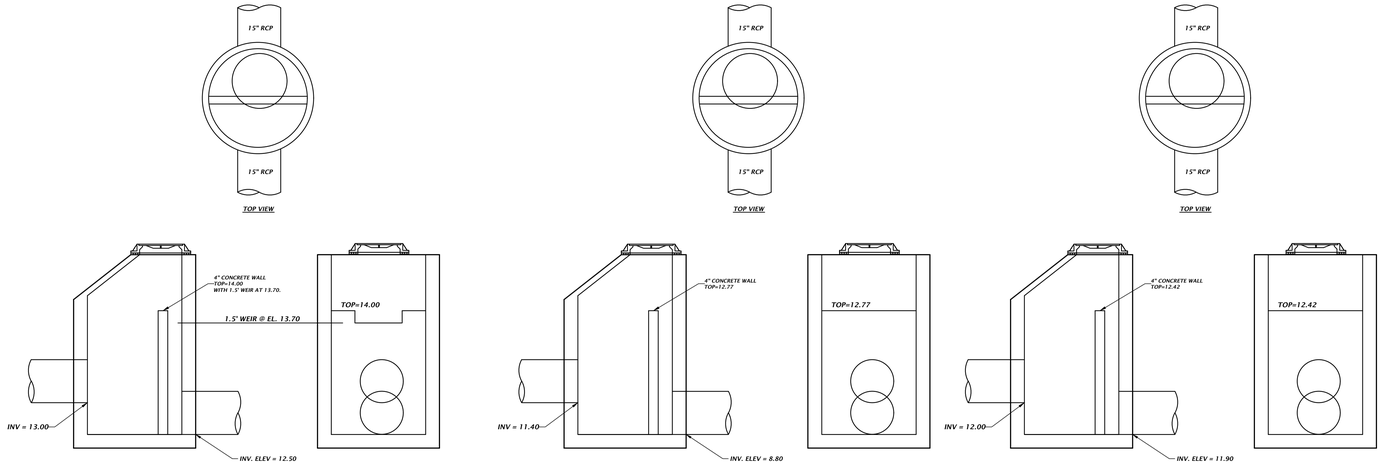
KEY PLAN

DRAWING TITLE:

UNDERGROUND STORMWATER MANAGEMENT FACILITY DETAILS

PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

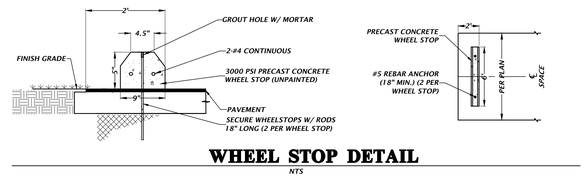
C2.22



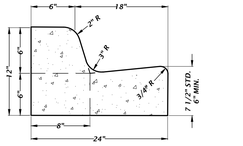
OUTFALL STRUCTURE DS-1
NTS

OUTFALL STRUCTURE DS-2
NTS

OUTFALL STRUCTURE DS-3
NTS



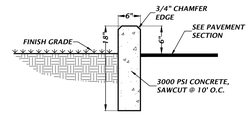
WHEEL STOP DETAIL
NTS



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



6" BOX CURB DETAIL
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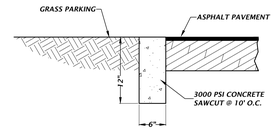

FLUSH CURB DETAIL
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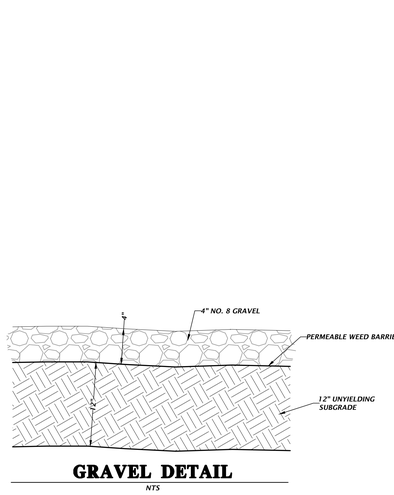
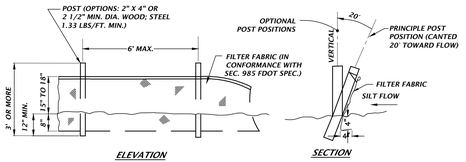


GRAVEL DETAIL
NTS



TYPE III SILT FENCE DETAIL
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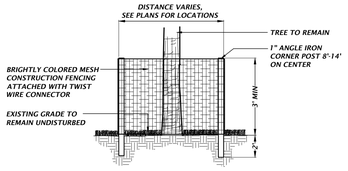

TREE PROTECTION DETAIL
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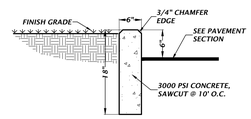

TYPICAL 6" CURB DETAIL
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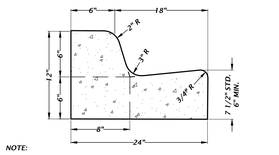

NOTE:

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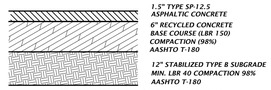
TYPE F CONCRETE CURB AND GUTTER DETAIL
NTS

NOTE: CONCRETE PAVEMENT & JOINTS SHALL BE CONSTRUCTED TO FC & FA STANDARDS.

HEAVY DUTY CONCRETE DETAIL
NTS



STANDARD DUTY ASPHALT DETAIL
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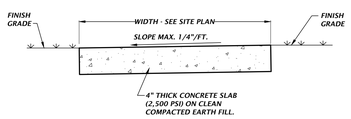
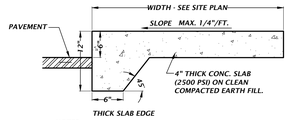


NOTES:

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.*

NOT ADJACENT TO PAVEMENT
NTS

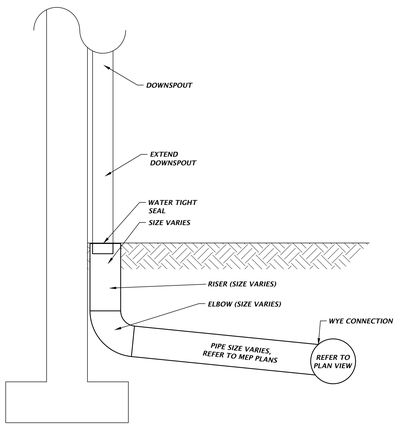


NOTES:

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

CONCRETE SIDEWALK DETAILS
NTS



DOWNSPOUT CONNECTION DETAIL
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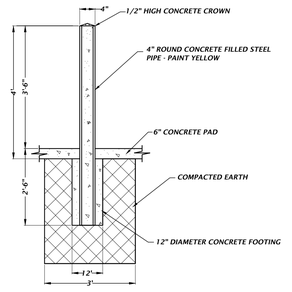

PIPE BOLLARD DETAIL
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Walker Architects
2035 NW 13TH STREET GAINESVILLE, FL 32609
T: 352.672.6448 www.walker-arch.com AA26002009

DANIEL H. YOUNG

Daniel H. Young, State of Florida, Professional Engineer, License No. 70780

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FL PE No. 70780

CHW Professional Consultants
11801 RESEARCH DRIVE
ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
CA Lic. No: 5075

MG engineering
MITCHELL GULLEDGE ENGINEERING, INC.
204 SW 4TH AVENUE
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JACKSONVILLE, FL

SUBMITTAL:	ISSUE DATE:
100% CONSTRUCTION DOCUMENTS	4/11/2024

REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

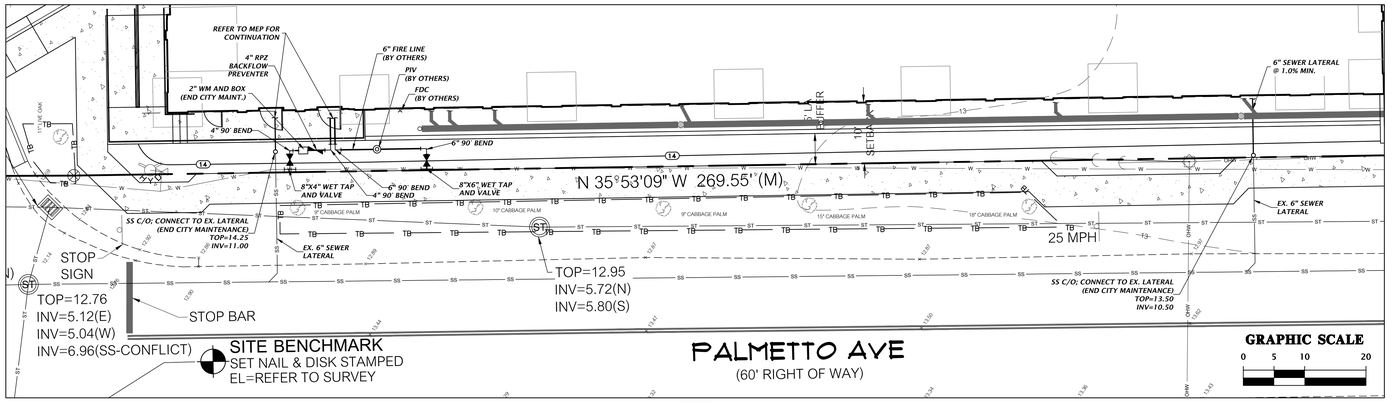
633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:
CONSTRUCTION DETAILS

PROJECT NO.: 23-204	DRAWN BY: TFC
	CHECKED BY: TJH

C2.30



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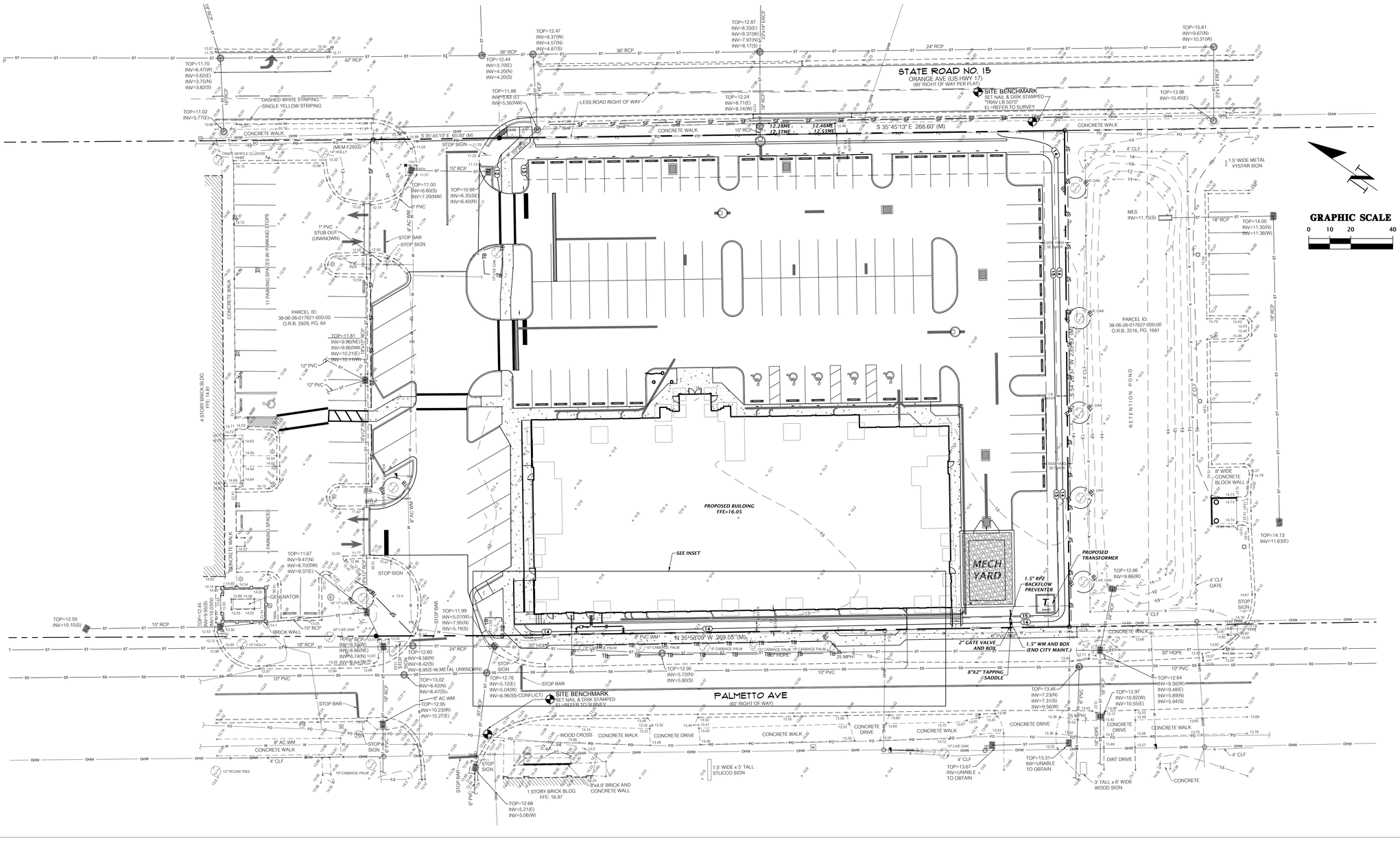

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T: 352.672.6448 www.walker-arch.com AA26002009

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CHW Professional Consultants
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ALACHUA, FL 32615
T: 352.331.1976 F: 352.331.2476
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MITCHELL GULLEDGE ENGINEERING, INC.
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REVISION	DESCRIPTION	DATE

CLAY COUNTY ECONOMIC DEVELOPMENT SERVICES FACILITY

633 N. ORANGE AVE.
GREEN COVE SPRINGS, FL 32043

KEY PLAN

DRAWING TITLE:
DETAILED UTILITY SITE PLAN

PROJECT NO.: 23-204 DRAWN BY: TFC
CHECKED BY: TJH

C3.10