

### GENERAL NOTES:

1. CONTRACTOR IS REQUIRED TO VISIT SITE AND FAMILIARIZE HIM/HERSELF WITH THE PROJECT PRIOR TO BIDDING.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REGULATIONS CONCERNING NOTIFICATION TO THE REGULATORY AUTHORITIES OF ANY AND ALL BUILDING RENOVATIONS AND/OR DEMOLITION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MONITORING AND NOTIFYING THE ENGINEER OF RECORD AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND CONCLUSION OF CONSTRUCTION, AS WELL AS SUPPLYING CLEAR AND LEGIBLE REVISIONS TO THE CONSTRUCTION PLANS FOR USE DURING AS-BUILT CERTIFICATION.
4. ALL DISTURBED AREAS WHICH ARE NOT PAVED ARE TO BE STABILIZED WITH SEEDING, FERTILIZER & MULCH, HYDROSEED AND/OR SOD (RECOMMEND CENTIPEDE, PENSACOLA BAHIA OR BERNUHA SOD). POND AND SWALE TOPS AND SIDES SHALL BE SODDED AND PINNED. ALL SOD PLACED ON SIDE SLOPES 4 TO 1 OR GREATER SHALL BE PINNED.
5. WHERE SOD IS BEING INSTALLED, TOPSOIL SHALL BE USED AS A BASE AT LEAST 3" DEEP.
6. AFTER THE SITE HAS BEEN BROUGHT TO PROPER GRADE FOR PLACEMENT OF TOPSOIL AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENEED BY DISKING OR SCARIFYING TO A DEPTH OF 2" TO INSURE BONDING OF THE TOPSOIL AND SODDING.
7. TOPSOIL SHALL NOT BE PLACED IN A MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND PROPOSED SODDING.
8. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 3".
9. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
10. COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A LEVEL SEED BED FOR THE ESTABLISHMENT OF HIGH MAINTENANCE TURF. AVOID UNDUKE COMPACTION.
11. CONTRACTOR IS TO MAINTAIN SODDING AND GRASSING BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, RE-GRAIDING AND REPLANTING AS REQUIRED TO ESTABLISH GRASS/SODDED AREAS FREE OF ERODED OR BARE AREAS AND REPLACE ANY REJECTED MATERIALS PROMPTLY FROM THE SITE. CONTRACTOR IS TO INCLUDE COST OF MAINTAINING SODDING AND GRASSING IN THE BID.
12. CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN A CODE ENFORCEMENT VIOLATION.
13. DEVELOPER/CONTRACTOR SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE ANY DISTURBED AREAS FOUND IN RETENTION POND AT END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND PRIOR TO REQUEST FOR INSPECTION.
14. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION AND PROVIDE A TOPOGRAPHICAL SURVEY (CERTIFIED BY A STATE OF FLORIDA LICENSED SURVEYOR) OF THE PROJECT AREA WHICH ILLUSTRATES AS-BUILT CONDITIONS OF ALL WORK AND SITE IMPROVEMENTS INCLUDING OF PAVING, DRAINAGE STRUCTURES, STORMWATER POND TOPOGRAPHY, SITE ELEVATIONS AND EXISTING BUILDING STRUCTURES, ETC. THESE RECORD DRAWINGS ARE TO BE PROVIDED TO THE PROJECT ENGINEER PRIOR TO REQUESTING FINAL INSPECTION.
15. THE OWNER OR HIS AGENT SHALL ARRANGE/SCHEDULE WITH THE COUNTY INSPECTIONS OFFICE (850-595-3569) AN INSPECTION OF THE EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO CONSTRUCTION, UNDERGROUND DRAINAGE STRUCTURES PRIOR TO BURIAL, ALL INTERMEDIATE INSPECTIONS AND THE FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION. AS-BUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/ APPROVAL.
16. EROSION SHALL BE CONTROLLED BY THE USE OF A HAY BALE BARRIER/SILT FENCE AS SHOWN ON PLANS AND SHALL BE SETUP PRIOR TO COMMENCING CONSTRUCTION. THE EROSION CONTROL BARRIER SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF THE PROJECT, THE DETENTION AREA SHALL BE CLEARED OF SILT & STABILIZATION OF ALL DISTURBED AREAS SHALL BE ACCOMPLISHED.
17. CONTRACTOR SHALL NOTIFY SUNSHINE ONE UTILITIES (1-800-432-4770) TWO FULL BUSINESS DAYS IN ADVANCE PRIOR TO DIGGING WITHIN R/W.
18. ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO REQUESTING A FINAL INSPECTION AND ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.
19. NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BDD. THE DESIGN ENGINEER AND THE ESCAMBIA COUNTY. ANY DEVIATIONS MAY RESULT IN DELAYS IN OBTAINING A CERTIFICATE OF OCCUPANCY.
20. RIGHT-OF-WAY SHOULDER STABILIZATION SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
21. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER BY THE CONTRACTOR. IF THERE WILL BE TEMPORARY STOCKPILING OF MATERIALS ON THE SITE, THESE AREAS SHOULD CONTAIN EROSION CONTROL BMP'S (e.g. SILT FENCE, HAY BALES, ETC) AS NECESSARY.
22. ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE DEVELOPER PRIOR TO FINAL "AS-BUILT" SIGN OFF FROM THE COUNTY.
23. ALL BUILDING ROOF DRAINS, DOWN SPOUTS OR GUTTERS SHALL BE ROUTED TO CARRY ALL STORMWATER RUNOFF TO ON-SITE RETENTION BASIN.
24. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANIES FOR REMOVAL AND RELOCATION OF EXISTING UTILITY POLES, AERIAL LINES, WATER LINES, GAS LINES AND OTHER UTILITIES AS NECESSARY.
25. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.
26. UTILITY LOCATIONS ARE APPROXIMATE BASED ON LOCATION OF ABOVE GROUND APPURTENANCES, AND AS TAKEN FROM THE SURVEY. UNDERGROUND UTILITIES NOT SHOWN HEREIN MAY EXIST.
27. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
28. CONTRACTOR SHALL COMPLY WITH ANY TESTING REQUIRED BY STATE AND LOCAL GOVERNING AGENCIES SUCH AS ASPHALT CORES AND SUB-BASE/BASE COMPACTION TESTING.
29. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS BETWEEN VENDOR DRAWINGS, EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS.
30. CONTRACTOR TO PROVIDE PROTECTION TO TREES THAT ARE TO REMAIN VIA TREE PROTECTION BARRIERS. REFER TO EROSION CONTROL PLAN FOR MORE INFORMATION.
31. TRENCHING OR GRADING AROUND TREES TO REMAIN SHALL BE AWAY FROM THE TREE IN A MANNER TO CAUSE NO DAMAGE TO THE TREE'S CRITICAL ROOT ZONE. THE CRITICAL ROOT ZONE IS REPRESENTED BY A CIRCLE, CENTERED ON THE TREE TRUNK AND HAVING A RADIUS OF ONE FOOT FOR EACH ONE INCH OF TRUNK DIAMETER (DBH). REFER TO LANDSCAPING PLAN FOR ADDITIONAL INFORMATION.

### FLORIDA DEPARTMENT OF HEALTH:

NPROJECT WILL NEED TO SUBMIT AN APPLICATION, FLOOR PLAN, AND SITE PLAN (TO SCALE) TO THE FL. DEPT. OF HEALTH IN ESCAMBIA COUNTY FOR THE PROPOSED GYM CONCESSION STAND. HEALTH DEPT. REVIEW SHOULD TAKE PLACE OF BUILDING PERMIT REVIEW. AN OPERATING PERMIT WILL BE REQUIRED FOR THE FOOD SERVICE OPERATION. CONTACT CHRISTIE GILLENWATER @ 595-6700 x2006 OR LEEANN LUTZ @ x2051 FOR MORE INFORMATION.

### SIGNAGE:

NO NEW PROPOSED SIGNAGE WILL BE PART OF THIS DEVELOPMENT

### JURISDICTIONAL CONTACTS:

**ESCAMBIA COUNTY DEVELOPMENT SERVICES**  
3363 WEST PARK PLACE  
PENSACOLA, FL 32505  
PHONE NO.: (850)-595-3475  
FAX NO.: (850)-595-3481

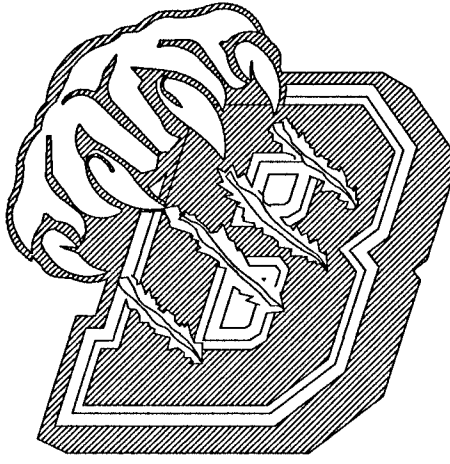
**EMERALD COAST UTILITIES AUTHORITY**  
9255 STURDEVANT STREET  
PENSACOLA, FL 32514  
PHONE NO.: (850)-476-5110  
FAX NO.: 850-494-7346

**NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT**  
700 US HIGHWAY 931 SOUTH  
DELFUNIAK SPRINGS, FL 32435  
PHONE NO.: (850)-951-4660  
FAX NO.: (850)-892-8007

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
2800 BLAIR STONE ROAD  
TALLAHASSEE, FL 32399  
PHONE NO.: (866)-336-6312  
FAX NO.: (850)-297-1211

**FLORIDA DEPARTMENT OF TRANSPORTATION**  
8025 OLD BAGDAD HIGHWAY  
PENSACOLA, FL 32503  
PHONE NO.: (850)-981-3000  
FAX NO.: (850)-981-2719

# SITE DEVELOPMENT PLANS FOR BEULAH ACADEMY OF SCIENCE GYMNASIUM



SECTION 07, TOWNSHIP 1 SOUTH, RANGE 31 WEST  
ESCAMBIA COUNTY, FLORIDA  
8633 BEULAH ROAD  
PENSACOLA, FL 32526

OWNER/DEVELOPER:  
BEULAH ACADEMY OF SCIENCE, INC.  
8633 BEULAH ROAD  
PENSACOLA, FL 32526  
(850)-944-2848

PROPERTY ID NO.:  
07-1S-31-1401-000-000  
ZONING DESIGNATION: LDR  
ADJACENT ZONING: LDR, COM  
FLU DESIGNATION: MU-S  
ADJACENT FLU: COM, MU-S

SAVINGS CLAUSE EXECUTED TO ALLOW FOR  
EDUCATIONAL FACILITY IN THE PREVIOUS  
ZONING OF RR. OR BK-7763 PG-1802

#### ECUA Engineering Manual Reference Note\*

\*Note shall be inserted in the upper right corner of title sheet  
\*applicable only to ECUA infrastructure to be constructed in public ROW or as utility easement; not to be applied to private water/sewer facilities on private property (see Building Code)

#### A. ECUA Engineering Manual Incorporated by Reference

The ECUA Engineering Manual, dated December 18, 2014, along with Update # 1 dated September 1, 2016 (hereinafter "Manual"), located at [www.ecua.fl.gov](http://www.ecua.fl.gov), is hereby incorporated by reference into this Project's official contract documents as if fully set forth therein. It is the Contractor's responsibility to be knowledgeable of the Manual's contents and to construct the Project in accordance with the Manual. The Contractor shall provide its employees access to the Manual at all times, via Project site or office, via digital or paper format. In the event of a conflict between the Manual and Plans, Contractor shall consult Engineer of Record for proper resolution.

#### B. Additional Documents to be completed by the Engineer of Record

Does this Project have additional technical specifications or construction details that supplement and/or supersede the Manual listed above? (YES / NO) If YES, Contractor shall construct Project in accordance with said documents as listed and located below:

Document Name	Document Type		Location
	Specifi- cation	Detail	Plans
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*Project Manuals used only with ECUA QP Projects

#### C. Engineer of Record Responsibilities

The Engineers of Record (EORs) that have affixed their seals and signatures on these plans warrant their portions of the plans have been designed in accordance with the Manual (unless otherwise directed by the ECUA Project Engineer). The EORs shall be knowledgeable of the Manual's contents and shall assume responsibility for its use on this Project.

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA'S ENGINEERING MANUAL

### PROJECT DIRECTORY:

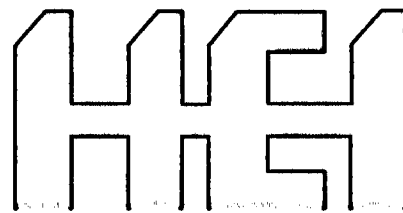
**CIVIL ENGINEER**  
KIM LAND PLANNING, INC.  
3802 NORTH "S" ST.  
PENSACOLA, FL 32505  
PHONE NO.: (850)-434-2603  
FAX NO.: (850)-434-2650

**SURVEYOR**  
KIM LAND PLANNING, LLC.  
1616 W. AVERY STREET  
PENSACOLA, FL 32501  
PHONE NO.: (850)-438-0202  
FAX NO.: (850)-438-1307

**GEOTECHNICAL ENGINEER**  
NOVA ENGINEERING & ENVIRONMENTAL, LLC.  
140-A LUTON STREET  
PENSACOLA, FL 32505  
PHONE NO.: (850)-607-7782  
FAX NO.: (850)-249-6683

### INDEX OF DRAWINGS:

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- C11 ~ CONSTRUCTION DETAILS
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- C13 ~ LIFT STATION DETAILS



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH "S" STREET  
PENSACOLA, FLORIDA 32505  
850-434-2603  
FAX 850-434-2650  
TOM@SELANDDESIGN.COM

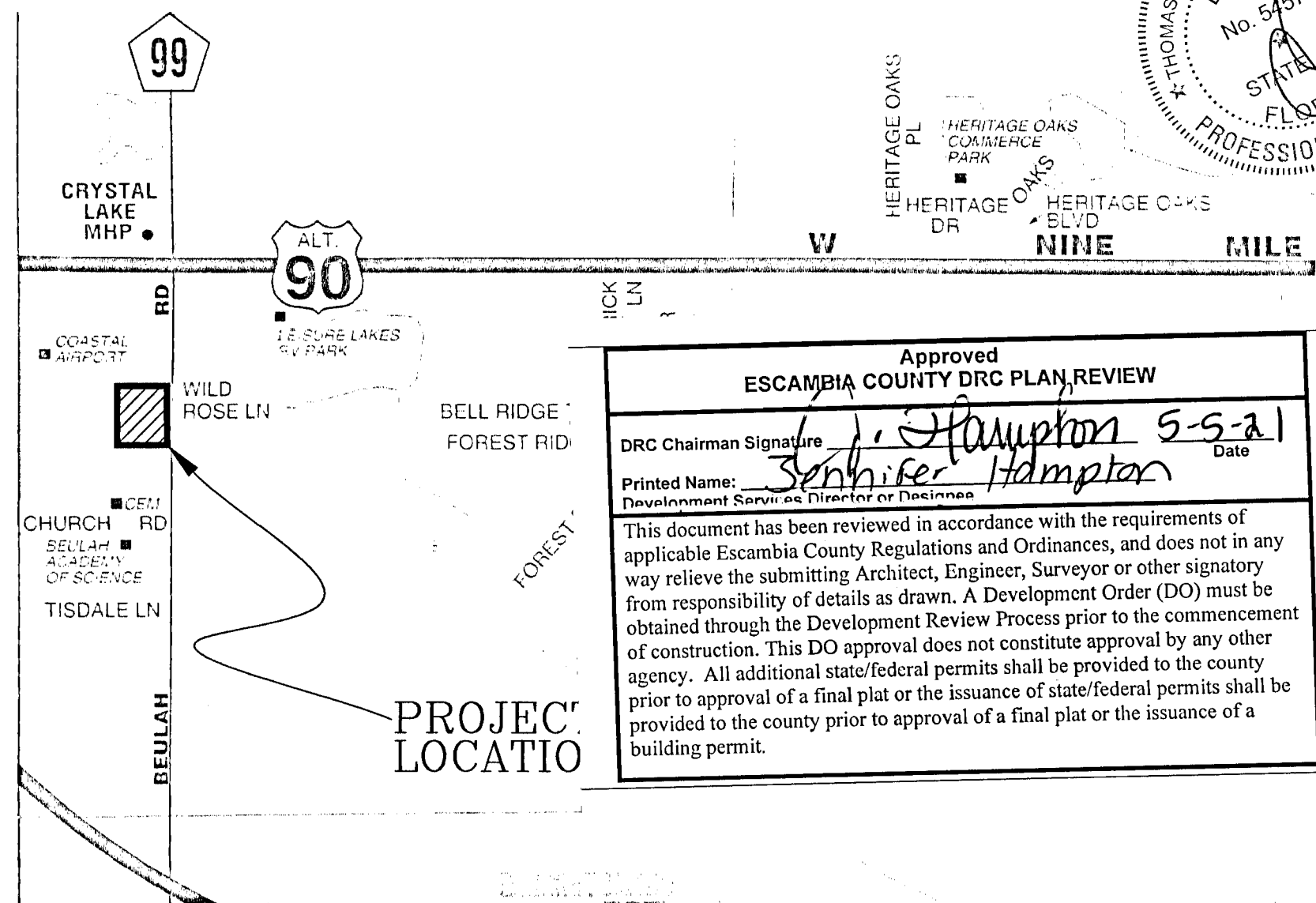
REVISED APRIL 21, 2021  
HEI PROJECT #: 20-085

### GENERAL NOTES:

32. CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES AND SUPPORT TO ACCESS THE SITE AND SHALL INCLUDE THE COST FOR SAME IN THE BID. CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE SATISFACTION OF THE OWNER AND/OR GOVERNING AGENCY.
33. CONTRACTOR SHALL COORDINATE HIS WORK AND COOPERATE WITH OTHER CONTRACTORS WORKING AROUND THE PROJECT AREA.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING SPILLS OF POTENTIALLY HAZARDOUS SUBSTANCES (i.e. GASOLINE, DIESEL FUEL, HYDRAULIC FLUID, ETC.) TO THE APPROPRIATE STATE (FDEP STATE WARNING POINT 1-800-320-0519) AND LOCAL (ESCAMBIA COUNTY HEALTH DEPT. 850-595-6700) AGENCIES.
35. SOLID WASTE SHALL BE KEPT IN AN APPROVED DUMPSTER THROUGHOUT CONSTRUCTION ACTIVITIES.
36. ALL VALVE BOXES SHALL BE SET FLUSH WITH GRADE(IF APPLICABLE).
37. ADEQUATE PROVISIONS SHALL BE MADE FOR FLOW OF SEWERS, DRAINS, AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION.
38. THE CONTRACTOR SHALL FLUSH AND CLEAN ALL STORMWATER PIPES AND STRUCTURES AT END OF CONSTRUCTION AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.
39. PLACEMENT OF UNDERGROUND SYSTEMS, IRRIGATION, SEWER, WATER, DRAINAGE, ELECTRICAL, GAS, ETC. SHALL BE COMPLETED PRIOR TO LANDSCAPE INSTALLATION.
40. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE SUCH AS BUILDINGS, SEWERS, DRAINS, WATER OR GAS PIPES, ELECTRICAL, CONDUITS, POLES, WALLS, POSTS, ETC. ARE TO BE CAREFULLY PROTECTED AND ARE NOT TO BE DISPOSED UNLESS NOTED.
41. THE CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE AND FEDERAL AGENCIES RULES CONCERNING SAFETY.
42. CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS, AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.
43. CONTRACTOR SHALL INCLUDE IN HIS BID ANY COST ASSOCIATED WITH DE-WATERING AND DE-MUCKING FOR INSTALLATION OF REQUIRED INFRASTRUCTURE (IF APPLICABLE).
44. THE CONTRACTORS MEANS AND METHODS OF GROUNDWATER DE-WATERING SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS FOR THE TEMPORARY DIVERSION OF GROUNDWATER AND ITS DISCHARGE, INCLUDING FAC CHAPTER 62-621.300(2) "GENERIC PERMIT FOR THE DISCHARGE OF PRODUCE GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY" (IF APPLICABLE)
45. CONTRACTOR SHALL INCLUDE IN HIS BID ANY COST ASSOCIATED WITH SELECT BACKFILL FOR INSTALLATION OF ANY INFRASTRUCTURE.
46. CONTRACTOR SHALL CLEAN UP ENTIRE SITE INCLUDING STAGING AREAS AT LEAST TWO TIMES PER WEEK. THIS SHALL INCLUDE LOCATING TRASH/SCRAP RECEPTACLES AT APPROPRIATE LOCATIONS AROUND THE SITE. CONTRACTOR SHALL PICK UP ALL ROCKS, METAL, PIPE, NAILS, BOLTS, BOARDS, PAPER, TRASH, ETC. AT LEAST TWICE A WEEK. CONTRACTOR SHALL INCLUDE COST OF SAME IN BID.
47. CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO AS GOOD AS OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION. THIS INCLUDES IRRIGATION AND SOD REPLACEMENT IF NECESSARY. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 20 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE.
48. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (i.e. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL.
49. ANY SLOPES RECEIVING INFRASTRUCTURE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (i.e. SLOPES GREATER THAN 3:1)
50. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STANDARDS FOR EROSION CONTROL.
51. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMITS OF DISTURBANCE OR ONTO PUBLIC RIGHT OF WAY WILL BE REMOVED IMMEDIATELY.
52. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
53. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #48 ABOVE.
54. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
55. ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.
56. ANY DIRT THAT RUNS OFF OF THE PROJECT SITE ONTO PUBLIC STREETS SHALL BE REMOVED AND CLEANED IMMEDIATELY. FAILURE TO COMPLY CAN RESULT IN CODE ENFORCEMENT ACTION.
57. ANY AREAS USED FOR THE CONTRACTORS STAGING, INCLUDED BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (i.e. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC) SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
58. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT ESCAMBIA COUNTY, FDEP, AND ECUA STANDARDS AND REQUIREMENTS.
59. FOR SITES WITH DISTURBANCE EXCEEDING 1 ACRE...TO COMPLY WITH NPDES REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT AN NPDES NOTICE OF INTENT TO FDEP A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ADDITIONALLY, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH 1/2" RAINFALL EVENT OR AT LEAST WEEKLY. A CERTIFIED STORMWATER MANAGEMENT INSPECTOR SHALL DOCUMENT SUCH INSPECTIONS AND EROSION CONTROL EFFORTS. INSPECTION RECORDS SHOULD BE ON HAND AT ALL TIMES AND PROVIDED TO ANY FDEP REPRESENTATIVE THAT MAY VISIT THE SITE DURING CONSTRUCTION.
60. THE PROJECT ENGINEER (ENGINEER OF RECORD) SHALL PROVIDE TO ESCAMBIA COUNTY "AS-BUILT" RECORD DRAWINGS FOR VERIFICATION AND APPROVAL ONE WEEK PRIOR TO REQUESTING A FINAL INSPECTION AND CERTIFICATE OF OCCUPANCY, OR PROVIDE "AS-BUILT" CERTIFICATION THAT THE PROJECT CONSTRUCTION ADHERES TO THE PERMITTED PLANS AND SPECIFICATIONS. THE "AS-BUILT" CERTIFICATION OR "AS-BUILT" RECORD DRAWINGS MUST BE SIGNED, SEALED AND DATED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER.
61. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
62. REFER TO BUILDING PLANS FOR ADDITIONAL INFORMATION.

### FLOOD ZONE DATA

THE SUBJECT PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE X, (MINIMAL RISK AREAS OUTSIDE THE 1-PERCENT AND 2-PERCENT-ANNUAL-CHANCE FLOODPLAINS. NO BFE'S OR BASE FLOOD DEPTHS ARE SHOWN WITHIN THESE ZONES), AS DETERMINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP OF ESCAMBIA COUNTY, FLORIDA, COMMUNITY 120080, FIRM MAP PANEL NUMBERS 12033C0270G, MAP REVISIONS DATED SEPTEMBER 29, 2006.					
FLOOD ZONE(S)	NEIP COMMUNITY NUMBER	MAP NUMBER	PANEL NUMBER(S)	SUFFIX	MAP REVISION DATE
X	120080	12033C	0270	G	SEPTEMBER 29, 2006



Approved  
**ESCAMBIA COUNTY DRC PLAN REVIEW**

DRC Chairman Signature: *John Hampton* Date: *5-5-21*

Printed Name: *John Hampton*  
Development Services Director or Designee

This document has been reviewed in accordance with the requirements of applicable Escambia County Regulations and Ordinances, and does not in any way relieve the submitting Architect, Engineer, Surveyor or other signatory from responsibility of details as drawn. A Development Order (DO) must be obtained through the Development Review Process prior to the commencement of construction. This DO approval does not constitute approval by any other agency. All additional state/federal permits shall be provided to the county prior to approval of a final plat or the issuance of state/federal permits shall be provided to the county prior to approval of a final plat or the issuance of a building permit.

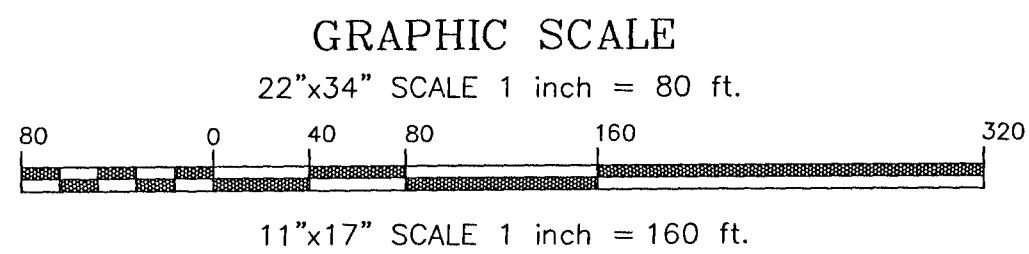
NO.	DATE	REVISIONS
△	04/20/21	REVISED PLANS AS PER ESAMBIA COUNTY DRC REVIEW COMMENTS
△	04/21/21	REVISED PLANS AS PER ECUA PER REVIEW COMMENTS

VICINITY MAP  
GRAPHIC SCALE

( IN FEET )  
22" x 34": 1 inch = 1500 ft.  
11" x 17": 1 inch = 3000 ft.

S  
H  
E  
E  
T  
**C1**





LEGEND:  
- FOUND 4"x4" CONCRETE MONUMENT L.B. #7919  
- SEWER CLEANOUT  
- SEWER MANHOLE  
- ONE WAY SIGN  
- POWER POLE  
- FIRE HYDRANT  
- POWER POLE WITH GUY ANCHOR  
- WATER METER  
- BACKFLOW PREVENTER  
- WATER SPIGOT  
- SET WOODEN HUB & TACK  
- TELEPHONE PEDESTAL  
- ELECTRICAL PEDESTAL  
- CABLE TELEVISION PEDESTAL  
PSM - PROFESSIONAL SURVEYOR AND MAPPER  
L.B. - LICENSED BUSINESS  
A/C - AIR CONDITIONER  
R/W - RIGHT-OF-WAY  
F.F.E. - FINISHED FLOOR ELEVATION

LEGEND:  
- FOUND 4"x4" CONCRETE MONUMENT L.B. #7919  
- FOUND 1/2" CAPPED IRON ROD L.B. #4641  
- FOUND 1/2" CAPPED IRON ROD L.B. #2843  
- FOUND 1/2" CAPPED IRON ROD PSM #475  
- FOUND ILLEGIBLE 1/2" CAPPED IRON ROD  
- FOUND PLAIN 1/2" IRON ROD  
- FOUND PLAIN 2" IRON PIPE  
- FOUND PLAIN 3/4" IRON PIPE  
- FOUND PLAIN NAIL & DISK  
- SET 1/2" CAPPED IRON ROD L.B. #7919  
PSM - PROFESSIONAL SURVEYOR AND MAPPER  
L.B. - LICENSED BUSINESS  
R/W - RIGHT-OF-WAY  
D - DEED  
F - FIELD

DESCRIPTION: (OFFICIAL RECORDS BOOK 4666, PAGE 581)  
THAT PORTION OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, SECTION 7, TOWNSHIP 1 SOUTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:  
COMMENCING AT THE NORTHEAST CORNER OF SAID SOUTHEAST 1/4;  
THENCE S00°00'00"E (ASSUMED) ALONG THE EAST LINE OF SAID SOUTHEAST 1/4, 1,323.92 FEET TO THE SOUTHEAST CORNER OF SAID SOUTHEAST 1/4;  
THENCE NORTH 45°14'12" WEST, 46.48 FEET;  
THENCE NORTH 0°00'00"E EAST, 400.99 FEET FOR THE POINT OF BEGINNING;  
THENCE CONTINUE NORTH 0°00'00"E EAST, 889.93 FEET TO A POINT IN THE NORTH LINE OF SAID SOUTHEAST 1/4;  
THENCE SOUTH 89°31'52" WEST, 1,292.03 FEET ALONG SAID NORTH LINE TO THE NORTHWEST CORNER OF SAID SOUTHEAST 1/4;  
THENCE SOUTH 0°09'25" EAST, 1,290.99 FEET ALONG THE WEST LINE OF SAID SOUTHEAST 1/4;  
THENCE NORTH 89°31'37" EAST, 430.05 FEET;  
THENCE NORTH 0°00'37" EAST, 175.00 FEET;  
THENCE NORTH 89°31'37" EAST, 324.00 FEET;  
THENCE NORTH 0°00'37" EAST, 122.00 FEET;  
THENCE NORTH 89°31'38" EAST, 11.73 FEET;  
THENCE NORTH 2°11'51" WEST, 329.26 FEET;  
THENCE NORTH 88°15'08" EAST, 310.97 FEET;  
THENCE SOUTH 1°35'43" EAST, 232.07 FEET;  
THENCE NORTH 89°31'46" EAST, 218.00 FEET TO THE POINT OF BEGINNING.

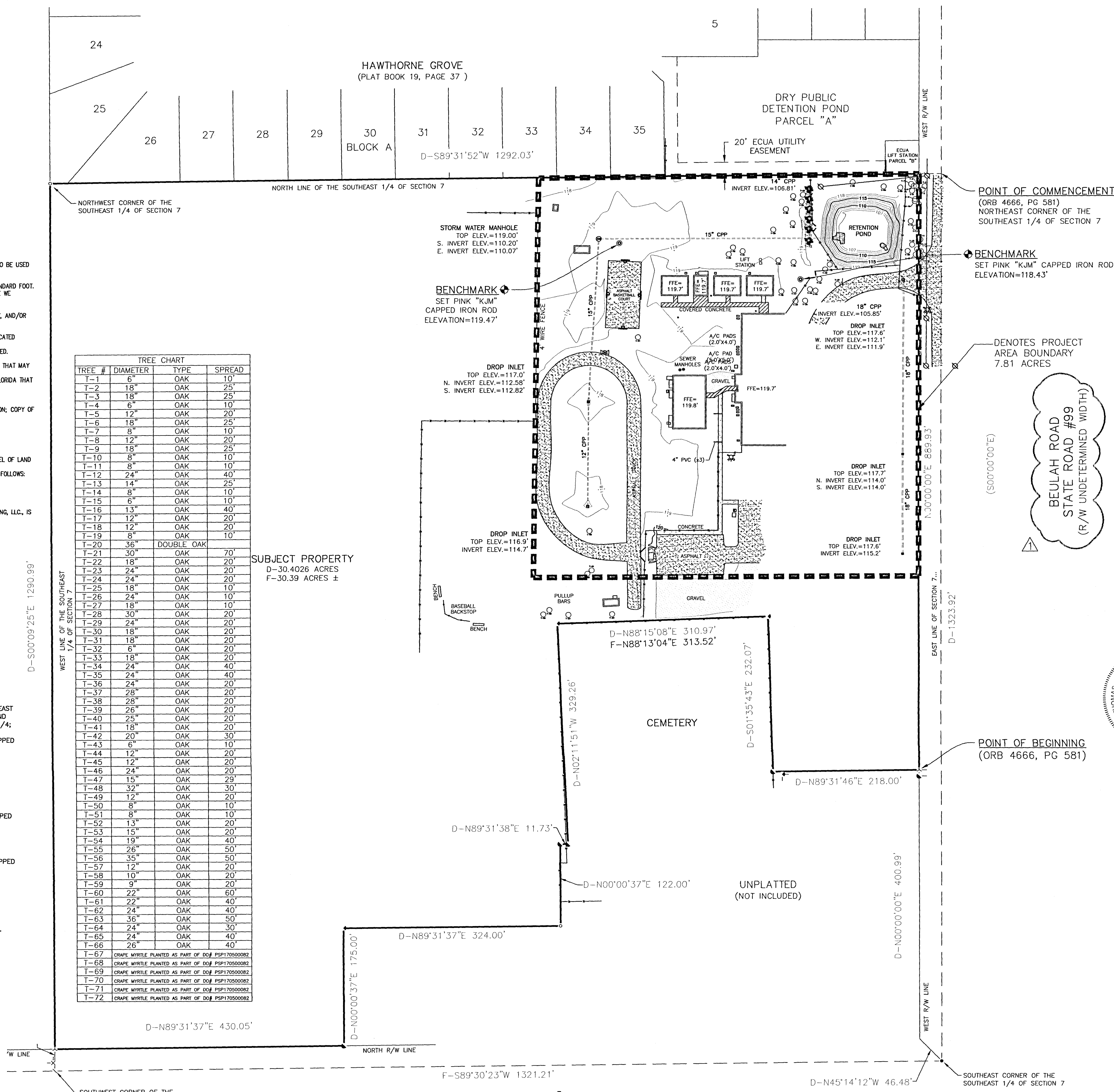
DESCRIPTION: (AS PROVIDED)  
THAT PORTION OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, SECTION 7, TOWNSHIP 1 SOUTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:  
COMMENCE AT THE NORTHEAST CORNER OF SAID SOUTHEAST 1/4;  
THENCE S00°00'00"E ALONG THE EAST LINE OF SAID SOUTHEAST 1/4 A DISTANCE OF 1,322.04 FEET TO A RAILROAD SPIKE AND ALSO BEING THE SOUTHEAST CORNER OF SAID SOUTHEAST 1/4;  
THENCE N45°14'12"W A DISTANCE OF 46.48 FEET;  
THENCE N00°00'00"E A DISTANCE OF 400.80 FEET TO A CAPPED ROD SET AND THE POINT OF BEGINNING;  
THENCE S89°34'53"W A DISTANCE OF 218.00 FEET TO A CAPPED ROD SET;  
THENCE N01°31'40"W A DISTANCE OF 232.07 FEET TO A CAPPED ROD FOUND;  
THENCE S88°13'51"W A DISTANCE OF 313.54 FEET TO A CAPPED ROD FOUND;  
THENCE S02°32'55"W A DISTANCE OF 329.10 FEET TO A CAPPED ROD SET;  
THENCE S89°34'17"W A DISTANCE OF 11.73 FEET TO A CAPPED ROD SET;  
THENCE S00°02'00"E A DISTANCE OF 122.00 FEET TO A 2" STEEL PIPE FOUND;  
THENCE S89°34'17"W A DISTANCE OF 324.14 FEET TO A CAPPED ROD FOUND;  
THENCE S00°02'00"E A DISTANCE OF 175.19 FEET TO A CAPPED ROD SET;  
THENCE S89°32'08"W A DISTANCE OF 430.05 FEET TO A CAPPED ROD SET;  
THENCE N00°08'18"W A DISTANCE OF 1291.19 FEET TO A CAPPED ROD SET;  
THENCE N89°33'26"E A DISTANCE OF 1291.83 FEET TO A CAPPED ROD FOUND;  
THENCE S00°00'00"W A DISTANCE OF 889.93 FEET TO THE POINT OF BEGINNING, SAID TRACT CONTAINS 30.4026 ACRES.

SURVEYOR'S NOTES:  
- THIS SURVEY WAS PREPARED FOR THE CLIENT SHOWN AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT PRIOR CONSENT FROM THIS SURVEYOR.  
- ALL MEASUREMENTS WERE MADE ACCORDING TO UNITED STATES STANDARD FOOT.  
- NO TITLE RESEARCH WAS PERFORMED BY THIS SURVEYOR, NOR WERE WE FURNISHED WITH SUCH.  
- NO INSTRUMENT OF RECORD REFLECTING EASEMENTS, RIGHT-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.  
- NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.  
- ALL BEARINGS AND DISTANCES ARE RECORD UNLESS OTHERWISE NOTED.  
- ERROR OF CLOSURE MEETS STANDARDS OF PRACTICE.  
- THERE MAY BE ADDITIONAL RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY BE FOUND RECORDED IN THE PUBLIC RECORDS OF ESCAMBIA COUNTY, FLORIDA THAT DO NOT APPEAR ON THE FACE OF THIS PLAT.  
- BASIS OF BEARING: EAST LINE OF SECTION 7 AS S00°00'00"W.  
- REFERENCE SOURCE: FIELD WORK AND EXISTING FIELD MONUMENTATION; COPY OF SURVEY BY VOLKERT & ASSOCIATES, INC.  
- ENCROACHMENTS ARE AS SHOWN.  
- THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP NOR AN ENCROACHMENT OF FENCES, WALLS, ETC.  
- IT IS THE OPINION OF THE UNDERSIGNED SURVEYOR THAT THE PARCEL OF LAND SHOWN HEREON AS PER THE FLOOD INSURANCE RATE MAP INFORMATION AS FOLLOWS:  
ZONE: "X"  
ELEVATION: N/A  
PANEL NUMBER: 12033C 0270 G  
AS DATED: 09/29/08  
- THE CERTIFICATE OF AUTHORIZATION NUMBER FOR KJM LAND PLANNING, LLC., IS L.B. 7919.

TREE CHART			
TREE #	DIAMETER	TYPE	SPREAD
T-1	6"	OAK	10'
T-2	18"	OAK	25'
T-3	18"	OAK	25'
T-4	6"	OAK	10'
T-5	12"	OAK	20'
T-6	18"	OAK	25'
T-7	8"	OAK	10'
T-8	12"	OAK	20'
T-9	18"	OAK	25'
T-10	8"	OAK	10'
T-11	8"	OAK	10'
T-12	24"	OAK	40'
T-13	14"	OAK	25'
T-14	8"	OAK	10'
T-15	6"	OAK	10'
T-16	13"	OAK	40'
T-17	12"	OAK	20'
T-18	12"	OAK	20'
T-19	8"	OAK	10'
T-20	36"	DOUBLE OAK	70'
T-21	30"	OAK	70'
T-22	18"	OAK	20'
T-23	24"	OAK	20'
T-24	24"	OAK	20'
T-25	18"	OAK	10'
T-26	24"	OAK	10'
T-27	18"	OAK	10'
T-28	30"	OAK	20'
T-29	24"	OAK	20'
T-30	18"	OAK	20'
T-31	18"	OAK	20'
T-32	6"	OAK	20'
T-33	18"	OAK	20'
T-34	24"	OAK	40'
T-35	24"	OAK	40'
T-36	24"	OAK	20'
T-37	28"	OAK	20'
T-38	28"	OAK	20'
T-39	26"	OAK	20'
T-40	25"	OAK	20'
T-41	18"	OAK	20'
T-42	20"	OAK	30'
T-43	6"	OAK	10'
T-44	12"	OAK	20'
T-45	12"	OAK	20'
T-46	24"	OAK	20'
T-47	15"	OAK	29'
T-48	32"	OAK	30'
T-49	12"	OAK	20'
T-50	8"	OAK	10'
T-51	8"	OAK	10'
T-52	13"	OAK	20'
T-53	15"	OAK	20'
T-54	19"	OAK	40'
T-55	26"	OAK	50'
T-56	35"	OAK	50'
T-57	12"	OAK	20'
T-58	10"	OAK	20'
T-59	9"	OAK	20'
T-60	22"	OAK	60'
T-61	22"	OAK	40'
T-62	24"	OAK	40'
T-63	36"	OAK	50'
T-64	24"	OAK	30'
T-65	24"	OAK	40'
T-66	26"	OAK	40'
T-67	GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082		
T-68	GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082		
T-69	GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082		
T-70	GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082		
T-71	GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082		
T-72	GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082		

SUBJECT PROPERTY  
D-30.4026 ACRES  
F-30.39 ACRES ±

SURVEY COMPLETED BY:  
**KJM**  
Land Planning, LLC.  
Kenneth J. Manie  
Professional Surveyor and Mapper  
1616 W. Avery St.  
Pensacola, FL 32501  
850-438-0202 Fax 850-438-1307



REVISIONS

NO.	DATE	REVISIONS
1	04/20/2021	REVISED PLANS AS PER ESCAMBIA COUNTY DRC REVIEW COMMENTS
2	04/21/2021	REVISED PLANS AS PER ESCAMBIA COUNTY DRC REVIEW COMMENTS

THIS DRAWING IS THE PROPERTY OF HAMMOND ENGINEERING, INC. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR ANY OTHER PROJECT AND IS TO BE RETURNED UPON REQUEST.

**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH "S" STREET  
PENSACOLA, FLORIDA 32505  
850-434-2603  
FAX 850-434-2650  
TOM@SELANDDESIGN.COM

SITE DEVELOPMENT PLANS FOR

BEULAH ACADEMY OF SCIENCE GYMNASIUM

EXISTING CONDITIONS

DRAWN BY: CJB

DESIGNED BY: RLS

CHECKED BY: TGH

DATE: 02/25/21

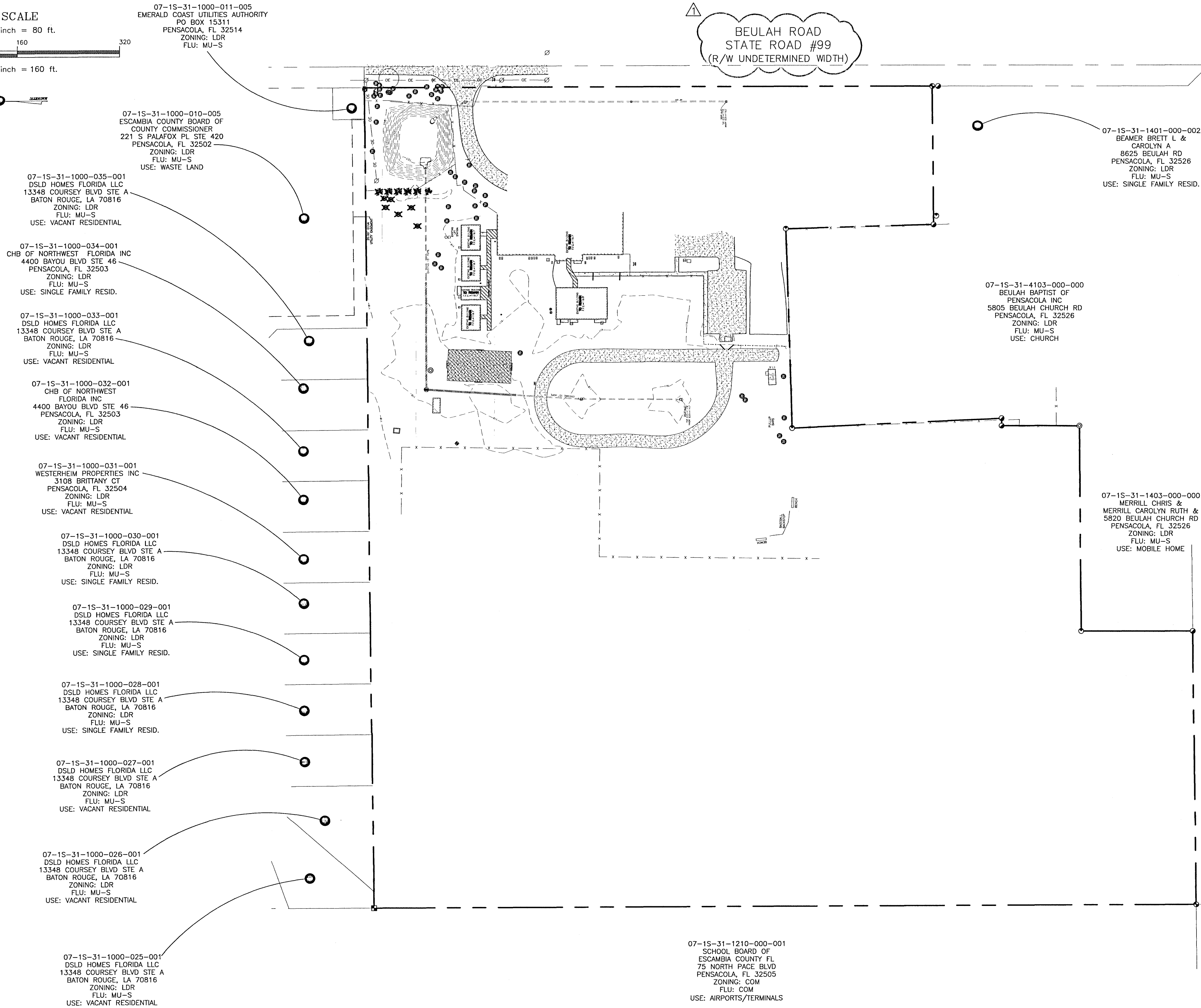
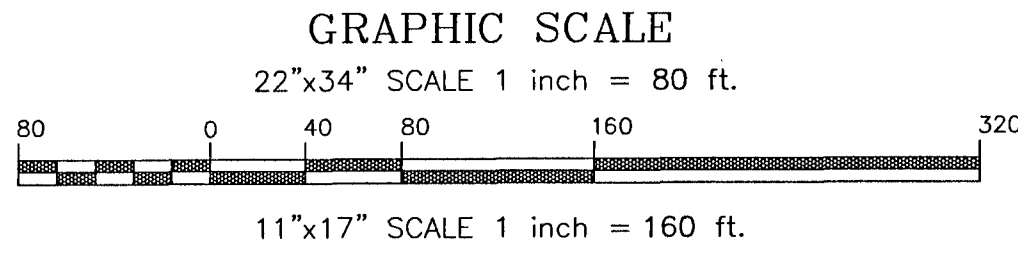
SCALE: AS SHOWN

NOT RELEASED FOR CONSTRUCTION

BY:

DATE:

PROJECT NO: 20-085  
SHEET: **C2**



REVISIONS	
NO.	DATE
1	04/20/2021
2	04/21/2021

SITE DEVELOPMENT PLANS FOR BEULAH ACADEMY OF SCIENCE GYMNASIUM SURROUNDING PROPERTY DATA	
DRAWN BY: CJS	DESIGNED BY: RLS
CHECKED BY: TGH	DATE: 02/25/21
SCALE: AS SHOWN	NOT RELEASED FOR CONSTRUCTION
BY:	DATE:

PROJECT NO: 20-085	
SHEET: C3	

HAMMOND ENGINEERING, INC.  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
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PENSACOLA, FLORIDA 32505  
850 434-2603  
FAX 850-434-2650  
TOM@SELANDESIGN.COM

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
No. 54974  
THOMAS GRAY

ESCAMBIA COUNTY FLORIDA



## Site Description

The proposed Beulah Academy of Science Gym project is located at 8633 Beulah Road and within the limits of Escambia County, Florida.

The project consists of the construction of a new 16,2050 sf gymnasium. Infrastructure improvements proposed with this project include installation of an underground stormwater conveyance system and an expanding the existing onsite stormwater retention pond. The project parcel is 30.41 acres; however, this project will only disturb approximately 3.00 acres. The site is located within the Eleven Mile Creek drainage basin. The developed areas of the site generally slope from west to east directing runoff from the existing improvements into a previously permitted stormwater retention pond. Following construction, all stormwater runoff generated from the proposed and existing improvements will be treated and attenuated by the expanded onsite retention basin located in the northeast corner of the site. The pond will not include a positive discharge and will retain all stormwater generated by rainfall events up to and including a 100 year storm. Stormwater runoff discharge from the site during construction activities is not expected. All runoff from the areas of disturbance should naturally sheet flow into the existing basin or routed to the proposed inlets. Should runoff discharge from the site during a heavy rainfall event, the expected latitude and longitude of the discharge point are 30°31'54.66" N & 87°22'50.65" W.

According to a the USDA SCS maps, the predominant soil types found on-site consist of #32 Troup Sand, 0 to 5 percent slopes. Groundwater is not expected to be encountered or adversely impact the development of this property. However, the potential for shallow perched/laterally flowing groundwater conditions to be present during construction exists given the lower permeability soils found near the surface.

## Erosion and Sedimentation Controls

Erosion and sedimentation from the construction site shall be controlled at all times using Best Management Practices (BMPs). Perimeter controls shall be installed prior to clearing activities or any construction activity that disturbs soils. Installation of those controls may be staged to correspond with the clearing and construction schedule. Immediate after clearing activities appropriate controls shall be installed to limit and minimize the velocity of stormwater runoff over unprotected soils. Temporary BMPs shall be used as necessary inside the perimeter controls as the construction progresses. Perimeter controls shall be actively maintained until final stabilization of those portions of the site uphill of the perimeter controls. Temporary controls shall be removed when stabilization is achieved or when necessary for the next stage of construction. Controls shall be consistent with the performance standards for erosion and sedimentation control as set forth in Section 62-40.432 F.A.C.

## Stabilization and Structural Practices

Stabilization practices may include, but not limited to, temporary seeding, mulching, geotextiles, permanent sod and preservation of existing vegetation. Preservation of the existing vegetation should always be the first choice BMP. Where disturbed soils are to remain for extended periods, temporary seeding should be considered prior to final sod stabilization. A record shall be maintained of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site and when stabilization measures are initiated. Stabilization measures shall be initiated as soon as practicable, but in no case more than 14 days, in those areas of the site where construction activities have temporarily or permanently ceased.

Structural practices shall divert flows from exposed soils, store flows, retain sediment on-site, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but not limited to, silt fences, earth dikes, diversion swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems and temporary or permanent sediment basins.

## Stormwater Management

A single row of type III silt fencing shall be installed along the downstream sides of all areas to be disturbed as illustrated on the demolition & erosion control plan. This will limit the extent of construction and help deter encroachment onto the adjacent properties as well as assist in preventing downstream sedimentation. A gravel construction entrance does not appear necessary at this time given the onsite asphalt drive aisles. Should sediment tracking persist during construction activities, a rock construction entrance shall be constructed at the non-improved, designated construction ingress/egress. Tree protection barriers shall be installed around each of the existing trees to remain found within the construction boundaries. All of the aforementioned BMP's shall be in place prior to any activity that disturbs soils. After the required light clearing and rough grading activities, check dams and additional silt fencing and hay bales shall be installed, as necessary, uphill of the perimeter controls to reduce runoff velocities and the potential for excessive erosion. The proposed stormwater pond expansion shall first be constructed and utilized for storage and disposal of all stormwater runoff to help avoid sedimentation onto the adjacent properties. The pond should be under-excavated and all feasible on-site runoff shall be directed towards this basin during construction activities. Installation of stormwater inlets should take place next. As the grading activities progress, a depressed area shall be constructed around these inlets surrounded by hay bales and silt fencing for inlet protection. These depressed areas shall also act as sediment basins. Runoff from uphill areas shall be directed to these inlets, where feasible, by diversion swales. The remaining runoff downhill from the proposed inlets shall be directed into the already constructed stormwater basin or reinforced perimeter erosion control also utilizing diversion swales. These swales may require temporary seeding and check dams to minimize velocities and avoid excessive erosion. Rip-rap or similar velocity control is to be used, as necessary, at the outfalls from the stormwater management system for velocity dissipation prior to discharge off-site. Silt fences, and hay bales if necessary, shall be installed across the site until final stabilization is achieved and acceptance by the owner.

## Controls for Other Potential Pollutants

A materials management area shall be designated on-site for protected storage of chemicals, solvents, fertilizers and other potentially toxic materials. Storage areas can become a major source of risk due to possible mishandling of materials and accidental spills. An inventory should be compiled of the storage area and the site. Special care should be taken to identify any materials that have the potential to come into contact with stormwater.

Petroleum products such as oil gasoline, lubricants and asphaltic substances should be handled carefully to minimize their exposure to stormwater. These management practices should be used to reduce the risks of using petroleum products:

- Have equipment available to contain and clean up petroleum spills in fuel storage areas or on board maintenance and fueling vehicles.
- Where possible, store petroleum products and fuel vehicles in covered areas and construct dikes to contain any spills.
- Contain and clean up petroleum spills immediately.
- Perform preventative maintenance for on-site equipment to prevent leakage.
- Apply asphaltic substances properly according to the manufacturer's instructions.

Hazardous products including, but not limited to, paints, acids for cleaning masonry surfaces, cleaning solvents, chemical additives used for soil stabilization, and concrete curing compounds should be properly handled. These practices will help avoid pollution of stormwater by these materials:

- Keep equipment to contain and clean up spills of hazardous materials in the areas where the materials are stored.
- Contain and clean up spills immediately after they occur.
- Keep materials in a dry, covered area.
- Store materials in the original manufacturer's containers whenever possible, because special handling instructions usually are printed on the containers.

Pesticides include insecticides, rodenticides, and herbicides that are commonly used on construction sites. These management practices will reduce the amount of pesticides that could contact stormwater:

- Handle pesticides as infrequently as possible.
- Store materials in the original manufacturer's containers whenever possible, because special handling instructions usually are printed on the containers.
- Observe all applicable federal, state and local regulations when using, handling, or disposing of pesticides.
- Store pesticides in a dry, covered area.
- Provide curbs or dikes to contain spills.
- Have measures on site to contain and clean up spills.
- Strictly follow recommended application rates and methods.

Fertilizers and detergents usually contain nutrients that can be a major source of pollution in stormwater. These practices should be used to reduce the risks of nutrient pollution:

- Limit the application of fertilizers to the minimum area and the minimum recommended amounts.
- Reduce exposure of nutrients to stormwater runoff by working the fertilizer into the soil to a depth of 4 to 6 inches.
- Apply fertilizer more frequently, but at lower application rates.
- Limit hydroseeding in which lime and fertilizers are applied to the ground surface in one application.
- Implement good erosion and sediment control to help reduce the amount of fertilizer lost as a result of erosion.
- Limit the use of detergents on the site. Wash water containing detergents should not be discharged to the stormwater management system.
- Apply fertilizer and use detergents only in the recommended manner and amounts.

Proper management and disposal of building materials and other construction site wastes are an essential part of pollution prevention. Construction wastes include surplus or refuse building materials as well as hazardous wastes. Management practices for these wastes include trash disposal, recycling, material handling, and spill prevention and clean up. These practices should provide for proper disposal of construction wastes:

- Designate a waste disposal area on the site.
- Provide an adequate number of containers with lids or covers that can be placed over the container prior to rainfall. Locate containers in covered areas, where possible.
- Arrange for scheduled waste pick up. Adjust waste collection schedule as necessary to prevent overflow of the containers.
- Ensure that construction waste is collected, removed, and disposed of only at authorized disposal areas in compliance with applicable State and/or local waste disposal regulations.

Offsite vehicle tracking of sediments and the geration of dust shall be minimized. A stabilized construction access road shall be utilized to reduce off-site tracking. Off-site sediment removal should be conducted at a frequency necessary to minimize impacts. Vehicle wash area should be considered if off-site tracking becomes excessive.

The construction site must have temporary sanitary sewer facilities for on-site personnel. Portable facilities may be utilized throughout the site. Licensed domestic waste haulers must be contracted to regularly remove the sanitary wastes and to maintain the facilities in good working order. The temporary construction trailer may have sanitary sewer facilities with a holding tank. A licensed domestic waste hauler shall also use this facility. An on-site septic system or the construction trailer is not allowed. Temporary sanitary sewer facilities shall be permitted by the local building department in accordance with applicable State and local regulations.

## Maintenance and Inspection Controls

Controls of pollutants shall be maintained throughout construction period and until final stabilization is achieved. Qualified personnel shall inspect all points of discharge and all disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural controls, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of every storm event that produces at least 0.25 inches of rainfall. Where sites have been finally stabilized, such inspection shall be conducted at least once every month until a Notice of Termination has been submitted.

- Stabilization Measures – Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for, pollutants leaving the site. The inspection should reveal whether the area was stabilized correctly, whether there has been damage to the area since it was stabilized, and what should be done to correct any problems.
- Structural Controls – Silt fences, hay bales and other erosion control measures shall be inspected regularly for proper positioning, anchoring, and effectiveness in trapping sediments. The inspection should reveal whether the control was installed correctly, whether there has been damage to the control since installation, and what should be done to correct any problems. Sediment should be removed from the uphill side of the silt fence and the fence should be reconstructed as necessary. Hay bales shall be added or replaced as necessary to provide effective control.
- Discharge Points – Discharge points shall be inspected to determine whether erosion control measures are effective in preventing significant amounts of pollutants from leaving the site. Silt fences and hay bales shall be maintained or replaced as necessary. The inspection should reveal whether the on-site BMPs are effective, and what should be done to increase the effectiveness.
- Construction Entrances – Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking. The inspection should reveal whether the stabilization of the construction entrance is effective, and what should be done to increase the effectiveness.
- Areas Used for Storage of exposed Materials – These are locations where construction materials (including excavated soils) are stored. The inspection should reveal the potential for excessive erosion and sedimentation, and what actions should be implemented to reduce the risks of pollution.

Based on the result of the inspection, all maintenance operations needed to assure proper function of all controls, BMPs, practices or measures identified in this Plan shall be done in a timely manner, but in no case later than 7 calendar days following the inspection.

A Report summarizing the scope of each inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations related to the implementation of the stormwater pollution prevention plan, and modifications to the stormwater pollution prevention plan shall be prepared and retained as part of the stormwater pollution prevention plan for at least three years from the date that the site is finally stabilized. Such report shall identify any incidence of non-compliance.

### IMPLEMENTED BMP'S

Type:	Implemented by:	Company Name, Contact Person, Address & Phone Number
Perimeter Silt Fencing/ Hay Bales		
Inlet Protection		
Temporary Construction Entrance		
Tree Barriacades		

## Contractor Certification

This Stormwater Pollution Prevention Plan must clearly identify, for each measure identified within the Stormwater Pollution Prevention Plan, the contractor(s) or subcontractor(s) that will implement each measure. All contractor(s) and subcontractor(s) identified in the Stormwater Pollution Prevention Plan must sign the following certification:

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder"

Name, Title	Signature	Company Name, Address & Phone Number	Date

## Contractor Requirements

The contractor must have technical expertise in erosion prevention and sediment control. The contractor must at all time maintain erosion control methods that prevent any violation of the NPDES program.

## Faulty Installation and/or Poor Maintenance

Most noncompliance occurs because measures were not installed correctly or maintained properly, or both. Determining the reason why the measures are failing requires technical knowledge about the devices and how to construct them properly. Contractors failure to control erosion, sedimentation or turbidity both onsite and offsite is not acceptable. Failure to do so may result in possible fines and/or termination from the site without payment for construction progress.

## Compliance

The goal of the program is to prevent accelerated erosion and off-site sedimentation. The contractor is the first person to determine if the performance standards and intent of the rule are being met. He/She is the key person in ensuring that the construction site is evaluated fairly and consistently and that the site is kept in compliance.

The erosion and sediment control rules are performance oriented. That is, the measures used at a construction site must be effective in controlling erosion and preventing off-site sedimentation for the site to be in compliance. Following an approved plan and installing the control measures may not be enough for a site to be in compliance with the rules. If erosion and off-site sedimentation occur, the contractor will be responsible for installing additional measures to correct any problem associated with compliance of the NPDES permit or any other permit required for the site construction. The contractor will also be completely responsible for any fines levied by any governing agency on the project during construction.

The rules are also flexible, allowing the contractor to decide the most economical and effective means of erosion control. This encourages the use of innovative techniques and specifically designed erosion control systems. The contractor is the key individual in making this kind of performance based rule work because the contractor is the first person to recognize performance failures and remedy the problems.

The contractor's job is to:

1. Determine that an erosion and sediment control plan for the site has been approved.
2. Determine that all specified practices have been installed and are being maintained according to the plan.
3. Determine that both on-site and off-site sedimentation, erosion or turbidity is being prevented. If the contractor finds deficiencies, appropriate action must be taken to attain compliance.

## Control of Non-Stormwater Discharges

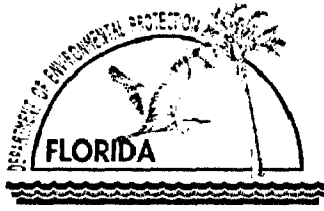
It is expected that the following non-stormwater discharges may occur from the site during construction period: water from water line flushing, pavement wash water (where no spills or leaks of toxic or hazardous materials have occurred), and uncontaminated groundwater (from dewatering excavation). If solid discharges do occur, they will be directed to the temporary sediment basin prior to discharge. Turbid water from the stormwater pond shall not be pumped directly into either of the receiving waters. Any pumped water from the stormwater pond shall be treated so as to not allow a discharge of polluted stormwater. Treatment can include silt fences, settling ponds, the proper use of flocculating agents or other appropriate means.

Project Name and location information:	BEULAH ACADEMY OF SCIENCE GYM 8633 BEULAH ROAD, PENSACOLA 32526
Responsible Authority Information:	KEVIN BAILEY 8633 BEULAH ROAD, PENSACOLA 32526 850-232-9684
Project Contact:	FRED HUMPHREYS 470 TURNBERRY RD, CANTONMENT 32533 850-777-1478

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Operator and/or Responsible Authority)

Date



## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER NOTICE OF TERMINATION (RULE 62-621.300(6), F.A.C.)

You must use this form to terminate coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities provided in subsection 62-621.300(4), F.A.C., the Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity provided in subsection 62-621.300(5), F.A.C. as well as the conditional exclusion for "no exposure" of industrial activities and materials to stormwater provided in paragraph 62-620.100(2)(a), F.A.C.

All information provided on this form shall be typed or printed in ink.

### I. TERMINATION INFORMATION:

A. Facility ID/Project Number:		
B. Reason for Termination: Check all that apply:		
<input type="checkbox"/>	No longer operator of the facility/project.	
<input type="checkbox"/>	Final stabilization criteria is met and all stormwater discharges associated with construction activity including dewatering operations have ceased (for construction activity only).	
<input type="checkbox"/>	All stormwater discharges associated with industrial activity have ceased (for industrial activity only).	
<input type="checkbox"/>	No longer meet the condition of "no exposure" (for industrial activity only).	

### II. OPERATOR INFORMATION:

A. Operator Name:		
B. Address:		
C. City:	D. State:	E. Zip Code:
F. Responsible Authority:		G. Responsible Authority's Phone No.:
H. Responsible Authority's E-mail Address:		I. Responsible Authority's Fax No.:

### III. FACILITY/PROJECT INFORMATION:

A. Name:		
B. Address/Location:		
C. City:	D. State:	E. Zip Code:
F. County:		

### IV. CERTIFICATION:

I certify under penalty of law that all stormwater discharges associated with industrial or construction activity from the identified facility or project that are authorized by the referenced State of Florida generic permit have been eliminated, the facility no longer meets the conditional exclusion for "no exposure" outlined in paragraph 62-620.100(2)(a), F.A.C., or that I am no longer the operator of the facility or project. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge stormwater associated with industrial or construction activity under a generic permit, and that discharging pollutants in stormwater associated with industrial or construction activity to surface waters of the State is unlawful unless authorized by a permit issued pursuant to Section 403.0885, F.S. I also understand that the submission of this Notice of Termination does not release an operator from liability for any violations of their generic permit or conditional exclusion for "no exposure" from NPDES stormwater permitting for industrial activities.

Responsible Authority Name and Official Title (Type or Print):

Responsible Authority Signature:

Date Signed:

<sup>1</sup> Signatory requirements are contained in Rule 62-620.305, F.A.C.

DEP Form 62-621.300(6)  
Effective Date: 02/2/05

### Stormwater Pollution Prevention Plan Inspection Report Form Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: \_\_\_\_\_ FDEP NPDES Stormwater Identification Number: \_\_\_\_\_

Location	Rain data	Type of control (see below)	Date installed/modified	Current Condition (see below)	Corrective Action / Other Remarks
	Weekly Report				

Condition Code:

G = Good

M = Marginal, needs maintenance or replacement soon

P = Poor, needs immediate maintenance or replacement

C = Needs to be cleaned

O = Other

#### Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth berm	11. Vegetative buffer strip	20. Stabilized aggregate roadway/parking	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction driveway stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Club and gutter	25. Hay bales	34. Turbidity Barrier
8. Pipe slope drain	17. Paved road surface	26. Geotextile	35. Dewatering (pump/phase/filter/well point, etc.)
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	36. Other

Inspector Information:

Name

Qualification

Date

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

\*\*\*\*\*

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

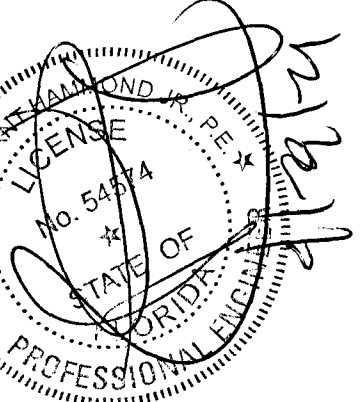
Name (Responsible Authority)

Date

REVISIONS	DATE	REVISED PLANS AS PER ESCAMBIA COUNTY DRC REVIEW COMMENTS	REVISED PLANS AS PER ECUA PER REVIEW COMMENTS
NO.	Δ	04/20/2021	04/21/2021

THIS DRAWING IS THE PROPERTY OF HAMMOND ENGINEERING, INC. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED UPON REQUEST.

HAMMOND ENGINEERING, INC.  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH "S" STREET  
PENSACOLA, FLORIDA 32505  
850 434-2603  
FAX 850-434-2650  
TOM@SELANDDDESIGN.COM



SITE DEVELOPMENT  
DESIGNED BY: RLS  
CHECKED BY: TGH  
DATE: 02/25/21  
SCALE: AS SHOWN  
NOT RELEASED FOR  
CONSTRUCTION  
BY: DATE:

DRAWN BY: CJB	DESIGNED BY: RLS
CHECKED BY: TGH	DATE: 02/25/21
SCALE: AS SHOWN	NOT RELEASED FOR CONSTRUCTION
BY:	DATE:

PROJECT NO: 20-085

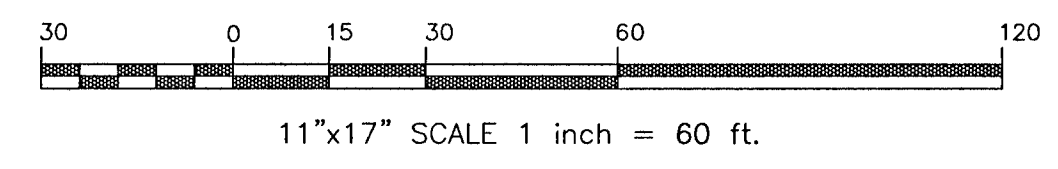
SHEET: C4





Know what's below  
Call before you dig

GRAPHIC SCALE  
22"x34" SCALE 1 inch = 30 ft.



11"x17" SCALE 1 inch = 60 ft.

CONTRACTOR TO NOTIFY SUNSHINE 811 A MINIMUM 2  
BUSINESS DAYS IN ADVANCE PRIOR TO DIGGING WITHIN  
THE RIGHT OF WAY; 1-800-432-4770

LEGEND:

	DENOTES EXISTING ASPHALT		DENOTES EXISTING STORMWATER MANHOLE TO BE REMOVED
	DENOTES EXISTING GRAVEL		DENOTES EXISTING STORMWATER INLET
	DENOTES EXISTING CONCRETE		DENOTES EXISTING SANITARY SEWER CLEANOUT
	DENOTES EXISTING ASPHALT TO BE REMOVED		DENOTES EXISTING SANITARY SEWER MANHOLE
	DENOTES EXISTING STORM PIPE		DENOTES EXISTING UTILITY POLE
	DENOTES EXISTING STORM PIPE TO BE REMOVED		DENOTES EXISTING TREE TO REMAIN
	DENOTES EXISTING FENCE		DENOTES EXISTING TREE TO BE REMOVED
	DENOTES EXISTING OVERHEAD UTILITIES		DENOTES EXISTING FIRE HYDRANT
	DENOTES PROPOSED SILT FENCE		DENOTES EXISTING SIGN
	DENOTES PROPOSED HAY BALE EROSION CONTROL PROTECTION		DENOTES EXISTING WATER SPIGOT
	DENOTES PROPOSED TREE PROTECTION BARRIER		DENOTES EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082
			DENOTES EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082 TO BE REMOVED/REPLACED

**BENCHMARKS**

BENCHMARK "A"  
SET PINK "KJM"  
CAPPED IRON ROD  
ELEV. = 119.47'

BENCHMARK "B"  
SET PINK "KJM"  
CAPPED IRON ROD  
ELEV. = 118.43'

**BENCHMARK NOTE:**  
EXISTING BENCHMARKS TO BE LOCATED AND  
RE-ESTABLISHED BEFORE REMOVAL

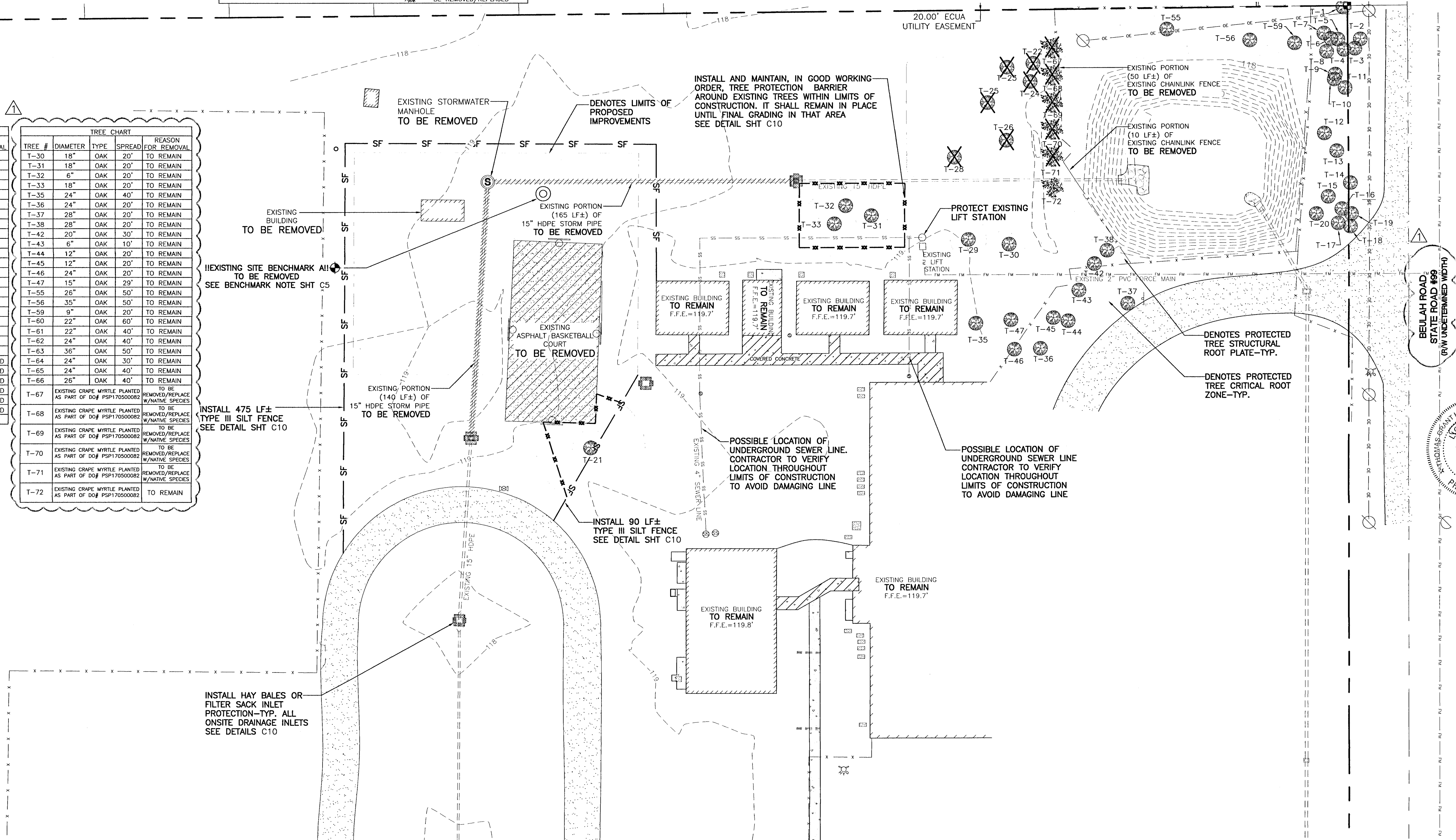
- DEMOLITION/EROSION CONTROL NOTES**
- WHERE ASPHALT/CONCRETE TO BE REMOVED EXTENDS PAST PROPERTY LINE, CONTRACTOR TO COORDINATE PROPOSED REMOVAL WITH ADJACENT PROPERTY OWNER TO ASSURE HE/SHE DESIRES MISCELLANEOUS IMPERVIOUS SURFACE TO BE REMOVED.
  - WHERE EXISTING ASPHALT/CONCRETE IS BEING REMOVED ON PROPERTY LINE, REMOVAL SHALL BEGIN AT THE PROPERTY LINE AND WORK TOWARDS THE INTERIOR OF THE PROPERTY. INITIALLY, A 3'± STRIP OF EXISTING ASPHALT/CONC. SHALL BE REMOVED NEXT TO THE PROPERTY LINE TO ALLOW FOR INSTALLATION OF PROPOSED EROSION CONTROL BMP'S.
  - IT IS UNDERSTOOD THAT WHERE SILT FENCING IS ILLUSTRATED ON EXISTING ASPHALT/CONC. THAT THE EXISTING ASPHALT/CONC. SHALL BE REMOVED IN THAT IMMEDIATE AREA PRIOR TO INSTALLATION OF BMP.
  - THE EROSION AND SEDIMENT CONTROL RULES ARE PERFORMANCE ORIENTED. THAT IS, THE MEASURES USED AT A CONSTRUCTION SITE MUST BE EFFECTIVE IN CONTROLLING EROSION AND PREVENTING OFF-SITE SEDIMENTATION FOR THE SITE TO BE IN COMPLIANCE FOLLOWING AN APPROVED PLAN AND INSTALLING THE CONTROL MEASURES MAY NOT BE ENOUGH FOR A SITE TO BE IN COMPLIANCE WITH THE RULES. IF EROSION AND OFF-SITE SEDIMENTATION OCCUR, THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING ADDITIONAL MEASURES TO CORRECT ANY PROBLEM ASSOCIATED WITH COMPLIANCE OF THE NPDES PERMIT OR ANY OTHER PERMIT REQUIRED FOR THE SITE CONSTRUCTION. THE CONTRACTOR WILL ALSO BE COMPLETELY RESPONSIBLE FOR ANY FINES LEVED BY ANY GOVERNING AGENCY ON THE PROJECT DURING CONSTRUCTION.
  - EROSION CONTROL MEASURES SHOWN ARE MINIMUM REQUIREMENTS ONLY. CONTRACTOR SHALL REINFORCE AND/OR ADD ADDITIONAL MEASURES AS CONDITIONS WARRANT AND/OR AS DIRECTED BY THE PROPER REGULATORY AUTHORITIES.
  - ON SITES > 1 ACRE, IF > 1 CONTIGUOUS ACRE IS DECLARED, A GROUND COVER SUFFICIENT TO PREVENT EROSION SHOULD BE PLANTED OR OTHERWISE STABILIZED WITHIN 10 WORKING DAYS ON THE PORTION OF THE SITE UPON WHICH FURTHER ACTIVE CONSTRUCTION WILL NOT BE UNDERTAKEN WITHIN 90 DAYS.
  - TO COMPLY WITH NPDES REQUIREMENTS, EROSION CONTROL MEASURES SHALL BE INSPECTED AFTER EACH 1/2" RAINFALL EVENT OR AT LEAST WEEKLY. THE CONTRACTOR SHALL DOCUMENT SUCH INSPECTIONS AND EROSION CONTROL MAINTENANCE EFFORTS; INSPECTION RECORDS SHALL BE PROVIDED TO THE NPDES PERMIT APPLICANT FOR PROPER RECORDING TO FILE.
  - TREE PROTECTION BARRICADES SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE AND EARTH MOVING IMPACTS (I.E. ROOT RAKING, TRENCHING, GRADING, ETC.). TREE PROTECTION BARRICADES SHALL BE INSTALLED AT THE OUTSIDE PERIMETER OF EACH PROTECTED TREE'S CRITICAL ROOT ZONE. THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED BY A CIRCLE, CENTERED ON THE TREE TRUNK AND HAVING A RADIUS OF ONE FOOT FOR EACH ONE INCH OF TRUNK DIAMETER (DBH).

**TREE CHART**

TREE #	DIAMETER	TYPE	SPREAD	REASON FOR REMOVAL
T-1	6"	OAK	10'	TO REMAIN
T-2	18"	OAK	25'	TO REMAIN
T-3	18"	OAK	25'	TO REMAIN
T-4	6"	OAK	10'	TO REMAIN
T-5	12"	OAK	20'	TO REMAIN
T-6	18"	OAK	25'	TO REMAIN
T-7	8"	OAK	10'	TO REMAIN
T-8	12"	OAK	20'	TO REMAIN
T-9	18"	OAK	25'	TO REMAIN
T-10	8"	OAK	10'	TO REMAIN
T-11	8"	OAK	10'	TO REMAIN
T-12	24"	OAK	40'	TO REMAIN
T-13	14"	OAK	25'	TO REMAIN
T-14	8"	OAK	10'	TO REMAIN
T-15	6"	OAK	10'	TO REMAIN
T-16	13"	OAK	40'	TO REMAIN
T-17	12"	OAK	20'	TO REMAIN
T-18	12"	OAK	20'	TO REMAIN
T-19	8"	OAK	10'	TO REMAIN
T-20	36"	OAK	70'	TO REMAIN
T-21	30"	OAK	70'	TO REMAIN
T-22	18"	OAK	20'	STORM POND
T-23	24"	OAK	20'	STORM POND
T-24	24"	OAK	20'	STORM POND
T-25	18"	OAK	10'	STORM POND
T-26	24"	OAK	10'	STORM POND
T-28	30"	OAK	20'	STORM POND
T-29	24"	OAK	20'	TO REMAIN

**TREE CHART**

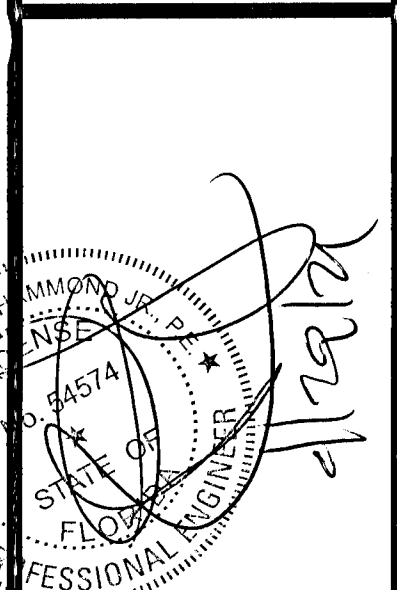
TREE #	DIAMETER	TYPE	SPREAD	REASON FOR REMOVAL
T-30	18"	OAK	20'	TO REMAIN
T-31	18"	OAK	20'	TO REMAIN
T-32	6"	OAK	20'	TO REMAIN
T-33	18"	OAK	20'	TO REMAIN
T-35	24"	OAK	40'	TO REMAIN
T-36	24"	OAK	20'	TO REMAIN
T-37	28"	OAK	20'	TO REMAIN
T-38	28"	OAK	20'	TO REMAIN
T-42	20"	OAK	30'	TO REMAIN
T-43	6"	OAK	10'	TO REMAIN
T-44	12"	OAK	20'	TO REMAIN
T-45	12"	OAK	20'	TO REMAIN
T-46	24"	OAK	20'	TO REMAIN
T-47	15"	OAK	29'	TO REMAIN
T-55	26"	OAK	50'	TO REMAIN
T-56	35"	OAK	50'	TO REMAIN
T-59	9"	OAK	20'	TO REMAIN
T-60	22"	OAK	20'	TO REMAIN
T-61	22"	OAK	40'	TO REMAIN
T-62	24"	OAK	40'	TO REMAIN
T-63	36"	OAK	50'	TO REMAIN
T-64	24"	OAK	30'	TO REMAIN
T-65	24"	OAK	40'	TO REMAIN
T-66	26"	OAK	40'	TO REMAIN
T-67	EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082			TO BE REMOVED/REPLACE W/NATIVE SPECIES
T-68	EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082			TO BE REMOVED/REPLACE W/NATIVE SPECIES
T-69	EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082			TO BE REMOVED/REPLACE W/NATIVE SPECIES
T-70	EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082			TO BE REMOVED/REPLACE W/NATIVE SPECIES
T-71	EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082			TO BE REMOVED/REPLACE W/NATIVE SPECIES
T-72	EXISTING CRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082			TO REMAIN



REVISIONS

NO.	DATE	REVISIONS
1	04/20/2021	REVISED PLANS AS PER ESCAMBIA COUNTY DRC REVIEW COMMENTS
2	04/21/2021	REVISED PLANS AS PER ECIA PER REVIEW COMMENTS

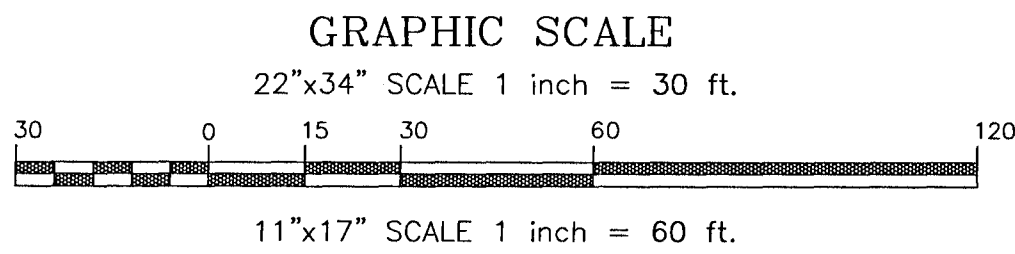
**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 1<sup>ST</sup> STREET  
PENSACOLA, FLORIDA 32505  
850 434-2603  
FAX 850-434-2650  
TOM@SELANDESIGN.COM



**SITE DEVELOPMENT  
PLANS FOR  
BEULAH ACADEMY OF  
SCIENCE GYMNASIUM  
DEMOLITION & EROSION  
CONTROL PLAN**  
ESCAMBIA COUNTY FLORIDA

DRAWN BY: CJB	DATE:
DESIGNED BY: RLS	
CHECKED BY: TGH	
DATE: 02/25/21	
SCALE: AS SHOWN	
NOT RELEASED FOR CONSTRUCTION	
BY:	

PROJECT NO: 20-085  
SHEET: C5



LEGEND:

	DENOTES EXISTING ASPHALT		DENOTES EXISTING SANITARY SEWER CLEANOUT
	DENOTES EXISTING GRAVEL		DENOTES EXISTING SANITARY SEWER MANHOLE
	DENOTES EXISTING CONCRETE		DENOTES EXISTING UTILITY POLE
	DENOTES PROPOSED CONCRETE		DENOTES EXISTING TREE TO REMAIN
	DENOTES PROPOSED SAND CHIMNEY POND BOTTOM		DENOTES EXISTING FIRE HYDRANT
	DENOTES EXISTING STORM PIPE		DENOTES EXISTING WATER SPIGOT
	DENOTES EXISTING FENCE		DENOTES EXISTING SIGN
	DENOTES EXISTING OVERHEAD UTILITIES		DENOTES EXISTING WATER SPIGOT
			DENOTES EXISTING GRAPE MYRTLE PLANTED AS PART OF DO# PSP170500082
			DENOTES PROPOSED CHAIN LINK FENCE

SITE DATA:  
PARCEL ZONING: LDR  
FLU: MU-S

BUILDING SETBACKS REQUIRED:  
FRONT SETBACK =25'  
REAR SETBACK =25'  
SIDE SETBACK =15'

MAXIMUM IMPERVIOUS SURFACE: 70%  
MAXIMUM BUILDING HEIGHT: 45'  
MAXIMUM FLOOR AREA RATIO: 1.0

### FIRE SAFETY NOTES

1. FIRE DEPT. ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 20'
2. FIRE DEPT. ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE OF 13'-6"
3. THE REQUIRED WIDTH OF A FIRE DEPT. ACCESS ROAD SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING BY THE PARKING OF VEHICLES.

PARKING CALCULATIONS:  
16,250 SF ACCESSORY BUILDING  
(PRIVATE GYMNASIUM ASSOCIATED WITH SCHOOL)  
NO PARKING REQUIRED

NOTE: HANDICAP PARKING SIGNS SHALL CONFORM TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARD INDEX NUMBER 17355, SHEET 2 OF 11, FTP-20-06, FTP-21-06, FTP-22-06

### HANDICAP ACCESSIBLE PARKING:

EXISTING PARKING LOT, LOCATED SOUTH OF BUILDINGS, WAS CONSTRUCTED FOLLOWING APPROVAL OF DEVELOPMENT ORDER #03101712. A TOTAL OF 23 PARKING STALLS (22 STANDARD AND 1 HC) WERE PERMITTED AND CONSTRUCTED. NO ADDITIONAL PARKING STALLS ARE PROPOSED WITH THIS PROJECT AND THE PROVIDED HC PARKING MEETS TABLE 208.2 OF THE FBC ACCESSIBILITY CODE

07-1S-31-1000-031-001  
TARABAY NANCY W  
8764 BLAKE EVAN CIR  
PENSACOLA, FL 32526  
ZONING: LDR  
FLU: MU-S  
USAGE: SINGLE FAMILY RESIDENCE

07-1S-31-1000-032-001  
THOMAS RICKY ALLEN  
SIKORSKI MARY ANN  
8770 BLAKE EVAN CIR  
PENSACOLA, FL 32526  
ZONING: LDR  
FLU: MU-S  
USAGE: SINGLE FAMILY RESIDENCE

07-1S-31-1000-033-001  
SHERMAN ANNA & MCCARRON JOHN  
8776 BLAKE EVAN CIR  
PENSACOLA, FL 32526  
ZONING: LDR  
FLU: MU-S  
USAGE: SINGLE FAMILY RESIDENCE

07-1S-31-1000-034-001  
HUDSON ANDREW J  
8782 BLAKE EVAN CIR  
PENSACOLA, FL 32526  
ZONING: LDR  
FLU: MU-S  
USAGE: SINGLE FAMILY RESIDENCE

07-1S-31-1000-035-001  
CURRY ERICK  
8788 BLAKE EVAN CIR  
PENSACOLA, FL 32526  
ZONING: LDR  
FLU: MU-S  
USAGE: SINGLE FAMILY RESIDENCE

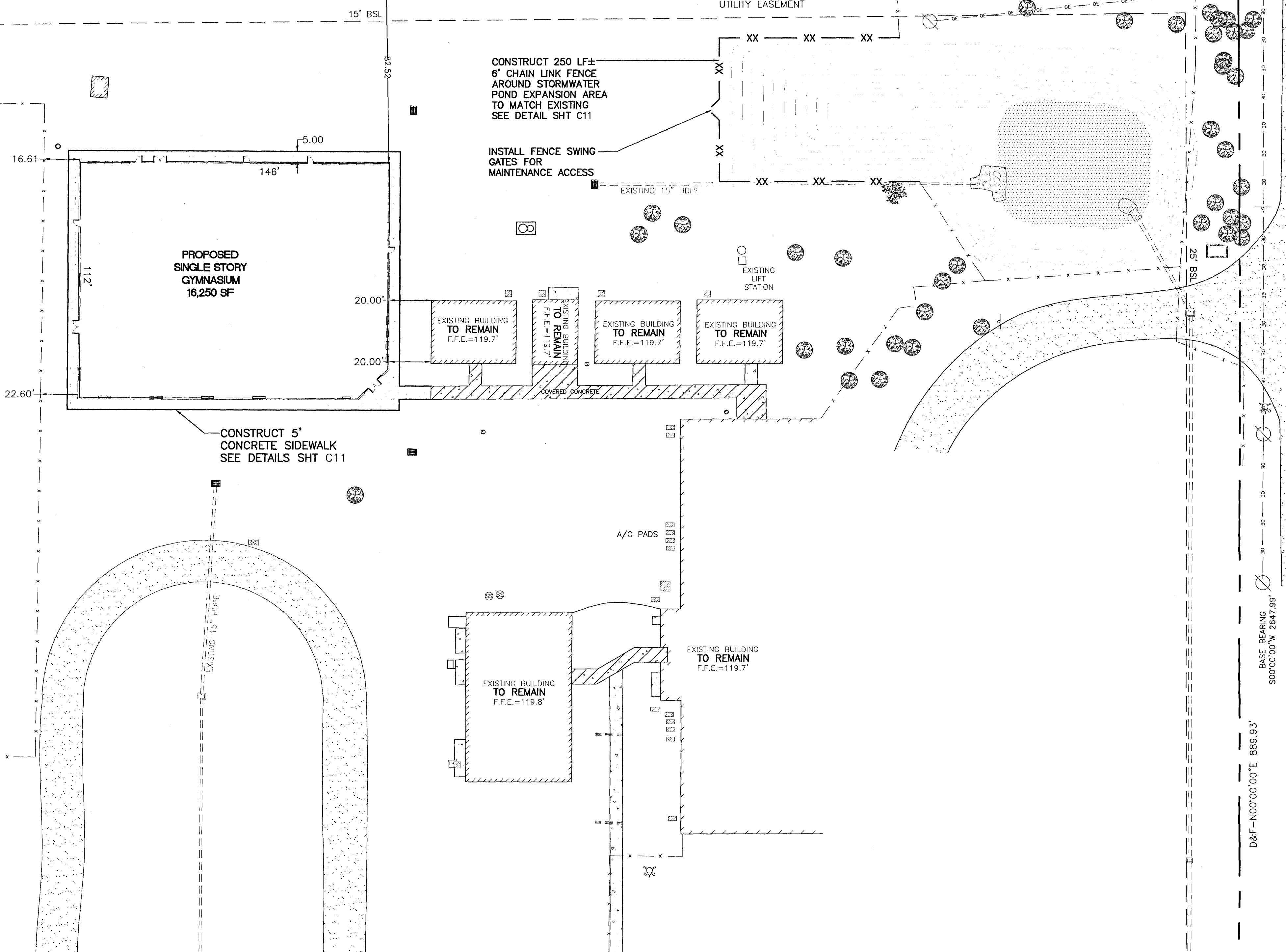
07-1S-31-1000-010-005  
ESCAMBIA COUNTY BOARD OF COUNTY COMMISSIONER  
221 PALAFOX PL SITE 420  
PENSACOLA, FL 32502  
ZONING: LDR  
FLU: MU-S  
USAGE: WASTE LAND

07-1S-31-1000-010-005  
ECUA  
PO BOX 17089  
PENSACOLA, FL 32522  
ZONING: LDR  
FLU: MU-S  
USAGE: VACANT

PROJECT AREA: 340,055 SF - 7.81 ACRES

IMPERVIOUS and PERVIOUS AREA				
	EXISTING	REMOVE	NEW	POST-CONSTRUCTION
BUILDINGS	23,480 SF	280 SF	16,250 SF	39,450 SF
ASPHALT/CONCRETE	60,356 SF	4,918 SF	2,864 SF	58,302 SF
TOTAL IMPERVIOUS AREA	83,836 SF	5,198 SF	19,114 SF	97,752 SF
ROCK AREA	1,031 SF	0 SF	0 SF	1,031 SF
LANDSCAPE AREA	235,188 SF	19,114 SF	5,198 SF	241,272 SF
PERCENTAGE OF LANDSCAPE	75%			71%

FDOT NOTE:  
THE CONTRACTOR SHALL NOTIFY FDOT 2 BUSINESS DAYS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHT-OF-WAY.



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SITE DEVELOPMENT PLANS FOR  
BEULAH ACADEMY OF  
SCIENCE GYMNASIUM  
SITE PLAN  
ESCAMBIA COUNTY FLORIDA

DRAWN BY: CJB  
DESIGNED BY: RLS  
CHECKED BY: TGH  
DATE: 02/25/21  
SCALE: AS SHOWN  
NOT RELEASED FOR CONSTRUCTION  
BY: DATE:

PROJECT NO: 20-085  
SHEET: C6





BENCHMARK "A"  
SET PINK "KJM"  
CAPPED IRON ROD  
ELEV. = 119.47'

BENCHMARK "B"  
SET PINK "KJM"  
CAPPED IRON ROD  
ELEV. = 118.43'

BENCHMARK NOTE:

EXISTING BENCHMARK "A" TO BE LOCATED  
AND RE-ESTABLISHED BEFORE REMOVAL

## STORM STRUCTURE DATA TABLE

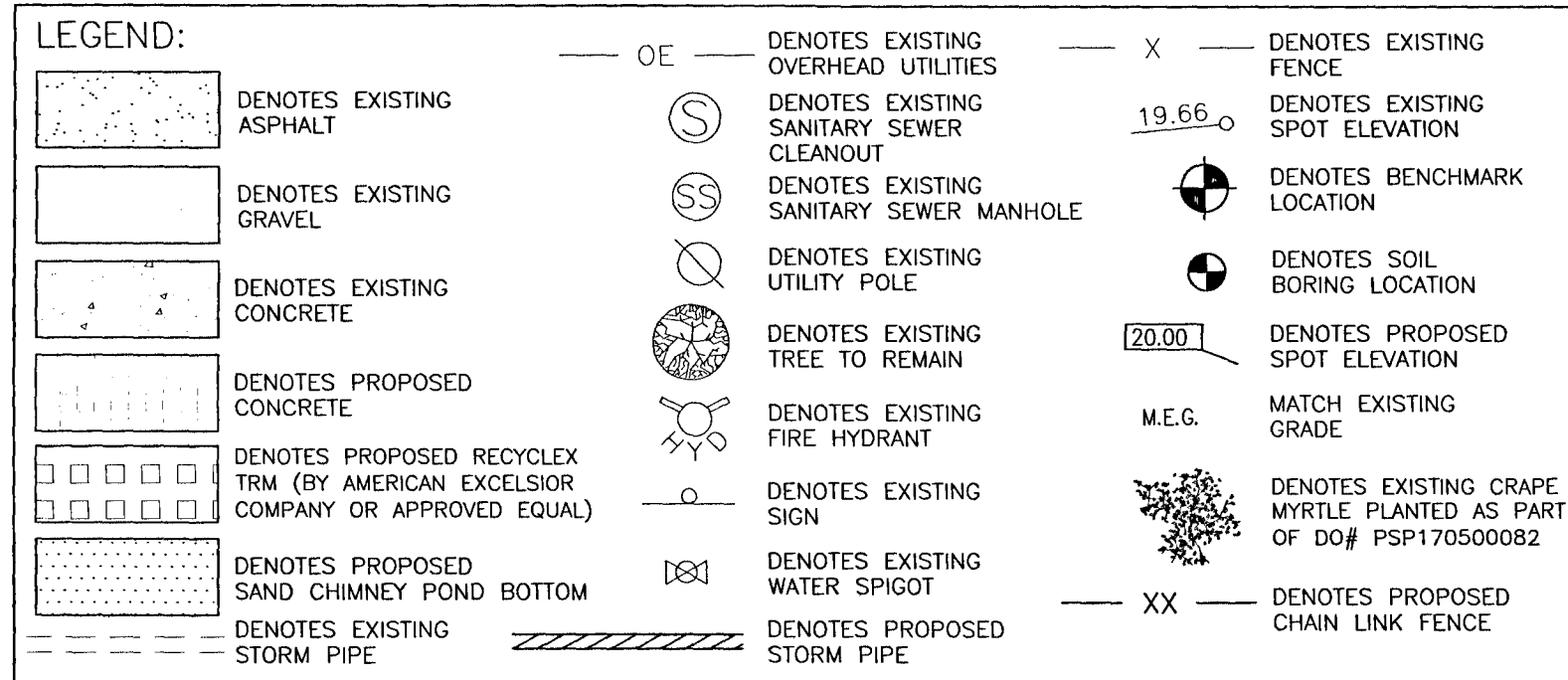
PROPOSED INLETS & STORM STRUCTURES TO CONSIST OF:

- TYPE 'C' DITCH BOTTOM INLET W/USF NO. 6210 NON-TRAFFIC RATED GRATE
- 12" NYLOPLAST DRAIN BASIN W/12" PEDESTRIAN GRATE

- |  |   |
|--|---|
| <p>① TYPE "C" INLET<br/>TOP ELEV.=118.25<br/>INV. ELEV. IN (S)=111.58+<br/>INV. ELEV. OUT (E)=111.50</p>                                   | <p>② TYPE "C" INLET<br/>TOP ELEV.=118.25<br/>INV. ELEV. IN (W)=111.05<br/>INV. ELEV. OUT (N)=111.05</p>                               |
| <p>③ 18" NYLOPLAST DRAIN BASIN<br/>TOP ELEV.=119.00<br/>INV. ELEV. IN (S)=114.30<br/>INV. ELEV. OUT (E)=114.30<br/>BOTTOM ELEV.=113.80</p> | <p>④ TYPE "C" INLET<br/>TOP ELEV.=118.50<br/>INV. ELEV. IN (W)=110.59<br/>INV. ELEV. OUT (S)=109.61<br/>INV. ELEV. OUT (E)=109.50</p> |
| <p>⑤ TYPE "C" INLET<br/>TOP ELEV.=117.75<br/>INV. ELEV. OUT (E)=108.43±</p>  |   |

FDOT NOTE:

THE CONTRACTOR SHALL NOTIFY FDOT 2 BUSINESS DAYS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHT-OF-WAY.



**RETENTION BASIN CONSTRUCTION**

1. INITIALLY INSTALL ALL EROSION AND SEDIMENT CONTROL BMP'S AS ILLUSTRATED ON THE EROSION CONTROL PLAN PROVIDED AS PART OF THESE UNDER-SHAFT (HEET CO) CONTRACT DOCUMENTS.

2. CONSTRUCT THE RETENTION BASIN ABOVE DRAIN GRADE BY PILING-EXCAVATING THE BASIN BOTTOM AND SIDES BY ABOUT 6 INCHES.

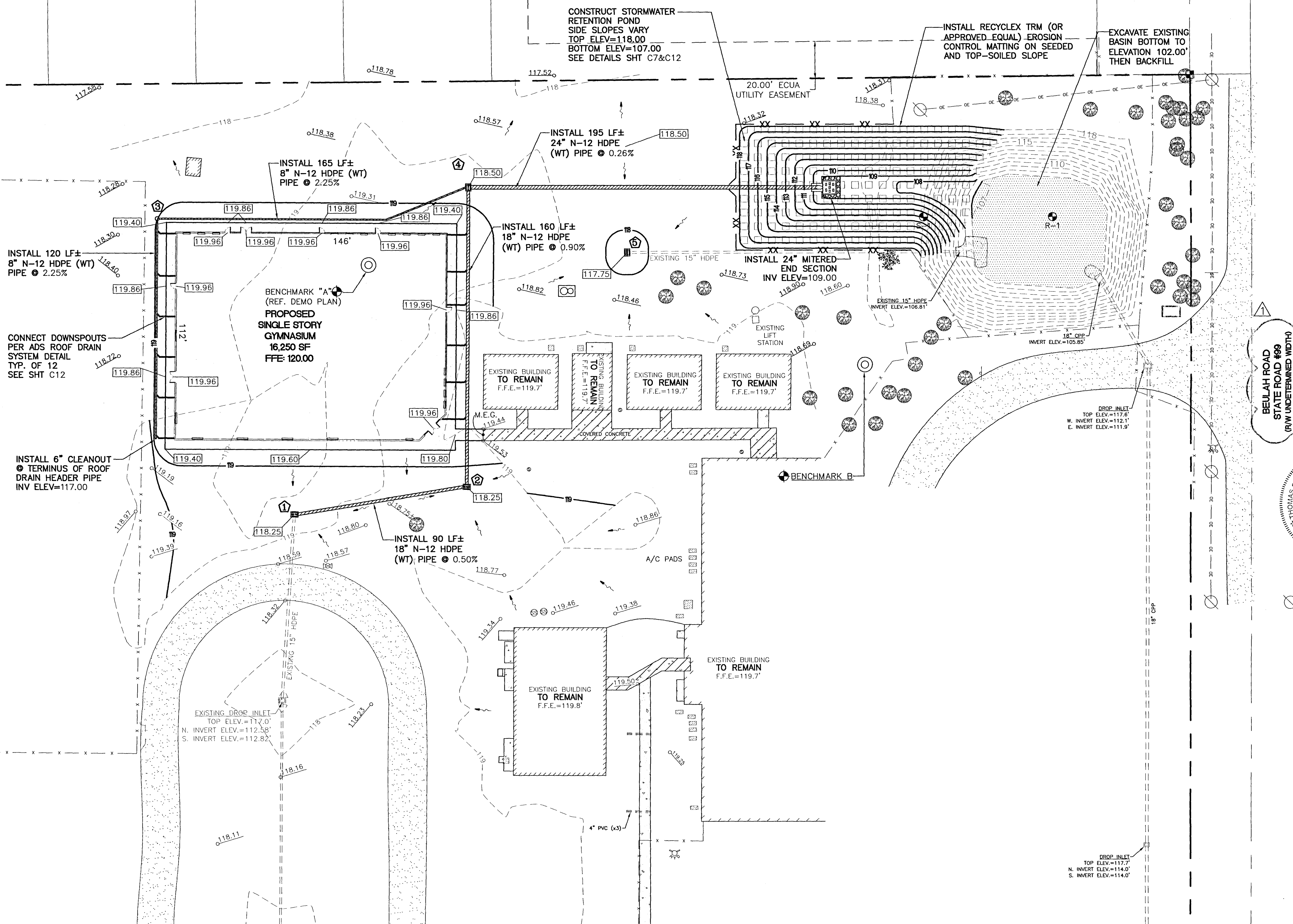
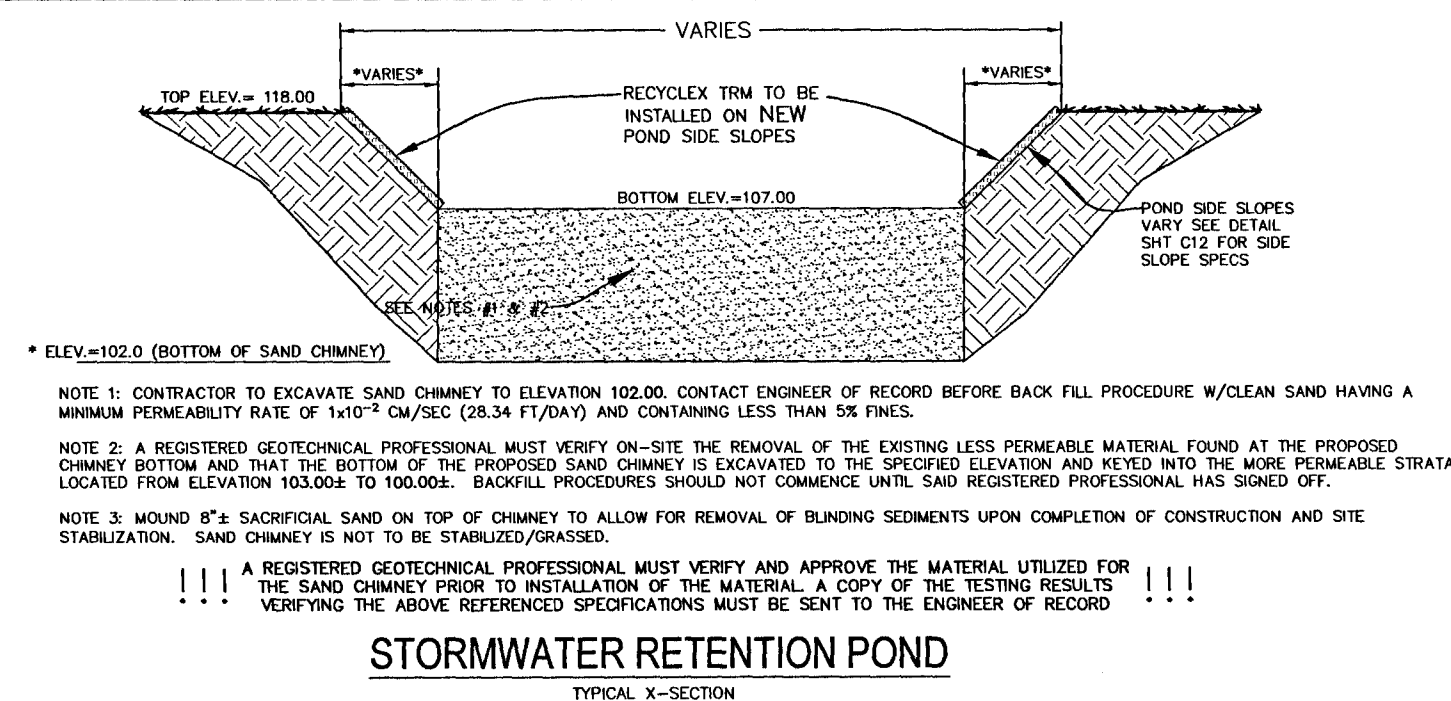
3. EXCAVATE SAND CHAINWAYS TO SPECIFIED ELEVATIONS AND BACKFILL WITH CLEAN SAND MATERIAL THAT MEETS ENGINEER PROVIDED SPECIFICATIONS. INSTALL AN EROSION CONTROL MATTING (HAY) ON TOP OF THE CHAINWAYS TO ALLOW FOR SETTLEMENT OF BURNING RESIDUES. PROVIDE STABILIZATION MATTING TO PREVENT SILT FENCING AND HAY BALES AROUND PERIMETER OF CHAINWAYS TO REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.

4. AFTER THE DRAINAGE AREA CONTRIBUTING TO THE BASIN HAS BEEN FULLY STABILIZED, THE INTERIOR SIDE SLOPES AND BASIN BOTTOM SHALL BE EXCAVATED TO FINAL DESIGN SPECIFICATIONS. THE EXCESS SOIL AND UNSUBSANTIAL MATERIAL SHALL BE REMOVED FROM THE SITE. EXCESS SOIL AND SUBSANTIAL MATERIAL SHALL BE ACCUMULATED SILTS, CLAYS, ORGANICS, AND OTHER FINE SEDIMENT MATERIAL SHALL BE REMOVED FROM THE SITE. EXCESS SOIL AND SUBSANTIAL MATERIAL SHALL BE DISPOSED OF BEYOND THE LIMITS OF THE DRAINAGE AREA OF THE BASIN.

5. ONCE THE BASIN HAS BEEN EXCAVATED TO FINAL GRADE, THE ENTIRE BASIN BOTTOM MUST BE DENSELY AND LOOSELY FOR OPTIMAL FILTRATION.

6. FINALLY, THE ENTIRE BANK SLOPE AND POND BOTTOM AREA OUTSIDE OF THE BASIN CHAINWAYS SHALL BE EXCAVATED TO FINAL GRADE.

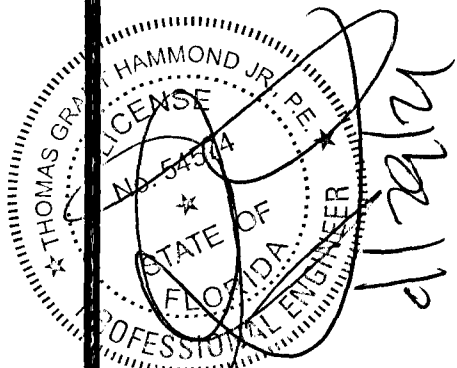
7. GUARANTEE HEALTHY GROWTH OF GRASS (FREE FROM NOXIOUS WEEDS) SUCH AS PANGOLA, ARGENTINE BASS, BERMOUDA, CENTEPIDE OR OTHER SUITABLE GRASS.



NO.	DATE	REVISIONS
A	04/20/2021	REVISED PLANS AS PER ESCAMBA COUNTY DRC REVIEW COMMENTS
A	04/21/2021	REVISED PLANS AS PER ECUA PER REVIEW COMMENTS

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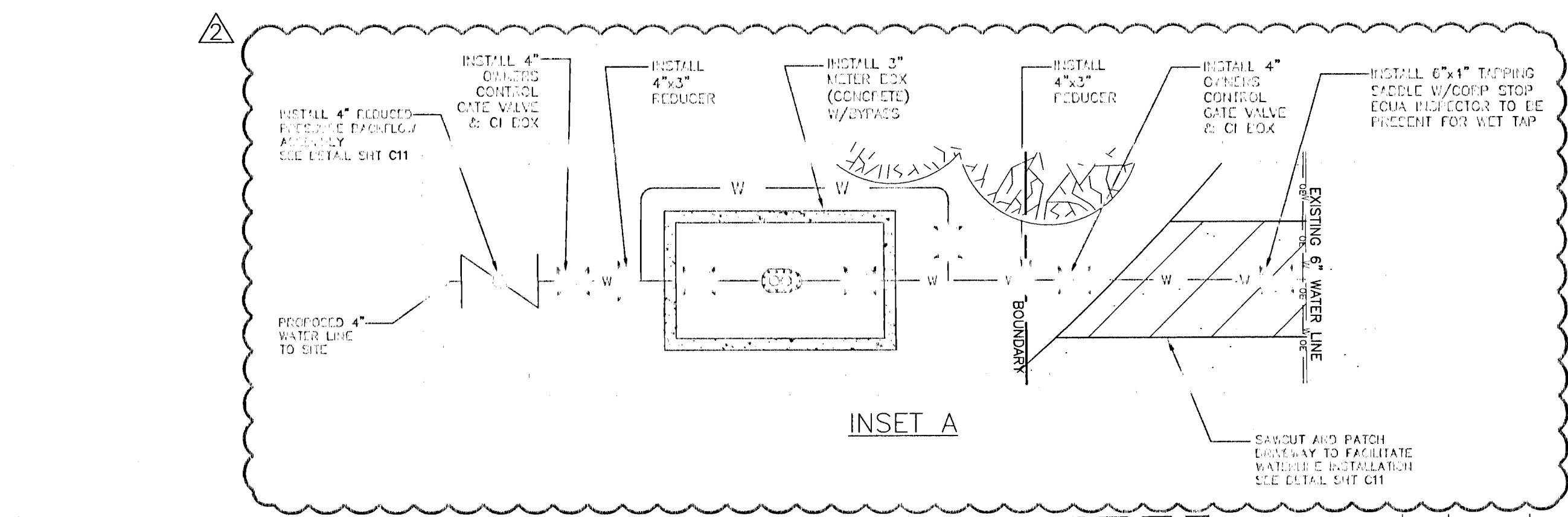
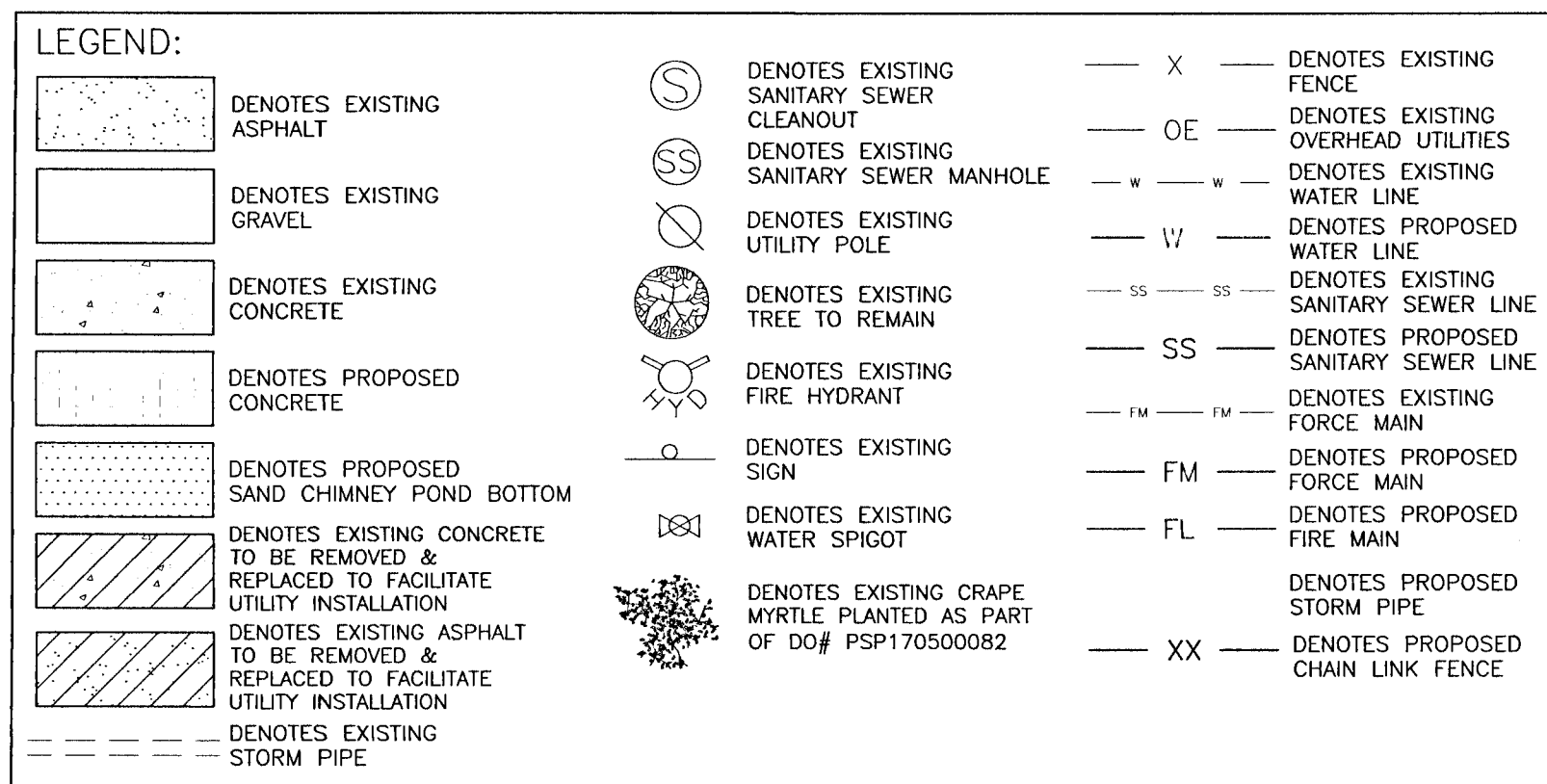
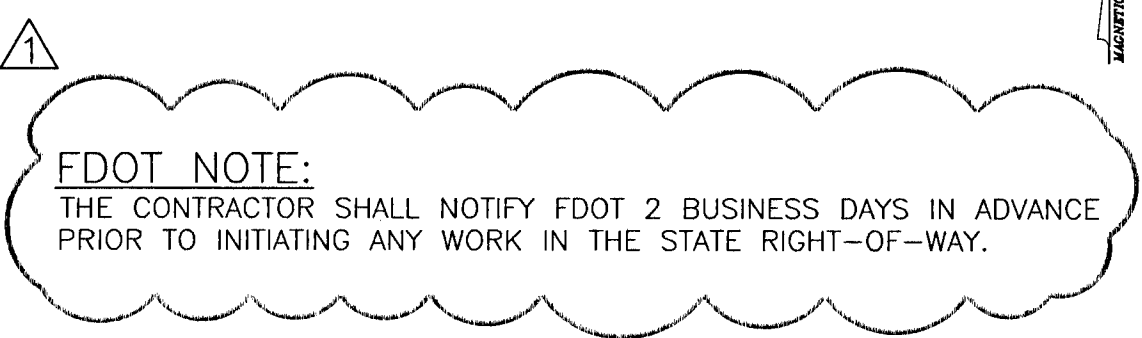


**SITE DEVELOPMENT  
PLANS FOR  
BEULAH ACADEMY OF  
SCIENCE GYMNASIUM  
GRADING &  
DRAINAGE PLAN**

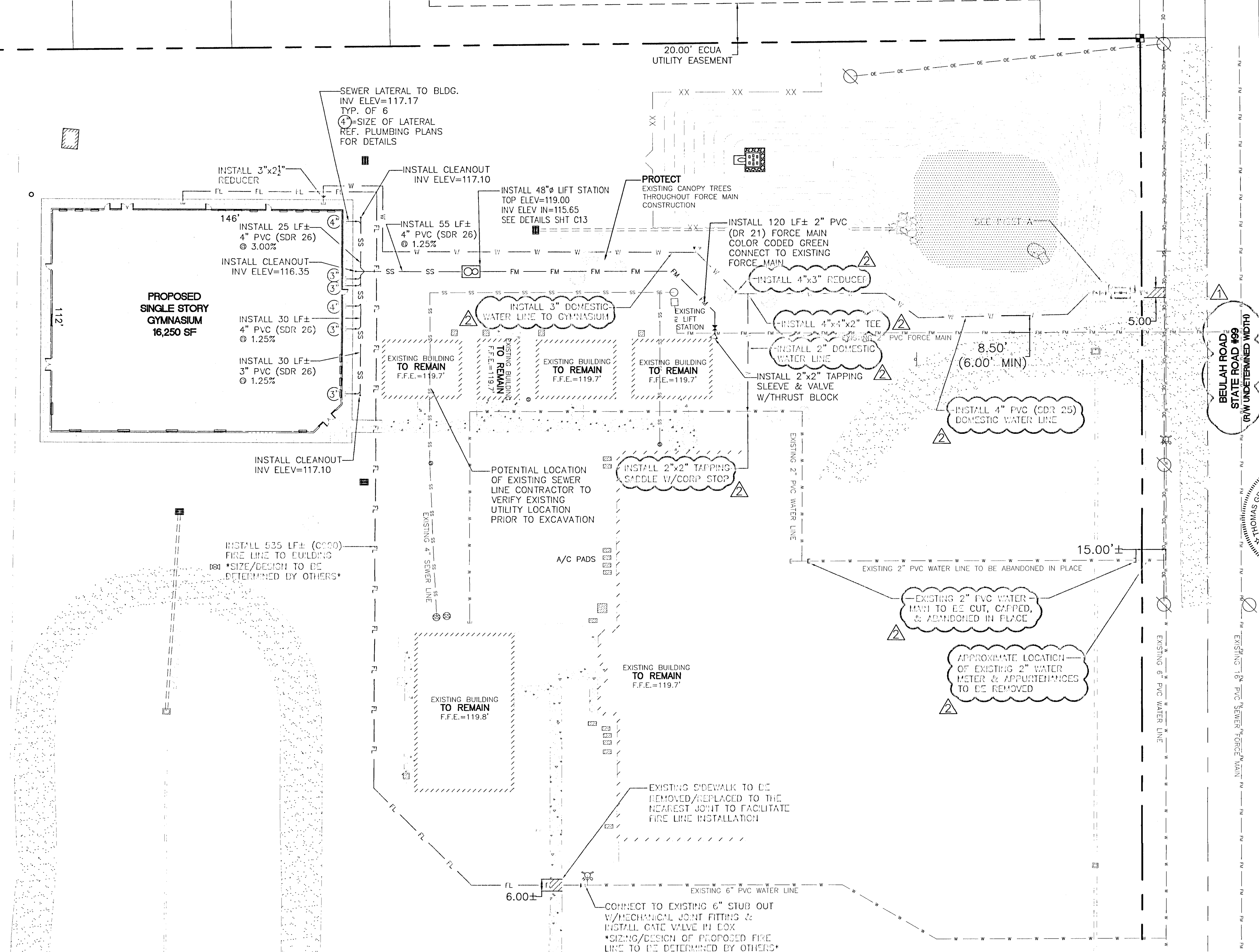
DRAWN BY: CJG  
DESIGNED BY: RLS  
CHECKED BY: TGH  
DATE: 02/25/21  
SCALE: AS SHOWN  
NOT RELEASED FOR  
CONSTRUCTION  
BY: DATE:

PROJECT NO: 20-085

SHEET: C7




- # GENERAL UTILITY NOTES:
1. All potable water and sanitary sewer work shall be done in accordance with EQDA's engineering manual.
  2. Contractor shall notify ECUA and the County Engineer 48 hours prior to the commencement of this project.
  3. Contractor shall make sewer service connections and potable water connections with an ECUA inspector present.
  4. All work shall comply with applicable standards and codes established by ECUA and the Florida Department of Environmental Protection and written specifications.
  5. Contractor shall notify Sunshine One Utilities two business days in advance prior to digging within R/W: 1-800-432-4770.
  6. The Contractor shall notify the superintendents of the water, gas, sewer, telephone and power companies 10 days in advance, and he/she needs to be on work site at least one day before the start of the excavation of any underground utilities, structures, etc., shall not relieve the Contractor from the responsibility of locating, preserving and protecting said utility or structures.
  7. Florida State Statute 553.801 requires that all excavators notify gas companies of their intention to perform any excavation at least two business days (excluding Sat., Sun. & holidays) prior to beginning work.
  8. Locations of existing utilities shown on plans are approximate only and it shall be the responsibility of the Contractor to verify the location and sizes before the start of the plans to show the existence of any underground utilities, structures, etc., shall not relieve the Contractor from the responsibility of locating, preserving and protecting said utility or structures.
  9. Property obstructions which are to remain in place, such as buildings, sewer, storm drains, water or gas pipes, electrical conduits, poles, walls, posts, etc., are to be carefully protected and are not to be displaced, unless noted.
  10. Relocation of the obstructions owned by private Property Owner, such as mailboxes, shall be the responsibility of the Contractor who must coordinate with the property Owner.
  11. Control of sedimentation and erosion shall be the Contractor's responsibility.
  12. Contractor shall dispose of by hauling away all excess material.
  13. The Utility Contractor shall make connections to the sanitary sewer as shown and shall verify locations and elevations of all utility lines to be located by the Utility Contractor. The Contractor shall include the cost of protection and/or relocation of other utilities in his bid and shall coordinate his work with other utility sub-contractors to prevent conflicts with other utility lines.
  14. Contractor shall be responsible for and comply with any testing required by the local governing agency in addition to the testing requirements outlined in the specifications.
  15. Proposed water line shall have a minimum cover of 30" and a maximum cover of 36" below finished grade unless otherwise noted.
  16. "As-built" drawings showing all service lines, laterals, manholes and valve locations measured from permanent reference points shall be furnished to the Engineer prior to acceptance.
  17. Grading around trees which are to remain shall be away from the tree in a manner to cause no damage to the tree.
  18. Contractor shall be responsible for the seeding and mulching and/or sodding of street and road shoulder areas in accordance with FDOT and applicable county requirements and standards.
  19. Water supply facilities, including mains, shall be installed, cleaned, disinfected and bacteriologically cleared for service in accordance with the latest applicable AWWA Standards and coordinated with the designated ECUA Inspector and Quality Control Supervisor.
  20. All onsite water and sewer facilities shall be privately owned, operated and maintained.
  21. Contractor is responsible for adjustment of existing utilities if proposed improvements impact existing utilities.
  22. All work to take place within the right of way or to be owned and maintained by ECUA post-construction shall be performed by a certified underground utility contractor.
  23. Contractor must locate existing water main, sanitary sewer line and gas line to be tied into and verify configuration to establish the best location for connection.
  24. Contractor shall obtain an Escambia County right of way permit prior to working within the county R/W.
  25. Contractor to verify/discover all right of way areas to be impacted prior to construction.
  26. Reference utility videos/document all sheets C11 & C13.
  27. Contractor to coordinate power supply to building with Gulf Power...850-429-2861
  28. Contractor to coordinate proposed natural gas service with Energy Services of Pensacola...850-983-5434.



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THOMAS D. JR.  
LICENSE  
No. 03574  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
12/2011

**SITE DEVELOPMENT  
PLANS FOR  
BEULAH ACADEMY OF  
SCIENCE GYMNASIUM  
UTILITY PLAN  
ESCAMBIA COUNTY FLORIDA**

DRAWN BY: GJB
DESIGNED BY: RLS
CHECKED BY: TGH
DATE: 02/25/21
SCALE: AS SHOWN
NOT RELEASED FOR CONSTRUCTION
BY:      DATE:

PROJECT NO: 20-085

SHEET: C8





**NORTH, WEST, & SOUTH BOUNDARY LINES:**  
REQUIRED BUFFERS ADDRESSED UNDER DEVELOPMENT ORDER  
#03101712. NO ADDITIONAL BUFFERS REQUIRED

EAST BOUNDARY LINE: NO BUFFER REQUIRED,  
STATE ROAD 99 (BEULAH ROAD) RIGHT OF WAY.  
PROVIDE 5' LANDSCAPE STRIP AS PER CH. 2, ART. 2,  
SEC. 2-2.2(B) DESIGN STANDARDS MANUAL.

REQUIRED MITIGATION: 69 CALIPER INCHES  
REQUIRED AS PER ART. 2, SEC. 2-5.2(a) DESIGN  
STANDARDS MANUAL.

69 CALIPER INCHES/3" CALIPER = 23 NEW, NATIVE  
CANOPY TREES

\*\*\*23 NEW, NATIVE CANOPY TREES + 5 NEW, NATIVE REPLACEMENT CANOPY TREES FOR MITIGATION OF PREVIOUSLY PERMITTED CRAPE MYRTLES = 28 TOTAL NEW, NATIVE CANOPY TREES\*\*\*

PLANT TWENTY-EIGHT (28) CANOPY TREES HAVING 3"  
(2.5" MINIMUM) CALIPER @ 4" ABOVE ROOT BALL AT  
PLANTING

NOTE: LOCATION OF MITIGATION TREES TO BE PLANTED AS ILLUSTRATED ON THIS PLAN MAY BE ALTERED TO BETTER ACCOMMODATE EXISTING AND PROPOSED IMPROVEMENTS









TREE CHART/MITIGATION TABLE					
TREE #	DIAMETER	TYPE	SPREAD	REASON FOR REMOVAL	CALIPER INCHES MITIGATION REQUIRED
T-30	18"	OAK	20'	TO REMAIN	N/A
T-31	18"	OAK	20'	TO REMAIN	N/A
T-32	6"	OAK	20'	TO REMAIN	N/A
T-33	18"	OAK	20'	TO REMAIN	N/A
T-35	24"	OAK	40'	TO REMAIN	N/A
T-36	24"	OAK	20'	TO REMAIN	N/A
T-37	28"	OAK	20'	TO REMAIN	N/A
T-38	28"	OAK	20'	TO REMAIN	N/A
T-42	20"	OAK	30'	TO REMAIN	N/A
T-43	6"	OAK	10'	TO REMAIN	N/A
T-44	12"	OAK	20'	TO REMAIN	N/A
T-45	12"	OAK	20'	TO REMAIN	N/A
T-46	24"	OAK	20'	TO REMAIN	N/A
T-47	15"	OAK	29'	TO REMAIN	N/A
T-55	26"	OAK	50'	TO REMAIN	N/A
T-56	35"	OAK	50'	TO REMAIN	N/A
T-59	9"	OAK	20'	TO REMAIN	N/A
T-60	22"	OAK	60'	TO REMAIN	N/A
T-61	22"	OAK	40'	TO REMAIN	N/A
T-62	24"	OAK	40'	TO REMAIN	N/A
T-63	36"	OAK	50'	TO REMAIN	N/A
T-64	24"	OAK	30'	TO REMAIN	N/A
T-65	24"	OAK	40'	TO REMAIN	N/A
T-66	26"	OAK	40'	TO REMAIN	N/A
T-67	EXISTING LARGE MYRTLE PLANTED AS PART OF DOF PSP175000082			TO BE REMOVED/REPLACED W/NATIVE SPECIES	N/A
T-68	EXISTING LARGE MYRTLE PLANTED AS PART OF DOF PSP175000082			TO BE REMOVED/REPLACED W/NATIVE SPECIES	N/A
T-69	EXISTING LARGE MYRTLE PLANTED AS PART OF DOF PSP175000082			TO BE REMOVED/REPLACED W/NATIVE SPECIES	N/A
T-70	EXISTING LARGE MYRTLE PLANTED AS PART OF DOF PSP175000082			TO BE REMOVED/REPLACED W/NATIVE SPECIES	N/A
T-71	EXISTING LARGE MYRTLE PLANTED AS PART OF DOF PSP175000082			TO BE REMOVED/REPLACED W/NATIVE SPECIES	N/A
T-72	EXISTING LARGE MYRTLE PLANTED AS PART OF DOF PSP175000082			TO REMAIN	N/A











1. TOTAL PROTECTED CALIPER INCHES REMOVED = 138'





2. 50 PERCENT OF THE TOTAL PROTECTED TREE TRUNK DIAMETER (DBH) INCHES REMOVED SHALL BE REPLACED IN TOTAL CALIPER INCHES OF NEW, NATIVE CANOPY TREES PLANTED:

TOTAL REQUIRED REPLACEMENT CALIPER INCHES  
138" X 0.50 = 69" OF NEW, NATIVE CANOPY TREES

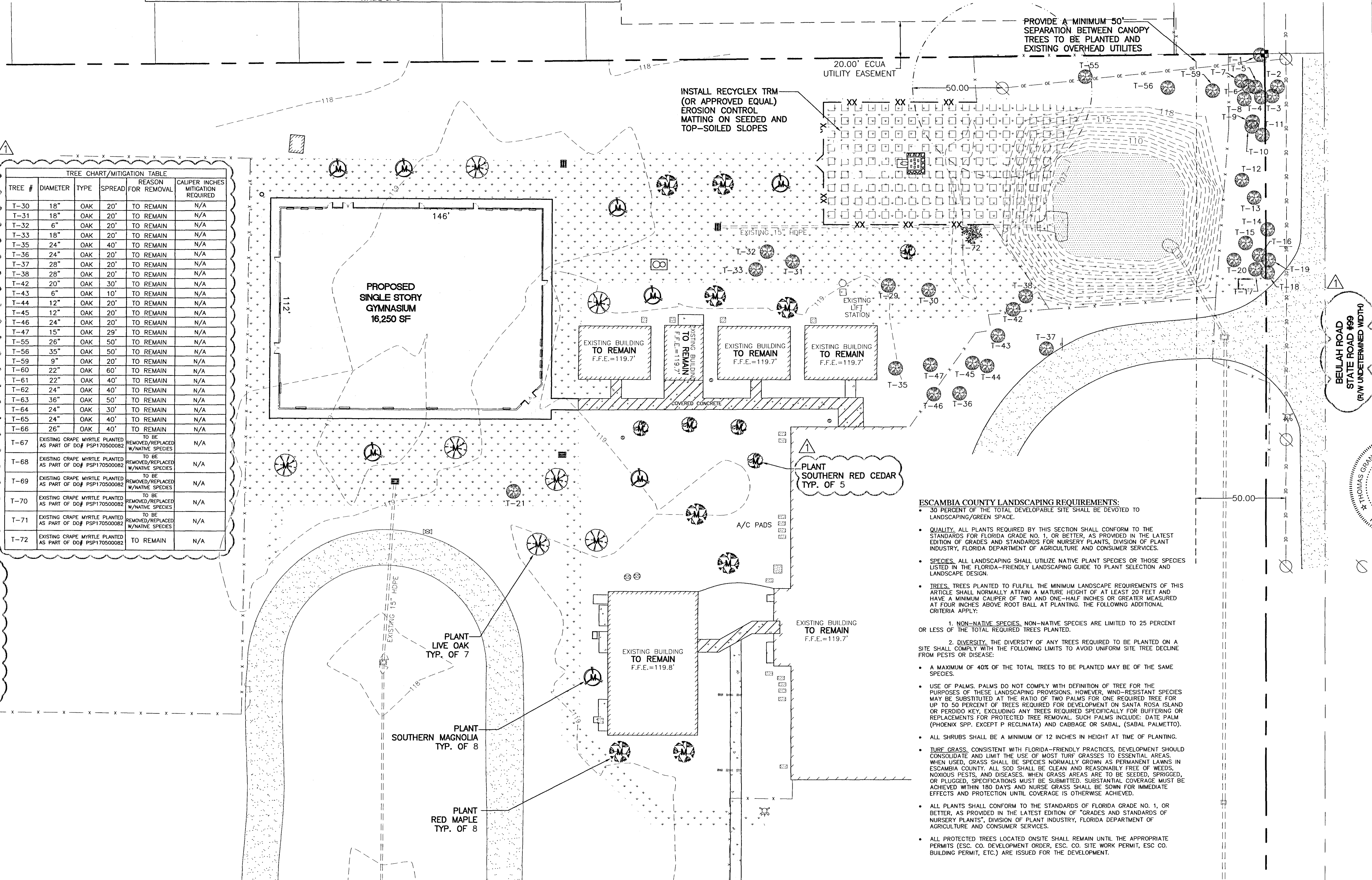
\*\*\*IN ADDITION TO THE 69" OF REQUIRED MITIGATION, 5 NEW NATIVE CANOPY TREES SHALL BE PLANTED IN THE PLACE OF THE 5 EXISTING CRAPE MYRTLES PLANTED AS PART OF DO# PSP170500082 THAT ARE SUBJECT FOR REMOVAL. SEE REQUIRED LANDSCAPE PLANTING DATA TABLE FOR MORE INFORMATION.\*\*\*

	DENOTES EXISTING ASPHALT
	DENOTES EXISTING GRAVEL
	DENOTES EXISTING CONCRETE
	DENOTES PROPOSED CONCRETE
	DENOTES PROPOSED SOD (BAHAI RECOMMENDED)
	DENOTES PROPOSED RECYCLEX TRM (BY AMERICAN EXCELSIOR COMPANY OR APPROVED EQUAL)
	DENOTES PROPOSED SAND CHIMNEY POND BOTTOM
	DENOTES EXISTING STORM PIPE

	<p> DENOTES EXISTING  SEWER CLEANOUT </p>
	<p> DENOTES EXISTING  SEWER SEWER MANHOLE </p>
	<p> DENOTES EXISTING  UTILITY POLE </p>
	<p> DENOTES EXISTING  TREE TO REMAIN </p>
	<p> DENOTES EXISTING FIRE  HYDRANT </p>
	<p> DENOTES EXISTING  SIGN </p>
	<p> DENOTES EXISTING  WATER SPIGOT </p>
	<p> DENOTES EXISTING GRAPE  MYRTLE PLANTED AS PART OF  DO# PSP170500082 </p>
	<p> DENOTES EXISTING  OVERHEAD UTILITIES </p>
	<p> DENOTES SOUTHERN RED CEDAR  CANOPY TREE (OR APPROVED  EQUAL) TO BE PLANTED TO  REPLACE EXISTING RED CEDAR  MYRTLES PLANTED AS PART OF  DO# PSP170500082  TYPICAL OF 5 </p>

X	_____	DENOTES EXISTING FENCE
		DENOTES PROPOSED STORM PIPE
XX	_____	DENOTES PROPOSED CHAIN LINK FENCE
		DENOTES RED MAPLE CANOPY TREE TO BE PLANTED (OR APPROVED EQUAL) TYPICAL OF 8
		DENOTES SOUTHERN MAGNOLIA CANOPY TREE TO BE PLANTED (OR APPROVED EQUAL) TYPICAL OF 8
		DENOTES LIVE OAK CANOPY TREE (OR APPROVED EQUAL) TO BE PLANTED TYPICAL OF 7
		DENOTES PROPOSED MITIGATION TREES

1. THE CONTRACTOR IS TO BE AWARE OF UNDERGROUND UTILITIES THROUGHOUT LANDSCAPED AREAS THAT MAY NOT BE ILLUSTRATED ON THIS PLAN. CONTRACTOR SHALL VERIFY LOCATION AND PROTECT ALL UTILITIES DURING EXCAVATION AND/OR FINISH GRADE ACTIVITIES.
2. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE TO EXISTING UTILITIES, WALKWAYS, PAVING OR OTHER ELEMENTS IN PLACE AT THE COMMENCEMENT OF HIS WORK, AT NO ADDITIONAL COST TO THE OWNER.
3. ANY ADJUSTMENT TO THIS PLAN DUE TO EXISTING CONDITIONS NOT REFLECTED ON THIS PLAN WILL BE RESOLVED AT THE TIME OF INSTALLATION.
4. FINISH GRADES FOR ALL PLANTING, SOD AND SEED AREAS SHALL BE ESTABLISHED AND APPROVED BY THE OWNER/DEVELOPER PRIOR TO PLANTING, SODDING OR SEEDING.
5. ALL TRASH AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE PRIOR TO ESTABLISHMENT OF FINISH GRADES.
6. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTED HORTICULTURE PRACTICES. THIS SHALL INCLUDE PROPER PLANTING SOIL MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING, STAKING OR GUYING, FERTILIZATION AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE BY OWNER/DEVELOPER.
7. ALL PLANT MATERIALS USED SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS", CURRENT EDITION, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY, FLORIDA. IN ADDITION, ALL PLANT MATERIALS SHALL BE FREE FROM INSECT AND DISEASE.
8. PLANT CONTAINERS SHALL BE REMOVED PRIOR TO PLANTING. IF PLANTS ARE NOT CONTAINER GROWN, REMOVE A MINIMUM OF THE TOP 1/3 OF BURLAP, FABRIC OR WIRE MESH.
9. ROOT BALLS SHALL BE FLUSH WITH FINISHED GRADE.
10. BACKFILL SHALL BE LOOSEENED EXISTING SOIL, REMOVE ROCKS, STICKS OR OTHER DELETERIOUS MATERIAL GREATER THAN 1" IN ANY DIRECTION PRIOR TO BACKFILLING. WATER AND TAMM TO REMOVE AIR POCKETS. IF EXISTING SOILS CONTAIN EXCESSIVE ORGANIC MATERIAL, EXTRACT ORGANIC MATERIAL NOT CONDUCIVE TO PROPER PLANT GROWTH CONTACT LANDSCAPE ARCHITECT PRIOR TO PLANTING.
11. SOIL RINGS SHALL BE CONSTRUCTED OF EXISTING SOIL AT THE OUTER EDGE OF THE TREE PLANTING PIT WITH A HEIGHT AND WIDTH OF 4".
12. STRAPPING SHALL BE MINIMUM 1" WIDE NYLON OR POLYPROPYLENE. GUYING MATERIAL IN CONTACT WITH TREE SHALL BE SOFT, PLIABLE, FLEXIBLE RUBBER.
13. SABAL PALMS (IF PLANTED) MAY BE HURRICANE CUT, ALL OTHERS MUST HAVE FRONDS TIED WITH BIODEGRADABLE STRAP. TRUNKS SHALL HAVE NO SCARS OR SANDING.
14. NO PROPOSED IRRIGATION AT THIS TIME. OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AND HEALTHY GROWTH OF ALL PLANTED MATERIAL.
15. ALL GREEN AREAS FOUND WITHIN THE PROJECT BOUNDARIES ARE TO BE FULLY STABILIZED PRIOR TO REQUESTING FINAL INSPECTION. AREAS NOT ILLUSTRATED AS SODDED OR CONTAINING CYPRESS MULCH MUST BE SEEDDED.



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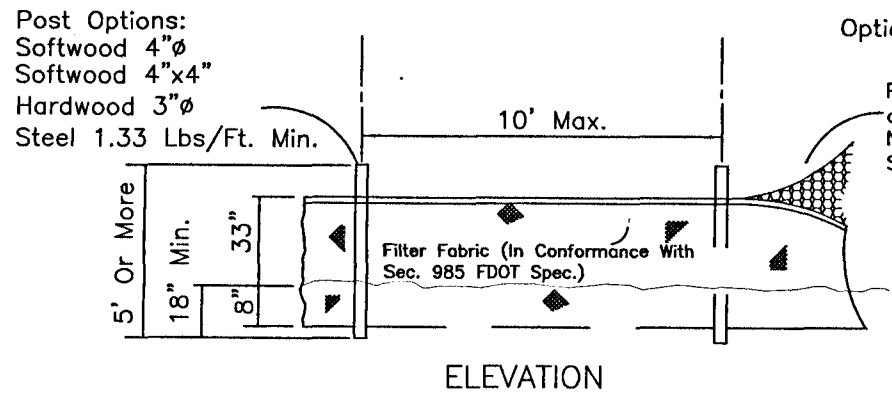
**SITE DEVELOPMENT  
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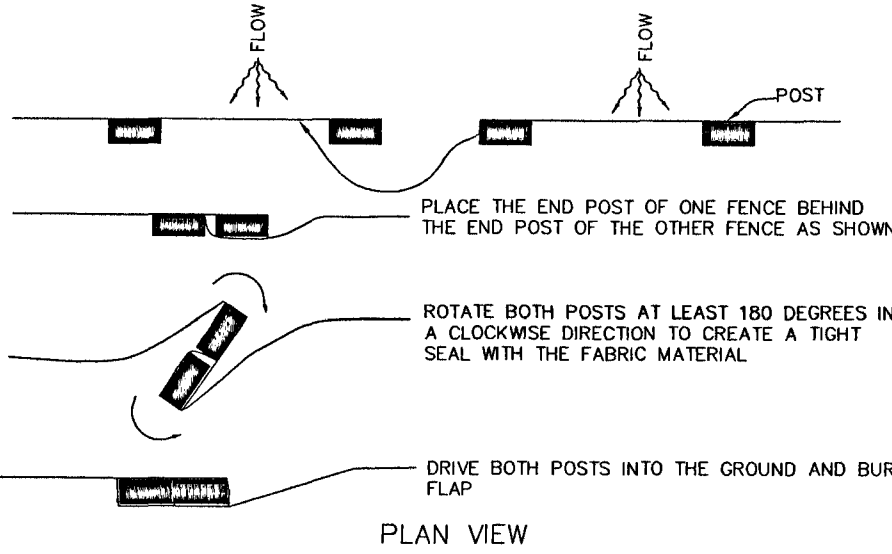
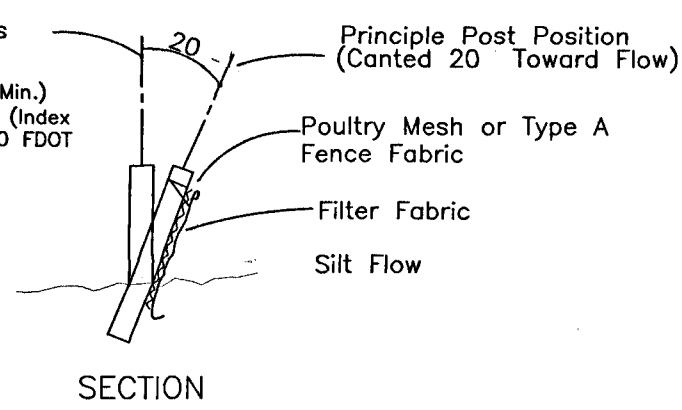
PROJECT NO: 20-085

SHEET: C9



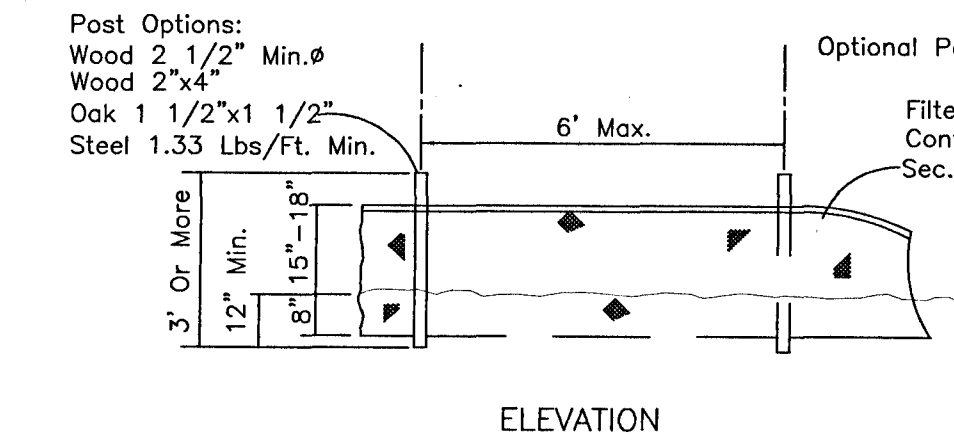


TYPE IV SILT FENCE  
NTS

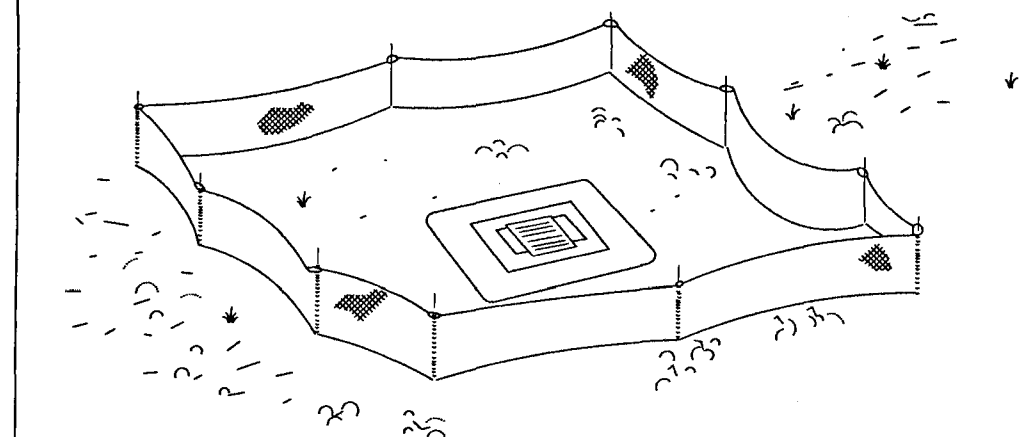
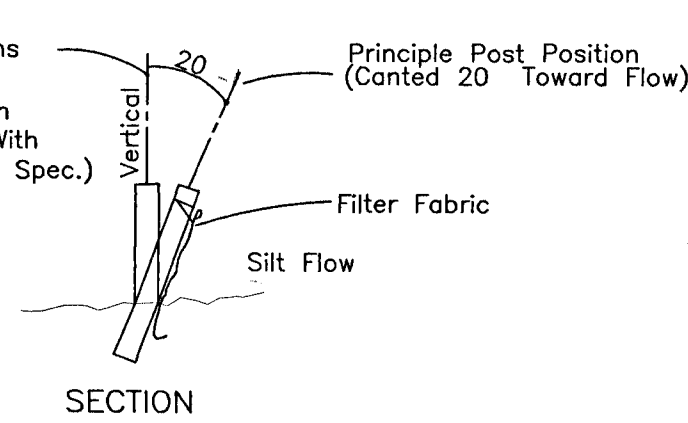


JOINING TWO SILT FENCES  
NTS

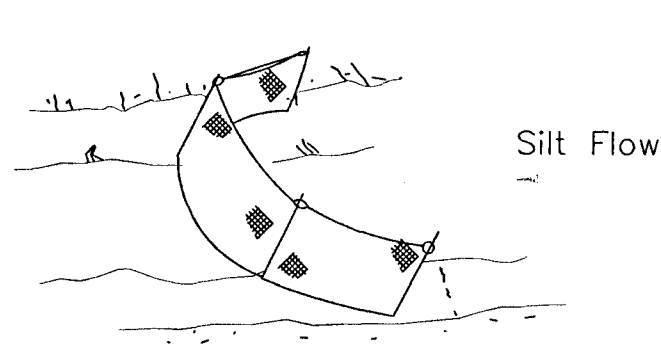
- NOTES FOR SILT FENCES:
1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS, WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1 (FOUND BELOW)
  2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25'. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR ADJACENT PROPERTY.
  3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATER COURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
  4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.



TYPE III SILT FENCE  
NTS



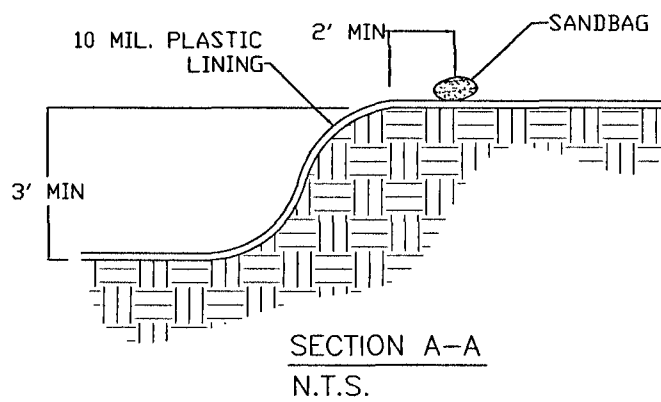
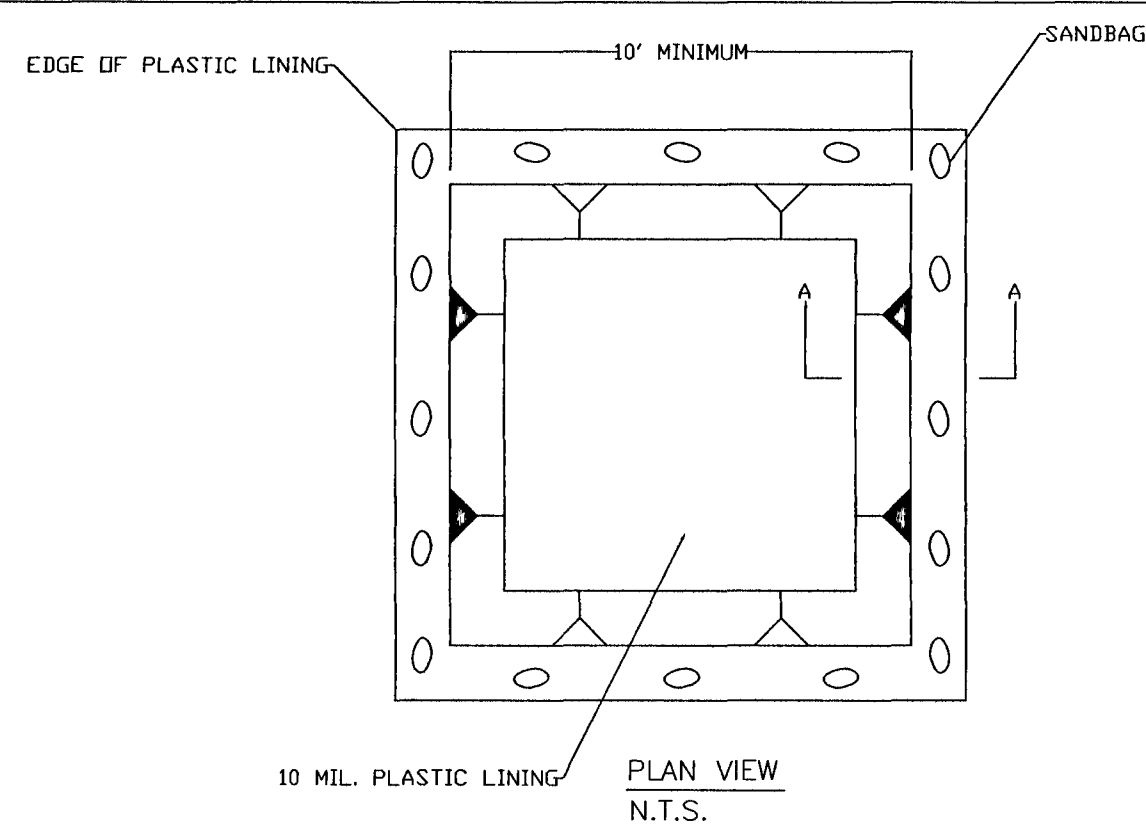
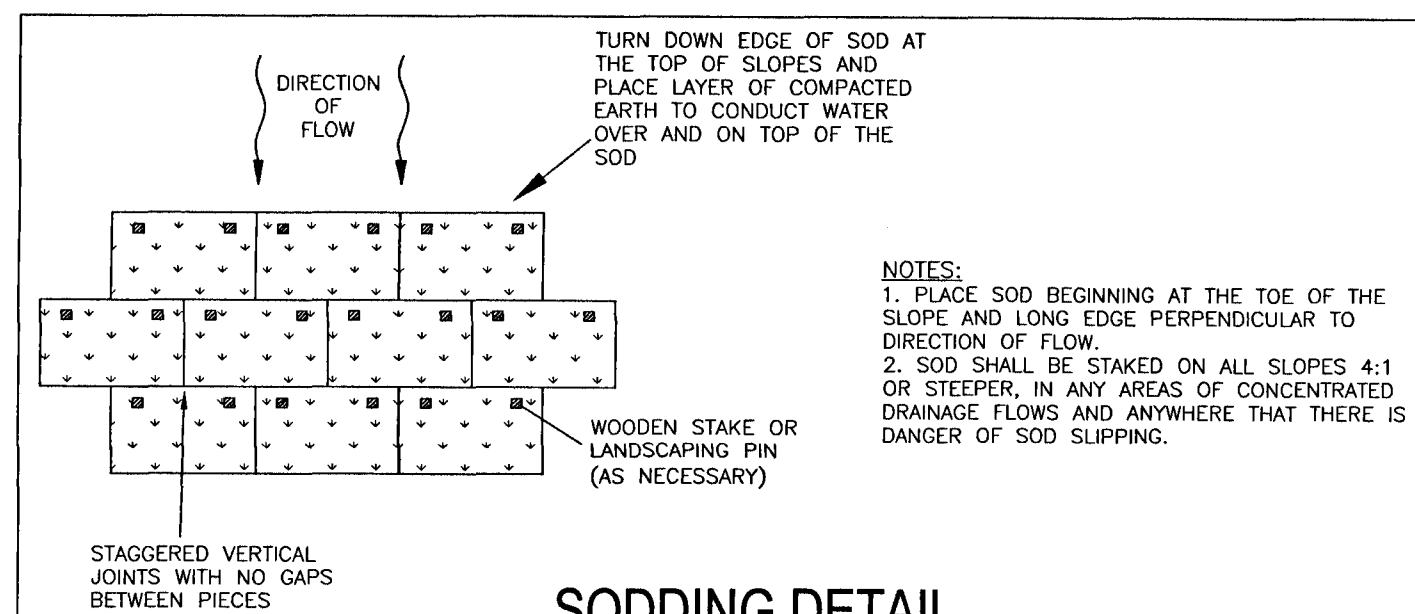
Type III Silt Fence Protection Around Ditch Bottom Inlets.



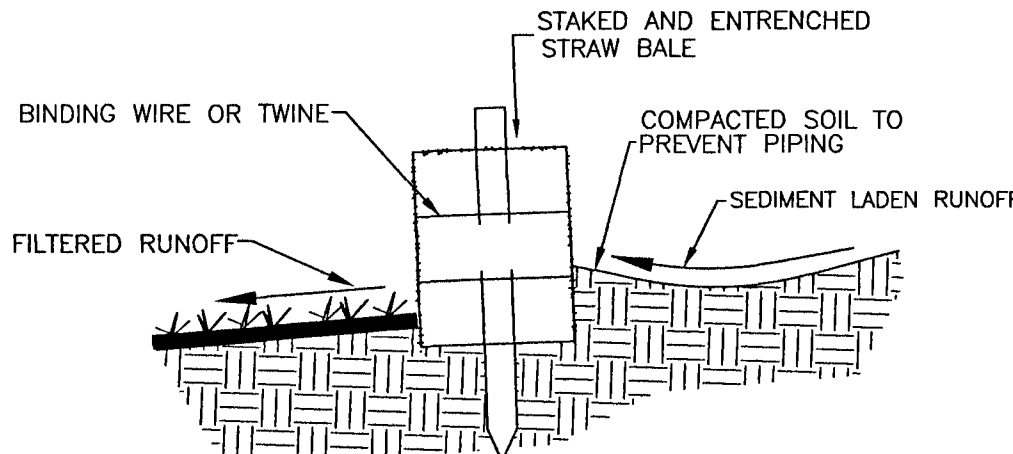
Type III Silt Fence

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS  
NTS

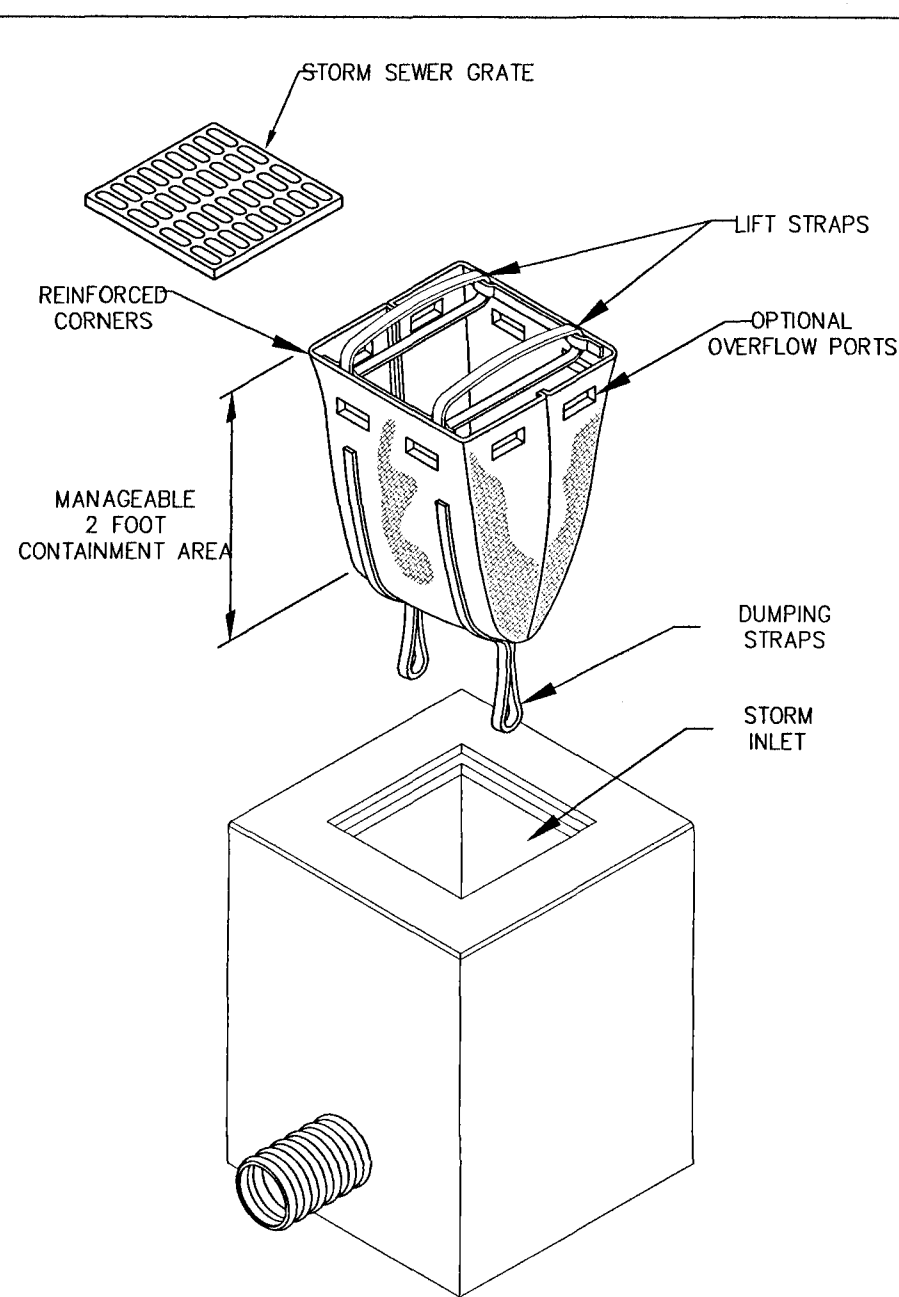


CONCRETE WASHOUT DETAIL  
NTS



NOTE: INSTALL SILT FENCE AS DETAILED. INSTALL HAYBALES ALONG UPSTREAM SIDE OF SILT FENCE WITH BINDING STRINGS OR WIRE RUNNING PARALLEL TO THE GROUND.

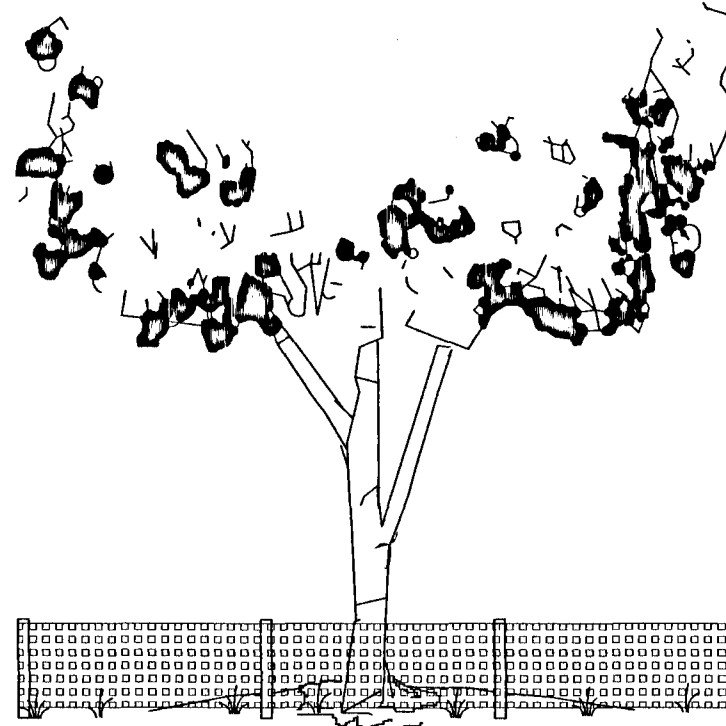
HAY BALE INSTALLATION DETAIL  
NTS



DETAIL OF INLET  
FILTER SACK  
NTS

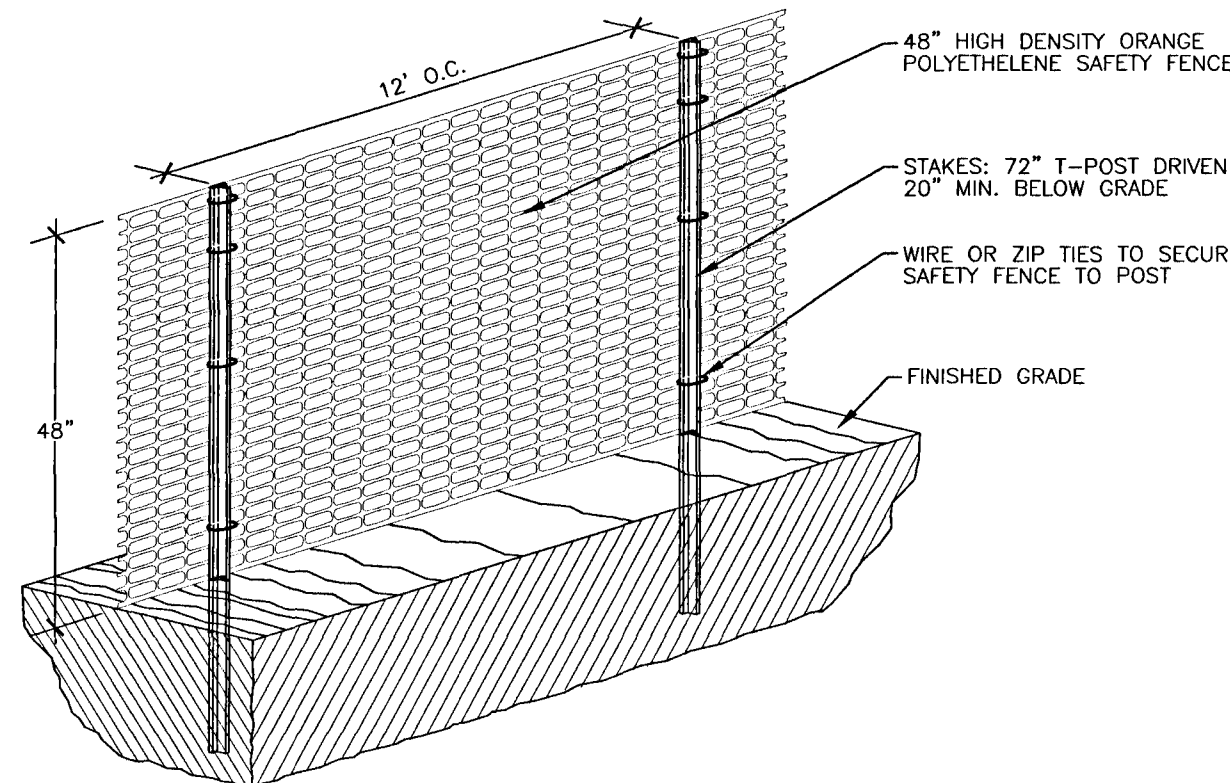
TREE PROTECTION BARRICADES SHOULD BE PLACED AT THE PERIMETER OF EACH PROTECTED TREE'S CRITICAL ROOT ZONE. THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED BY A CIRCLE, CENTERED ON THE TREE TRUNK AND HAVING A RADIUS OF ONE FOOT FOR EACH ONE INCH OF TRUNK DIAMETER (DBH)

NO UN-PERMITTED GRADING OR CLEARING BY HEAVY EQUIPMENT SHOULD HAPPEN UNDER THE CRITICAL ROOT ZONE OF PROTECTED TREES TO REMAIN ON THE SITE. STORAGE OF HEAVY EQUIPMENT SHALL NOT OCCUR UNDER THE CRITICAL ROOT ZONE OF PROTECTED TREES ON SITE.



PROPERLY CONSTRUCTED BARRICADE PROTECTS THE TOTAL AREA WITHIN THE CRITICAL ROOT ZONE. CRITICAL ROOT ZONE OF A TREE IS REPRESENTED BY A CIRCLE, CENTERED ON THE TREE TRUNK AND HAVING A RADIUS OF ONE FOOT FOR EACH ONE INCH OF TRUNK DIAMETER (DBH)

TREE PROTECTION BARRIER

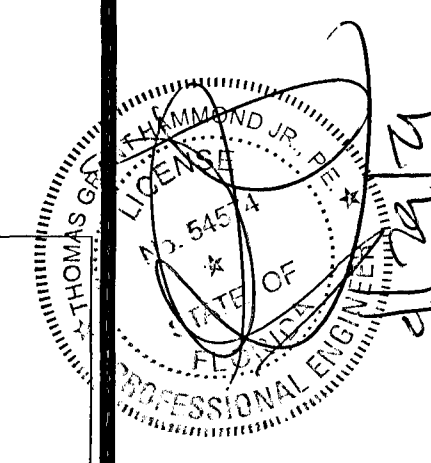


SENSITIVE AREATREE PROTECTION BARRIER

- NOTES:
1. ALL SENSITIVE AREAS SHALL BE PROTECTED INCLUDING DEEP EXCAVATIONS AND AS INDICATED ON PLANS.
  2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
  3. TREE PROTECTION BARRIER SHOULD BE PLACED, AND MAINTAINED IN GOOD WORKING ORDER, AROUND THE PERIMETER OF EACH PROTECTED TREE'S CRITICAL ROOT ZONE (CRZ) OF ALL PROTECTED TREES MARKED FOR PRESERVATION PRIOR TO ANY LAND DISTURBANCE CONSISTENT WITH THE DEVELOPMENT PERMIT.
  4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
  5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.
  6. NO UN-PERMITTED GRADING OR CLEARING BY HEAVY EQUIPMENT SHOULD OCCUR UNDER THE CRITICAL ROOT ZONE OF PROTECTED TREES TO REMAIN ON THE SITE. STORAGE OF HEAVY EQUIPMENT SHALL NOT OCCUR UNDER THE CRITICAL ROOT ZONE OF PROTECTED TREES ON SITE.
  7. ALL DAMAGED ROOTS ARE TO BE EXPOSED TO SOUND TISSUE AND SEVERED CLEANLY (NOT TORN). ROOTS SHALL BE PRUNED CLEANLY TO A DEPTH OF 18 INCHES BELOW THE EXISTING GRADE OR TO THE DEPTH OF DISTURBANCE IF LESS THAN 18 INCHES FROM EXISTING GRADE.

REVISIONS		NO.	DATE	DESCRIPTION
1	04/20/2021	Δ	REVISED PLANS AS PER ESCAMBIA COUNTY DRC REVIEW COMMENTS	
2	04/21/2021	Δ	REVISED PLANS AS PER ECUA PER REVIEW COMMENTS	

HAMMOND ENGINEERING, INC.  
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TOM@SELANDEDDESIGN.COM



SITE DEVELOPMENT  
PLANS FOR  
BEULAH ACADEMY OF  
SCIENCE GYMNASIUM  
EROSION CONTROL  
DETAILS  
ESCAMBIA COUNTY FLORIDA

DRAWN BY: CJB	DESIGNED BY: TGH
CHECKED BY: TGH	DATE: 02/25/21
SCALE: AS SHOWN	NOT RELEASED FOR CONSTRUCTION
BY:	DATE:

PROJECT NO: 20-085

SHEET: C10



EXPANSION JOINT REQUIRED  
F. SIDEWALK ABUTS  
CONCRETE PAVEMENT

PARKING AREA

4" THICK CONCRETE  
3000 PSI SIDEWALK

6x6-W2.9xW2.9  
WWF

45°

#4 BAR CONT.

6"

EXPANSION JOINT REQUIRED  
F. SIDEWALK ABUTS  
CONCRETE PAVEMENT

PARKING AREA

1" RADIUS

4" THICK CONCRETE  
3000 PSI SIDEWALK

6x6-W2.9xW2.9  
WWF

45°

#4 BAR CONT.

6"x6" 6/6 WWF

AS NOTED

4" THICK CONCRETE 3000 PSI SIDEWALK

4" COMPACTED SAND BASE

6x6-W2.9xW2.9 WWT\*\*

1/4" R TYP

1/2" EXPANSION JOINT MATERIAL

1/4"

EXPANSION JOINT @ 40'-0" O.C. MAX PROVIDE AT ALL SIDEWALK INTERSECTIONS

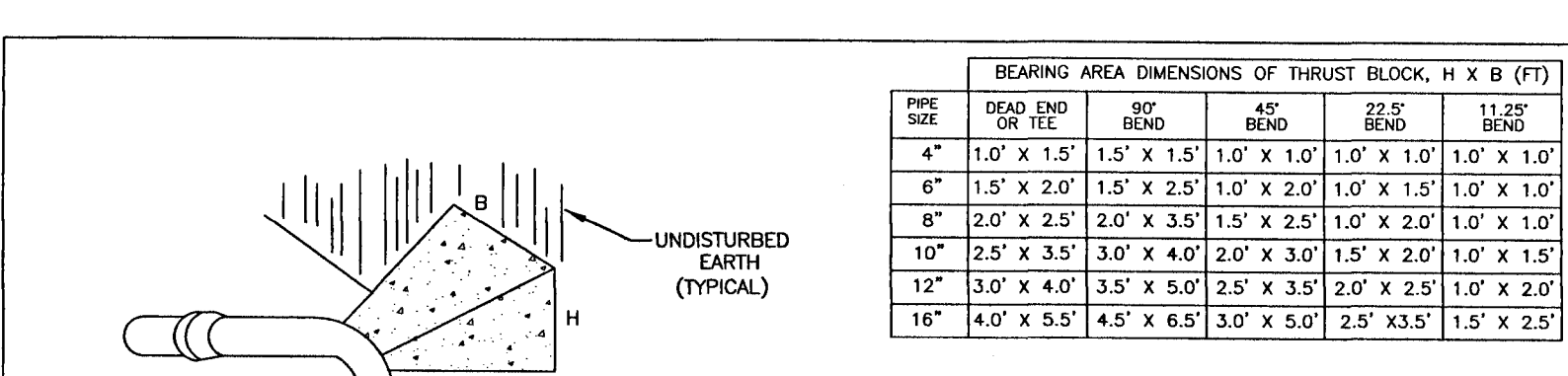
CONTROL JOINT @ 5'-0" O.C. MAX

SIDEWALK SECTION

EXPANSION JOINTS

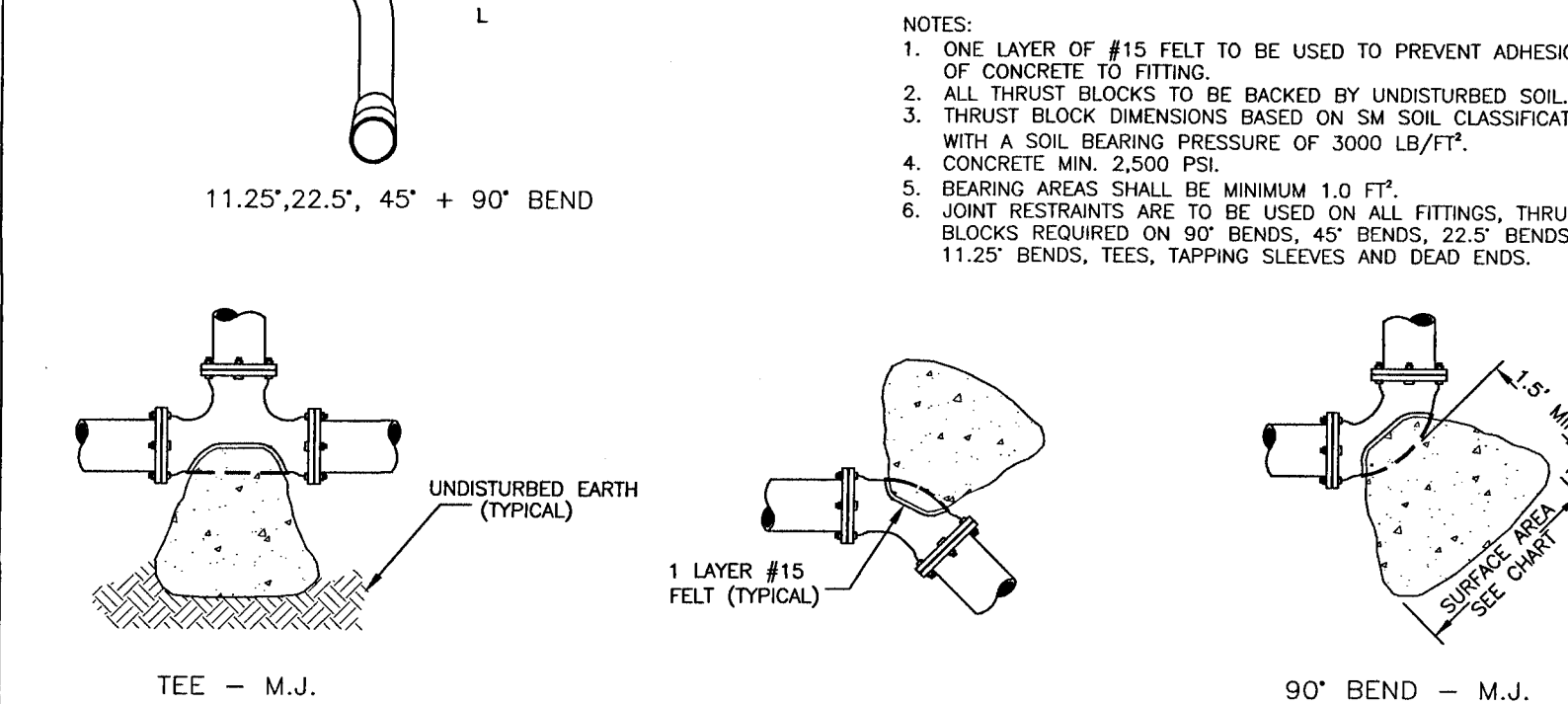
CONTROL JOINTS

NTS  
\*\*FIBER REINFORCED CONCRETE CAN BE USED IN LIEU OF  
WWF IF DESIRED

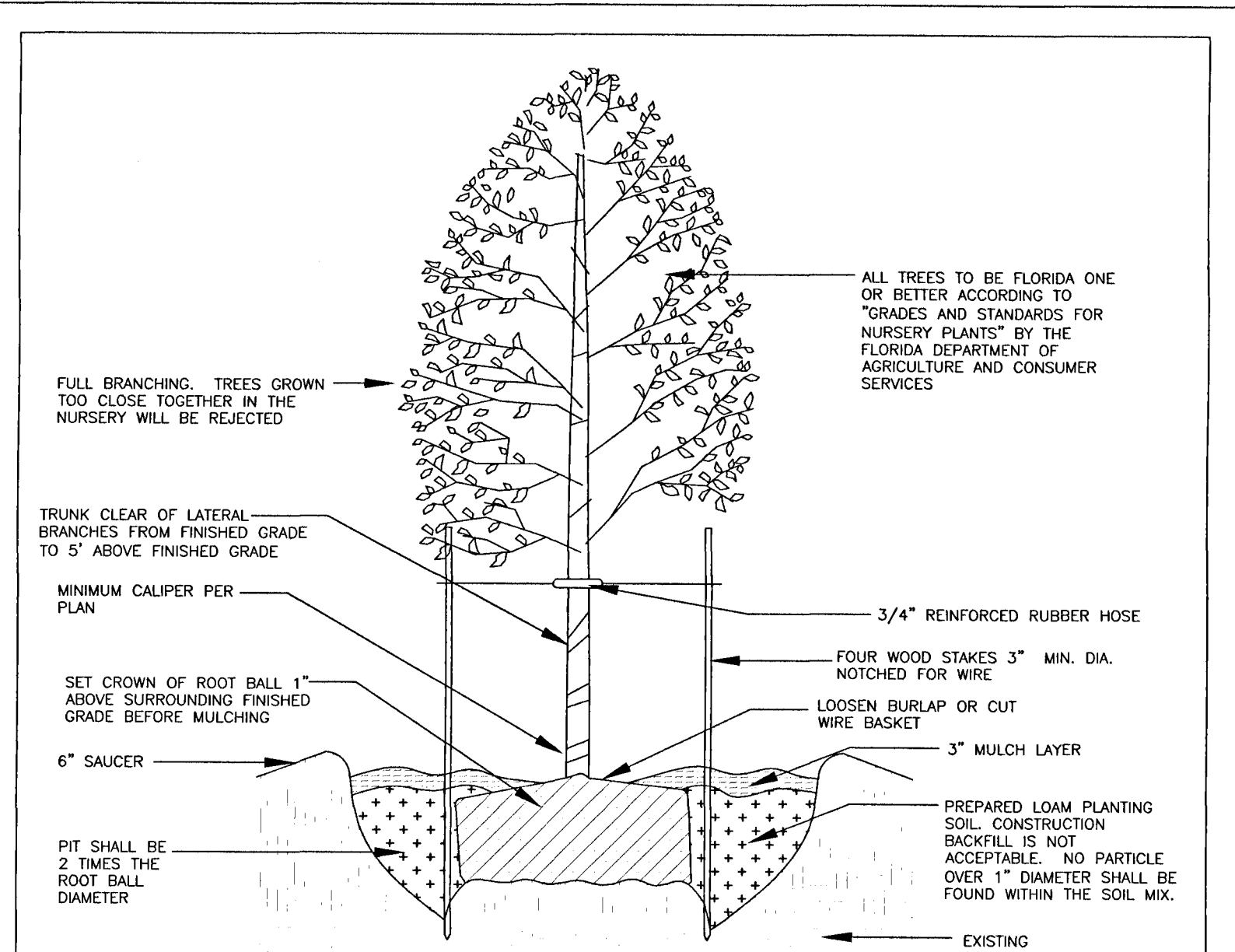


NOTES:

1. ONE LAYER OF #15 FELT TO BE USED TO PREVENT ADHESION OF CONCRETE TO FITTING.
2. ALL THRUST BLOCKS TO BE BACKED BY UNDISTURBED SOIL.
3. THRUST BLOCK DIMENSIONS BASED ON SM SOIL CLASSIFICATION WITH A SOIL BEARING PRESSURE OF 3000 LB/FT<sup>2</sup>.
4. CONCRETE MIN. 2,500 PSI.
5. BEARING AREAS SHALL BE MINIMUM 1.0 FT<sup>2</sup>.
6. JOINT RESTRAINTS ARE TO BE USED ON ALL FITTINGS, THRUST BLOCKS REQUIRED ON 90° BENDS, 45° BENDS, 22.5° BENDS, 11.25° BENDS, TEES, TAPPING SLEEVES AND DEAD ENDS.

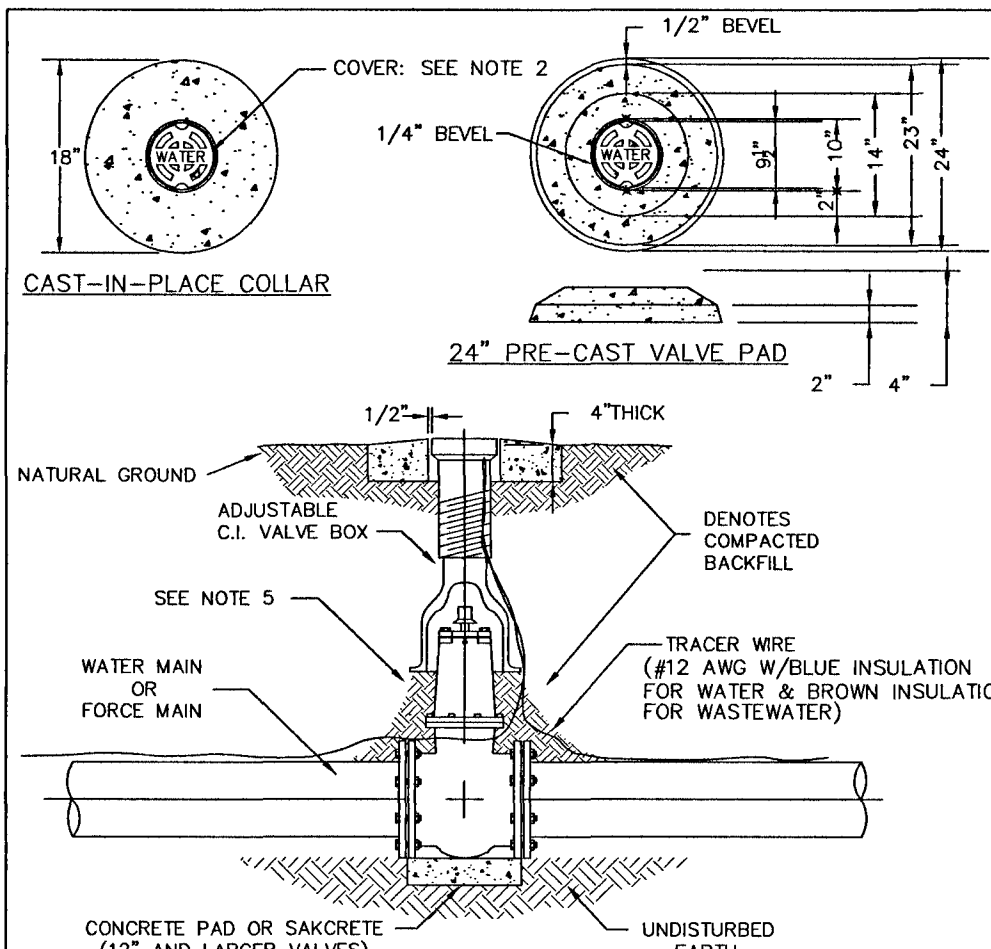


## NTS



NTS

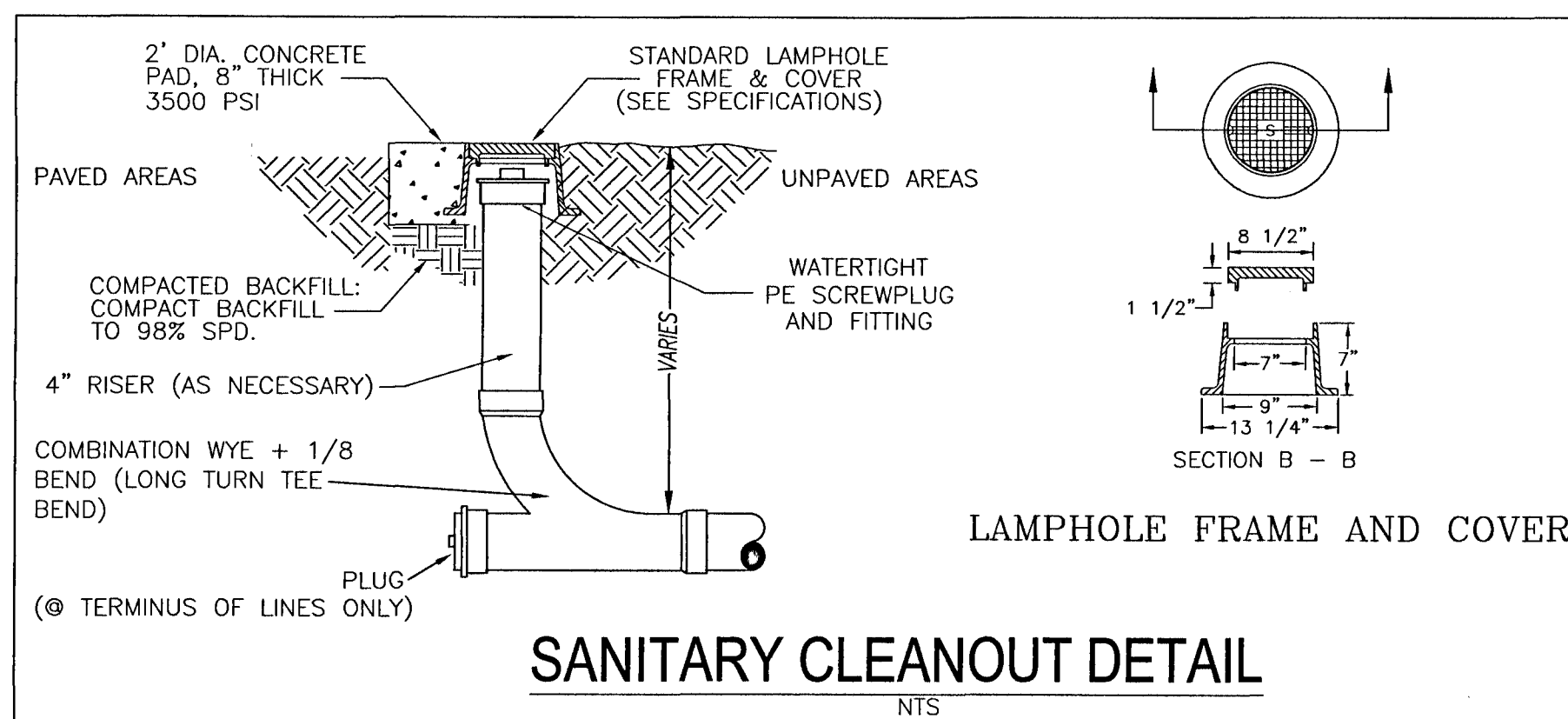
Shrubs (mature height 36" min.)	Understory Trees (mature height 15-29 feet)	Canopy Trees (mature height over 30 feet)
Abelia	Flowering Dogwood	Red Maple
Abelia <i>grandiflora</i>	<i>Cornus florida</i>	<i>Acer rubrum</i>
Aucuba japonica	Loblolly Bay	Silver Maple
Aucuba	<i>Cordonia lasianthus</i>	<i>Acer saccharum</i>
Barberry	American Holly	American Hornbeam
Berberis sp.	<i>Nex opaca</i>	<i>Carpinus caroliniana</i>
Japanese Boxwood	Dahoon Holly	Southern Red Cedar
<i>Buxus microphylla</i>	<i>Nex cassinie</i>	<i>Juniperus sicticola</i>
Beauzy Berry	Crope Myrtle	Leyland Cypress
<i>Callicarpa Americana</i>	<i>Lagerstroemia indica</i>	<i>Cupressocyparis leylandii</i>
Japanese Plum-Yew	Glossy Privet	River Birch
<i>Cephalanthus harringtonia</i>	<i>Ligustrum lucidum</i>	<i>Betula nigra</i>
Silverhorn Dogwood	Saucer Magnolia	Pignut Hickory
<i>Eleagnus pungens</i>	<i>Magnolia x soulangeana</i>	<i>Carya glabra</i>
Fatsia	Sweetgum	Green Ash
<i>Fatsia japonica</i>	<i>Magnolia virginiana</i>	<i>Fraxinus pennsylvanica</i>
Gardenia	Southern Crab Apple	Maidenhair Tree
Gardenia <i>jasminoides</i>	<i>Malus angustifolia</i>	<i>Ginkgo biloba (male)</i>
Burford Holly	Wax Myrtle	Sweetgum
<i>Nex cornuta</i>	<i>Myrica cerifera</i>	<i>Liquidambar styraciflua</i>
Japanese Privet	Bradford Pear	Tulip Poplar
<i>Ligustrum japonicum</i>	<i>Pyrus calleryana</i>	<i>Liriodendron tulipifera</i>
Southern Wax Myrtle	Yaupon Holly	Southern Magnolia
<i>Myrica cerifera</i>	<i>Nex vomitoria</i>	<i>Magnolia grandiflora</i>
Firethorn	Liquat	Tupelo/Sour Gum
<i>Pyracantha coccin</i>	<i>Eriobotrya japonica</i>	<i>Nyssa sylvatica</i>
Dwarf Japanese Holly	Eastern Redbud	Slash Pine
<i>Nex crenata</i>	<i>Cercis canadensis</i>	<i>Pinus elliptica</i>
Chinese Holly	Fringe Tree	Longleaf Pine
<i>Nex Cornuta</i>	<i>Chionanthus virginicus</i>	<i>Pinus palustris</i>
Dwarf Yaupon Holly	Hawthorn	Sycamore
<i>Nex vomitoria 'Nana'</i>	<i>Crataegus spp.</i>	<i>Natlanus occidentalis</i>
Chinese Juniper	Halvetail	White Oak
<i>Juniperus chinensis</i>	<i>Salebra caroliniana</i>	<i>Quercus alba</i>



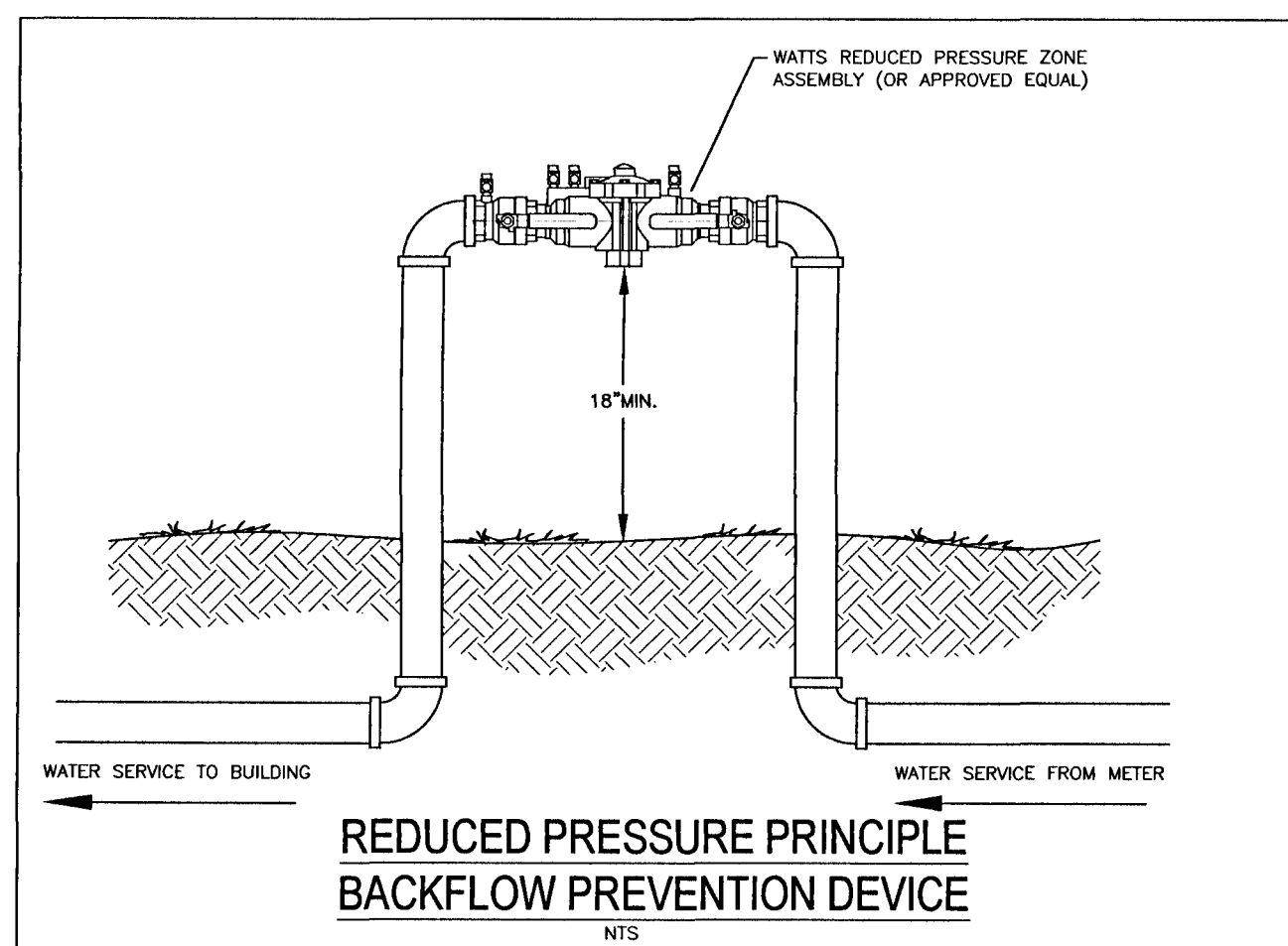
## NTS

NOTES:

1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "WATER".  
OR "SEWER" AS APPLICABLE.
3. VALVE BOX TOP SHALL BE FLUSH WITH  
FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE RESILIENT SEAT  
WITH MECHANICAL JOINT ENDS OR  
APPROVED EQUIVALENT.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE  
FIRM AND WELL TAMPED TO ENSURE AGAINST  
VALVE BOX SETTLING.



## LAMPHOLE FRAME AND COVER



WHERE ABOVE GROUND WATER-FILLED SUPPLY PIPES, RESERS, SYSTEM RESERS, OR FEED MAINS PASS THROUGH OPEN AREAS, COLD ROOMS, PASSAGeways, OR OTHER AREAS EXPOSED TO FREEZING TEMPERATURES, THE PIPE SHALL BE PROTECTED AGAINST FREEZING BY THE FOLLOWING:

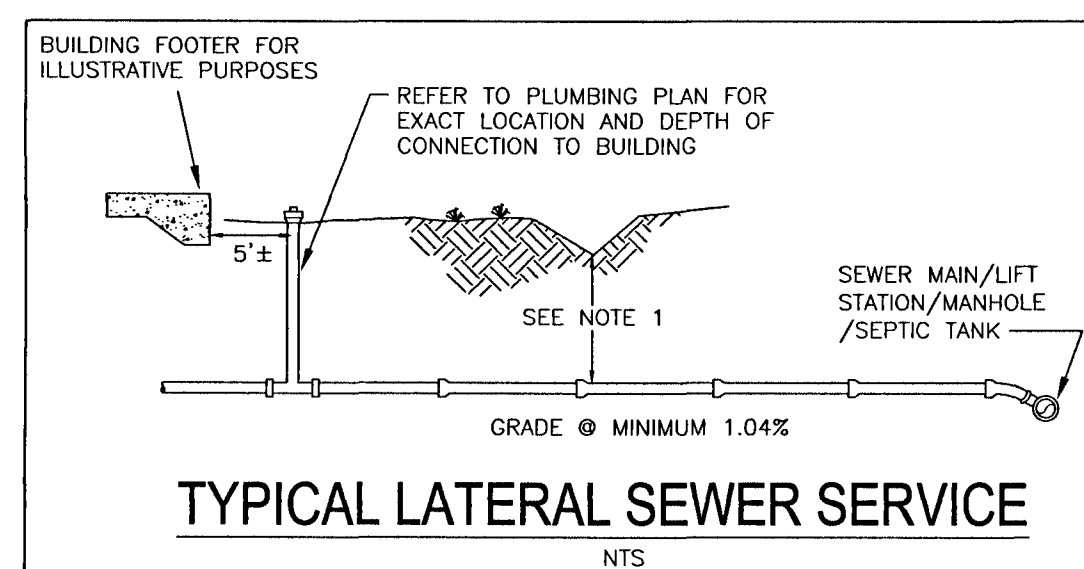
- A. INSULATING COVERINGS
- B. PROTECTIVE CASINGS
- C. OTHER RELIABLE MEANS CAPABLE OF MAINTAINING A MINIMUM TEMPERATURE BETWEEN 40°F AND 120°F (4°C AND 48.3°C)

2. BACKFLOW PREVENTION DEVICE TO BE INSTALLED AS PER 2014 FLORIDA BUILDING CODE.

3. LOCATE BACKFLOW PREVENTER ON THE DEVELOPER SIDE OF THE METER BOX.

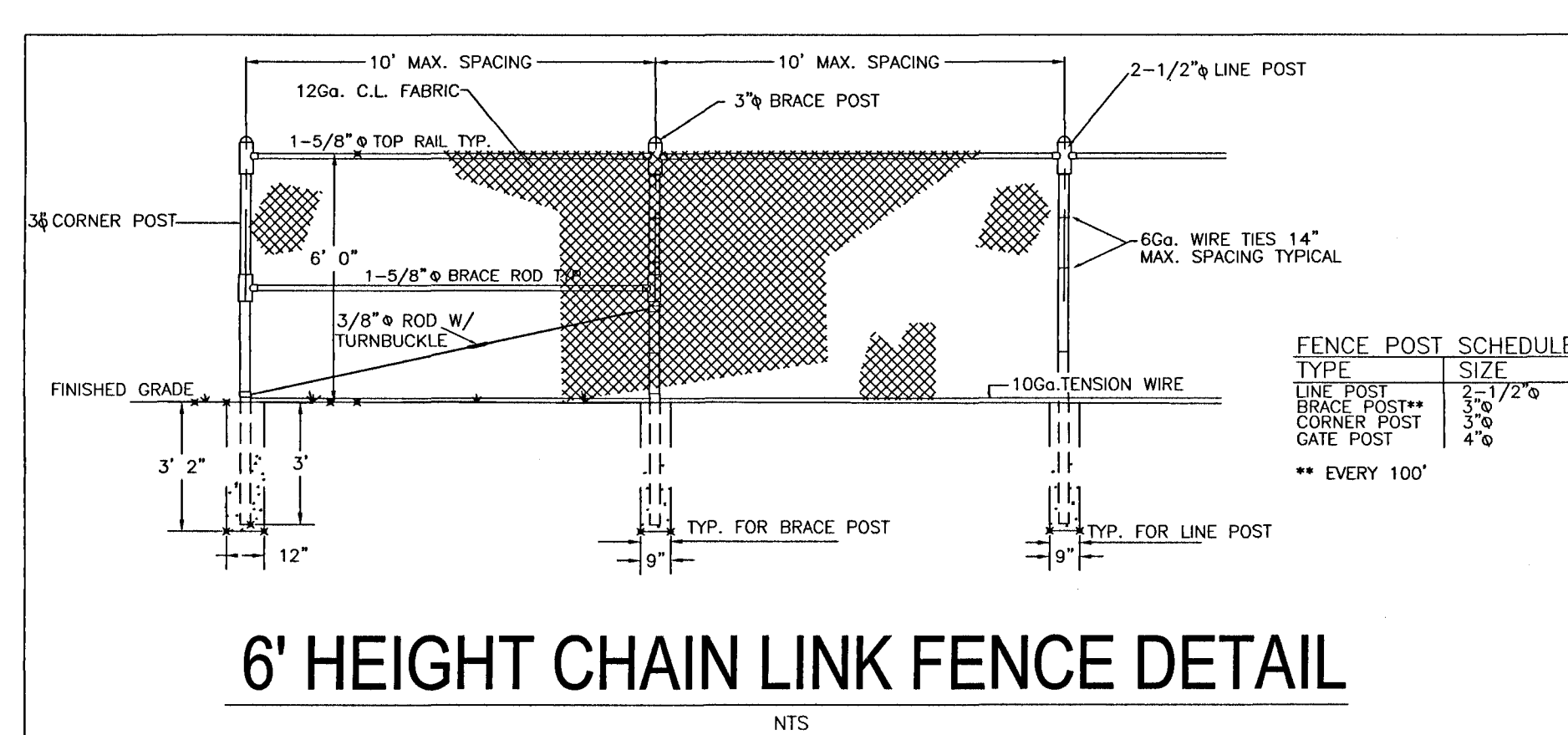
4. BACKFLOW PREVENTER TO BE TESTED AFTER INSTALLATION AND PRIOR TO SERVICE BEING TURNED ON.

5. TESTS ELONGED BUT SHALL BE INSTALLED AS NECESSARY.

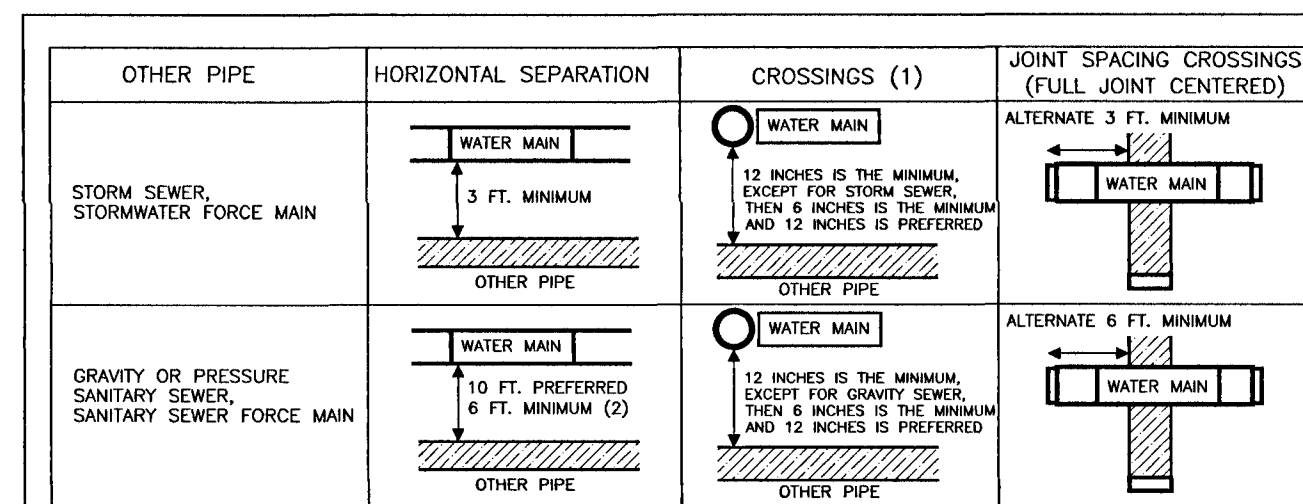


NOTES:

1. MAINTAIN 18" MINIMUM COVER OR USE 6 L.F. CONCRETE ENCASEMENT
2. ALL LATERALS TO BE 4" Ø PVC 3034 DR SEWER PIPE UNLESS FLOW DICTATES A LARGER DIAMETER.
3. A CLEAN OUT SHALL BE PROVIDED WITHIN 5 FT OF BUILDING WHERE THE SEWER LATERAL EXISTS



## 6' HEIGHT CHAIN LINK FENCE DETAIL

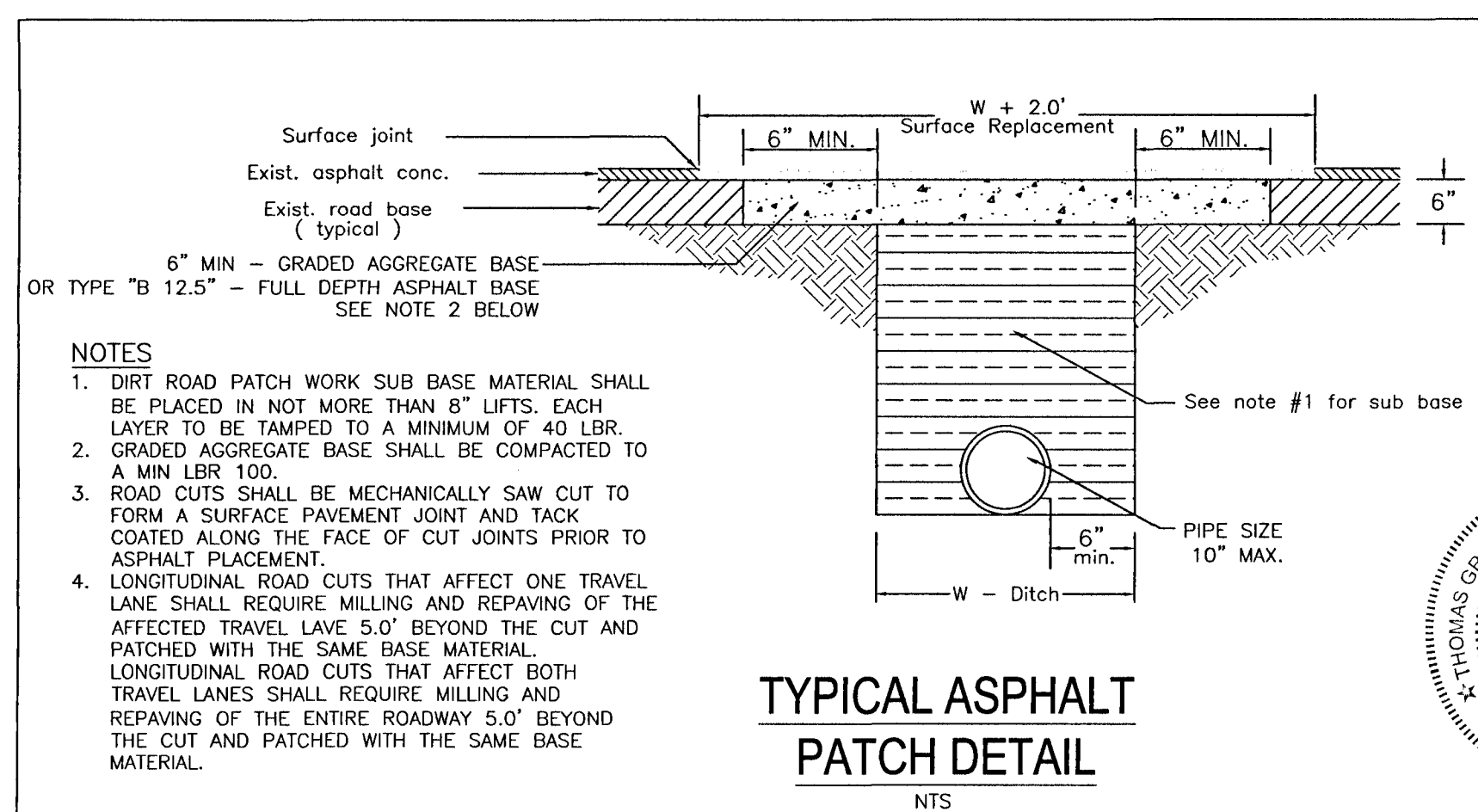


(1) WATER MAIN SHOULD ACROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.  
(2) 3 FT. GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.

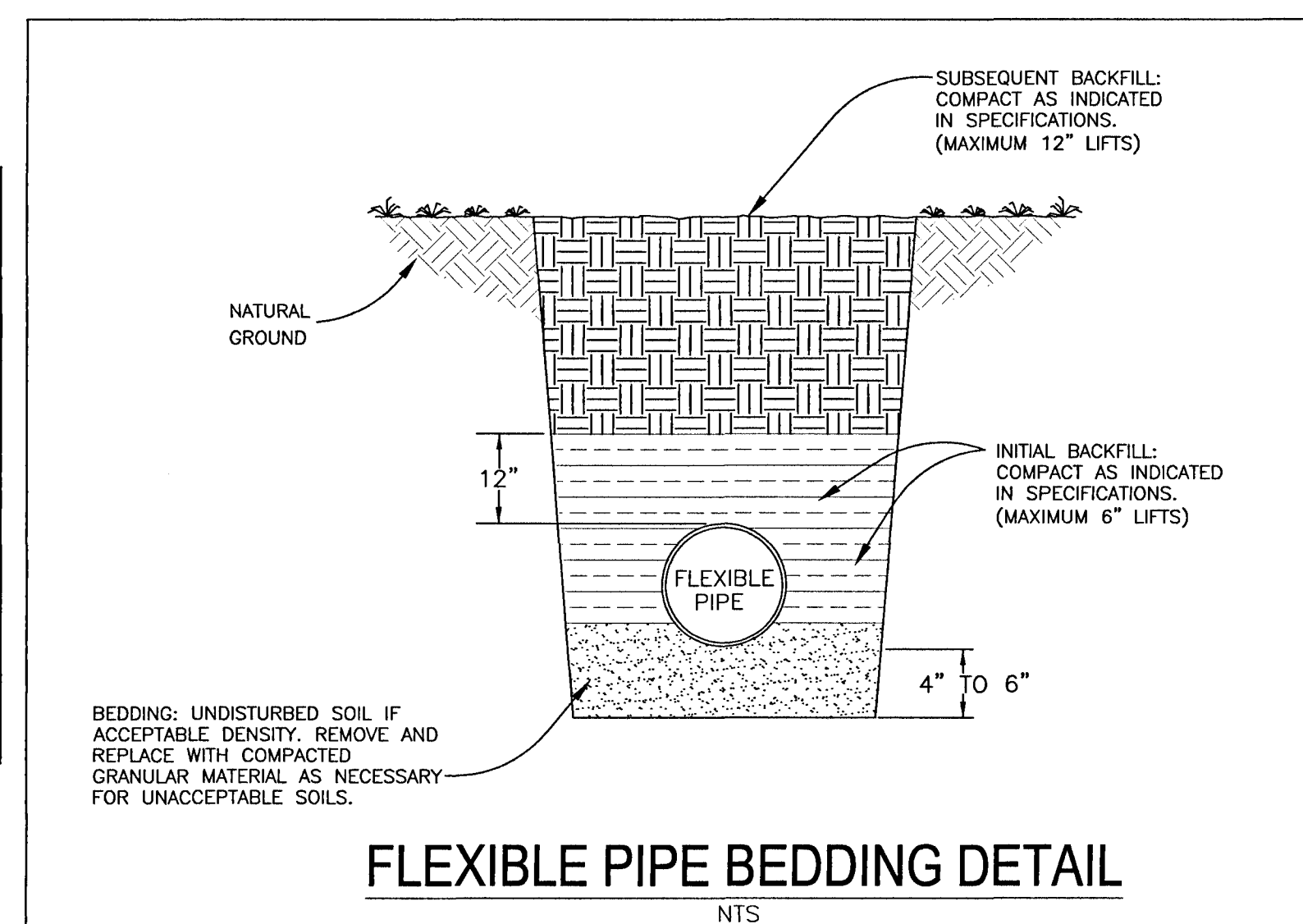
NOTES:

A. INFORMATION PROVIDED FROM FDEP RULE 62-555. IF OTHER FDEP RULES CONFLICT, THEN USE THE MOST STRINGENT RULE.

B. IF THERE ARE CONFLICTS IN THE SEPARATION REQUIREMENTS BETWEEN COLLECTION SYSTEMS AND DRINKING WATER FACILITIES ESTABLISHED IN FOOTNOTES (1) AND (2) ABOVE THOSE ESTABLISHED IN CHAPTER 62-532 OF 62-555, F.A.C., THEN THE REQUIREMENTS IN CHAPTER 62-532 OR 62-555, F.A.C., SHALL APPLY



## TYPICAL ASPHALT PATCH DETAIL



## FLEXIBLE PIPE BEDDING DETAIL

NTS

NO.	DATE	REVISIONS
1	04/20/2021	REVISED PLANS AS PER ESCAMBA COUNTY DRC REVIEW COMMENTS
2	04/21/2021	REVISED PLANS AS PER ECQA PER REVIEW COMMENTS
3		
4		
5		

**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH "S" STREET  
PENSACOLA, FLORIDA 32505  
850 434-2603  
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TOM@SELANDDESIGN.COM

**TOM@SELANDDESIGN.COM**

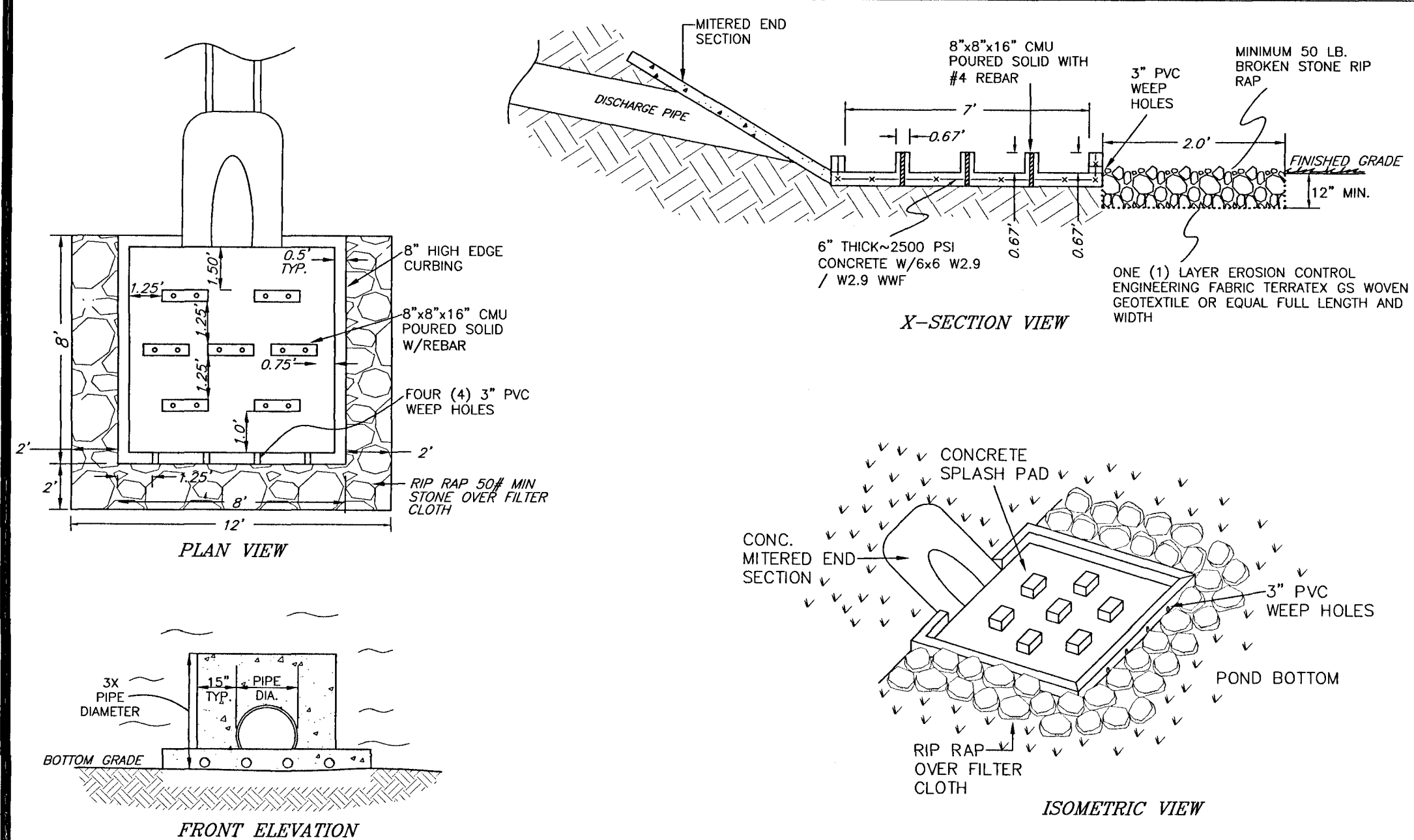
**SITE DEVELOPMENT  
PLANS FOR  
BEULAH ACADEMY OF  
SCIENCE GYMNASIUM  
CONSTRUCTION DETAILS**

DRAWN BY: CJG  
DESIGNED BY: RLS  
CHECKED BY: TGH  
DATE: 02/25/21  
SCALE: AS SHOWN  
NOT RELEASED FOR  
CONSTRUCTION  
BY: DATE:

PROJECT NO: 20-085

SHEET: C11





### NYLOPLAST SPECIFICATIONS

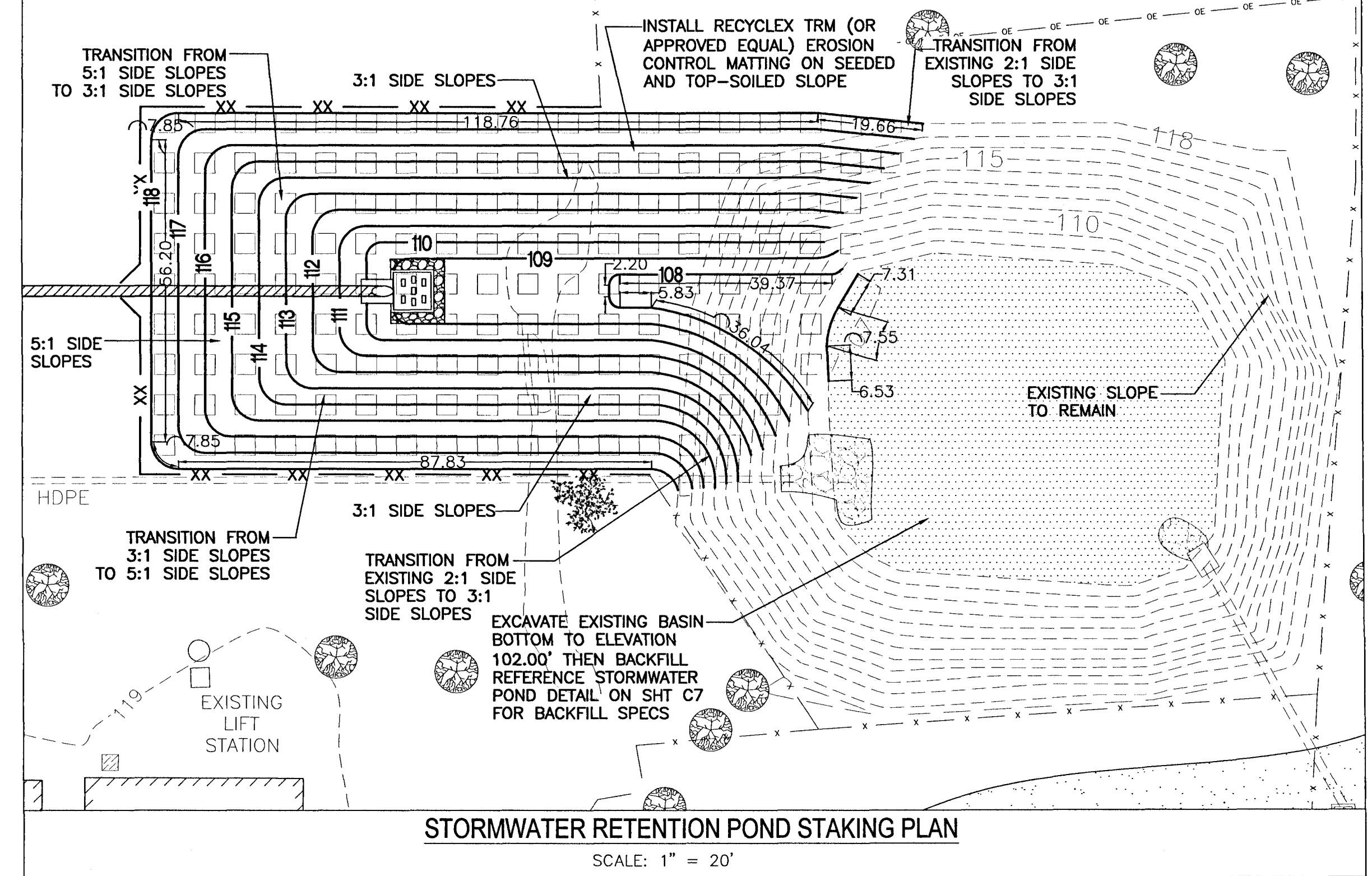
Engineered Surface Drainage Products

**GENERAL**  
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

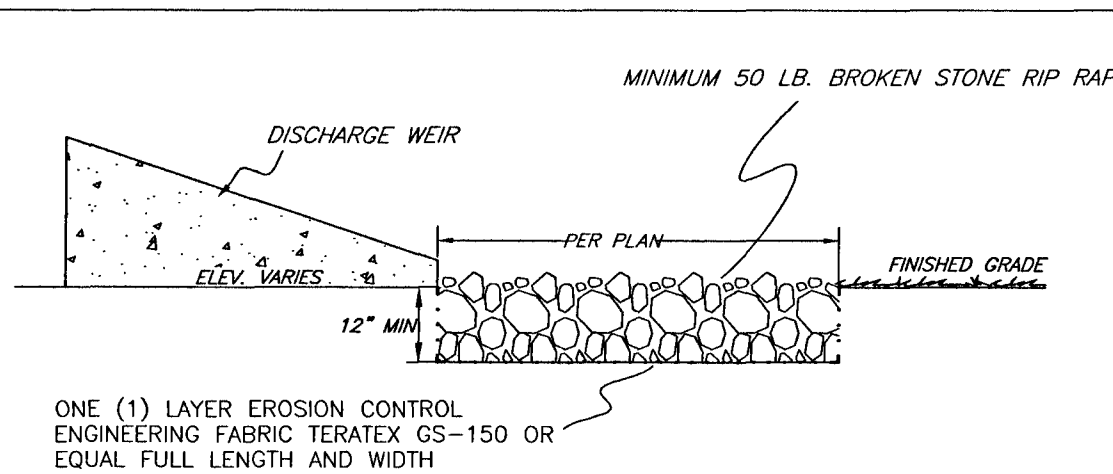
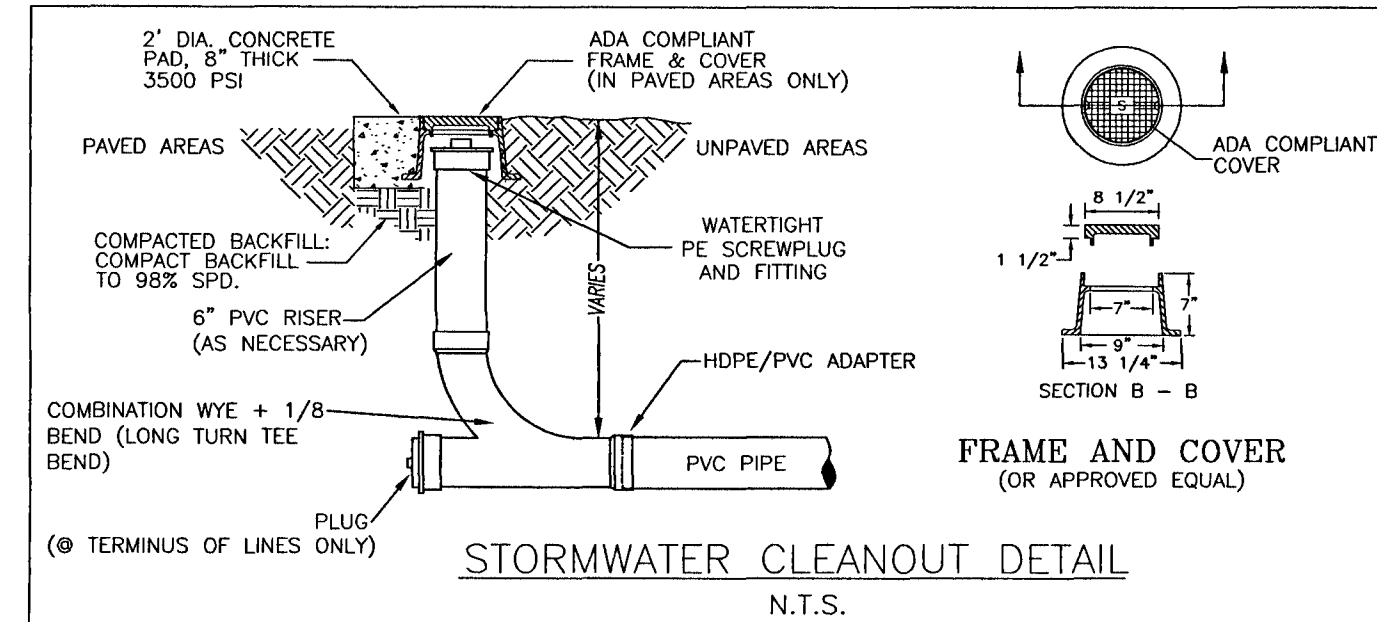
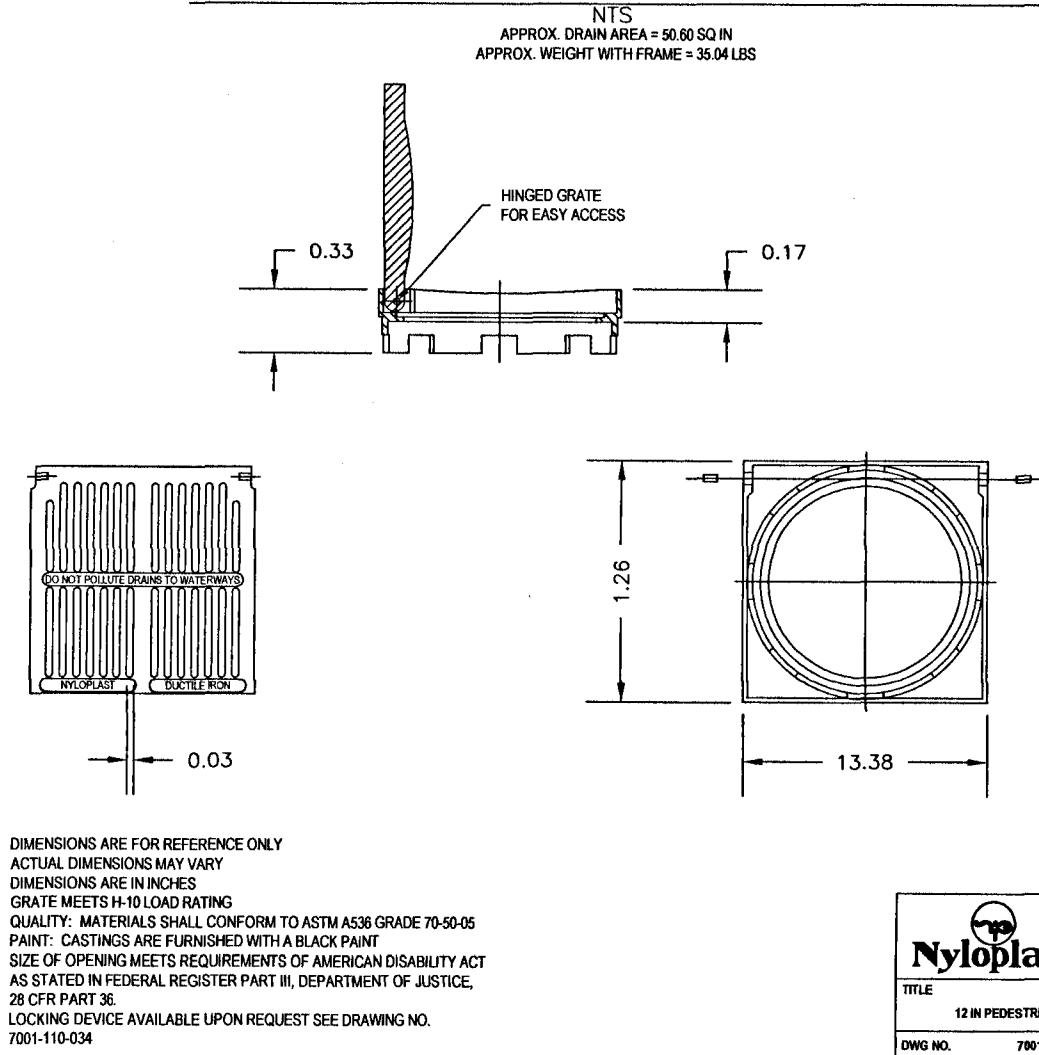
**MATERIALS**  
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM D4272. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-60-05. Grates and covers shall be provided painted black.

**INSTALLATION**  
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



### 12" PEDESTRIAN GRATE ASSEMBLY



**MATERIALS:**  
CONCRETE: 4000 PSI, TYPE II CEMENT  
WALL REINFORCING: 3x4 W3.1/W4.1 WWF 65 K.S.I. (AS PER FDOT-INDEX 201)  
BOTTOM SLAB REINFORCING: #4 @ 12" C.C.W.E. \*

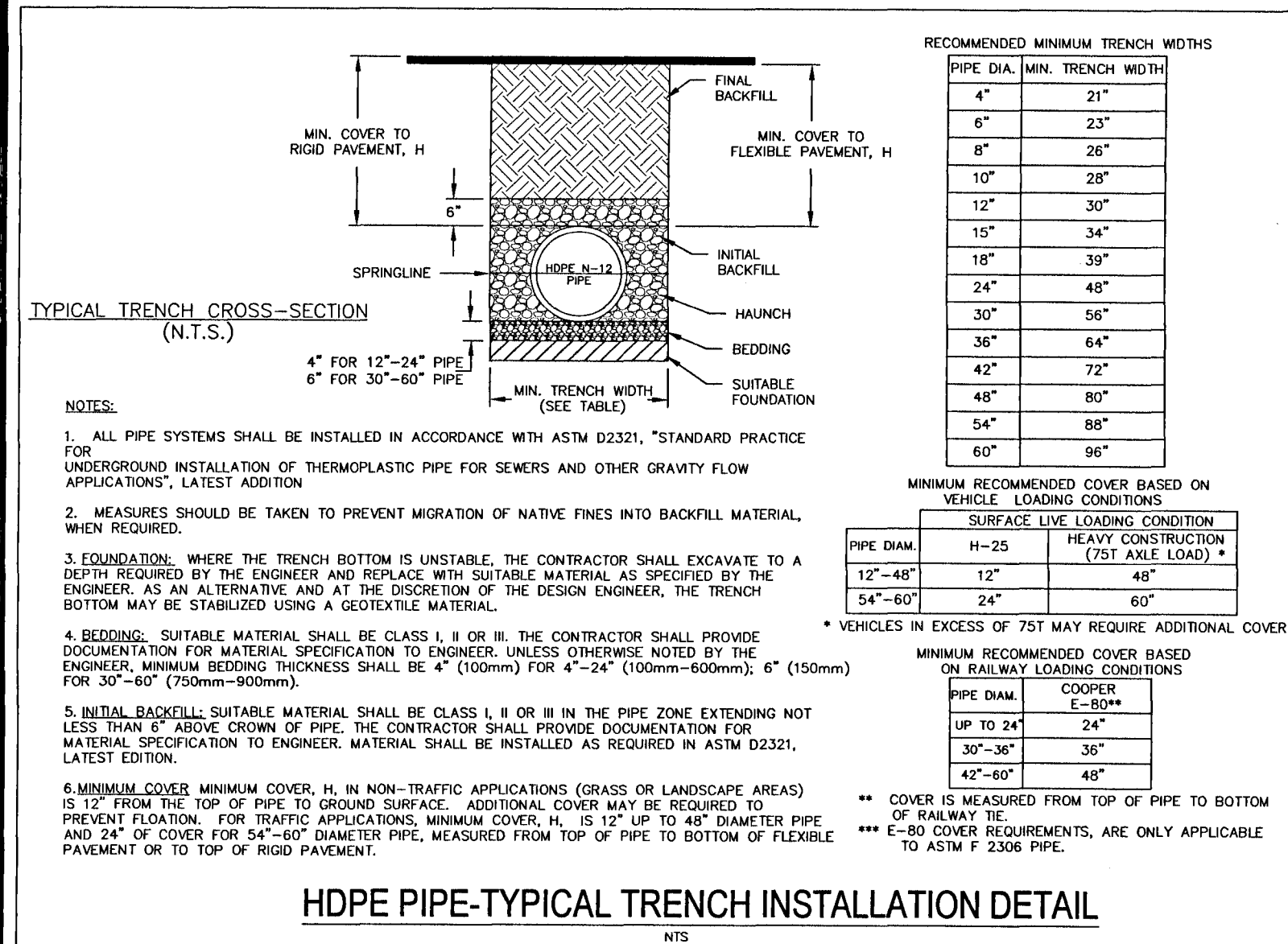
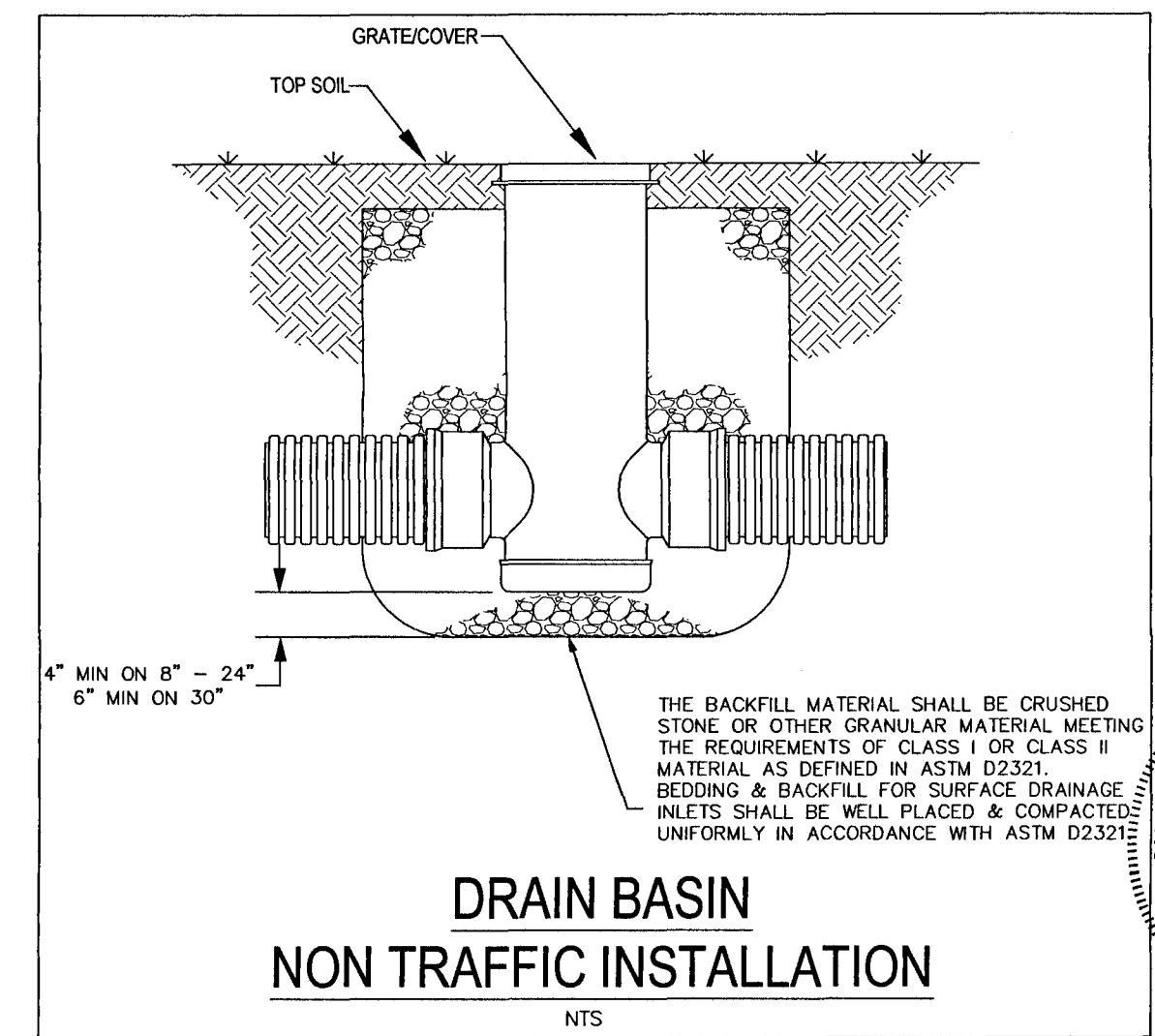
**NOTE:**  
ALL EXPOSED EDGES TO HAVE 3/4" CHAMFER.  
\* GRADE 40, OR EQUIVALENT WELDED WIRE MESH.

**GRATE INFORMATION:**

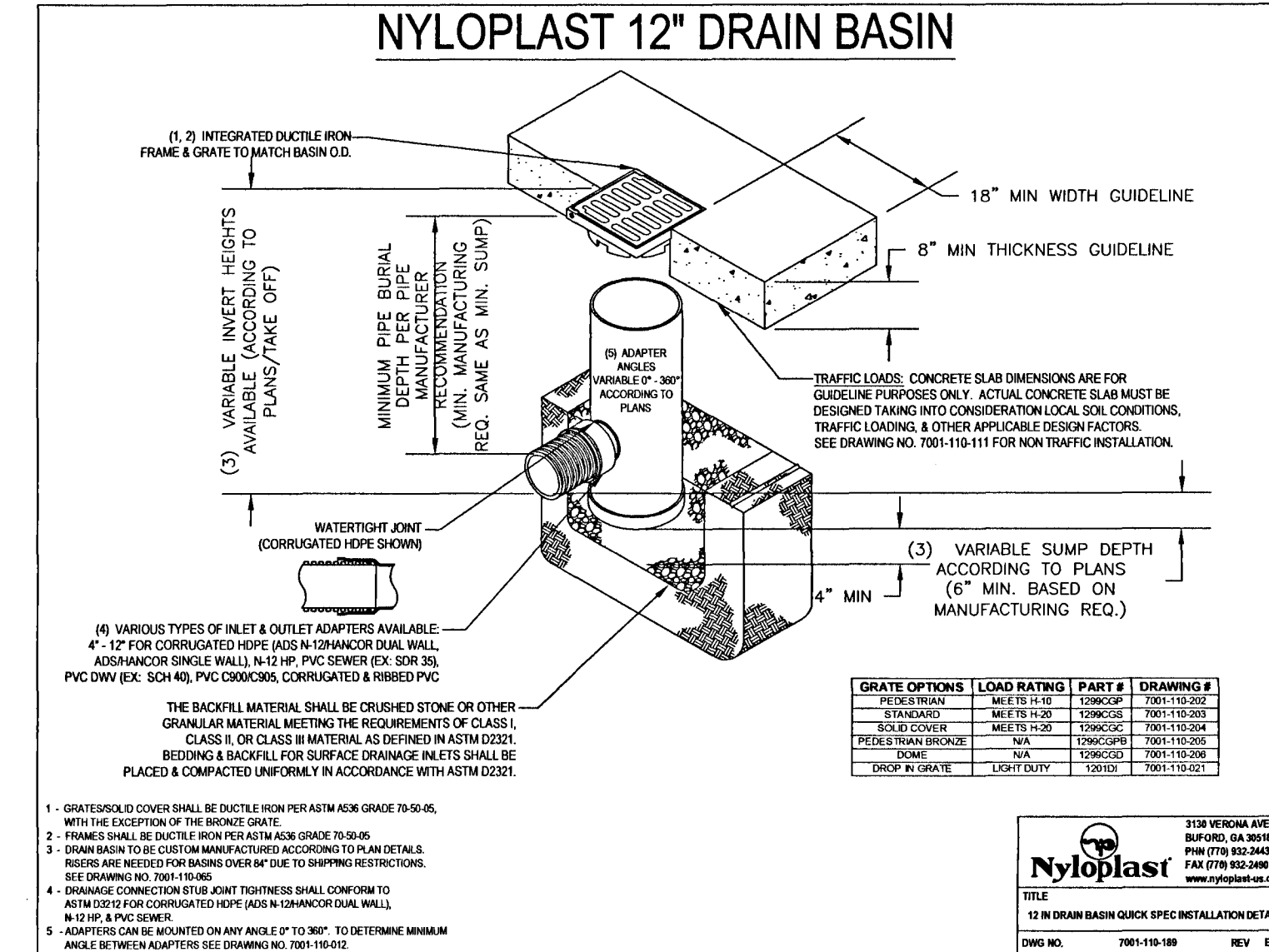
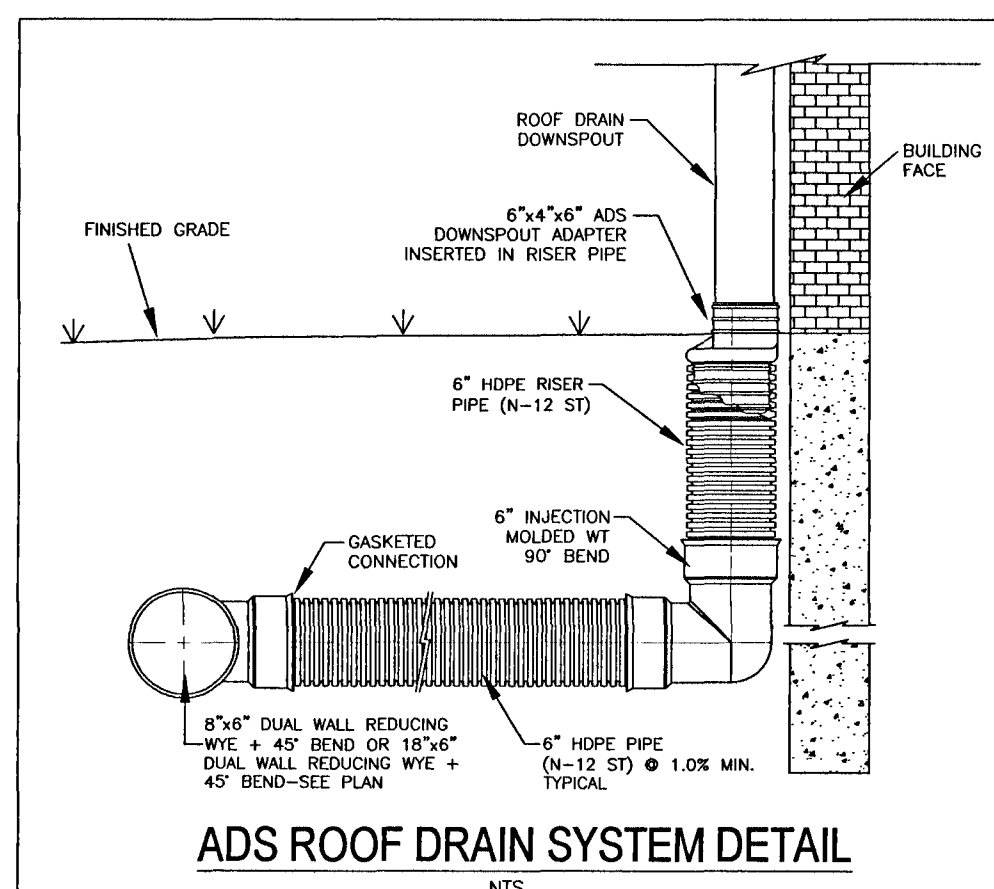
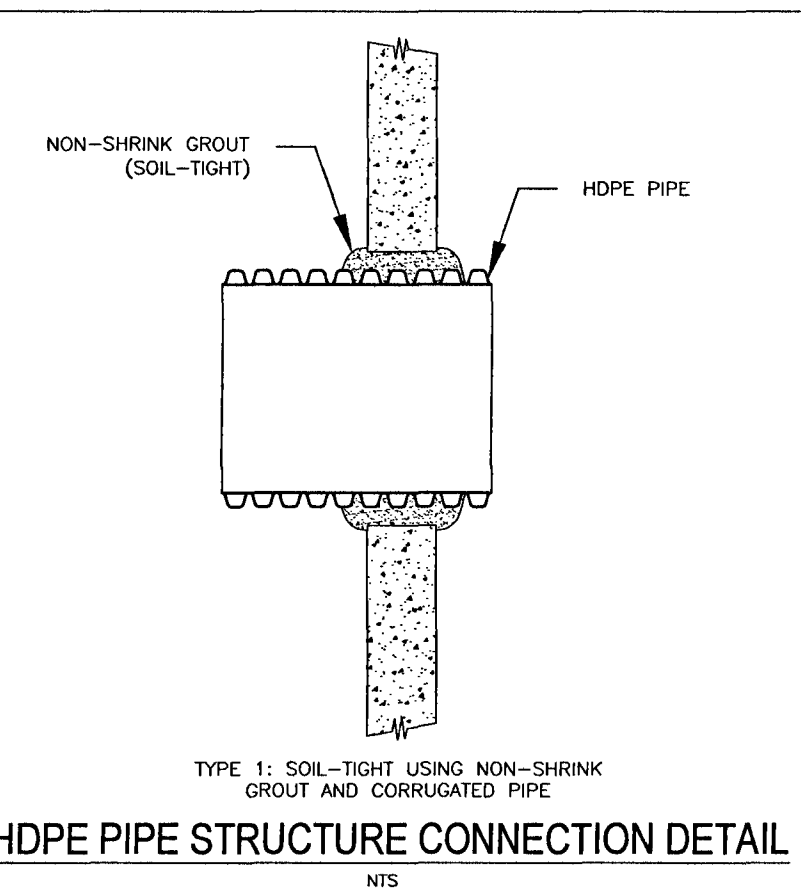
U.S.F. NO.	TYPE	RATING	FLOW AREA (SQ. IN.)
6212	CAST IRON	TRAFFIC	455

GRATE NOT SHOWN FOR CLARITY.

### FDOT TYPE 'C' DITCH BOTTOM INLET



**NOTES:**  
• TOP OF RIP-RAP TO BE AT INVERT ELEVATION OF MITERED END SECTIONS OR WEIR.  
• RIP-RAP TO BE MINIMUM 12" THICK. BROKEN STONE SHALL BE ROUGHLY ANGULAR AND FROM THIN OR ELONGATED PIECES.



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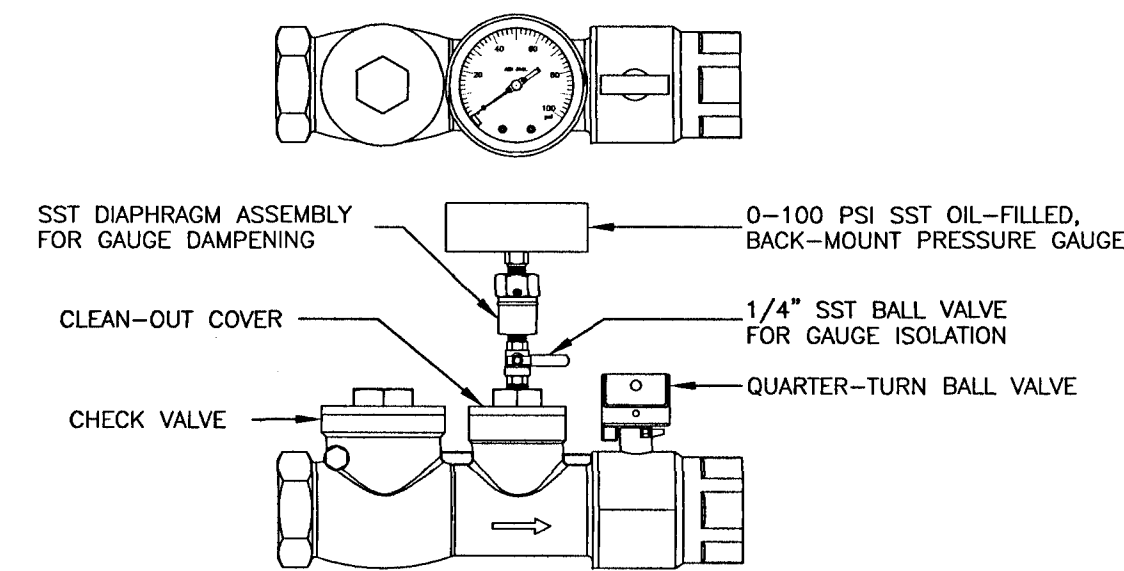
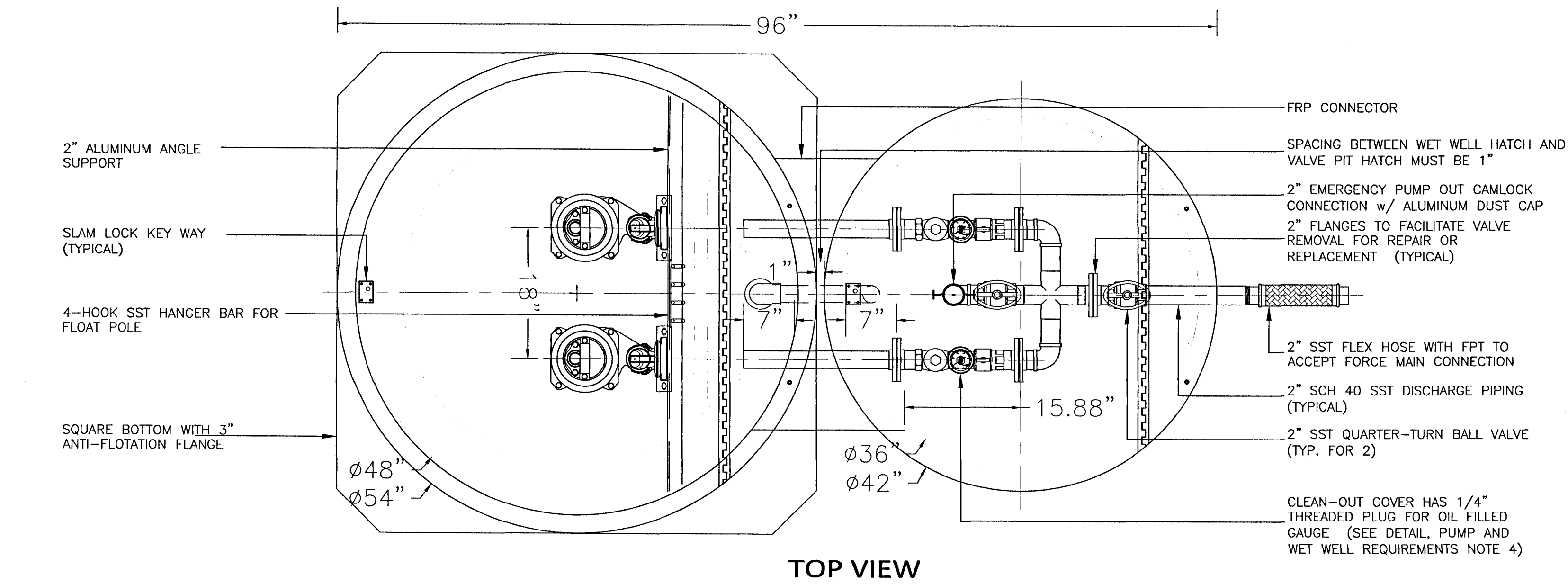
**STATE OF FLORIDA**  
PROFESSIONAL ENGINEER  
No. 55614  
J. J. J. J. J.

**SITE DEVELOPMENT PLANS FOR**  
**BEULAH ACADEMY OF**  
**SCIENCE GYMNASIUM**  
**DRAINAGE DETAILS**  
**ESCAMBIA COUNTY FLORIDA**

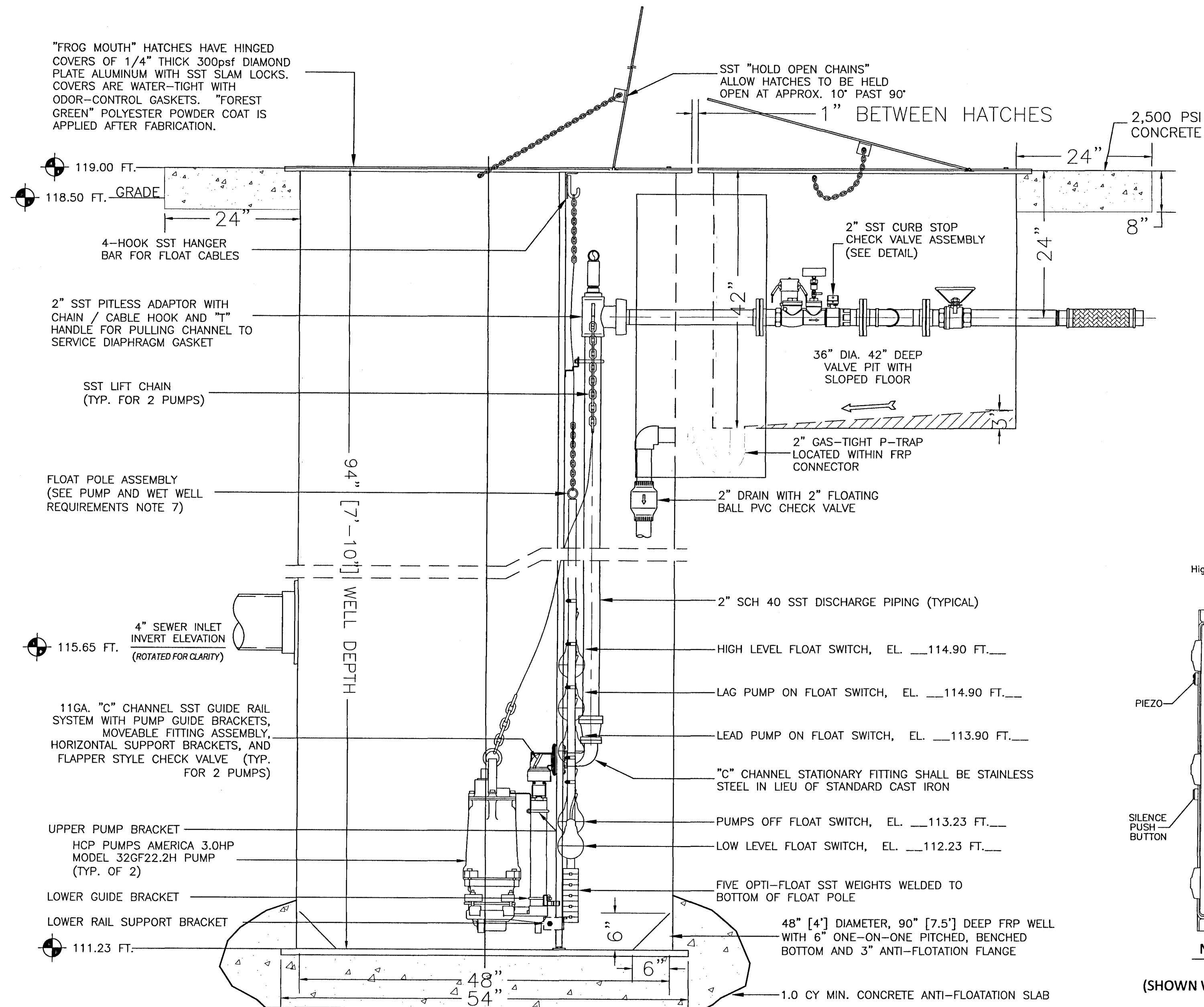
**DRAWN BY:** CUG  
**DESIGNED BY:** RLS  
**CHECKED BY:** TSH  
**DATE:** 02/25/21  
**SCALE:** AS SHOWN  
**NOT FOR CONSTRUCTION**  
**DATE:**

**PROJECT NO:** 20-085  
**SHEET:** C12





2" SST CURB STOP ASSEMBLY DETAIL



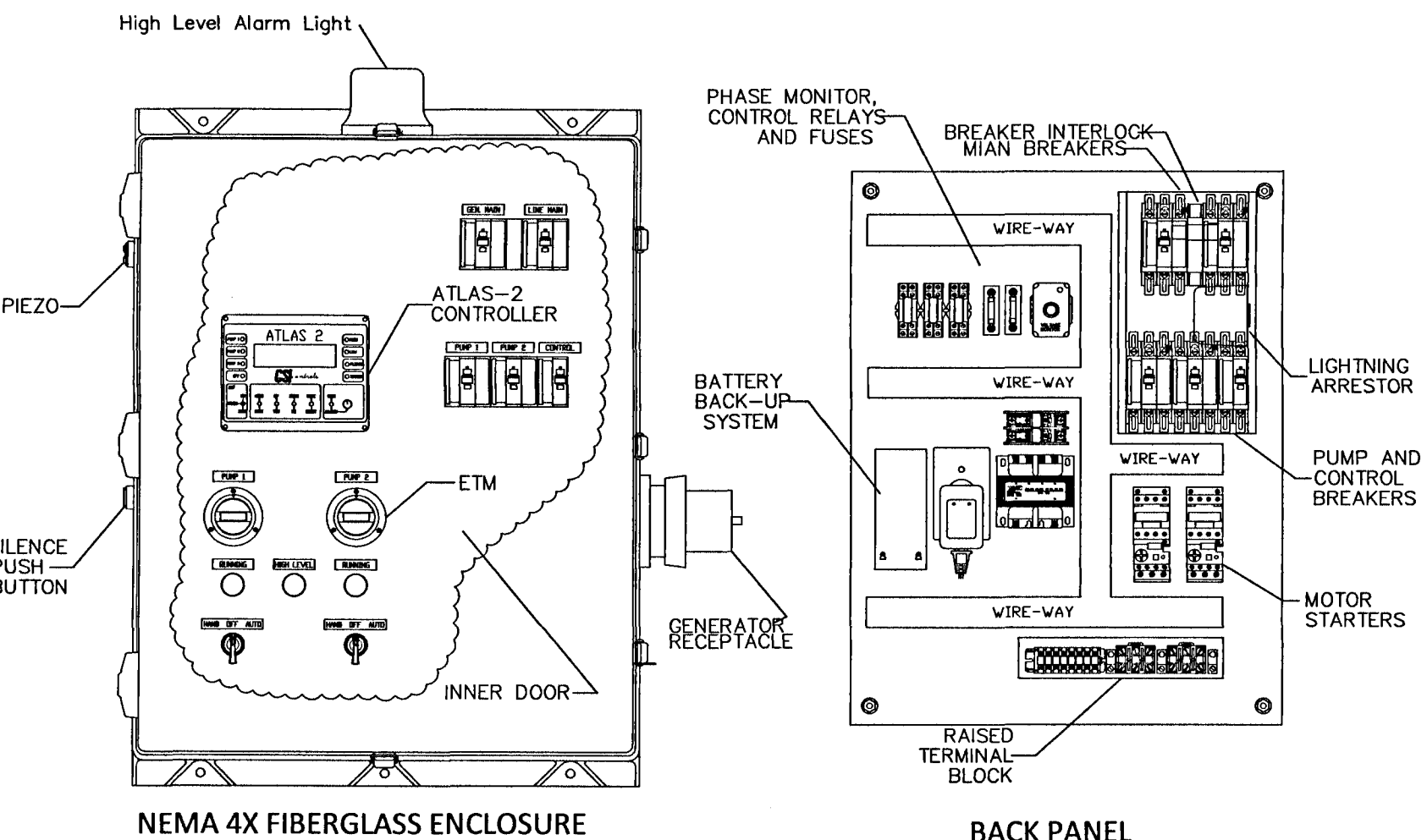
WET WELL ELEVATION

PUMP DATA	
MANUFACTURER	HCP PUMPS AMERICA
PUMP TYPE	GRINDER
MODEL NO.	32GF22.2H
CAPACITY (GPM/TDH)	21 GPM/117' TDH
DISCHARGE SIZE	1 1/4"
HP/RATED RPM	3.0/3440
VOLTAGE/PHASE	230/1
FLA	14.2

WET WELL DATA	
WET WELL DIAMETER	48"
WET WELL DEPTH	94"
INFLUENT ELEV.	115.65
FORCE MAIN DIAMETER	2"
BOTTOM ELEV.	111.23
LOW LEVEL ELEV.	112.23
ALL PUMPS OFF ELEV.	113.90
PUMP 1 (LEAD) ON ELEV.	113.90
PUMP 2 (LAG) ON ELEV.	114.90
HIGH LEVEL ALARM ELEV.	114.90
TOP ELEV.	119.00

- PUMP AND WET WELL REQUIREMENTS:**
- PUMPS SHALL BE MODEL 32GF22.2H SUBMERSIBLE GRINDER SEWAGE PUMP AS MANUFACTURED BY HCP PUMPS AMERICA (OR APPROVED EQUAL).
  - PUMPS ARE TO BE RATED AT 3.0 HP, 230 VOLT/1-PHASE. PUMPS SHALL DELIVER 21 GPM @ 117 FT. TOTAL DYNAMIC HEAD.
  - THE PUMPS MUST HAVE A 5-YEAR 100% REPAIR PARTS AND LABOR WARRANTY AS PROVIDED BY THE PUMP MANUFACTURER.
  - PRESSURE GAUGE TO BE SIZED TO READ NO MORE THAN 1-1/2 TIMES THE MAX. PRESSURE PUMP PROVIDES AT DEAD HEAD.
  - PUMP "C" CHANNELS SHALL BE 11 GAUGE IN LIEU OF STANDARD 14 GAUGE.
  - PUMP "C" CHANNEL STATIONARY FITTING SHALL BE STAINLESS STEEL IN LIEU OF STANDARD CAST IRON.
  - FLOAT POLE ASSEMBLY CONSISTS OF A 1-1/4" x 60" SST PIPE WITH SST LIFTING CHAIN MOUNTED TO WELDED EYE. CHAIN SHALL BE LONG ENOUGH TO POSITION THE FLOATS AT THE REQUIRED DEPTH. FIBER OPTIC "OPTI-FLOATS" ARE WEIGHTLESS AND MOUNT TO POLE WITH PIPE CLAMPS. FOUR SST WEIGHTS ARE WELDED TO BOTTOM OF FLOAT POLE FOR STABILITY.
  - THE PUMPS SHALL BE MOUNTED IN A 48 INCH BY 94 INCH DEEP FIBERGLASS BASIN. BASIN SHALL BE COMPLETELY ASSEMBLED AND AND SHALL INCLUDE ANTI-FLOATATION FLANGES LOCATED AT THE BASIN BOTTOM AND AS-SHOWN.
  - BASIN COVER SHALL BE SPLIT HINGED ALUMINUM WITH LOCKING ACCESS DOOR.
  - BASIN WILL HAVE DISCHARGE WITH VALVES INSTALLED AND READY TO ACCEPT PUMPS.
  - CONTROL PANEL AND ACCESSORIES MUST MEET CURRENT FDEP STANDARDS.
  - CONTROL PANEL ENCLOSURE AND "AIR BREAK" BOX TO RECEIVE FOREST GREEN POWDER COAT FINISH AFTER FABRICATION.
  - CONTROLLER SHALL AUTOMATICALLY ALTERNATE LEAD/LAG PUMP AND BRING ON THE LAG PUMP WHEN LIQUID LEVEL RISES TO THE LAG PUMP ON SWITCH. ALARM SHALL ALSO ACTIVATE WHEN LIQUID LEVEL RISES TO THE HIGH LEVEL ALARM SWITCH.
  - UNDER NORMAL OPERATION THE LEAD PUMP ON SWITCH SHALL ACTIVATE THE LEAD PUMP AND THE PUMPS OFF SWITCH SHALL STOP THE PUMP WHEN THE LEVEL DROPS TO THAT POINT.
  - ALL HARDWARE SHALL BE 304 STAINLESS STEEL UNLESS OTHERWISE NOTED.

- GENERAL NOTES:**
- ALL BREAKS IN WET WELL WALL FOR PIPING, CONDUIT, ETC. SHALL BE SEALED & SLEEVED AS NOTED.
  - TO PROTECT STANDPIPE FROM SWAY BRACE, EITHER WRAP PIPE WITH RUBBER OR INSERT ALL U-BOLTS THROUGH RUBBER HOSE.
  - PVC FORCE MAIN SHALL MEET ASTM D-2241, SDR 26 BELL TYPE JOINTS WITH RING TYPE NEOPRENE GASKETS.
  - LIGHTING ARRESTORS, SURGE CAPACITORS AND PHASE PROTECTION SHALL BE PROVIDED.
  - ALL ELECTRICAL COMPONENTS INSTALLED IN WET WELL SHALL COMPLY WITH NATIONAL ELECTRICAL CODE REQUIREMENTS FOR CLASS I GROUP D, DIVISION 1 LOCATIONS.
  - ALL ELECTRICAL COMPONENTS INSTALLED IN WET WELL SHALL BE SUITABLE FOR USE UNDER CORROSIVE CONDITIONS.
  - ALL FLEXIBLE CABLES SHALL BE PROVIDED WITH A WATER TIGHT SEAL AND STRAIN RELIEF.
  - MAIN POWER FEED SHALL BE PROVIDED WITH FUSE DISCONNECT SWITCH LOCATED IN CONTROL PANEL.
  - ALL ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL MEET ALL REQUIREMENTS OF WEATHER PROOF EQUIPMENTS, NEMA 3R OR 3.
  - A 110 VOLT RECEPTACLE, WITH GROUND FAULT INTERRUPT, SHALL BE PROVIDED IN CONTROL PANEL.
  - WET WELL SHALL BE VENTED AND SHALL INCORPORATE BUG SCREEN.
  - A DURABLE WEATHER RESISTANT SIGN INDICATING TELEPHONE NUMBER AND POINT OF CONTACT IN CASE OF EMERGENCY SHALL BE INSTALLED ON EXTERIOR OF CONTROL PANEL.
  - EACH PUMP SHALL BE PROVIDED WITH ELAPSED TIME METER.
  - ALL ELECTRICAL SUPPLY, CONTROL AND ALARM CIRCUITS SHALL BE PROVIDED WITH STRAIN RELIEF AND SHALL ALLOW FOR DISCONNECT FROM OUTSIDE THE WET WELL.
  - ALL ELECTRICAL SUPPLY, CONTROL AND ALARM CIRCUITS SHALL BE PROVIDED WITH WATER TIGHT SEALS.
  - CONTROL PANEL SHALL BE PROTECTED FROM ATMOSPHERE OF WET WELL BY CONDUIT SEAL MEETING THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
  - ALL PUMP POWER CORDS SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE STANDARDS FOR FLEXIBLE CORDS IN WATER PUMP STATIONS.
  - POWER PUMP CORDS SHALL BE PROVIDED WITH GROUND FAULT INTERRUPT PROTECTION TO DE-ENERGIZE THE CIRCUIT IN CASE OF FAILURE.
  - POWER CORD TERMINAL FITTINGS SHALL BE CORROSION-RESISTANT AND CONSTRUCTED IN A MANNER TO PREVENT ENTRY OF MOISTURE INTO THE CABLE.
  - ALL SHUT-OFF AND CHECK VALVES SHALL BE LOCATED IN SEPARATE VALVE PIT. VALVE PIT SHALL BE PROVIDED WITH DRAIN.
  - CONTROL PANEL SHALL BE PROVIDED WITH AUDIO-VISUAL ALARM FOR POWER FAILURE, PUMP FAILURE, UNAUTHORIZED ENTRY, OR OTHER PUMP STATION MALFUNCTION. ALARM TO INCLUDE BATTERY BACKUP.
  - LIFT STATION SHALL BE PROVIDED WITH QUICK-DISCONNECT TO ALLOW FOR EMERGENCY PUMPING.
  - CONTROL PANEL, VALVE BOX & WET WELL HATCH ALL TO INCLUDE LOCKING MECHANISM TO PREVENT UNAUTHORIZED ACCESS.



CONTROL PANEL DETAILS  
SCALE: NONE

<b>REVISIONS</b> NO. DATE REVISIONS 1 04/20/2021 REVISED PLANS AS PER ESCAMBIA COUNTY DRG REVIEW COMMENTS 2 04/21/2021 REVISED PLANS AS PER ECUA PER REVIEW COMMENTS		THIS DRAWING IS THE PROPERTY OF HAMMOND ENGINEERING, INC. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED UPON REQUEST.
<b>PROJECT NO: 20-085</b>		
<b>SHEET: C13</b>		
<b>DATE:</b>		

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SITE DEVELOPMENT  
 PLANS FOR  
 BEULAH ACADEMY OF  
 SCIENCE GYMNASIUM  
 LIFT STATION DETAILS  
 ESCAMBIA COUNTY FLORIDA