





## GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH FDOT SPECIFICATIONS AND PER ALL STATE AND FEDERAL ADA REGULATIONS.
- IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER OF RECORD.
- IF CONTRACTOR OR THEIR SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR, OWNER MAY, BUT IS NOT REQUIRED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH REQUIREMENTS OF THESE GENERAL NOTES WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE, OR WITHIN THE TIME OF ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
- THE PROJECT DESIGN HAS BEEN BASED UPON FIELD SURVEY PROVIDED BY POOLE ENGINEERING & SURVEYING AND SITE VISITS BY DRMP. DRMP MAKES NO ASSURANCE REGARDING THE ACCURACY OF ANY SURVEY OR EVALUATION BY OTHERS.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, LIMITS OF CONSTRUCTION, WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY EFFECT THE SUCCESSFUL COMPLETION OF THE PROJECT, PRIOR TO THE COMMENCEMENT OF WORK. IF CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS OR SPECIFICATIONS, HE SHALL IMMEDIATELY NOTIFY OWNER OR OWNER'S AGENT.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, GIVE ALL NOTICES REQUIRED BY, AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, AND PERMIT CONDITIONS BEARING ON THE EXECUTION OF PROJECT, AS DRAWN AND SPECIFIED. IF CONTRACTOR OBSERVES THAT THE DRAWINGS OR SPECIFICATION ARE IN VARIANCE WITH ANY APPLICABLE LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, HE SHALL TAKE ANY ACTIONS NECESSARY TO MITIGATE ANY POTENTIAL DAMAGE, AND PROMPTLY NOTIFY DESIGN ENGINEER IN WRITING OF SUCH VARIANCE. ANY NECESSARY CHANGES TO THE DRAWING AND SPECIFICATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE TO OWNER AND DESIGN ENGINEER FOR THE ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER THIS CONTRACT BETWEEN OWNER AND CONTRACTOR, FOR THIS PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH ALL GOVERNMENTAL AGENCIES, DEPARTMENT OR BODIES, PUBLIC AND PRIVATE UTILITIES, CARRIERS OR SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ANY ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE OR TELEGRAPH FACILITIES, SUCH AS PAVEMENT, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED TO SUCH SERVICES, THAT ARE ENCOUNTERED DURING THE PROJECT, IN ORDER THAT SUCH ITEMS MAY BE PROPERLY PROTECTED, SUPPORTED OR RELOCATED AS NEEDED.
- UNLESS OTHERWISE SPECIFIED IN THESE GENERAL CONDITIONS, SPECIFICATIONS OR IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, SPECIFICATION AND APPLICABLE PERMITS, ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS, PERMIT CONDITIONS AND BUILDING AND SAFETY CODES BEARING ON THE EXECUTION OF THE PROJECT.
- PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY OR EASEMENT, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMITS FROM THE APPLICABLE JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY OR EASEMENT. ADDITIONALLY, CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL AT 811 AT LEAST 48 HOURS OR 2 BUSINESS DAYS WHICHEVER IS GREATER PRIOR TO DIGGING OR OTHERWISE DISTURBING UTILITIES. POST ALL APPLICABLE PERMITS AS REQUIRED.
- CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS AND PROPERTY CORNERS. IN THE EVENT ANY REFERENCE MONUMENTS, CONTROL POINTS, BENCHMARKS OR PROPERTY CORNERS ARE DISTURBED, CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE SUCH.
- THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS AND AGENCIES SHALL HAVE ACCESS TO THE PROJECT AT ALL TIMES. CONTRACTOR SHALL PROVIDE REASONABLE AND PROPER FACILITIES FOR SUCH ACCESS AND INSPECTION OF THE WORK.
- CONTRACTOR SHALL COMPLY IN EVERY ASPECT WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AS AMENDED AND ALL RULES, STATUTES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT. THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS PERTAINING TO JOB SAFETY AND HEALTH, INCLUDING, BUT NOT LIMITED TO CFR 1910 AND 1926.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING AND SAFETY CODES, FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE AND REQUIRED SAFEGUARDS FOR THE SAFETY AND PROTECTION OF ALL PERSONNEL, EQUIPMENT OR MATERIALS, INCLUDING BUT NOT LIMITED TO, POSTING OF DANGER SIGNS AND OTHER WARNING AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND SAFETY REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REASONABLE AND PRUDENT PRECAUTIONS FOR THE SAFE AND SECURE PROTECTION OF ALL INCOMPLETE WORK, MATERIALS AND EQUIPMENT STORED ONSITE AND OFFSITE, AND ANY UNAUTHORIZED ACCESS TO SUCH.
- CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, AND GUIDELINES AND RECOMMENDATIONS PERTAINING TO THE SAFE UTILIZATION OF ALL EQUIPMENT AND MATERIALS, AS PUBLISHED BY MANUFACTURER OR SUPPLIER.
- PRIOR TO INITIATING ANY EXCAVATION (INCLUDING, BUT NOT LIMITED TO, TUNNELS, DITCHES, SWALES, STORMWATER PONDS, CANALS, OR ARTIFICIAL LAKES), CONTRACTOR SHALL REVIEW AND MAKE ARRANGEMENTS TO COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, (INCLUDING BUT NOT LIMITED TO CFR 1926 SUBPART P, AND OSHA DIRECTIVES CPL 2.69 AND 2.87) PERTAINING TO SAFE TRENCHING AND EXCAVATION. CONTRACTOR SHALL INSTALL ALL NECESSARY FENCES AND BARRIERS, AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO ENSURE THAT ACCESS TO EXCAVATIONS BY UNAUTHORIZED INDIVIDUALS IS PREVENTED.
- CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE AND REQUIRED PROTECTION TO PREVENT INJURY, DAMAGE OR LOSS TO:
  - ALL INDIVIDUALS INCLUDING CONTRACTOR'S EMPLOYEES, AND ALL SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, INSPECTORS AND ANY OTHER PERSONS PERFORMING ANY WORK UNDER A CONTRACT WITH THE CONTRACTOR;

## GENERAL NOTES (continued)

- ALL THE WORK, MATERIALS AND EQUIPMENT TO BE INCORPORATED INTO THE FINAL PRODUCT, WHETHER IN STORAGE ONSITE OR OFFSITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS; AND
  - OTHER PROPERTY AT THE SITE OR ADJACENT TO THE SITE, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL OR DEMOLITION DURING THE COURSE OF THE PROJECT.
  - ALL DAMAGE OR LOSS TO ANY PROPERTY, UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER, CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, CONTRACTOR'S EMPLOYEES, ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK UNDER A CONTRACT WITH THE CONTRACTOR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR DAMAGE OR PROPERTY LOSS ATTRIBUTED SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER OR THE DESIGN ENGINEER, OR ANY SUBCONTRACTORS OR THEIR AGENTS, EMPLOYEES OR OTHER PERSONS PERFORMING WORK FOR THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- ALL INJURY, DAMAGE OR LOSSES TO ANY PERSONNEL, EQUIPMENT, MATERIALS OR PROPERTY, AS NOTED IN PARAGRAPH 18, CAUSED IN WHOLE OR IN PART, THROUGH FAULT OR NEGLIGENCE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT FOR INJURY, DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS, ERRORS OR OMISSIONS OF OWNER, DESIGN ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR THOSE ACTS ANY OF THEM MAY BE LIABLE AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
  - UNTIL THE FINAL ACCEPTANCE OF THE PROJECT BY OWNER, CONTRACTOR SHALL HAVE THE COMPLETE CHARGE AND CARE OF, AND SHALL BEAR ALL RISKS AND EXPENSES FOR ANY INJURY, DAMAGE OR LOSS, OR TO ANY PORTION OF THE WORK, ALL MATERIALS STORED ONSITE OR OFFSITE BY THE ACTION OF THE ELEMENTS, OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. CONTRACTOR SHALL BEAR ALL EXPENSES FOR ANY REPAIRS, REBUILDING OR RESTORATION, AND MAKE GOOD ALL INJURIES, DAMAGES OR LOSSES TO ANY PORTION OF THE WORK BEFORE FINAL ACCEPTANCE OF THE PROJECT BY OWNER.
  - CONTRACTOR SHALL NOT LOAD, CAUSE OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER SAFETY. NO LOAD SHALL BE PLACED ON ANY ROOF WITHOUT THE APPROVAL OF OWNER AND DESIGN ENGINEER.
  - THOSE PARTS OF THE WORK IN PLACE, WHICH ARE SUBJECT TO DAMAGE, BECAUSE OF ACTIVITIES OR OPERATIONS BEING CARRIED OUT ADJACENT TO, SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY CONTRACTOR AT HIS EXPENSE.
  - CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COST, ATTORNEY'S FEES, EXPENSES, CAUSE OF ACTION, CLAIMS OR OTHER JUDGMENTS RESULTING FROM VIOLATIONS UNDER OSHA OR ANY RULES, STATUTES OR REGULATIONS PROMULGATED THERE UNDER, OR ANY FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK OR WORK TO BE PERFORMED ON THIS PROJECT. CONTRACTOR SHALL INDEMNIFY OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES PAID OR INCURRED BY, OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENT AND EMPLOYEES. CONTRACTOR FURTHER AGREES IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL, STATE OR LOCAL SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF THE WORK, OR WORK TO BE PERFORMED ON THIS PROJECT, OWNER MAY IMMEDIATELY TAKE ALL ACTIONS DEEMED NECESSARY TO REMEDY THE CLAIMED VIOLATIONS. ANY AND ALL COST OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE SOLELY BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COST OR EXPENSES.
  - ALL WORK PERFORMED UNDER THIS CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO ALL APPLICABLE BUILDING AND SAFETY CODES, AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL APPLY.
  - "HAZARDOUS MATERIALS" MEANS ANY SUBSTANCE WHICH:
    - THE PRESENCE OF REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, OR
    - IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE", "HAZARDOUS SUBSTANCE", POLLUTANT OR CONTAMINATE UNDER ANY PRESENT FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS OR AMENDMENTS, INCLUDING BUT NOT LIMITED TO, THE 1980 COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND/OR THE 1976 RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), OR
    - IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE(S) IN WHICH THE PROJECT IS LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR
    - THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR
    - THE PRESENCE OF ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE ENVIRONMENT, OR
    - CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (G) CONTAIN POLYCHLORINATED BIPHENYLS (PCB'S), ASBESTOS, MERCURY, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
  - CONTRACTOR AND ITS SUBCONTRACTORS SHALL PROPERLY USE, HANDLE, TRANSPORT AND DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, STATUTES, REGULATIONS OR PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO, LAWFUL ORDERS OF ANY QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THE PROTECTION AGAINST INJURY, DAMAGE, OR LOSS TO PERSONNEL, EQUIPMENT OR MATERIALS, OR DESIGNED TO PROTECT THE ENVIRONMENT.
  - CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE IMPROPER DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIALS OR SUBSTANCES CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL TAKE ALL SUCH ACTIONS AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECTS OF SUCH SPILL ON ANY PERSON OR PROPERTY, NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND NOTIFY OWNER IN WRITING.
  - CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS PROJECT, REMOVE ALL SUPPLIES, MATERIALS AND WASTE CONTAINING HAZARDOUS MATERIALS FROM THE JOB SITE. CONTRACTOR SHALL BEAR ALL FINANCIAL RESPONSIBILITY, BETWEEN THE PARTIES OF THE CONTRACT, FOR COMPLIANCE WITH THE PROVISIONS OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR.
  - CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD HARMLESS OWNER FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COST OF INVESTIGATION, SOIL TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THESE GENERAL NOTES.

## GENERAL NOTES (continued)


- SHOULD THE CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIALS ON OR ABOUT THE JOB SITE IN VIOLATION OF THESE GENERAL NOTES, SPECIFICATIONS OR AGREEMENT BETWEEN OWNER AND CONTRACTOR OR IN THE EVENT OF ANY SPILL, RELEASE OR ANY REPORTABLE OCCURRENCES, CONTRACTORS SHALL IMMEDIATELY TAKE SUCH ACTIONS AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECTS OF SUCH SPILLS ON PERSONS, PROPERTY OR THE ENVIRONMENT, NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND INFORM THE OWNER IN WRITING.
- IN THE EVENT CONTRACTOR OR ANY OF ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL OR ENCOUNTER ANY MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER IN WRITING.
- A SUFFICIENT LABOR FORCE SHALL BE MAINTAINED TO UNDERTAKE THE SCOPE OF WORK THAT IS TO BE PERFORMED. PRIOR TO THE START OF EACH DAYS WORK, THE ON-SITE INSPECTOR SHALL APPROVE THE PERSONNEL PROVIDED BY THE CONTRACTOR TO INSURE THAT AN ADEQUATE NUMBER OF WORKERS ARE AVAILABLE AS WELL AS CAPABLE OF PROVIDING THE SKILLS NECESSARY TO PERFORM THE NECESSARY TASK. IF AT ANY TIME, DURING THE WORKING DAY, THE INSPECTOR FEELS THAT ADEQUATE PERSONNEL ARE NOT BEING PROVIDED, HE MAY STOP ALL WORK ACTIVITIES UNTIL THE CONTRACTOR CORRECTS THE SITUATION. THE CONTRACTOR'S SUPERINTENDENT SHALL BE FREE AT ALL TIMES TO SUPERVISE AND COORDINATE THE WORK IN PROGRESS WITH THE ON-SITE INSPECTOR WITHOUT BEING REQUIRED TO PERSONALLY OPERATE THE EQUIPMENT OF THE PROJECT.
- LEON COUNTY SHALL RESERVE THE RIGHT TO SAMPLE ANY OR ALL MATERIALS TO DETERMINE THAT MATERIALS MEET SPECIFICATIONS. FAILURE TO MEET SPECIFICATIONS SHALL BE CAUSE FOR CANCELLATION OF DELIVERY. REJECTION OF MATERIALS PROVIDED FOR PARTIAL OR FULL PAYMENT DEDUCTION AS DETERMINED BY THE COUNTY REPRESENTATIVE.
- THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF CONSTRUCTION ACTIVITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING OF CONSTRUCTION AND COORDINATE SCHEDULES WITH UTILITY OWNERS DURING CONSTRUCTION.
 

UTILITY CONTACTS:  
 WATER & SEWER: CITY OF TALLAHASSEE - BRUCE KESSLER (850) 891-6105  
 ELECTRIC: TALQUIN ELECTRIC - KENNY GRAVES (850) 562-0125 OR MARK TAYLOR (850) 878-4414  
 TELEPHONE: CENTURYLINK - MARK WILLIAMS (WILLIAMSJM@OUTSOURCE-INC.COM)  
 WATER: CITY OF TALLAHASSEE, SAL ARNALDO (850) 891-6182 (SALVADOR.ARNALDO@TALGOV.COM)

CABLE-COMCAST - "SUNSHINE 1 CALL UTILITY" (800) 432-4770

STORMWATER MANAGEMENT CONTROL OFFICER - ON-SITE CONTRACTORS REPRESENTATIVE AND MS. BETSY THORPE (850) 606-1522

TREE PRUNING AND IMPACTS:  
 CONTRACTOR SHALL HIRE A CERTIFIED ARBORIST APPROVED BY LEON COUNTY PUBLIC WORKS TO PROVIDE ALL SERVICES RELATED TO TREE PRUNING AND IMPACTS TO ANY TREE THAT FALL WITHIN THE CRITICAL PROTECTION ZONE OF THE TREE. ARBORIST SHALL SUBMIT PROPOSED PRUNING AREAS AND METHODS TO LEON COUNTY DEVELOPMENT SERVICES AND ENVIRONMENTAL MANAGEMENT AND LEON COUNTY PUBLIC WORKS PROJECT MANAGER FOR APPROVAL PRIOR TO WORK AND EXCAVATION.
- CONSTRUCTION NOTES
  - PRIOR TO CLEARING CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION, FLAG ALL TREES TO BE REMOVED, AND NOTIFY THE PROJECT MANAGER AND COUNTY ENVIRONMENTAL INSPECTOR FOR VERIFICATION. ALL REMAINING TREES ARE TO BE PROTECTED AS SHOWN IN THE DETAILS. CONTRACTOR IS REQUIRED, AT ALL TIMES, TO MINIMIZE IMPACTS TO EXISTING TREES AND VEGETATION.
  - ALL EXCESS MATERIALS EXCAVATED THAT ARE NOT NEEDED FOR CONSTRUCTION OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED AT HIS EXPENSE AT A SAFE UPLAND LOCATION. MATERIALS SHALL BE STOCKPILED SEPARATELY INTO USEABLE (NONORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH A STAGING AREA WITH THE COUNTY ENGINEER'S REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING NECESSARY PERMITS IF REQUIRED BY ANY AGENCIES. IF THE STAGING AREA IS OUTSIDE THE COUNTY'S RIGHT-OF-WAY OR PROPERTIES, CONTRACTOR IS REQUIRED TO OBTAIN A TEMPORARY STAGING AREA PERMIT FROM LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT DEPARTMENT.
  - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE, AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY.
  - ALL DITCHES, PONDS, ROADWAYS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED SURFACE WITH NO SHARP BREAKS IN GRADE, OR NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES.
  - ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
  - ALL CROSS DRAINS, SIDE DRAINS, AND DRIVEWAY CULVERTS WILL HAVE END TREATMENTS SUCH AS MITERED ENDS, HEAD WALLS, OR SAND CEMENT BAGS. ALL CROSS DRAINS AND CULVERTS SHALL BE CLEANED OF ALL SILT OR DEBRIS PRIOR TO COMPLETION OF CONSTRUCTION.
  - ASPHALT IS TO BE APPLIED AS SHOWN IN THE TYPICAL SECTIONS AND DETAILS OF THIS PLANS SET.
  - RELOCATE ALL ROAD SIGNS WITHIN THE PROJECT LIMITS THAT WILL BE IMPACTED BY THE CONSTRUCTION. ANY EXISTING DAMAGED SIGNS OR POST SHALL BE REPLACED WITH LIKE SIGNS MEETING THE REQUIREMENTS OF THE MUTCD & FDOT.
  - ALL METER BOXES SHALL BE RELOCATED TO REFLECT THE PROPOSED GRADE AND SLOPE.
  - ANY EXISTING VALVE BOXES OR MANHOLES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RAISED AS NECESSARY TO MATCH PROPOSED CONDITIONS
  - CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DISTURBANCE BEYOND THE PERMITTED LIMITS OF CLEARING.
  - SHOULD THE CONTRACTOR ENCOUNTER ANY HISTORIC ARTIFACTS THEN CONSTRUCTION ACTIVITY SHALL CEASE IN THE VICINITY OF ANY FOUND ARTIFACTS AND THE APPROPRIATE AUTHORITIES SHALL BE NOTIFIED.
  - SHOULD THE CONTRACTOR ENCOUNTER ANY KARST/LIMESTONE DURING EXCAVATION EFFORTS THE DESIGN ENGINEER, LEON COUNTY PROJECT MANAGER AND LEON COUNTY ENVIRONMENTAL INSPECTOR SHALL BE NOTIFIED IMMEDIATELY. A MINIMUM OF 3 FEET OF UNCONSOLIDATED SOIL MUST BE IN PLACE BETWEEN THE BOTTOM OF EXCAVATED AREAS AND LIMESTONE.
  - THE STOCKPLING OF MATERIAL MAY REQUIRE AN ADDITIONAL PERMIT BY THE CONTRACTOR.
  - ALL PARKING(EXCEPT PULL THROUGH PARKING AT TRAILHEAD) SHALL HAVE CONCRETE WHEEL STOPS & 6" WHITE STRIPING TO DELINEATE PARKING SPACES. ADA PARKING SHALL BE PAINTED PER ALL CODE & LEON COUNTY REQUIREMENTS.
  - PLAYGROUND WILL BE CONSTRUCTED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH PLAYGROUND INSTALLER FOR INSTALLATION OF PLAYGROUND.

R	E	V	I	S	O	N	S	DESIGNED BY		DRAWN BY		CHECKED BY		APPROVED BY			
								NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
<b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b>								2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501				<b>FRED GEORGE BASIN GREENWAY EMP SUBMITTAL</b>		LEON COUNTY, FLORIDA		DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE	
<b>DRMP</b>								ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS		Certificate of Authorization No. 2648 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM				Bryant King, P.E. Florida Engineer # 51994		PROJECT NO.: <b>10-0547.004</b>	
SCALE:								<b>AS SHOWN</b>		DATE: <b>07/11/2014</b>		DRAWING: <b>2</b>					



TREE #	TREE TYPE AND SIZE	DEBIT COUNT
1	16" PINE	DEBIT 6
2	12" PINE	DEBIT 4
3	28" CHERRY	DEBIT 10
4	13" PINE	DEBIT 6
5	12" PINE	DEBIT 4
6	21" SASSAFRAS	DEBIT 8
7	12" PINE	DEBIT 4
8	25" SASSAFRAS	DEBIT 10
9	12" PINE	DEBIT 4
10	13" PINE	DEBIT 6
11	13" PINE	DEBIT 6
12	12" PINE	DEBIT 4
13	12" PINE	DEBIT 4
14	12" PINE	DEBIT 4
15	30" PECAN	DEBIT 10
16	13" PINE	DEBIT 6
17	13" PINE	DEBIT 6
18	12" PINE	DEBIT 4
19	58" PECAN	DEBIT 28
20	12" PINE	DEBIT 4
21	24" CHERRY	DEBIT 8
22	15" PINE	DEBIT 6
23	14" CHERRY	DEBIT 6
24	13" PINE	DEBIT 6
25	30" PINE	DEBIT 10
26	33" PECAN	DEBIT 16
27	12" LAUREL OAK	DEBIT 4
28	42" LAUREL OAK	DEBIT 20
29	12" GUM	DEBIT 4
30	24" PINE	DEBIT 8
31	48" LIVE OAK	DEBIT 24
32	25" PINE	DEBIT 10
33	12" LAUREL OAK	DEBIT 4
34	13" PINE	DEBIT 6
35	13" LAUREL OAK	DEBIT 6
36	17" PECAN	DEBIT 6
37	17" PECAN	DEBIT 6
38	20" CHERRY	DEBIT 8
39	23" CHERRY	DEBIT 8
40	24"-36" LIVE OAK CLUMP	DEBIT 24
41	13" PINE	DEBIT 6
42	14" PINE	DEBIT 6
43	13" PINE	DEBIT 6
44	12" PINE	DEBIT 4
45	13" PINE	DEBIT 6
46	12" PINE	DEBIT 4
47	13" PINE	DEBIT 6
48	33" PINE	DEBIT 16
49	31"-30" LIVE OAK	DEBIT 26
50	41" LIVE OAK	DEBIT 20
TOTAL		DEBIT 420

TREE #	TREE TYPE AND SIZE	DEBIT COUNT
51	15" PINE	DEBIT 6
52	72" LIVE OAK	DEBIT 40
53	42" PINE	DEBIT 20
54	28" PINE	DEBIT 10
55	21" PALM	DEBIT 8
56	27" PINE	DEBIT 10
57	29" PINE	DEBIT 10
58	19" LIVE OAK	DEBIT 8
59	45"/15" LIVE OAK	DEBIT 30
60	20" PINE	DEBIT 8
61	26" PINE	DEBIT 10
62	29" PINE	DEBIT 10
63	23" PINE	DEBIT 8
64	24" PINE	DEBIT 8
65	17" LAUREL OAK	DEBIT 8
66	19"/9" LIVE OAK	DEBIT 12
67	18" LIVE OAK	DEBIT 8
68	16" PINE	DEBIT 6
69	15" PINE	DEBIT 6
70	21"/16"/11" LIVE OAK	DEBIT 18
71	19" PINE	DEBIT 8
72	20" PINE	DEBIT 8
73	12" LAUREL OAK	DEBIT 4
74	47" LIVE OAK	DEBIT 24
75	31" PINE	DEBIT 16
76	70" LIVE OAK	DEBIT 40
77	15" PINE	DEBIT 6
78	40" LIVE OAK	DEBIT 20
79	53" LIVE OAK	DEBIT 28
80	67" LIVE OAK	DEBIT 40
81	55" LIVE OAK	DEBIT 28
82	36" LIVE OAK	DEBIT 16
83	52" LIVE OAK	DEBIT 28
84	34" WATER OAK	DEBIT 16
85	28"/24" LIVE OAK	DEBIT 18
86	48"-20" LIVE OAK	DEBIT 32
87	38" LIVE OAK	DEBIT 20
88	38" PINE	DEBIT 20
89	42"-29" LIVE OAK	DEBIT 30
90	58" LIVE OAK	DEBIT 30
91	36" LIVE OAK	DEBIT 20
92	45" LIVE OAK	DEBIT 24
93	48" LIVE OAK	DEBIT 24
TOTAL		DEBIT 742

TREE CREDIT AND DEBIT TOTALS	
TOTAL REMOVAL	DEBIT 420
TOTAL TECHNICAL REMOVAL	DEBIT 742
TOTAL TREE DEBIT	DEBIT 1162
TOTAL TREE CREDIT	CREDIT 1176
NET TREE CREDIT	CREDIT 14

NOTE: TABLE DOES NOT ACCOUNT FOR ALL CREDITABLE TREES ON SITE. TABLE ABOVE ONLY LISTS THE TREE CREDITS REQUIRED TO EQUAL DEBIT TOTAL FOR PLANTED TREES SEE LANDSCAPE PLANS FOR ADDITIONAL DETAILS.

TREE #	TREE TYPE AND SIZE	DEBIT COUNT
88	33" LIVE OAK	CREDIT 16
89	38"-15" LIVE OAK	CREDIT 26
90	37" PINE	CREDIT 20
91	36" PINE	CREDIT 16
92	49" LIVE OAK	CREDIT 28
93	36" PINE	CREDIT 16
94	41" LIVE OAK	CREDIT 20
95	43" LIVE OAK	CREDIT 24
96	39" LIVE OAK	CREDIT 24
97	41"/33" LIVE OAK	CREDIT 36
98	85" LIVE OAK	CREDIT 40
99	28" PINE	CREDIT 10
100	37"/17" PINE	CREDIT 26
101	36" PINE	CREDIT 16
102	42" LIVE OAK	CREDIT 20
103	43" LIVE OAK	CREDIT 24
104	51" LIVE OAK	CREDIT 28
105	63" LIVE OAK	CREDIT 40
106	55" LIVE OAK	CREDIT 28
108	39" LIVE OAK	CREDIT 20
110	43" LIVE OAK	CREDIT 24
111	52" LIVE OAK	CREDIT 28
112	53" LIVE OAK	CREDIT 28
113	51"/34" LIVE OAK	CREDIT 44
114	35" LIVE OAK	CREDIT 16
115	36" PINE	CREDIT 16
116	42" WATER OAK	CREDIT 20
117	60" LIVE OAK	CREDIT 28
118	44" LIVE OAK	CREDIT 24
119	46" LIVE OAK	CREDIT 24
120	21" LAUREL OAK	CREDIT 8
121	24" LAUREL OAK	CREDIT 8
122	46" LAUREL OAK	CREDIT 24
123	38" PECAN	CREDIT 20
124	34" PINE	CREDIT 16
125	59" LIVE OAK	CREDIT 28
126	30" PINE	CREDIT 10
127	25" GUM	CREDIT 10
128	31" PINE	CREDIT 16
129	33" LIVE OAK	CREDIT 16
130	44" LAUREL OAK	CREDIT 24
131	69" LIVE OAK	CREDIT 40
132	64" LIVE OAK	CREDIT 40
133	61" LIVE OAK	CREDIT 40
134	47" LIVE OAK	CREDIT 24
135	31" PINE	CREDIT 16
136	35" PINE	CREDIT 16
141	45" LIVE OAK	CREDIT 24
142	38" LIVE OAK	CREDIT 24
143	36" LIVE OAK	CREDIT 16
144	16"-37" LIVE OAK	CREDIT 26
TOTAL		CREDIT 1176

### CONSTRUCTION SEQUENCE:

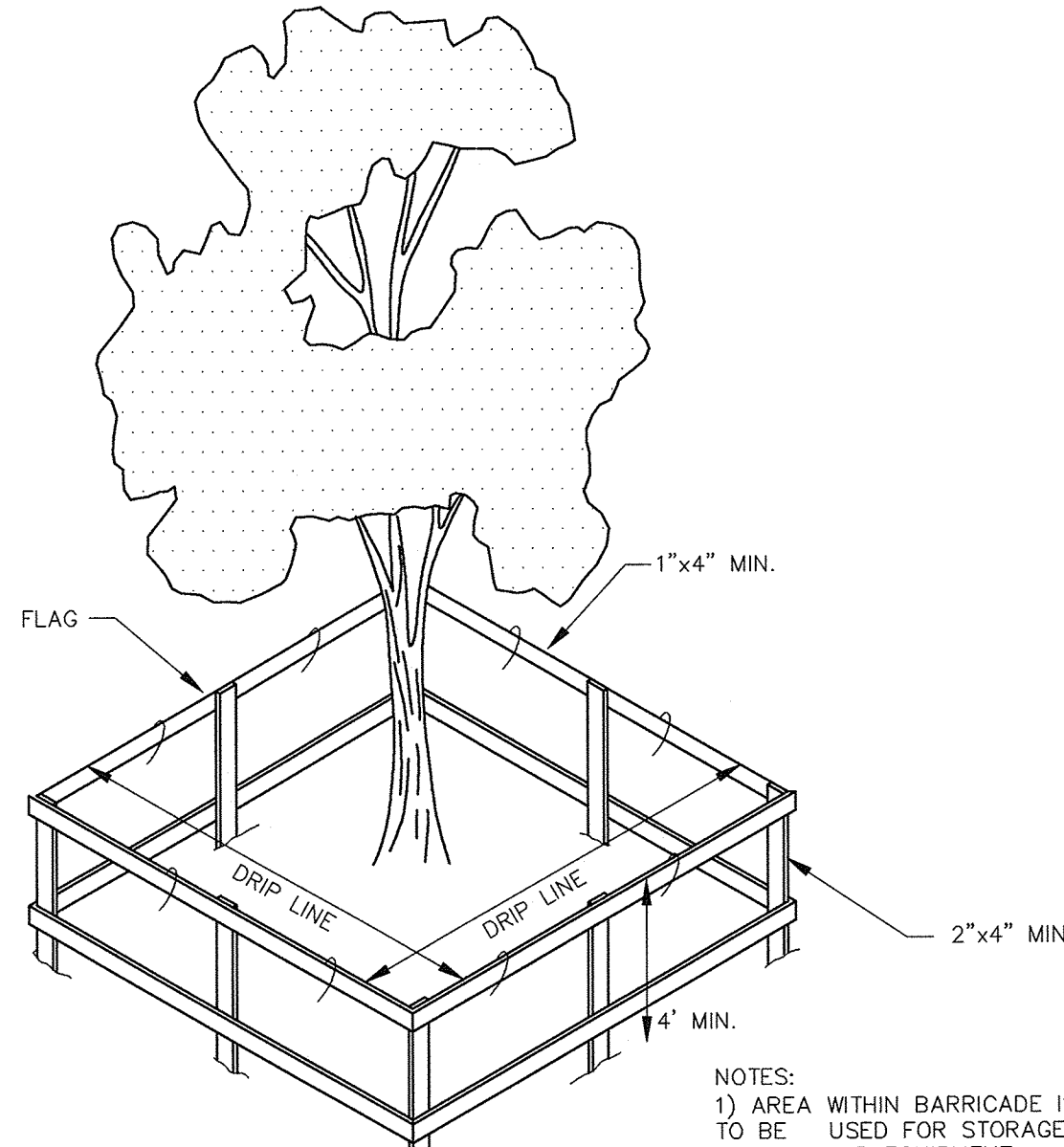
- THE CONTRACTOR SHALL REQUEST AN ON-SITE PRE CONSTRUCTION CONFERENCE WITH LEON COUNTY DEVELOPMENT SUPPORT AND ENVIRONMENTAL MANAGEMENT DEPARTMENT (LCDEM), NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWD), LEON COUNTY PUBLIC WORKS (LCPW), FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) AND ALL UTILITY PROVIDERS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- CLEARLY "FLAG" THE LIMITS OF CONSTRUCTION AND COMPLETE ALL ARBORIST ACTIVITIES INCLUDING TREE PRUNING, ROOT PRUNING AND SOIL FERTILIZATION FOR ALL TECHNICAL TREE REMOVALS.
- THE CONTRACTOR SHALL FIRST CONSTRUCT SEDIMENTATION/EROSION CONTROLS. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE UNTIL THE SEDIMENT CONTROLS HAVE BEEN INSPECTED AND APPROVED BY THE LEON COUNTY ENVIRONMENTAL INSPECTOR.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONSTRUCT STORMWATER FACILITIES. UP SLOPE DEVELOPMENT MAY PROCEED ONLY AFTER THE CONSTRUCTION OF THE DOWNSLOPE SWMPS & RUNOFF COMPENSATION AREAS E & F.
- STABILIZE THE ROAD SURFACE WITH BASE AND ASPHALT.
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN COUNTY'S APPROVAL TO IMPLEMENT THE MAINTENANCE OF TRAFFIC PLAN.
- THE CONTRACTOR SHALL PROVIDE THE AS-BUILT SURVEY TO DESIGN ENGINEER FOR REVIEW AND ACCEPTANCE OF THE FINAL COMPLETION. A-BUILT PLANS/SURVEY SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW 30 DAYS PRIOR TO THE CONTRACTOR'S REQUEST FOR A FINAL INSPECTION FROM LCDEM. CONTRACTOR SHALL ALSO SUBMIT TO LCDEM CERTIFIED AS-BUILTS AND DESIGN ENGINEERS CERTIFICATION STATEMENT 20 DAYS PRIOR REQUEST OF FINAL INSPECTION. ALL AREAS SHALL BE STABILIZED AND LANDSCAPED PRIOR TO ANY REQUEST FOR A FINAL INSPECTION.
- A STORMWATER OPERATING PERMIT APPLICATION AND LANDSCAPE AS-BUILT PLAN WILL BE SUBMITTED TO LCDEM AS PART OF THE AS-BUILT PACKAGE.

### TRAFFIC CONTROL NOTES:

- THIS PROJECT ANTICIPATES THE NEED FOR TRAFFIC CONTROL DEVICES LISTED IN THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY STANDARD INDICES. CONTRACTOR SHALL DEVELOP A TEMPORARY TRAFFIC CONTROL PLAN (TTCP) WHICH SHALL BE APPROVED BY FDOT, DESIGN ENGINEER AND COUNTY ENGINEER PRIOR TO START OF CONSTRUCTION. MUTCD SHALL BE DEVELOPED BY SOMEONE CERTIFIED/QUALIFIED IN ADVANCED MAINTENANCE OF TRAFFIC. THE CONTRACTOR SHALL INSPECT, MAINTAIN AND MODIFY THROUGHOUT THE PROJECT CONSTRUCTION. THE CONTRACTOR'S TTCP SHALL ACCOMPLISH ALL OF THE FOLLOWING:
- CONTRACTOR SHALL MEET TTCP STANDARDS SET BY FDOT INDEX 600
  - PAYMENT FOR ALL MAINTENANCE OF TRAFFIC SHALL BE PER DAY AND INCLUDE ALL ITEMS NECESSARY FOR TEMPORARY TRAFFIC CONTROL OF VEHICULAR USE SHALL INCLUDE BUT NOT BE LIMITED TO BARRIER WALL, TEMPORARY ROAD STABILIZATION, ALTERNATING COMPACTON, FLAGMEN, SIGNAGE AND MESSAGE BOARDS.
  - KEEP AT LEAST TWO (2) 10 FOOT LANES OPEN AT ALL TIMES. ONLY AUXILIARY LANES MAY BE CLOSED. LANES MAY BE NARROWED DURING ACTIVE WORK ZONES ONLY.
  - NO LANE CLOSURES WILL BE ALLOWED ON CCNW (SR 263) DURING PEAK HOURS 6AM - 9AM & 4PM - 7PM.
  - REOPEN ALL LANES DURING INACTIVE WORK ZONES AND TIMES. ALL OPEN LANES SHALL BE STABILIZED FOR PUBLIC PASSAGE. WORKING HOURS WILL NORMALLY BE FROM 8:30 A.M. TO 4:30 P.M., MONDAY THROUGH FRIDAY. HOWEVER, UPON REQUEST OF THE CONTRACTOR, THE ENGINEER OR HIS DESIGNEE, MAY CONSIDER AN ALTERNATIVE TO THESE WORKING HOURS BASED ON THE TIME OF THE YEAR, SITE, WEATHER, AND TRAFFIC CONDITIONS.
  - THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT FROM THE ROADWAY AND THE SHOULDER DURING NON-WORKING HOURS TO ENSURE THE LEAST PRACTICABLE INTERFERENCE WITH TRAFFIC AND PEDESTRIANS. THE CONTRACTOR IS TO PROVIDE THE AREA FOR STORING EQUIPMENT.
  - NO NIGHT WORK SHALL BE PERFORMED UNLESS ADEQUATE LIGHTING IS PROVIDED AND APPROVAL GIVEN BY THE COUNTY ENGINEER OR HIS DESIGNEE FOR FRED GEORGE ROAD AND FDOT FOR CAPITAL CIRCLE NW. IF THE EXISTING LIGHTING IS NOT ADEQUATE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ARTIFICIAL LIGHTING THAT SHALL BE APPROVED BY THE COUNTY ENGINEER OR DESIGNEE.
  - OBSTRUCTIONS AND BARRICADES SHALL BE LIGHTED AT NIGHT AND SUCH LIGHTS SHALL BE KEPT BURNING FROM SUNSET TO SUNRISE. ALL SUCH SIGNING AND TRAFFIC CONTROL WITHIN THE LIMITS OF THE PROJECT SHALL BE DONE IN ACCORDANCE WITH THE ENGINEER OR HIS DESIGNEE, APPLICABLE OSHA REGULATIONS AND MUTCD, PART VI.
  - NO DETOURS PERMITTED.
  - MAINTAIN ACCESS TO ADJOINING PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING STREETS AND PRIVATE ENTRANCES THROUGHOUT PROJECT CONSTRUCTION.
  - EXISTING BICYCLE AND PEDESTRIAN FACILITIES SHALL BE MAINTAINED FOR AT ALL TIMES.
  - EXISTING TRANSIT STOPS SHALL BE MAINTAINED AT ALL TIMES.
  - NOTIFY TRANSIT AND SCHOOL BOARD OF PROPOSED WORK SCHEDULE.
  - THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING, DANGER, AND DETOUR SIGNS SUITABLE AND ADEQUATE LIGHTS, PROVIDE FLAGMEN WHERE NECESSARY TO DIRECT TRAFFIC, AND TAKE ALL OTHER PRECAUTIONS TO PROTECT THE WORK AND THE PUBLIC. STREETS, WHICH ARE CLOSED TO TRAFFIC BY AUTHORITY OF LEON COUNTY, SHALL BE ADEQUATELY BARRICADED AND MARKED WITH WARNING AND DETOUR SIGNS, AND LIGHTS AT ALL INTERSECTIONS AND CROSSINGS ALONG THE DETOURS. STREET CLOSING AND DETOUR ROUTING SHALL BE REQUESTED OF AND RECEIVE APPROVAL FROM THE ENGINEER OR HIS DESIGNEE, PRIOR TO IMPLEMENTATION. THE TEMPORARY DETOUR SHALL BE ADEQUATELY MARKED THROUGHOUT ITS LENGTH. ALL DETOUR ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR IN A SAFE AND PASSABLE CONDITION AT ALL TIMES, AND AT SUCH TIME AS THE DETOUR IS NO LONGER NECESSARY, THE STREETS CONSTITUTING THE DETOUR ROUTE SHALL BE RESTORED TO A CONDITION EQUAL TO THE CONDITION OF SUCH STREETS PRIOR TO THEIR USE FOR DETOURS, ALL TO THE SATISFACTION OF THE ENGINEER OR HIS DESIGNEE.
  - THE CONTRACTOR SHALL NOTIFY THE FDOT PERMITS OFFICE 48 HOURS IN ADVANCE OF ANY REQUIRED LANE CLOSURE FOR THE INTERSECTION OF CAPITAL CIRCLE NW(263) AND FRED GEORGE ROAD. A LANE CLOSURE IS REQUIRED WHEN WORKERS OR EQUIPMENT ARE WORKING WITHIN 2 FEET OF ANY TRAVEL LANE.

### ARBORIST NOTES:

- ALL FERTILIZATION & ROOT PRUNING WILL BE DONE BY A CERTIFIED ARBORIST.
- ROOT PRUNING WILL BE COMPLETED 1-2 DAYS PRIOR TO CONSTRUCTION.
- TREES AFFECTED BY ROOT PRUNING TO BE FERTILIZED AT LEAST 1 MONTH PRIOR TO CONSTRUCTION.
- INSTALL HOG-WIRE FENCE TO PROTECT BANK & TREES FROM EQUIPMENT. A TREE BARRICADE OR HIGH VISIBILITY ORANGE FENCING SHALL BE USED IN ADDITION TO HOG WIRE FENCING.
- SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED AFTER EVERY HEAVY RAINFALL & ACCUMULATED SEDIMENT REMOVED AS NEEDED.
- ADD TYPE IV SILT FENCE TO HOG-WIRE FENCE IN SELECTED AREAS ONLY AND AS NECESSARY TO CONTROL EROSION DURING CONSTRUCTION OR AS REQUIRED BY LEON COUNTY ENVIRONMENTAL INSPECTOR.



NOTES:  
 1) AREA WITHIN BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.  
 2) TREE PROTECTION BARRICADES SHALL BE LOCATED AT THE PERIMETER OF THE CPZ.

### LEGEND

- SCM SET CONCRETE MONUMENT LB NO. 6745 (4"x4")
- SIR SET IRON ROD LB NO. 6745 (5/8")
- SNC SET NAIL & CAP LB NO. 6745
- REF.PT REFERENCE POINT LB NO. 6745
- WIT.PT WITNESS POINT LB NO. 6745
- FCM FOUND CONCRETE MONUMENT (4"x4")
- FTCM FOUND TERRA COTTA MONUMENT
- FIR FOUND IRON ROD
- FNC FOUND NAIL & CAP
- FIP FOUND IRON PIPE
- FPP FOUND PINCH PIPE
- PCP PERMANENT CONTROL POINT
- PRM PERMANENT REFERENCE MONUMENT
- LBS LICENSED BUSINESS NO. NUMBER
- BM BENCH MARK
- TBM TEMPORARY BENCH MARK
- NAD NORTH AMERICAN DATUM, 1983
- NAVD NORTH AMERICAN VERTICAL DATUM, 1988
- NGVD NATIONAL GEODETIC VERTICAL DATUM, 1929
- PES POOLE ENGINEERING & SURVEYING
- DOT STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
- COT CITY OF TALLHASSEE
- ALTA AMERICAN LAND TITLE ASSOCIATION
- ACSM AMERICAN CONGRESS ON SURVEYING & MAPPING
- NSPS NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
- (S) SURVEY INFORMATION
- (D) DEED INFORMATION
- (P) PLATTED DATA
- (C) POINT OF COMMENCEMENT
- POB POINT OF BEGINNING
- SEC. SECTION
- T TOWNSHIP
- R RANGE
- O.R. OFFICIAL RECORDS
- Δ CENTRAL ANGLE
- R RADIUS
- L LENGTH
- CH CHORD BEARING & DISTANCE
- PI POINT OF INTERSECTION
- PT POINT OF TANGENCY
- POBT POINT OF TANGENT
- PC POINT OF CURVE
- PCC POINT OF COMPOUND CURVE
- PRC POINT OF REVERSE CURVE
- R/W RIGHT-OF-WAY
- CL CENTER LINE
- R/R RAILROAD
- SR STATE ROAD
- SRD STATE ROAD DEPARTMENT
- EL ELEVATION
- FFE FINISH FLOOR ELEVATION
- INV INVERT ELEVATION
- OHV OVERHEAD WIRE
- UP UTILITY POLE
- TELE TELEPHONE
- CONC CONCRETE
- CO CLEAN OUT
- WM WATER METER
- WV WATER VALVE
- FH FIRE HYDRANT
- GV GAS VALVE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- HDPE HIGH DENSITY POLYETHYLENE
- SSMH SANITARY SEWER MANHOLE
- SDMH STORM DRAIN MANHOLE
- CLF CHAIN LINK FENCE
- MB MAIL BOX
- C-PED CABLE PEDESTAL
- T-PED TELEPHONE PEDESTAL
- SS SANITARY SEWER LINE
- W WATER MAIN
- 18" CMP 18" CORRUGATED METAL PIPE
- OT OVERHEAD TELEPHONE
- OE OVERHEAD ELECTRIC LINE
- UE UNDERGROUND ELECTRIC LINE
- UT UNDERGROUND TELEPHONE LINE
- Gas UNDERGROUND GAS LINE
- TV UNDERGROUND CABLE TELEVISION LINE
- FO UNDERGROUND FIBER OPTIC CABLE LINE
- X EXISTING FENCE
- X EXISTING WETLAND LINE
- TPB TREE PROTECTION BARRICADE (TPB)
- RIGHT OF WAY/PROPERTY LINE
- LIMITS OF CONSTRUCTION
- SILTFENCE
- INSTALL HAY BALE
- INSTALL HAY BALE WITH SILT FENCE
- ⊗ INDICATES TREES TO BE REMOVED
- ⊙ INDICATES TREES TECHNICALLY REMOVED
- TREE SIZE AND TYPE
- TREE TRUNK

### SURVEY NOTES:

- SURVEY COMPLETED BY POOLE ENGINEERING & SURVEYING
- ALL ELEVATIONS AND VERTICAL DATUM IS NAVD 88.
- ALL HORIZONTAL DATUM IS STATE PLANE
- PROPERTY LINES ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE RIGHT OF WAY PRIOR TO CONSTRUCTION COMMENCEMENT.

LEON COUNTY DEPARTMENT OF PUBLIC WORKS

2280 MICCOSUKEE ROAD  
TALLHASSEE, FL 32308  
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**FRED GEORGE BASIN GREENWAY EMP SUBMITTAL**

LEON COUNTY, FLORIDA

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**DRMP**

ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

Certificate of Authorization No. 2648  
1435 East Piedmont Drive, Suite 210  
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BRYANT KING  
P.E.  
Florida Engineer # 1994

PROJECT NO.: 10-0547.004

SCALE: NONE

DATE: 08/01/2014

DRAWING: 3







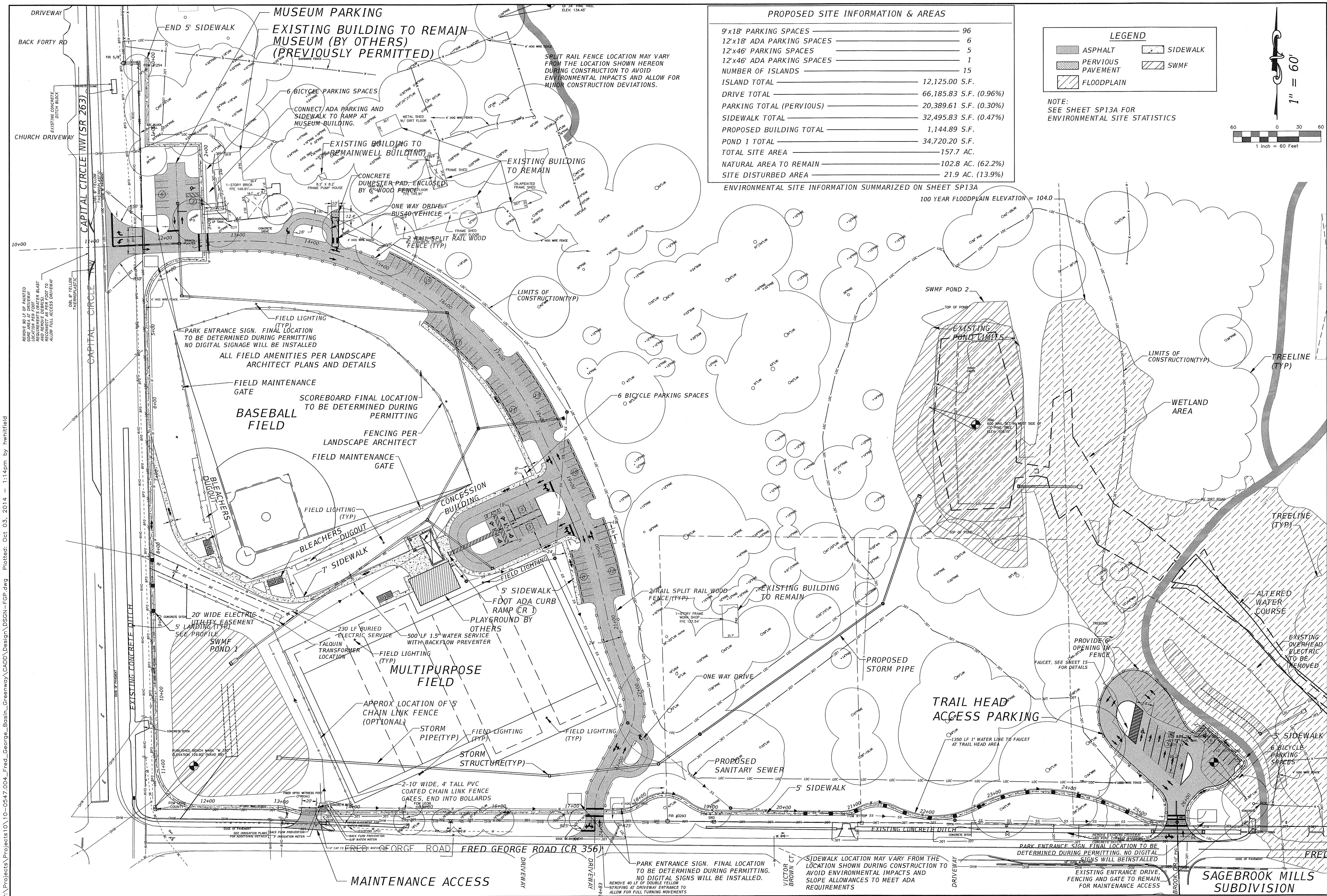








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**PROPOSED SITE INFORMATION & AREAS**

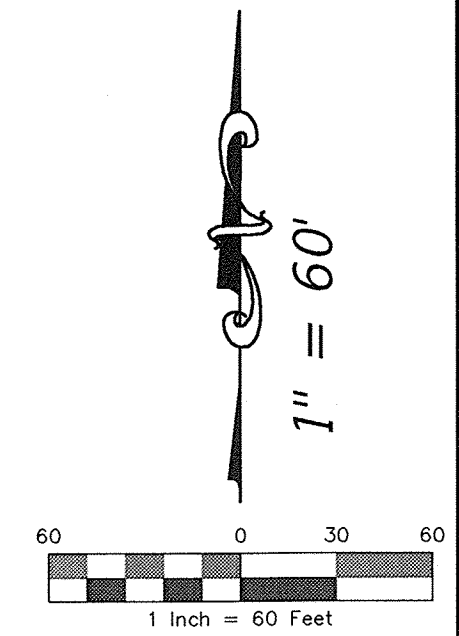
9'x18' PARKING SPACES	96
12'x18' ADA PARKING SPACES	6
12'x46' PARKING SPACES	5
12'x46' ADA PARKING SPACES	1
NUMBER OF ISLANDS	15
ISLAND TOTAL	12,125.00 S.F.
DRIVE TOTAL	66,185.83 S.F. (0.96%)
PARKING TOTAL (PERVIOUS)	20,389.61 S.F. (0.30%)
SIDEWALK TOTAL	32,495.83 S.F. (0.47%)
PROPOSED BUILDING TOTAL	1,144.89 S.F.
POND 1 TOTAL	34,720.20 S.F.
TOTAL SITE AREA	157.7 AC.
NATURAL AREA TO REMAIN	102.8 AC. (62.2%)
SITE DISTURBED AREA	21.9 AC. (13.9%)

ENVIRONMENTAL SITE INFORMATION SUMMARIZED ON SHEET SP13A

**LEGEND**

ASPHALT	SIDEWALK
PERVIOUS PAVEMENT	SWMF
FLOODPLAIN	

NOTE:  
SEE SHEET SP13A FOR ENVIRONMENTAL SITE STATISTICS



**REVISIONS**

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: [ ]  
DRAWN BY: [ ]  
CHECKED BY: [ ]  
APPROVED BY: [ ]

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LEON COUNTY, FLORIDA

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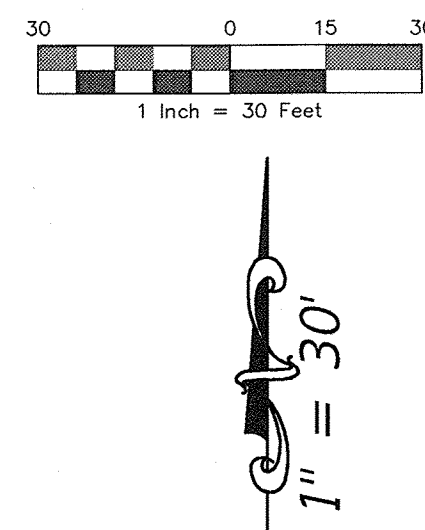
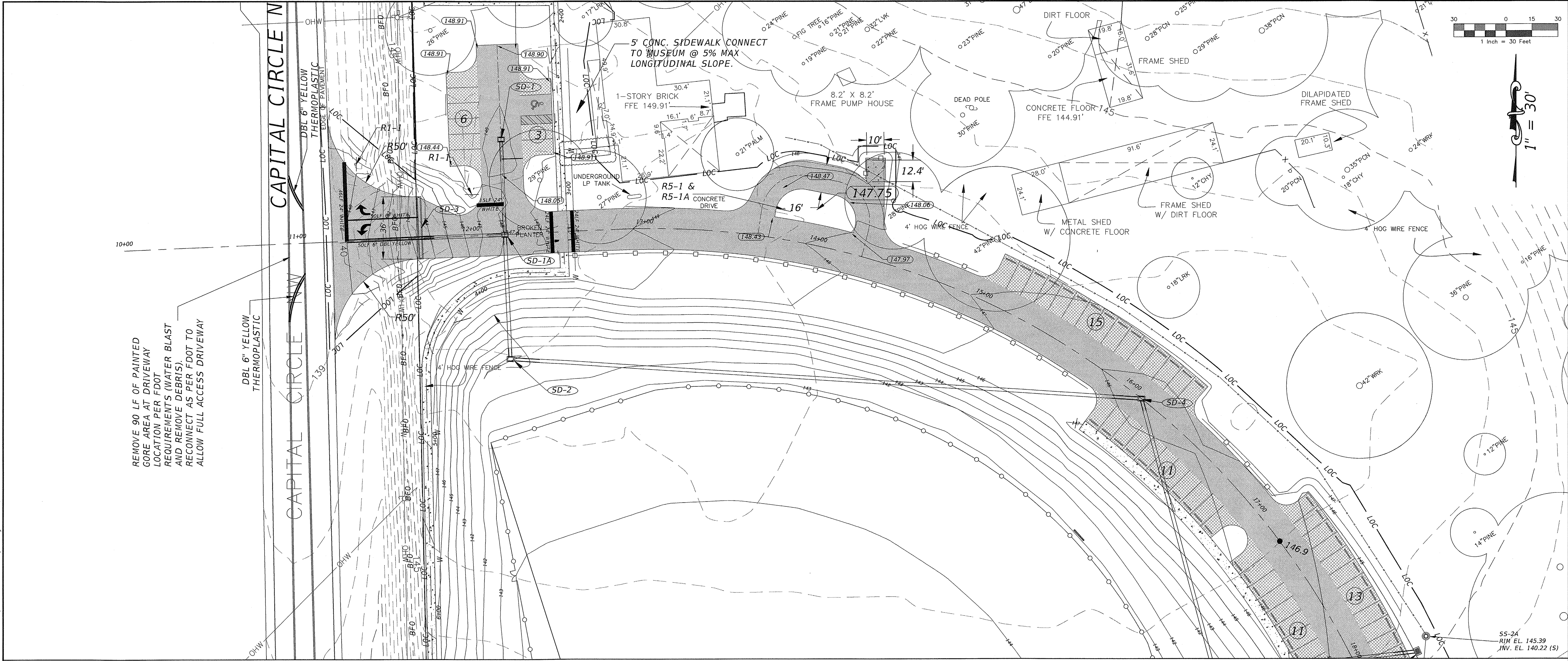
Bryant King, P.E.  
Florida Engineer # 51994  
PROJECT NO.: 10-0547.004  
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DATE: 07/11/14  
DRAWING: 6



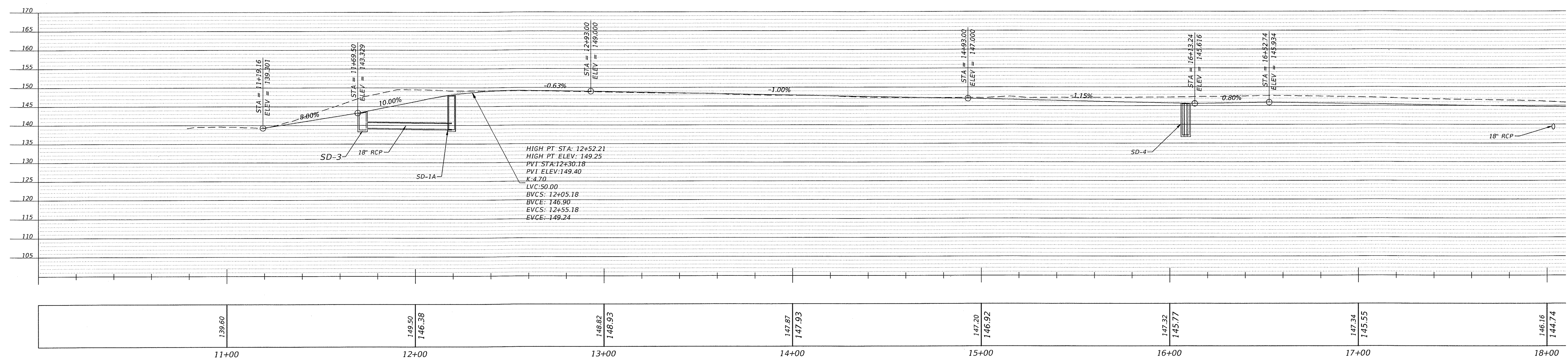




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REMOVE 90 LF OF PAINTED GORE AREA AT DRIVEWAY LOCATION PER FDOT REQUIREMENTS (WATER BLAST AND REMOVE DEBRIS). RECONNECT AS PER FDOT TO ALLOW FULL ACCESS DRIVEWAY



139.60	149.50	148.82	147.87	147.20	147.32	147.34	146.16
11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00

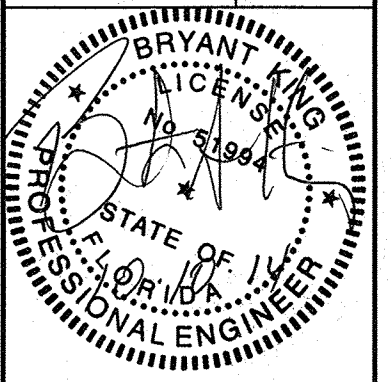
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1:30 H  
1:15 V

NO.	DATE	DESCRIPTION	BY

DESIGNED BY: [Blank]  
DRAWN BY: [Blank]  
CHECKED BY: [Blank]  
APPROVED BY: [Blank]

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ROADWAY PLAN AND PROFILE  
**FRED GEORGE BASIN GREENWAY EMP SUBMITTAL**  
LEON COUNTY, FLORIDA

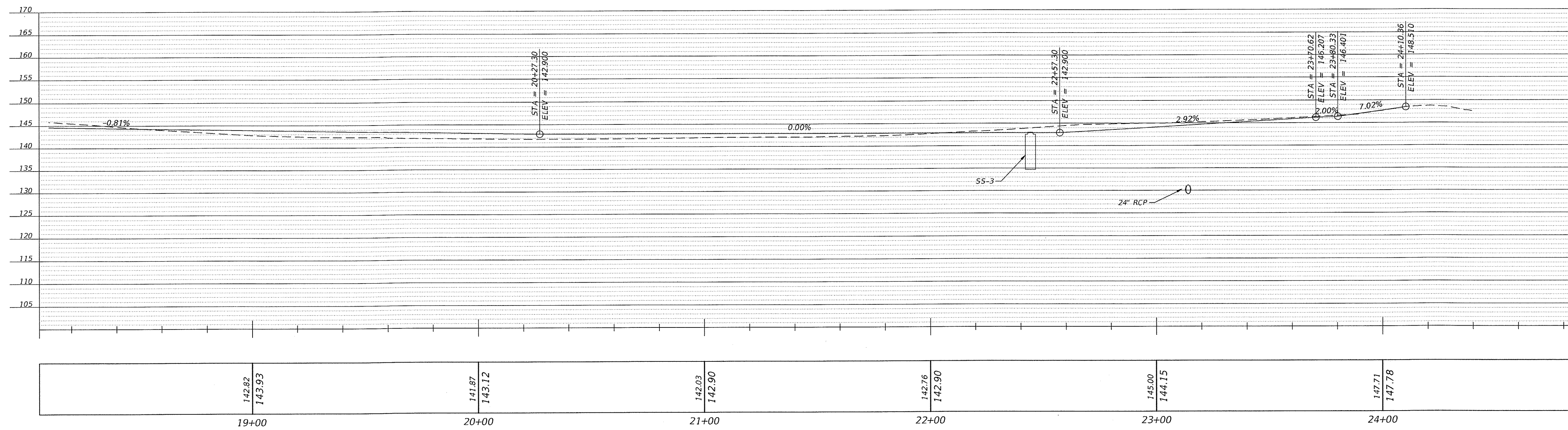
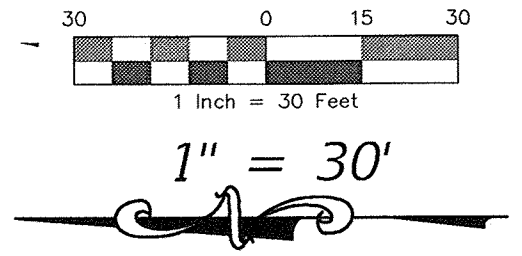
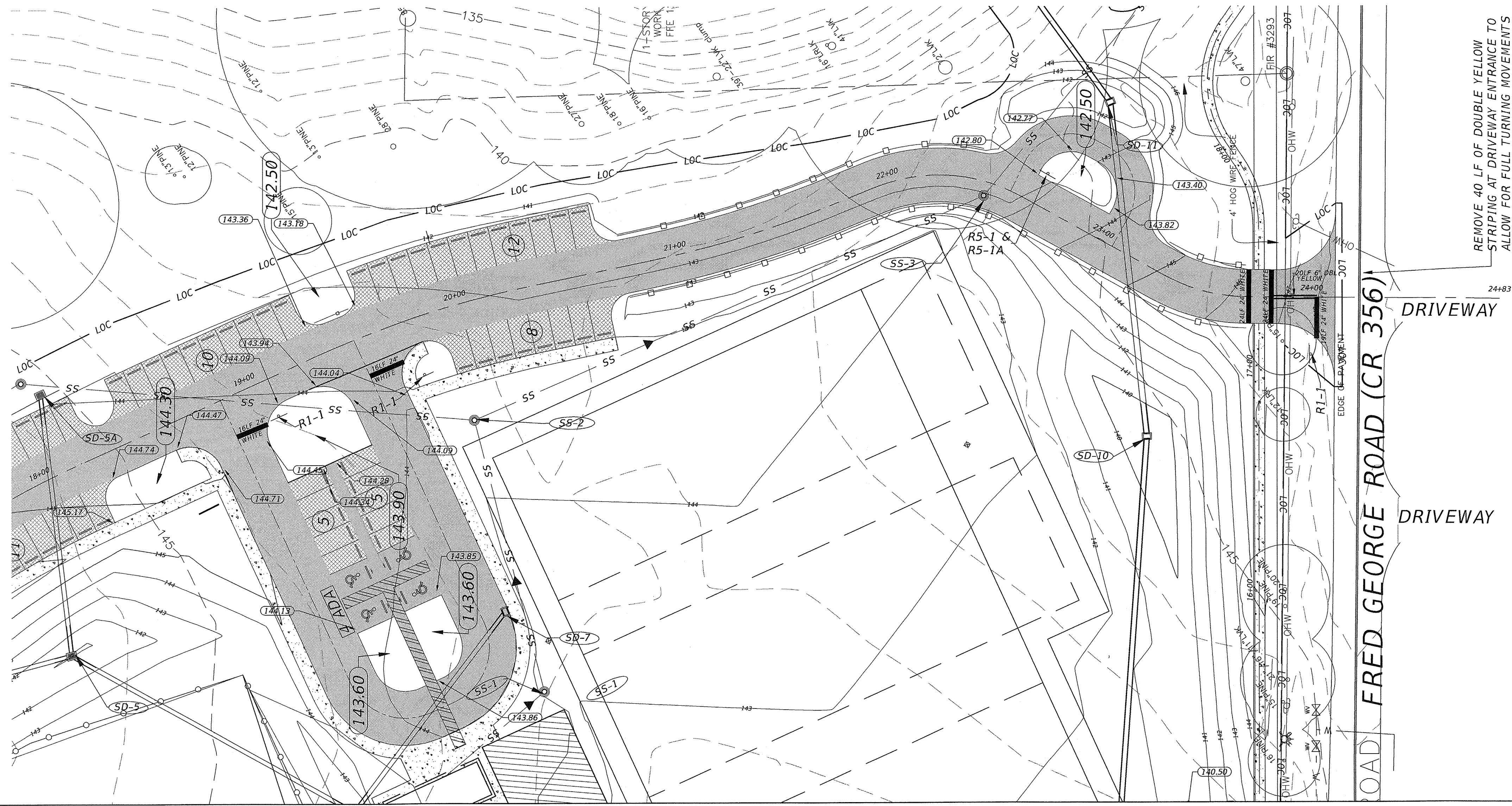


Bryant King, P.E.  
Florida Engineer # 51994  
PROJECT NO: 10-0547.004  
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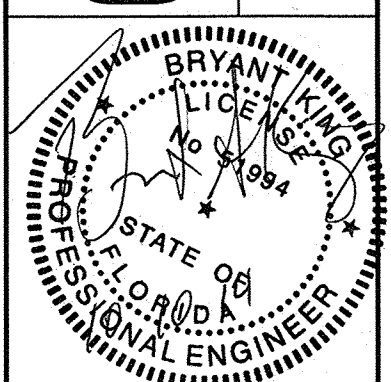


NO.	DATE	DESCRIPTION	BY

DESIGNED BY  
DRAWN BY  
CHECKED BY  
APPROVED BY

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TALLAHASSEE, FL 32308  
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ROADWAY PLAN AND PROFILE  
**FRED GEORGE BASIN GREENWAY EMP SUBMITTAL**  
LEON COUNTY, FLORIDA



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Florida Engineer # 51994  
PROJECT NO.: 10-0547.004  
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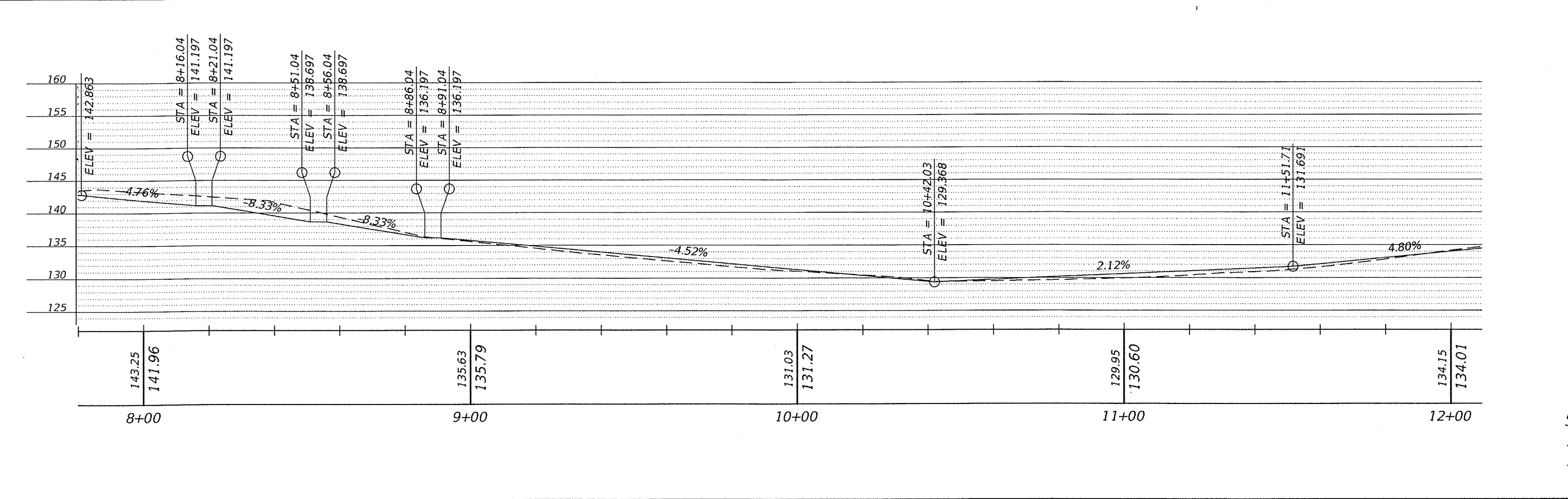
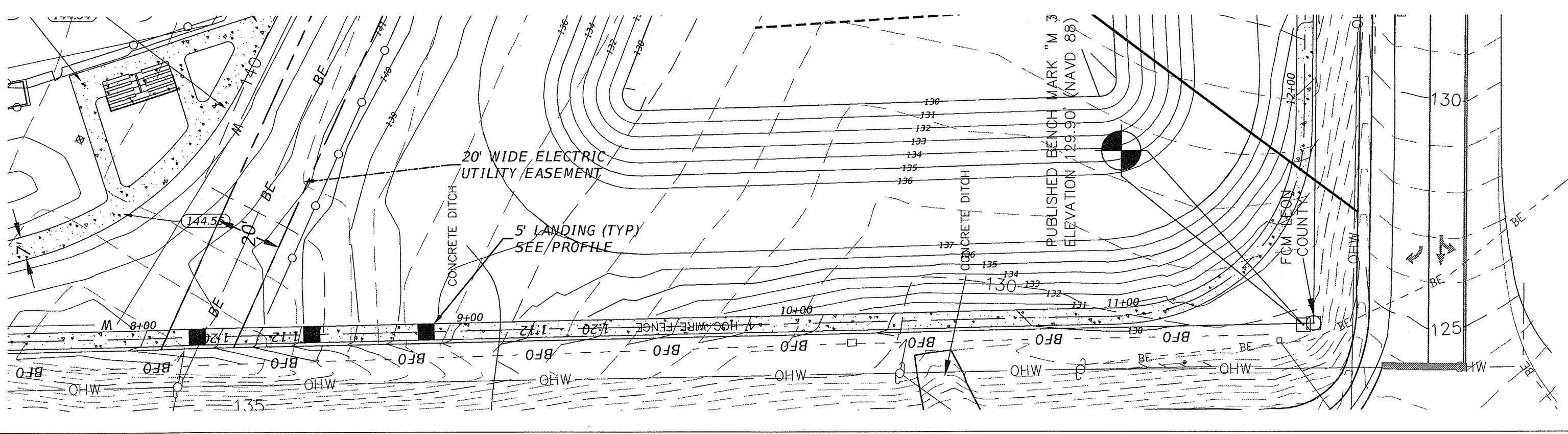
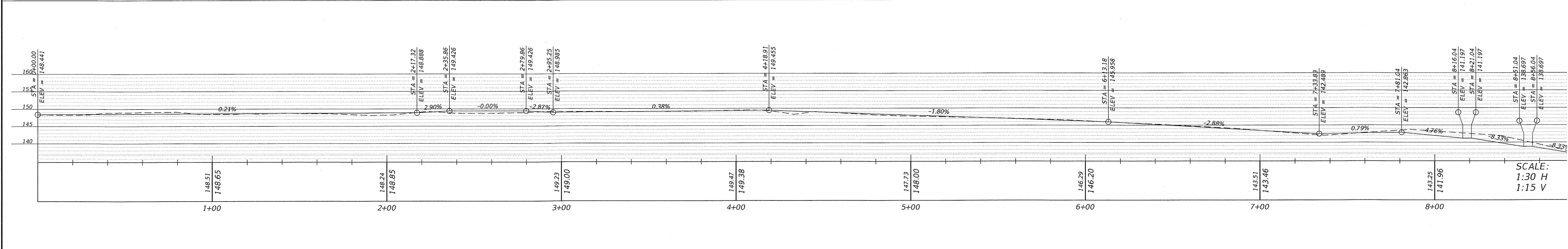
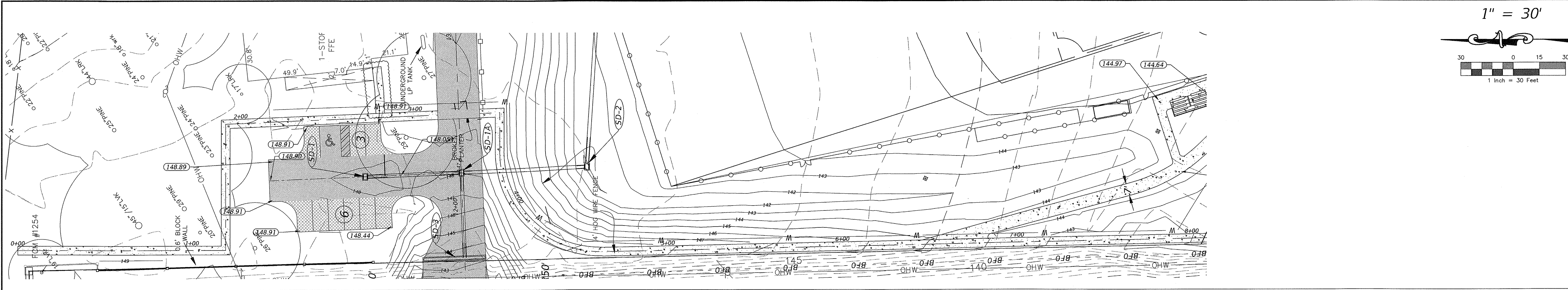
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SCALE:  
1:30 H  
1:15 V

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE



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NOTE:  
ON ANY SIDEWALK WITH  
SLOPES GREATER THAN 1:20  
A HANDRAIL MUST BE  
INSTALLED. HANDRAIL  
SHALL BE PER DETAIL ON  
SHEET 18. THE HANDRAIL  
SHALL MEET ALL  
REQUIREMENTS OF THE FBC  
2010, CHAPTER 11,  
ACCESSIBILITY.

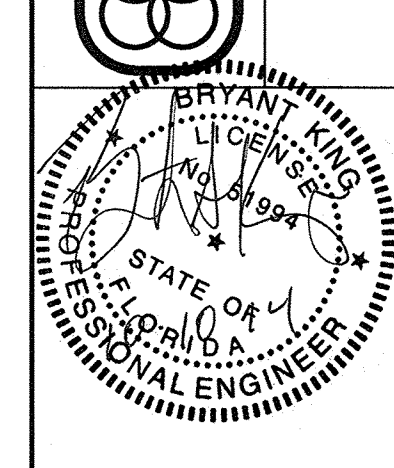
SCALE:  
1:30 H  
1:15 V

DESIGNED BY	DATE	DESCRIPTION	BY
EWG			
DRAWN BY			
CHECKED BY			
APPROVED BY			

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
PHONE (850) 606-1500  
FAX (850) 606-1501

**SIDEWALK PLAN AND PROFILE**  
**FRED GEORGE BASIN GREENWAY**  
**BASIN GREENWAY**  
**EMP SUBMITTAL**  
LEON COUNTY, FLORIDA

**DRMP**  
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
Certificate of Authorization No. 2648  
1435 East Piedmont Drive, Suite 210  
Tallahassee, Florida 32309  
Phone: 850.562.9600 WWW.DRMP.COM



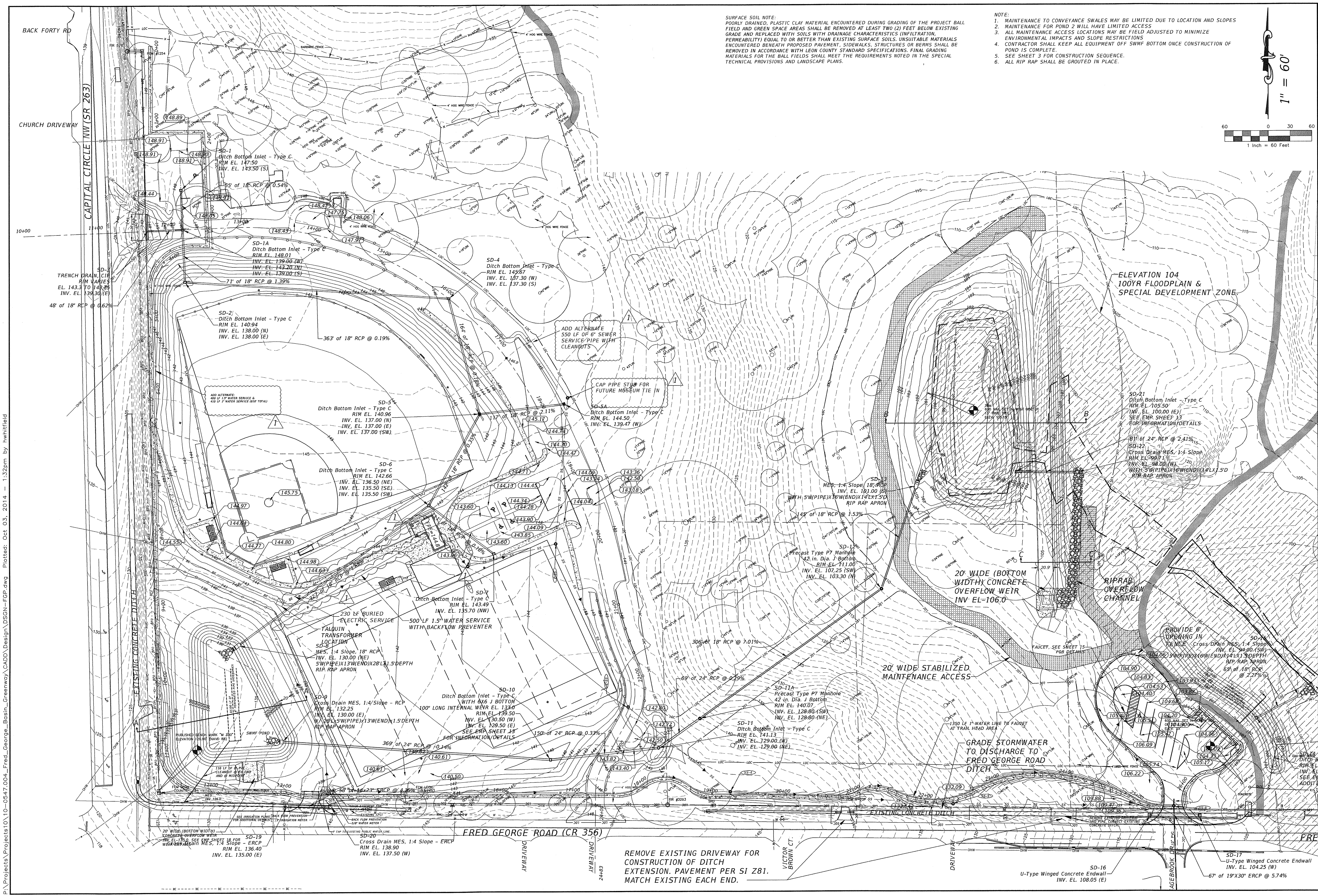
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SCALE:	AS SHOWN
DATE:	07/11/2014
DRAWING:	10

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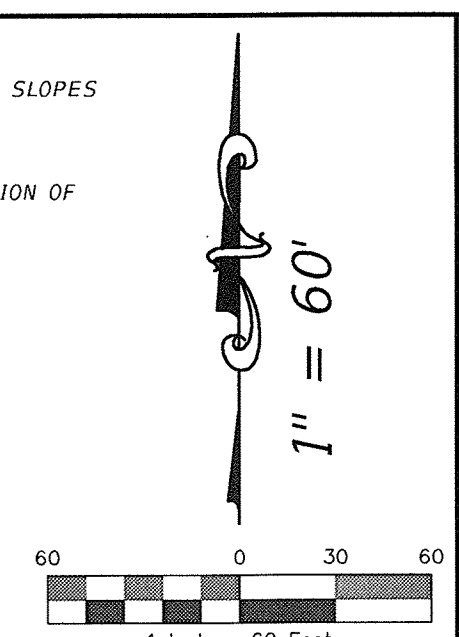






**SURFACE SOIL NOTE:**  
 POORLY DRAINED, PLASTIC CLAY MATERIAL ENCOUNTERED DURING GRADING OF THE PROJECT BALL FIELD AND GREEN SPACE AREAS SHALL BE REMOVED AT LEAST TWO (2) FEET BELOW EXISTING GRADE AND REPLACED WITH SOILS WITH DRAINAGE CHARACTERISTICS (INFILTRATION PERMEABILITY) EQUAL TO OR BETTER THAN EXISTING SURFACE SOILS. UNSUITABLE MATERIALS ENCOUNTERED BENEATH PROPOSED PAVEMENT, SIDEWALKS, STRUCTURES OR BERMS SHALL BE REMOVED IN ACCORDANCE WITH LEON COUNTY STANDARD SPECIFICATIONS. FINAL GRADING MATERIALS FOR THE BALL FIELDS SHALL MEET THE REQUIREMENTS NOTED IN THE SPECIAL TECHNICAL PROVISIONS AND LANDSCAPE PLANS.

**NOTE:**  
 1. MAINTENANCE TO CONVEYANCE SWALES MAY BE LIMITED DUE TO LOCATION AND SLOPES  
 2. MAINTENANCE FOR POND 2 WILL HAVE LIMITED ACCESS  
 3. ALL MAINTENANCE ACCESS LOCATIONS MAY BE FIELD ADJUSTED TO MINIMIZE ENVIRONMENTAL IMPACTS AND SLOPE RESTRICTIONS  
 4. CONTRACTOR SHALL KEEP ALL EQUIPMENT OFF SWMF BOTTOM ONCE CONSTRUCTION OF POND IS COMPLETE  
 5. SEE SHEET 3 FOR CONSTRUCTION SEQUENCE.  
 6. ALL RIP RAP SHALL BE GROUTED IN PLACE.

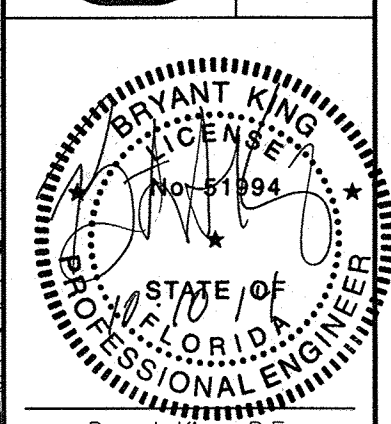


REVISIONS	
NO.	DESCRIPTION
1	09/24/2014

DESIGNED BY: [Blank]  
 DRAWN BY: [Blank]  
 CHECKED BY: [Blank]  
 APPROVED BY: [Blank]

**LEON COUNTY DEPARTMENT OF PUBLIC WORKS**  
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PROJECT NO.: 10-0547.004  
 SCALE: AS SHOWN  
 DATE: 07/11/2014  
 DRAWING: 12

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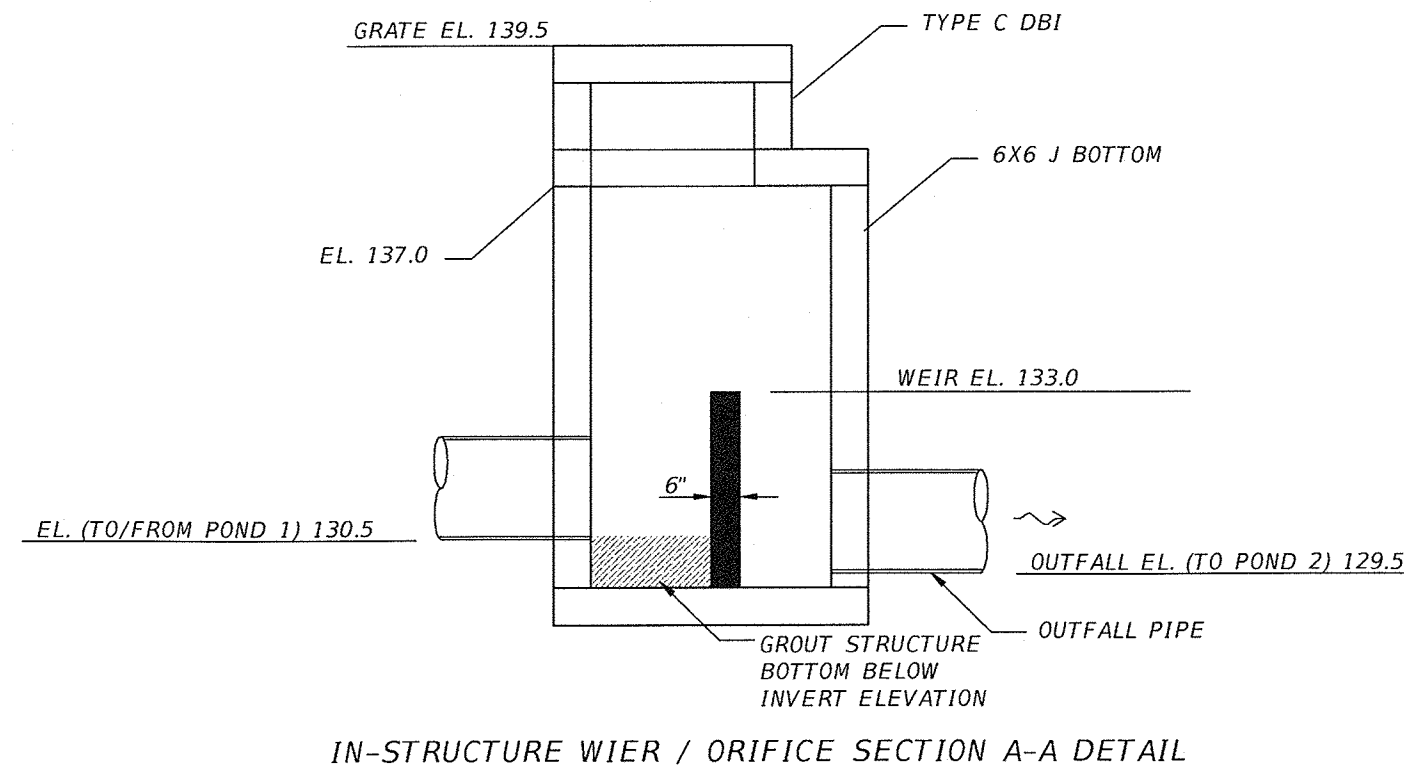
REMOVE EXISTING DRIVEWAY FOR CONSTRUCTION OF DITCH EXTENSION. PAVEMENT PER SI Z81. MATCH EXISTING EACH END.

SD-16 U-Type Winged Concrete Endwall INV. EL. 108.05 (E)  
 SD-17 U-Type Winged Concrete Endwall INV. EL. 104.25 (W)  
 SD-18 67 of 19"x30" ERCP @ 5.74%



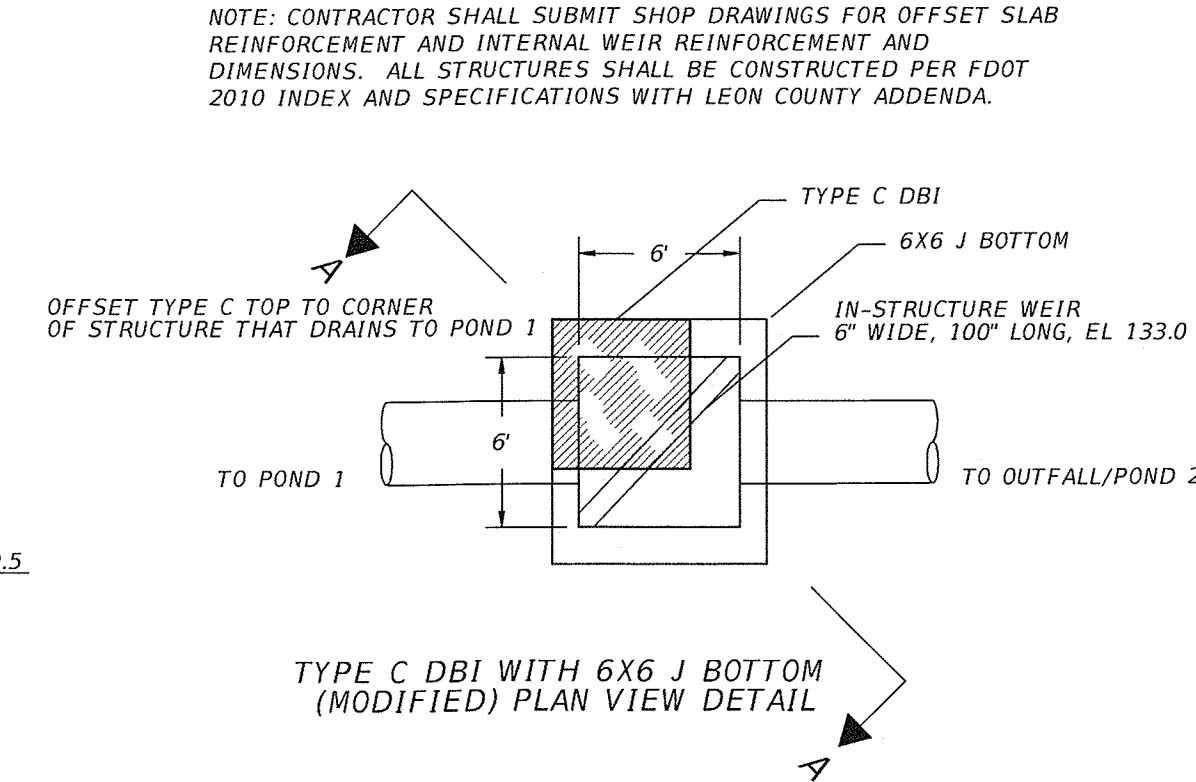






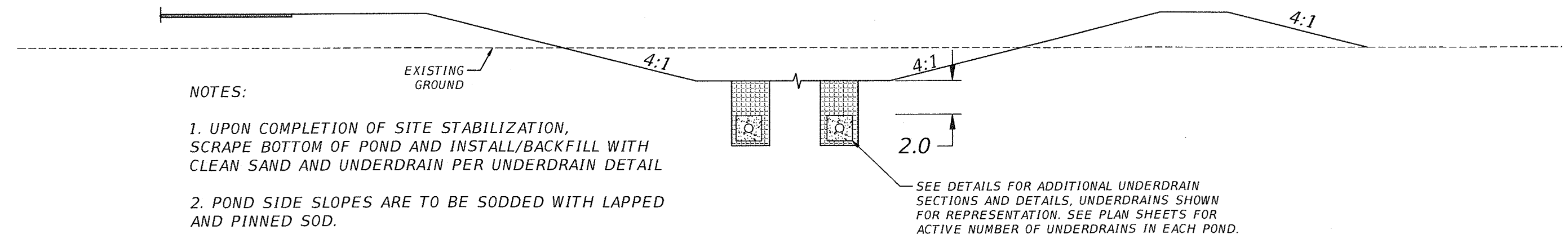
SD-10 STORM STRUCTURE DETAILS

N.T.S.



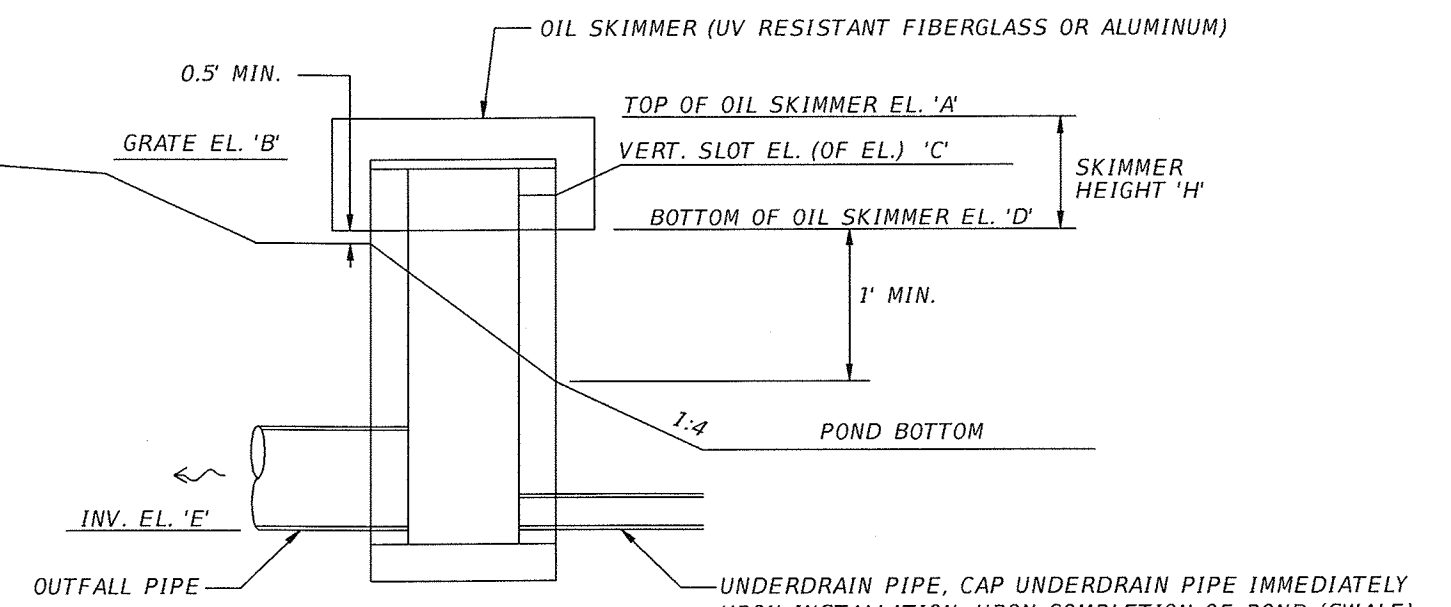
TYPE C DBI WITH 6X6 J BOTTOM (MODIFIED) PLAN VIEW DETAIL

NOTE: CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR OFFSET SLAB REINFORCEMENT AND INTERNAL WEIR REINFORCEMENT AND DIMENSIONS. ALL STRUCTURES SHALL BE CONSTRUCTED PER FDOT 2010 INDEX AND SPECIFICATIONS WITH LEON COUNTY ADDENDA.



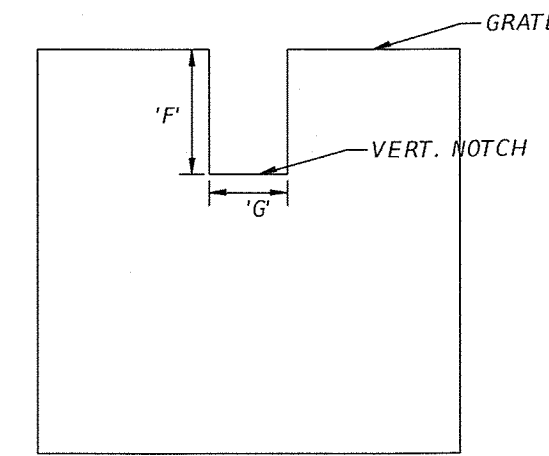
POND UNDERDRAIN SECTION

N.T.S.



DBI (MODIFIED TYPE C & D) SECTION A-A DETAIL

ALL DBI INLETS ARE PER FDOT SI 232, USE RETICULINE GRATE IN ALL INLETS

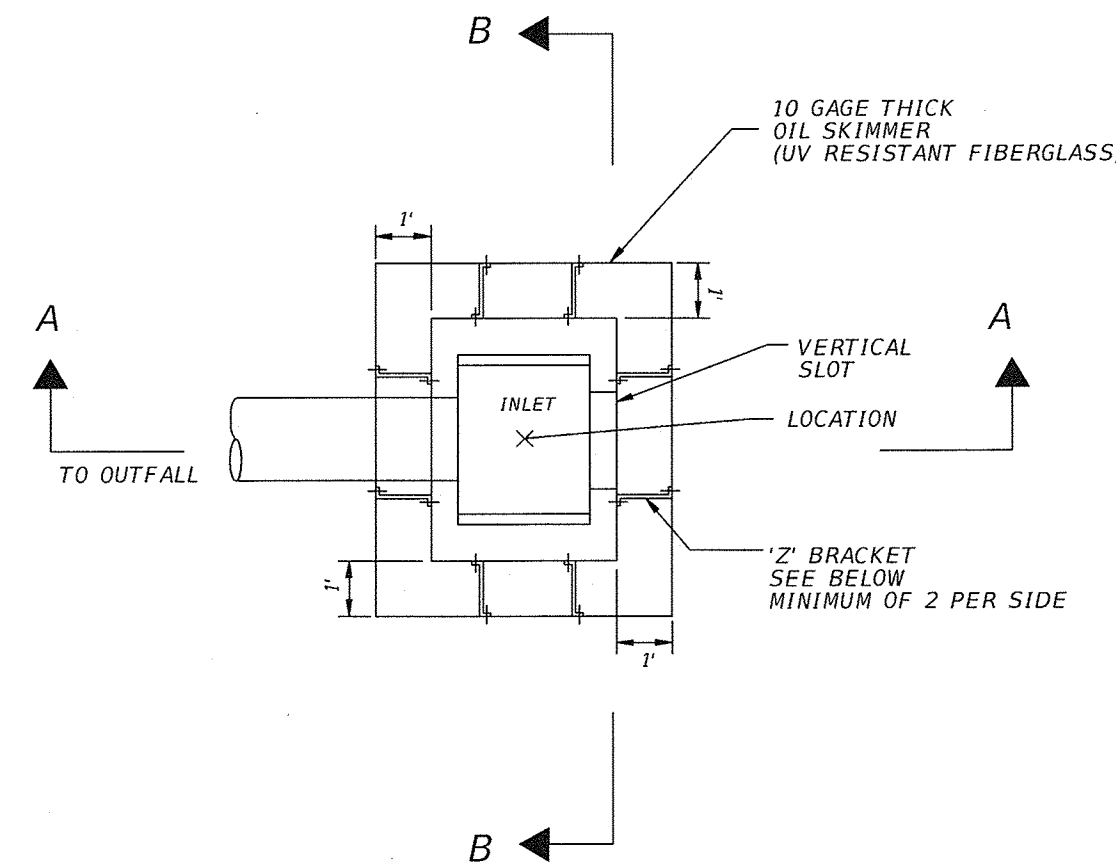


SECTION B-B

N.T.S.

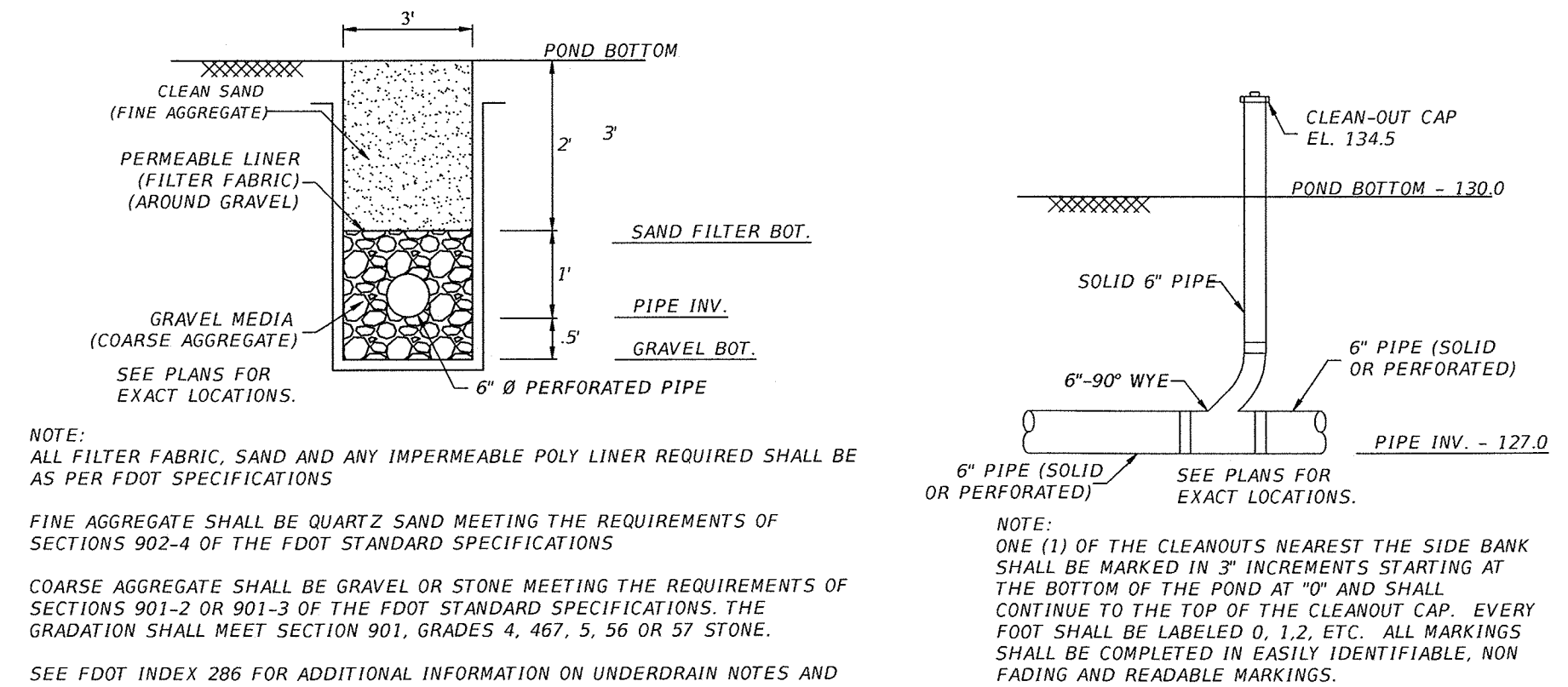
TYPE 1

N.T.S.



DBI (MODIFIED TYPE C & D) PLAN VIEW DETAIL

N.T.S.



UNDERDRAIN TYPICAL SECTION

N.T.S.

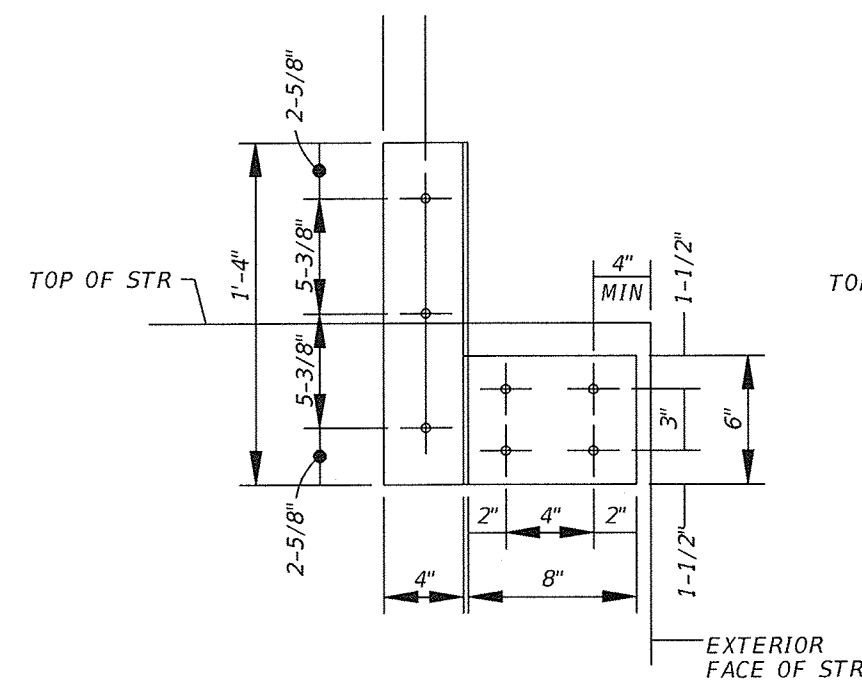
CLEANOUT TYPICAL SECTION

N.T.S.

THESE DETAILS APPLY TO POND 1 AND THE TRAILHEAD PARKING AREA SWALE UNDERDRAINS.

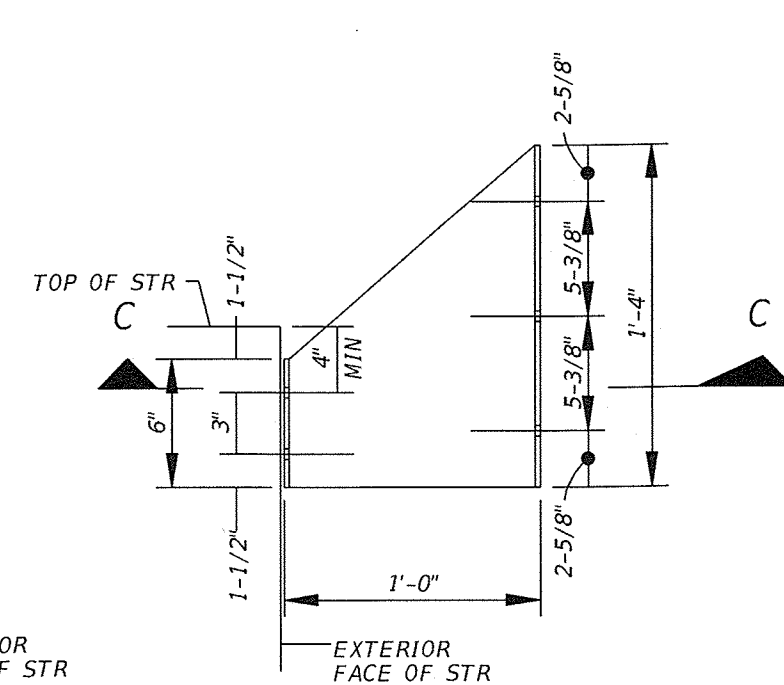
STRUCT ID	INLET TYPE	POND ID	PIPE SIZE	A	B	C	D	E	F (IN)	G (IN)	H (FT)	REMARKS
SD-21	C	2	24"	106.0	105.5	103.0	102.5	100	30	12	3.5	ONE SLOT IN 3'-1" SIDE, OPPOSITE OUTFALL PIPE
SD-14	C	SWALE	18"	101	100.5	-	100	96.0	-	-	-	NO SLOT, TIE UNDERDRAIN IN AT ELEVATION @ EL. 96.0

NOTE: ALL OF THE STRUCTURES NOTED ABOVE SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT SPECIFICATIONS AND STANDARD INDICES (2010 EDITION) FOR ADDITIONAL INFORMATION ON ALL PROPOSED STRUCTURES SEE FDOT DETAILS PROVIDED IN THE STANDARD INDEX



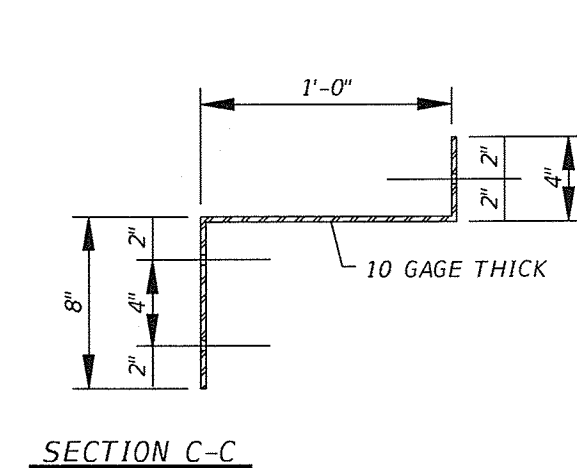
FRONT VIEW

N.T.S.



SIDE VIEW

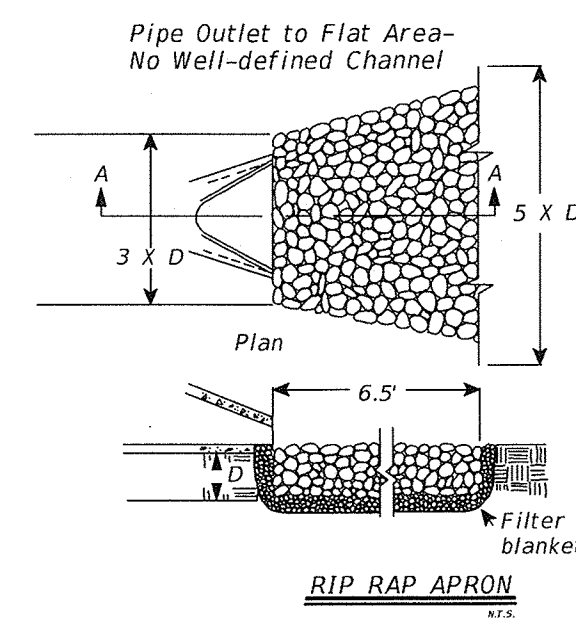
N.T.S.



SECTION C-C

N.T.S.

ALL SKIMMERS PER THESE DETAILS AND FDOT SI 240



RIP RAP APRON

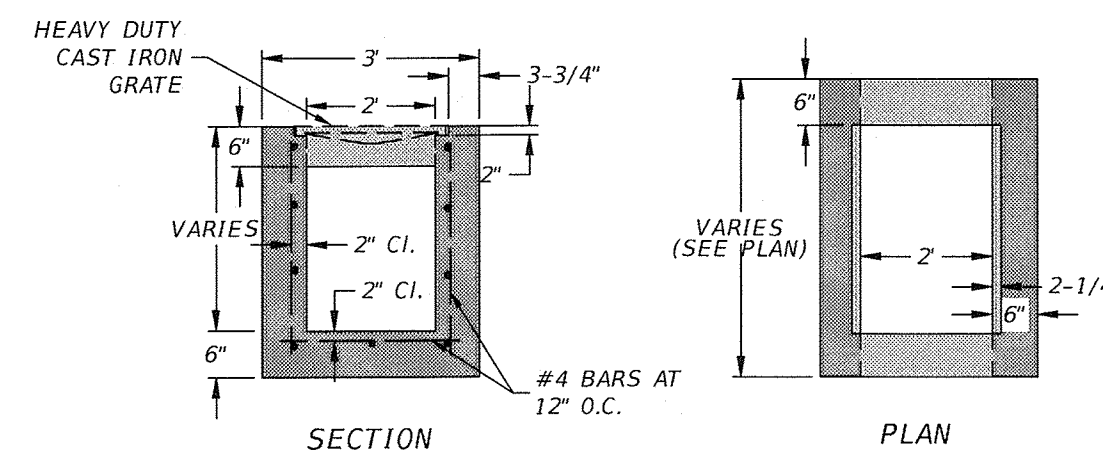
N.T.S.

NOTES:

THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:

- EOS IS NOT LARGER THAN U.S. 40 (MAX)
- TENSILE STRENGTH = 200LB
- BURSTING STRENGTH = 500LB
- PUNCTURE RESISTANCE = 100LB
- GRAB ELONGATION = 65LB

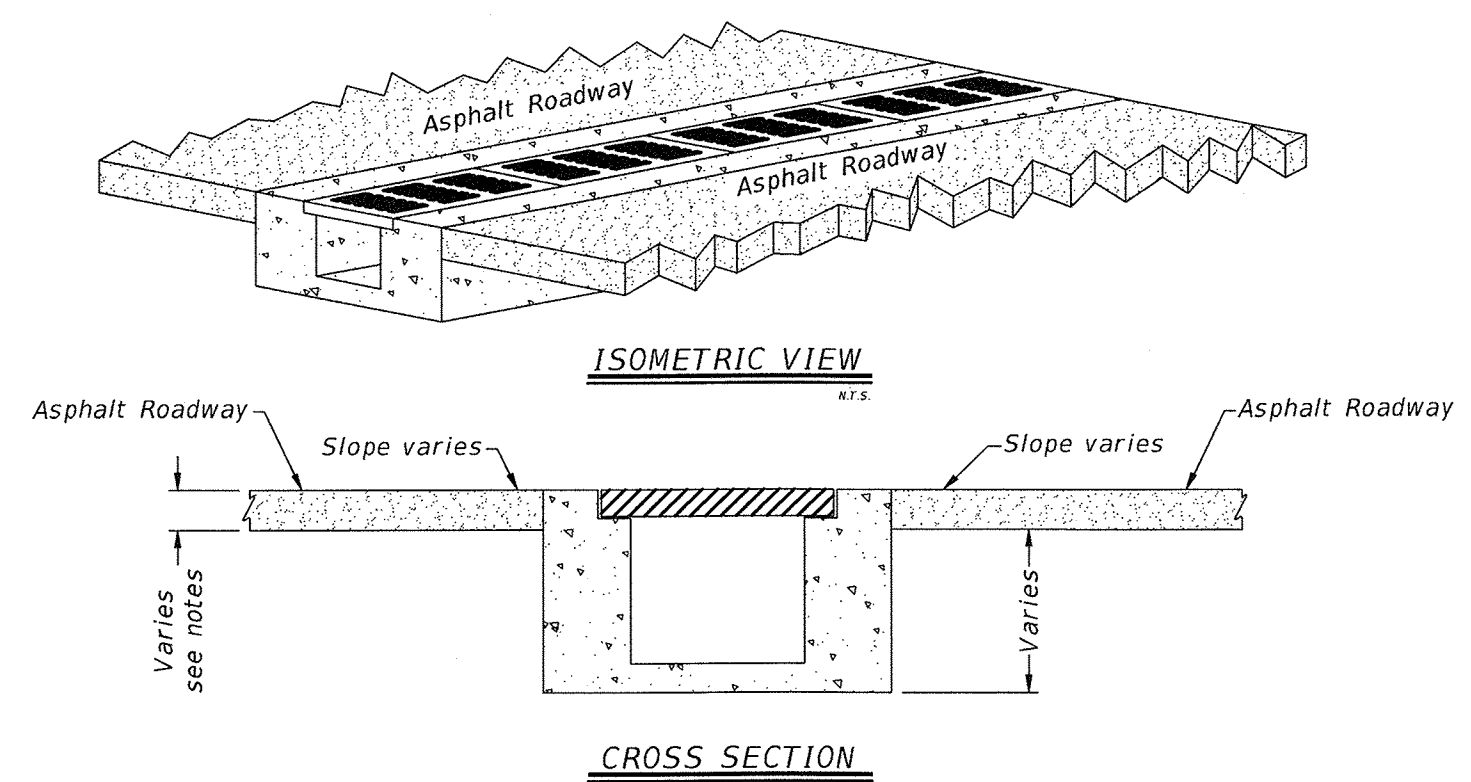
CONFORM TO ASTM D-1682 OR ASTM D-177  
SEE PLAN SHEETS FOR ACTUAL DIMENSIONS FOR RIP RAP APRONS



TYPICAL TRENCH DRAIN DETAIL

N.T.S.

ALL CONSTRUCTION TO BE AS PER FDOT TYPE C DBI, WIDTH SHALL BE MODIFIED



ISOMETRIC VIEW

N.T.S.

CROSS SECTION

N.T.S.

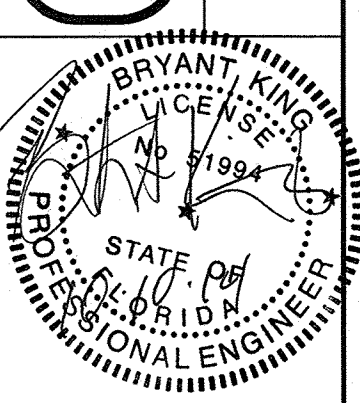
- Notes:
- Dimensions of concrete are typical ~ each side.
  - Concrete is 3000 PSI (min).
  - Saw cut existing asphalt drives at 5' beyond edge of proposed trench.
  - Saw cut concrete drives at 5' beyond edge of proposed trench or next joint if joint is within 10'.
  - See trench drain detail for dimensions.

NO.	DATE	DESCRIPTION	BY

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
PHONE (850) 606-1500  
FAX (850) 606-1501

STORMWATER DETAILS  
FRED GEORGE  
BASIN GREENWAY  
EMP SUBMITTAL  
LEON COUNTY, FLORIDA

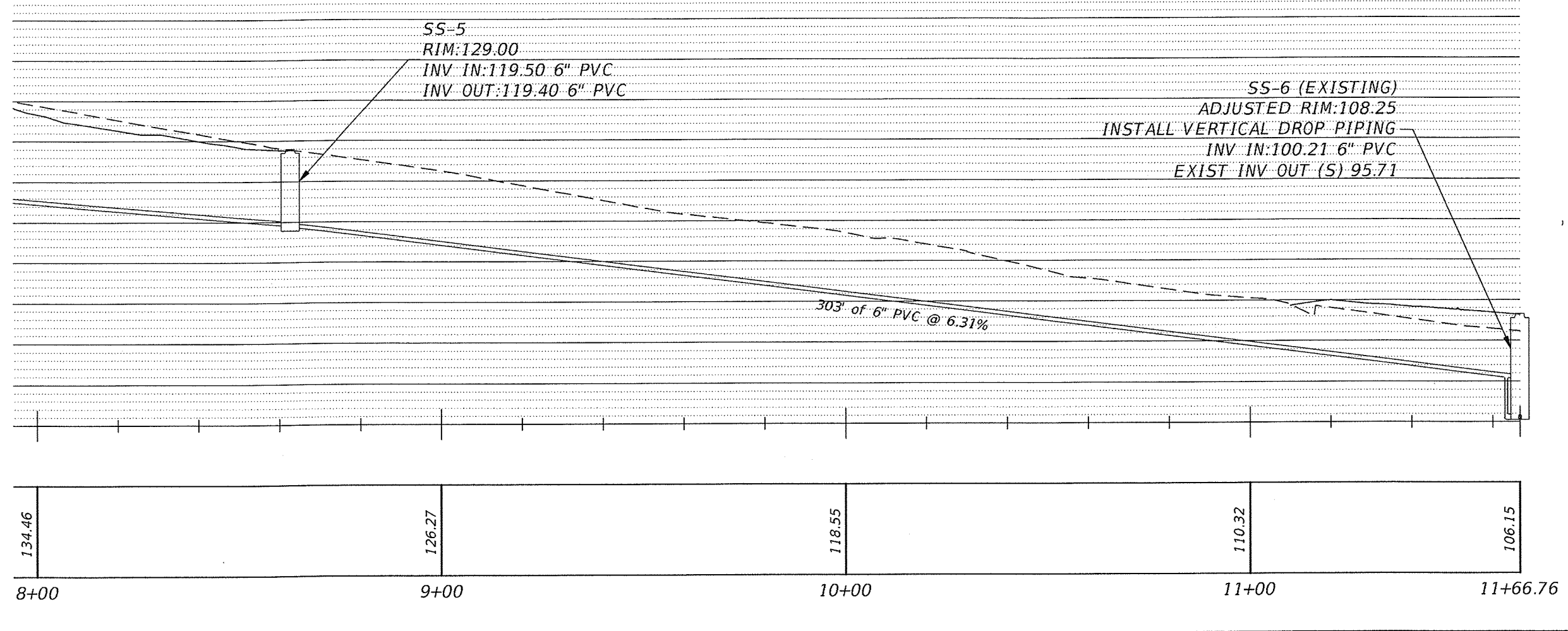
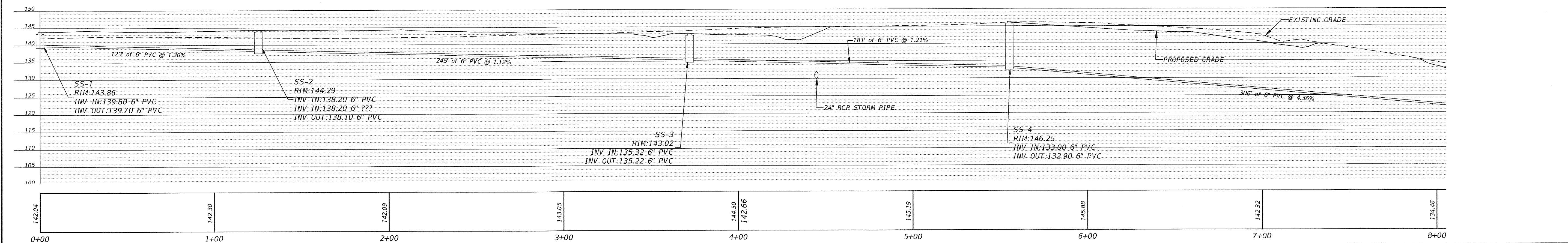
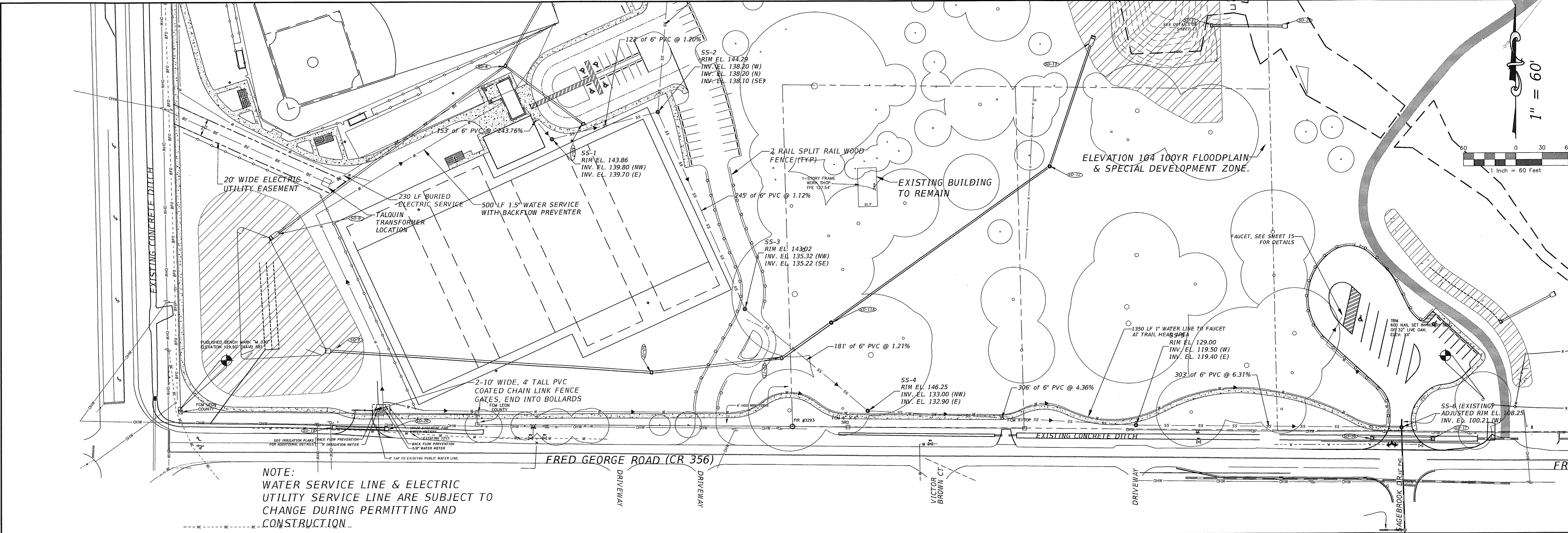
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Bryant King, P.E.  
Florida Engineer # 51994  
PROJECT NO.:  
10-0547.004  
SCALE:  
NONE  
DATE:  
07/11/2014  
DRAWING:  
13



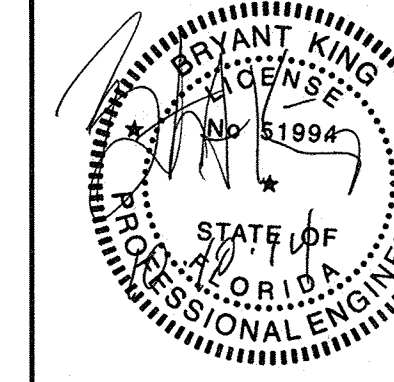
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NO.	DATE	DESCRIPTION	BY

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-5500  
 FAX (850) 606-1501

UTILITY PLAN AND PROFILE  
**FRED GEORGE BASIN GREENWAY**  
 EMP SUBMITTAL  
 LEON COUNTY, FLORIDA



Bryant King, P.E.  
 Florida Engineer # 51994  
 PROJECT NO.: 10-0547.004  
 SCALE: AS SHOWN  
 DATE: 07/11/2014  
 DRAWING: 14

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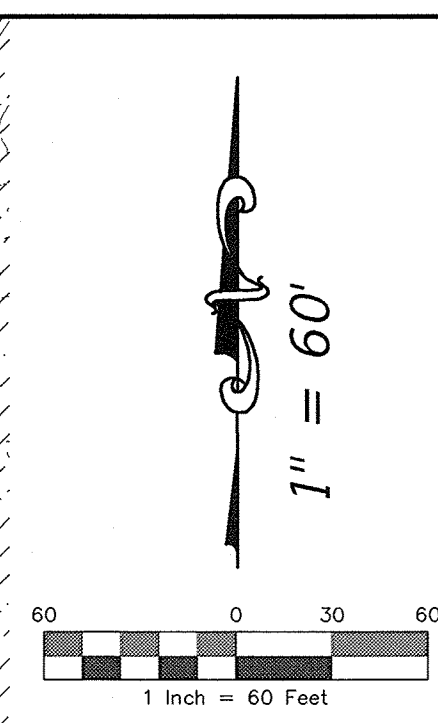
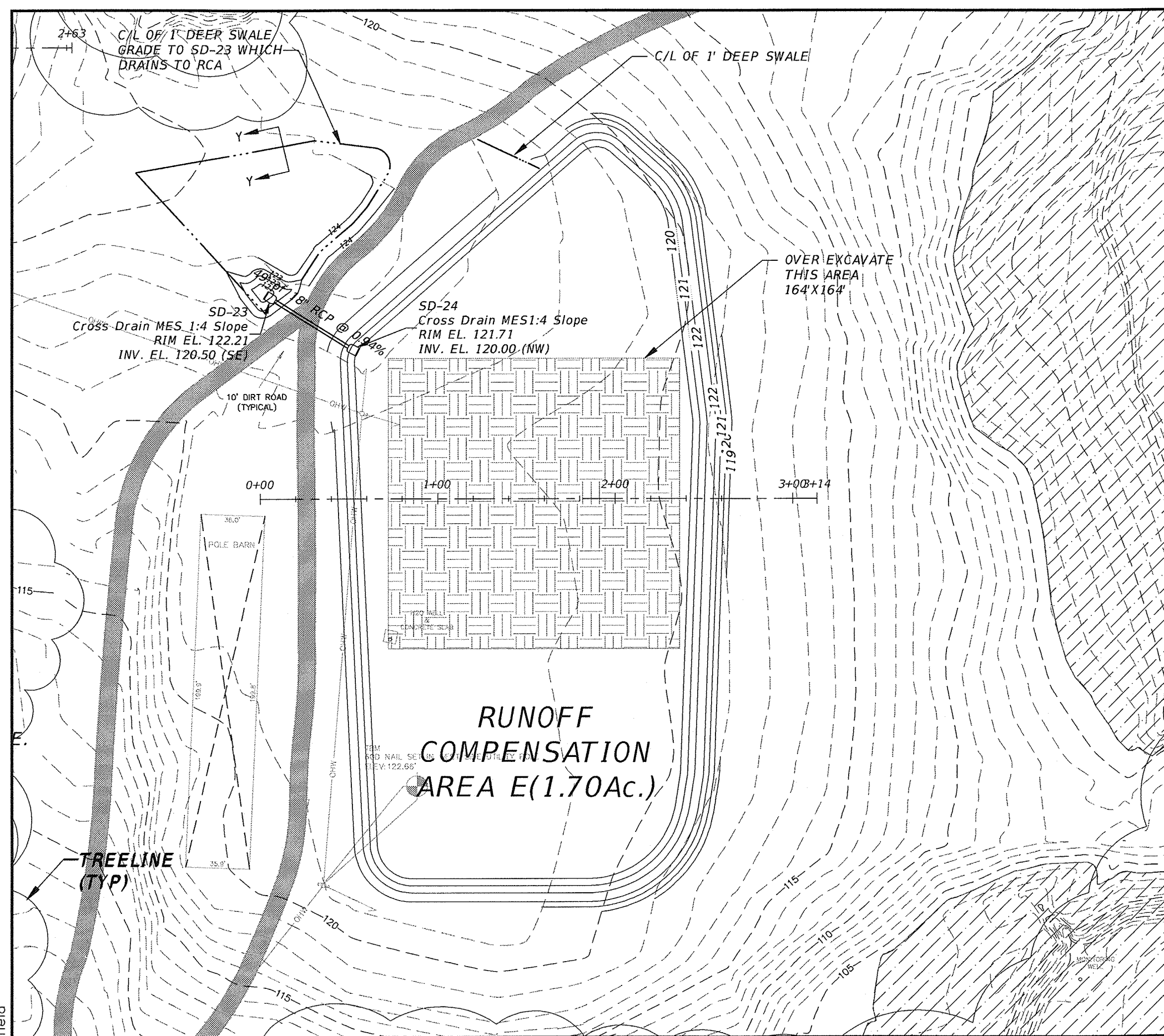




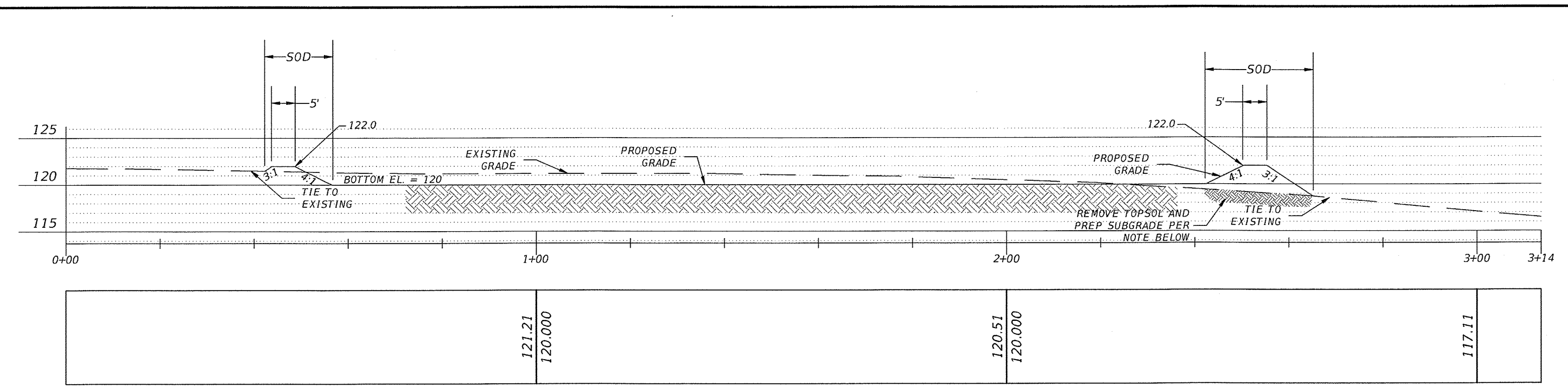








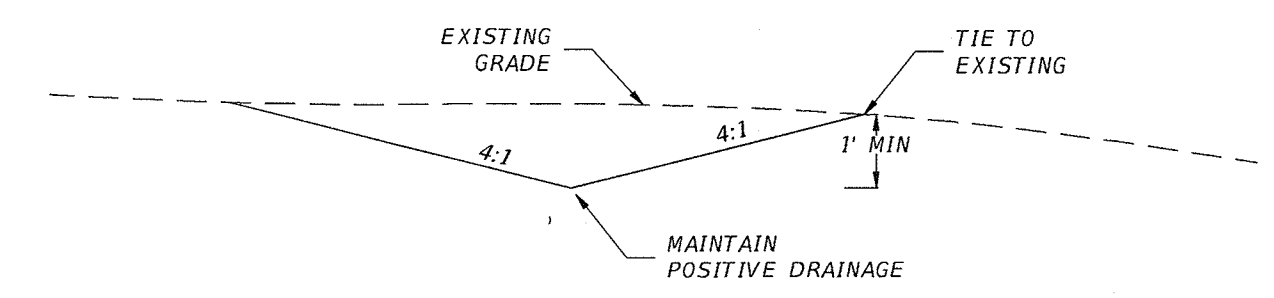
- SWM/RCA GENERAL NOTES:**
1. INITIAL CONSTRUCTION OF STORMWATER RETENTION AREA BASIN SHALL BE ROUGH GRADE BY UNDER EXCAVATING THE POND BOTTOM AND SIDE SLOPE BY APPROXIMATELY 1 FOOT
  2. AFTER DRAINAGE AREA CONTRIBUTING TO THE STORMWATER RETENTION AREA HAS BEEN FULLY STABILIZED, THE INTERIOR SIDE SLOPES AND POND BOTTOM SHALL BE EXCAVATED TO FINAL DESIGN SPECIFICATIONS (LINES AND GRADES). THE EXCESS SOIL AND UNSUITABLE MATERIAL SHALL BE CAREFULLY EXCAVATED AND REMOVED FROM THE POND SO THAT ALL ACCUMULATED SILTS, CLAYS, AND ORGANICS, AND OTHER FINE SEDIMENT MATERIAL ARE REMOVED FROM THE RETENTION AREA. THE EXCAVATED MATERIAL SHALL BE DISPOSED OF BEYOND THE LIMITS OF DRAINAGE AREA OF THE BASIN
  3. ONCE BASIN HAS BEEN EXCAVATED TO FINAL GRADE, THE ENTIRE POND BOTTOM SHOULD BE DEEP RAKED AND LOOSENEED FOR OPTIMAL INFILTRATION. ALL AREAS TO INCLUDE PERFORMANCE TURF UNLESS OTHERWISE STATED
  4. NO FILL OR OTHER CONSTRUCTION MATERIALS SHALL BE STORED AND/OR PLACED WITHIN THE LIMITS OF THE POND EXCAVATION AREAS
  5. SEE LANDSCAPE PLANS FOR SOD AND PLANTING PLANS.



**RUNOFF COMPENSATION AREA E TYPICAL SECTION**  
N.T.S.

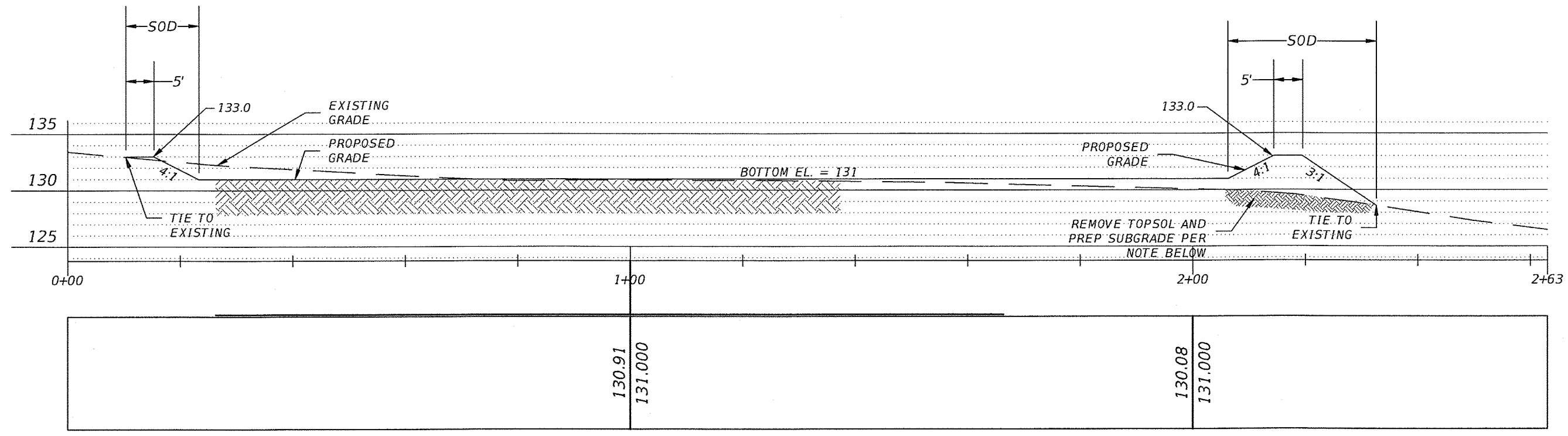
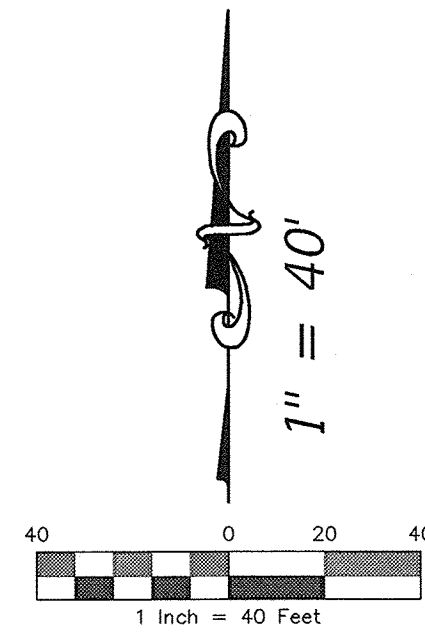
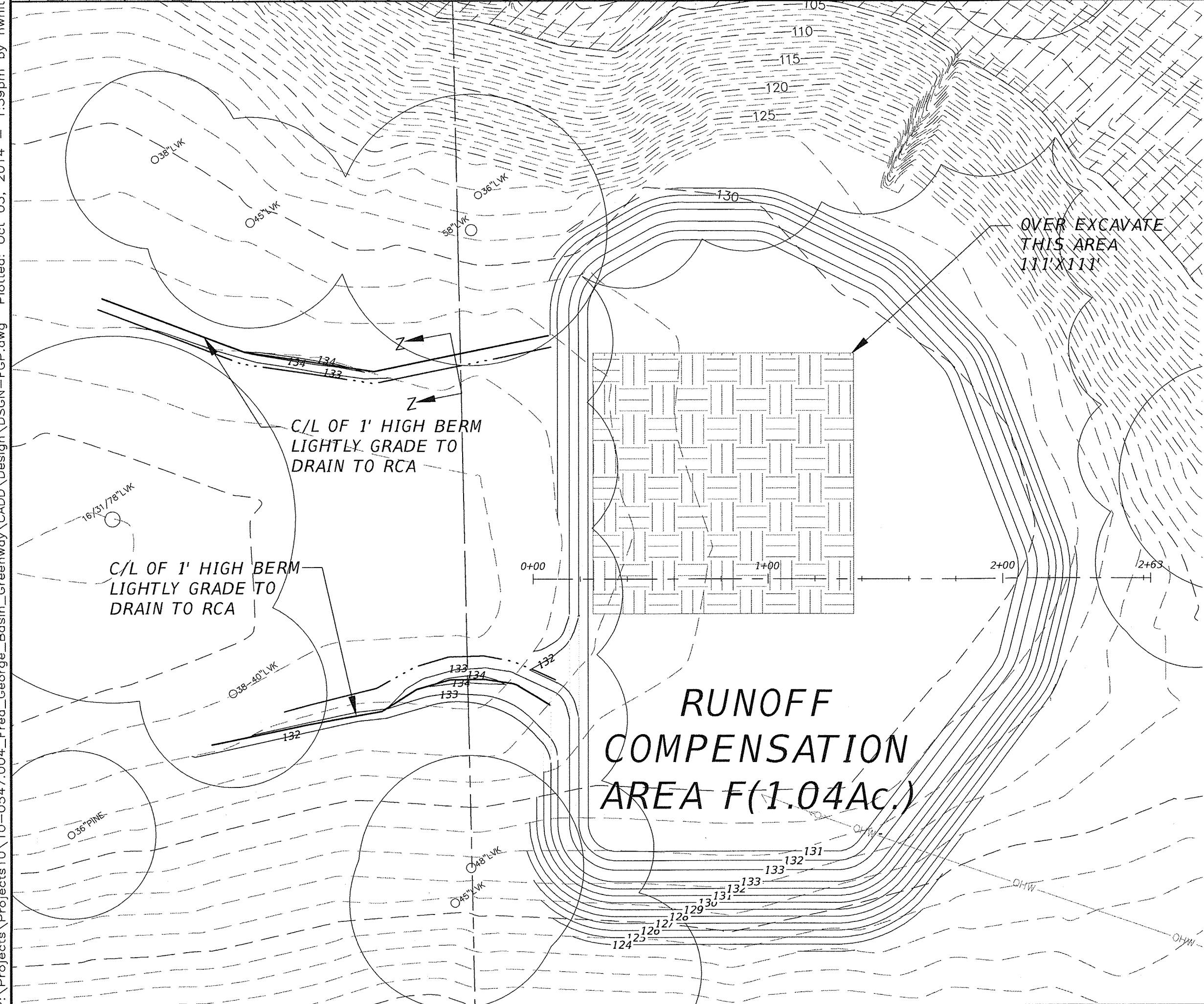
- NOTES:**
1. ALL DISTURBED AREAS WITHIN RUNOFF COMPENSATION AREA SHALL BE SODDED UNLESS OTHERWISE NOTED
  2. OVER EXCAVATION AREA SHALL BE A MINIMUM OF 16'X16'X3' DEEP. REPLACE WITH CLEAN SAND(A-2-4 WITH LESS THAN 20% FINES AND A VOID RATIO GREATER THAN 30%). FOR AREAS OF THE POND THAT ARE FILLED TO OBTAIN FINISHED GRADE ABOVE EXISTING, THE TOPSOIL SHALL BE REMOVED AND THE AREA SHOULD BE BACKFILLED AS PER THESE REQUIREMENTS ALSO.
  3. IN THE EVENT THAT WASTE MATERIALS, DEBRIS, LARGE VOID SPACES AND CONDUITS OR OTHER SUBSURFACE IRREGULARITIES ARE IDENTIFIED DURING THE EXCAVATION OF RUNOFF COMPENSATION AREAS THE ENGINEER AND LEON COUNTY ENVIRONMENTAL INSPECTOR SHALL BE CONTACTED IMMEDIATELY.

REMOVAL OF ALL TOPSOIL AND PREP SUBGRADE WITHIN THE FOOTPRINT OF THE PROPOSED BERM INCLUDING THE CONSTRUCTION OF THE PROPOSED FILL EMBANKMENT SHALL FOLLOW ALL PROCEDURES OUTLINED IN THE MEMORANDUM DATED 26 MARCH 2014 FROM EGS, INC.



**1' DIVERSION SWALE Y-Y**  
N.T.S.

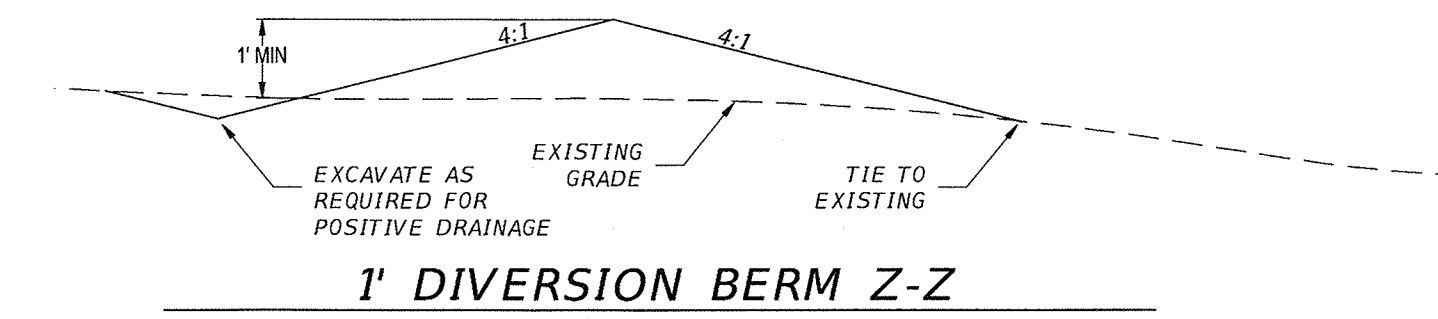
- ALL DISTURBED AREAS WITHIN BERM AREA SHALL BE SODDED UNLESS OTHERWISE NOTED



**RUNOFF COMPENSATION AREA F TYPICAL SECTION**  
N.T.S.

- NOTES:**
1. ALL DISTURBED AREAS WITHIN RUNOFF COMPENSATION AREA SHALL BE SODDED UNLESS OTHERWISE NOTED
  2. OVER EXCAVATION AREA SHALL BE A MINIMUM OF 11'X11'X3' DEEP. REPLACE WITH CLEAN SAND(A-2-4 WITH LESS THAN 20% FINES AND A VOID RATIO GREATER THAN 30%). FOR AREAS OF THE POND THAT ARE FILLED TO OBTAIN FINISHED GRADE ABOVE EXISTING, THE TOPSOIL SHALL BE REMOVED AND THE AREA SHOULD BE BACKFILLED AS PER THESE REQUIREMENTS ALSO.
  3. IN THE EVENT THAT WASTE MATERIALS, DEBRIS, LARGE VOID SPACES AND CONDUITS OR OTHER SUBSURFACE IRREGULARITIES ARE IDENTIFIED DURING THE EXCAVATION OF RUNOFF COMPENSATION AREAS THE ENGINEER AND LEON COUNTY ENVIRONMENTAL INSPECTOR SHALL BE CONTACTED IMMEDIATELY.

REMOVAL OF ALL TOPSOIL AND PREP SUBGRADE WITHIN THE FOOTPRINT OF THE PROPOSED BERM INCLUDING THE CONSTRUCTION OF THE PROPOSED FILL EMBANKMENT SHALL FOLLOW ALL PROCEDURES OUTLINED IN THE MEMORANDUM DATED 26 MARCH 2014 FROM EGS, INC.



**1' DIVERSION BERM Z-Z**  
N.T.S.

- ALL DISTURBED AREAS WITHIN BERM AREA SHALL BE SODDED UNLESS OTHERWISE NOTED  
- CLEAR AND GRUB AND REMOVE TOPSOIL BELOW BERM, THE PROPOSED BERM SHALL FOLLOW ALL PROCEDURES OUTLINED IN THE MEMORANDUM DATED 26 MARCH 2014 FROM EGS, INC.

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**FRED GEORGE BASIN GREENWAY EMP SUBMITTAL**  
LEON COUNTY, FLORIDA

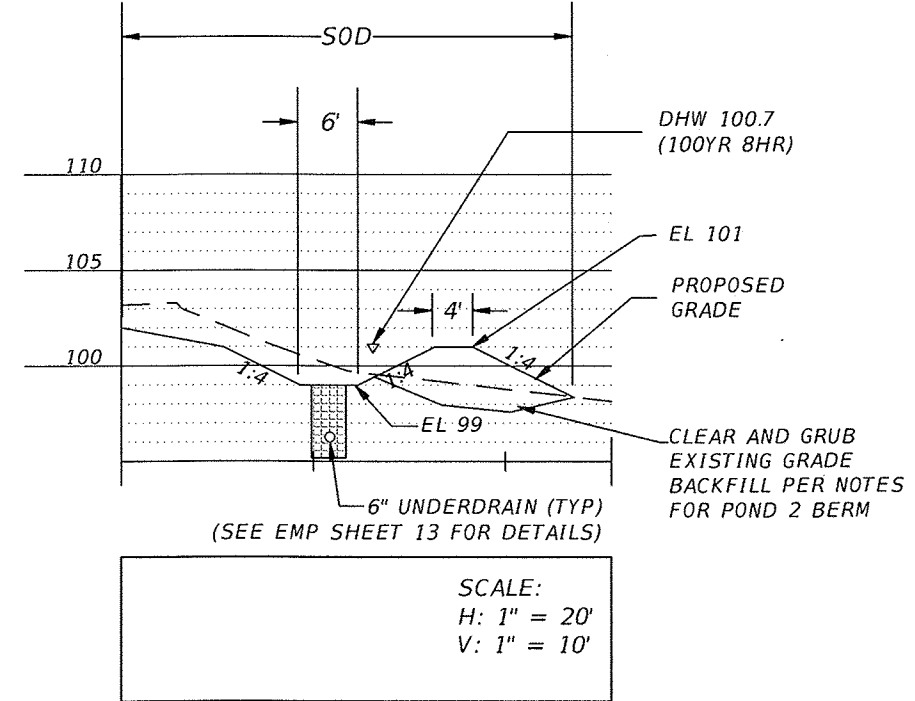
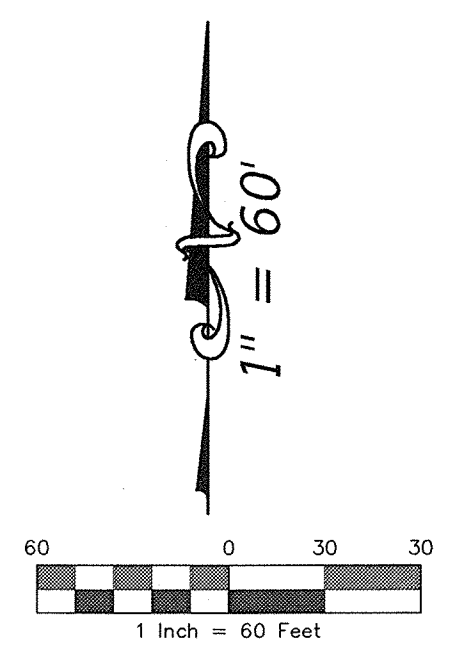
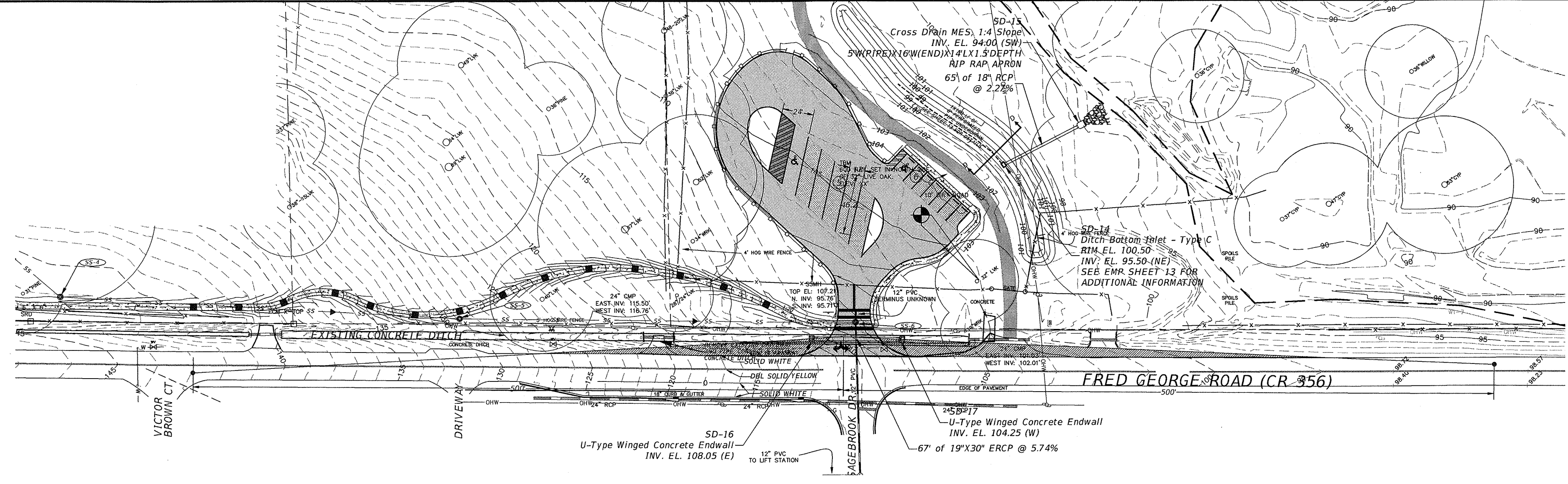
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Phone: 850.562.9600 WWW.DRMP.COM

**BRYANT KING**  
P.E.  
Florida Engineer # 51994  
PROJECT NO.: 10-0547.004  
SCALE: AS SHOWN  
DATE: 07/11/14  
DRAWING: 16A

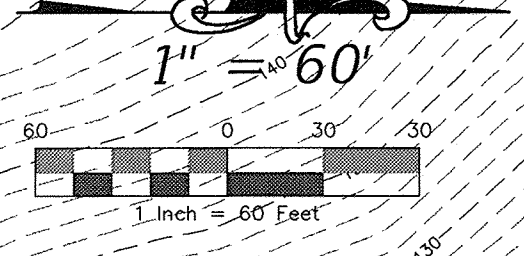
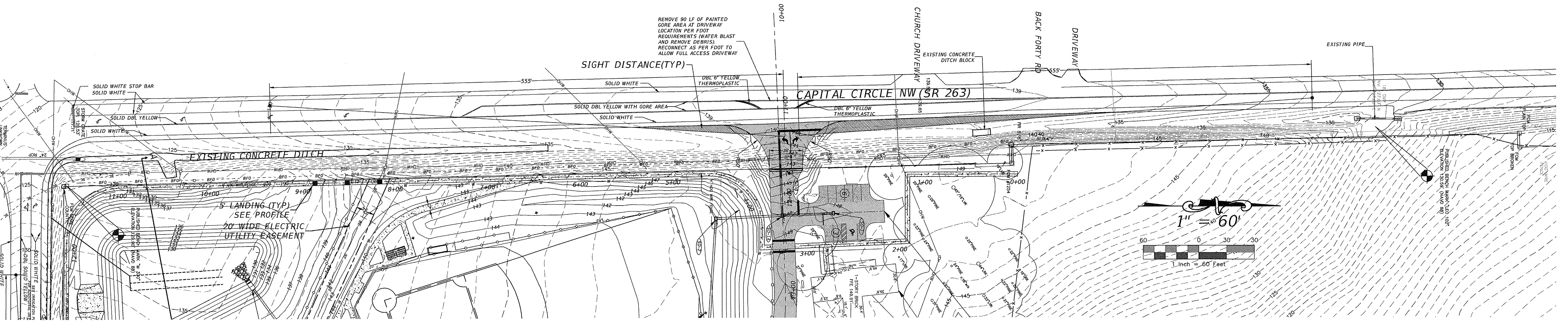
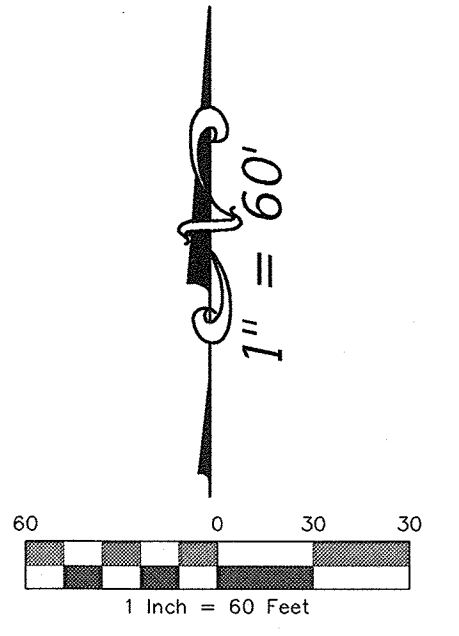
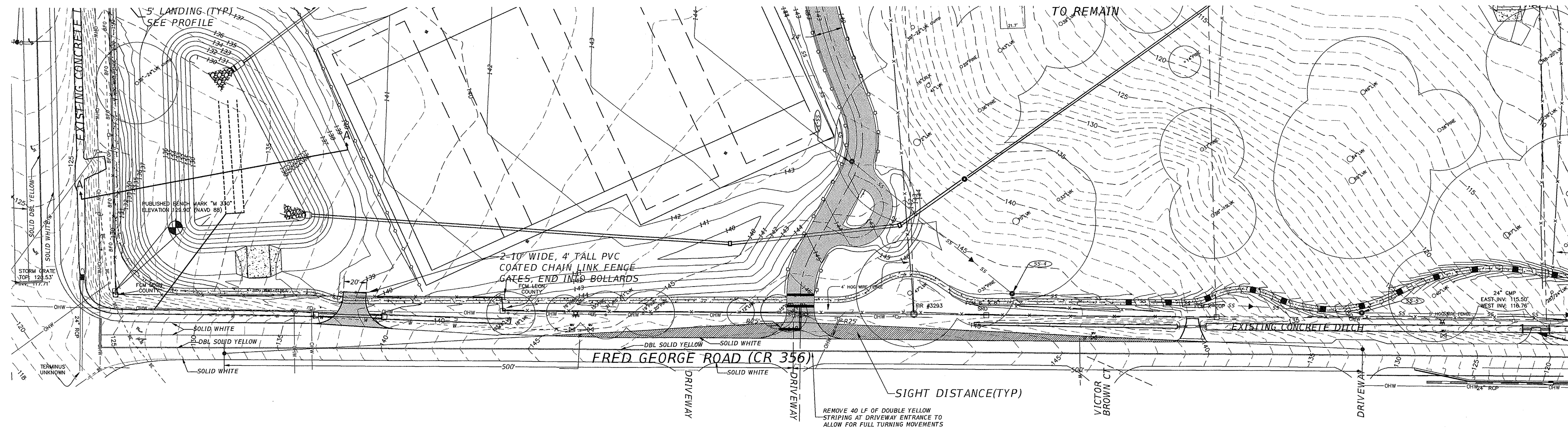
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**TREATMENT SWALE TYPICAL SECTION D-D**  
N.T.S.  
- ALL SIDE SLOPES WITHIN SWALE AREA SHALL BE SODDED UNLESS OTHERWISE NOTED



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2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
PHONE (850) 606-1500  
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LEON COUNTY, FLORIDA

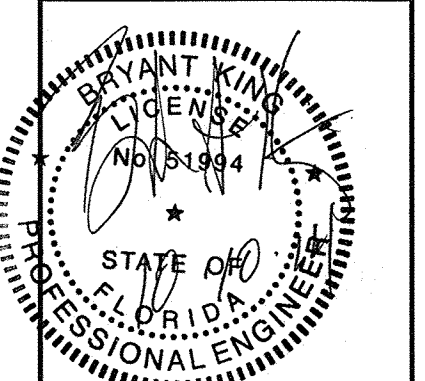
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DRAWN BY: [ ]  
CHECKED BY: [ ]  
APPROVED BY: [ ]

TRAILHEAD PARKING & SIGHT DISTANCE  
**FRED GEORGE BASIN GREENWAY EMP SUBMITTAL**  
LEON COUNTY, FLORIDA

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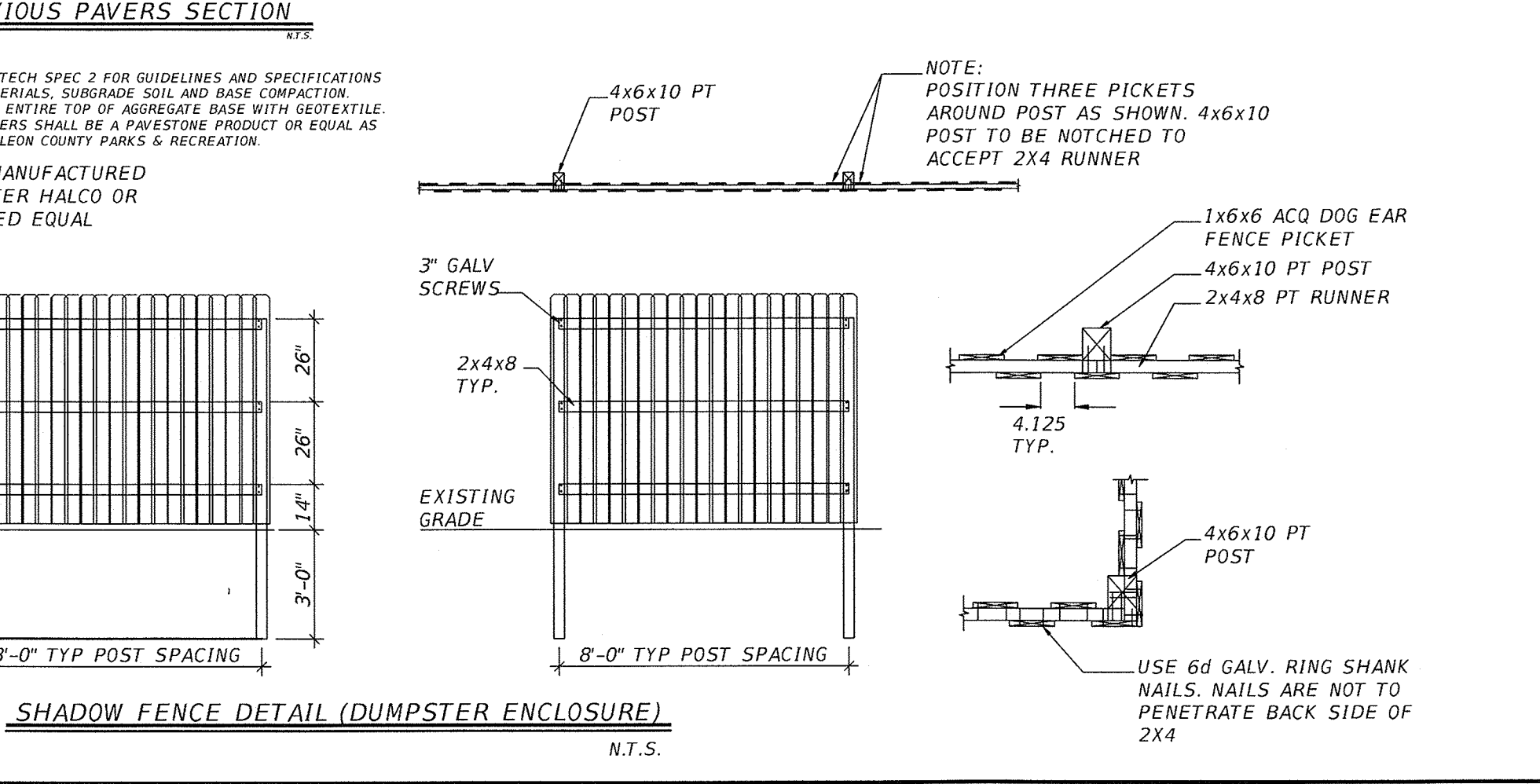
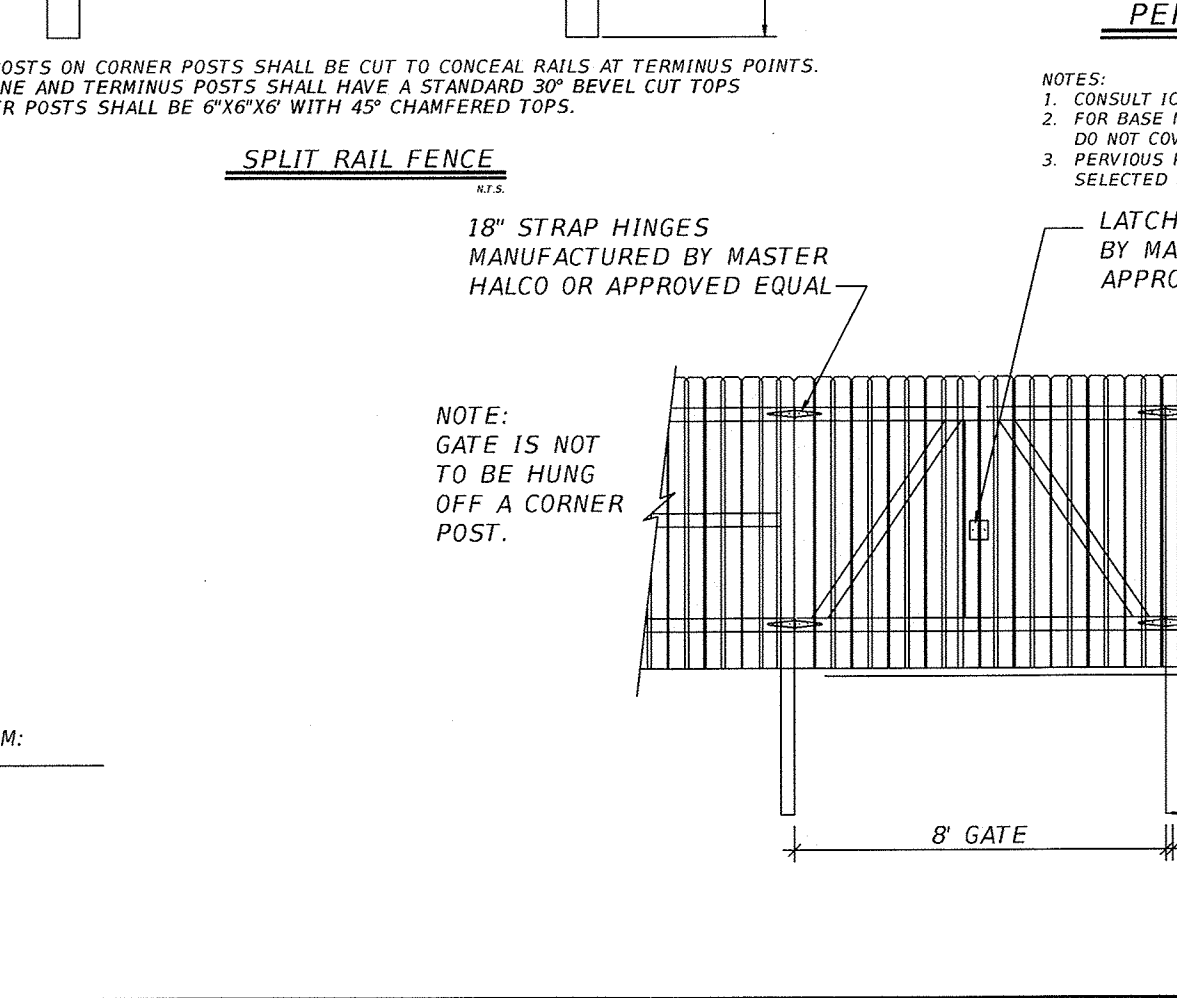
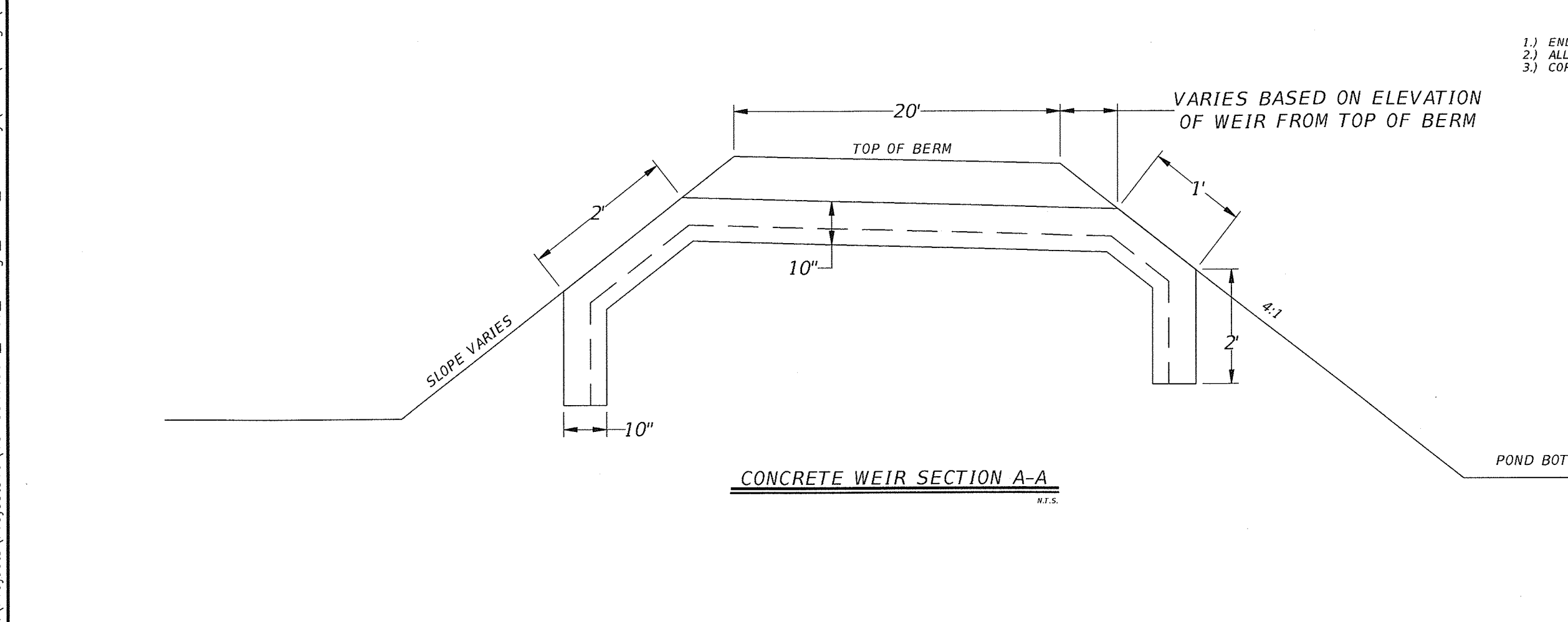
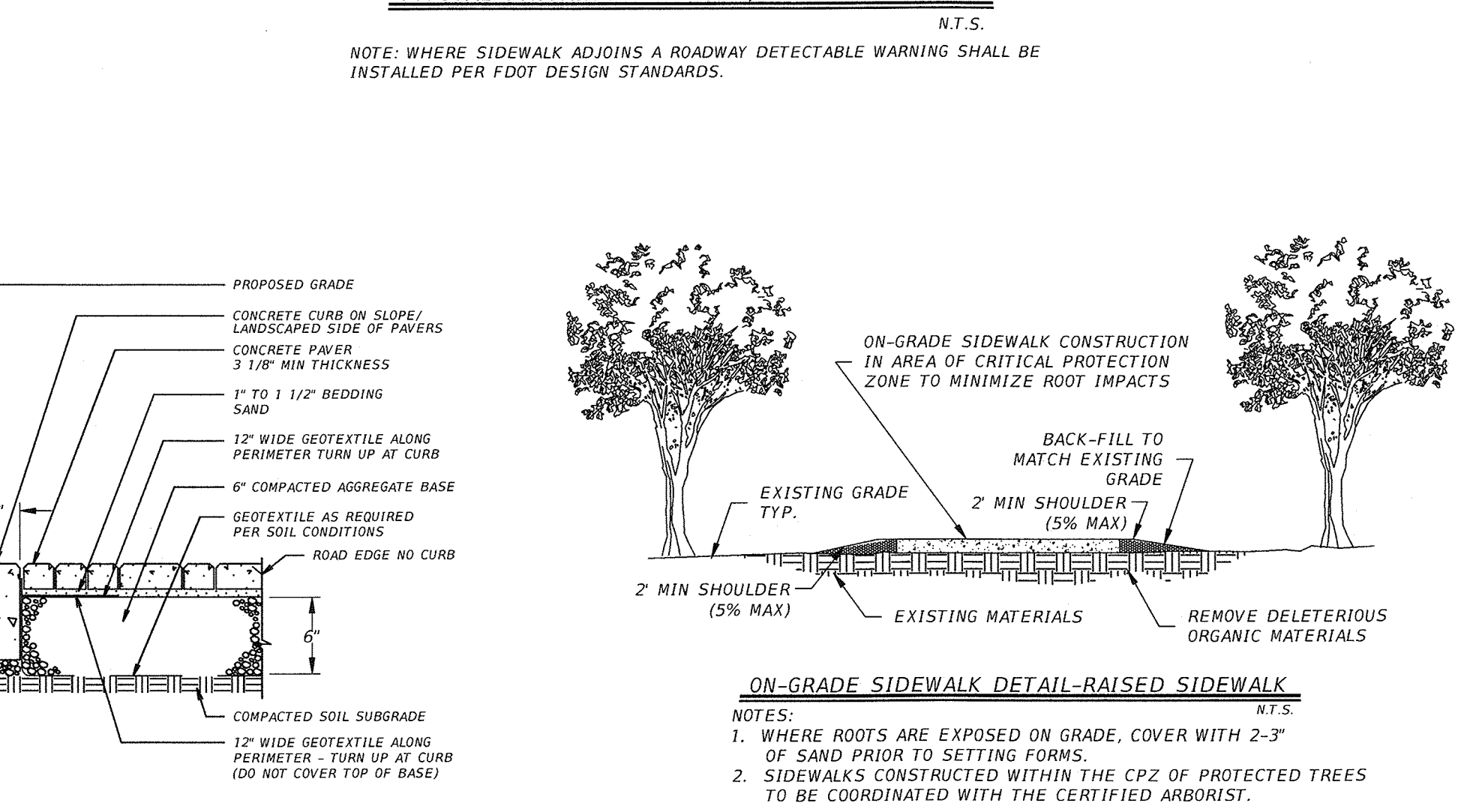
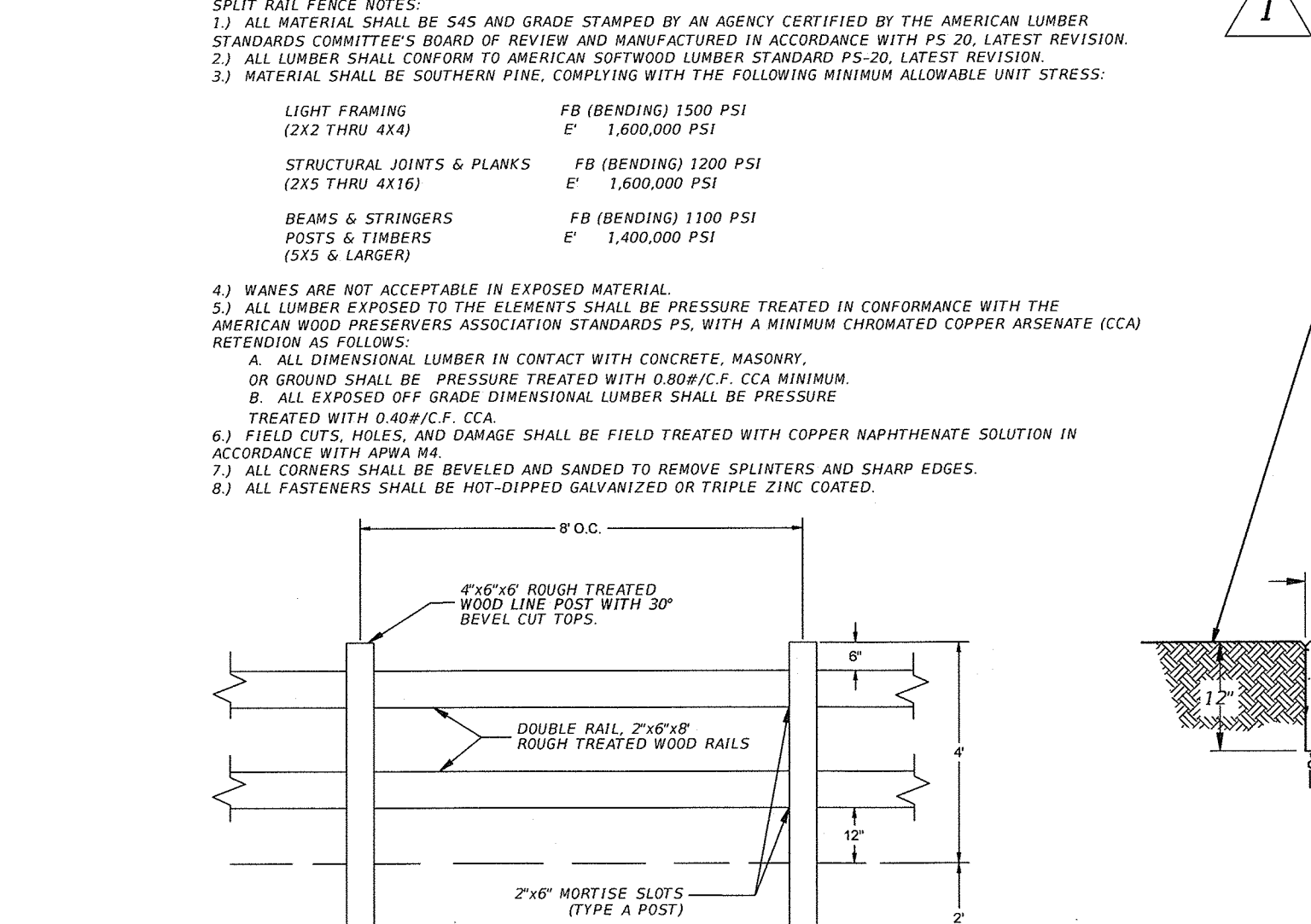
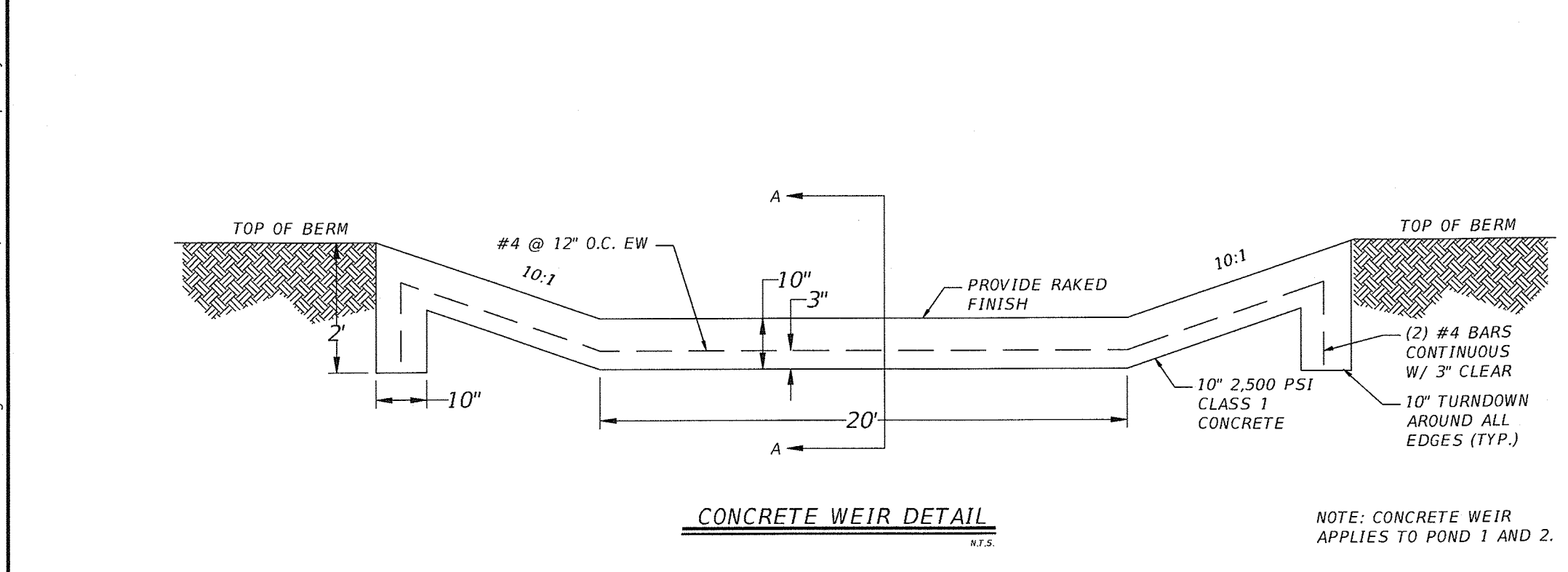
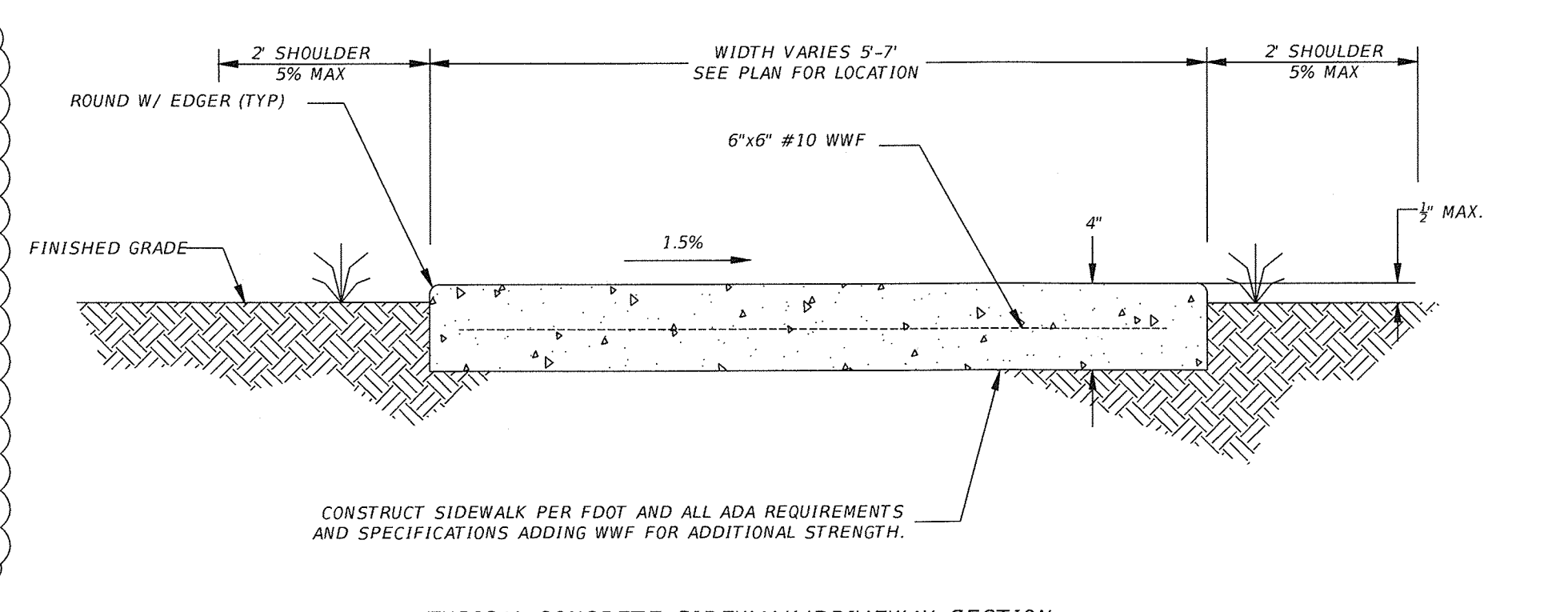
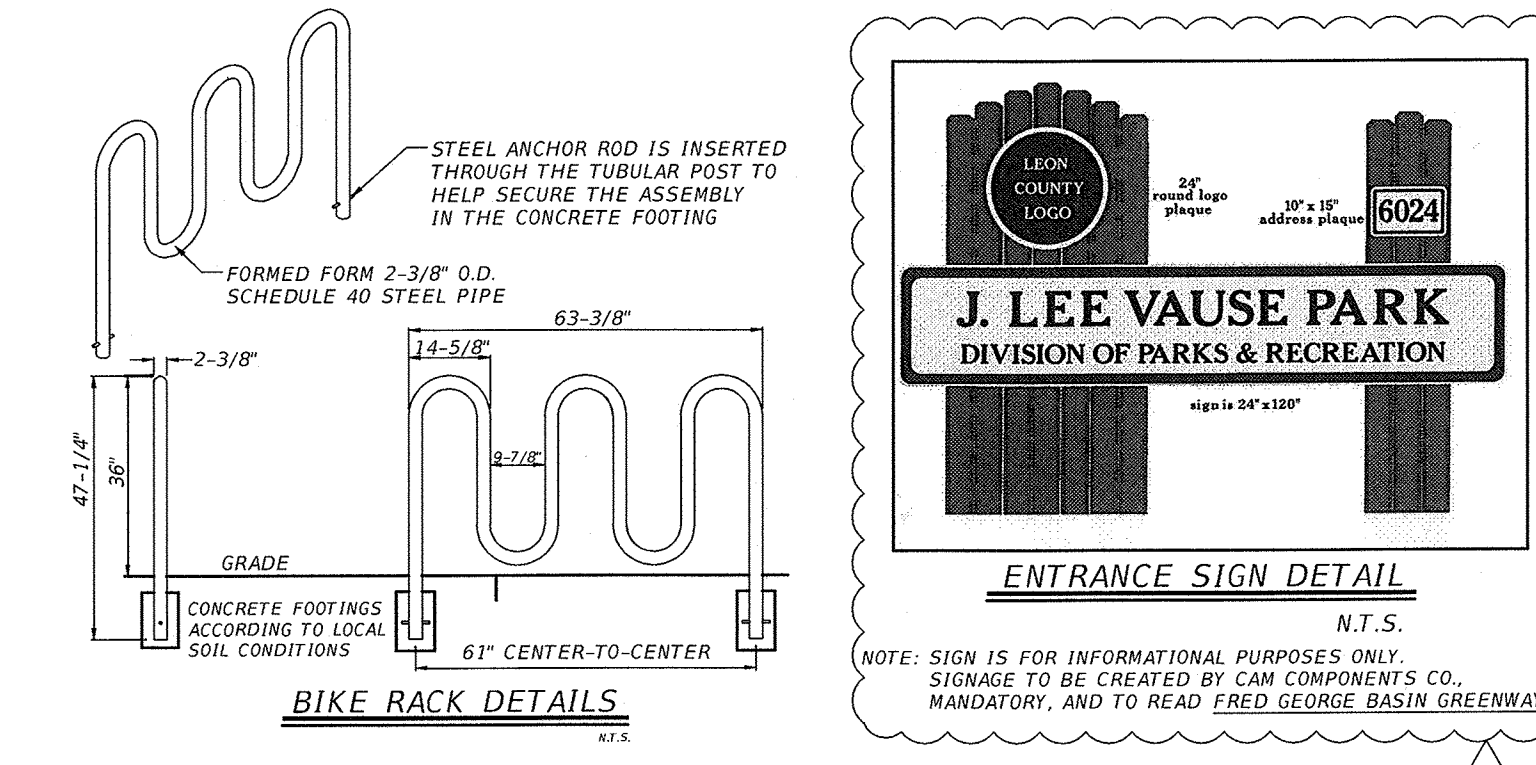
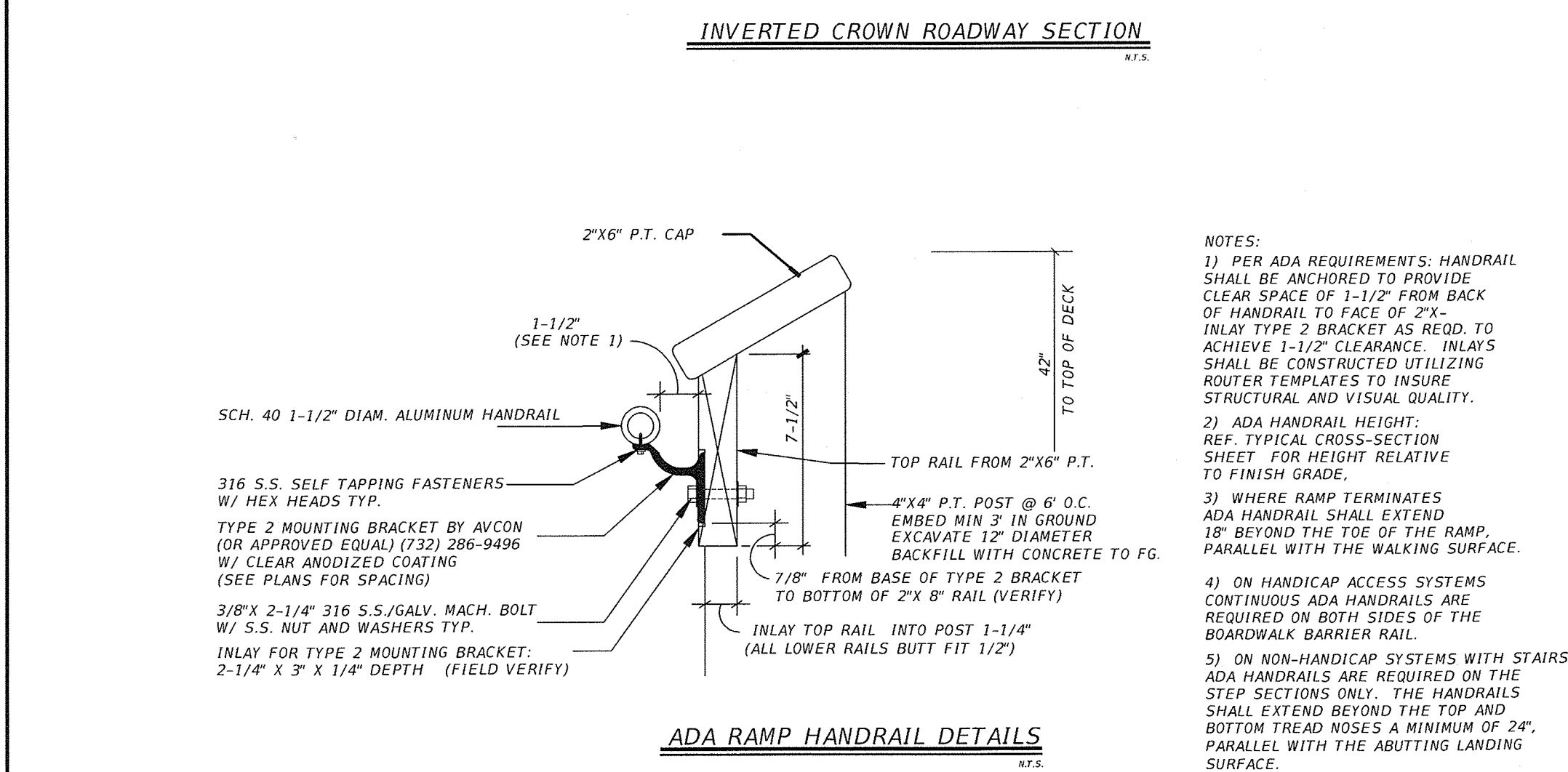
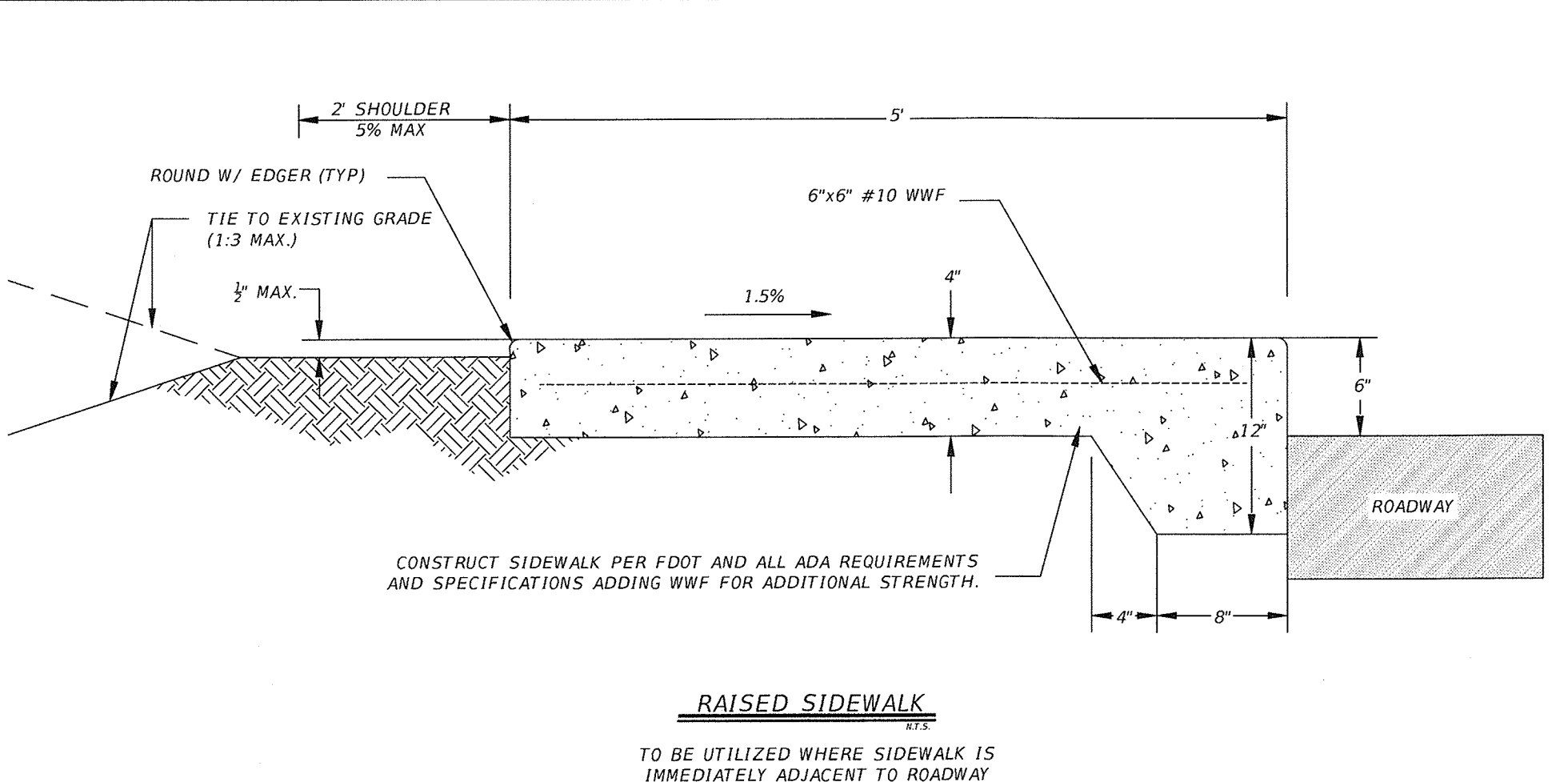
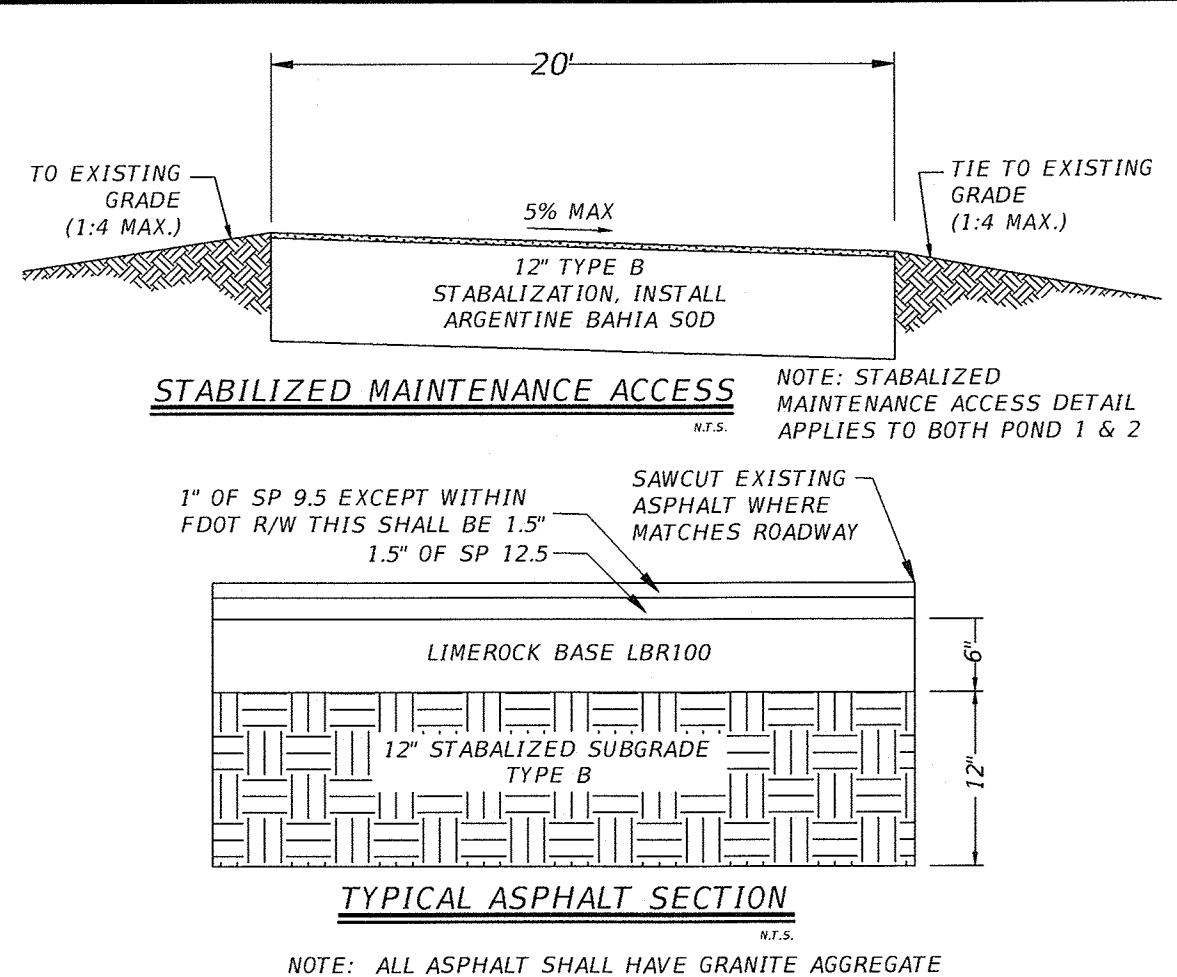
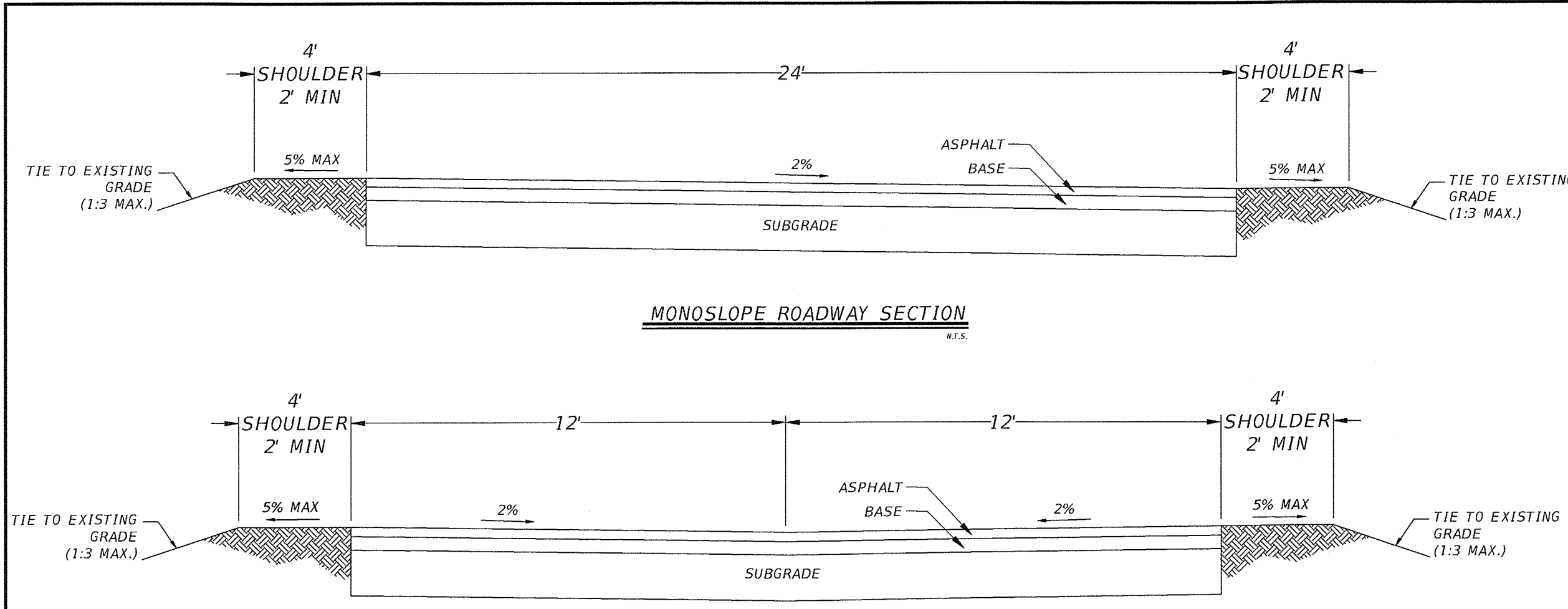
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PROJECT NO.: 10-0547.004  
SCALE: AS SHOWN  
DATE: 07/11/14  
DRAWING: 17



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REVISIONS	NO.	DATE	DESCRIPTION
	1	10/03/2014	ADDED SIGNAGE DETAIL

DESIGNED BY: [ ]  
 DRAWN BY: [ ]  
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 LEON COUNTY, FLORIDA

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

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 LICENSED PROFESSIONAL ENGINEER  
 No. 51994  
 STATE OF FLORIDA

Bryant King, P.E.  
 Florida Engineer # 51994  
 PROJECT NO.: 10-0547.004  
 SCALE: NONE  
 DATE: 07/11/14  
 DRAWING: 18



**SEEDING**

**CONSTRUCTION SPECIFICATIONS:**

**TIMING:**  
 APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT FOR 1 YEAR OR MORE. APPLY PERMANENT SEEDING WHEN NO FURTHER DISTURBANCES ARE PLANNED. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION CONTROL SPECIALIST. APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED. USE DORMANT SEEDING FOR LATE FALL OR WINTER SEEDING SCHEDULES.

**SEED MIXES:**  
 USE SEEDS APPROPRIATE TO THE SEASON AND SITE CONDITIONS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALISTS FOR SEED MIX. USE A SEED BLEND TO INCLUDE ANNUALS, PERENNIALS AND LEGUMES. USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 80%. WHEN PLS IS BELOW 80% ADJUST RATES ACCORDINGLY.

**SITE PREPARATION:**  
 BRING THE PLANTING AREA TO FINAL GRADE AND INSTALL THE NECESSARY EROSION CONTROL PRACTICES. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDING AREA. CONDUCT SOIL TEST TO DETERMINE PH AND NUTRIENT CONTENT. ROUGHEN THE SOIL BY HARROWING, TRACKING, GROOVING OR FURROWING. APPLY AMENDMENTS AS NEEDED TO ADJUST PH TO 6.0-7.5. INCORPORATE THESE AMENDMENTS INTO THE OIL. PREPARE A 3-5 INCH DEEP SEEDBED, WITH THE TOP 3-4 INCHES (76-102 MM) CONSISTING OF TOPSOIL. THE SEEDBED SHOULD BE FIRM BUT NOT COMPACT. THE TOP THREE INCHES OF SOIL SHOULD BE LOOSE, MOIST AND FREE OF LARGE CLODS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN SEASONABLY CLOSE CONFORMITY TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

**PLANTING:**  
 SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN IDLE LONG ENOUGH FOR THE SOIL TO

BECOME COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITIONS THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE FACE OF THE SLOPE. SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. ALWAYS APPLY SEED BEFORE APPLYING MULCH. APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLONE SEEDERS, MECHANICAL DRILLS, OR HYDROSEEDER SO THE SEED IS APPLIED UNIFORMLY ON THE SITE. BROADCAST SEED SHOULD BE INCORPORATED INTO THE SOIL BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY COMPACTED TO PROVIDE GOOD SEED-SOIL CONTACT. APPLY FERTILIZER AS SPECIFIED. APPLY MULCH OR EROSION CONTROL BLANKET, AS SPECIFIED, OVER THE SEEDED AREAS.

**INSPECTION AND MAINTENANCE:**  
 NEWLY SEEDD AREAS NEED TO BE INSPECTED FREQUENTLY TO ENSURE THE GRASS IS GROWING. IF THE SEEDD AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORMWATER MEASURES MAY BE NEEDED. SPOT SEEDING CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DID NOT GROW PROPERLY.

**TEMPORARY SEEDING**

(TO BE USED DURING CONSTRUCTION TO STABILIZE SOIL AND REDUCE EROSION)

**PLANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS**

SPECIES	BROADCAST Rates per Acre	PLS per 1000 SF	RESOURCE (Darker shades indicate optimum dates, and lighter shades indicate permissible but marginal dates)	REMARKS
MILLET, BROWNTOP (Panicum fasciculatum)	ALONE ..... 40 lbs. 0.9 lb. IN MIXTURES ..... 10 lbs. 0.2 lb.		MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDD AT HIGH RATES
RYE (Secale cereale)	ALONE ..... 3 bu. (168 lbs.) 3.9 lb. IN MIXTURES ..... 1/2 bu. (28 lbs.) 0.6 lb.		MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER-HARDY
RYEGRASS, ANNUAL (Lolium temulentum)	ALONE ..... 40 lbs. 0.9 lb.		MOUNTAINS SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES

**PERMANENT SEEDING**

(TO BE USED AFTER FINAL GRADING FOR PERMANENT SEEDING)  
 (FOR DISTURBED AREAS NOT COVERED IN LANDSCAPE PLANS)

**PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER OR COMPANION CROPS**

SPECIES	BROADCAST Rates per Acre	PLS per 1000 SF	RESOURCE (Darker shades indicate optimum dates, and lighter shades indicate permissible but marginal dates)	REMARKS
BAHIA GRASS Hulled Seed	ALONE ..... 10 lbs. 0.2 lb. WITH OTHER PERENNIALS ..... 6 lbs. 0.1 lb.		SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	1,787,000 SEED PER LB QUICK COVER LOW GROWING AND SOD FORMING FULL SUN GOOD FOR ATHLETIC FIELDS
BAHIA GRASS WITH TEMPORARY COVER	ALONE ..... 10 lbs. 0.2 lb. WITH OTHER PERENNIALS ..... 6 lbs. 0.1 lb.		SOUTHERN PIEDMONT SOUTHERN COASTAL PLAIN	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE

**VEGETATIVE PLAN**

SPECIES	RATES PER ACRE	PLANTING DATES
AGRICULTURAL LIMESTONE FERTILIZER, 5-10-15 MULCH, STRAW, HAY	4,000 LBS. 1,500 LBS. 5,000 LBS.	
HULLED COMMON BERMUDA GRASS	10 LBS.	3/1 - 6/15
HAY MULCH FOR TEMPORARY COVER	5,000 LBS.	6/15 - 8/31
TOPDRESSING 33.5% AMMONIUM NITRATE	300 LBS.	WHEN PLANTS ARE 2" - 4" TALL
SECOND YEAR FERTILIZER 5-10-15 (OR EQUAL)	800 LBS.	

**SEEDING SCHEDULE**

SPECIES	RATES PER ACRE	PLANTING DATES
SEEDING:		
RYE GRAIN	168 LBS.	15 JULY-30 JANUARY
RYE GRAIN W/MIXTURE	1/2 BU.	
BAHIA	30 LBS.	1 MARCH-30 SEPTEMBER 1 OCTOBER-28 FEBRUARY
FERTILIZER:		
5-10-10	1,800 LBS.	
MULCH:		
HAY	2 1/2 TONS	
STRAW	2 TONS	

**PLANTING:**  
 PLANTING TO BE ACCOMPLISHED BY HYDRAULIC SEEDING

**LIME RATE:**  
 WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED AGRICULTURE LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT A RATE OF 2 TONS PER ACRE.

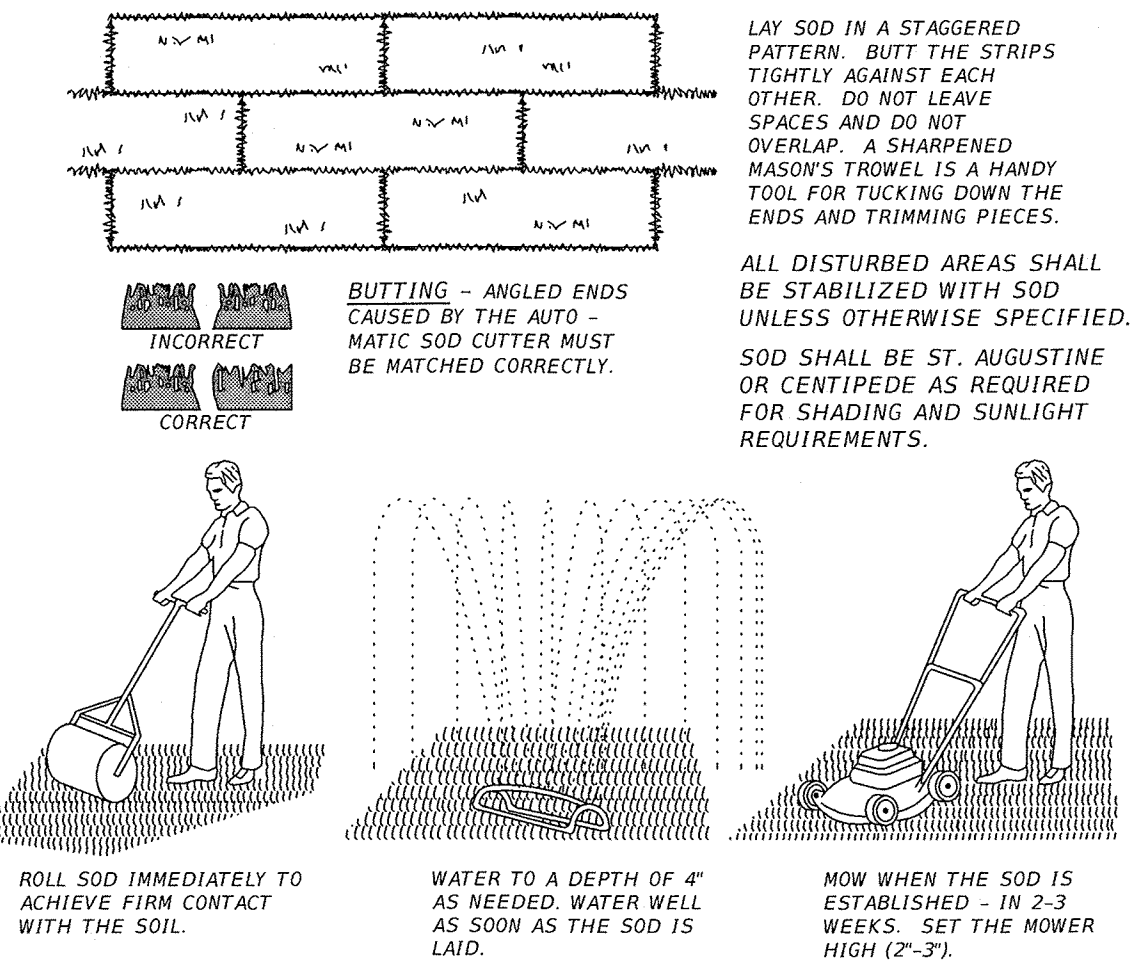
NOTE: DURING "HIGH FAILURE" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.

- \*USE A MINIMUM OF 40 LBS. SCARIFIED SEED, REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.
- \*USE EITHER COMMON SERAIA OR INTERSTATE SERICEA LESPEDEZA.
- ALL AREAS TO BE SEEDD SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 S.F.. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
- ALL AREAS SEEDD SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
- MAINTAIN 1 YEAR MINIMUM
- FERTILIZER: AGRICULTURAL LIME 1 TON PER ACRE 8-12-12 OR 5-10-15 1000 LB. PER ACRE

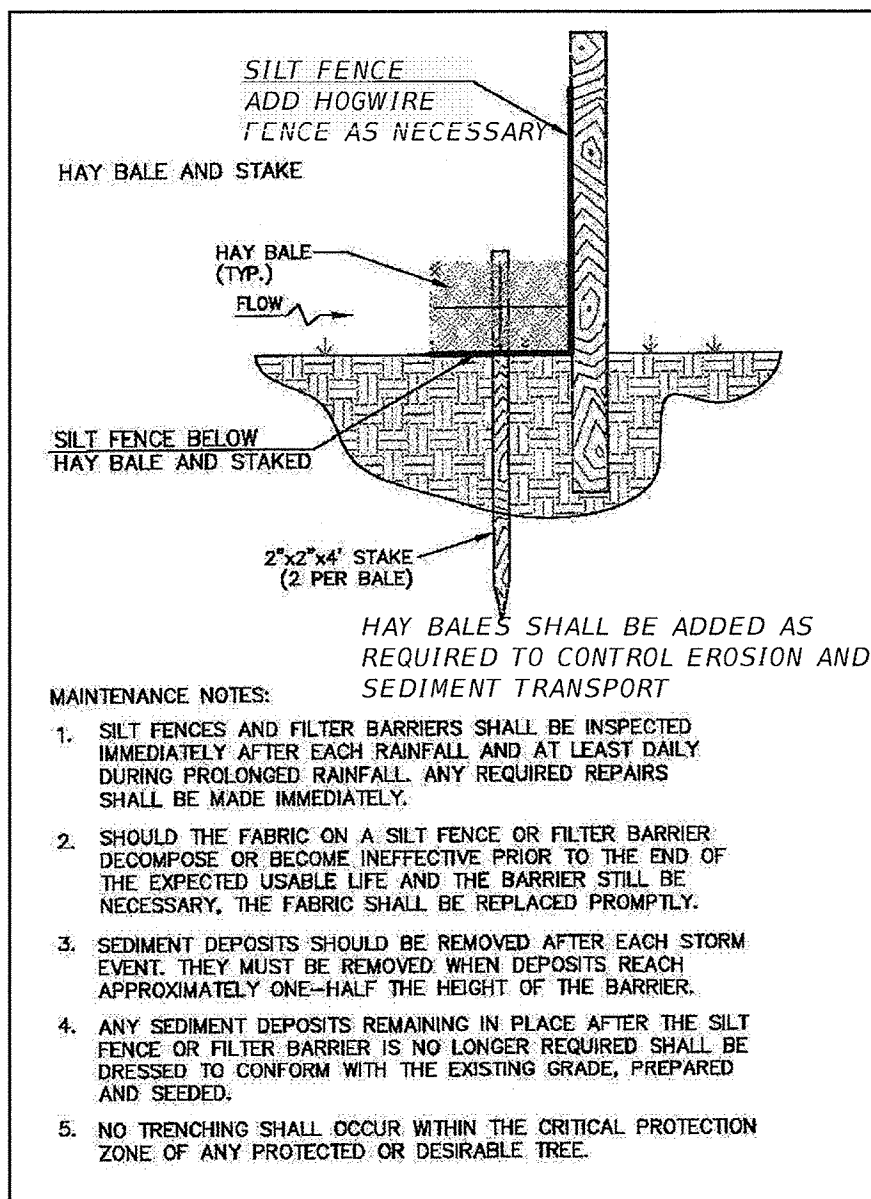
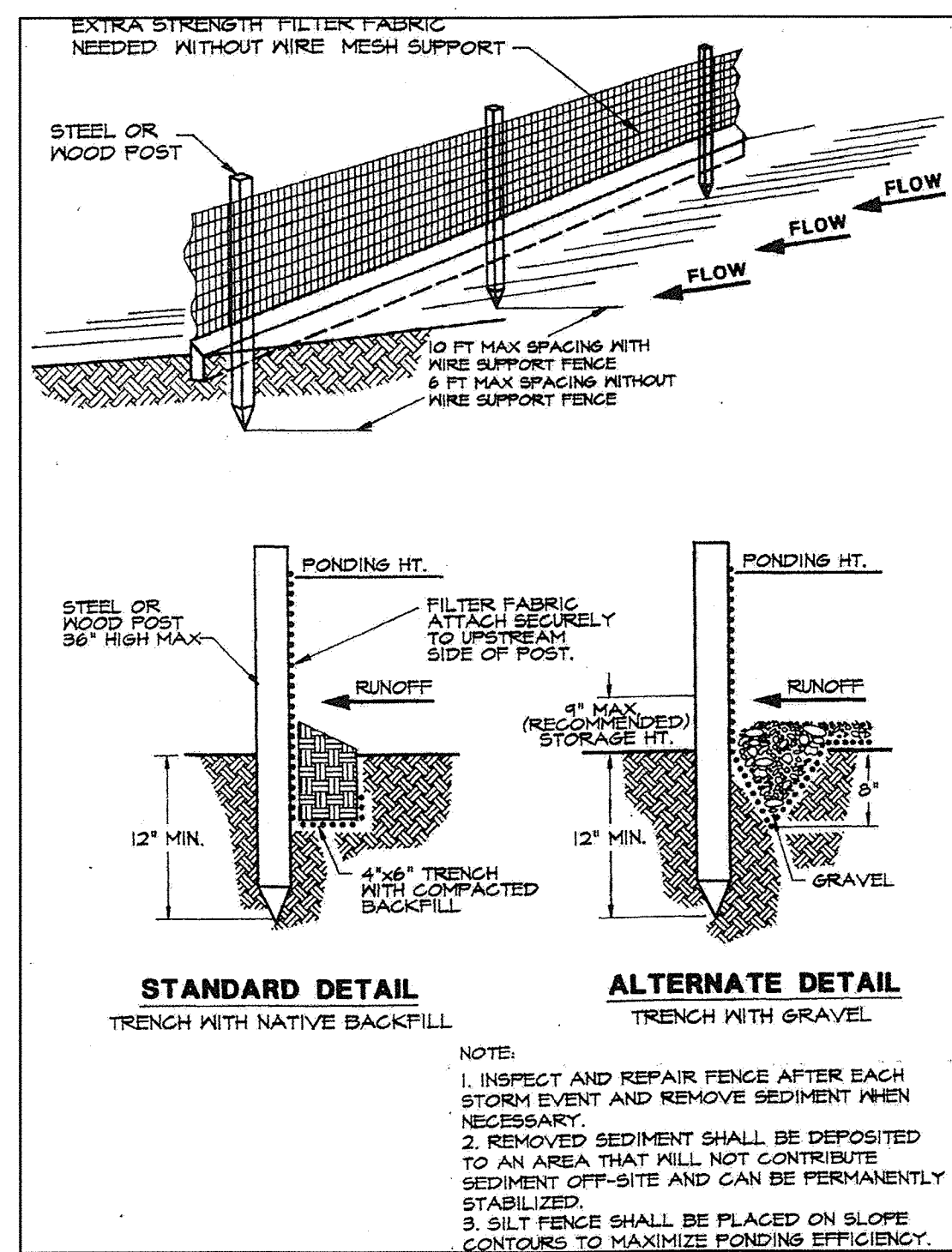
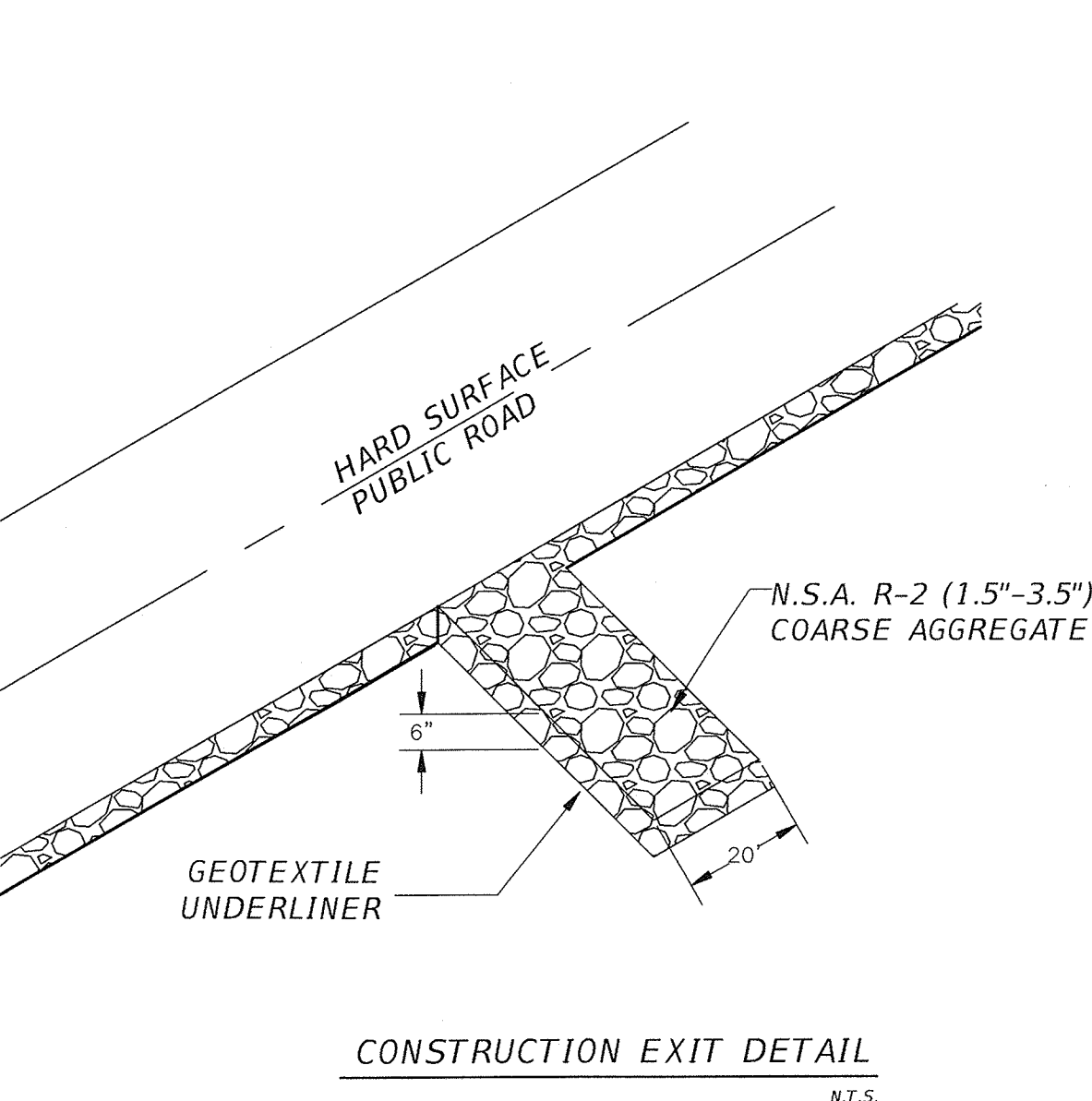
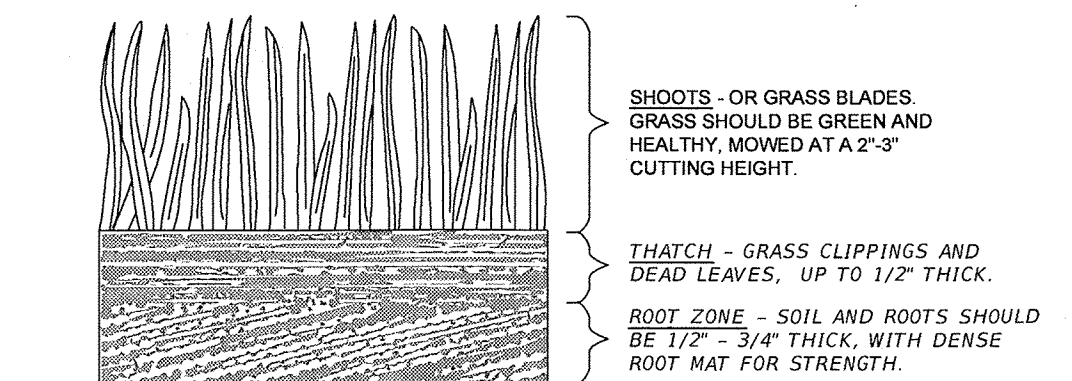
**EROSION CONTROL GENERAL NOTES**

1. EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
2. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
3. ALL DEVICES ARE TO BE MAINTAINED AND REPAIRED ON A REGULAR BASIS.
4. EXCESS SEDIMENT TO BE REMOVED WHEN SILT REACHES ONE-HALF (1/2) THE HEIGHT OF THE FENCE.
5. TEMPORARY GRASSING IS TO BE NOT LESS THAN TWO (2) DAYS AFTER COMPLETION OF ANY GRADING ACTIVITIES.
6. ALL DRAINAGE STRUCTURES TO BE EROSION PROOFED (WITH RIPRAP AS PER DETAIL ON THIS SHEET) ALL RIPRAP SHALL BE TYPE I STONE PLAIN IN ACCORDANCE WITH THE LATEST EDITION OF FOOT STANDARD SPECIFICATIONS.
7. ALL HEAD WALLS ARE TO HAVE STORM DRAIN OUTLET PROTECTION AND SILT TRAP DITCHES.
8. SILT FENCE MUST MEET THE REQUIREMENTS OF FDOT, STANDARD SPECIFICATIONS, LATEST EDITION.
9. PERMANENT VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL FOLLOWING FINAL GRADING.
10. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO CONSTRUCTION.
11. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN, AND REPAIRED BY THE GENERAL CONTRACTOR AS NEEDED.
12. CONTRACTOR TO COMPLETELY SECURE FROM EROSION ANY STOCK PILE OF EARTHEN MATERIALS. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY MATERIAL STOCKPILE LOCATIONS PRIOR COMMENCING WORK. THE LOCATIONS WILL BE CONFIRMED WITH THE DESIGN ENGINEER AND CONTRACTING OFFICER, AND THE EROSION CONTROL PLANS WILL BE "REDLINED" WITH APPROPRIATE BMP'S TO REFLECT THE LOCATIONS.
13. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
14. ALL DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF FDOT.
15. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE PROJECT ENGINEER, COUNTY REPRESENTATIVE OR AS CONDITIONS MAY DICTATE.
16. MAXIMUM CUT OR FILL SLOPES IS 3H:1V.
17. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
18. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES AND ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
19. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
20. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
21. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
22. NO WASTE WILL BE DISPOSED INTO STORM WATER INLET OR WATER OF THE STATE.
23. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
24. ADEQUATE ROOM HAS BEEN PROVIDED WITHIN THE PROJECT LIMITS FOR REMOVAL OF BMP'S. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE/BEYOND THE LIMITS OF CONSTRUCTION/DISTURBANCE TO REMOVE BMP'S.
25. CONTRACTOR IS REQUIRED TO OBTAIN NPDES PERMIT OR EXEMPTION CERTIFICATION FOR THE CONSTRUCTION.

**SODDING**



**APPEARANCE OF GOOD SOD**



**SHEET FLOW APPLICATION: SILT FENCE**

- GENERAL NOTES**
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
  2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED AS DESCRIBED IN ITEM NO. 8 BELOW.
  3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET. STAKE LOCATIONS WILL BE ADJUSTED BY THE ARBORIST TO MINIMIZE DAMAGE TO TREE ROOT SYSTEMS.
  4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
  6. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
  7. WHEN ATTACHING TWO SILT FENCES TOGETHER, PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS AT LEAST 180 DEGREES ON A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FILTER FABRIC. DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAP.
  8. WHEN USED TO CONTROL SEDIMENTS FROM A STEEP SLOPE, SILT FENCES SHOULD BE PLACED AWAY FROM THE TOE OF THE SLOPE FOR INCREASED HOLDING CAPACITY.
  9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

- MAINTENANCE NOTES:**
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
  2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
  3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
  4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDD.
  5. NO TRENCHING SHALL OCCUR WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED OR DESIRABLE TREE.

DETAILS FROM FLORIDA EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, FDEP, JULY 2008. SEE THIS MANUAL FOR ADDITIONAL INFORMATION ON SILT FENCE TYPE, INSTALLATION, MAINTENANCE, FABRIC, ETC.

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**STATE OF FLORIDA PROFESSIONAL ENGINEER**  
 Bryant King, P.E.  
 Florida Engineer # 191994  
 PROJECT NO.: 10-0547.004  
 SCALE: NONE  
 DATE: 07/11/14  
 DRAWING: 19

DESIGNED BY: [ ]  
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EROSION CONTROL NOTES AND DETAILS  
 DIMENSIONS AND NOTES TAKE PRECEDENCE



1. THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED.
2. USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF, BUT NOT BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING (FROM NATIVE SPECIES ONLY), SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECK BERMS, STRAW BALES, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE.

SHOULD TEMPORARY GRASSING, SODDING, OR SEEDING BE REQUIRED TO STABILIZE SOIL AND REDUCE EROSION, THE TYPE AND APPLICATION MUST BE APPROVED BY PARK MANAGER PRIOR TO USE.

3. EROSION CONTROL PLAN

a) A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR. CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE STRAW BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.

b) THE CONTRACTOR SHALL PREPARE A SWPPP DOCUMENT IN ACCORDANCE WITH THE NPDES REQUIREMENTS OUTLINED BY THE US ENVIRONMENTAL PROTECTION AGENCY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

c) THE CONTRACTOR SHALL PROVIDE CONTINUOUS MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES TAKEN.

d) THE APPROVED SWPPP SHALL BE EXECUTED BY THE CONTRACTOR AND THE DOCUMENT SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE OWNER'S REPRESENTATIVE AND BY NPDES INSPECTORS.

4. STOCKPILING MATERIAL

NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY. STOCKPILE MATERIAL SHALL HAVE EROSION CONTROLS ON THREE(S) DOWNHILL SIDE SLOPES.

5. EXPOSED AREA LIMITATION

THE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING SHALL NOT EXCEED 8 ACRES SO LONG AS THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

6. INLET PROTECTION

INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

7. TEMPORARY SEEDING

AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDING WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 LBS. PER ACRE.

8. TEMPORARY SEEDING AND MULCHING.

SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN 4 ABOVE, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATE 2 INCHES LOOSE MEASURE OF MULCH MATERIAL OUT INTO THE SOIL OF SEEDING AREA TO A DEPTH OF FOUR INCHES. SEE NOTE 2.

9. TEMPORARY GRASSING

THE SEEDING AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. SEE NOTE 2.

10. TEMPORARY REGRASSING

IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER. SEE NOTE 2.

11. MAINTENANCE

ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

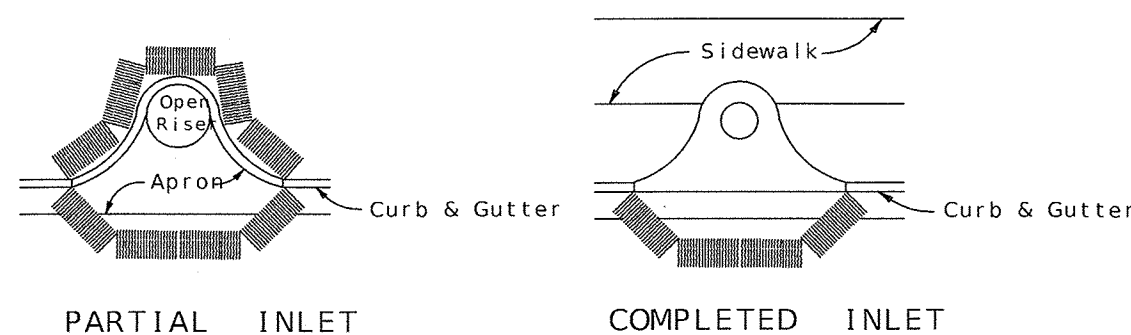
12. DUST ABATEMENT

DUST SHALL BE CONTROLLED WITH THE USE OF WATER AND CALCIUM CHLORIDE.

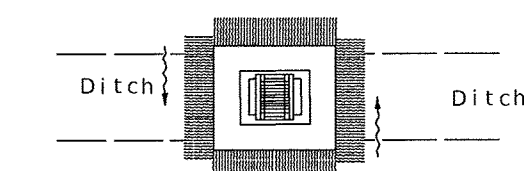
13. TEMPORARY ROCK CHECK DAM

TEMPORARY ROCK CHECK DAM SHALL BE INSTALLED PRIOR TO ANY WORK IN DITCH, AND SHALL BE REMOVED UPON CLEAN-UP.

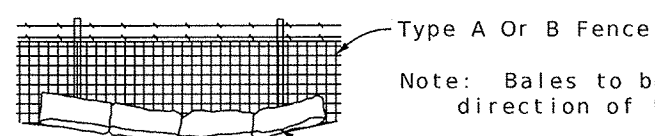
USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF, BUT NOT BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING, SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECKS BERMS, BALED STRAW OR STRAW, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE. THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON



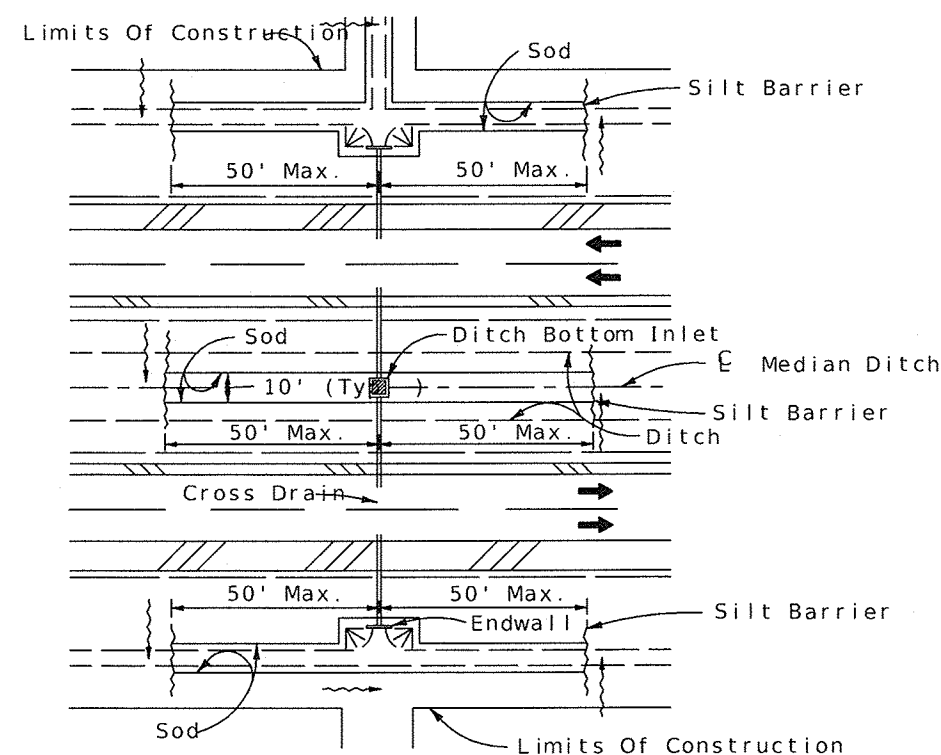
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



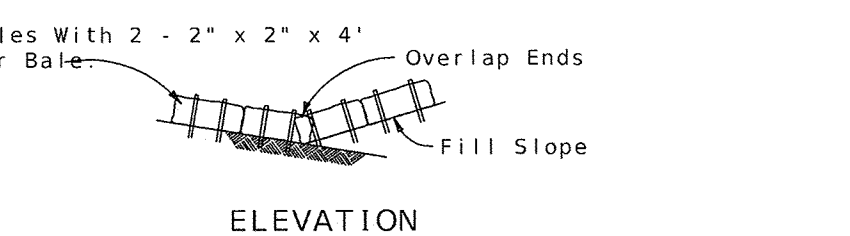
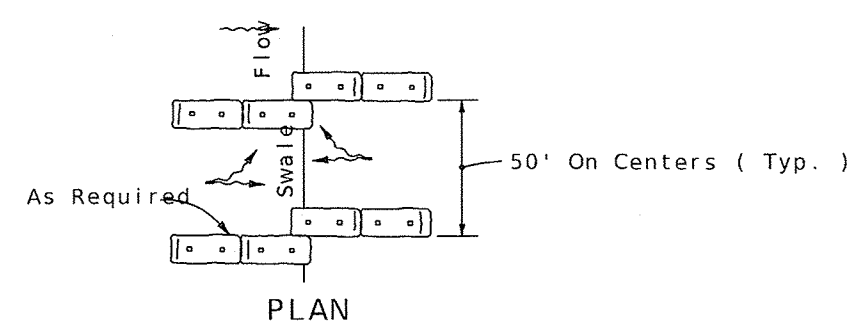
Anchor Bales With 2 - 2" x 2" x 4' Stakes Per Bale.



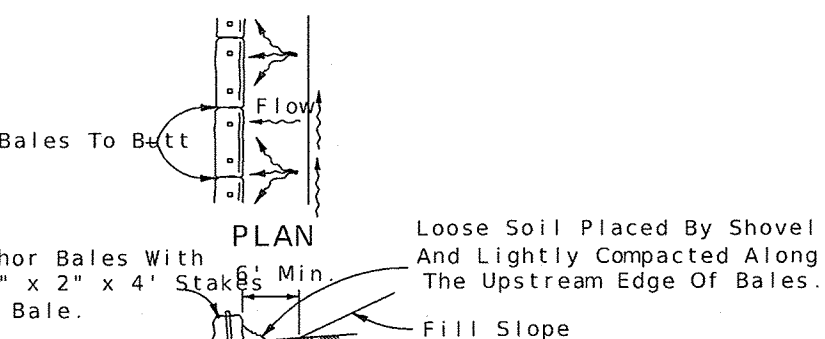
BALES BACKED BY FENCE



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

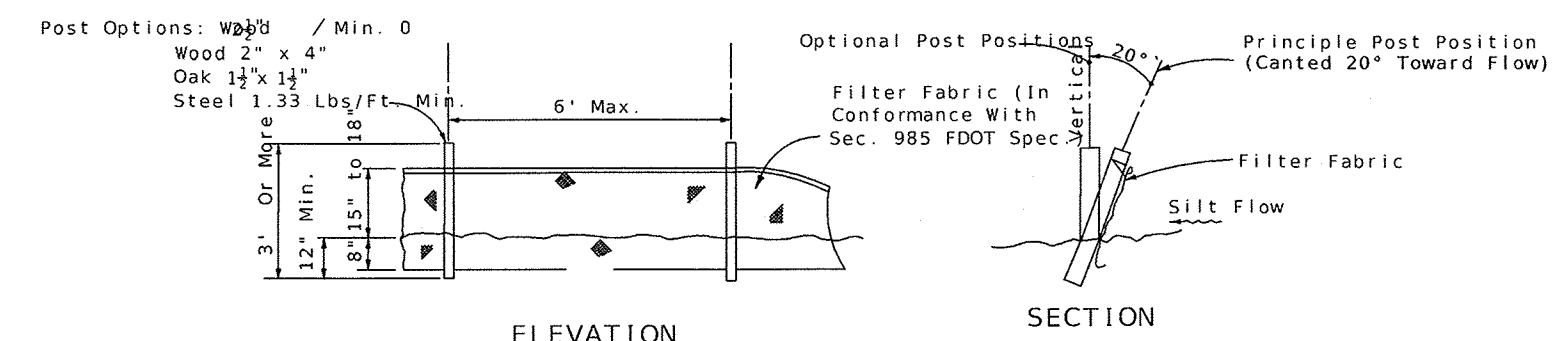


TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



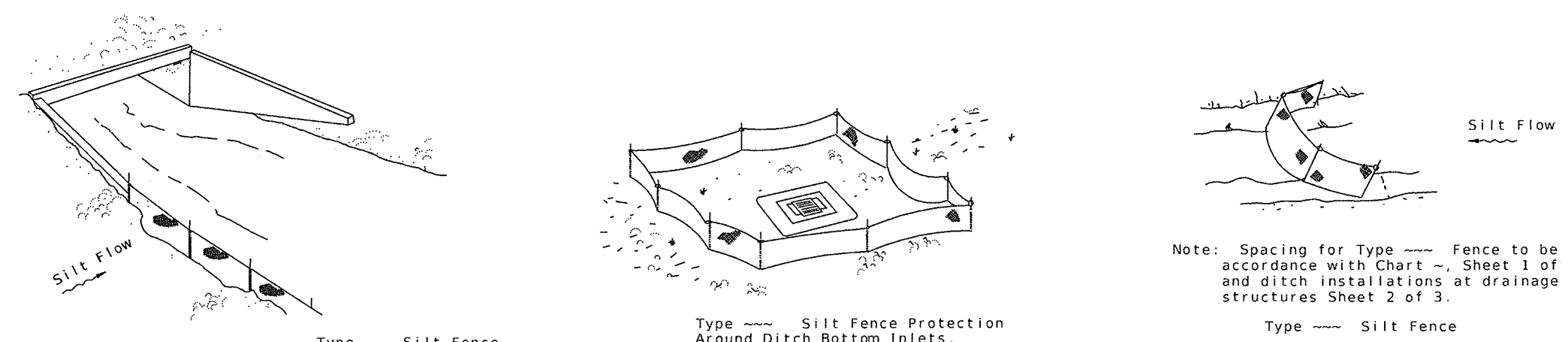
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



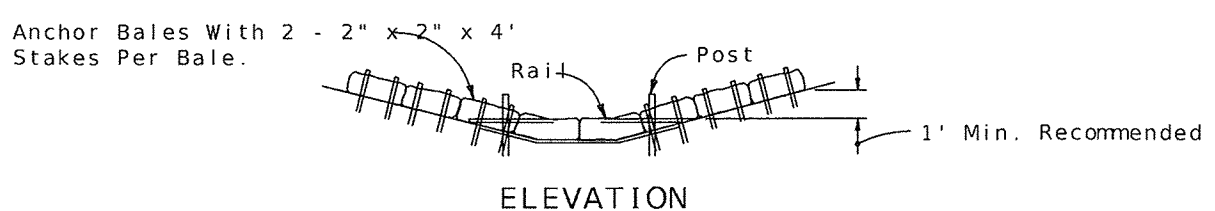
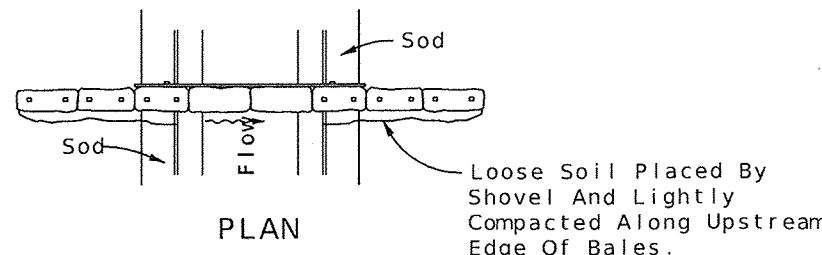
Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

TYPE I SILT FENCE



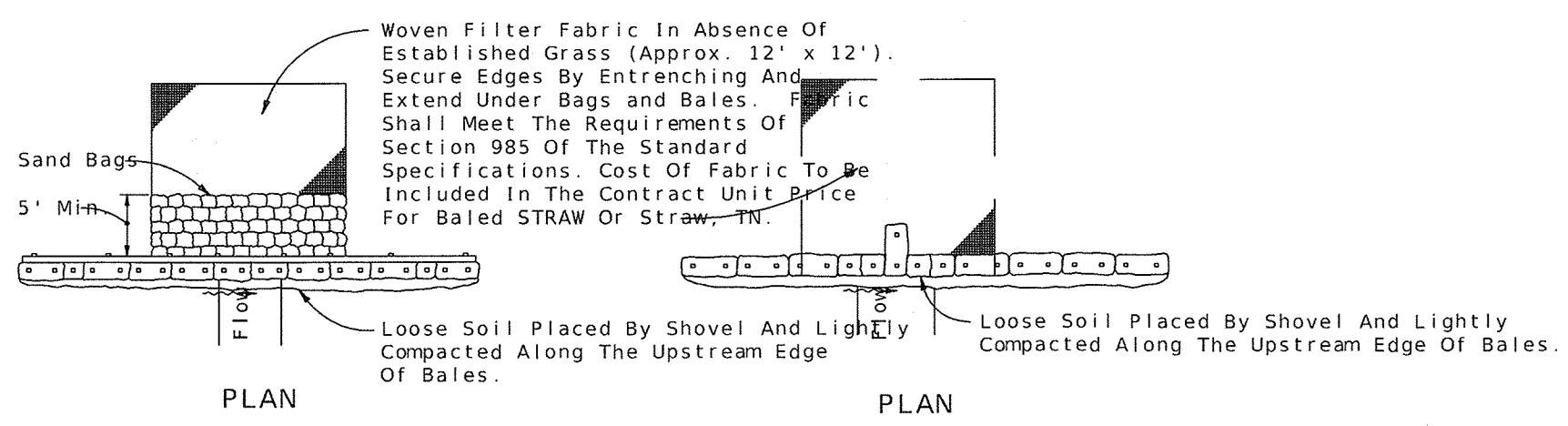
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



Spacing: Bale barriers for paved ditches should be spaced in accordance with Chart I, Sheet 1 of 3, Index No. 102

BARRIER FOR PAVED DITCH

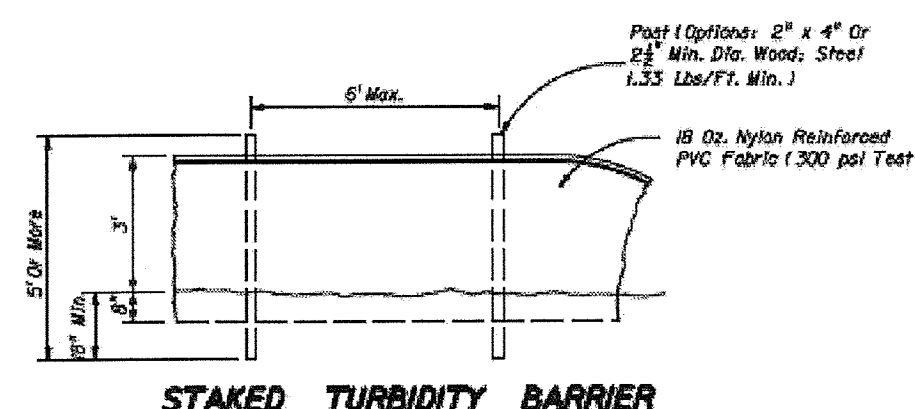


Anchor Lower Bales With 2 - 2" x 2" x 4' Stakes Per Bale. Anchor Top Bales To Lower Bales With 2 - 2" x 2" x 4' Stakes Per Bale

Application and Spacing: The use of Types I & II bale barriers should be limited to the conditions outlined in Chart I, Sheet 1 of 3, Index No. 102

TYPE II BARRIER FOR UNPAVED DITCHES

BALED STRAW OR STRAW BARRIER AND SILT FENCES



STAKED TURBIDITY BARRIER

REVISIONS	NO.	DATE	DESCRIPTION	BY
DESIGNED BY	ENG			
DRAWN BY	ENG			
CHECKED BY	BAK			
APPROVED BY	BAK			

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

EROSION CONTROL NOTES & DETAILS  
 FRED GEORGE  
 BASIN GREENWAY  
 EMP SUBMITTAL  
 LEON COUNTY, FLORIDA

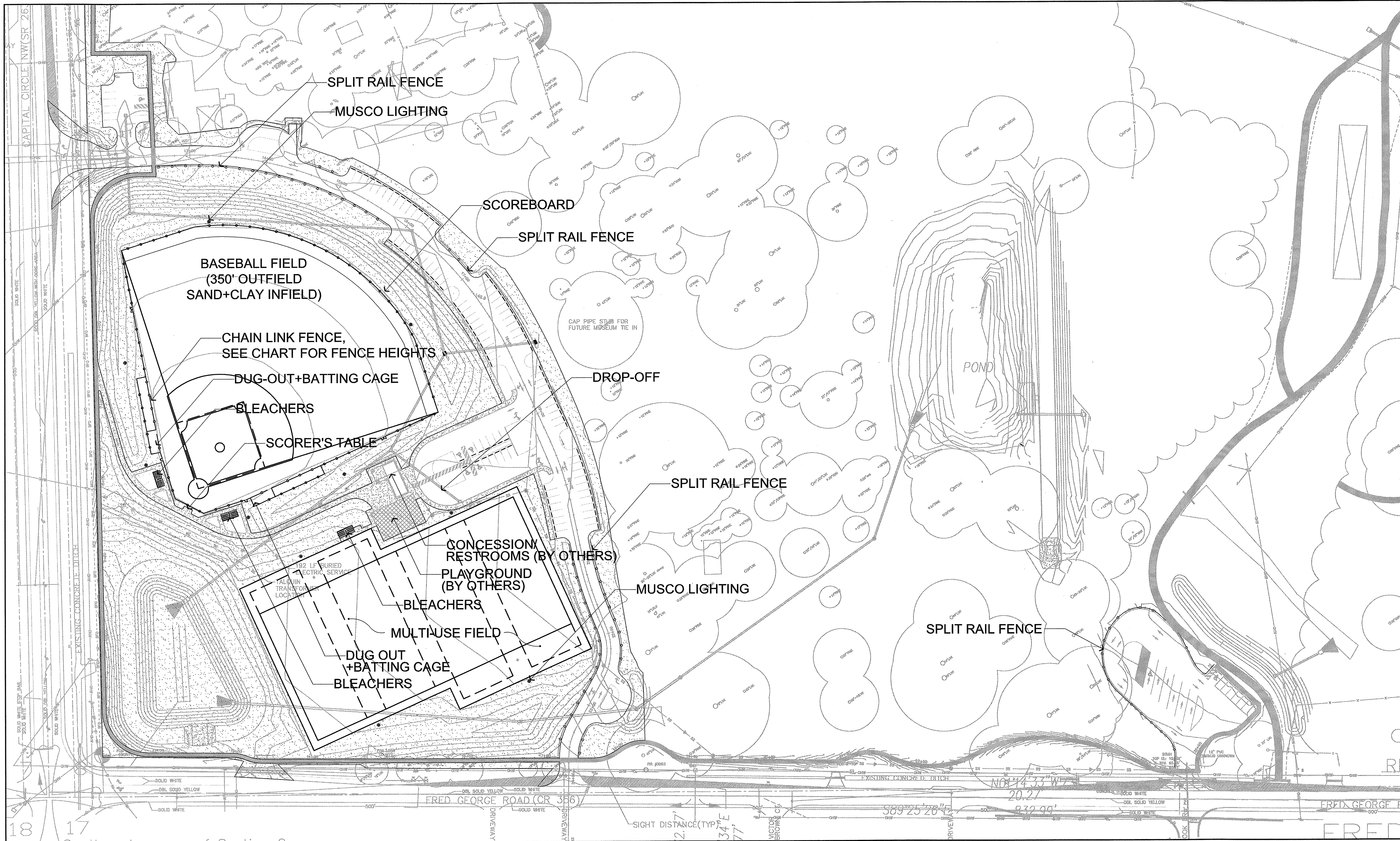
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 1435 East Piedmont Drive, Suite 210  
 Tallahassee, Florida 32304  
 Phone: 850-592-8900 WWW.DRMP.COM

BRYANT KING  
 LICENSE  
 No. 51994  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

Bryant King, P.E.  
 Florida Engineer # 51994  
 PROJECT NO.: 10-0547-004  
 SCALE: NONE  
 DATE: 07/11/14  
 DRAWING: 20





NO.	DATE	DESCRIPTION	BY

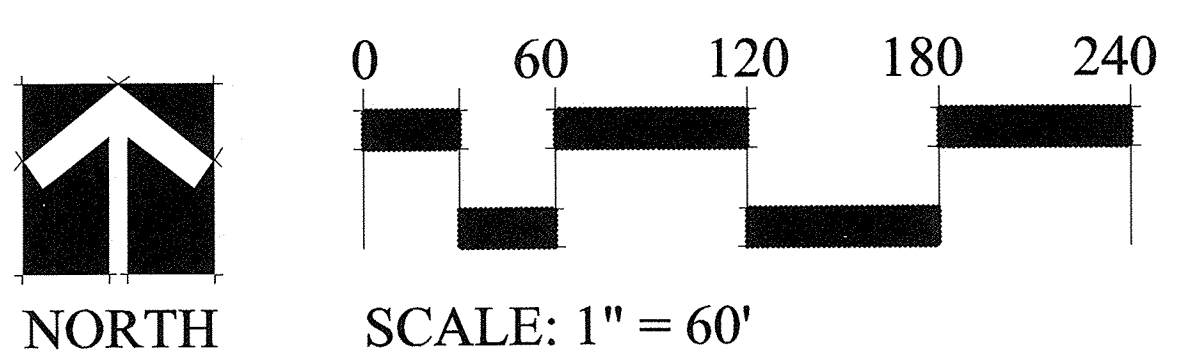
DESIGNED BY	PH
DRAWN BY	PH
CHECKED BY	SK
APPROVED BY	SK

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 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
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 FAX (850) 606-1501

LANDSCAPE PLAN  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA

**DRMP**  
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 1435 East Piedmont Drive, Suite 210  
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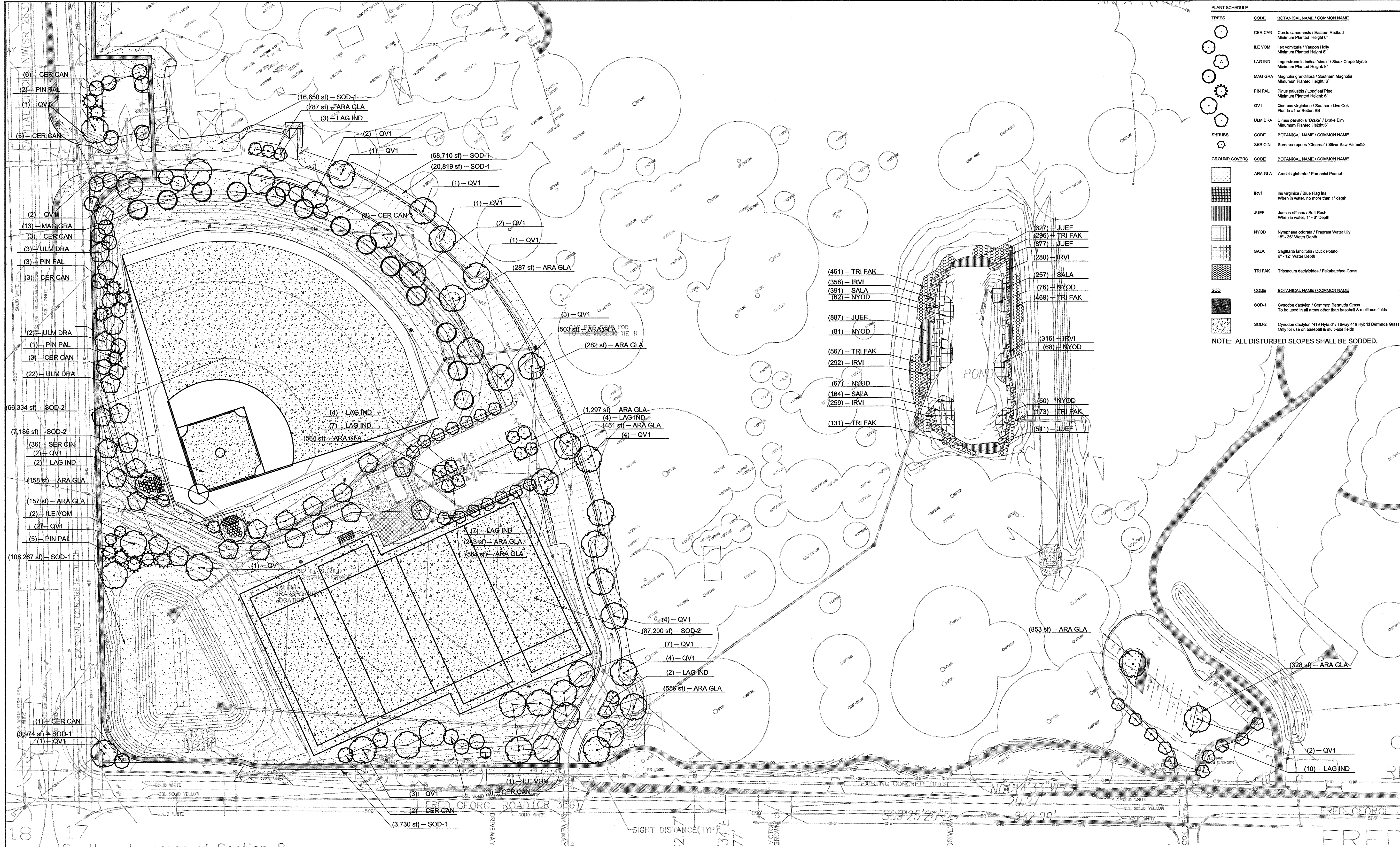
MARK L BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. LA666776  
 PROJECT NO.: 10-0547-004  
 SCALE: 1" = 60'  
 DATE: 07/31/2014  
 DRAWING: LA-1



**TYPICAL FENCE HEIGHTS:**  
 RIGHT/LEFT FIELD LINES: 6' TYPICAL  
 BACKSTOP: 22' HIGH  
 BATTER'S EYE (CENTER OUTFIELD): 60' WIDE X 30' HIGH

**Wood+Partners Inc. WPI**  
 Landscape Architects  
 Land Planners  
 FL LC#0000364  
 612 South Copeland Tallahassee, Florida 32304  
 850.391.0360 Fax 866.305.6286 http://www.woodandpartners.com





TREES	
CODE	BOTANICAL NAME / COMMON NAME
CER CAN	Cedrus canadensis / Eastern Redbud Minimum Planted Height: 6'
ILE VOM	Ilex vomitoria / Yaupon Holly Minimum Planted Height: 6'
LAG IND	Lagotis indica 'Isour' / Sioux Cape Myrtle Minimum Planted Height: 6'
MAG GRA	Magnolia grandiflora / Southern Magnolia Minimum Planted Height: 6'
PIN PAL	Pinus palustris / Longleaf Pine Minimum Planted Height: 6'
QV1	Quercus virginiana / Southern Live Oak Florida #1 or Better: 6B
ULM DRA	Ulmus parviflora 'Duke' / Duke Elm Minimum Planted Height: 6'
SHRUBS	
CODE	BOTANICAL NAME / COMMON NAME
SER CIN	Serenoa repens 'Cinerea' / Silver Saw Palmetto
GROUND COVERS	
CODE	BOTANICAL NAME / COMMON NAME
ARA GLA	Arachis glabrata / Perennial Peanut
IRVI	Iris virginica / Blue Flag Iris When in water, no more than 1' depth
JUEF	Juncus effusus / Soft Rush When in water, 1' - 2' Depth
NYOD	Nymphaea odorata / Fragrant Water Lily 18" - 36" Water Depth
SALA	Sagittaria latifolia / Duck Potato 6" - 12" Water Depth
TRI FAK	Tripsacum dactyloides / Fakahatchee Grass
SOD	
CODE	BOTANICAL NAME / COMMON NAME
SOD-1	Cynodon dactylon / Common Bermuda Grass To be used in all areas other than baseball & multi-use fields
SOD-2	Cynodon dactylon '419 Hybrid' / Tifway 419 Hybrid Bermuda Grass

NOTE: ALL DISTURBED SLOPES SHALL BE SODDED.

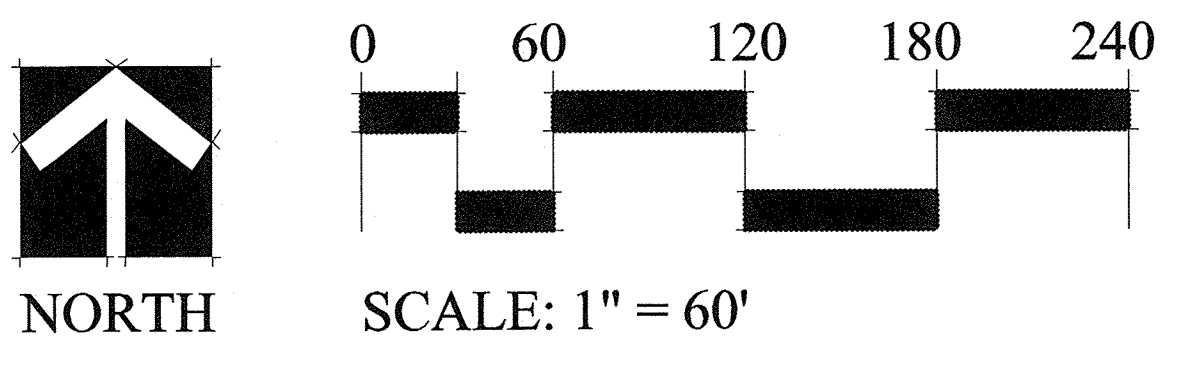
REVISION	NO.	DATE	DESCRIPTION	BY					
					PH	PH	SK	SK	
DESIGNED BY									
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CHECKED BY									
APPROVED BY									

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
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 TALLAHASSEE, FL 32308  
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LANDSCAPE PLAN  
**FRED GEORGE GREENWAY**  
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MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. LA698676  
 PROJECT NO.: 10-0547.004  
 SCALE: 1" = 60'  
 DATE: 07/31/2014  
 DRAWING: LA-2










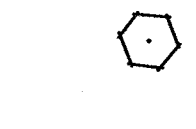
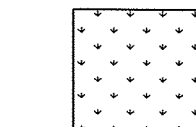
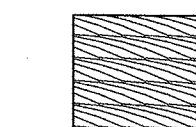
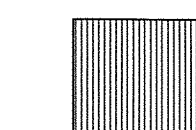
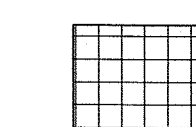
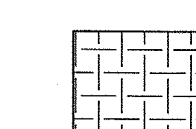
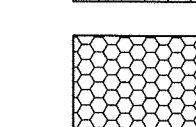


See sheets LA-3 - LA-5 for complete plant list and planting details

NOTE: TREE LOCATIONS HAVE CHANGED FROM THE EMP PLANS. TREE COUNT AND TYPE REMAINS THE SAME.

**Wood+Partners Inc. WPI**  
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 Land Planners  
 FL LC#000364  
 812 South Copeland ■ Tallahassee, Florida 32304  
 850.391.0360 ■ Fax 866.305.6286 ■ http://www.woodandpartners.com



**PLANTING SCHEDULE:**

TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY	
	CER CAN	Cercis canadensis / Eastern Redbud Minimum Planted Height 6'	FG	1 1/2" CAL.	20-30'	29	
	ILE VOM	Ilex vomitoria / Yaupon Holly Minimum Planted Height 8'	FG	Multi Trunk	15-25'	3	
	LAG IND	Lagerstroemia indica 'sioux' / Sloux Crape Myrtle Minimum Planted Height: 8'	FG	Multi Trunk	15-20'	39	
	MAG GRA	Magnolia grandiflora / Southern Magnolia Minimum Planted Height: 6'	FG	2" CAL.	60-80'	13	
	PIN PAL	Pinus palustris / Longleaf Pine Minimum Planted Height: 6'	FG	2" CAL.	60-80'	11	
	QV1	Quercus virginiana / Southern Live Oak Florida #1 or Better; BB	FG	5.5"	17-28'	44	
	ULM DRA	Ulmus parvifolia 'Drake' / Drake Elm Minimum Planted Height 6'	FG	2" CAL.	40-50'	27	
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	SIZE	HT	SPR	QTY
	SER CIN	Serenoa repens 'Cinerea' / Silver Saw Palmetto	7 GAL.		24-36"	24"-36"	36
GROUND COVERS	CODE	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY		
	ARA GLA	Arachis glabrata / Perennial Peanut	Turf		7,030 sf		
	IRVI	Iris virginica / Blue Flag Iris When in water, no more than 1" depth	1 GAL.	18" o.c.	1,505		
	JUEF	Juncus effusus / Soft Rush When in water, 1" - 3" Depth	1 GAL.	12" o.c.	2,902		
	NYOD	Nymphaea odorata / Fragrant Water Lily 18" - 36" Water Depth	4" pot	30" o.c.	404		
	SALA	Sagittaria lancifolia / Duck Potato 6" - 12" Water Depth	4" pot	24" o.c.	812		
	TRI FAK	Tripsacum dactyloides / Fakahatchee Grass	1 GAL.	18" o.c.	2,097		
SOD	CODE	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY		
	SOD-1	Cynodon dactylon / Common Bermuda Grass To be used in all areas other than baseball & multi-use fields	Turf		222,149 sf		
	SOD-2	Cynodon dactylon '419 Hybrid' / Tifway 419 Hybrid Bermuda Grass Only for use on baseball & multi-use fields	Turf		160,719 sf		

**MINIMUM LANDSCAPE REQUIREMENTS**

**PLANT MATERIAL SIZING**

- 8'-0" HEIGHT, 2" CALIPER, MINIMUM.
- SHALL NOT BE PLANTED CLOSER THAN 3'-0" FROM THE EDGE OF ANY IMPERVIOUS AREA.
- AVERAGE MATURE CROWN SPREAD SHALL BE 20'-0" OR GROUPED AS TO CREATE A CROWN OF 20'-0".
- WHERE UNDERGROUND UTILITIES CONFLICT WITH PROPOSED PLANTINGS, TREE PLACEMENT SHALL BE A MINIMUM OF 10'-0" FROM THE UNDERGROUND UTILITY AND A ROOT BARRIER OF 2'-0" DEEP SHALL BE INSTALLED.

**SHRUBS:**

- 18" HEIGHT, 15" SPREAD AT MATURITY.
- SHALL NOT BE PLANTED CLOSER THAN 3'-0" FROM THE EDGE OF ANY IMPERVIOUS AREA.

**GROUND COVER:**

- (OTHER THAN LAWN GRASS) SHALL BE PLANTED SO AS TO PROVIDE 75 PERCENT COVERAGE WITHIN ONE YEAR OF PLANTING.

**LAWN GRASSES:**

- SHALL BE A PERENNIAL SPECIES CAPABLE OF THRIVING IN LEON COUNTY, FLORIDA.

**MULCH:**

- 2" MINIMUM DEPTH AND NOT TO EXCEED 3" DEPTH. CYPRESS MULCH IS NOT ALLOWED.

**GENERAL DETAIL NOTES:**

- ALL DIMENSIONS PROVIDED FOR WOODEN MATERIALS ARE NOMINAL.
- 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. WIRE BASKETS MUST BE COMPLETELY REMOVED PRIOR TO INSTALLATION.
- ROOTFLARES SHALL BE SET 1" ABOVE FINISHED GRADE AND SET PLUMB TO THE HORIZON.
- BACKFILL SHALL BE LOOSENEED EXISTING SOIL, REMOVE ROCKS, STICKS, OR OTHER DELETERIOUS MATERIAL GREATER THAN 1" IN ANY DIRECTION PRIOR TO BACKFILLING. WATER AND TAMP TO REMOVE AIR POCKETS. IF EXISTING SOILS CONTAIN EXCESSIVE SAND, CLAY, OR OTHER MATERIAL NOT CONDUCTIVE TO PROPER PLANT GROWTH

- (CONT.) CONTACT OWNER'S REPRESENTATIVE PRIOR TO PLANTING. A SOIL TEST TO CONFIRM ADHERENCE TO THE SPECIFICATIONS FOR ANY STOCKPILED OR IMPORTED SOIL WILL BE REQUIRED. SEE SPECIFICATIONS FOR REQUIRED TESTING DATA AND AMEND THE SOIL AS REQUIRED BY THE SOIL TEST.
- SOIL BERMS SHALL BE CONSTRUCTED OF EXISTING SOIL AT THE OUTER EDGE OF THE PLANTING PIT WITH A HEIGHT AND WIDTH OF 6".
- REFER TO THE PLANTING DETAIL FOR TREE STABILIZATION.
- ALL TREE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LEON COUNTY CODE OF ORDINANCES AND LAND DEVELOPMENT CODE.
- 3' OF NON-COMPACTED FRIABLE FILL SHALL BE PLACED IN LANDSCAPE ISLANDS

**PLANTING DETAIL NOTES:**

- THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL. FERTILIZATION WILL BE AS RECOMMENDED BY SOIL TESTS.
- THE CONTRACTOR SHALL ENSURE ALL TREES AND PLANTS ARE HEALTHY AND FLORIDA #1 OR BETTER.
- THE CONTRACTOR SHALL APPLY ORGANIC HERBICIDES ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ALL PLANTING BEDS.
- CONTAINER GROWN STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ALL THE SOIL TOGETHER FIRMLY, BUT NOT LONG ENOUGH TO HAVE BECOME POT BOUND.
- FOR DISTURBED AREAS OF EXISTING SOD, CONTRACTOR TO INSTALL SOD OF THE SAME SPECIES. THE CONTRACTOR SHALL LAY SOD SOLIDLY IN ALL INDICATED OR DISTURBED AREAS WITH JOINTS IN CONTACT WITH EACH OTHER. PIN ALL SODDED SLOPES GREATER THAN 3:1 WITH STEEL U PINS/SOD STAPLES.
- ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

- THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS OR REVISIONS WITHOUT THE OWNER'S REPRESENTATIVE PRIOR APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, LITTER REMOVAL, REMOVAL OF UNDESIRABLE VEGETATION, MAINTENANCE AND EDGING OF BEDLINES, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL KEEP ALL AREAS OF WORK CLEAN, NEAT AND ORDERLY. ALL PAVED SURFACES ARE TO BE CLEANED OF SOIL AND DEBRIS AT THE CLOSE OF THE WORK DAY.
- EACH TREE AND SHRUB SHALL BE PRUNED AS NEEDED TO REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN/DAMAGED BRANCHES. ALL PRUNING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL PRESERVE THE NATURAL HABIT AND CHARACTER OF THE PLANT.

- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANTED AREAS IN ADDITION TO IRRIGATED AREAS FOR PLANT ESTABLISHMENT THROUGH WARRANTY PERIOD.
- THE CONTRACTOR SHALL APPLY 3" FREE/WEED FREE MULCH TO PLANTED AREAS AT A MINIMUM 3" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, I.E. WOOD FIBER. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. LIMITS OF MULCHING SHALL BE AS SHOWN ON PLAN, OR FOR INDIVIDUAL PLANTS, THE AREA OF THE PLANTING PIT, SEE PLANTING DETAILS.

- CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
- PLANTS WITH BROKEN ROOT BALLS, BOUND ROOTS OR SUBSTANTIAL DAMAGE TO ANY PART SHALL BE REPLACED PRIOR TO PLANTING.

- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED ON THE PLANS. ALL TREES SHALL BE FLORIDA #1 OR BETTER AT TIME OF INSTALLATION. PROVIDE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS (I.E. APPROVED MULCH, FERTILIZER, ETC.) LABOR, ETC. REPORT PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.

- CONTRACTOR SHALL STAKE TREES FOR APPROVAL PRIOR TO INSTALLATION. ANY CONFLICTS OR DISCREPANCIES SHALL BE FIELD ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

- NO TREE PLANTING SHALL OCCUR WITHIN APPLICABLE SIGHT DISTANCE TRIANGLE AREAS AS SPECIFIED BY DESIGN STANDARD INDEX 546 AS PUBLISHED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION AT THE TIME OF INSTALLATION. CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREE PLANTINGS IN THE RIGHT-OF-WAY IN THE FIELD PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. OWNER SHALL AGREE TO MAINTAIN THE STRUCTURE OF TREE PLANTINGS IN THE RIGHT-OF-WAY TO ELIMINATE SIGHT DISTANCE CONFLICTS.

- SHRUBS, ORNAMENTAL GRASSES, AND GROUNDCOVERS SHALL BE LAID OUT ON THE GROUND FOR APPROVAL BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ANTICIPATE THAT SOME RE-ARRANGEMENT OF MATERIAL WILL OCCUR.

- PROVIDE THE OWNER AND OWNER'S REPRESENTATIVE WITH SEVEN CALENDAR DAYS ADVANCE NOTICE OF COMPLETING INSTALLATION OF ALL PLANTS AND INCIDENTAL LANDSCAPING. THE ESTABLISHMENT PERIOD WILL BEGIN UPON ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANTS BY THE OWNER. NOT LESS THAN FORTY-FIVE DAYS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION, THE MAINTENANCE SCHEDULE IS LOCATED ON SHEET 16 AND ADDRESSES THE FOLLOWING IN MORE DETAIL:

- KEEP ALL PLANTS INSTALLED AS SPECIFIED IN THESE PLANS.
- KEEP ALL PLANTS UNMAYED, INCLUDING FREE OF PESTS AND DISEASE, PROPERLY HYDRATED AND NOURISHED, TO SUPPORT TO GROWTH AND MAINTAIN FORM AND HABIT SPECIFIED IN THESE PLANS.
- KEEP ALL PLANTS PRUNED TO MAINTAIN PLANT HEALTH, CLEAR VISIBILITY OF SIGNS, TRAFFIC SIGNALS, SAFE SIGHT DISTANCE AT INTERSECTIONS AND DRIVEWAYS, SAFE AND OPERATIONAL HORIZONTAL AND VERTICAL CLEARANCE FROM ROADWAYS, SIDEWALKS, UTILITIES, LIGHT POLES, MECHANICALS EQUIPMENT, FENCES, WALLS AND DRAINAGE STRUCTURES, AND UNOBSTRUCTED ACCESS FOR ALL AUTHORIZED USERS.
- KEEP THE INDIVIDUAL PLANT LOCATIONS AND PLANT BEDS FREE OF LITTER AND UNDESIRABLE VEGETATION.
- KEEP LANDSCAPE BEDS EDGING CORRECTLY LOCATED AND TRIMMED, AND THE MULCH GROOMED AND REPLENISHED AS SPECIFIED IN THESE PLANS.
- OPERATE AND MAINTAIN ALL COMPONENTS OF ANY IRRIGATION SYSTEM AS SPECIFIED IN THE PLANS WHEN INSTALLED AS PART OF THE CONTRACT.
- CONTINUE MOWING AND LITTER PICK UP OF THE TURF AREAS.

- ALL PLANT MATERIAL SHALL BE WARRANTED FOR A 1-YEAR PERIOD AFTER FINAL ACCEPTANCE BY THE CONTRACTOR TO BE IN FLOURISHING CONDITION OF ACTIVE GROWTH AS INDICATED IN SPECIFICATIONS. AT THE END OF THE 1-YEAR PERIOD, ALL TREES AND PLANTS SHALL BE FLORIDA #1 OR BETTER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MONITOR THE PROJECT DURING THE WARRANTY PERIOD AND INFORM THE OWNER IF PROBLEMS DEVELOP WITH THE PLANT MATERIAL. THE CONTRACTOR SHALL REMOVE DEAD AND UNHEALTHY PLANTS IMMEDIATELY AND REPLACE AT THE CONTRACTOR'S EXPENSE. WITHIN THE 1-YEAR PERIOD, THERE SHALL BE EVALUATION OF MAINTENANCE BY OWNER'S REPRESENTATIVE AND, IF NEEDED, CORRECTIVE ACTION TAKEN BY CONTRACTOR. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO END THE MAINTENANCE SERVICES AT ANY POINT FOR ANY REASON.

- PLANTS SHALL BE DEEMED DEAD IF THE TERMINAL LEADER DIES OR THE PLANT HAS LESS THAN 30% VIABLE LEAF SURFACE AREA.

- WHEN CONFLICTS EXIST BETWEEN THE SPECIFICATIONS AND THESE PLANS, THE SPECIFICATIONS SHALL PREVAIL.

**ENVIRONMENTAL MANAGEMENT DEVELOPMENT STANDARDS SUMMARY TABLE**

SECTION	DESCRIPTION	AMOUNT
10-4.344	LANDSCAPE AREA	
	TOTAL PROJECT AREA:	29.77 AC
	REQUIRED LANDSCAPE AREA (20% MINIMUM):	5.95 AC
	PROVIDED LANDSCAPE AREA:	8.74 AC
10-4.345	NATURAL AREA	
	TOTAL SITE AREA:	157.7 AC
	REQUIRED NATURAL AREA (25% MINIMUM):	39.43 AC
	PROVIDED NATURAL AREA:	102.80 AC
10-4.347	LANDSCAPE DESIGN STANDARDS FOR PERIMETER AND INTERIOR AREAS	
	VEHICULAR USE AREA:	82,494 SF
	REQUIRED ISLANDS (1@ 400 SF PER 5,000 SF OF VUA)	16 ISLANDS
	PROVIDED ISLANDS (MIN 400 SF @ 12')	16 ISLANDS
10-4.349	REFORESTATION	
	TOTAL SITE AREA:	29.77 AC
	REQUIRED TREES (40 TREE CREDITS PER ACRE):	1191 CR
	TREE CREDITS PRESERVED:	1086 CR
	TREE CREDITS PLANTED:	430 CR
	PROVIDED TREES:	1516 CR
	PROVIDED TREE CREDITS PER ACRE:	50.9 CR/AC

QUAN	ABBRV	COMMON NAME	BOTANICAL NAME	Credit Points (Each)	Credit Points (Total)	Size (DBH)
29	CER CAN	Eastern Redbud	Cercis canadensis	1	29	1.5"
3	ILE VOM	Yaupon Holly	Ilex vomitoria	1	3	2"
39	LAG IND	Crape Myrtle	Lagerstroemia indica	1	39	2"
13	MAG GRA	Southern Magnolia	Magnolia grandiflora	1	13	2"
11	PIN PAL	Longleaf Pine	Pinus palustris	1	11	2"
44	QV1	Southern Live Oak	Quercus virginiana	1	308	5.5"
27	ULM DRA	Drake Elm	Ulmus parvifolia 'Drake'	1	27	2"
				Total Credits	430	

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R	E	V	I	S	I	O	N	S	BY			
									DESCRIPTION	DATE	NO.	
									PH	PH	SK	SK

DESIGNED BY: PH  
DRAWN BY: PH  
CHECKED BY: SK  
APPROVED BY: SK

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
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LANDSCAPE DETAILS  
**FRED GEORGE GREENWAY**  
LEON COUNTY, FLORIDA

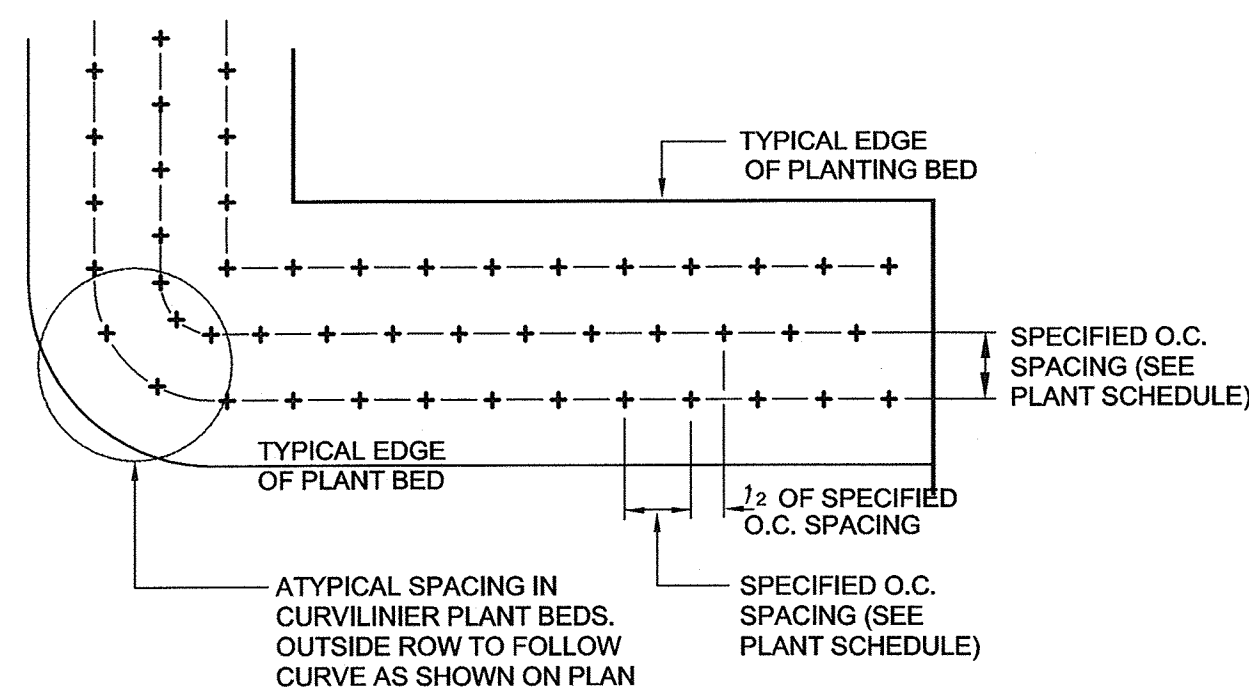
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MARK L BAKER, RLA, ASLA  
FLORIDA CERTIFICATION NO. LA6696776  
PROJECT NO.: 10-0547.004  
SCALE: As Shown  
DATE: 06/12/2014  
DRAWING: LA-3

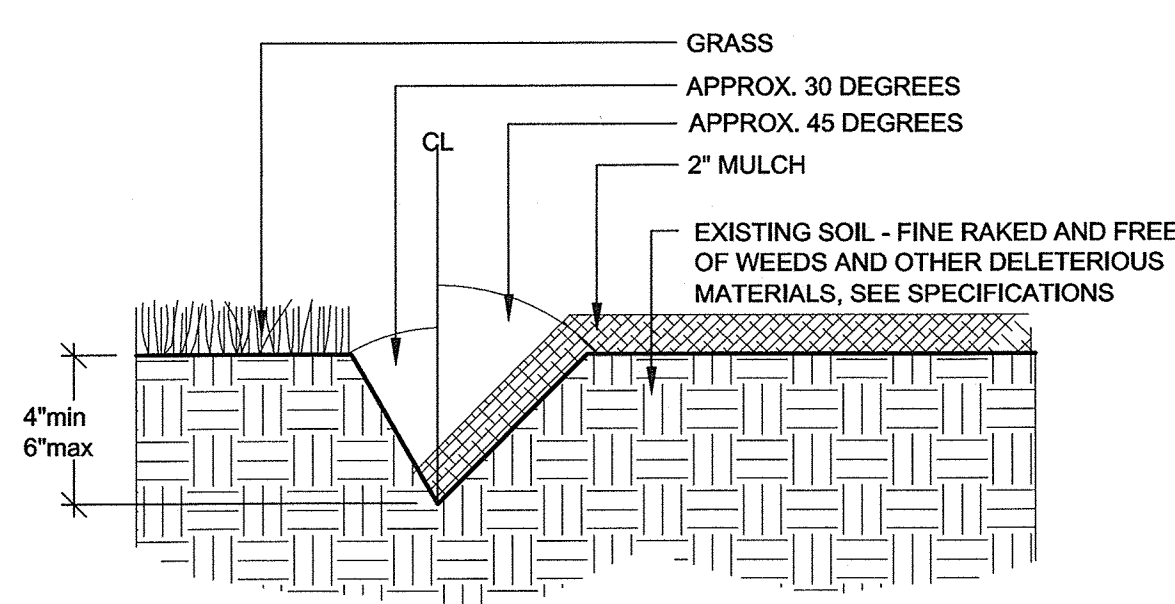






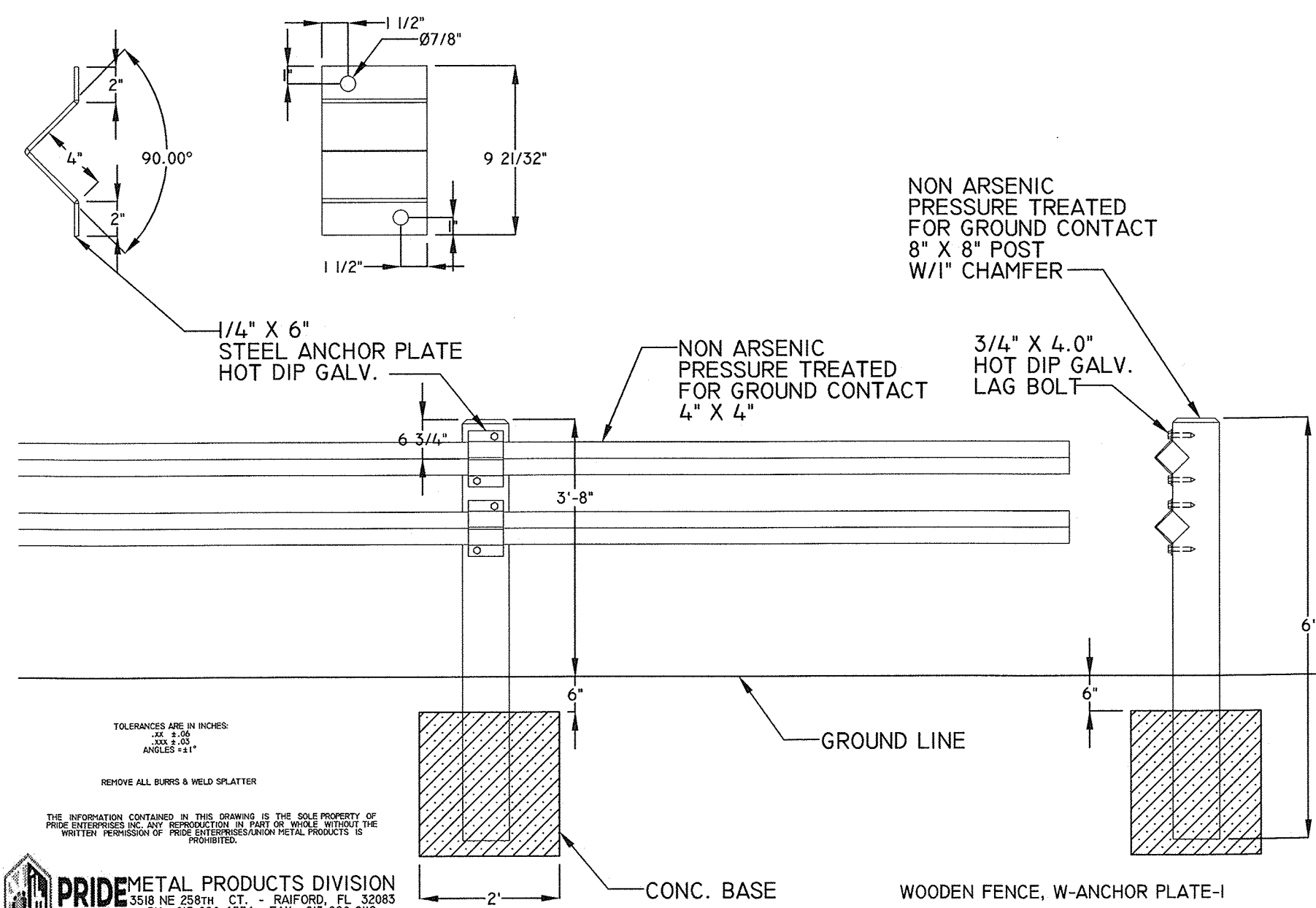


1 TYPICAL GROUND COVER SPACING  
LA-5 NOT TO SCALE



- NOTES:
- EXCAVATE TRENCH BY HAND WITH SPADE. ADD EXCESS SOIL TO ADJACENT PLANT BED AFTER PULLING BACK EXISTING MULCH, RAKE SOIL AND SMOOTH BEFORE MULCHING.
  - ALL EXISTING TREES TO BE SAVED SHALL HAVE MINIMUM OF 36 INCHES OF PINE STRAW MULCH RADIUS AROUND TRUNKS.

2 TREE MULCH RING EDGE  
LA-5 NOT TO SCALE



3 TWO RAIL WOOD FENCE  
LA-5 SCALE: 1/2" = 1'-0"

LANDSCAPE TECHNICAL MAINTENANCE PLAN												
Maintenance Operation	Operations noted herein shall be performed by the contractor during the establishment period. Assume responsibility for proper maintenance condition and plant health as set forth in the landscape plan for a period of 12 months after the final acceptance of all work under this contract.											
Week/Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mowing		X	X	XX	XX	XX	XX	XX	XX	XX		
	Mow twice per month beginning April 1 through October 31. Set mower height to avoid scalping the turf. No lower than 3 inches.											
Edging		X	X	XX	XX	XX	XX	XX	XX	XX		
	Contractor to edge landscape planting beds, sidewalks, and curbs within project limits.			Edging by mechanical edger, same frequency as mowing.								
Recommended Watering Schedule	Trees (Watering Frequency)			Shrubs (Watering Frequency)			Watering General Notes					
	<2" Caliper	Daily for two weeks; every other day for two months, weekly until established.	Month 1	Daily for the first two weeks. Every other day for the remaining two weeks.	The contractor shall water all landscape plants and turf grass as needed after establishment to meet proper maintenance conditions as described in the landscape plan and contract documents. Watering shall be the sole responsibility of the contractor until the 12 month establishment period is accepted by the owner. The contractor shall water as directed using an irrigation system or manual watering procedures as directed by the owner. Never apply irrigation if the soil is saturated. Supplemental watering is applied to encourage vigorous growth and plant establishment.							
	2-4" Caliper	Daily for one month; every other day for three months; weekly until established.	Month 2	Twice per week.								
	>4" Caliper	Daily for 6 weeks, every other day for five months, weekly until established.	Month 3	Once per week until established.								
XX	XXY	XX	XX	XX								
Weed Control	Contractor to weed all planting beds twice per month. Landscape areas shall be kept weed free.			Weeding of landscape areas utilizing appropriate selective and non-selective herbicides, applied as per manufacturer's specifications, under the supervision of a licensed applicator by FDACS. Application of herbicides shall be done with extreme caution to prevent damage to landscape and tree plantings. NOTE Y-Application of Snapshot granular herbicide at 200#/acre rate as per manufacturer's specifications and limitations.								
Pruning	Must maintain Florida #1 or better form for final acceptance at the end of the 12 month establishment period.			Pruning for trees, shrubs, and groundcovers to be performed in accordance with the ANSI A300 guidelines and FDOT design standard index 546. All trees within medians shall be pruned to maintain sight distance for vehicles and pedestrians. Additionally, prune trees as needed to remove dead, diseased, or broken branches, fronds, and seed heads.								
Fertilization	Trees and shrubs shall be fertilized using a slow release fertilizer that contains at least 50% of the available nitrogen in a slow release form. Fertilizer analysis shall be in a NPK ratio of 2-1-1, a rate recommended by soil fertility analysis.			Trees, shrubs, and ground covers are to be fertilized by top dressing the root zone of the plants and trees, using owner approved methods. This application of fertilizer shall be irrigated within two days of application with a minimum of 1/2" of irrigation. Contractor shall submit fertilizer label for approval. All materials and performance of work shall meet Florida Friendly Best Management Practices for the Protection of Water Resources by the Green Industry and all other applicable state and federal health and safety laws. Prior to the application of the first application of fertilizer, the contractor shall perform a soil analysis to determine the fertility needs and application rates required based upon the results. A minimum of 1 sample per half acre shall be taken and submitted for testing. These sample sites shall be random in nature, but no two samples shall occur from the same sampling area.								
Litter Removal	X	X	X	XX	XX	XX	XX	XX	XX	XX	X	X
	Litter removal within the project limits. To be completed in conjunction with the mowing schedule, but immediately prior to mowing. The months of November, December, and January shall also have litter removed once per month.											
Mulching 3" Depth Pine Bark Nuggets	Mulch should be applied after landscape material has been installed and air pockets have been filled.			Mulch shall be free of vegetative yard waste, plastic, glass, metal, palm fronds, sand, and other foreign materials. Mulch shall be consistent in appearance. Mulch shall be free from viable non-native seed, weed, and grass seed. Maintain a continuous 3" layer of mulch in all planted and mulched areas with the exception of trees. Mulch shall not cover the root ball of any landscape tree. Mulch entire site in month 12 of maintenance/establishment period. Mulch shall be approved by the owner prior to installation.								
Tree Staking	Stake and Guy trees at time of installation.			The contractor shall maintain, repair, and/or replace all staking materials as needed to keep trees upright and to prevent girdling. The contractor shall remove staking at the end of the one year establishment period or as directed by the owner. Refer to landscape details for staking and guying.								
Disease and Insect Control	X	X	X	X	X	X	X	X	X	X	X	X
	Contractor to inspect all landscape material on a monthly basis for insects, mites, fungus, etc., and apply correct control products as needed per manufacturer's specification; to prevent landscape material from falling below the minimum maintenance condition outlined in the landscape plan and contract documents.											
Plant Material Replacement	The contractor shall replace all dead and substandard material (see Landscape plan and contract documents) within 10 days after receiving written notification.											

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LANDSCAPE DETAILS  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA

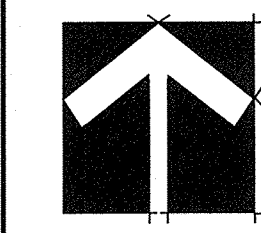
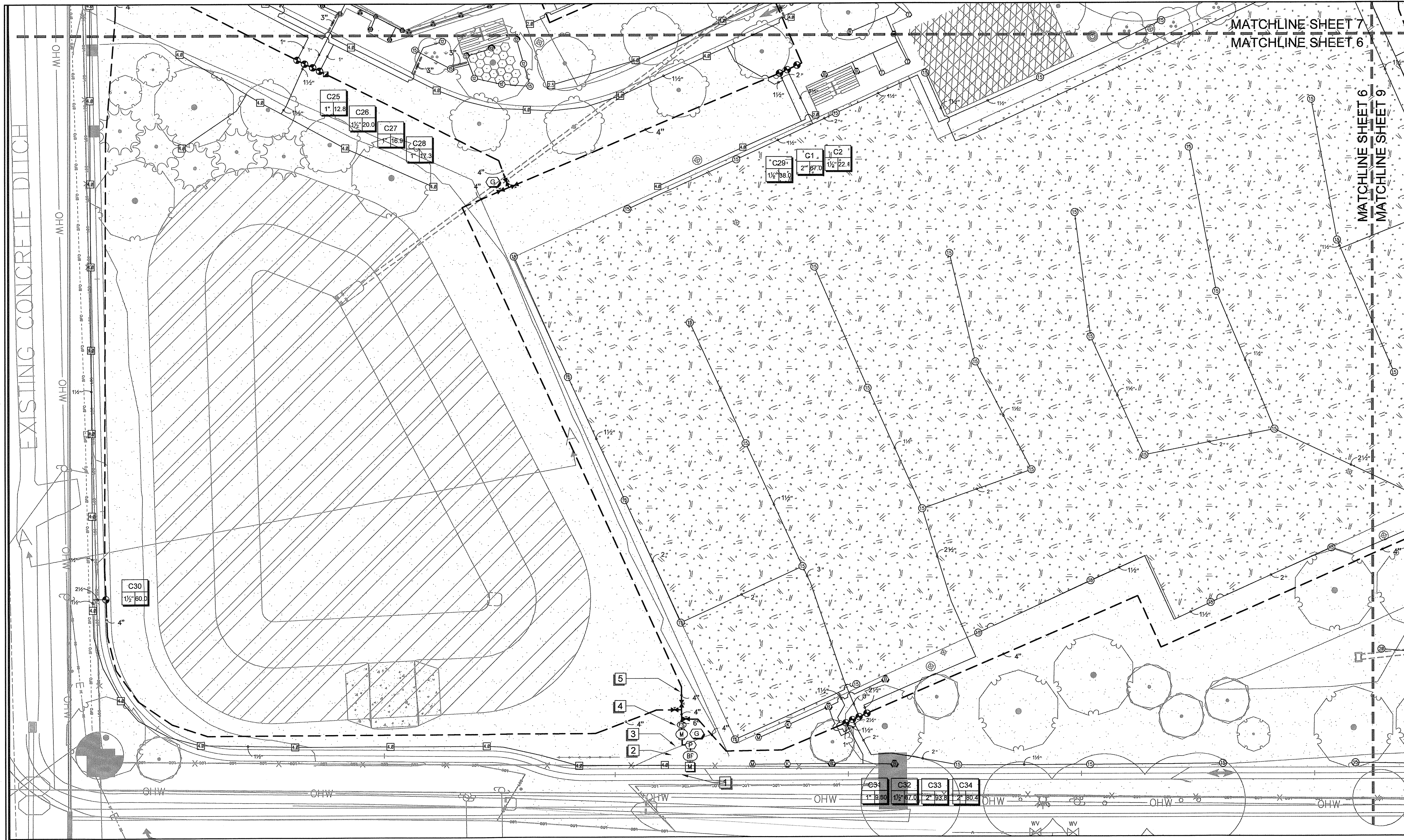
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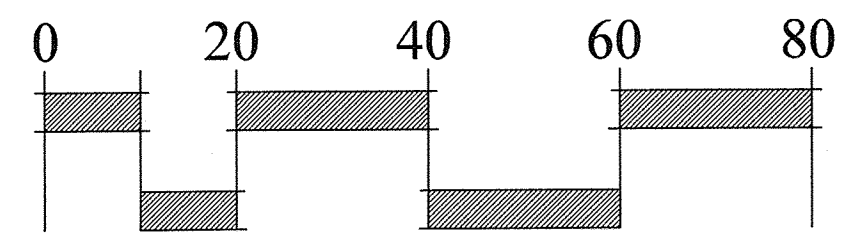
MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. LA686776  
 PROJECT NO.: 10-0547.004  
 SCALE: As Shown  
 DATE: 07/31/2014  
 DRAWING: LA-5

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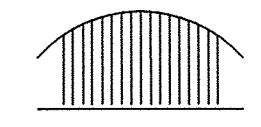
NORTH



SCALE: 1" = 20'



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NO.	DATE	DESCRIPTION	BY

DESIGNED BY	PH	CHECKED BY	SK
DRAWN BY	PH	CHECKED BY	SK

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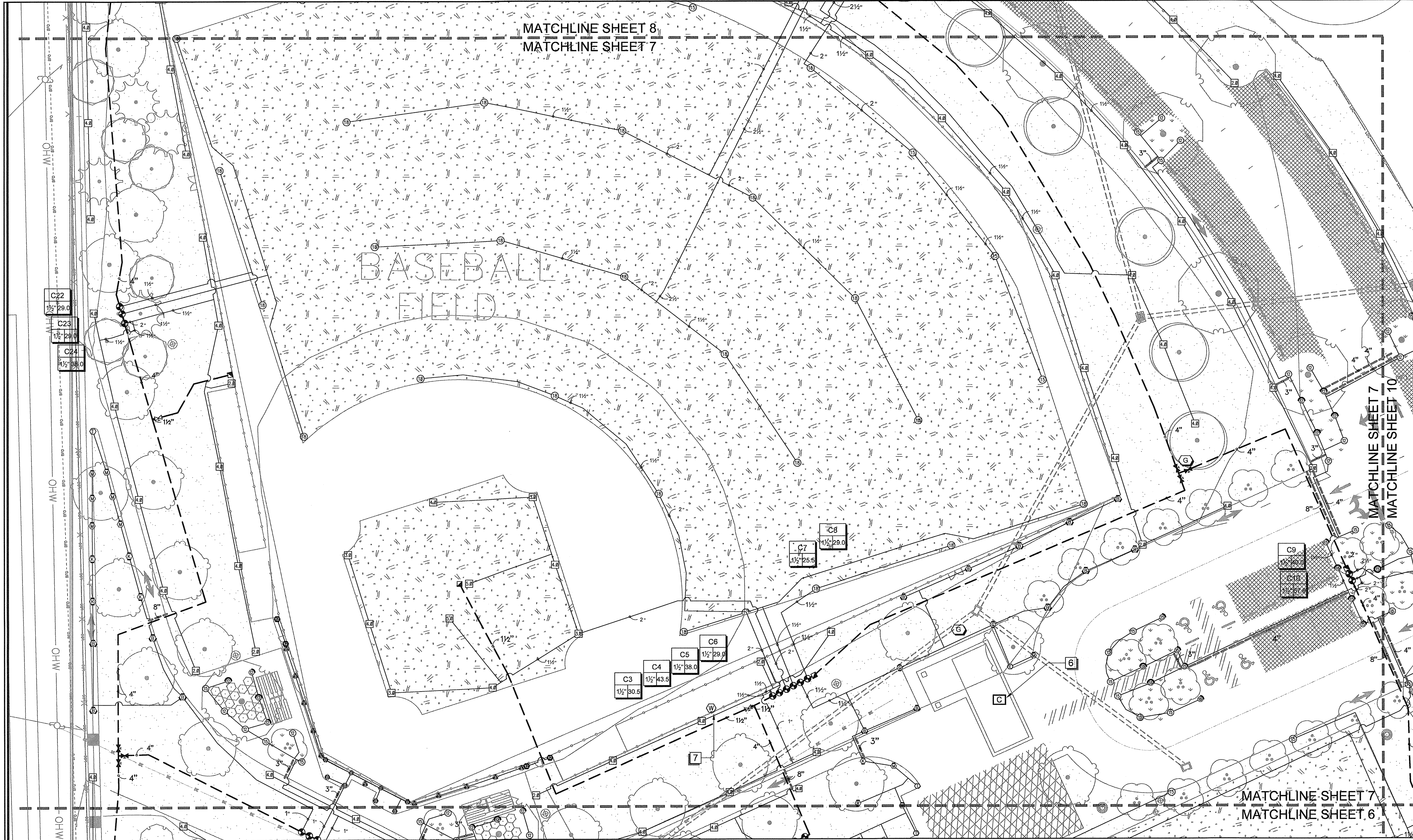
IRRIGATION PLAN  
**FRED GEORGE GREENWAY**  
LEON COUNTY, FLORIDA  
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MARK L. BAKER, R.L.A. ASLA  
FLORIDA CERTIFICATION NO. LA6686776

10-0547-004  
1" = 20'  
DATE: 08/01/2014  
DRAWING: LA-6





MATCHLINE SHEET 8  
MATCHLINE SHEET 7

BASEBALL  
FIELD

MATCHLINE SHEET 7  
MATCHLINE SHEET 10

MATCHLINE SHEET 7  
MATCHLINE SHEET 6

C22  
1 1/2" 29.0

C23  
1 1/2" 29.0

C24  
1 1/2" 38.0

C7  
1 1/2" 25.5

C8  
1 1/2" 29.0

C3  
1 1/2" 30.5

C4  
1 1/2" 43.5

C5  
1 1/2" 38.0

C6  
1 1/2" 29.0

C9  
1 1/2" 37.5

C10  
1 1/2" 37.5

REVISIONS	
NO.	DESCRIPTION

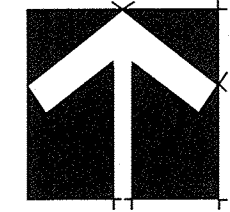
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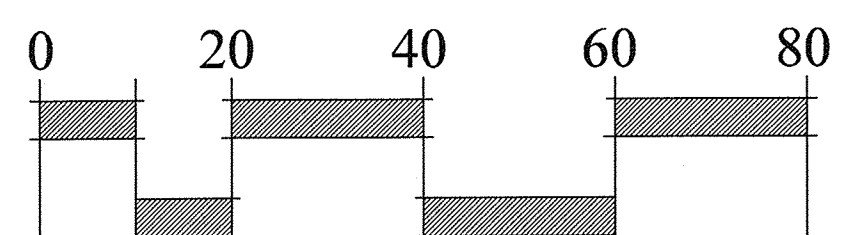
IRRIGATION PLAN  
FRED GEORGE  
GREENWAY  
LEON COUNTY, FLORIDA  
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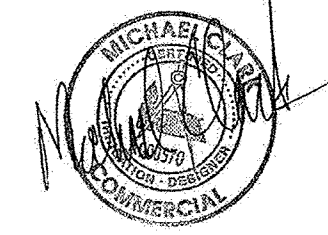
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FLORIDA CERTIFICATION NO.  
LA6668776



NORTH



SCALE: 1" = 20'



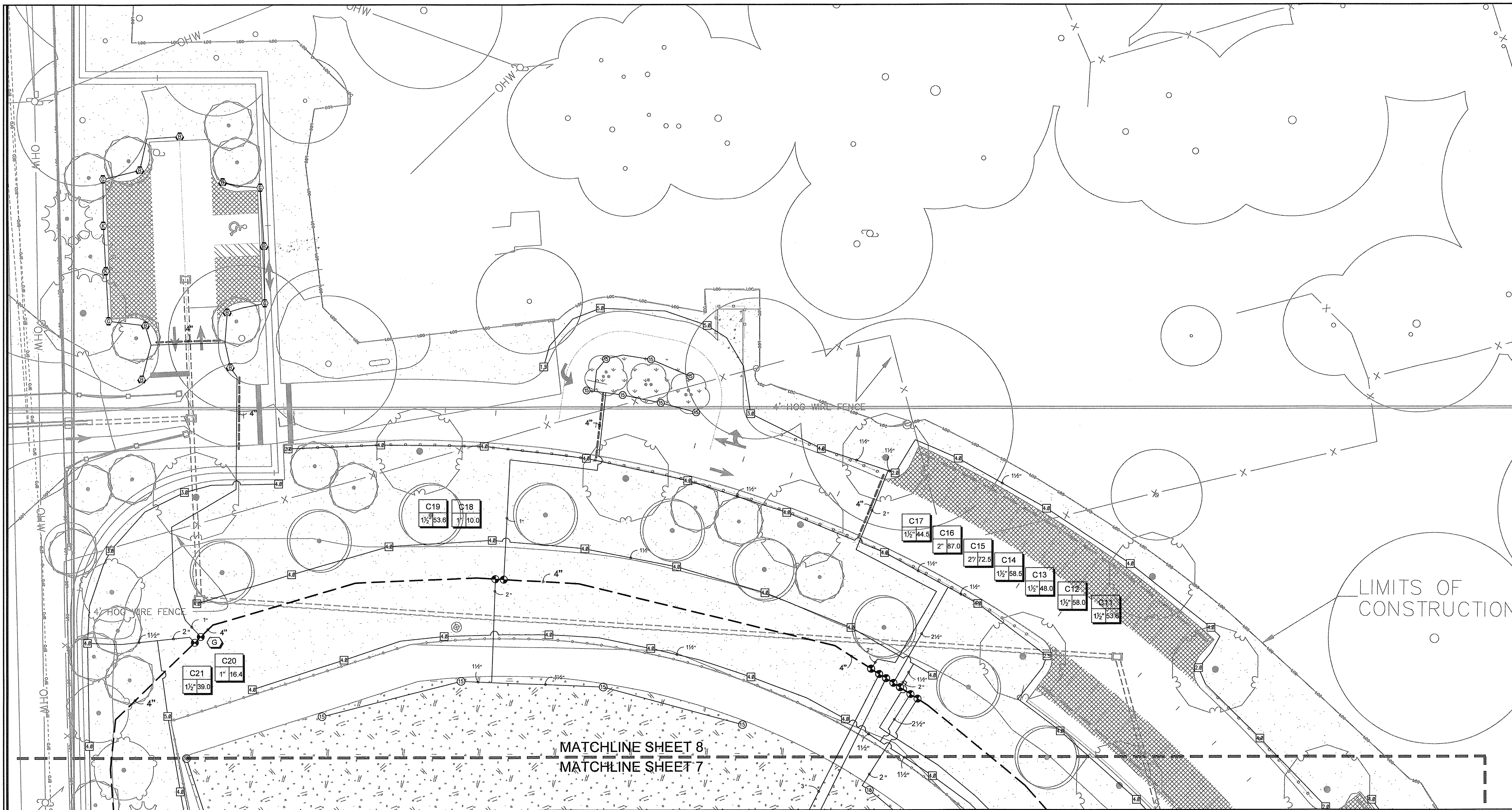
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10-0547.004  
1" = 20'  
DATE: 08/01/2014  
DRAWING: LA-7





REVISIONS	
NO.	DESCRIPTION

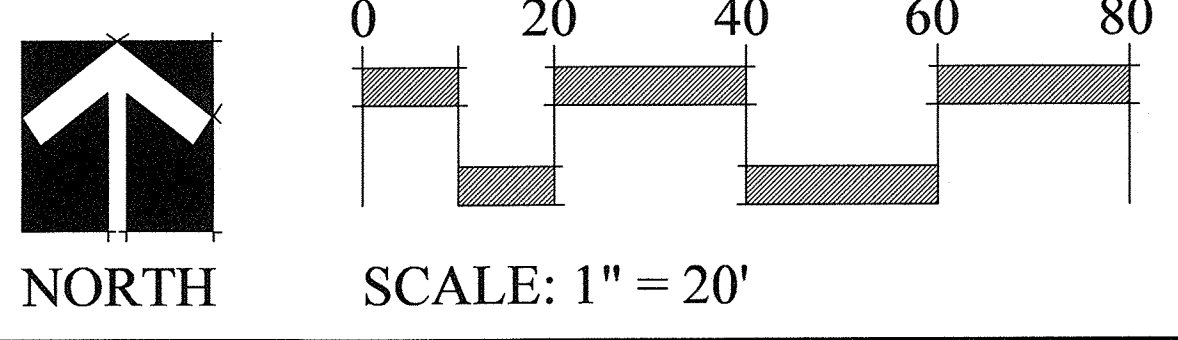
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DRAWN BY	PH
CHECKED BY	SK

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IRRIGATION PLAN  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA

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MARK L. BAKER, R.L.A. ASLA FLORIDA CERTIFICATION NO. LA6688776
10-0547.004
1" = 20'
DATE: 08/01/2014
DRAWING: LA-8

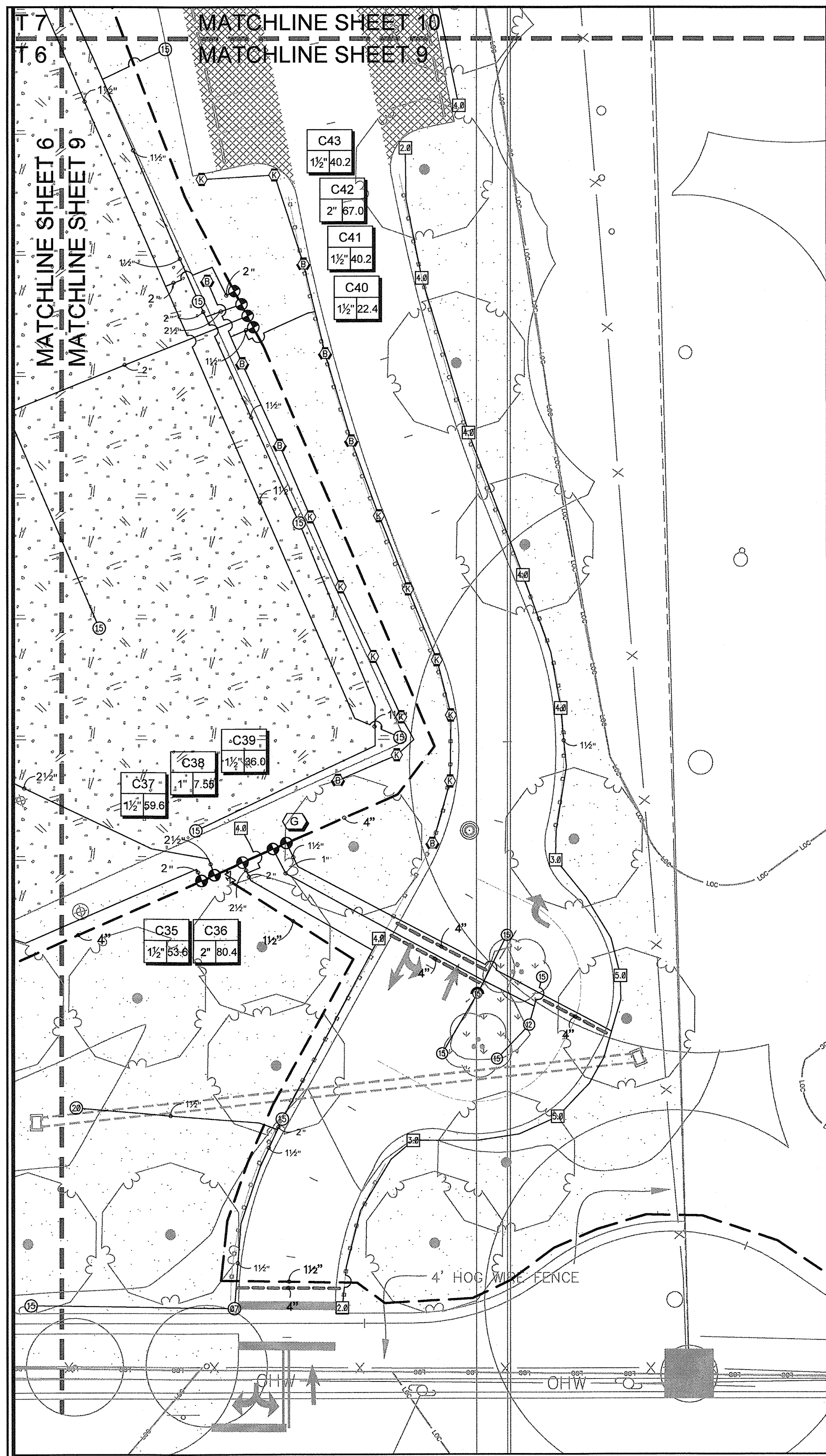


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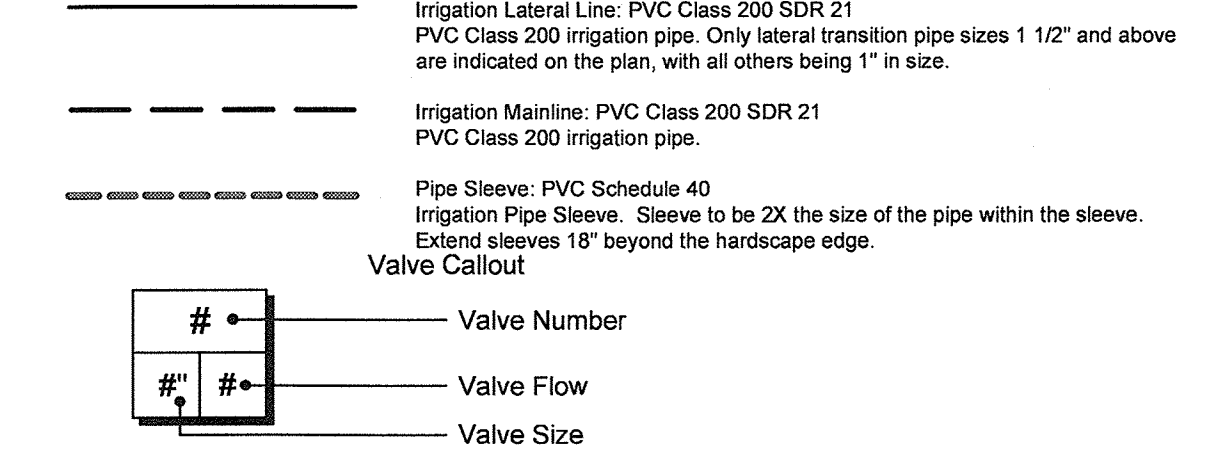
### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
ES LCS RCS CS SS	Hunter PROS-06-PRS30-CV 5' strip spray Turf Spray, 30 psi regulated 6.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Q T H TT F	Hunter PROS-06-PRS30-CV 8' radius Turf Spray, 30 psi regulated 6.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Q T H TT TQ F	Hunter PROS-06-PRS30-CV ADJ Turf Spray, 30 psi regulated 6.0" Pop-Up. With factory installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Q T H TT TQ F	Hunter PROS-12-PRS30-CV 12' radius Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Q T H TT TQ F	Hunter PROS-12-PRS30-CV 15' radius Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
Q T H TT TQ F	Hunter PROS-12-PRS30-CV ADJ Shrub Spray, 30 psi regulated 12.0" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.
M L O	Hunter MP1000 PROS-06-CV-PRS40 Turf Rotator, 6" (15.24 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
K G R	Hunter MP2000 PROS-06-CV-PRS40 Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.
B Y A	Hunter MP3000 PROS-06-CV-PRS40 Turf Rotator, 6" (15.24 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.
T	Hunter MP Corner PROS-06-CV-PRS40 Turf Rotator, 6" (15.24cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PRS40 body. T=Turquoise adj arc 45-105.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
1.5	Hunter I-20-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
2.0	Hunter I-20-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
2.5	Hunter I-20-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
3.0	Hunter I-20-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
4.0	Hunter I-20-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
5.0	Hunter I-20-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
07	Hunter I-25-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
15	Hunter I-25-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
18	Hunter I-25-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.
20	Hunter I-25-06-SS Turf Rotor, 6.0" Pop-Up, Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Standard Nozzle.

### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
☉	Rain Bird PEBS 2", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
☐	Rain Bird #4LRC Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme Key.
⊗	Mato-Norca 10RT 2" to 8" cast iron gate isolation valve. Ring-Tite Gasket Ends. Resilient wedge with epoxy coating and optional nut. For IPS pipe. Same size as mainline pipe.
⊗	Mato-Norca 513T 3/4"-2" Bronze Gate Valve, Full Port, Heavy Duty, Non-Rising Stem. IPS, Wheel Handle. Same size as mainline pipe.
⊗	Superior 3200 3" 1", 1-1/2", 2", and 3" Brass Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
⊗	Watts 909RPA 3" Reduced Pressure Backflow Preventer
⊗	Rain Bird ESP-LXD Two-Wire Decoder Commercial Controller. 50 Stations. UV-Resistant, Outdoor-Rated, Plastic Locking Wall-Mountable Case. Available in the US market, International, European, or Australian Markets.
⊗	Hunter ET-Sensor ET Sensor with use only for IMMS-ET installations.
⊗	Creative Sensor Technology FSI-S40-001 4" (110mm) PVC Saddle type Flow Sensor, custom mounting saddle and ultra-lightweight impeller enhances low flow measurement. 2 wire digital output compatible w/all irrigation controllers. Flow range: 10-480 GPM.
⊗	Booster Pump Hoover Pumping Systems #
⊗	2-Wire Grounding Point 8" ground rod with a minimum of 8' of #6 bare copper wire pre-welded to the ground rod and connected to the 2-wire path. Install 10" valve box over the ground rod location.
⊗	Water Meter 3" 3" Irrigation Water Meter
⊗	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Only lateral transition pipe sizes 1 1/2" and above are indicated on the plan, with all others being 1" in size.
⊗	Irrigation Mainline: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe.
⊗	Pipe Sleeve: PVC Schedule 40 Irrigation Pipe Sleeve. Sleeve to be 2X the size of the pipe within the sleeve. Extend sleeves 18" beyond the hardscap edge.



### REFERENCE NOTES SCHEDULE

- Irrigation water source to be a new 4" tap, 4" service line, 3" water meter, 3" reduce pressure backflow preventer. System requirements are 200 gpm at a static pressure of 70 psi. Verify available flow and static pressure prior to construction. If either is insufficient notify owners representative.
- Install Strong Box backflow enclosure #SBBC-75ALHPI over the backflow preventer as per plan detail and enclosure manufacturers installation instructions.
- Install booster pump as per Irrigation Schedule, details and specifications.
- Wire flow sensor directly to the irrigation controller. All flow sensor wire to be 14ga irrigation control wire in 1" PVC electrical conduit.
- All 4" and larger mainline to be gasket joint with ductile iron(DI) fittings. All DI fittings to have joint restraint as per the manufacturers recommendations.
- Coordinate exact controller location with the owners representative. Provide 120vac 10 amp power to the controller from a dedicated circuit. See controller installation notes for further installation requirements.
- Install weather station as per plan detail and manufacturers recommendations. Wire weather station directly to controller as per manufacturers recommendations. All wire between the weather station and the controller to be in 1" PVC conduit.

### CRITICAL ANALYSIS

Generated: 2014-01-23 10:26

P.O.C. NUMBER: 01  
Water Source Information: 3" Irrigation Water Meter

FLOW AVAILABLE  
Water Meter Size: 3"  
Flow Available: 225.00 gpm

PRESSURE AVAILABLE  
Static Pressure at POC: 70.00 psi  
Elevation Change: 5.00 ft  
Service Line Size: 4"  
Length of Service Line: 20.00 ft  
Booster Pump Pressure provided: 30.00 psi  
Pressure Available: 98.00 psi

DESIGN ANALYSIS  
Maximum Multi-valve Flow: 200.00 gpm  
Flow Available at POC: 225.00 gpm  
Residual Flow Available: 25.00 gpm

Pressure Req. at Critical Station: 56.98 psi  
Loss for Fittings: 0.28 psi  
Loss for Main Line: 2.80 psi  
Loss for POC to Valve Elevation: 0.00 psi  
Loss for Backflow: 15.00 psi  
Loss for Master Valve: 4.10 psi  
Loss for Water Meter: 9.00 psi  
Critical Station Pressure at POC: 88.16 psi  
Pressure Available: 98.00 psi  
Residual Pressure Available: 9.84 psi

### VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
C1	Rain Bird PEBS	2"	Turf Rotor	55.44	84.49	67.00	0.98 in/h
C2	Rain Bird PEBS	1-1/2"	Turf Rotor	36.01	65.08	22.09	1.24 in/h
C3	Rain Bird PEBS	1-1/2"	Turf Rotor	48.31	77.61	30.50	0.60 in/h
C4	Rain Bird PEBS	1-1/2"	Turf Rotor	56.04	85.35	43.50	0.66 in/h
C5	Rain Bird PEBS	1-1/2"	Turf Rotor	49.28	78.60	38.00	0.67 in/h
C6	Rain Bird PEBS	1-1/2"	Turf Rotor	56.34	85.68	29.00	1.64 in/h
C7	Rain Bird PEBS	1-1/2"	Turf Rotary	43.92	73.26	25.53	0.34 in/h
C8	Rain Bird PEBS	1-1/2"	Turf Rotor	54.05	83.41	29.00	0.80 in/h
C9	Rain Bird PEBS	1-1/2"	Turf Rotor	50.87	81.07	40.00	0.57 in/h
C10	Rain Bird PEBS	1-1/2"	Shrub Spray	35.76	65.97	57.94	1.29 in/h
C11	Rain Bird PEBS	1-1/2"	Turf Rotor	56.14	86.54	53.60	0.84 in/h
C12	Rain Bird PEBS	1-1/2"	Turf Rotor	51.87	82.28	58.00	0.48 in/h
C13	Rain Bird PEBS	1-1/2"	Turf Rotor	51.84	82.27	48.00	0.26 in/h
C14	Rain Bird PEBS	1-1/2"	Turf Rotor	52.98	82.81	58.50	0.54 in/h
C15	Rain Bird PEBS	2"	Turf Rotor	56.98	87.43	72.50	0.44 in/h
C16	Rain Bird PEBS	2"	Turf Rotor	56.96	87.42	87.00	0.39 in/h
C17	Rain Bird PEBS	1-1/2"	Turf Rotor	51.83	82.30	44.50	0.70 in/h
C18	Rain Bird PEBS	1"	Shrub Spray	34.75	65.38	10.04	1.21 in/h
C19	Rain Bird PEBS	1-1/2"	Turf Rotor	55.30	85.90	53.60	0.82 in/h
C20	Rain Bird PEBS	1"	Turf Rotary	48.61	78.87	16.38	0.24 in/h
C21	Rain Bird PEBS	1-1/2"	Turf Rotor	48.58	78.84	39.00	0.49 in/h
C22	Rain Bird PEBS	1-1/2"	Turf Rotor	53.79	83.57	29.00	0.23 in/h
C23	Rain Bird PEBS	1-1/2"	Turf Rotor	55.77	85.53	29.00	1.84 in/h
C24	Rain Bird PEBS	1-1/2"	Turf Rotor	48.72	78.47	38.00	0.61 in/h
C25	Rain Bird PEBS	1-1/2"	Turf Rotary	45.30	74.23	12.81	0.32 in/h
C26	Rain Bird PEBS	1-1/2"	Turf Rotor	47.11	78.03	20.00	0.23 in/h
C27	Rain Bird PEBS	1"	Turf Spray	34.60	63.51	16.91	1.52 in/h
C28	Rain Bird PEBS	1"	Shrub Spray	34.31	63.21	17.30	1.34 in/h
C29	Rain Bird PEBS	1-1/2"	Turf Rotor	50.37	79.41	38.00	0.48 in/h
C30	Rain Bird PEBS	1-1/2"	Turf Rotor	52.39	81.03	60.00	0.67 in/h
C31	Rain Bird PEBS	1"	Turf Rotary	43.09	71.89	9.50	0.31 in/h
C32	Rain Bird PEBS	1-1/2"	Turf Rotor	56.25	85.07	67.00	0.84 in/h
C33	Rain Bird PEBS	2"	Turf Rotor	58.03	86.87	93.80	0.40 in/h
C34	Rain Bird PEBS	2"	Turf Rotor	57.04	86.91	80.40	0.43 in/h
C35	Rain Bird PEBS	1-1/2"	Turf Rotor	58.53	88.75	53.60	0.42 in/h
C36	Rain Bird PEBS	2"	Turf Rotor	56.80	87.03	80.40	0.41 in/h
C37	Rain Bird PEBS	1-1/2"	Turf Rotor	56.21	86.46	59.60	0.68 in/h
C38	Rain Bird PEBS	1"	Shrub Spray	33.34	63.80	7.55	1.26 in/h
C39	Rain Bird PEBS	1-1/2"	Turf Rotor	51.53	81.80	38.00	0.69 in/h
C40	Rain Bird PEBS	1-1/2"	Turf Rotary	42.45	72.85	22.42	0.45 in/h
C41	Rain Bird PEBS	1-1/2"	Turf Rotor	53.97	84.37	40.20	0.39 in/h
C42	Rain Bird PEBS	2"	Turf Rotor	55.62	86.02	67.00	0.77 in/h
C43	Rain Bird PEBS	1-1/2"	Turf Rotor	54.30	84.70	40.20	1.72 in/h
C44	Rain Bird PEBS	1"	Turf Rotary	44.00	81.75	20.06	0.21 in/h

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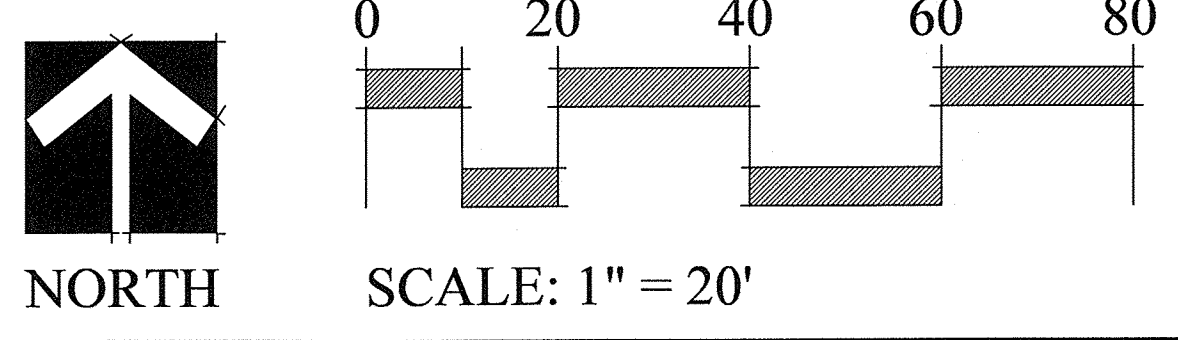
IRRIGATION PLAN  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA

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10-0547.004  
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 DATE: 08/01/2014  
 DRAWING: LA-9

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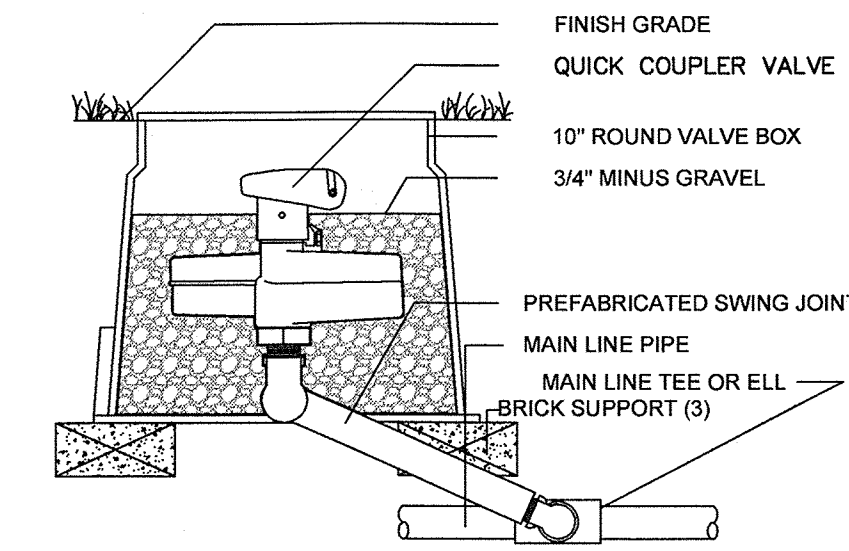
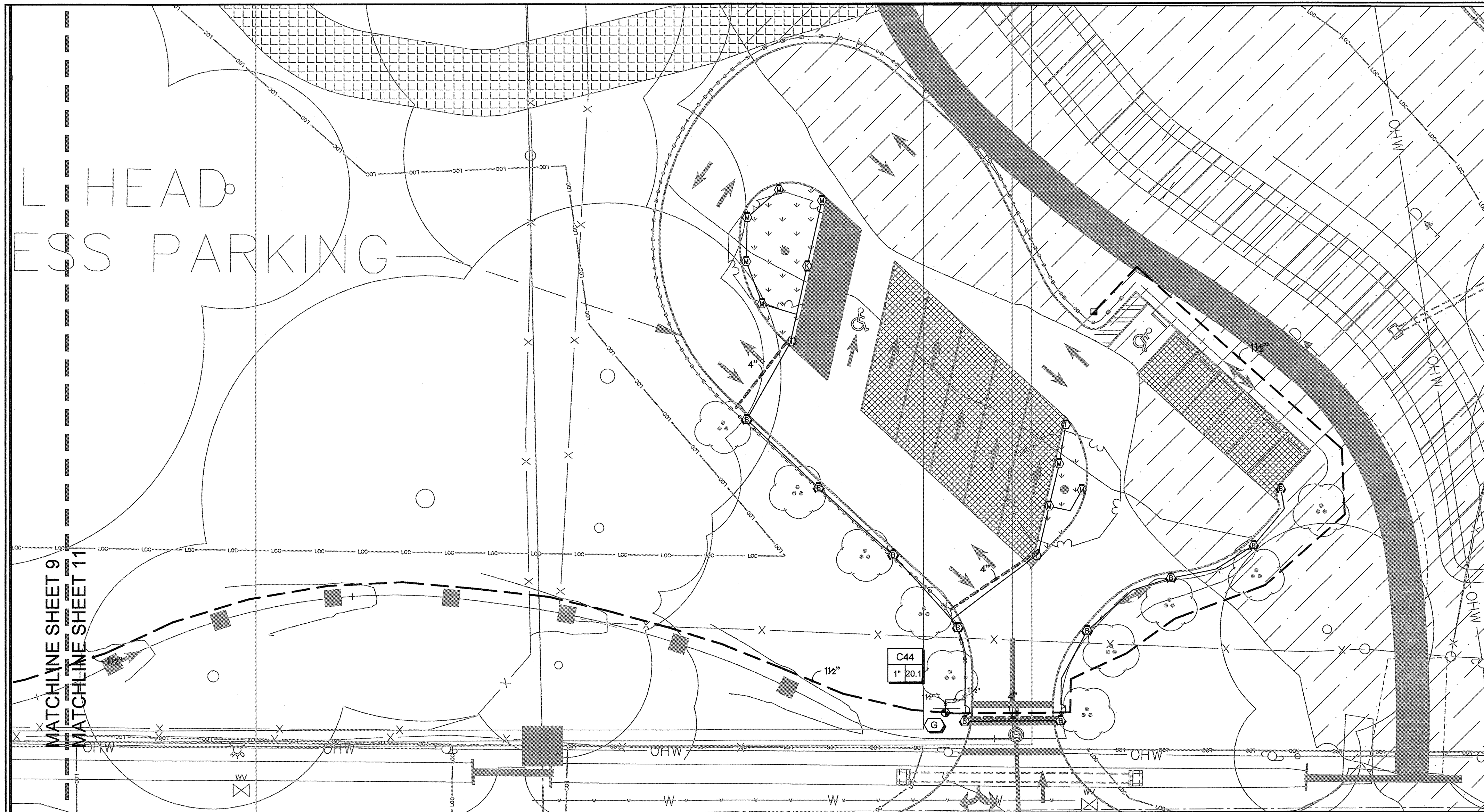
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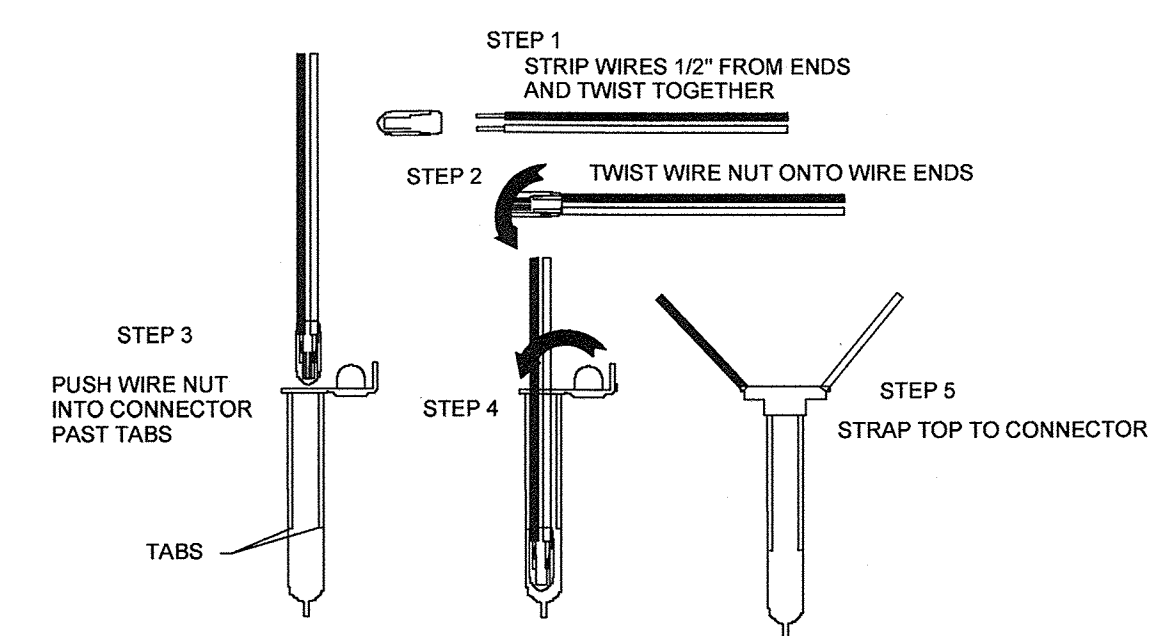




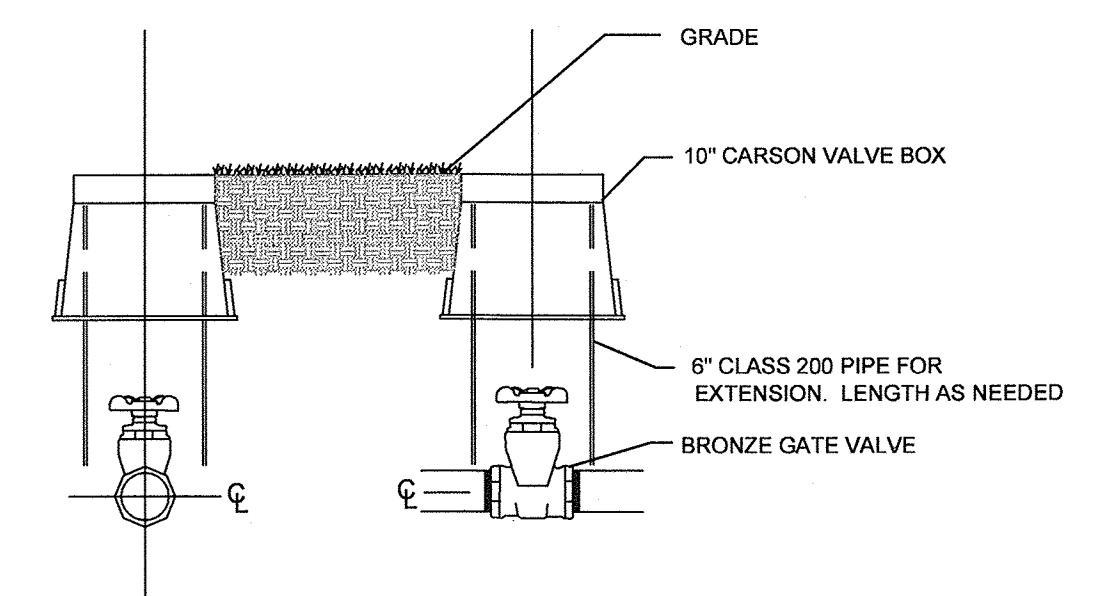




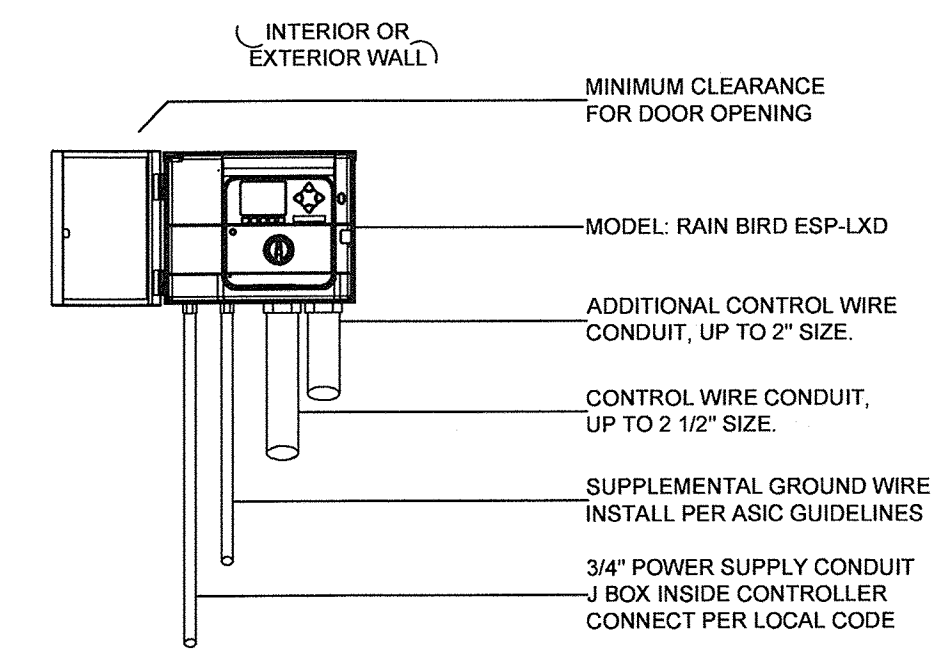
**6** QUICK COUPLER VALVE  
 NTS



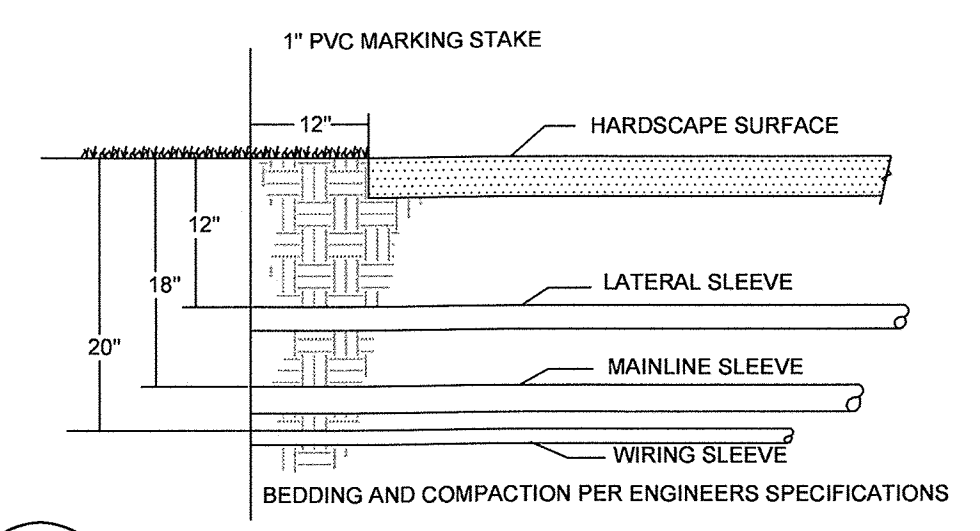
**7** WIRE CONNECTION 3M-DBR6-Y  
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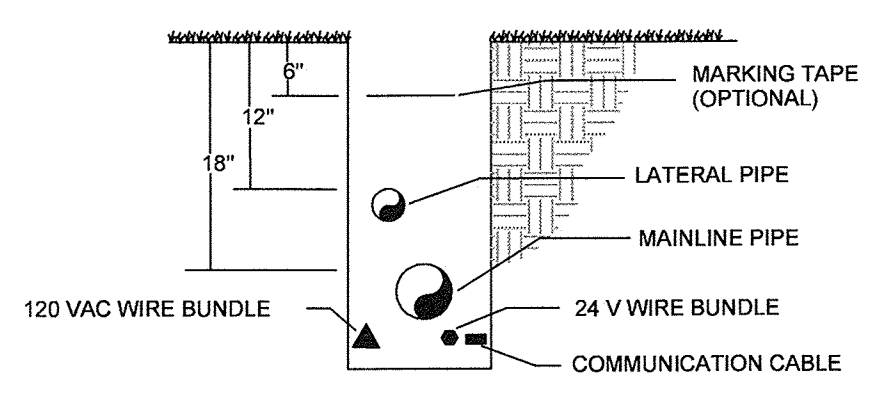
**8** ISOLATION VALVE DETAIL  
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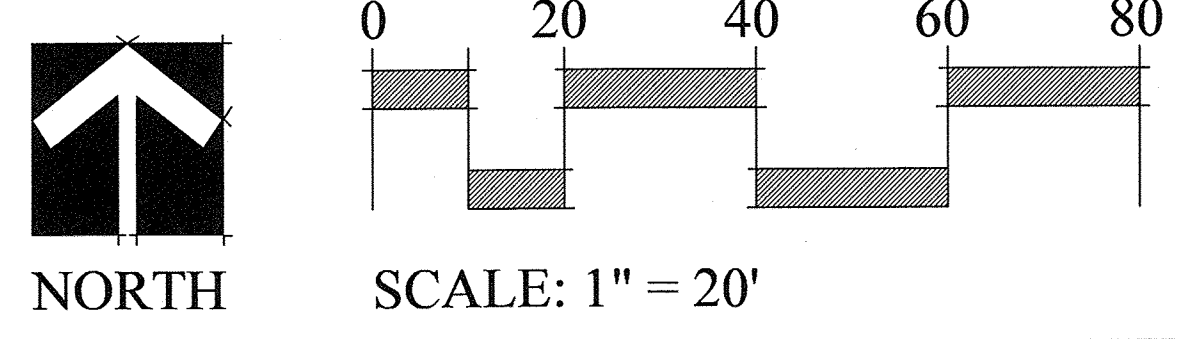
**9** WALL MOUNT CONTROLLER  
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**10** SLEEVING  
 NTS



**11** TRENCH, PIPE AND WIRE  
 NTS



NO.	DATE	DESCRIPTION	REVISIONS	
			BY	DATE

DESIGNED BY	DRAWN BY	CHECKED BY
PH	PH	SK

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IRRIGATION PLAN  
**FRED GEORGE GREENWAY**  
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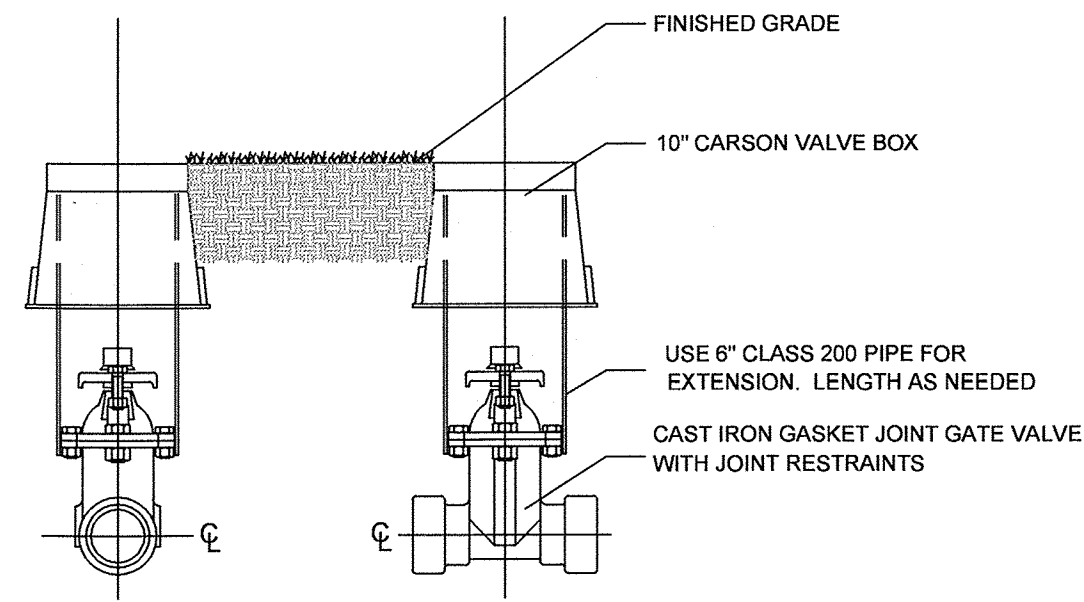
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 FLORIDA CERTIFICATION NO. LA6686776  
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 1" = 20'  
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 DRAWING: LA-11

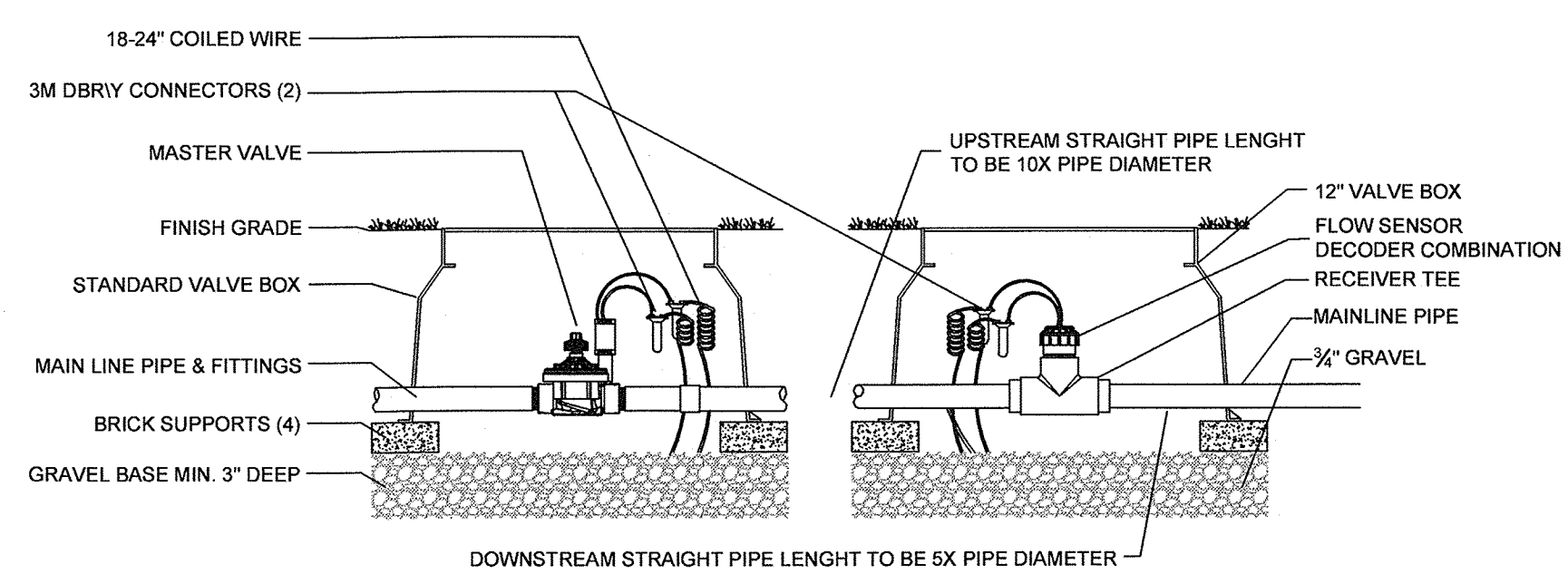
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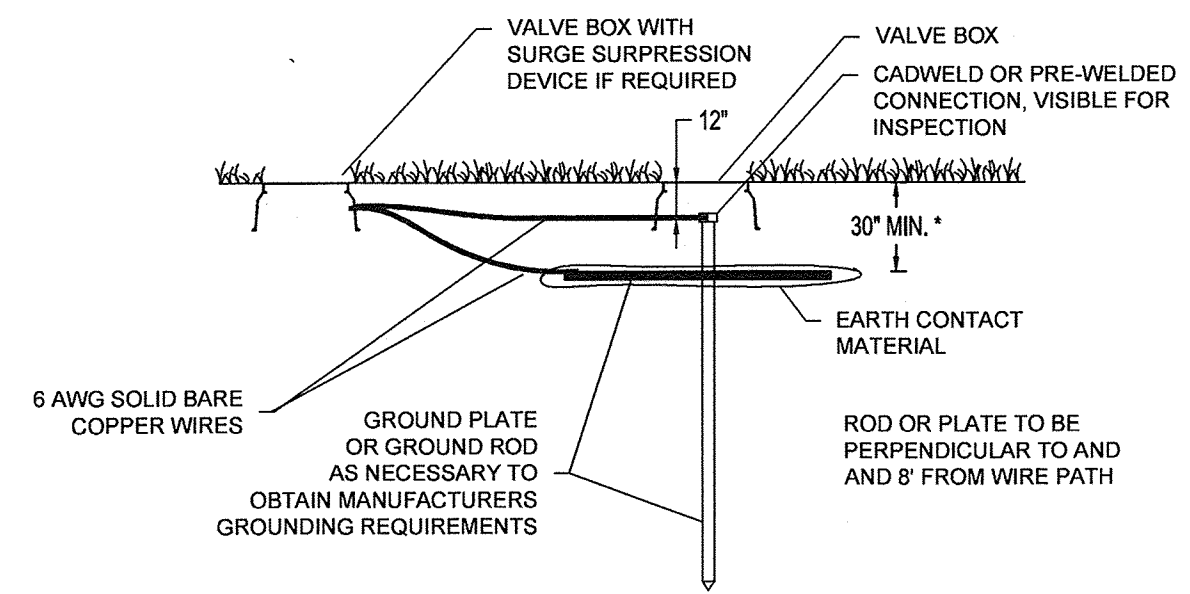


**12** ISOLATION VALVE DETAIL 2 1/2" AND LARGER  
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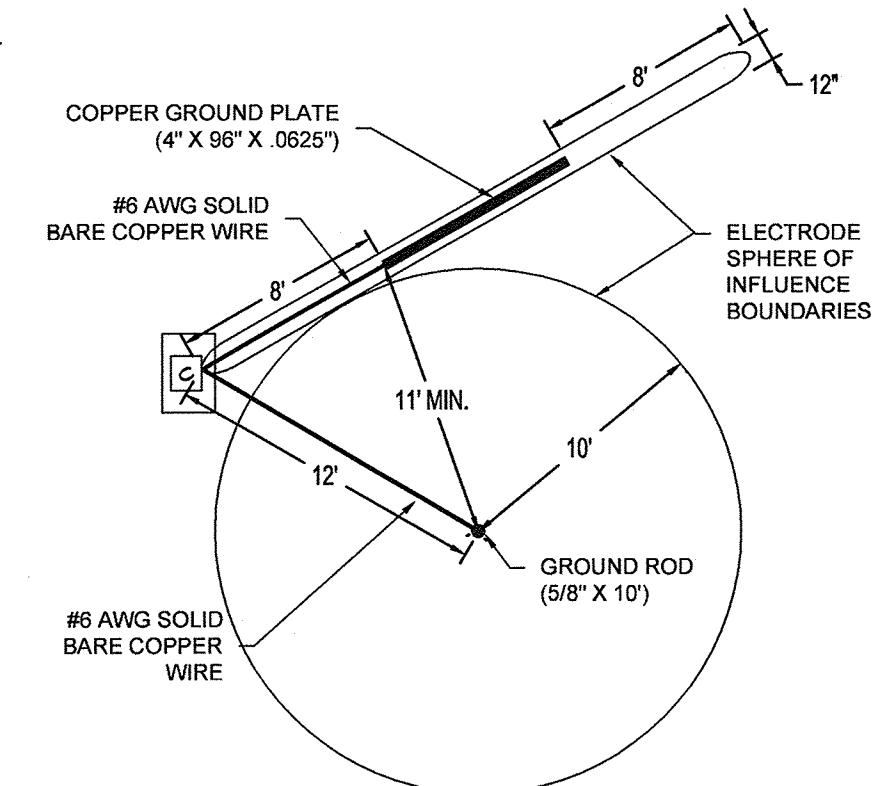
**13** MASTER VALVE FLOW SENSOR  
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**SIDE VIEW**



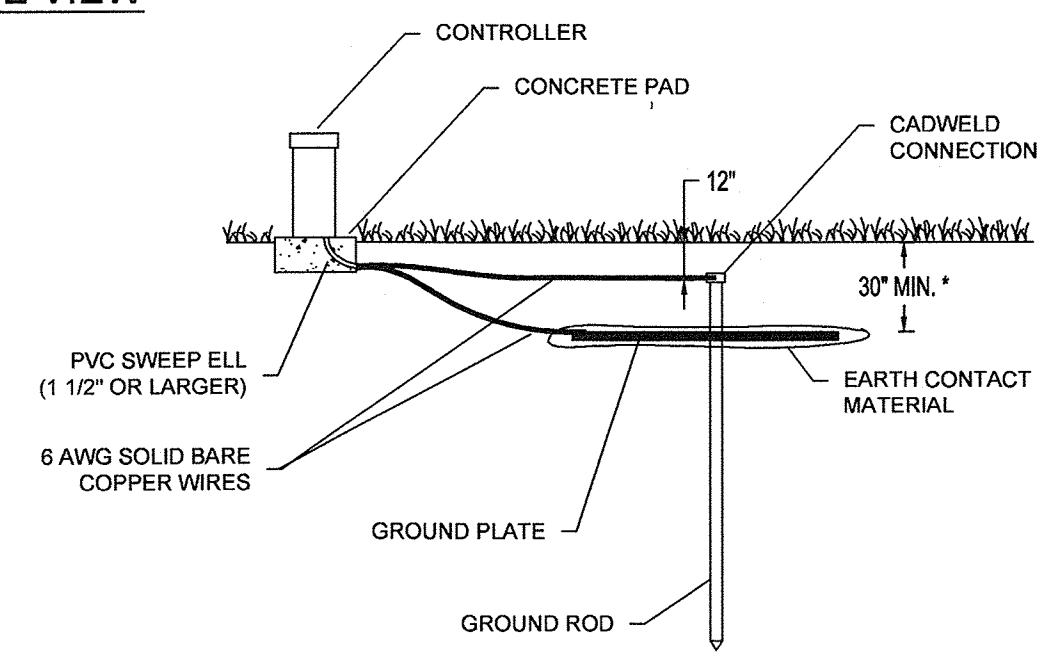
**14** TWO WIRE GROUNDING POINT DETAIL  
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**TOP VIEW**

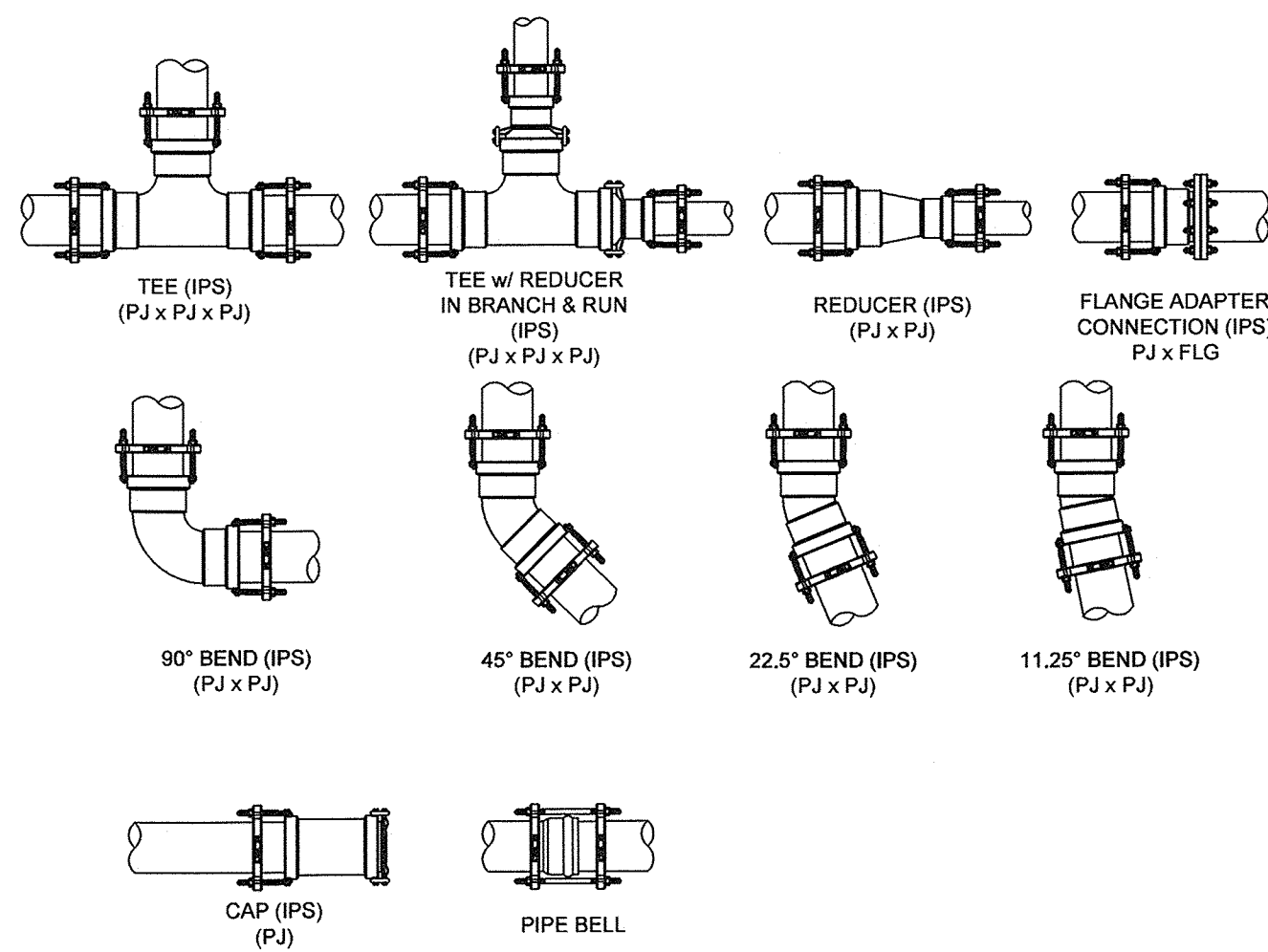


DO NOT INSTALL ANY OTHER WIRES OR CABLE WITHIN THE SPHERE OF INFLUENCE

**SIDE VIEW**

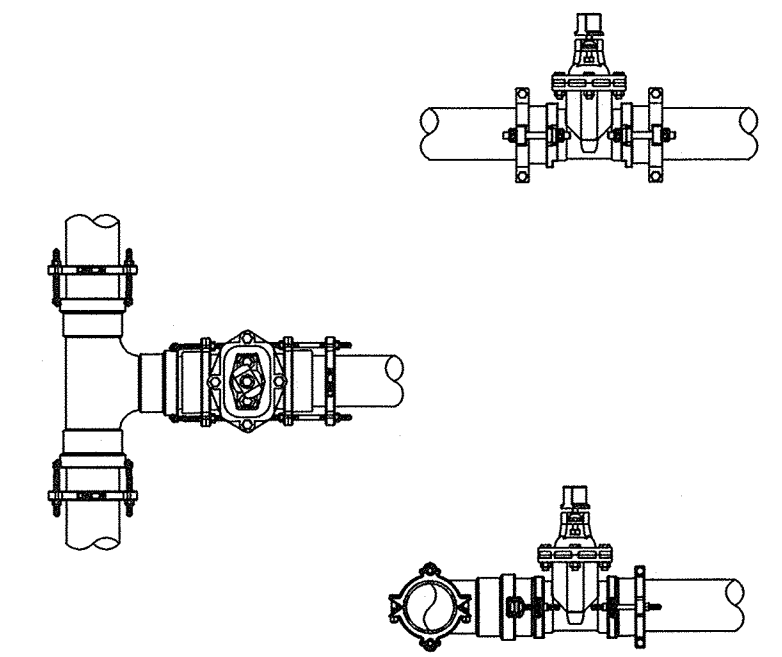


**17** CONTROLLER GROUNDING DETAIL  
NTS



ALL FITTING, VALVE AND PIPE JOINT RESTRAINT TO BE INSTALLED AS PER MANUFACTURERS REQUIREMENTS. SEE WWW.HARCOFITTINGS.COM FOR JOINT RESTRAINT INSTALLATION INFORMATION.

**15** GASKET FITTING JOINT RESTRAINT  
NTS



ALL FITTING, VALVE AND PIPE JOINT RESTRAINT TO BE INSTALLED AS PER MANUFACTURERS REQUIREMENTS. SEE WWW.HARCOFITTINGS.COM FOR JOINT RESTRAINT INSTALLATION INFORMATION.

**16** VALVE TO PIPE RESTRAINT  
NTS

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DRAWN BY	CHECKED BY
PH	PH	SK

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IRRIGATION PLAN  
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CITY OF TALLAHASSEE FRED GEORGE PARK BOOSTER

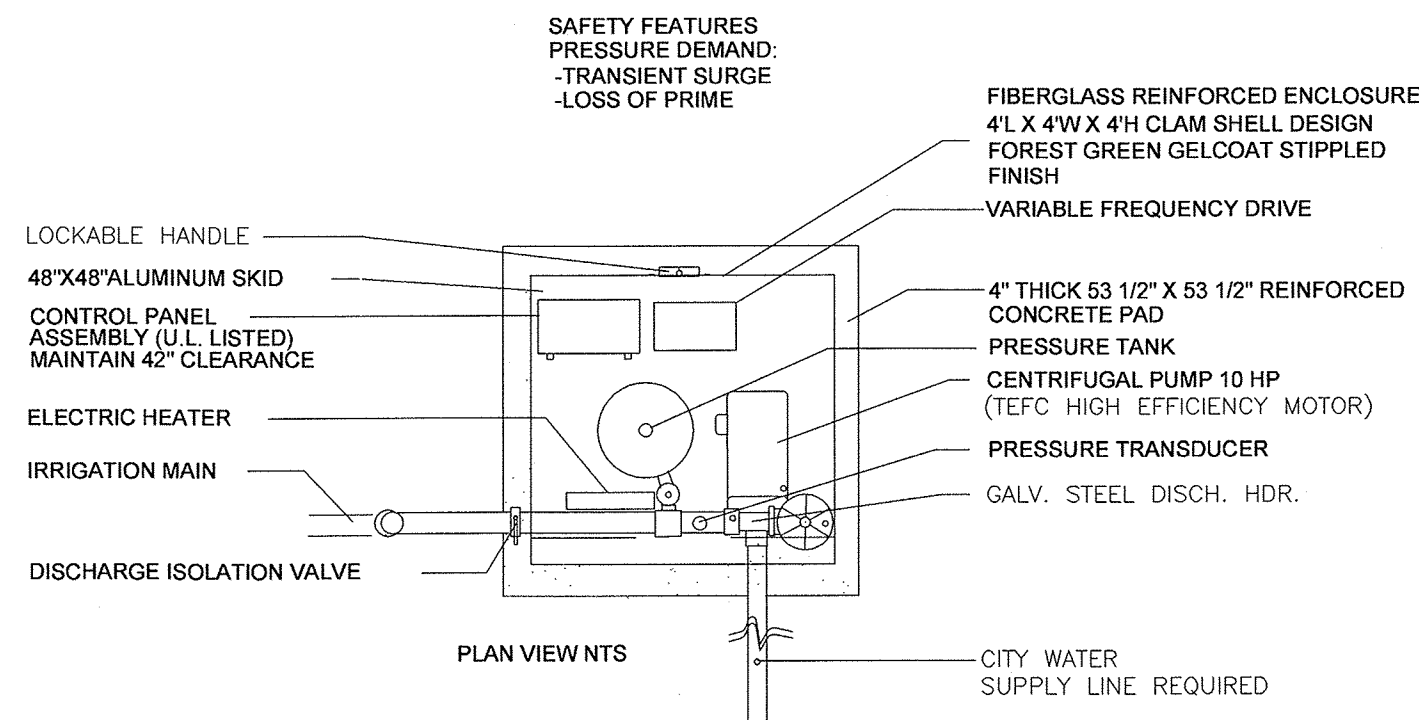
HOOVER GREEN

SPECIFICATIONS

SINGLE CENTRIFUGAL PUMP SYSTEM  
PRESSURE DEMAND VFD

NOTE: SUCTION AND DISCHARGE PIPE SHALL BE SCHED 40 GALVANIZED STEEL WITH GALVANIZED ROLL GROOVE FITTINGS FOR ALL ABOVE GROUND PIPE.

\* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"  
 \_\_\_ PRESSURE CONTROL VALVE  
 \_\_\_ IRRIGATION CONTROLLER STATIONS, WITH RAIN SENSOR  
 X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS



ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE:  
 460V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 WYE 3-PHASE,  
 230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE.

PUMP PERFORMANCE  
 200 GPM @ 125 TDH, 80 PSI AT DISCHARGE  
 WITH UP TO 45 PSI PRESSURE BOOST

HOOVER PUMPING MODEL: HCBF-10PDV-230/3-Y,Z FILE PN12910.DWG 01/14  
 Pompano Beach, Florida, Tel: 954-971-7350

CITY OF TALLAHASSEE FRED GEORGE  
 PARK BOOSTER  
 CENTRIFUGAL PUMP SYSTEM DETAIL  
 FIBERGLASS ENCLOSED CITY WATER SUPPLY LINE  
 PRESSURE DEMAND VARIABLE FREQUENCY DRIVE  
 HOOVER GREEN

PURPOSE:

To provide a complete prefabricated variable frequency drive skid mounted pressure demand centrifugal pump system from a sole source company, herein after referred to as the "manufacturer", whose primary business is the manufacture of prefabricated pump systems. The manufacturer will manufacture, flow test, install and warrant the system to meet all specified operating requirements described below and in the system detail. The system shall be a Model HCBF-10PDV-230/3-Y,Z as manufactured by Hoover Pumping Systems of Pompano Beach, Florida USA 954-971-7350 specified below and shown on the plan details. This specification describes the general components and minimal operating requirements and shall not be construed as a manufacturing guide or complete list of required system components and appurtenances.

The contractor shall submit seven (7) complete copies of the shop drawings to the designer for approval, prior to system order placement. The submittal shall contain cut sheets for all system components. To be considered an equal, the contractor must submit the following 12 days prior to bid opening: manufacturer brochure showing prefabricated pump systems manufacturing is the primary business of the manufacturer or division proposed to manufacture the system, written specifications, dimensioned layout detail, electrical schematic, product sheets for all main components, Underwriters Laboratory electrical control panel and "Packaged Pumping System" manufacturer's file numbers, list of 6 projects with similar operating systems with current name and phone number of person responsible for system operation, manufacturer's insurance certificate for general liability showing minimum coverage of \$1 million, and written certification from the manufacturer stating the proposed system meets all requirements described in this specification, the detail and the bid documents.

If the data submitted is determined to be an equal by the designer the bidder will be notified prior to the bid date.

**FIBERGLASS ENCLOSURE:** The pump station shall be protected by a fiberglass enclosure with chemical and ultraviolet resistant open mold resin with exterior finish that is uniform in color and texture, reinforced with fiberglass and stiffeners for rigidity. The enclosure shall open clear of the equipment for ease of service with the aid of gas filled struts, a stainless steel hinge and latching lockable handle. The enclosure shall be of dimensions adequate to contain the pump system mounted on the skid as shown on the system detail.

**MOUNTING ASSEMBLY:**  
 The pump station shall be mounted on a prefabricated aluminum or hot dipped galvanized skid. Pedestals shall be provided to mount the pump motor and control panel assemblies. The entire station shall be installed on a reinforced concrete slab sized as noted on the system detail.

**PUMP AND MOTOR:**  
 The pump shall be a single-stage end-suction centrifugal type, with the liquid end mounted directly to the motor enclosure to allow rear pull out of the entire motor. A pressure sensor for loss of prime protection and thermal sensor for pump overheat protection shall be mounted into the pump volute.

The system will be designed for operation at 3,450 RPM. The pump driving motor shall be of the squirrel cage induction type. The motor shall be suitable for full voltage starting at 60 Hz. The motor enclosure shall be totally enclosed fan cooled for all motors, configured to allow direct mounting of the pump's liquid end.

The main motor shall be rated at 10 HP at 60 Hz.

PUMP STATION PERFORMANCE:

The required pump performance is as follows: a) discharge pressure of 80 psi with up to 45 psi pressure boost, b) maximum required flow of 200 GPM for the main pump, and c) minimum required flow of 35 GPM.

IRRIGATION PUMP CONTROL PANEL:

The control panel assembly shall be Underwriters Laboratories listed in accordance with section 508A for "enclosed industrial control panels." All control devices and electronic auto-sensory circuitry shall be housed in a self-contained weather-resistant NEMA 4 control cabinet. The control panel shall be identified with a permanent label approved by Underwriters Laboratories Inc. containing the word "LISTED", the name and / or symbol of Underwriters Laboratories Inc., a control number and the product name "Enclosed Industrial Control Panel". An electrical schematic shall be permanently mounted inside the cabinet. The control cabinet shall contain the following protection and control equipment:

Operation

This station operates as a Variable Frequency Drive (VFD) pressure demand start, reduced-flow retirement system. The station automatically maintains a constant discharge pressure from a pressure transducer input regardless of varying flow demands within the station operating range. The operator interface allows for viewing of system setup parameters.

Software features include flow, diagnostic information, Phase Loss protection, Phase Unbalance protection, Voltage monitoring and protection, Hoover Drive control.

Pressure Demand

The main pump starts when the mainline pressure drops below the setting of the start pressure sw

No-flow Retirement

The pump shuts off if water stops flowing.

Loss of Prime Protection

If the system pressure remains below the start pressure, and there is no flow of water through the system during pump operation, the pump will shut off. The system will remain off until 'Reset'.

Thermal Protection

If the temperature at the pump volute exceeds 43C after at least 3 minutes of pump operation, the pump will shut off, and the 'Pump Overheat' light will turn on. The system will remain off until 'Reset'.

Drive Fault

In case of a drive fault, including under or over voltage, over current, heat sink thermal, and ground fault, the affected pump will shut off, the operator interface will display 'Drive Fault'. The pump will remain off until the system is 'Reset'.

PROTECTION EQUIPMENT

- Front operated main power disconnect
- Motor fuses for motor and drive short circuit and ground fault protection
- Metal oxide varistors (MOV) for transient voltage suppression per phase
- Fused control circuitry with blown fuse lighted indicator for each circuit

PENETRATION STANDARD REQUIREMENTS:

All control panel penetrations shall be performed by a licensed electrician to minimum NEMA 4X requirements, and compliant with International Electrotechnical Commissions (IEC) IP56 rating under its IP code, to protect against duct ingress and against any harmful effects from water projected in powerful jets from any direction and protection against corrosion.

VARIABLE FREQUENCY DRIVES ( VFD ):

Variable Frequency Drive with the following characteristics shall be provided for the pump motor: 32-bit microprocessor controlled Pulse Width Modulated output, IGBT transistors, line reactors, built-in adjustable PID control, and acceleration ramp up and down, single pump VFD systems 25 hp or less NEMA 4 VFD with forced-air cooling. All other VFD system cooling is by industrial air conditioner. Variable torque control, 32 character alphanumeric English full text parameter display, single function keys, block parameter access, dual analog outputs, automatic and manual reset, opto-isolated outputs, log of last 30 events retained in memory.

PRESSURE TRANSMITTER:

A 4-20mA-pressure transmitter shall provide a feedback signal to drive PID loops and for system pressure control. The transmitter shall be CE & UL recognized and built with an all stainless steel housing and pressure port, rated to NEMA 4, and able to withstand shock and vibration levels to MIL-STD-810E. The transmitter sensor element will provide a signal over 0-150 PSIG range while rated for 600-PSI overpressure minimum. Conformity error will be less than or equal to 0.50% and the transmitter shall be capable of operation from -40 to +120C.

DISCHARGE PIPE MANIFOLD:

The pipe discharge manifold shall be constructed of galvanized steel pipe with galvanized roll groove fittings. A flow-switch, pressure gauge and hose bib will be provided on the station discharge. A wafer type butterfly valve will be provided at pump station discharge. A hydro-pneumatic tank with air/water separation bladder will be connected to the discharge header as shown on the system detail to supply replacement water when the pump is not operating.

PUMP STATION HEATER:

The pump system enclosure shall include a space heater to minimize the chance for equipment freeze damage. The heater will operate on 120 volt, single phase power supplied from the pump system control panel. The heater output shall be 500 watts. The heater shall include a protective grille, automatic shut off switch if airflow through the heater stops and 35 to 50 degree Fahrenheit thermostat.

INTAKE LINE:

The minimum size suction line shall be 3" diameter or larger as required for a maximum of 5 feet per second velocity flow. If a reducing fitting is required at the pump suction, an eccentric reducer shall be installed. Any above ground pipe at the pump system exposed to sunlight shall be schedule 40 galvanized steel with galvanized roll groove fittings.

WARRANTIES:

Prior to shipping, the manufacturer shall flow test the system and submit a certified report to the designer stating the system is within 1% + or - of the specified flow rate and pressure, and meets the operational requirements.

The manufacturer of the pumping station shall warrant all components for a period of one (1) year from date of manufacture.  
 PN12910

The following design information should be given to the engineering professional responsible for the design of the electrical supply to the pump system.

The system will be manufactured based on one of the following electrical configurations (listed in order from most preferred to least preferred):

Voltage	Phase	Hertz	Panel Connections
460	Three	60	4 Wires (A, B, C, Ground)
230	Three	60	5 Wires (A, B, C, Neutral, Ground)
208	Three	60	5 Wires (A, B, C, Neutral, Ground)
230	Single	60	4 Wires (A, B, Neutral, Ground)
208	Single	60	4 Wires (A, B, Neutral, Ground)
230	Open-Delta Three	60	5 Wires (A, B, C, Neutral, Ground)

The Hoover Pumping Systems pump system is supplied with an Underwriters Laboratory® listed enclosed Industrial Control Panel assembly. The Control Panel assembly contains all of the pump system controls, a main disconnect, and a ground connection. All panel penetrations by the installing electrician must use fittings and methods rated NEMA 4 or NEMA 4X. A separate service disconnect is required for systems less than 40 total horsepower.

The pump station will include the following pump motor loads:

Load	Horsepower	Amps <sup>1</sup>	Service Factor
Pump#1	10	Based on voltage/phase	1.15
Control Panel	N/A	9	N/A

The data here may be used for selection of appropriate electrical supply equipment, including feeder, branch circuit protection, and disconnects.

Please contact Hoover Pumping Systems at (954) 971-7350 for assistance with voltage drop or other application considerations. Thank you.

<sup>1</sup> Pump motor Full Load Amps (FLA), larger of variable frequency drive rated input current (ref. N.E.C. 430-122), or motor FLA per N.E.C. tables 430-148 and 430-150.



Clark Irrigation Design & Consulting, Inc.  
 Sustaining Landscapes. Conserving Water.  
 P.O. Box 693 Lavonia, Ga 30553  
 O: 706-356-0309 F: 706-356-1948

Wood+Partners Inc. WPI  
 Landscape Architects  
 Land Planners

612 South Copeland Tallahassee, Florida 32304  
 850.391.0360 Fax: 866.305.6286 http://www.woodandpartners.com

LEON COUNTY DEPARTMENT OF PUBLIC WORKS 2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501	R E V I S I O N S NO. DATE DESCRIPTION BY
	DESIGNED BY PH DRAWN BY PH CHECKED BY SK SK
IRRIGATION PLAN FRED GEORGE GREENWAY LEON COUNTY, FLORIDA	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE
DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2648 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM	MARK L BAKER, R.L.A. ASLA FLORIDA CERTIFICATION NO. LA8686776
10-0547-004 1" = 20' DATE: 08/01/2014 DRAWING: LA-13	FL LC#0000364 850.391.0360

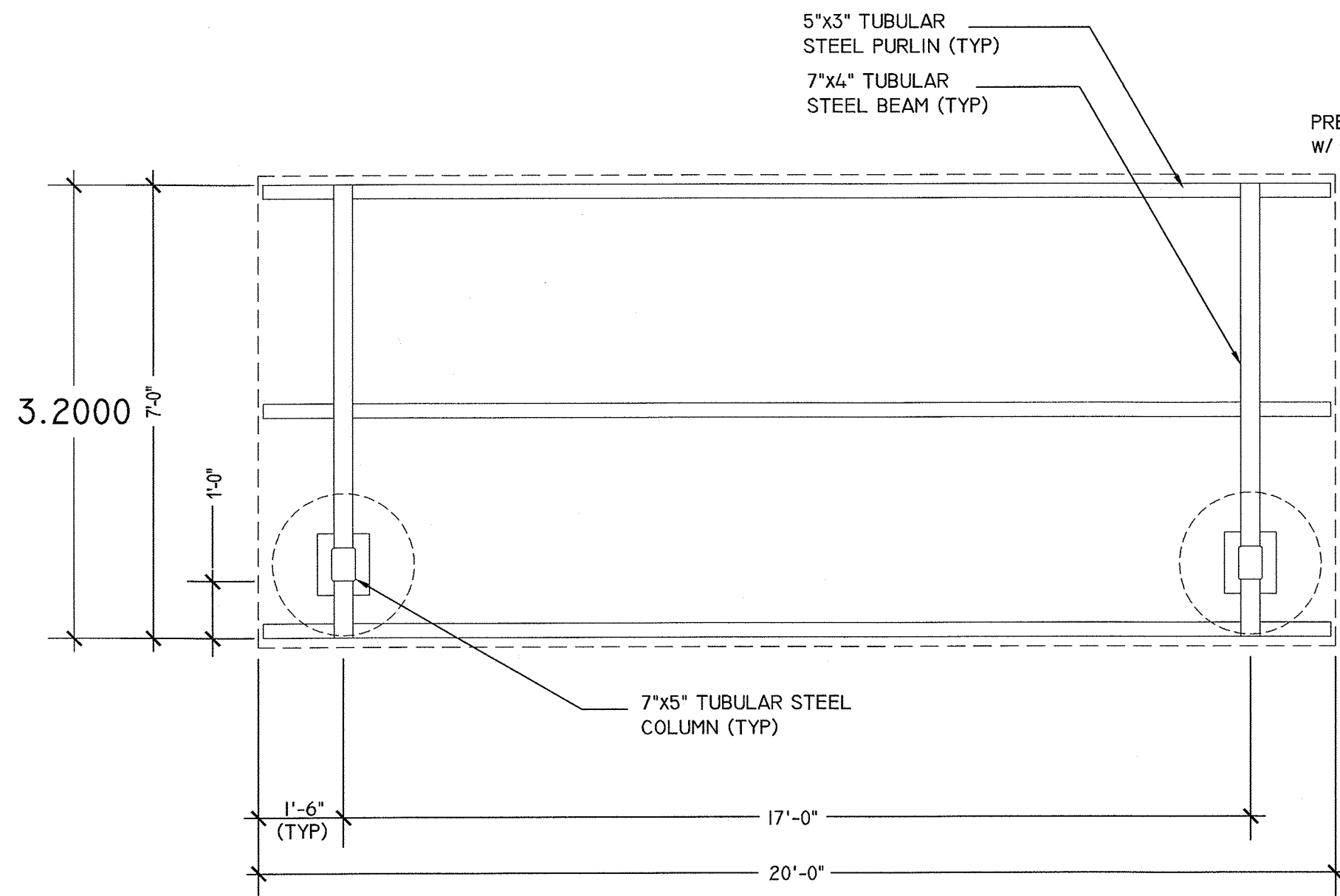




MANUFACTURER:  
 BELSON OUTDOORS, INC.  
 111 NORTH RIVER ROAD  
 NORTH AURORA, IL 60542  
 (800) 323-5664  
 WWW.BELSON.COM

BLEACHER WITH PICKET GUARDRAIL  
 MODEL#: BGS-008  
 ROWS/SEATING CAPACITY: 5/58  
 MATERIAL: ALUMINUM  
 LENGTH: 21'

1 BLEACHERS  
 LD-1 NOT TO SCALE



FRAMING PLAN

MODEL: CD-0818-SW - STEELWORX CANTILEVERED DUGOUT - 8' X 18'

SELECT DESIRED COLOR:

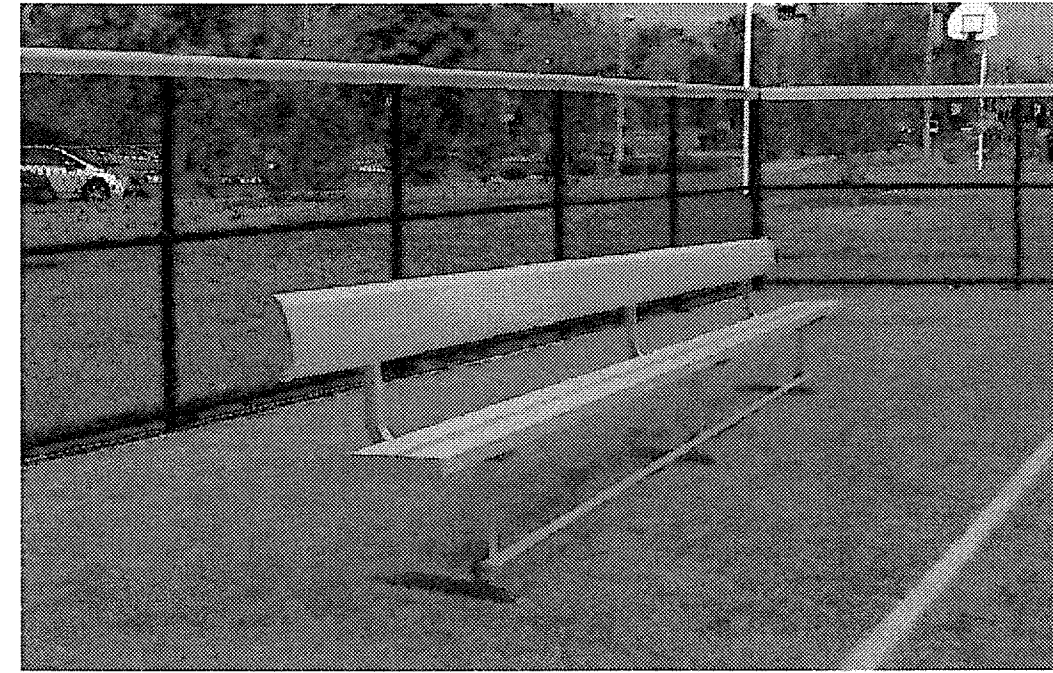
- |   |                                       |                                      |   |
|---|---------------------------------------|--------------------------------------|---|
| <input type="checkbox"/> WHITE            | <input type="checkbox"/> ROMAN BLUE   | <input type="checkbox"/> CHARCOAL    | <input type="checkbox"/> TERRATONE      |
| <input type="checkbox"/> CLAY             | <input type="checkbox"/> SURREY BEIGE | <input type="checkbox"/> TUDOR BROWN | <input type="checkbox"/> EVERGREEN      |
| <input type="checkbox"/> IVORY            | <input type="checkbox"/> ASH GREY     | <input type="checkbox"/> MATTE BLACK | <input type="checkbox"/> BRANDYWINE     |
| <input type="checkbox"/> PATRICIAN BRONZE | <input type="checkbox"/> LIGHT STONE  | <input type="checkbox"/> AUTUMN RED  | <input type="checkbox"/> HARTFORD GREEN |



COVERWORX RECREATIONAL ARCHITECTURE  
 11800 EAST NINE MILE ROAD  
 WARREN, MI, 48089  
 TOLL FREE: 1-800-657-6118  
 PHONE: (586) 486-1088  
 FAX: (586) 754-9130  
 WWW.COVERWORX.NET

- NOTES:  
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
 2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.  
 3. DO NOT SCALE DRAWING.

3 DUGOUT SHELTER  
 LD-1 NOT TO SCALE

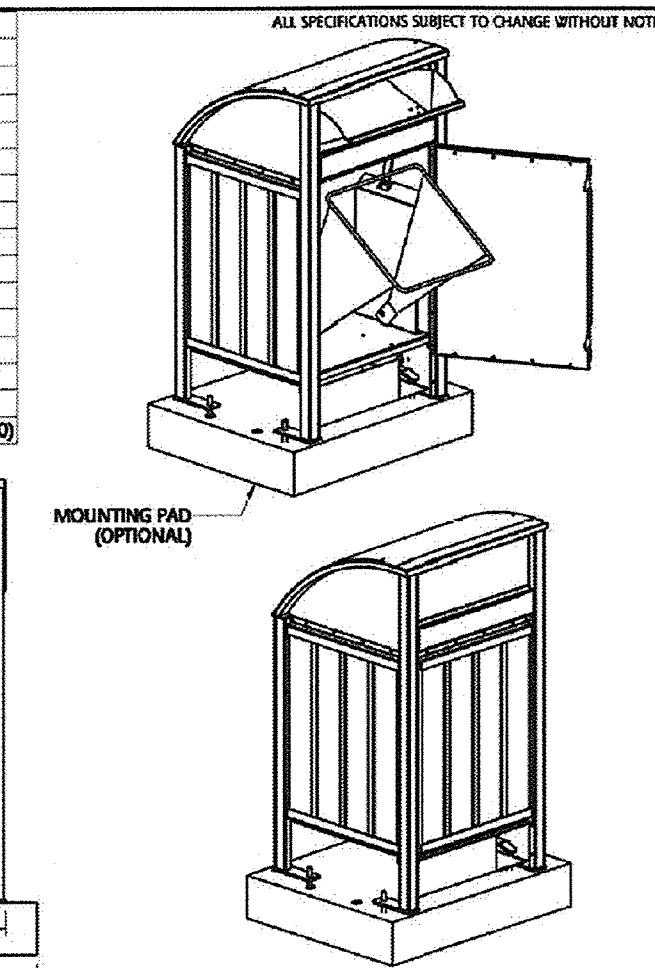


MANUFACTURER:  
 BELSON OUTDOORS, INC.  
 111 NORTH RIVER ROAD  
 NORTH AURORA, IL 60542  
 (800) 323-5664  
 WWW.BELSON.COM

TEAM DUGOUT BENCHES WITH BACKREST  
 MODEL#: ABS8WB-S  
 MATERIAL: ALUMINUM WITH GALVANIZED FRAMES  
 LENGTH: 8'

2 DUGOUT BENCH  
 LD-1 NOT TO SCALE

FEATURE	DESCRIPTION	SPECIFICATION
Capacity	Tilt Out Bag Cage	4-1/4 cu.ft. 32 US Gallons (120L)
	Poly Bag	2.5 mil 42 x 50 (1070 x 1270)
	Optional Polyethylene Liner	Reusable
Construction	Housing	14 Ga. (1.9) Galvalume Steel
	Floor	12 Ga. (2.6) Galvalume Steel
	User Door	14 Ga. (1.9) Galvalume Steel
	Side Hinged Unloading Door	12 Ga. (2.6) Galvalume Steel
	Hinges and Latches	Stainless Steel
	Paint	Powder Coat
	Siding	Recycled Plastic
Weights	Freedom Container w/ Siding Kit	220lbs (100kg)
(Optional)	Pre-Cast Mounting Pad (HIG-3901)	300lbs (136kg) 30x24x5.5 (760x610x140)



TRAILER SIZE	QTY	HAUL-ALL EQUIPMENT LTD. reserves proprietary rights on this drawing or any part of the information contained thereon. This drawing shall be considered confidential and is not to be used for competitive bidding nor for use in any procurement other than from Haul-All Equipment Ltd.
B-1/2R x 45R	88	
B-1/2R x 33R	104	
B-Train B-1/2R x 28R & 32R	120	
Double Decker Van B-1/2R x 48R	192	

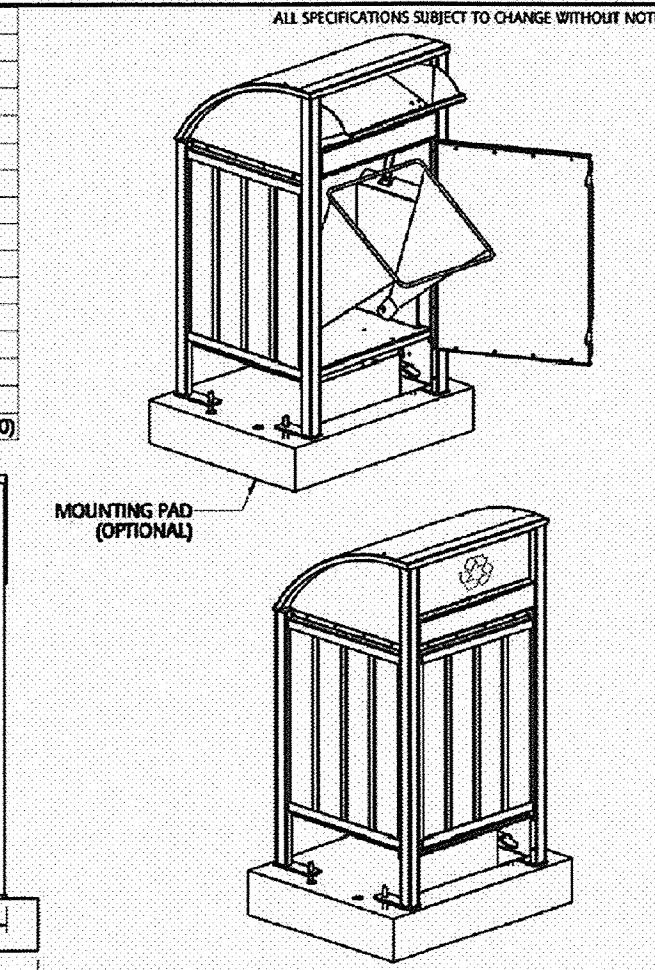


NAME	FREEDOM 32 CONTAINER
PART NUMBER	HF32S
DATE	APRIL 03, 2012

NOTE:  
 OWNER TO PROVIDE ARTWORK FOR LEON COUNTY LOGO.

4 TRASH RECEPTACLE  
 LD-1 NOT TO SCALE

FEATURE	DESCRIPTION	SPECIFICATION
Capacity	Tilt Out Bag Cage	4-1/4 cu.ft. 32 US Gallons (120L)
	Poly Bag	2.5 mil 42 x 50 (1070 x 1270)
	Optional Polyethylene Liner	Reusable
Construction	Housing	14 Ga. (1.9) Galvalume Steel
	Floor	12 Ga. (2.6) Galvalume Steel
	User Door	14 Ga. (1.9) Galvalume Steel
	Side Hinged Unloading Door	12 Ga. (2.6) Galvalume Steel
	Hinges and Latches	Stainless Steel
	Paint	Powder Coat
	Siding	Recycled Plastic
Weights	Freedom Container w/ Siding Kit	220lbs (100kg)
(Optional)	Pre-Cast Mounting Pad (HIG-3901)	300lbs (136kg) 30x24x5.5 (760x610x140)



TRAILER SIZE	QTY	HAUL-ALL EQUIPMENT LTD. reserves proprietary rights on this drawing or any part of the information contained thereon. This drawing shall be considered confidential and is not to be used for competitive bidding nor for use in any procurement other than from Haul-All Equipment Ltd.
B-1/2R x 45R	88	
B-1/2R x 33R	104	
B-Train B-1/2R x 28R & 32R	120	
Double Decker Van B-1/2R x 48R	192	



NAME	FREEDOM 32 CONTAINER
PART NUMBER	HF32S
DATE	APRIL 03, 2012

NOTE:  
 OWNER TO PROVIDE ARTWORK FOR LEON COUNTY LOGO.

5 RECYCLING RECEPTACLE  
 LD-1 NOT TO SCALE

FEATURE	DESCRIPTION	SPECIFICATION
Capacity	Tilt Out Bag Cage	4-1/4 cu.ft. 32 US Gallons (120L)
	Poly Bag	2.5 mil 42 x 50 (1070 x 1270)
	Optional Polyethylene Liner	Reusable
Construction	Housing	14 Ga. (1.9) Galvalume Steel
	Floor	12 Ga. (2.6) Galvalume Steel
	User Door	14 Ga. (1.9) Galvalume Steel
	Side Hinged Unloading Door	12 Ga. (2.6) Galvalume Steel
	Hinges and Latches	Stainless Steel
	Paint	Powder Coat
	Siding	Recycled Plastic
Weights	Freedom Container w/ Siding Kit	220lbs (100kg)
(Optional)	Pre-Cast Mounting Pad (HIG-3901)	300lbs (136kg) 30x24x5.5 (760x610x140)



TRAILER SIZE	QTY	HAUL-ALL EQUIPMENT LTD. reserves proprietary rights on this drawing or any part of the information contained thereon. This drawing shall be considered confidential and is not to be used for competitive bidding nor for use in any procurement other than from Haul-All Equipment Ltd.
B-1/2R x 45R	88	
B-1/2R x 33R	104	
B-Train B-1/2R x 28R & 32R	120	
Double Decker Van B-1/2R x 48R	192	



NAME	FREEDOM 32 CONTAINER
PART NUMBER	HF32S
DATE	APRIL 03, 2012

NOTE:  
 OWNER TO PROVIDE ARTWORK FOR LEON COUNTY LOGO.

R E V I S I O N S  
 NO. DATE DESCRIPTION BY  
 DESIGNED BY DM/PH  
 DRAWN BY KL  
 CHECKED BY PH  
 PH

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

LEON COUNTY, FLORIDA  
 FRED GEORGE GREENWAY  
 DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

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 Certificate of Authorization No. 2648  
 1435 East Piedmont Drive, Suite 210  
 Tallahassee, Florida 32308  
 Phone: 850.562.9600 WWW.DRMP.COM

Mark L. Baker, RLA, ASLA  
 Florida Cert. #LA6666776  
 10-0547-004  
 AS SHOWN  
 DATE: 7/31/2014  
 DRAWING: LD-1

**Wood+Partners Inc. WPI**  
 Landscape Architects  
 Land Planners

612 South Copeland ■ Tallahassee, Florida 32304  
 850.391.0360 ■ Fax 866.305.6286 ■ http://www.woodandpartners.com



**MANUFACTURER:**

MUSCO LIGHTING  
1001 1ST AVENUE  
OSKALOOSA, IA 52577  
(800) 825-6030  
WWW.MUSCO.COM

**LIGHT-STRUCTURE GREEN**  
SEE LIGHTING SCHEDULE FOR  
INDIVIDUAL LIGHT FIXTURE  
INFORMATION  
INSTALL POLES/FOUNDATIONS PER  
MANUFACTURER'S RECOMMENDATIONS

**NOTE: PARK HOURS FOR BALL FIELD USE**  
END AT 10:00 PM.  
ALL FIELD LIGHTING WILL BE TURNED OFF  
NO LATER THAN 10:30 PM.

EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	SIZE	WATTAGE	WATTAGE	WATTAGE	WATTAGE	WATTAGE	WATTAGE	WATTAGE
1	A1	70"	30"	24 LED	1	1	0		
1	A2	70"	30"	24 LED	1	1	0		
1	B1	80"	30"	24 LED	1	1	0		
1	B2	80"	30"	24 LED	1	1	0		
1	C1	70"	30"	24 LED	1	1	0		
1	C2	70"	30"	24 LED	1	1	0		
1	S1	70"	30"	24 LED	1	1	0		
1	S2	70"	30"	24 LED	1	1	0		
2	S3-44	70"	30"	24 LED	78	78	0		

Pole location(s) dimensions are relative to 0.0 reference point(s)

**Light-Structure Green™**

A complete sports-lighting system designed and manufactured from foundation to poletop in 5 Easy Pieces™.

**Unequaled performance . . . for your budget, for the environment.**

- Cuts operating costs in half
- Reduces spill light by 50%
- Includes system monitoring and remote on/off control
- Provides guaranteed Constant Light™

**5 Easy Pieces™**

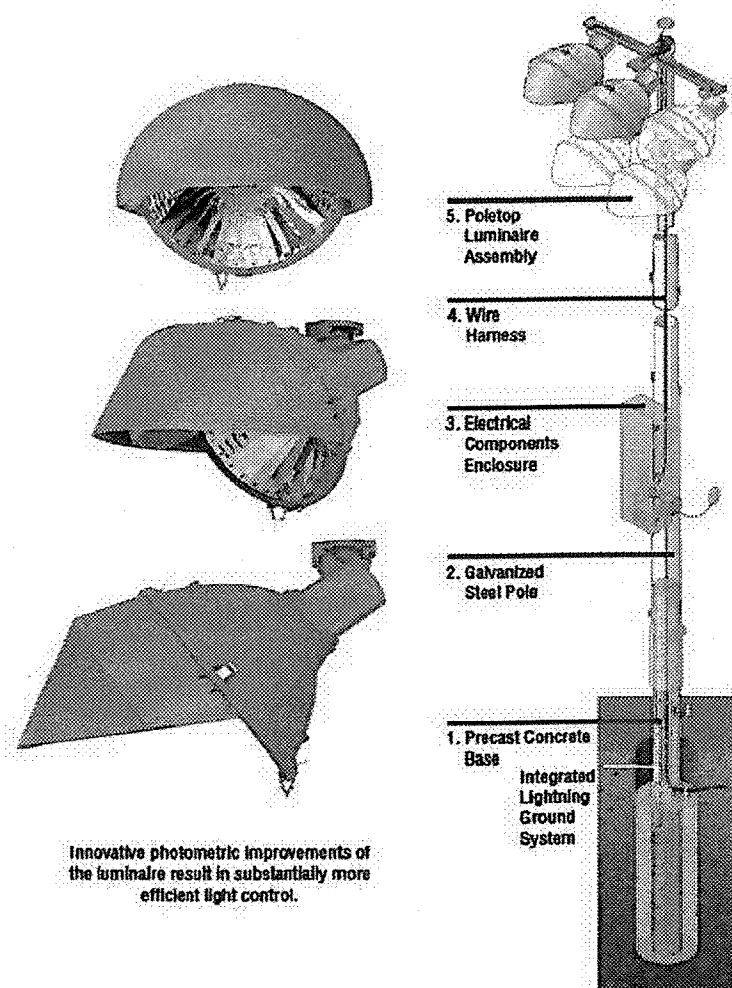
- Complete system from foundation-to-poletop
- Factory wired, aimed and tested
- Fast, trouble-free installation
- Comprehensive corrosion package

**Warranty**

Musco's Constant 25™ — 25-year product assurance and warranty program.

Provides 25 years of trouble-free lighting equipment operation, including parts, labor, and group lamp replacement.

Request More Information

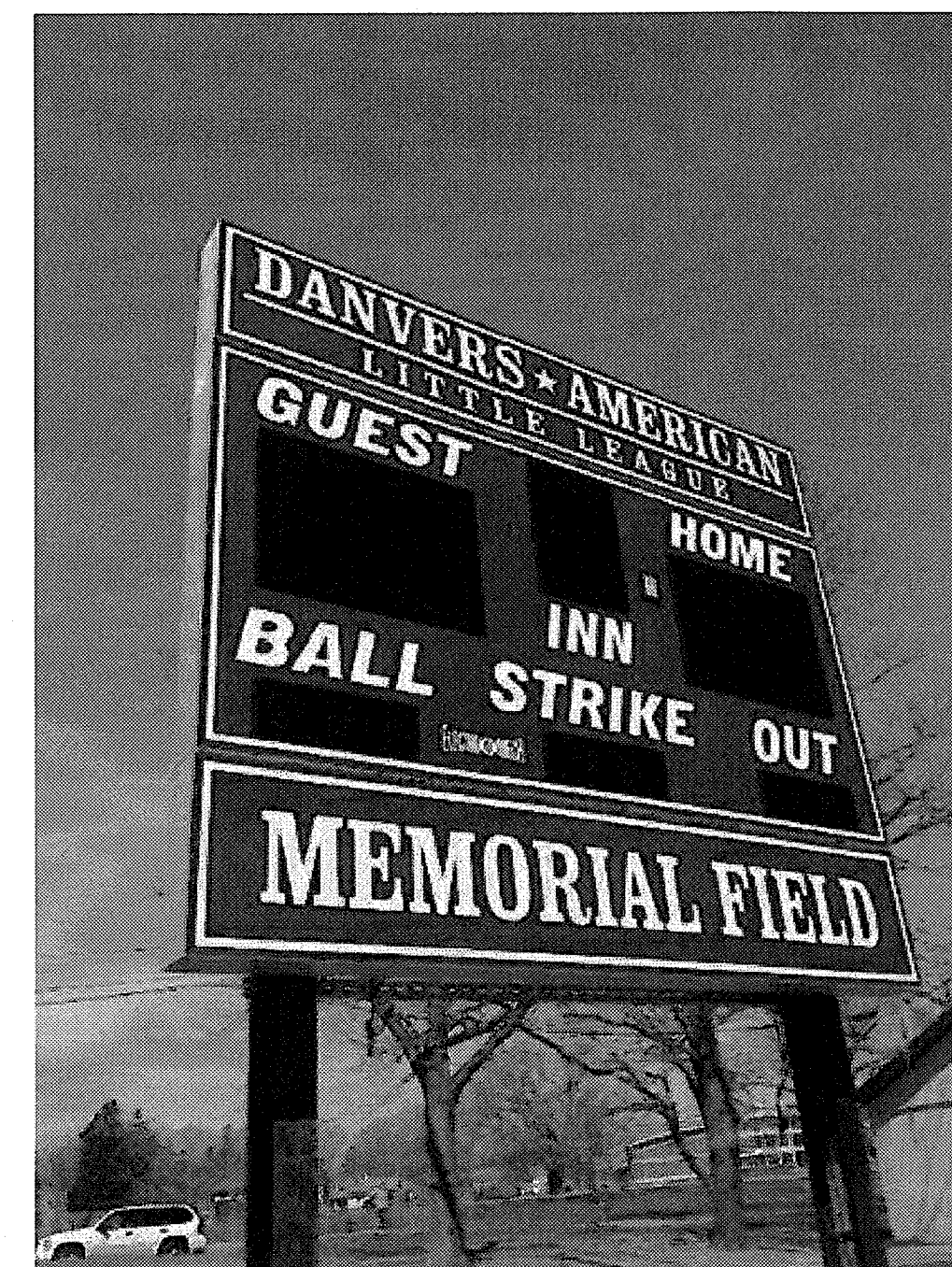
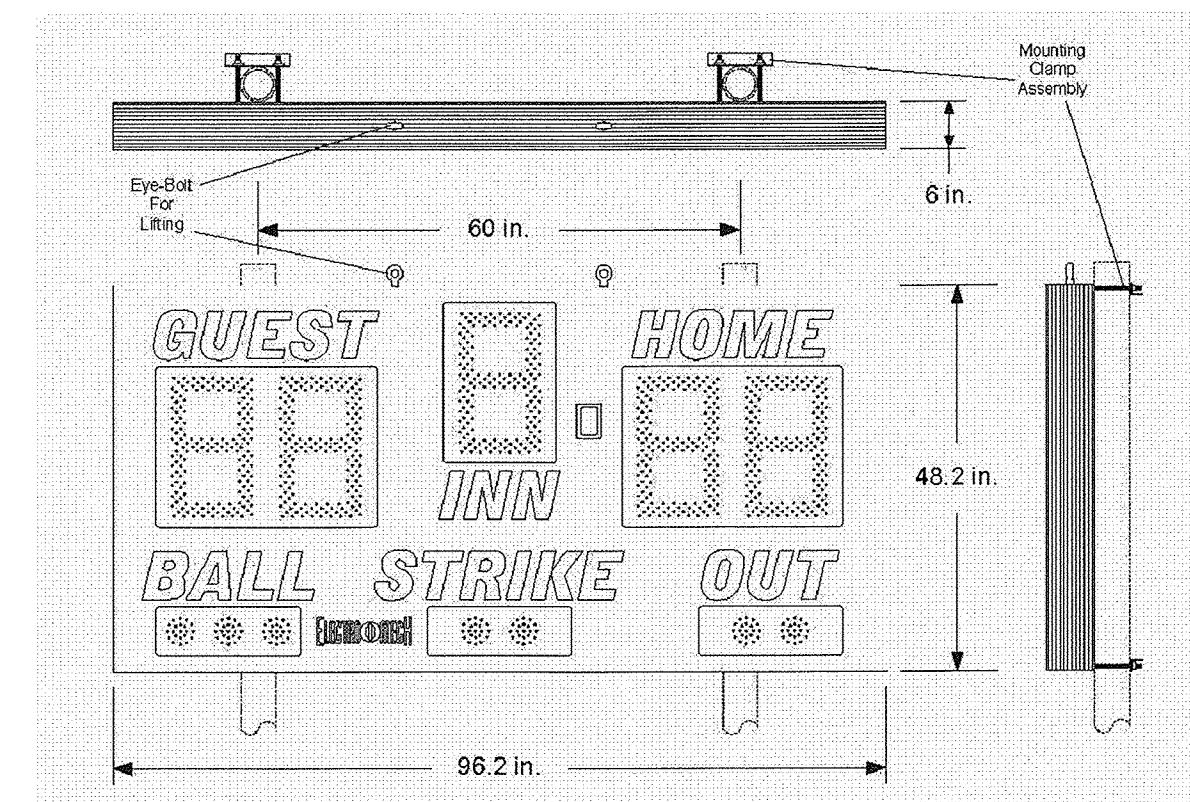


Innovative photometric improvements of the luminaire result in substantially more efficient light control.

**MANUFACTURER:**

ELECTRO-MECH SCOREBOARD CO.  
72 INDUSTRIAL BOULEVARD  
WRIGHTSVILLE, GA 31096  
(800) 677-4780

MODEL #: LX1030  
SIZE: 8' X 4'  
ELECTRONIC SYSTEM: WIRELESS  
SCOREBOARD FACE: BLACK  
ACCENT STRIPING: WHITE  
CAPTIONS: WHITE  
LED COLOR: AMBER  
INSTALL PER MANUFACTURER'S RECOMMENDATIONS  
CONTRACTOR TO PROVIDE SHOP DRAWINGS OF FOUNDATION

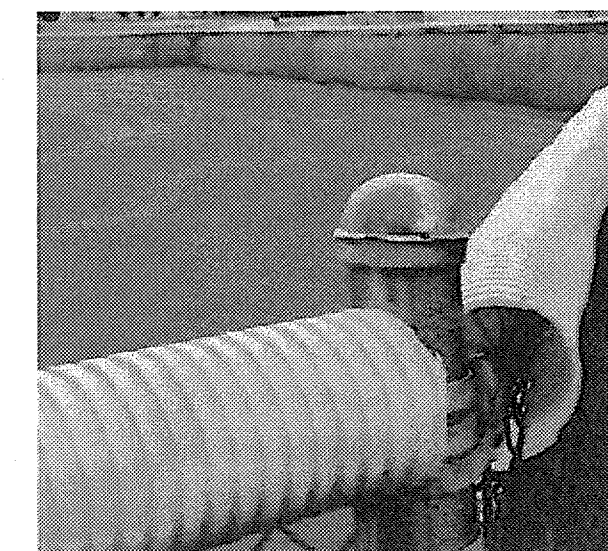


**2 SCOREBOARD**  
LD-2 NOT TO SCALE



MASTER-HALCO  
4000 W. METROPOLITAN DR. SUITE 400  
ORANGE, CA, USA 92668  
TOLL FREE: 1-800-229-5615  
PHONE: (714) 978-5516  
FAX: (714) 385-0104

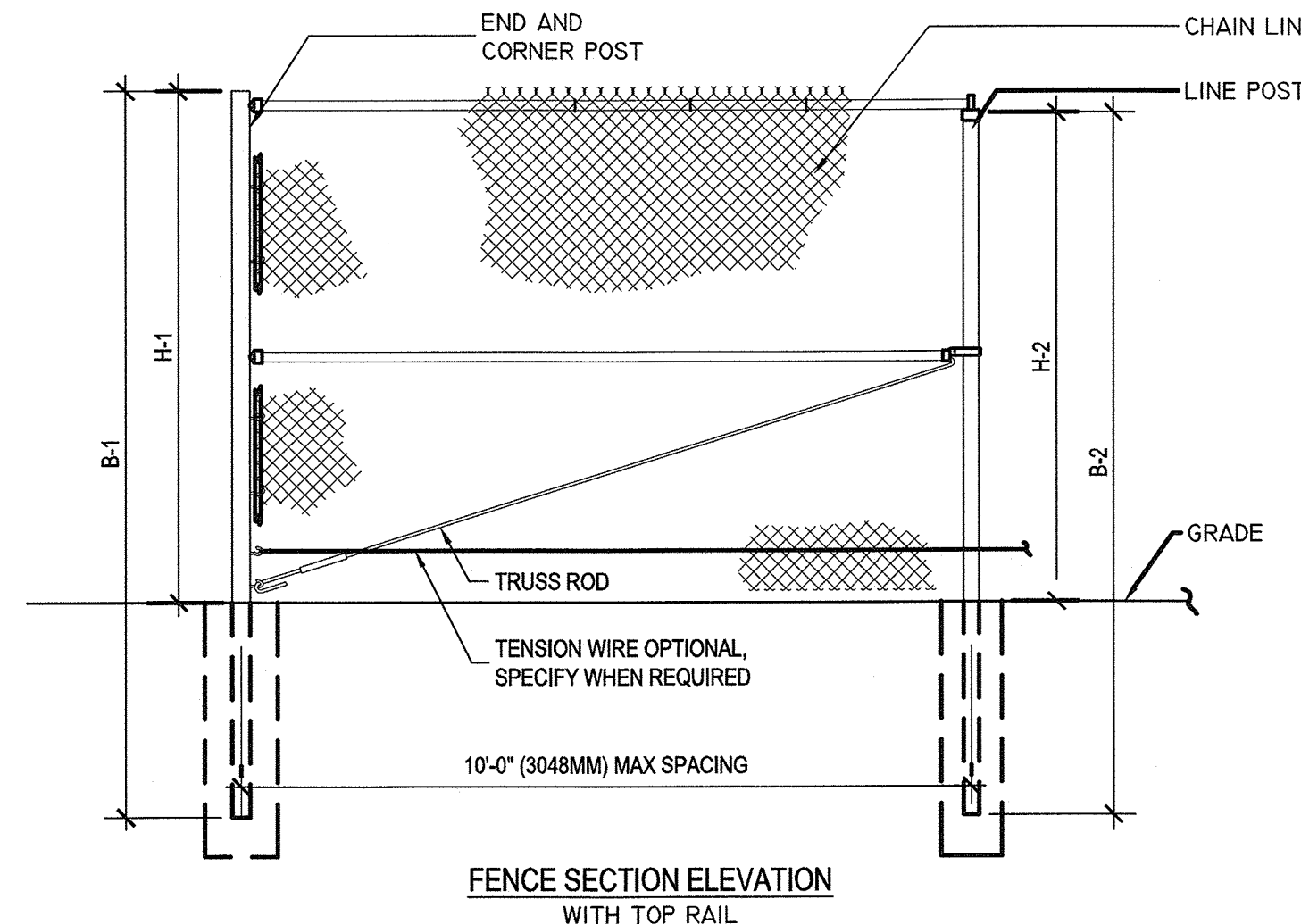
www.FenceOnline.com



**MANUFACTURER:**

ANTHEM SPORTS  
2 EXTRUSION DRIVE  
PAWCATUCK, CT 06379  
(800) 688-6709  
WWW.ANTHEM-SPORTS.COM

POLY-CAP FENCE TOP PROTECTOR  
ANTHEM PART #: A-15-802  
SIZE: 4 1/2" DIAMETER  
LENGTH: 250' (AS MUCH AS NECESSARY)  
LOCATION: ATOP ALL FENCE 6' HIGH AND LOWER

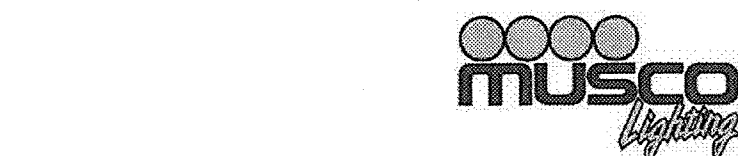


**3 FENCE**  
LD-2 NOT TO SCALE

NOT TO SCALE  
NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. DO NOT SCALE DRAWINGS.

SELECT DESIRED HEIGHT

FENCE HEIGHT	END & CORNER POSTS		LINE POSTS	
	NOMINAL HEIGHT	BAR LENGTH	HEIGHT ABOVE GRADE	HEIGHT ABOVE GRADE
<input type="checkbox"/> 5'-0" [1524MM]	8'-0" [2438MM]	5'-0 5/8" [1540MM]	7'-8" [2337MM]	4'-8 7/8" [1445MM]
<input type="checkbox"/> 6'-0" [1829MM]	9'-0" [2743MM]	6'-0 5/8" [1845MM]	8'-8" [2642MM]	5'-8 7/8" [1749MM]
<input type="checkbox"/> 7'-0" [2134MM]	10'-0" [3048MM]	7'-0 5/8" [2150MM]	9'-8" [2946MM]	6'-8 7/8" [2054MM]
<input type="checkbox"/> 8'-0" [2438MM]	11'-0" [3353MM]	8'-0 5/8" [2454MM]	10'-8" [3251MM]	7'-8 7/8" [2359MM]
<input type="checkbox"/> 9'-0" [2743MM]	12'-0" [3658MM]	9'-0 5/8" [2759MM]	11'-8" [3556MM]	8'-8 7/8" [2664MM]
<input type="checkbox"/> 10'-0" [3048MM]	13'-0" [3962MM]	10'-0 5/8" [3064MM]	12'-8" [3861MM]	9'-8 7/8" [2969MM]
<input type="checkbox"/> 11'-0" [3353MM]	14'-0" [4267MM]	11'-0 5/8" [3369MM]	13'-8" [4166MM]	10'-8 7/8" [3273MM]
<input type="checkbox"/> 12'-0" [3658MM]	15'-0" [4572MM]	12'-0 5/8" [3674MM]	14'-8" [4470MM]	11'-8 7/8" [3578MM]



MY PROJECT	
Name:	Leon County Regional Park - Fred George Park
Location:	Tallahassee, FL
GRID SUMMARY	
Name:	Spill
Size:	0' x 20.0'
Spacing:	3.0' above grade
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOT CANDLES
Entire Grid	
Scan Average:	88.6
Maximum:	58.1
Minimum:	0
Avg / Min:	167.61
Max / Min:	1163.29
UG (adjacent pts):	4.55
CU:	0.84
No. of Points:	2431
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation / LED / SSL
Rated Lamp Life:	5,000 / 12,000 / 100,000 hrs
Design Lumens:	134,000 / 88,000 / 3,950
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	78
Avg KW:	114.31 (124.68 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.



MY PROJECT	
Name:	Leon County Regional Park - Fred George Park
Location:	Tallahassee, FL
GRID SUMMARY	
Name:	Roadway Spill
Spacing:	30.0'
Height:	3.0' above grade
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOT CANDLES
Entire Grid	
Scan Average:	0.285
Maximum:	0.436
Minimum:	0.00
No. of Points:	78
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation / LED / SSL
Rated Lamp Life:	5,000 / 12,000 / 100,000 hrs
Design Lumens:	134,000 / 88,000 / 3,950
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	78
Avg KW:	114.31 (124.68 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

**1 FIELD LIGHTING**  
LD-2 NOT TO SCALE

**Wood+Partners Inc. WPI**  
Landscape Architects  
Land Planners

612 South Copeland ■ Tallahassee, Florida 32304  
850.391.0360 ■ Fax 866.305.6286 ■ http://www.woodandpartners.com

NO.	DATE	DESCRIPTION	BY				
				NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DM/PH	KL	PH	PH

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
2280 MICCOSUKEE ROAD  
TALLAHASSEE, FL 32308  
PHONE (850) 606-1500  
FAX (850) 606-1501

LEON COUNTY, FLORIDA  
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

SITE DETAILS  
**FRED GEORGE GREENWAY**  
LEON COUNTY, FLORIDA

**DRMP**  
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
Certificate of Authorization No. 2648  
1435 East Piedmont Drive, Suite 210  
Tallahassee, Florida 32308  
Phone: 850.562.9600 WWW.DRMP.COM

Mark L. Baker, RLA, ASLA  
Florida Cert. #LA6666776

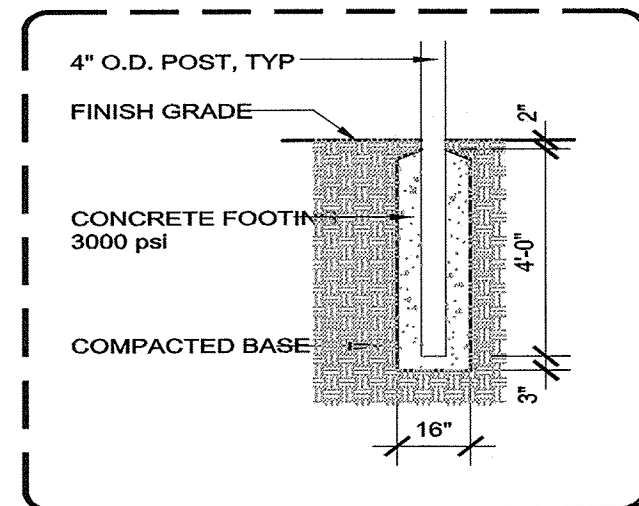
10-0547.004  
AS SHOWN  
DATE: 04/29/2014  
DRAWING: LD-2



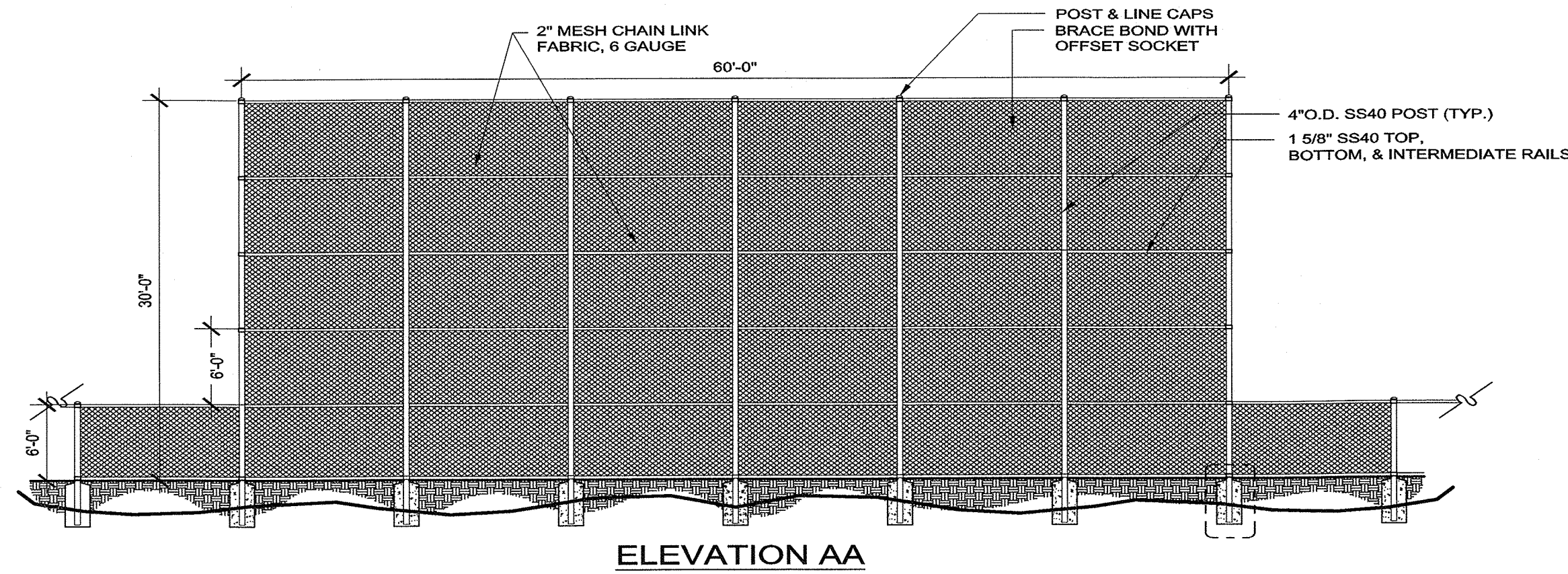
MANUFACTURER:  
 PUTTERMAN ATHLETICS  
 4834 S. OAKLEY AVENUE  
 CHICAGO, IL 60609  
 (800) 621-0146  
 WWW.MPUTTERMAN.COM

MODEL\* TENN-AIR VCP  
 SHADING: 70-80%  
 COLOR: FOREST GREEN  
 SCREEN SIZE: 60'X30'  
 LOCATION: OVER CHAIN LINK

- NOTES:
1. POSTS & RAILS SHALL BE INSTALLED ON OUTSIDE OF BATTERS EYE.
  2. ALL POSTS SHALL BE 4" O.D.
  3. ALL CHAIN LINK FENCING SHALL BE PVC COATED.
  4. ALL CHAIN LINK FENCING IN BATTERS EYE SHALL BE COVERED WITH VYNAL COATED POLYESTER MATERIAL WITH 70-80% SHADING IN FOREST GREEN TO MANUFACTURERS RECOMMENDATIONS.
  5. FOOTING TO BE DESIGNED BY A STRUCTURAL ENGINEER.

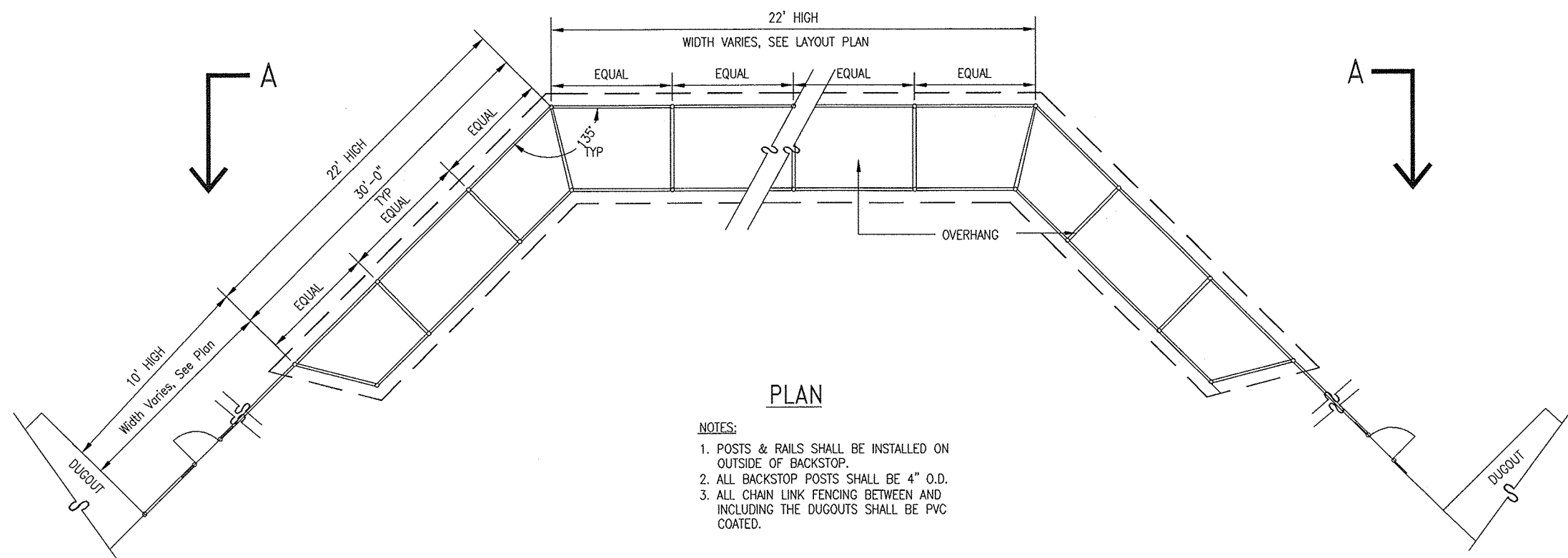


FOOTING ENLARGEMENT  
 NOT TO SCALE



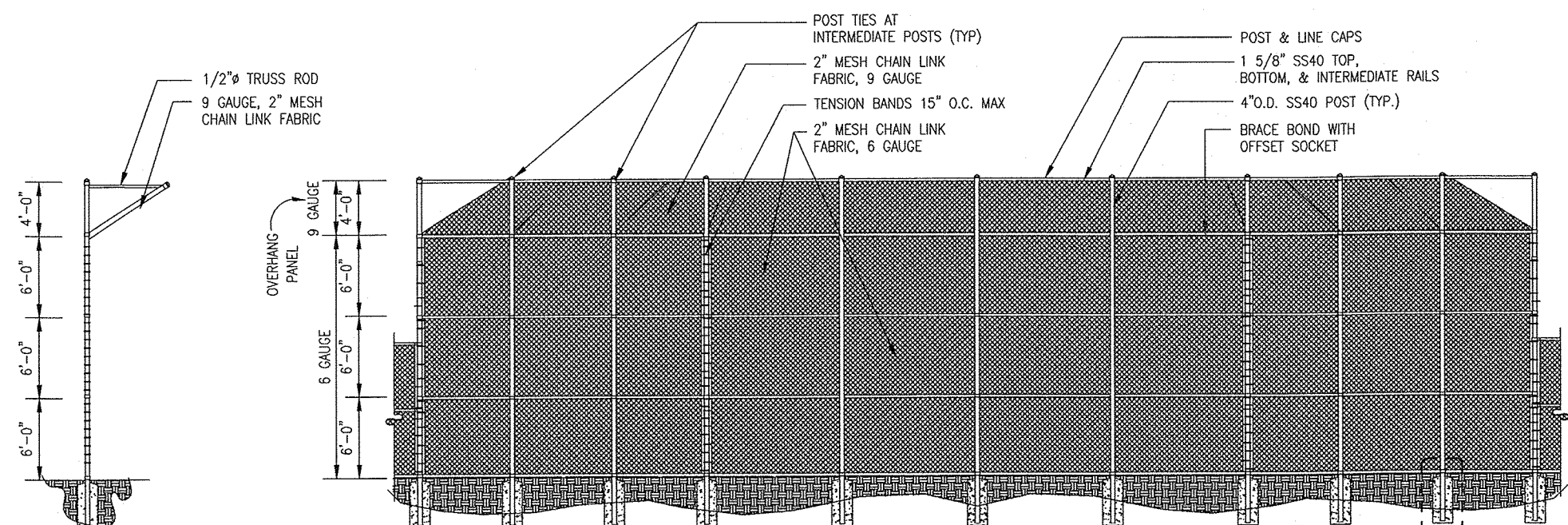
ELEVATION AA

1 BATTERS EYE - OUTFIELD  
 LD-3 NOT TO SCALE



PLAN

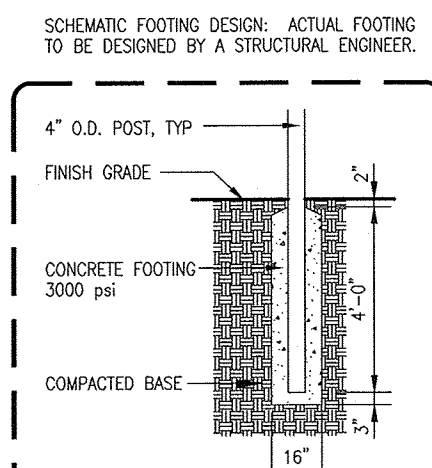
- NOTES:
1. POSTS & RAILS SHALL BE INSTALLED ON OUTSIDE OF BACKSTOP.
  2. ALL BACKSTOP POSTS SHALL BE 4" O.D.
  3. ALL CHAIN LINK FENCING BETWEEN AND INCLUDING THE DUGOUTS SHALL BE PVC COATED.



SECTION

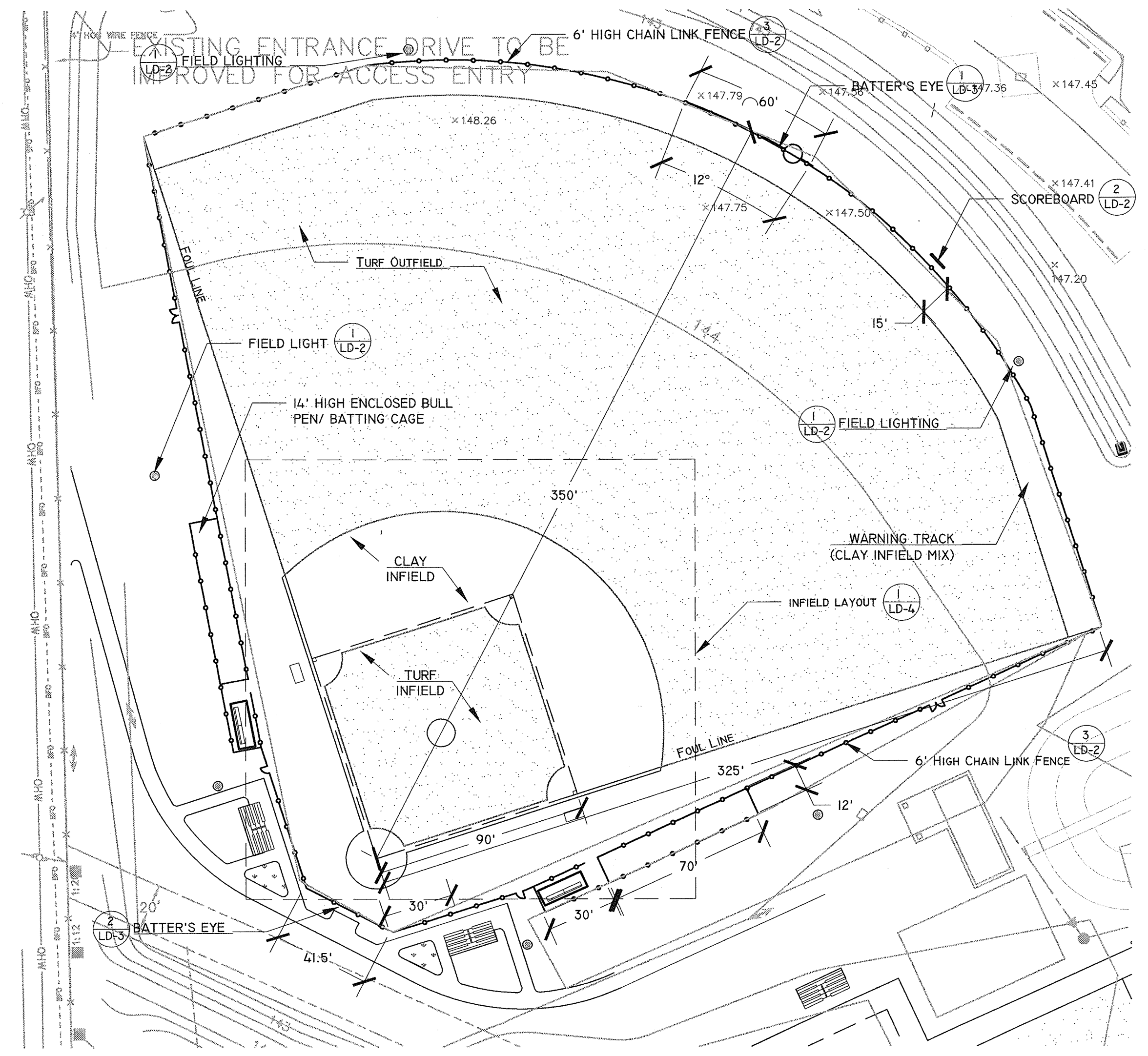
ELEVATION AA

D\_SBAC.DWG  
 SCALE: 1/8"=1'



FOOTING ENLARGEMENT  
 NOT TO SCALE

2 BATTERS EYE - INFIELD  
 LD-3 NOT TO SCALE



3 BASEBALL FIELD PLAN  
 LD-3 SCALE: 1" = 40'

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DRAWN BY	CHECKED BY
DM/PH	KL	PH

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

SITE DETAILS  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA

**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS  
 Certificate of Authorization No. 2848  
 1435 East Piedmont Drive, Suite 210  
 Tallahassee, Florida 32304  
 Phone: 850.932.9600 WWW.DRMP.COM

Mark L. Baker, RLA, ASLA  
 Florida Cert. #LA6666776

10-0547.004  
 AS SHOWN  
 DATE: 04/29/2014  
 DRAWING: LD-3

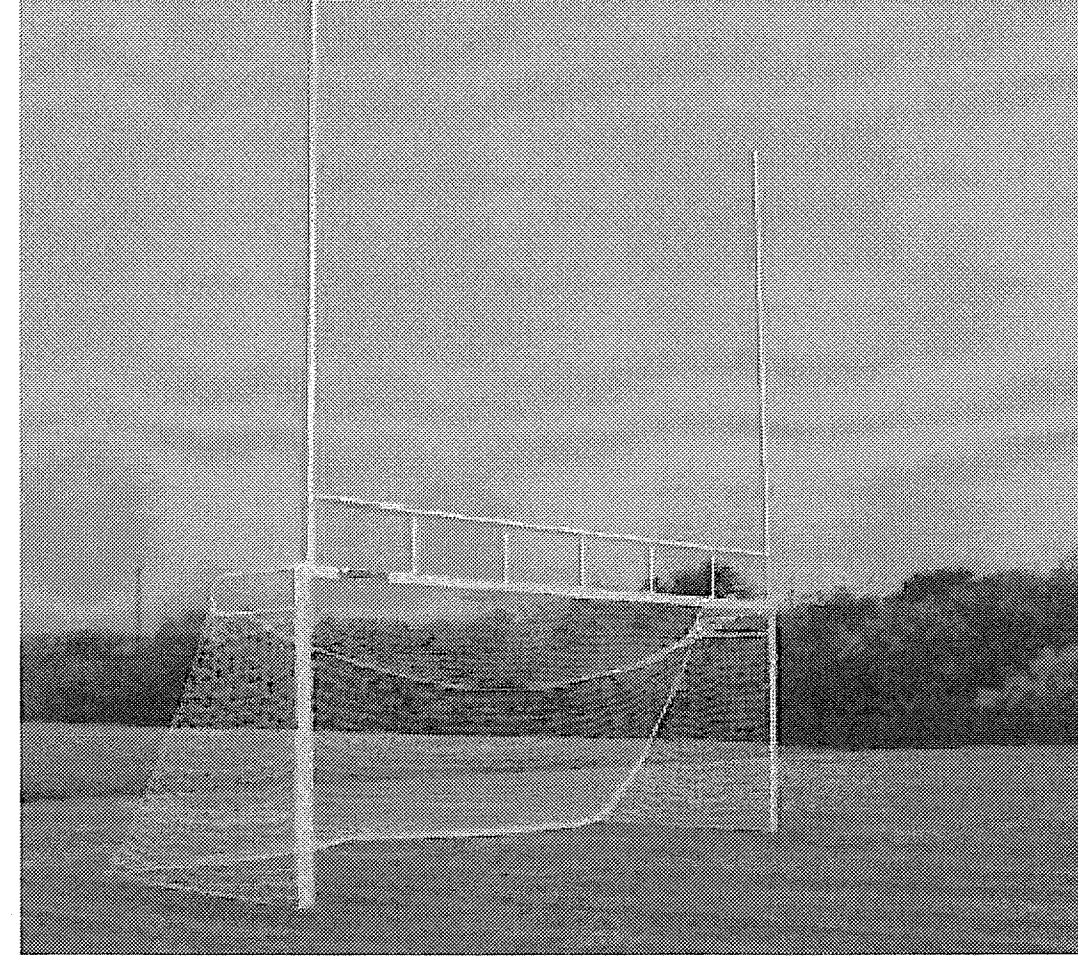
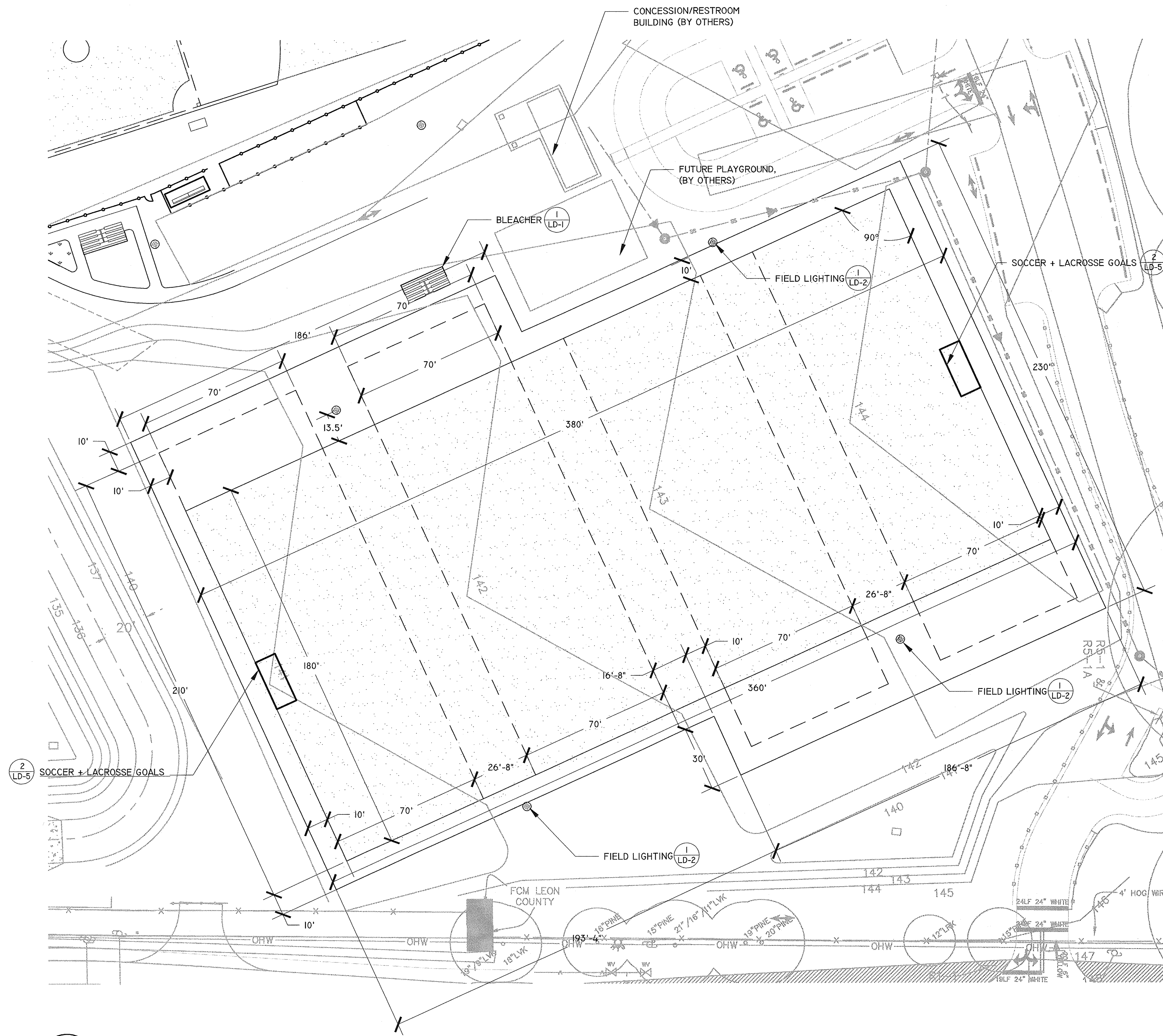
**Wood+Partners Inc. WPI**  
 Landscape Architects  
 Land Planners

612 South Copeland ■ Tallahassee, Florida 32304  
 850.391.0360 ■ Fax 866.305.6286 ■ http://www.woodandpartners.com









MANUFACTURER:  
 ANTHEM SPORTS  
 2 EXTRUSION DRIVE  
 PAWCATUCK, CT 06379  
 (800) 688-6709  
 WWW.ANTHEM-SPORTS.COM

OFFICIAL COMBO FOOTBALL/SOCCER GOALS, PAIR  
 ANTHEM PART #: A-47-172  
 SIZE:  
 SOCCER: 8' H X 24' W X 3' D  
 FOOTBALL: 10' H X 23'-4" W  
 MATERIAL: ALUMINUM  
 COLOR: POWDERCOATED WHITE  
 INSTALLATION: PERMANENT, PER MANUFACTURER'S  
 RECOMMENDATIONS  
 STANDARD: MEET OR EXCEED NFSSHA SPECIFICATIONS

OFFICIAL SOCCER NETS  
 ANTHEM PART #: AII-525  
 SIZE: 4MM, 8' X 24'  
 COLOR: WHITE  
 QUANTITY: 2

2 FOOTBALL POSTS/SOCCER GOALS  
 LD-5 NOT TO SCALE

1 MULTI-USE FIELD LAYOUT  
 LD-5 NOT TO SCALE

NO.	DATE	DESCRIPTION	BY

DESIGNED BY	DM/PH
KL	PH

LEON COUNTY DEPARTMENT OF PUBLIC WORKS

2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

LEON COUNTY

SITE DETAILS

FRED GEORGE GREENWAY

LEON COUNTY, FLORIDA

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PRECEDENCE

**DRMP**  
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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 1435 East Piedmont Drive, Suite 210  
 Tallahassee, Florida 32308  
 Phone: 850.562.9800 WWW.DRMP.COM

*Mark L. Baker*

Mark L. Baker, RLA, ASLA  
 Florida Cert. #LA6666776

10-0547.004

AS SHOWN

DATE: 8/1/2014

DRAWING: LD-5

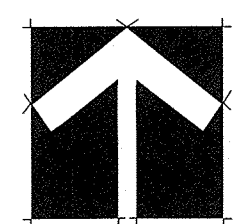
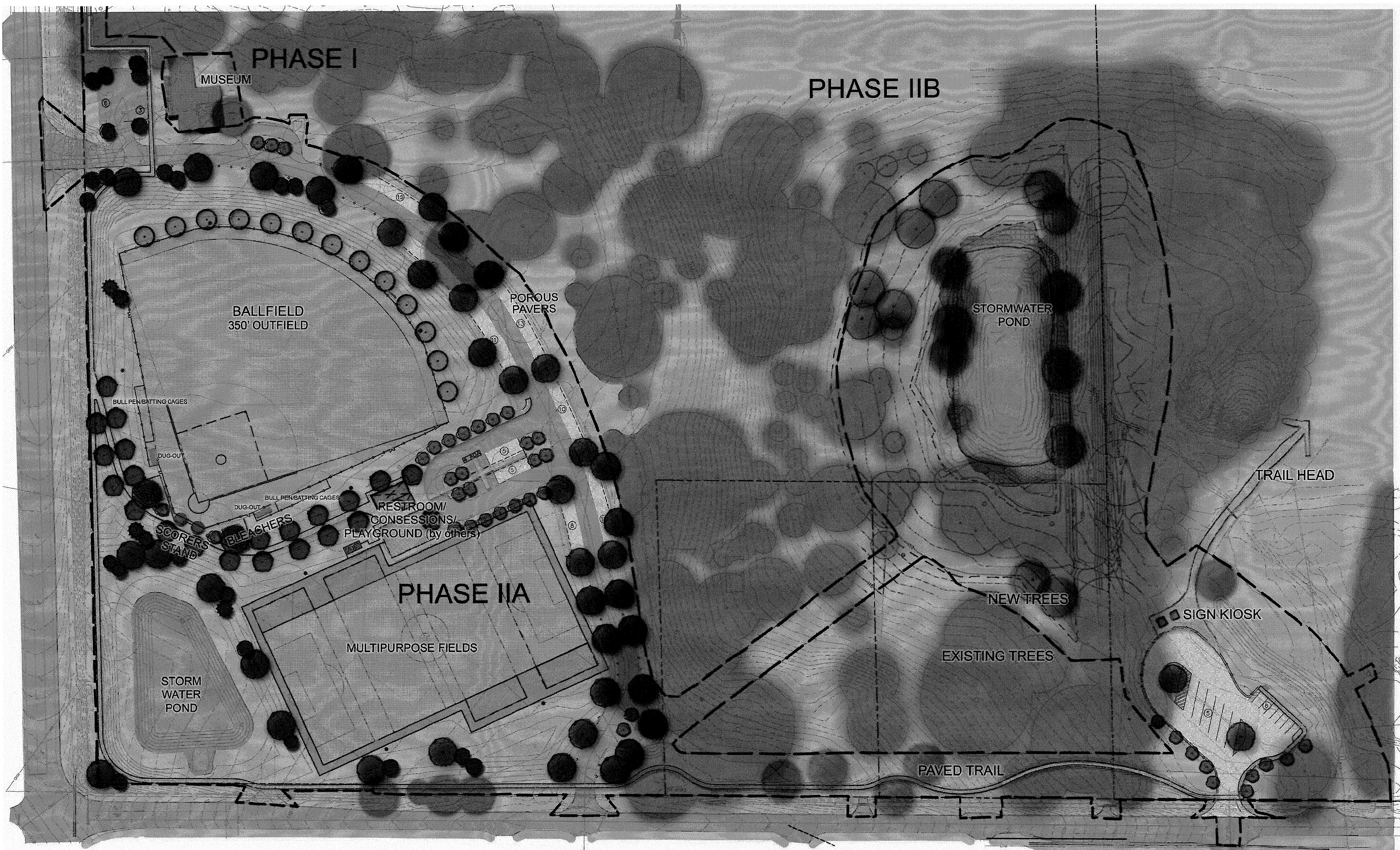
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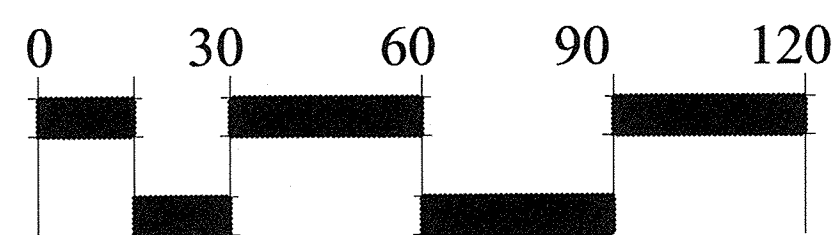








NORTH



SCALE: 1" = 60'

NOTE: CONCEPTUAL PLAN - FINAL LOCATION, SIZE AND CONFIGURATION OF ALL IMPROVEMENTS, TRAILS, AND TRAIL USAGE WITHIN PHASE IIB AND III TO BE DETERMINED DURING PERMITTING OF SUBSEQUENT DEVELOPMENT PHASES.

**Wood+Partners Inc. WPI**  
 Landscape Architects  
 Land Planners

FL LC#000364  
 612 South Copeland ■ Tallahassee, Florida 32304  
 850.391.0360 ■ Fax 866.305.6286 ■ http://www.woodandpartners.com

PH	NO.	DATE	DESCRIPTION	BY
PH				
SK				
SK				

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

PHASE IIA ILLUSTRATIVE  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA

**DRMP**  
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 Certificate of Authorization No. 2648  
 1436 East Piedmont Drive, Suite 210  
 Tallahassee, Florida 32309  
 Phone: 850-562-9600 WWW.DRMP.COM

MARK L. BAKER, RLA, ASLA  
 FLORIDA CERTIFICATION NO. LA968776  
 PROJECT NO.: 10-0547.004  
 SCALE: 1" = 60'  
 DATE: 07/31/2014  
 DRAWING: 6B

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE



P:\Projects\Projects10\10-0547\004\_Fred\_George\_Basin\_Greenway\CADD\Design\Natural\_Features - FCBC.dwg Plotted: Oct 03, 2014 - 1:52pm by hwhitfield

**IMPACT TABLE**

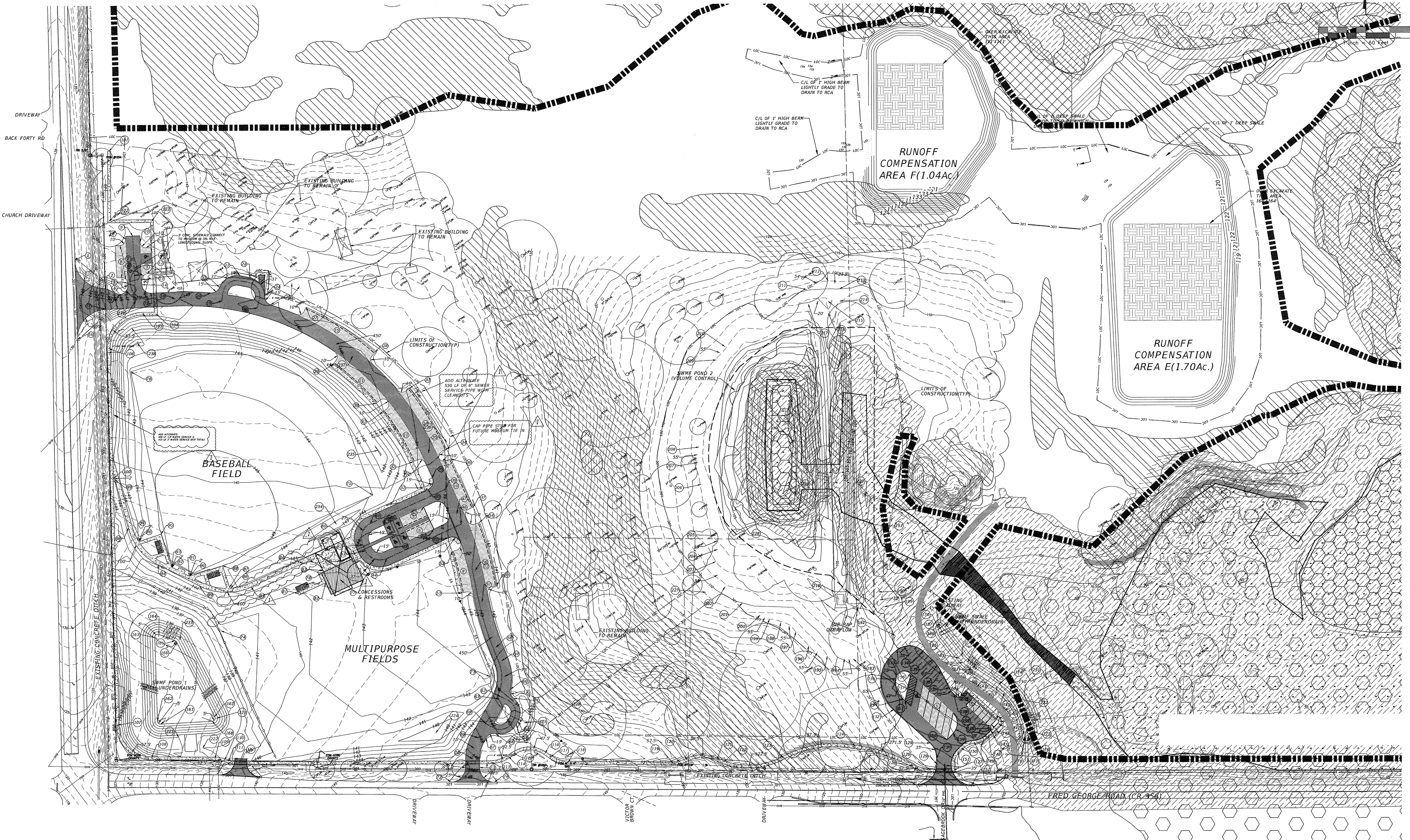
WETLAND AREA	15,451.00 S.F.
FLOODPLAIN AREA	94,528.80 S.F.
MAN-MADE WATERBODY	4,291.00 S.F.
UNALTERED SEVERE GRADES	703.93 S.F.
ALTERED SEVERE GRADES	28,146.63 S.F.
ALTERED SEVERE GRADES	1,346.90 S.F.
ALTERED WATERCOURSE - TLGCS SOURCE DATA	0.00 S.F.
ALTERED WATERCOURSE - SITE DELINEATED	0.00 S.F.
FILL WITHIN WETLAND	1672 C.Y.
CUT WITHIN WETLAND	362 C.Y.
OSW (DITCH ALONG FRED GEORGE ROAD)	1201 S.F.

**BUFFERS:**  
THERE IS -1000FT TO THE EAST AND -1500FT TO THE NORTH OF THE PROJECT THAT WILL HAVE NO ACTIVE PARK DEVELOPMENT LOCATED WITHIN THIS AREA. THE ONLY ITEMS LOCATED WITHIN THIS AREA WILL BE PHASE IIB & IIB ITEMS WHICH ARE PASSIVE TRAILS AND FLOODPLAIN RESTORATION EFFORTS. THESE AREAS WILL REMAIN NATURAL.

**LEGEND**

IMPACT AREA OUTLINE	FLOODPLAIN AREA	UNALTERED SIGNIFICANT GRADES	ALTERED SIGNIFICANT GRADES	ALTERED WATERCOURSE - TLGCS SOURCE DATA
WETLAND AREA	MAN-MADE WATERBODY	UNALTERED SEVERE GRADES	ALTERED SEVERE GRADES	ALTERED WATERCOURSE - SITE DELINEATED

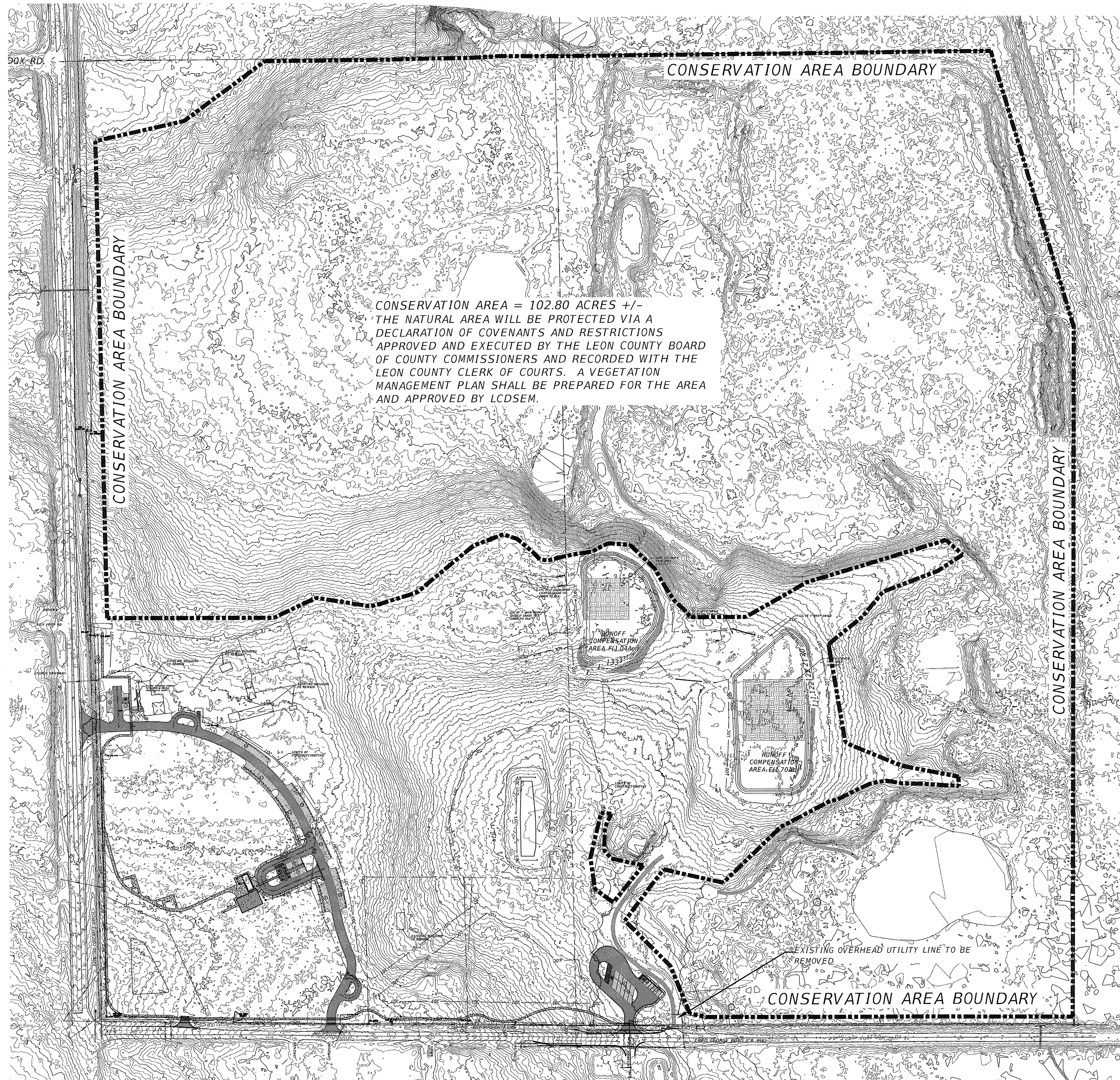
1" = 80'



<p><b>LEON COUNTY DEPARTMENT OF PUBLIC WORKS</b></p> <p>2280 MICCOSUKEE ROAD TALLAHASSEE, FL 32308 PHONE (850) 606-1500 FAX (850) 606-1501</p>	DESIGNED BY	EWG
	DRAWN BY	EWG
	CHECKED BY	BAK
	APPROVED BY	BAK
<p><b>NATURAL FEATURES MAP</b></p> <p><b>FRED GEORGE BASIN GREENWAY EMP SUBMITTAL</b></p> <p>LEON COUNTY, FLORIDA</p>	NO.	DATE
<p><b>DRMP</b></p> <p>ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS</p> <p>Certificate of Authorization No. 2648 1435 East Piedmont Drive, Suite 210 Tallahassee, Florida 32308 Phone: 850.562.9600 WWW.DRMP.COM</p>	DESCRIPTION	BY
<p>Bryant King, P.E. Florida Engineer # 51994</p>		
<p>PROJECT NO.: 10-0547.004</p>		
<p>SCALE: AS SHOWN</p>		
<p>DATE: 07/11/2014</p>		
<p>DRAWING: SP13</p>		

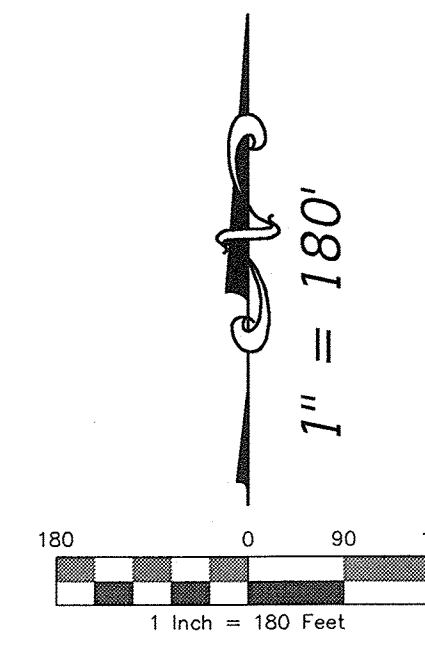


P:\Projects\Projects\10-0547\004\_Fred\_George\_Basin\_Greenway\CADD\Design\Natural\_Features - FGBC.dwg Plotted: Oct 03, 2014 - 1:51pm by hwhitfield



CONSERVATION AREA = 102.80 ACRES +/-  
 THE NATURAL AREA WILL BE PROTECTED VIA A DECLARATION OF COVENANTS AND RESTRICTIONS APPROVED AND EXECUTED BY THE LEON COUNTY BOARD OF COUNTY COMMISSIONERS AND RECORDED WITH THE LEON COUNTY CLERK OF COURTS. A VEGETATION MANAGEMENT PLAN SHALL BE PREPARED FOR THE AREA AND APPROVED BY LCDSEM.

IMPACT TABLE	
WETLAND AREA	15,451.00 S.F.
FLOODPLAIN AREA	94,528.80 S.F.
MAN-MADE WATERBODY	4,291.00 S.F.
UNALTERED SIGNIFICANT GRADES	703.93 S.F.
UNALTERED SEVERE GRADES	0.00 S.F.
ALTERED SIGNIFICANT GRADES	28,146.63 S.F.
ALTERED SEVERE GRADES	1,346.90 S.F.
ALTERED WATERCOURSE - TIGGIS SOURCE DATA	0.00 S.F.
ALTERED WATERCOURSE - SITE DELINEATED	0.00 S.F.
FILL WITHIN WETLAND	1672 C.Y.
CUT WITHIN WETLAND	362 C.Y.
OSW (DITCH ALONG FRED GEORGE ROAD)	1201 S.F.



**BUFFERS:**  
 THERE IS -1000FT TO THE EAST AND -1500FT TO THE NORTH OF THE PROJECT THAT WILL HAVE NO ACTIVE PARK DEVELOPMENT LOCATED WITHIN THIS AREA. THE ONLY ITEMS LOCATED WITHIN THIS AREA WILL BE PHASE IIB & IIC ITEMS WHICH ARE PASSIVE TRAILS AND FLOODPLAIN RESTORATION EFFORTS. THESE AREAS WILL REMAIN NATURAL.

**NATURAL AREA NOTES:**

1. THE NATURAL AREA WILL BE PROTECTED VIA A DECLARATION OF COVENANTS AND RESTRICTIONS APPROVED AND EXECUTED BY THE LEON COUNTY BOARD OF COUNTY COMMISSIONERS AND RECORDED WITH THE LEON COUNTY CLERK OF COURTS.
2. A VEGETATION MANAGEMENT PLAN SHALL BE PREPARED FOR THE AREA AND APPROVED BY LCDSEM.

ENVIRONMENTAL MANAGEMENT DEVELOPMENT STANDARDS SUMMARY TABLE		
SECTION		
10-4.344	LANDSCAPE AREA	
	TOTAL PROJECT AREA:	29.77 AC
	REQUIRED LANDSCAPE AREA (20% MINIMUM):	5.95 AC
	PROVIDED LANDSCAPE AREA:	8.74 AC
10-4.345	NATURAL AREA	
	TOTAL SITE AREA:	157.7 AC
	REQUIRED NATURAL AREA (25% MINIMUM):	39.43 AC
	PROVIDED NATURAL AREA:	102.80 AC
10-4.347	LANDSCAPE DESIGN STANDARDS FOR PERIMETER AND INTERIOR AREAS	
	VEHICULAR USE AREA:	82,494 SF
	REQUIRED ISLANDS (1@ 400 SF PER 5,000 SF OF VUA)	16 ISLANDS
	PROVIDED ISLANDS (MIN 400 SF @ 12')	16 ISLANDS
10-4.349	REFORESTATION	
	TOTAL SITE AREA:	29.77 AC
	REQUIRED TREES (40 TREE CREDITS PER ACRE):	1191 CR
	TREE CREDITS PRESERVED:	1176 CR
	TREE CREDITS PLANTED:	430 CR
	PROVIDED TREES:	1606 CR
	PROVIDED TREE CREDITS PER ACRE:	53.9 CR/AC

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

CONSERVATION AREA MAP  
**FRED GEORGE BASIN GREENWAY EMP SUBMITTAL**  
 LEON COUNTY, FLORIDA

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

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 Tallahassee, Florida 32306  
 Phone: 850.562.9600 WWW.DRMP.COM

Bryant King, P.E.  
 Florida Engineer # 51994  
 PROJECT NO:  
 10-0547.004  
 SCALE:  
 AS SHOWN  
 DATE:  
 07/11/2014  
 DRAWING:  
 SP13A

NO.	DATE	DESCRIPTION	BY



NO.	DATE	DESCRIPTION	BY

LEON COUNTY DEPARTMENT OF PUBLIC WORKS  
 2280 MICCOSUKEE ROAD  
 TALLAHASSEE, FL 32308  
 PHONE (850) 606-1500  
 FAX (850) 606-1501

ELECTRICAL  
**FRED GEORGE GREENWAY**  
 LEON COUNTY, FLORIDA  
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 Tallahassee, Florida 32308  
 Phone: 850.562.9600 WWW.DRMP.COM

*[Signature]*  
 10/14/14

PROJECT NO.: 10-0547.004  
 SCALE: AS NOTED  
 DATE: 09/14  
 DRAWING: ES-1

**LIGHTING CONTROL & CIRCUITING SUMMARY**

CONTROL CABINET	CONTACTOR	LIGHT POLE	AMPS	PANEL	CKT	ZONE	FIXTURE TYPE	FIXTURE		DISTANCE (FT)	WIRE SIZE (AWG)	VOLTAGE DROP %
								QUANTITY PER POLE	MOUNTING HEIGHT			
1	C1	A1	14.8	FL	1,3,5	1	1500W MZ	5	70FT	400	10	2.70
1	C2	A2	14.8	FL	7,9,11	1	1500W MZ	5	70FT	230	10	
1	C3	B1	25.9	FL	13,15,17	1	1500W MZ	10	80FT	530	6	2.60
1	C4	B2	25.9	FL	19,21,23	1	1500W MZ	10	80FT	60	10	
1	C5	C1	14.8	FL	25,27,29	1	1500W MZ	6	70FT	550	8	2.30
1	C6	C2	14.8	FL	31,33,35	1	1500W MZ	6	70FT	250	10	
1	C7	S1	18.5	FL	2,4,6	2	1500W MZ	7	70FT	250	10	2.20
1	C8	S2	18.5	FL	8,10,12	2	1500W MZ	7	70FT	130	10	
1	C9	S3	18.5	FL	14,16,18	2	1500W MZ	7	70FT	600	6	2.00
1	C10	S4	18.5	FL	20,22,24	2	1500W MZ	7	70FT	630	6	2.00
1	C11	A2	0.51	FL2	1,3,5	3	24W LED	1	30FT	230	10	
2	C12	B2	0.51	FL2	7,9,11	3	24W LED	1	30FT	60	10	
2	C13	S1	0.51	FL2	2,4,6	3	24W LED	1	30FT	250	10	
2	C14	S2	0.51	FL2	8,10,12	3	24W LED	1	30FT	130	10	
2	C15	C2	5.8	FL2	13,15,17	4	1000W MZ	2	70FT	250	10	
2	C16	S2	5.8	FL2	14,16,18	4	1000W MZ	2	70FT	130	10	

NOTE: BASIS OF DESIGN FOR SITE LIGHTING IS MUSCO GREEN GENERATION LIGHTING SYSTEM. USE OF ALTERNATE MANUFACTURERS MAY REQUIRE ADDITIONAL FIXTURES AND/OR SUPPORT STRUCTURES. IF THIS IS THE CASE, CONTRACTOR SHALL BEAR ALL COSTS FOR REDESIGN OF POWER DISTRIBUTION SYSTEM, AND SHALL INCLUDE ALL SUCH COSTS IN HIS BID.

**CONDUIT/CONDUCTORS:**

- A** PROVIDE NEW PRIMARY CONDUIT (2 SETS 4" RNC, WITH RGSC ELBOWS), PER TALQUIN ELECTRIC COOP. REQUIREMENTS. INSTALL WITHIN UTILITY EASEMENT.
- B** NEW SERVICE: 3" C.-4 350KCM.
- C** 1" C.-3 #10, #10 GND.
- D** 1" C.-3 #8, #10 GND.
- E** 1-1/2" C.-3 #6, #8 GND.
- F** 1" C.-2 #8, #8 GND.
- G** 1" C.-2 #6, #8 GND.
- H** 1" C.-(SPARE) (SCOREBOARD CONTROLS). PROVIDE NEW IN-GROUND PULLBOXES (12" X 12" X 12"D), NOT SHOWN, AT INTERVALS NOT EXCEEDING 190FT.
- I** 2 SETS: 1" C.-3 #10, #10 GND.  
 1" C.-3 #8, #10 GND.  
 2 SETS: 1-1/2" C.-3 #6, #10 GND.  
 1" C.-2 #8, #8 GND.  
 1" C.-2 #6, #8 GND.

**WORK NOTES:**  
(THIS SHEET ONLY)

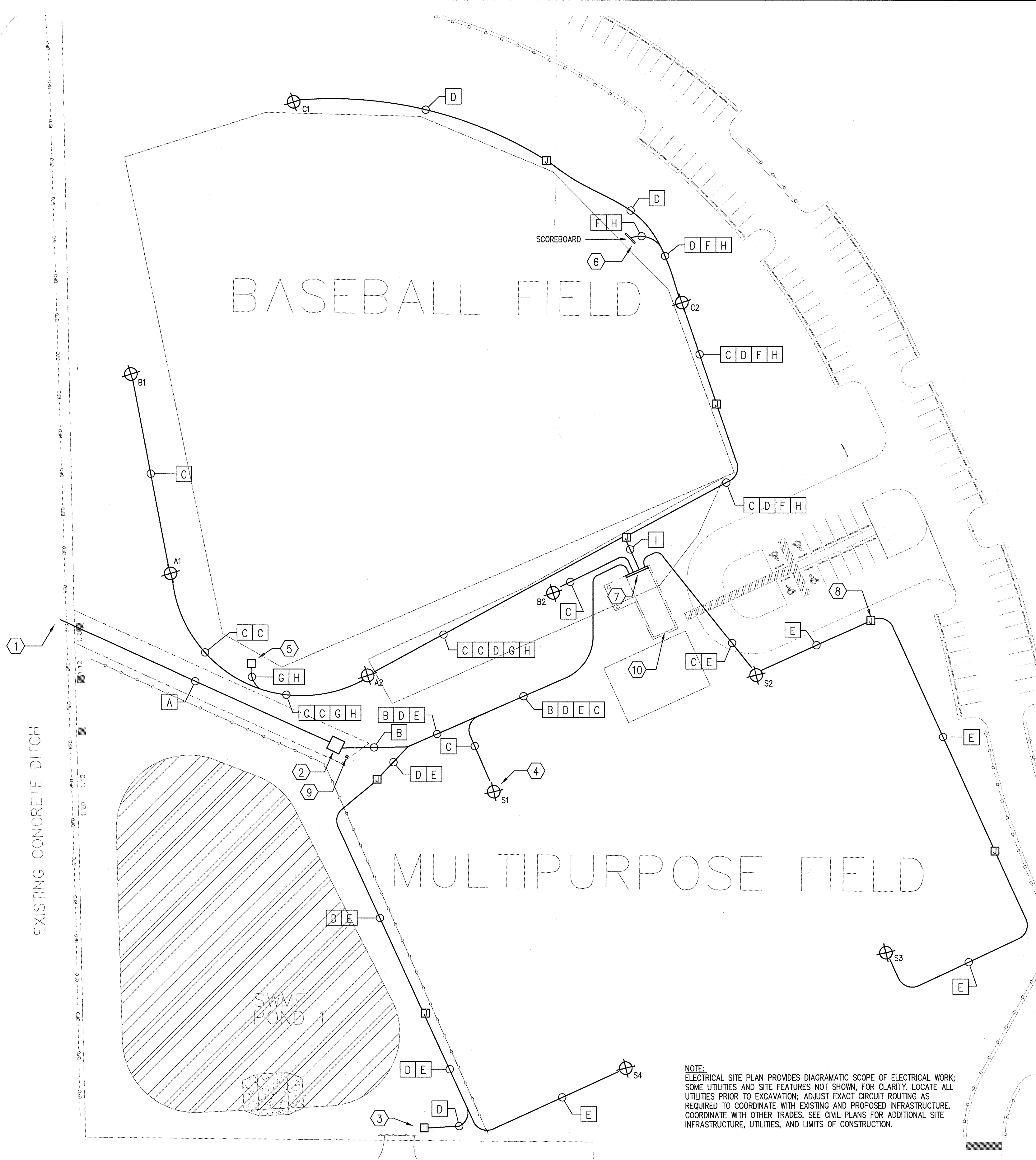
- ① EXISTING PRIMARY POLE. PROVIDE NEW UNDERGROUND PRIMARY CONDUIT TO NEW TRANSFORMER, PER TALQUIN REQUIREMENTS.
- ② NEW PAD-MOUNT UTILITY TRANSFORMER (277/480V SECONDARY). PROVIDE PAD PER UTILITY REQUIREMENTS.
- ③ NEW IRRIGATION BOOSTER PUMP. PROVIDE NEW COMBINATION-TYPE ENCLOSED FVNR MOTOR STARTER, WITH FUSED DISCONNECT SWITCH. FIELD COORDINATE EXACT LOCATION WITH IRRIGATION CONTRACTOR.
- ④ NEW POLE WITH SITE LIGHTING; SEE SCHEDULES AND DETAILS. TYPICAL. PROVIDE A NEW 12" X 12" X 12"D IN-GROUND J-BOX (NOT SHOWN) WITHIN 10FT OF THE POLE.
- ⑤ PROVIDE NEW 20A/120V WEATHERPROOF DUPLEX GFCI RECEPTACLE, AND 12" X 8" X 6"D HINGED-COVER NEMA-3R BOX, WITH CONNECTIONS FOR SCOREBOARD EQUIPMENT CONTROLS. FIELD VERIFY EXACT LOCATION (BEHIND BACKSTOP).
- ⑥ SCOREBOARD: PROVIDE CONNECTIONS FOR POWER AND CONTROLS. FIELD VERIFY EXACT LOCATION.
- ⑦ NEW SERVICE EQUIPMENT, SEE RISER/ELEVATION. MOUNT TO WALL OF NEW CONCESSION STAND.
- ⑧ NEW 12" X 18" X 12"D IN-GROUND JUNCTION BOX, WITH BOLT-DOWN COVER. (TYPICAL)
- ⑨ NEW UTILITY METER, MOUNTED ON 4" X 4" CONCRETE POST, FACE OF METER TO BE 48" ABOVE FINISHED GRADE. PROVIDE 1" C. (PER UTILITY REQUIREMENTS) TO TRANSFORMER SECONDARY.
- ⑩ NEW CONCESSION STAND - SEE BUILDING ELECTRICAL PLANS.

**LEGEND**

- J** NEW COMPOSITE IN-GROUND JUNCTION BOX, WITH BOLT-DOWN COVER; 12" X 12" X 12"D; BOX/COVER SHALL BE RATED ANSI TIER 15.
- ⊕** NEW LIGHTING POLE AND LIGHTING ASSEMBLY. ALL POLES SHALL BE 70FT MOUNTING HEIGHT, EXCEPT B1/B2 SHALL BE 80FT MOUNTING HEIGHT.

**CODES AND STANDARDS**

NFPA 70 NATIONAL ELECTRICAL CODE (NEC), 2008 ED.  
 FLORIDA BUILDING CODE, 2010 EDITION.

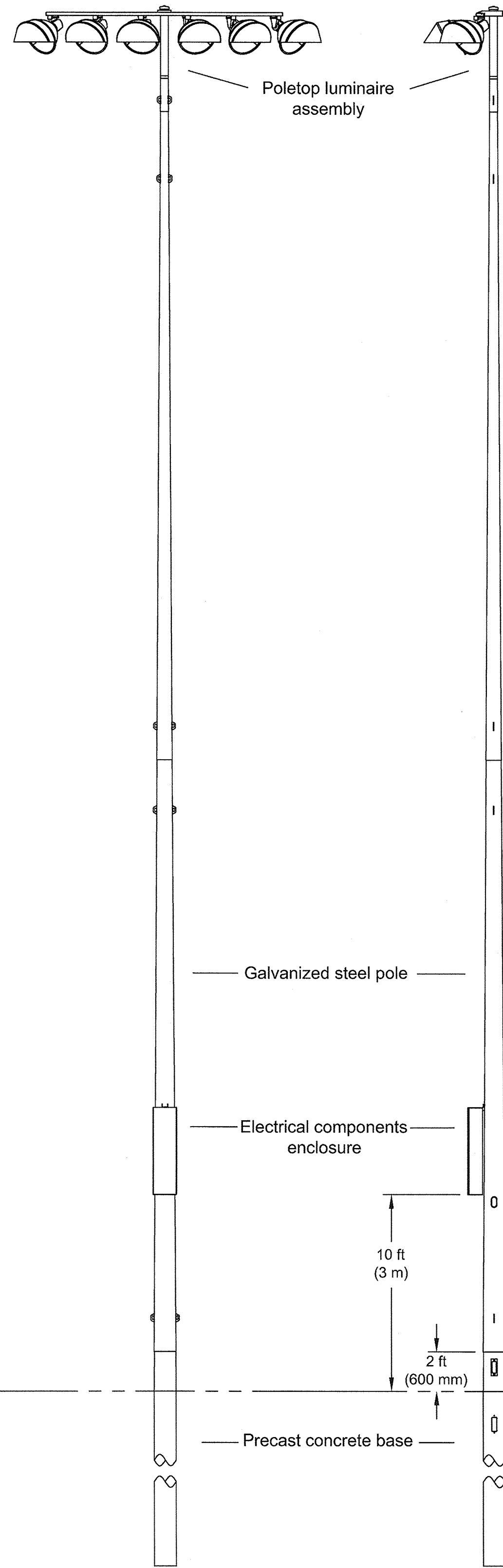


NOTE: ELECTRICAL SITE PLAN PROVIDES DIAGRAMATIC SCOPE OF ELECTRICAL WORK; SOME UTILITIES AND SITE FEATURES NOT SHOWN. FOR CLARITY, LOCATE ALL UTILITIES PRIOR TO EXCAVATION; ADJUST EXACT CIRCUIT ROUTING AS REQUIRED TO COORDINATE WITH EXISTING AND PROPOSED INFRASTRUCTURE. COORDINATE WITH OTHER TRADES. SEE CIVIL PLANS FOR ADDITIONAL SITE INFRASTRUCTURE, UTILITIES, AND LIMITS OF CONSTRUCTION.

**SITE PLAN - ELECTRICAL**  
 SCALE: 1" = 40' - 0"

APPLIED RESEARCH AND DESIGN, INC.  
 3998 BRADFORDVILLE ROAD, STE. B  
 TALLAHASSEE, FL, 32309  
 (850) 668-6324 -- FAX (850) 668-6358  
 FL CA#8948  
 JAMES M. LAMB, PE#52688





**SITE LIGHTING ELEVATIONS**

N.T.S.

**PANEL: FL**

MAN: 300A/3P M.C.B. (SERVICE-ENTRANCE RATED) NOTE: PROVIDE UL-1449 LISTED TYPE 2 SURGE PROTECTIVE DEVICE AT PANEL. ALL 30A BREAKERS SHALL BE HID-RATED.

SERVICE: 277/480V, 3-PHASE, 4-WIRE  
 LOCATION: SEE PLAN  
 RATING: 14,000 AIC  
 TYPE: NEMA-3R, SURFACE

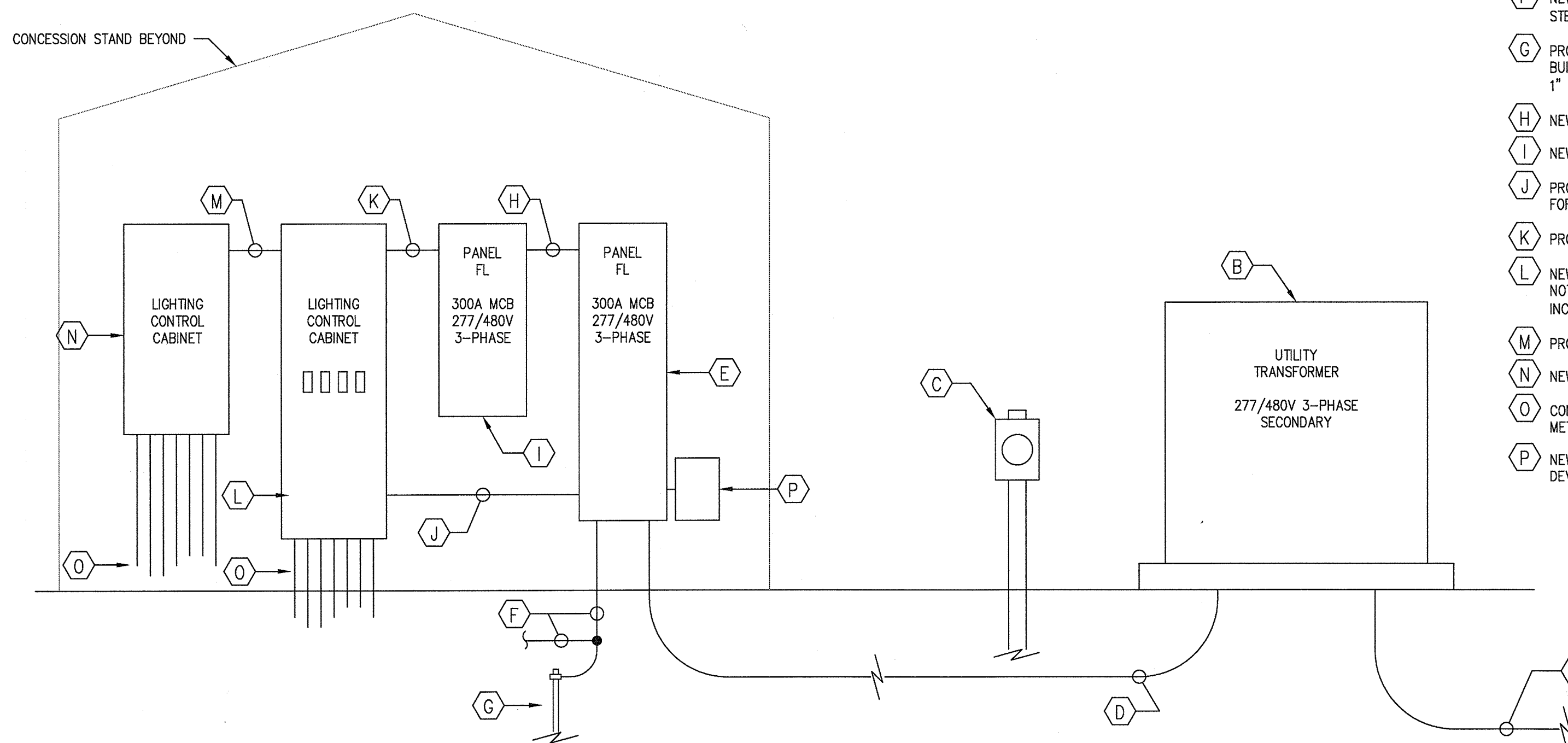
CKT	DESCRIPTION	BKR	P	KVA			LOAD	BKR	P	DESCRIPTION	CKT
				A	B	C					
1	LTS-POLE A1	30	3	4.10	9.22		5.12	30	3	LTS-POLE S1	2
3				4.10		9.22	5.12				4
5				4.10			5.12				6
7	LTS-POLE A2	30	3	4.10	9.22		5.12	30	3	LTS-POLE S2	8
9				4.10		9.22	5.12				10
11				4.10			5.12				12
13	LTS-POLE B1	30	3	7.20	12.32		5.12	30	3	LTS-POLE S3	14
15				7.20		12.32	5.12				16
17				7.20			5.12				18
19	LTS-POLE B2	30	3	7.20	12.32		5.12	30	3	LTS-POLE S4	20
21				7.20		12.32	5.12				22
23				7.20			5.12				24
25	LTS-POLE C1	30	3	4.10	4.10					SPACE	26
27				4.10		11.60	7.50	60	2	CONCESSION PANEL	28
29				4.10			11.60	7.50			30
31	LTS-POLE C2	30	3	4.10	7.88		3.78	100	3	PANEL FL2	32
33				4.10		7.88	3.78				34
35				4.10			3.78				36
37	IRRIGATION PUMP (10HP)	30	3	3.90	3.90			30		SURGE PROTECTIVE DVC	38
39				3.90		3.90					40
41				3.90			3.90				42
TOTAL CONNECTED LOAD (KVA):				58.96	66.46	66.46					
				191.88	KVA	230.9	AMPS				

**PANEL: FL2**

MAN: 100A MLO  
 SERVICE: 120/208V, 3-PHASE, 4-WIRE  
 LOCATION: SEE PLAN  
 RATING: 14,000 AIC  
 TYPE: NEMA-3R, SURFACE

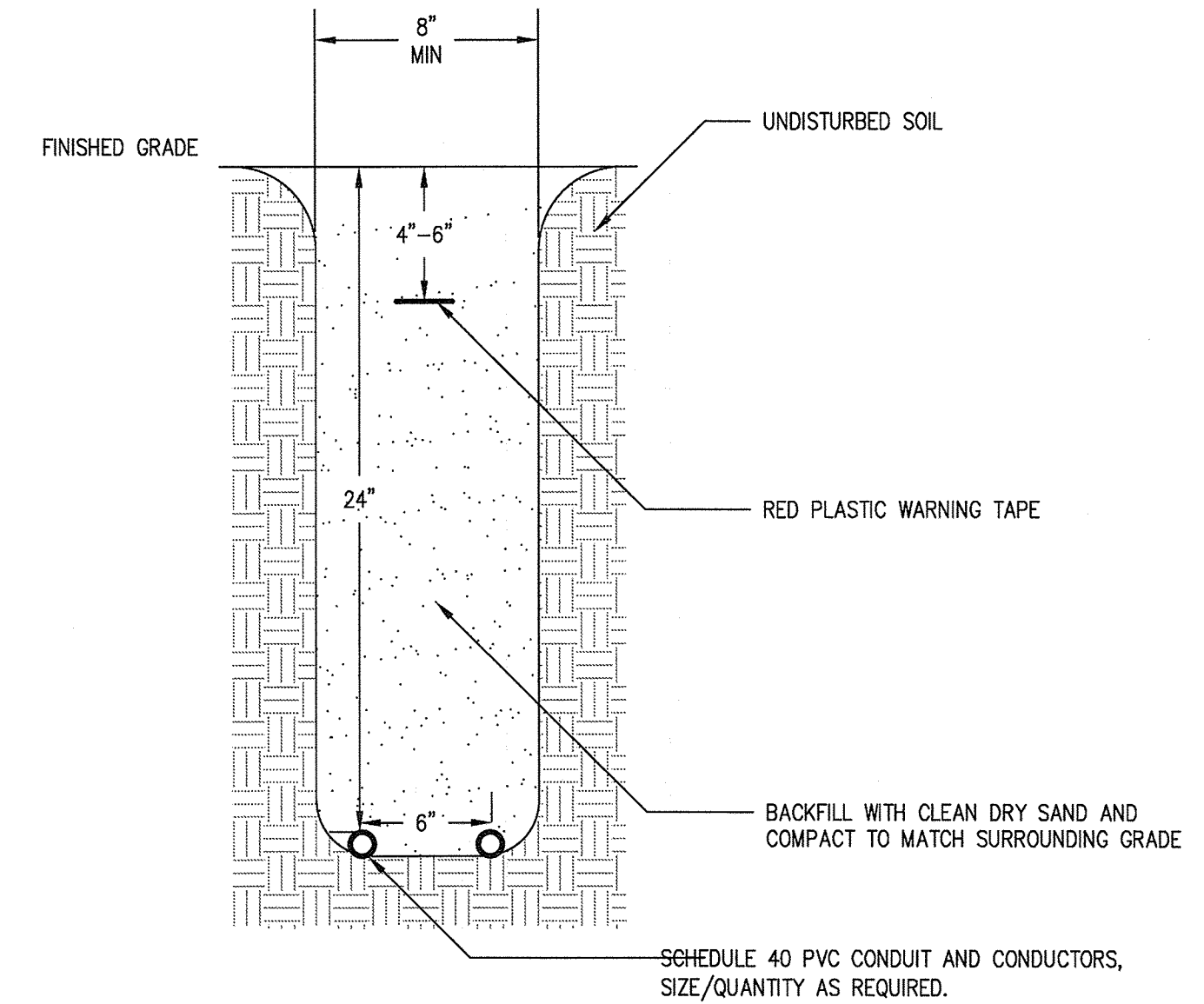
ALL 30A ALL 30A BREAKERS SHALL BE HID-RATED.

CKT	DESCRIPTION	BKR	P	KVA			LOAD	BKR	P	DESCRIPTION	CKT
				A	B	C					
1	LTS-POLE A2	30	3	0.14	0.28		0.14			LTS-POLE S1	2
3				0.14		0.28	0.14				4
5				0.14			0.14				6
7	LTS-POLE B2	30	3	0.14	0.28		0.14			LTS-POLE S2	8
9				0.14		0.28	0.14				10
11				0.14			0.14				12
13	LTS-POLE C2	30	3	1.61	3.22		1.61			LTS-POLE S2	14
15				1.61		3.22	1.61				16
17				1.61			3.22	1.61			18
19	SPACE				0.00					SPACE	20
21	SPACE					0.00				SPACE	22
23	SPACE						0.00			SPACE	24
25	SPACE				0.00					SPACE	26
27	SPACE					0.00				SPACE	28
29	SPACE						0.00			SPACE	30
TOTAL CONNECTED LOAD (KVA):				3.78	3.78	3.78					
				11.35	KVA	31.5	AMPS				



**SITE ELECTRICAL EQUIPMENT - RISER / ELEVATION**

N.T.S.



**TRENCH DETAIL**

N.T.S.

**RISER NOTES:**  
(THIS SHEET ONLY)

- (A) PROVIDE (2) NEW 4" PRIMARY CONDUITS, WITH 48" MINIMUM COVER, TO RISER POLE AT RIGHT-OF-WAY. FIELD COORDINATE EXACT POINT OF TERMINATION WITH UTILITY (TALQUIN ELECTRIC).
- (B) NEW UTILITY TRANSFORMER. PROVIDE NEW PAD PER UTILITY REQUIREMENTS.
- (C) NEW UTILITY METER. PROVIDE NEW 4" X 4" PRECAST CONCRETE POST TO MOUNT METER. PROVIDE 1" CONDUIT (NOT SHOWN) TO TRANSFORMER SECONDARY, PER UTILITY REQUIREMENTS, FOR METERING.
- (D) NEW SERVICE: PROVIDE NEW 3" C.-4 350KCM, WITH 24" MINIMUM COVER.
- (E) NEW PANEL FL - SEE PANEL SCHEDULE.
- (F) NEW SERVICE GROUND, PER NEC 250.50: PROVIDE #1/0 COPPER GROUND TO FOOTER STEEL AND COLD WATER PIPING. INSTALL EXPOSED GROUND IN 1" C.
- (G) PROVIDE (3) NEW GROUND RODS, SPACED 10FT APART; BOND TOGETHER AND TO BUILDING GROUNDING ELECTRODE WITH #4 COPPER GROUND. INSTALL EXPOSED GROUND IN 1" C.
- (H) NEW 1-1/2" C.-4 #1, #6 GND.
- (I) NEW PANEL FL2 - SEE PANEL SCHEDULE.
- (J) PROVIDE CONDUIT FOR LIGHTING LOADS; SIZE/QUANTITY AS REQUIRED. PROVIDE 3/4" C. FOR SURGE PROTECTIVE DEVICE MONITORING.
- (K) PROVIDE CONDUIT FOR LIGHTING LOADS; SIZE/QUANTITY AS REQUIRED.
- (L) NEW LIGHTING CONTROL AND MONITORING CABINET. PROVIDE 3/4" C.-2 #12, #12 GND, NOT SHOWN, TO CONCESSION STAND PANEL, FOR CONTROL POWER. CABINET SHALL INCLUDE (4) KEY-OPERATED SWITCHES, FOR MANUAL CONTROL OF LIGHTING ZONES.
- (M) PROVIDE POWER/CONTROL CONDUIT/CONDUCTORS, AS REQUIRED.
- (N) NEW LIGHTING CONTROL CABINET.
- (O) CONDUIT/CONDUCTORS TO SITE LIGHTING. NOTE: ALL RACEWAYS ABOVE GRADE SHALL BE METALLIC.
- (P) NEW SURGE PROTECTIVE DEVICE: PROVIDE UL-1449 LISTED TYPE 2 SURGE PROTECTIVE DEVICE, WITH NEMA-3R ENCLOSURE, AT PANEL.

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DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

ELECTRICAL  
**FRED GEORGE GREENWAY**

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NO.	DATE	DESCRIPTION	BY

DESIGNED BY: TAW  
 DRAWN BY: TAW  
 CHECKED BY: JML  
 APPROVED BY: TML

PROJECT NO.: 10-0547.004  
 SCALE: AS NOTED  
 DATE: 09/14  
 DRAWING: ES-2