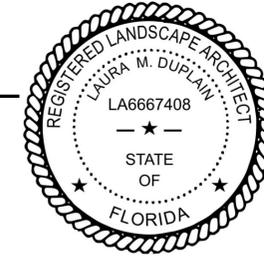


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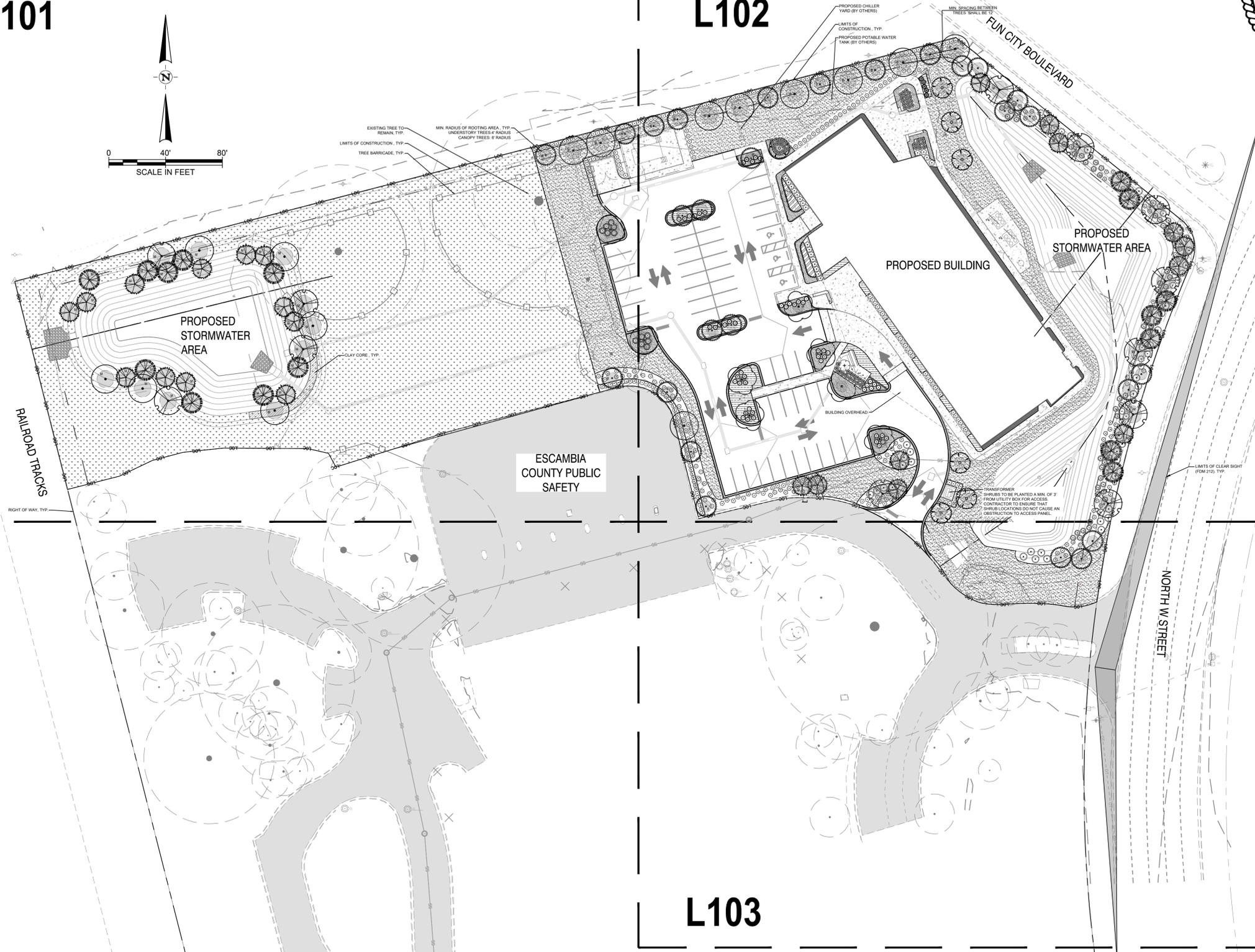
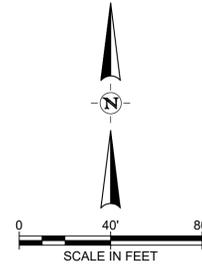
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HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD, SUITE 200
TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408

L101

L102

L103



LEGEND

SYMBOL	CODE	COMMON NAME
TREES		
	ACE RUB	FLORIDA FLAME RED MAPLE
	ILE CAS	DAHOON HOLLY
	LAG IND	MUSKOGEE CRAPE MYRTLE
	MAG GRA	SOUTHERN MAGNOLIA
	PIN ELL	SLASH PINE
	QUE SHU	SHUMARD OAK
	TAX DIS	BALD CYPRESS
SHRUBS		
	CAM SAS	SASANQUA CAMELLIA
	CAM SA2	OCTOBER MAGIC CAMELLIA
	HAM FIR	FIREBUSH
	MUH CAP	PINK MUHLY GRASS
	RHO LIL	LILAC AZALEA
	SER REP	SILVER SAW PALMETTO
	TRI DAC	FAKAHATCHEE GRASS
	TRI FLO	DWARF FAKAHATCHEE GRASS
	VIB OBO	WALTER'S VIBURNUM
	ZAM PUM	COONTIE
GROUND COVERS		
	ARC GLA	PERENNIAL PEANUT
	HEM LIL	YELLOW DAYLILY
	LIR MUS	LIRIOPE
	TRA JAS	VARIEGATED CONFEDERATE JASMINE
SOD/SEED		
	SY SOD	CENTIPEDE SOD
	SY SEED	CENTIPEDE SEED
SYMBOL		
B		REQUIRED PLANTING
M		BUFFER REQUIREMENT
P		MITIGATION REQUIREMENT
		PARKING REQUIREMENT

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No.	Date	Issue / Revision



LAURA M. DUPLAIN, PLA
PLA NO. 6667408

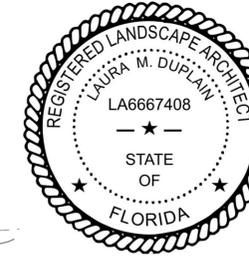
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2255 KILLEARN CENTER BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32309
FL LC 26000645

FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

OVERALL LANDSCAPE PLAN

DWG NO.	L100
SHEET NO.	

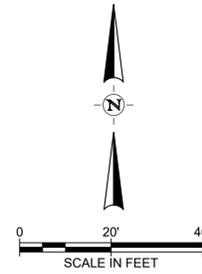
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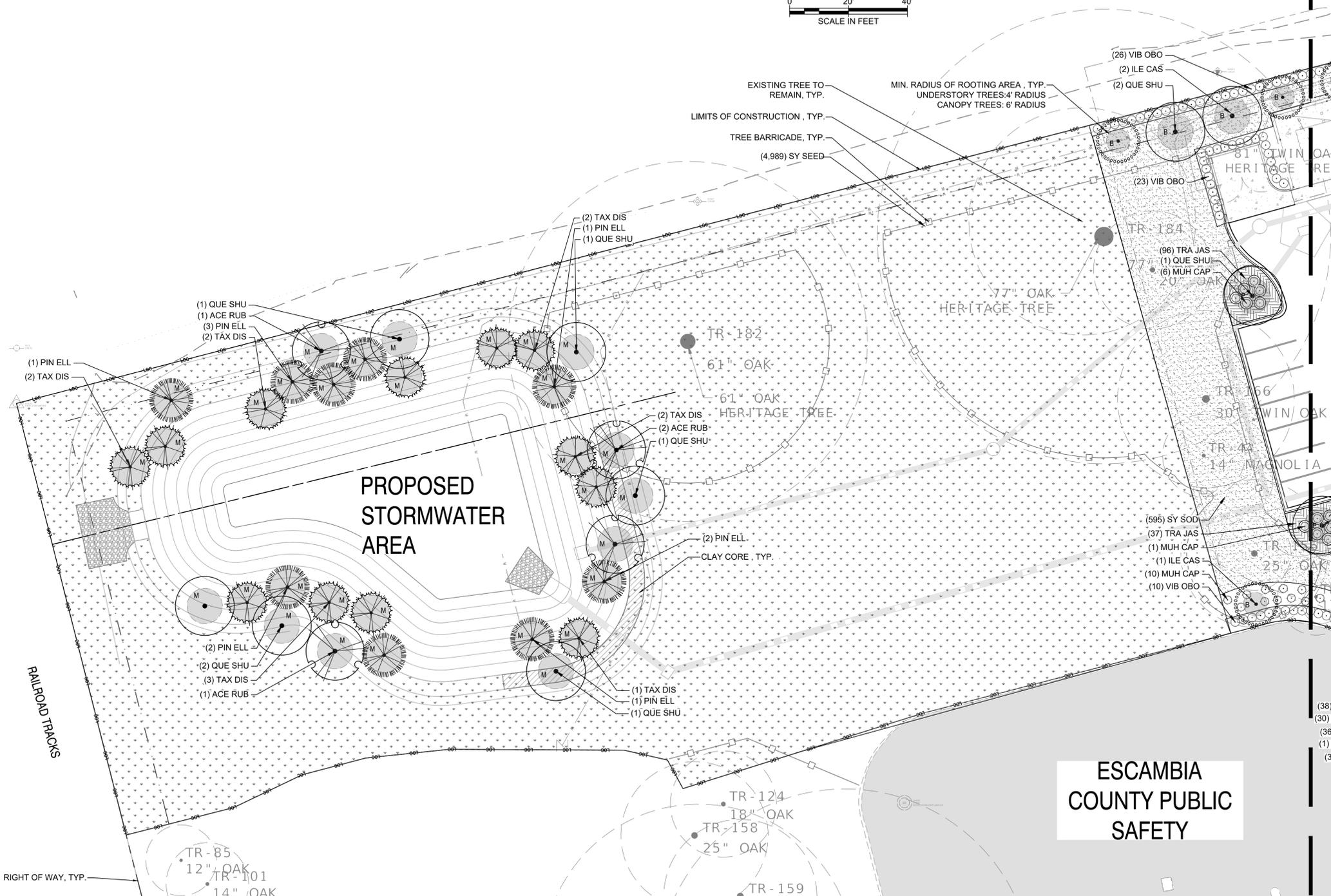
HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD, SUITE 200
TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408



LEGEND

SYMBOL	CODE	COMMON NAME
TREES		
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	LAG IND	MUSKOGEE CRAPE MYRTLE
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	LIR MUS	LIRIOPE
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SOD/SEED		
	SY SOD	CENTIPECTE SOD
	SY SEED	CENTIPECTE SEED
SYMBOL		
B		REQUIRED PLANTING
M		MITIGATION REQUIREMENT
P		PARKING REQUIREMENT

MATCHLINE - REFER TO SHEET L102



ESCAMBIA COUNTY PUBLIC SAFETY

No.	Date	Issue / Revision	<p>2255 KILLEARN CENTER BLVD. SUITE 200 TALLAHASSEE, FLORIDA 32309 TEL. (850) 224-4400</p>	<p>LAURA M. DUPLAIN, PLA PLA NO. 6667408</p> <p>HALFF ASSOCIATES, INC. 2255 KILLEARN CENTER BLVD., SUITE 200 TALLAHASSEE, FLORIDA 32309 FL LC 26000645</p>	FLORIDA-ALABAMA TPO			<p>DWG NO. L101 SHEET NO.</p>
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			NORTH W STREET	ESCAMBIA	451524-1-38-01			

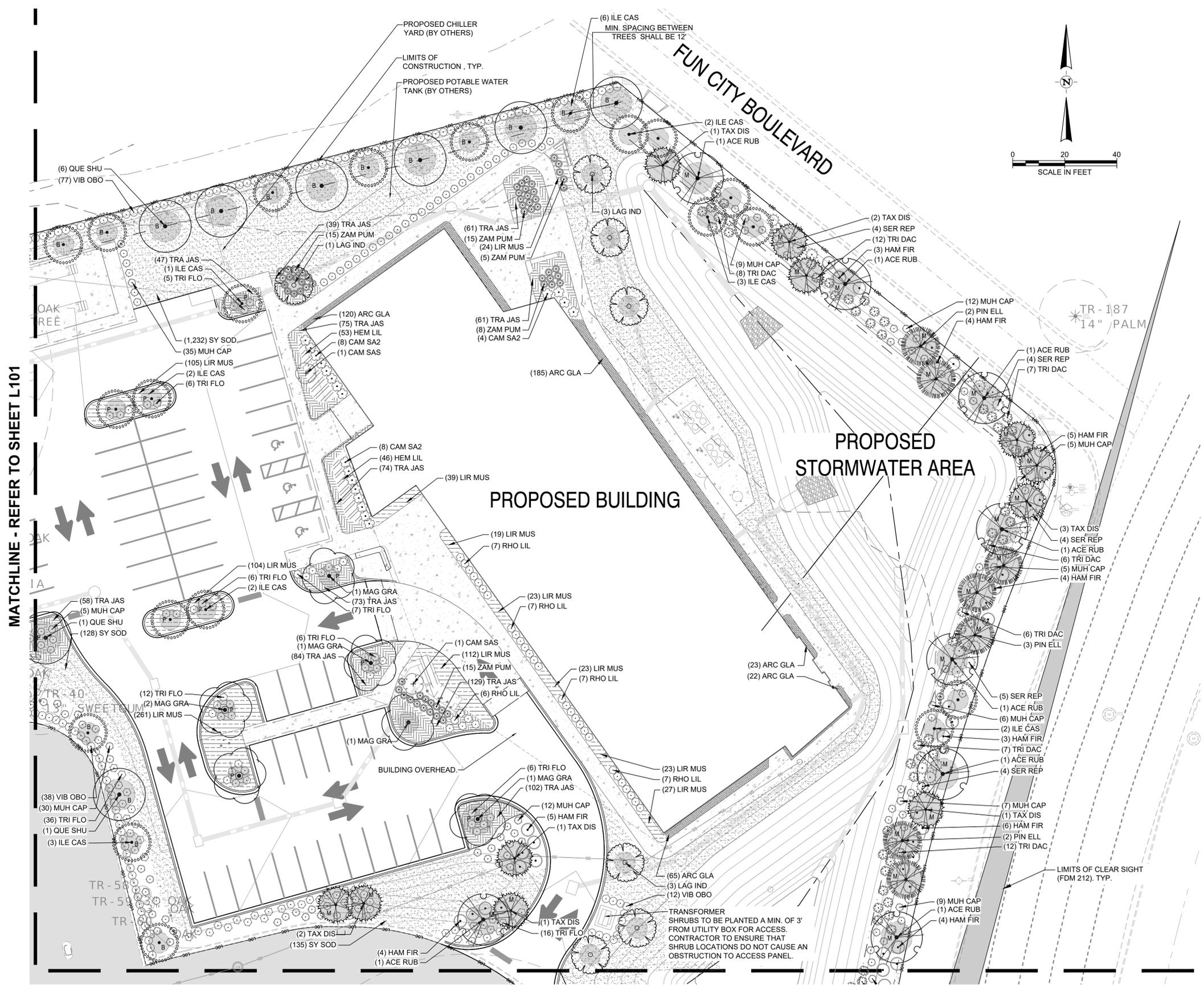
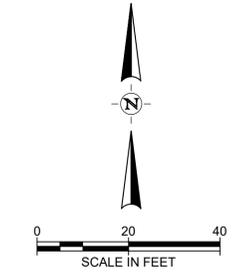
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HALFF ASSOCIATES, INC.
 2255 KILLEARN CENTER BLVD, SUITE 200
 TALLAHASSEE, FL 32309
 LAURA M. DUPLAIN, PLA NO. 6667408



SYMBOL	CODE	COMMON NAME
TREES		
	ACE RUB	FLORIDA FLAME RED MAPLE
	ILE CAS	DAHOON HOLLY
	LAG IND	MUSKOGEE CRAPE MYRTLE
	MAG GRA	SOUTHERN MAGNOLIA
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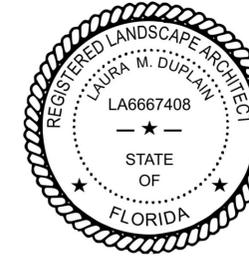
MATCHLINE - REFER TO SHEET L101

MATCHLINE - REFER TO SHEET L103

No.	Date	Issue / Revision	<p>2255 KILLEARN CENTER BLVD. SUITE 200 TALLAHASSEE, FLORIDA 32309 TEL. (850) 224-4400</p>	LAURA M. DUPLAIN, PLA PLA NO. 6667408 HALFF ASSOCIATES, INC. 2255 KILLEARN CENTER BLVD., SUITE 200 TALLAHASSEE, FLORIDA 32309 FL LC 26000645	FLORIDA-ALABAMA TPO			DWG NO.
					ROAD NO. NORTH W STREET COUNTY ESCAMBIA FINANCIAL PROJECT ID 451524-1-38-01	LANDSCAPE PLAN	L102	
								SHEET NO.

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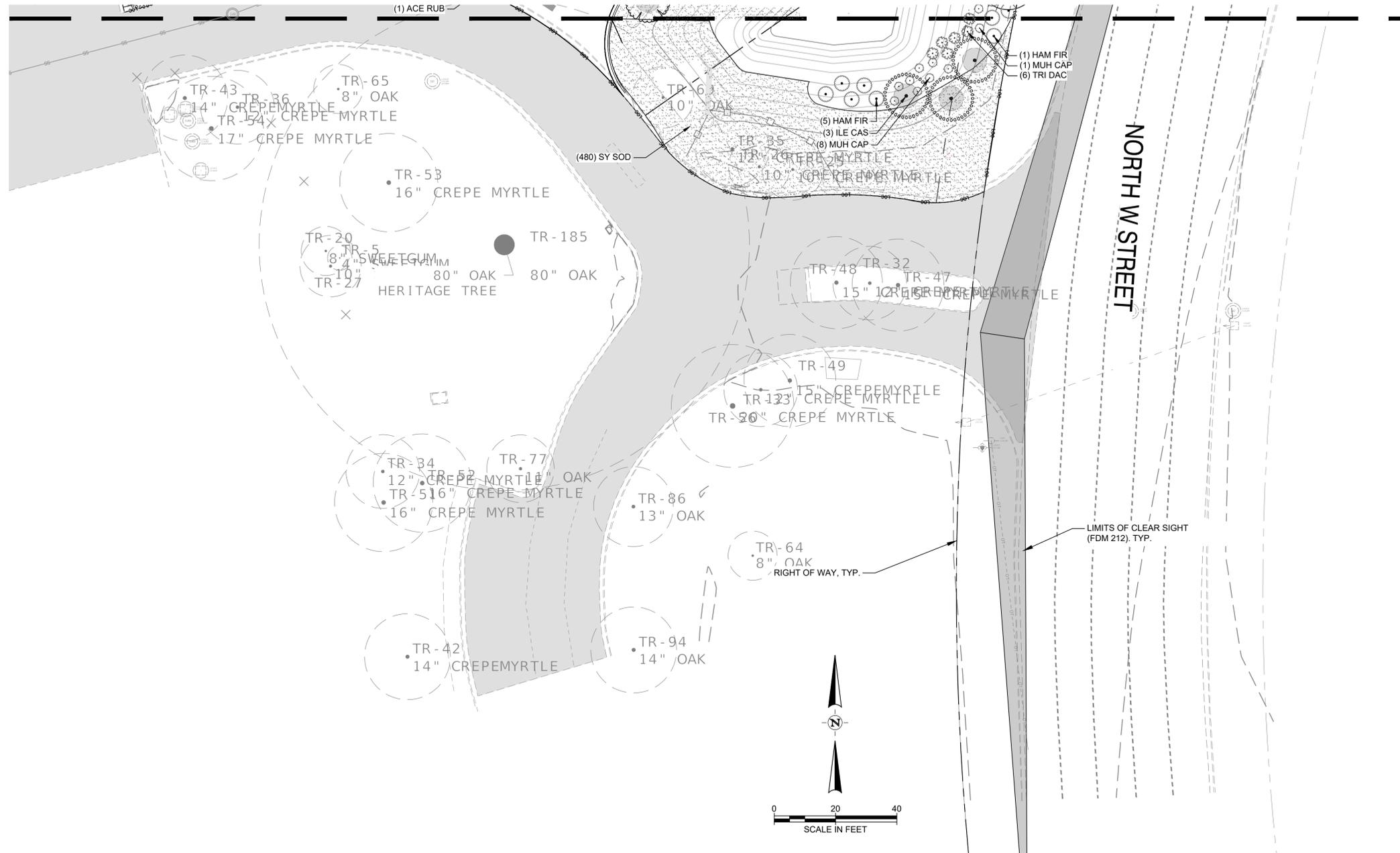


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2255 KILLEARN CENTER BLVD, SUITE 200
TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408

MATCHLINE - REFER TO SHEET L102



LEGEND

SYMBOL	CODE	COMMON NAME
TREES		
	ACE RUB	FLORIDA FLAME RED MAPLE
	ILE CAS	DAHOON HOLLY
	LAG IND	MUSKOGEE CRAPE MYRTLE
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SYMBOL		
B	BUFFER REQUIREMENT	
M	MITIGATION REQUIREMENT	
P	PARKING REQUIREMENT	

No.	Date	Issue / Revision



LAURA M. DUPLAIN, PLA
PLA NO. 6667408

HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32309
FL LC 26000645

FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

LANDSCAPE PLAN

DWG NO.	L103
SHEET NO.	

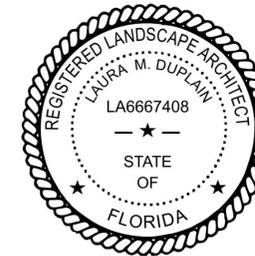
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POND AREA NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF WASHOUTS AND EROSION IN SODDED AREAS FOR A PERIOD OF FOUR MONTHS FROM "PROJECT ACCEPTANCE" BY OWNER'S REPRESENTATIVE.
2. ALL SOD SHALL BE TIFFWAY 419 BERMUDA, UNLESS OTHERWISE NOTED.
3. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION DOS UNTIL ESTABLISHMENT (MINIMUM 30 DAYS).
4. REFER TO ADDITIONAL NOTES AND DETAILS APPLICABLE TO DOS WITHIN THE LANDSCAPE PLANS.
5. ALL DISTURBED AREAS SHALL BE SODDED OR SEED AND MULCHED. THIS INCLUDE AREAS THAT WERE DISTURBED IN ADDITION TO THOSE SHOWN AND/OR ANTICIPATED IN THESE PLANS.
6. AT THE END OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SILT AND SEDIMENTATION THAT HAS ACCUMULATED WITHIN THE PONDS.

SEED AND MULCH:

1. PERMANENT SEEDING SHALL BE APPLIED BY HYDROSEEDING IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 570 PERFORMANCE TURF. SEED: BAHIA - SHALL BE IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATION 981 TURF MATERIAL. APPLY SEED AT THE RATE OF 10 POUNDS PER 1,000 SF.
2. APPLY HYDROSEED TO ENSURE UNIFORM COVERAGE.

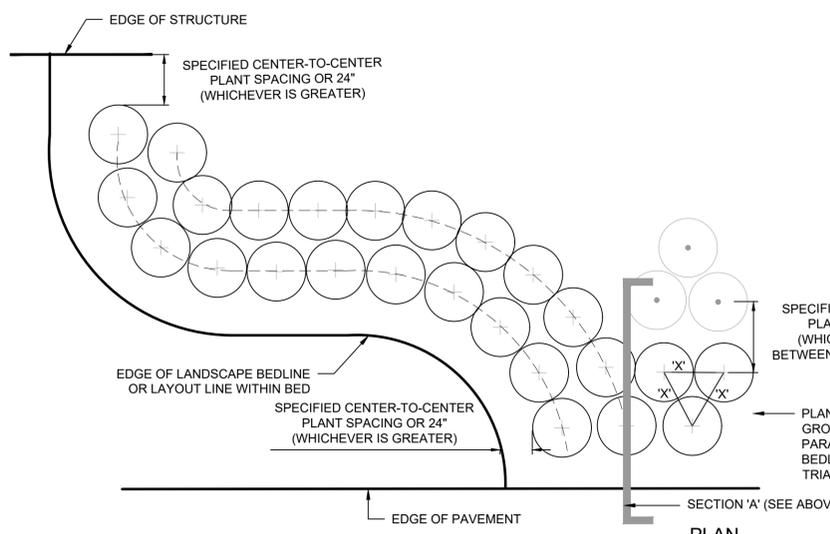
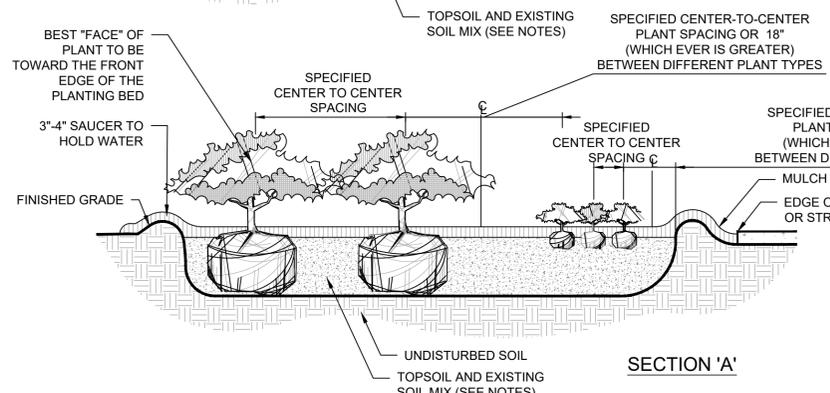
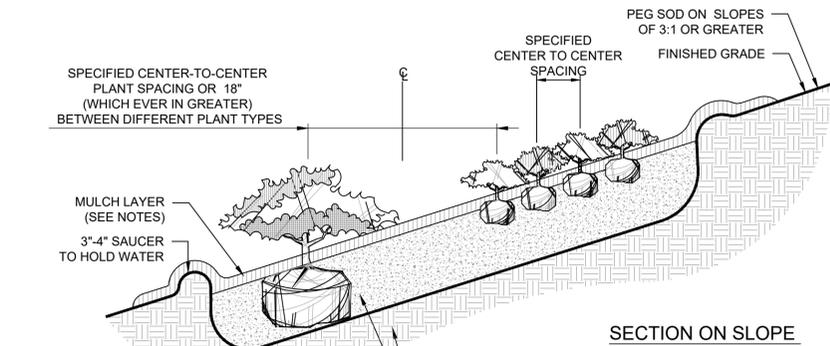


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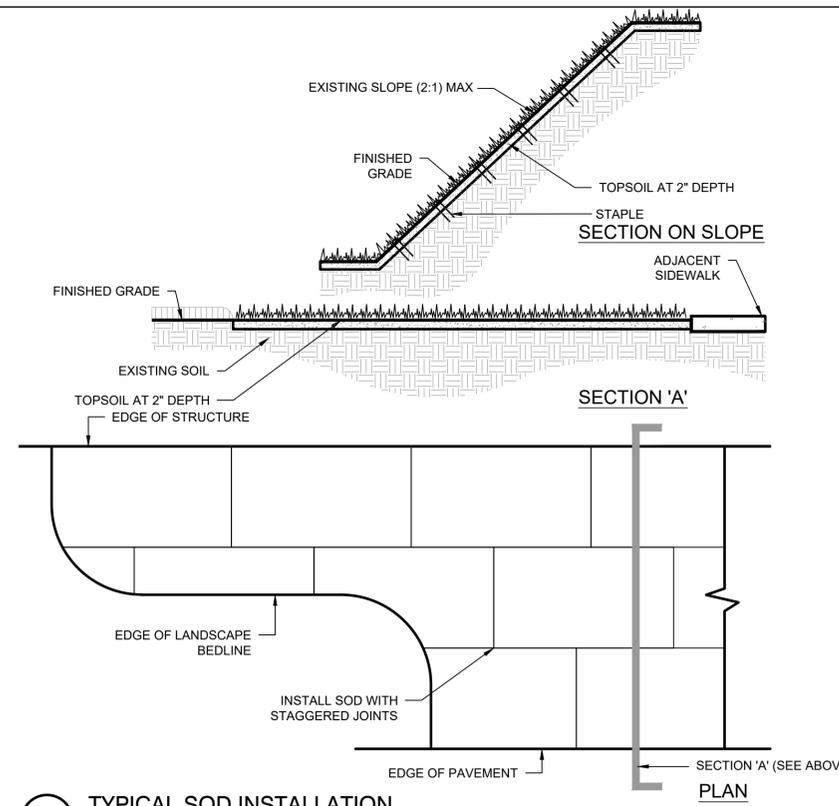
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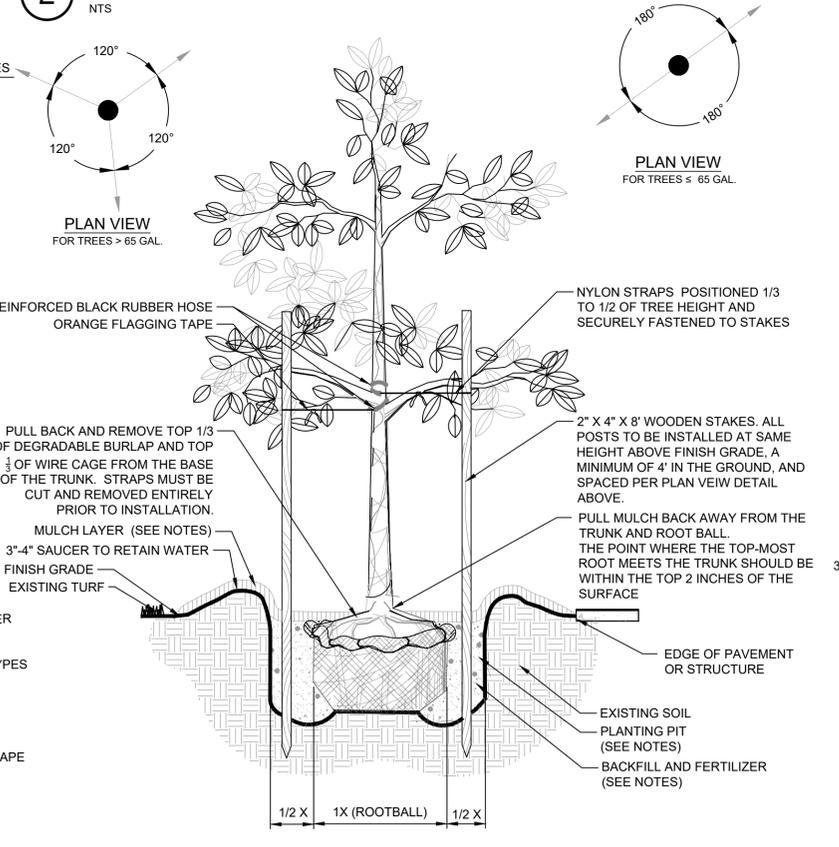
HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD, SUITE 200
TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408



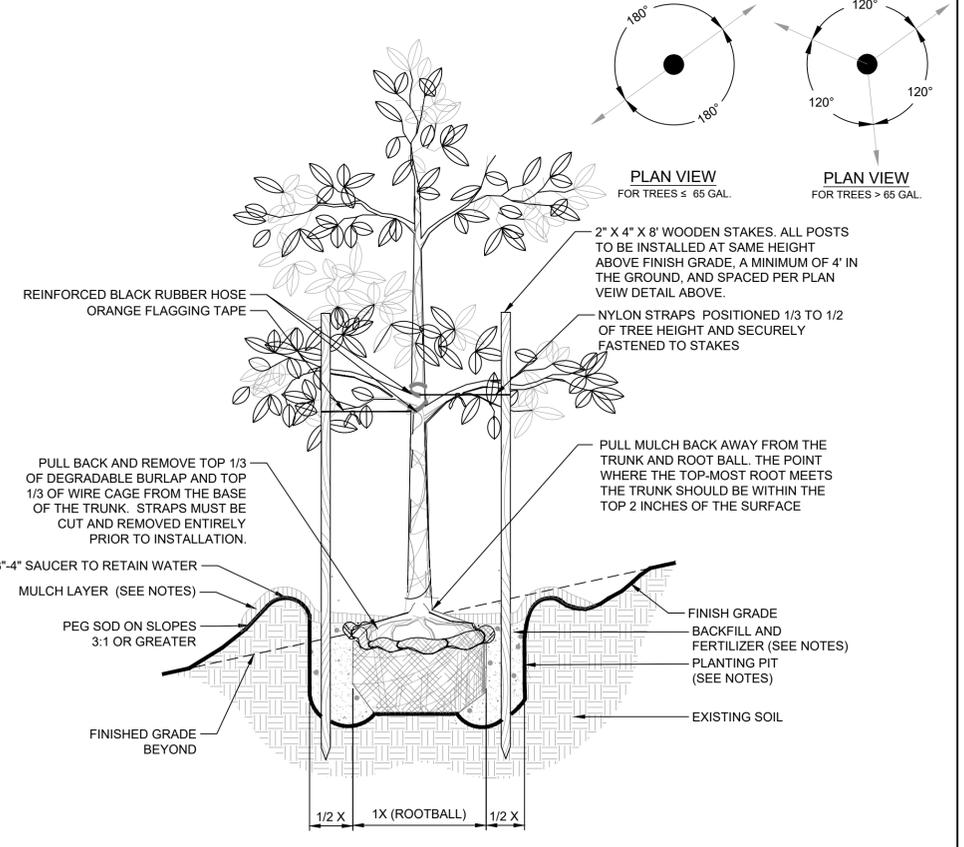
1 TYPICAL SHRUB AND GROUNDCOVER INSTALLATION
NTS



2 TYPICAL SOD INSTALLATION
NTS



3 TYPICAL TREE INSTALLATION
NTS



4 TYPICAL TREE ON SLOPE INSTALLATION
NTS

No.	Date	Issue / Revision

2255 KILLEARN CENTER BLVD.
SUITE 200
TALLAHASSEE, FLORIDA 32309
TEL. (850) 224-4400

LAURA M. DUPLAIN, PLA
PLA NO. 6667408

HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32309
FL LC 26000645

FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

LANDSCAPE DETAILS

DWG NO.	L501
SHEET NO.	

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GENERAL LANDSCAPE NOTES:

- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT SITE CONDITIONS AND DETERMINING REQUIRED QUANTITIES AND AVAILABILITY OF ALL MATERIALS PRIOR TO BIDDING. QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. IF ANY DISCREPANCIES OCCUR BETWEEN QUANTITIES CALLED FOR ON THE PLANT LIST AND THOSE INDICATED ON THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL INSPECT PLANTING AREAS AND VERIFY THAT NO OBJECTIONABLE MATERIALS OR OBSTRUCTIONS ARE PRESENT. PRESENT FINDINGS TO OWNER'S REPRESENTATIVE FOR APPROVAL. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL EXISTING SITE FURNISHINGS, PAVING, LANDSCAPE, AND OTHER ELEMENTS TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION INCLUDING BUT NOT LIMITED TO EXISTING PLANT MATERIAL, GRADES, SIDEWALKS, SITE FURNISHINGS, CURBS, AND UTILITIES. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRE-CONSTRUCTION STATE AT THE CONTRACTOR'S EXPENSE. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SODDING ALL AREAS DISTURBED BY OTHER CONTRACTORS OR BY LANDSCAPE INSTALLATION.
- IN GENERAL, THE WORK SHALL PROCEED AS RAPIDLY AS THE SITE BECOMES AVAILABLE. CONTRACTOR TO COORDINATE PROJECT SCHEDULE WITH OWNER'S REPRESENTATIVE. WORK TO BEGIN WITHIN 5 BUSINESS DAYS OF RECEIPT OF NOTICE TO PROCEED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PLANTING AREAS WITH HARDCAPE, ELECTRICAL, AND IRRIGATION WORK.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY HOISTING EQUIPMENT NECESSARY FOR THE PLACEMENT OF PLANT MATERIAL.
- COLLECT SOIL SAMPLES AT A MINIMUM OF (5) PLANTING LOCATIONS THROUGHOUT THE PROJECT. SUBMIT TESTING LOCATIONS TO OWNER'S REPRESENTATIVE PRIOR TO TAKING SAMPLES. SAMPLES SHALL BE SENT TO AN APPROVED AGRONOMIC SOILS TESTING LABORATORY. STATING PROPOSED PLANT MATERIAL AT EACH TEST LOCATION. ANALYSIS SHALL INCLUDE, AT A MINIMUM, PH, NPK, ORGANIC CONTENT, TEXTURE, AND SOLUBLE SALTS. SUBMIT RESULTS/RECOMMENDATIONS AND PROPOSED FERTILIZER ANALYSIS/AMENDMENTS TO OWNER'S REPRESENTATIVE. COSTS OF FERTILIZER AND AMENDMENTS ARE TO BE INCLUDED IN THE COST OF THE PROJECT.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING THE CONDITION OF UNDERGROUND UTILITIES THAT AFFECT PLANTING PROCEDURES. IF ANY CONFLICTS OCCUR BETWEEN PROPOSED LOCATION OF TREES ON THE DRAWINGS AND ANY UNDERGROUND, SUBSURFACE, OR OVERHEAD UTILITIES OR STRUCTURES, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN, AND ALL PROPOSED UTILITIES ON THESE DRAWINGS.
- IF THE LANDSCAPE CONTRACTOR DAMAGES ANY STAKED OR IN PLACE UTILITIES OR STRUCTURES BY HIS OWN NEGLIGENCE THEY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, NOTES, AND THE LANDSCAPE SCHEDULE FOR COMPLETE LANDSCAPE INSTALLATION INSTRUCTIONS. NOTIFY OWNER'S REPRESENTATIVE OF ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION OR INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL RE-GRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK. ANY DAMAGED PLANT MATERIAL SHALL BE REPLACED WITH PLANTS OF SAME SPECIES (MIN 12" HT, 3" CAL, 6" CT) EQUALING THE TOTAL DIAMETER BRESTH HEIGHT (DBH) OF THE DAMAGED TREE AND SHALL BE SUBJECT TO ALL REQUIREMENTS HEREIN.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ALL NEWLY INSTALLED PLANT MATERIAL AS NEEDED TO MAINTAIN HEALTH AND VIGOR THROUGHOUT THE 90 DAY MAINTENANCE PERIOD REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION AND/OR RAINFALL.

DAMAGES AND WARRANTY:

- ALL PLANT MATERIAL, INCLUDING TRANSPANTED PLANT MATERIAL, SHALL BE GUARANTEED AT OR ABOVE THE SPECIFIED CONDITIONS THROUGH SUBSTANTIAL COMPLETION AND UNTIL THE END OF THE (1) YEAR WARRANTY PERIOD. MAINTENANCE SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR FOR 90 DAYS AFTER SUBSTANTIAL COMPLETION. AFTER WHICH THE LANDSCAPE CONTRACTOR WILL COORDINATE MAINTENANCE WITH OWNER'S REPRESENTATIVE. DECLINE IN CONDITION OF PLANT MATERIAL DURING INSTALLATION AND/OR WARRANTY PERIOD SHALL BE GROUNDS FOR REJECTION AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-STAKING OF TREES DURING THE WARRANTY PERIOD. IF NECESSARY, MAXIMUM TOLERANCE FROM VERTICAL SHALL BE 3 DEGREES. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES ETC., TO PENETRATE OUTER SURFACE OF TREES OR PALMS. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE OWNER AND/OR THE OWNER'S REPRESENTATIVE HAS THE RIGHT TO REJECT ANY AND ALL WORK WHICH DOES NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS AT ANY STAGE OF THE PROJECT. CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE WEEK (5 BUSINESS DAYS) OR NOTICE.
- CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING TO OWNERS REPRESENTATIVE. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER AND/OR THEIR REPRESENTATIVE SHALL DECLARE THE PROJECT TO BE SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE 1 YEAR WARRANTY PERIOD AND THE 90 DAY MAINTENANCE PERIOD.
- CONTRACTOR SHALL REMOVE ALL PLANT SAUCERS, GRADE SMOOTH, AND RE-MULCH AS WELL AS REMOVE PLANTING STAKES FROM SITE AFTER THE (1) YEAR WARRANTY PERIOD.

PROJECT SUBMITTALS:

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL PROPOSED MATERIALS INCLUDING BUT NOT LIMITED TO PLANTS, STAKING, SOIL AMENDMENTS, FERTILIZER, MULCH, ETC. PRIOR TO PURCHASING. CONTRACTOR SHALL PROVIDE REPRESENTATIVE SAMPLES OF ALL PLANT MATERIAL ON-SITE FOR REVIEW BY OWNER'S REPRESENTATIVE. NOTIFY OWNER'S REPRESENTATIVE OF INSPECTION A MINIMUM OF 3 BUSINESS DAYS PRIOR TO INSPECTION. IF APPROVED BY OWNER'S REPRESENTATIVE, THEN DATED AND SCALED COLOR PHOTOGRAPHS MAY ALSO BE SUBMITTED.
- ALL PROJECT SUBMITTALS MUST BE COMPLETED AND COMPILED IN AN EASILY REPRODUCIBLE FORM. SUBMITTAL SHEETS THAT ARE NOT LEGIBLE AND REPRODUCIBLE WILL BE REJECTED. SUBMITTALS SHEETS THAT DO NOT CLEARLY IDENTIFY THE PRODUCTS OR MATERIALS SELECTED WILL BE REJECTED.
- CONTRACTOR SHALL SUBMIT TO THE OWNER'S REPRESENTATIVE THE GROWER'S AND/OR STATE INSPECTION CERTIFICATE FOR PLANT MATERIAL TWO (2) WEEKS PRIOR TO COMMENCEMENT OF WORK.
- PRODUCTS INSTALLED ON THE PROJECT SITE THAT ARE NOT CONSISTENT WITH THE PROJECT SUBMITTALS WILL BE REMOVED AND REPLACED WITH THE PRODUCTS IDENTIFIED IN THE PROJECT SUBMITTAL PACKAGE AT THE CONTRACTORS EXPENSE.
- PRIOR TO ISSUING SUBSTANTIAL COMPLETION NOTICE THE CONTRACTOR SHALL SUBMIT TO THE OWNER THREE (3) COPIES OF AS BUILT PLANS/DOCUMENTS AND THREE (3) COPIES OF AN ANNUALIZED MAINTENANCE AND OPERATION MANUAL DETAILING ALL SCHEDULES, NURSERY PRACTICES, WATERING REQUIREMENTS, FERTILIZATION, TRIMMING, ETC., FOR ALL PLANT MATERIALS AND PLANT AREAS OF THE PROJECT.

SITE REQUIREMENTS:

- CONTRACTOR SHALL AGREE TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER.
- LANDSCAPE HOLDING AREA, INGRESS, EGRESS, AND SITE ACCESS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOT DISTURB OR IMPED ACCESS TO THE SITE BY OTHERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY CLEANUP OF PREMISES AND REMOVAL OF DISCARDED OR SURPLUS MATERIALS AND RUBBISH IN A LAWFUL MANNER. ANY OPEN PITS OR TRENCHES SHALL BE COMPLETELY AND THOROUGHLY BARRICADED DURING THE WORKDAY AND COMPLETELY FILLED IN AT THE END OF EACH WORKDAY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT REMAINING ON SITE AT THE END OF THE WORK DAY SHALL BE STORED IN AN ORGANIZED FASHION IN THE AREA DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
- DURING CONSTRUCTION, CREWS ARE REQUIRED TO HAVE AT LEASE ONE (1) ENGLISH SPEAKING PERSON ON SITE.

PLANT MATERIAL NOTES:

- ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS PARTS I AND II, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, LATEST EDITION, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS FOR NURSERY STOCK.
- CONTAINER GROWN PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED AND PLANTS WILL BE REJECTED.
- ALL SOD SHALL BE WEED AND WEED SEED FREE, WITH A 2" THICKNESS OF ROOTS CAPABLE OF HOLDING SAND. SOD SHALL BE FRESHLY-CUT WITHIN TWENTY-FOUR (24) HOURS OF LAYING AND LAID WITH TIGHTLY-BUTTED JOINTS. HAND RAKING SHALL BE DONE AS NECESSARY TO ENSURE PROPER EVEN GRADES AND CLEAR SURFACES FOR SOD. STAKING OF SOD SHALL BE DONE AS NECESSARY TO PREVENT MOVEMENT OF MATERIAL.
- ALL PLANT MATERIAL SHALL BE PROTECTED DURING TRANSPORT AND DELIVERY TO JOB SITE WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION.
- SUBSTITUTION OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE; ALL SUBSTITUTIONS MUST MEET MINIMUM SPECIFICATIONS ON THE PLANT LIST.
- SUBSTITUTION OF FIELD GROWN TREES FOR TREES THAT ARE SPECIFIED AS CONTAINER GROWN WILL NOT BE PERMITTED UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. IF SUBSTITUTION IS APPROVED, ALL PLANT SPECIFICATIONS WILL APPLY TO APPROVED BALLED AND BURLAPPED MATERIAL.
- NEW PLANT MATERIAL TO BE INSTALLED WILL BE FIELD ADJUSTED TO ACCOMMODATE EXISTING PLANT MATERIAL SUCH AS OVERHEAD CANOPY TREES, UNDERSTORY TREES AND SHRUBS OR GROUND COVER. THIS WILL INSURE EXISTING PLANT MATERIAL TO REMAIN IN ITS NATURAL STATE. THEREFORE, NO EXISTING PLANT MATERIAL WILL BE ALTERED BY REMOVING, CUTTING, TRIMMING OR DESTROYING IN ORDER TO INSTALL NEW PLANT MATERIAL.
- ALL TREES SHALL BE LOCATED AT LEAST SIX FEET AWAY FROM THE CENTERLINE OF SWALES AND FROM PROPOSED STORMWATER INLETS.

PLANTING:

- TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY PRIOR TO PLANTING.
- BALLED AND BURLAPPED OR ANY BASKETED MATERIAL SHALL HAVE THE TOP ONE THIRD (1/3) OF DEGRADABLE BURLAP AND TOP ONE THIRD (1/3) OF WIRE CAGE PULLED BACK AND REMOVED FROM THE BASE OF THE TRUNK. STRAPS MUST BE CUT AND REMOVED ENTIRELY PRIOR TO INSTALLATION.
- CONTRACTOR SHALL NOTIFY OWNERS REPRESENTATIVE IF ANY CONFLICTS EXIST BETWEEN THE BUILT ENVIRONMENT AND PLANS (I.E. UTILITY CABINETS, UTILITY VALVES, STREET SIGNS, SIDEWALK LOCATIONS)

EXISTING TO REMAIN PLANT CARE:

- FLAG ALL TREES AND PALMS TO BE SAVED IN PLACE. PROVIDE BARRICADING IN ACCORDANCE WITH LOCAL STANDARDS AROUND TREES AND PALMS TO BE SAVED IN PLACE PRIOR TO SITE DEMOLITION.
- ALL WORK INVOLVING EXISTING TREES TO REMAIN SHALL BE UNDERTAKEN IN THE PRESENCE OF A REGISTERED ARBORIST. ALL TREES AND PALMS TO BE SAVED SHALL BE EXAMINED FOR DAMAGE, DISEASE AND INSECT INFESTATION. PARTS OF THE TREE SHOWING THESE CONDITIONS SHALL BE TREATED OR PRUNED IN ACCORDANCE WITH THE ARBORISTS RECOMMENDATIONS. REMOVE ALL DEAD LIMBS AND VINES.
- ROOT PRUNE ALL TREES TO BE SAVED PER DRAWINGS PRIOR TO GRADING AROUND TREES.
- TREAT ALL CUTS WITH A FUNGICIDAL BARRIER. BACKFILL THE TRENCH, WITHIN 4 HOURS OF DIGGING, WITH A 1:1 MIXTURE OF SITE SOIL AND SAWDUST OR OTHER FINE ORGANIC MATERIAL. DO NOT COMPACT.
- FERTILIZE THE PLANT AS DIRECTED BY THE CONSULTING ARBORIST.

PLANTING AREA PREPARATION NOTES:

- THE CONTRACTOR SHALL STAKE LOCATIONS AND LIMITS OF TREES, PLANTING, MULCH, AND SOD AREAS TO REFLECT PLANS TO GREATEST EXTENT POSSIBLE. FOR TREES LOCATED BETWEEN BACK OF CURB AND FRONT OF SIDEWALK, PLACE TREES EQUAL DISTANCE FROM CURB AND SIDEWALK. FOR TREES LOCATED OUTSIDE OF RIGHT-OF-WAY, PLACE TREES A MINIMUM OF 5' FROM BACK OF SIDEWALK, 2.5' FOR PALMS. COORDINATE WITH OWNER'S REPRESENTATIVE TO INSPECT STAKING LOCATIONS AND LIMITS ON SITE. PROVIDE MINIMUM 5 BUSINESS DAYS ADVANCE NOTIFICATION OF PROPOSED INSPECTION. CONTRACTOR SHALL MAKE MODIFICATIONS AS MAY BE REQUESTED.
- WORK WITHIN 15' OF EXISTING TREES TO REMAIN SHALL BE PERFORMED USING HAND TOOLS. ANY DISTURBED ROOTS SHALL BE SEVERED USING CLEAN AND SHARP TOOLS.
- HERBICIDE APPLICATION: BEGIN TURF SPRAYING PROCESS A MINIMUM 30 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY TURF AREA TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER'S RECOMMENDATIONS. 7 DAYS AFTER SPRAYING, CLOSE MOW TO 1" HEIGHT. 14 DAYS AFTER CLOSE MOWING, RE-SPRAY WITH GLYPHOSATE PER MANUFACTURER'S RECOMMENDATIONS. PROTECT EXISTING PLANTS TO REMAIN FROM OVER-SPRAY OR SPRAY WITHIN ROOT ZONE. CONTRACTOR TO ENSURE TOTAL WEED ERADICATION. 7 DAYS AFTER RE-SPRAYING, PROCEED WITH TURF REMOVAL AND LANDSCAPE INSTALLATION AS DESCRIBED BELOW.
- FOR PROPOSED INDIVIDUAL TREE PLANTING PITS
KILLED TURF TO BE REMOVED SHALL BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 4". EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. TURF SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING AND BACKFILL PROCESS. INSTALL TREES AS DETAILED. ESTABLISH FINISHED PRE-MULCHING GRADE WITHIN 4" BELOW TOP OF SURROUNDING TURF OR HARDCAPE.

TO ASSURE DRAINAGE/PERCOLATION OF INDIVIDUAL TREE PLANTING PITS PRIOR TO INSTALLATION, CONTRACTOR SHALL FILL SAMPLE TREE PITS (1 IN 5) WITH WATER AND OBSERVE PERCOLATION. HOLES SHALL PERCOLATE IN 30 MINUTES OR LESS. BRING DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.

INSTALL BACKFILL MIXTURE IN LIFTS AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. THOROUGHLY FLUSH WITH WATER AT EACH LIFT AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL WITH THE TOP OF ROOTBALL 1"-2" ABOVE FINISHED GRADE.

- FOR PROPOSED PLANTING AREAS
KILLED TURF TO BE REMOVED SHALL BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 6". EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. TURF SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING PROCESS. BEFORE INSTALLING TOPSOIL, RAKE SUBSOIL SURFACE CLEAR OF STONES (1 INCH DIAMETER AND LARGER), DEBRIS, RUBBISH, DELETERIOUS MATERIALS. CONTAMINATED SOILS SHALL BE REMOVED AND REPLACED TO THEIR FULL DEPTHS AND EXTENTS. INSTALL TOPSOIL AT 6" DEPTH. TILL TOPSOIL, AND EXISTING SUBSOIL TO A DEPTH OF 12". INSTALL PLANTINGS AS DETAILED. ESTABLISH OR RE-ESTABLISH PRE-MULCHING ROUGH GRADES INSURING POSITIVE FLOWS AND AESTHETIC LANDFORM SHAPES SHOWN IN THE GRADING PLANS.
- FOR PROPOSED MULCH ON GRADE AREAS
LEAVE KILLED TURF IN PLACE. REMOVE KILLED TURF ONLY AT EDGES OF BED, APPROXIMATELY 12" WIDTH, AS REQUIRED TO ESTABLISH A TAPERED DIFFERENCE IN GRADE SO THAT INSTALLED MULCH (3" DEPTH) SHALL BE FLUSH TO 1" BELOW ADJACENT TURF OR HARDCAPE.
- FOR PROPOSED SOD AREAS
KILLED TURF TO BE REMOVED SHALL BE CLEARED AND GRUBBED TO A MINIMUM DEPTH OF 4". EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. TURF SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING AND BACKFILL PROCESS. INSTALL TOPSOIL AT 2" DEPTH. TOPSOIL SHALL ESTABLISH FINISHED GRADE AT 2" BELOW EXISTING TURF OR HARDCAPE. INSTALL SOD AS DETAILED. BUTT SOD PIECES TOGETHER CLOSELY AND ENSURE EDGES ARE TRIMMED EVENLY. ENSURE EXISTING GRADES ARE RE-ESTABLISHED FOR A FLUSH TRANSITION.
- AN EVEN, WELL DEFINED LINE SHALL SEPARATE PLANTING AND MULCH ON GRADE AREAS FROM ALL SOD OR SEEDED AREAS.

- BACKFILL MIXTURE FOR TREES AND SHRUBS SHALL CONSIST OF: 25% COARSE SAND, 25% "BLENDED SOIL" OR EQUAL, AND 50% EXISTING SOIL. DISCARD REMAINING SOIL IN A LAWFUL MANNER. ALL PLANTING BACKFILL MIXTURES ARE SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE. MIX THOROUGHLY PRIOR TO INSTALLATION ACCORDING TO THE FOLLOWING SCHEDULE:

1 GALLON:	0.003 CY (0.08 CF)	COARSE SAND AND 0.003 CY (0.08 CF) "BLENDED SOIL"
3 GALLON:	0.006 CY (0.16 CF)	COARSE SAND AND 0.006 CY (0.16 CF) "BLENDED SOIL"
7 GALLON:	0.015 CY (0.4 CF)	COARSE SAND AND 0.015 CY (0.4 CF) "BLENDED SOIL"
15 GALLON:	0.03 CY (0.8 CF)	COARSE SAND AND 0.03 CY (0.8 CF) "BLENDED SOIL"
30 GALLON:	0.06 CY (1.6 CF)	COARSE SAND AND 0.06 CY (1.6 CF) "BLENDED SOIL"
45 GALLON:	0.11 CY (2.9 CF)	COARSE SAND AND 0.11 CY (2.9 CF) "BLENDED SOIL"
65 GALLON:	0.17 CY (4.6 CF)	COARSE SAND AND 0.17 CY (4.6 CF) "BLENDED SOIL"

"BLENDED SOIL" SHALL CONSIST OF: 1/3 MUSHROOM COMPOST OR PEAT, 1/3 COMMERCIALY PROCESSED AND COMPOSTED COW MANURE AND 1/3 COMPOSTED BARK. SUBMIT PRODUCT SAMPLE/DATA SHEET FOR BLENDED SOIL COMPONENTS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.

- TOPSOIL IMPORTED TO THE SITE SHALL BE SIEVED TOPSOIL, FREE OF ROCKS AND DEBRIS. CONTRACTOR SHALL SUBMIT SOIL ANALYSIS RESULTS FROM AN APPROVED AGRONOMIC SOILS TESTING LABORATORY FOR A MINIMUM OF PH, ORGANIC CONTENT, SOLUBLE SALTS, AND TEXTURE WITH A STATEMENT OF SUITABILITY FOR CENTIPEDE SOD (EREMOCHLOA OPHUROIDES) AND SHRUBS/GRASSES. TOPSOIL SHALL BE FREE OF DELETERIOUS MATERIALS THAT WOULD BE HARMFUL TO PLANT GROWTH. SHALL BE FREE OF NEMATODES. SHALL BE OF UNIFORM QUALITY AND SHALL HAVE A PH VALUE BETWEEN 6.5 AND 7.5 (AS DETERMINED IN ACCORDANCE WITH ASTM E70). PEAT SHALL BE STERILIZED TO MAKE FREE OF ALL VIABLE NUT GRASS AND OTHER UNDESIRABLE WEEDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE SUITABILITY FOR GROWTH OF ALL PROPOSED PLANT MATERIAL. SUBMIT PRODUCT SAMPLE/DATA SHEET FOR TOPSOIL TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.

LANDSCAPE CONTRACTOR SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ENSURING A MINIMUM 3% POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. ANY DISCREPANCY IN THE DRAWINGS, OBSTRUCTION ON THE SITE, OR PRIOR WORK DONE BY ANOTHER PARTY WHICH THE LANDSCAPE CONTRACTOR FEELS PRECLUDES ESTABLISHING PROPER DRAINAGE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE.

- INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR SHALL CONFIRM FERTILIZER REQUIREMENTS PER LOCAL MUNICIPALITY. AS A MINIMUM FOR BIDDING PURPOSES THE CONTRACTOR SHALL ASSUME THE FOLLOWING CONCERNING FERTILIZER:

FOR INITIAL INSTALLATION OF TREES AND SHRUBS, FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS MG, S, B, CU, FE, MN, MO, AND ZN. FERTILIZER GRANULES SHALL BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.

FOR INSTALLATION OF CENTIPEDE SOD, FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 16-4-8. SOURCE FOR N SHALL BE RESIN-COATED UREA OR RESIN COATED AMMONIUM SALTS. MN, ZN, AND CU SHALL BE SULFATE FORMS. FE SHALL BE GRANULAR CHELATED IRON.

APPLICATION RATES ARE PROVIDED AS A RECOMMENDATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL:

1.0 OZ PER EA 1 GALLON CONTAINER	3.0 OZ PER EA 3 GALLON CONTAINER	
6.0 OZ PER EA 7 GALLON CONTAINER	9.0 OZ PER EA 15 GALLON CONTAINER	16.0 OZ PER EA 30 GALLON CONTAINER
4.0 OZ PER EA 45 GALLON CONTAINER	32.0 OZ PER EA 65 GALLON CONTAINER	

FOR GRASSING AND SOD AREAS: APPLY 6 LBS/1000SF.

- BUILD EARTHEN SAUCER TO CONTAIN WATER AROUND EACH INDIVIDUAL TREE PLANTING PIT AND AT THE PERIMETER OF ALL PLANTING AREAS. REMOVE EXCESS EXCAVATED SOIL FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER.
- SPREAD MULCH AROUND INDIVIDUAL TREE RINGS, PLANTING AND MULCH AREAS.
MULCHING FOR INDIVIDUAL TREE RINGS, PLANTING, AND MULCH AREAS SHALL BE FINE BARK MULCH, FULL LENGTH, DRY, BRIGHT IN COLOR, FRESHLY BALE, AND 3" DEPTH AFTER SETTLING, COMPOSED ONLY OF NEEDLES OF SLASH, LOBLOLLY, OR LONGLEAF PINE. FINE BARK SHALL NOT BE USED IF IT IS ROTTED OR MOLDY, OR CONTAINS SEED, TUBERS, OR RHIZOMES OF ANY NOXIOUS SPECIES. THE ENTIRE LOT OF PINE BARK NUGGETS BE REJECTED IF THERE IS ANY EVIDENCE THAT THE FINE BARK LOT WAS HARVESTED FROM A SITE INFESTED WITH LYCIDIUM JAPONICUM OR LYCIDIUM MICROPHYLLUM (CLIMBING FERN). MULCH SHALL BE UNIFORMLY SPREAD OVER THE FULL DIAMETER OF EACH INDIVIDUAL TREE RING, PLANTING, AND MULCH AREA. MULCH AREAS INCLUDE INITIAL INSTALLATION (3" DEPTH) PLUS RE-MULCHING (1.5" DEPTH MINIMUM) A MINIMUM ONCE PER YEAR DURING THE (1) YEAR WARRANTY PERIOD. MULCH SHALL NOT BE PLACED AGAINST TRUNKS OR STEMS OF PLANTS. SUBMIT PRODUCT SAMPLE/DATA SHEET FOR MULCH TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
- PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL INDIVIDUAL TREE RINGS, PLANTING, AND MULCH AREAS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE HERBICIDE SHALL BE APPLIED BY HAND. MANUFACTURER RECOMMENDATIONS FOR APPLICATION METHOD, TIMING AND APPLICATION RATE SHALL BE STRICTLY ADHERED TO.

ON THE DATE ADJACENT TO THE SEAL.

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HALFF ASSOCIATES, INC.
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TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-2-33.004, F.A.C.

No.	Date	Issue / Revision	FLORIDA-ALABAMA TPO			DWG NO.
						L502
			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.
			NORTH W STREET	ESCAMBIA	451524-1-38-01	



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LANDSCAPE NOTES

ESCAMBIA COUNTY NOTES:

LANDSCAPE INSTALLATION (DESIGN STANDARDS MANUAL 2-6.2):

WHENEVER LANDSCAPING IS REQUIRED OR ANY CONDITION OF COUNTY APPROVAL IT SHALL BE INSTALLED IN A SOUND MANNER ACCORDING TO ESTABLISHED PROFESSIONAL STANDARDS, AND IN COMPLIANCE WITH THIS MANUAL.

A. PLANT PLACEMENT. THE INSTALLATION OF PLANTS IN APPROPRIATE LOCATIONS IS ESSENTIAL TO THEIR LONG-TERM SURVIVAL. LOCATIONS SHOULD MATCH MATURE PLANT SIZE TO AVAILABLE SOIL VOLUME AND OTHER CONDITIONS FOR GROWTH. APPROPRIATE SEPARATION FROM PAVEMENT AND STRUCTURES, INCLUDING STREETS, DRIVEWAYS, CURBS, SIDEWALKS, SIGNS, LIGHTS AND UTILITIES MUST BE PROVIDED.

1. SIGHT DISTANCES. LANDSCAPING WITHIN THE SIGHT DISTANCE AREAS PRESCRIBED IN ARTICLE 5 FOR STREETS AND SITE ACCESS SHALL BE DESIGNED, INSTALLED AND MAINTAINED TO ALLOW VISIBILITY BETWEEN THREE FEET AND NINE FEET ABOVE GRADE. THE TRUNKS OF MATURE TREES TRIMMED OF FOLIAGE TO NINE FEET, AND NEWLY PLANTED TREES WITH IMMATURE CROWN DEVELOPMENT ALLOWING VISIBILITY ARE GENERALLY ACCEPTABLE WITHIN SUCH AREAS.

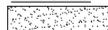
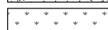
2. MINIMUM TREE AREA. EACH NEW TREE SHALL BE PLANTED AT THE CENTER OF A MINIMUM PERMANENT PERVIOUS ROOTING AREA CLEAR OF ALL OBSTRUCTIONS TO ALLOW GROWTH TO MATURITY. THE MINIMUM RADIUS OF THE ROOTING AREA SHALL BE FOUR FEET FOR AN UNDERSTORY TREE AND SIX FEET FOR A CANOPY TREE. THIS MINIMUM CIRCULAR AREA SHALL CONTAIN NO SIDEWALKS, CURBS OR PAVEMENT AND NO STRUCTURES, INCLUDING LIGHT OR UTILITY POLES, SIGNS, MANHOLES, STORMWATER INLETS, VAULTS, TRANSFORMERS, FIRE HYDRANTS OR BACKFLOW PREVENTERS.

3. MINIMUM TREE SPACING. EACH NEW CANOPY AND UNDERSTORY TREE SHALL BE PLANTED AT LEAST 12 FEET FROM ANY OTHER TREE. ADDITIONALLY, ANY TREES TO BE PLANTED WITHIN THE CRITICAL ROOT ZONES OF PRESERVED CANOPY TREES ARE LIMITED TO UNDERSTORY TREES.

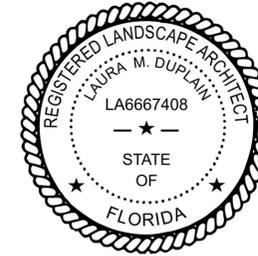
4. OVERHEAD UTILITIES. WHERE OVERHEAD UTILITIES EXIST, ONLY PLANTS THAT WILL NOT CREATE PERSISTENT UTILITY MAINTENANCE OR INTERFERENCE PROBLEMS MAY BE INSTALLED. TO PREVENT TREES FROM BECOMING ENERGIZED OR DISRUPTING ELECTRICAL SERVICE, TREE PLANTING DIRECTLY BELOW POWER LINES SHALL BE AVOIDED AND ONLY UNDERSTORY TREES PLANTED NEAR POWER LINES. WITHIN AN ESTABLISHED ELECTRIC UTILITY RIGHT-OF-WAY NO VEGETATION SHALL BE PLANTED THAT WILL ACHIEVE A HEIGHT GREATER THAN 14 FEET OR INTRUDE FROM THE SIDE CLOSER THAN TEN FEET TO POWER LINES, OR EXCEED CLEARANCES OTHERWISE REQUIRED BY APPLICABLE ANSI STANDARDS. ANY CANOPY TREES PLANTED SHALL BE AT LEAST 25 FEET FROM POWER LINES, AND LARGE MATURING SPECIES SHOULD BE PLANTED AT LEAST 50 FEET AWAY.

B. ACCOMMODATING TREE ROOTS. IN ADDITION TO THE MINIMUM AREAS REQUIRED BY THIS ARTICLE FOR PLANTED AND PRESERVED TREES, CURB, SIDEWALKS, AND OTHER CONCRETE AROUND TREES SHOULD BE MINIMIZED AND MORE FLEXIBLE MATERIALS UTILIZED TO ACCOMMODATE TREE ROOTS, INCLUDING CRUSHED STONE, BRICK-IN-SAND, AND POROUS PAVERS.

PLANT_SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CAL	REMARKS
TREES					
	ACE RUB	12	ACER RUBRUM 'FLORIDA FLAME' / FLORIDA FLAME RED MAPLE	45 GAL.	14' HT X 3' SPD, 4" CAL, FLORIDA NO. 1
	ILE CAS	27	ILEX CASSINE / DAHOON HOLLY	45 GAL.	14' HT X 3' SPD, 3" CAL, 3' CT, FLORIDA NO. 1
	LAG IND	7	LAGERSTROEMIA INDICA 'MUSKOGEE' / MUSKOGEE CRAPE MYRTLE	45 GAL.	10'-12' HT X 5' SPD, 2.5" CAL, STANDARD TRUNK, FLORIDA NO. 1
	MAG GRA	6	MAGNOLIA GRANDIFLORA / SOUTHERN MAGNOLIA	45 GAL.	10'-12' HT X 4' SPD, 2" CAL, FULL TO GROUND
	PIN ELL	16	PINUS ELLIOTTII / SLASH PINE	30 GAL.	8'-9' HT X 3'-4' SPD, 3" CAL, FLORIDA NO. 1
	QUE SHU	17	QUERCUS SHUMARDII / SHUMARD OAK	65 GAL.	12'-13' HT X 3'-4' SPD, 2.5" CAL, FLORIDA NO. 1
	TAX DIS	23	TAXODIUM DISTICHUM / BALD CYPRESS	45 GAL.	10'-12' HT X 3'-4' SPD, 2.5" CAL, FLORIDA NO. 1
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS
SHRUBS					
	CAM SAS	2	CAMELLIA SASANQUA / SHISHI GASHIRA	7 GAL.	36"-48" HT X 48" SPD, SPACING AS SHOWN
	CAM SA2	20	CAMELLIA SASANQUA / OCTOBER MAGIC	7 GAL.	24" HT X 36" SPD, SPACING AS SHOWN
	HAM FIR	44	HAMELIA PATENS / FIREBUSH	3 GAL.	24" HT X 24" SPD, SPACING AS SHOWN
	MUH CAP	161	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS	1 GAL.	24" HT X 24" SPD, FULL CLUMP
	RHO LIL	34	RHODODENDRON X 'ROBLES' / LILAC AZALEA	3 GAL.	18" HT X 18" SPD, SPACING AS SHOWN
	SER REP	21	SERENOA REPENS 'CINEREA' / SILVER SAW PALMETTO	7 GAL.	24" HT X 24" SPD, SPACING AS SHOWN
	TRI DAC	64	TRIPSACUM DACTYLOIDES / FAKAHATCHEE GRASS	1 GAL.	24" HT X 24" SPD, FULL CLUMP
	TRI FLO	100	TRIPSACUM FLORIDANUM / DWARF FAKAHATCHEE GRASS	1 GAL.	24" HT X 24" SPD, FULL CLUMP
	VIB OBO	186	VIBURNUM OBOVATUM / WALTER'S VIBURNUM	3 GAL.	36" HT X 24"-36" SPD, SPACING AS SHOWN
	ZAM PUM	58	ZAMIA PUMILA / COONTIE	3 GAL.	18" HT X 18" SPD, SPACING AS SHOWN
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS
GROUND COVERS					
	ARC GLA	415	ARACHIS GLABRATA 'ECOTURF' / PERENNIAL PEANUT	1 GAL.	12" HT X 12" SPD, 18" O.C., FULL TO POT
	HEM LIL	99	HEMEROCALLIS LILIOASPHODELUS / YELLOW DAYLILY	1 GAL.	18" HT X 18" SPD, 18" O.C., FULL CLUMP
	LIR MUS	760	LIRIOPE MUSCARI 'EMERALD GODDESS' / LIRIOPE	1 GAL.	12" HT X 12" SPD, 18" O.C., FULL CLUMP
	TRA JAS	936	TRACHELOSPERMUM JASMINOIDES 'VARIEGATUM' / VARIEGATED CONFEDERATE JASMINE	1 GAL.	12" HT X 12" SPD, 18" O.C., FULL TO POT
SOD/SEED					
	SY SOD	2,570	EREMOCHLOA OPHIUROIDES / CENTIPEDE SOD	SEED	12"x24" PIECES, WEED FREE, SOD SHALL BE CLEAN AND REASONABLY FREE OF WEEDS, NOXIOUS PESTS, AND DISEASES.
	SY SEED	4,989	EREMOCHLOA OPHIUROIDES SEED / CENTIPEDE SEED	SEED	BROADCAST SEED

NOTE: ALL PLANTS SHALL CONFORM TO THE STANDARDS FOR FLORIDA GRADE NO. 1, OR BETTER AS PROVIDED IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS, DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.



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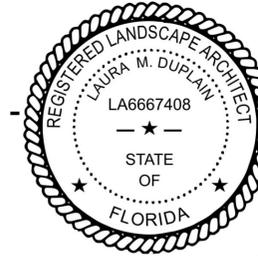
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HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD, SUITE 200
TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408

No.	Date	Issue / Revision	 <p>2255 KILLEARN CENTER BLVD. SUITE 200 TALLAHASSEE, FLORIDA 32309 TEL. (850) 224-4400</p>	<p>LAURA M. DUPLAIN, PLA PLA NO. 6667408</p> <p>HALFF ASSOCIATES, INC. 2255 KILLEARN CENTER BLVD., SUITE 200 TALLAHASSEE, FLORIDA 32309 FL LC 26000645</p>	FLORIDA-ALABAMA TPO			<p>DWG NO. L503 SHEET NO.</p>
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					NORTH W STREET	ESCAMBIA	451524-1-38-01	

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2255 KILLEARN CENTER BLVD, SUITE 200
TALLAHASSEE, FL 32309
LAURA M. DUPLAIN, PLA NO. 6667408

IRRIGATION NOTE:

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EXISTING TREES:

CONTRACTOR TO AVOID WORKING WITHIN EXISTING TREE DRIP LINE IF POSSIBLE. ALL WORK WITHIN EXISTING TREE DRIP LINE SHALL BE DONE USING HAND TOOLS ONLY. CONTRACTOR TO KEEP ROOT DISTURBANCE TO A MINIMUM.

IMPORTANT:

- IRRIGATION DESIGN TO MEET ESCAMBIA COUNTY IRRIGATION STANDARDS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP A CLEAN SET OF AS-BUILT DRAWINGS ON SITE DURING THE INSTALLATION OF THIS SYSTEM. AS-BUILT DRAWINGS MUST BE UPDATED DAILY AND PROVIDED TO THE OWNER'S REPRESENTATIVE PRIOR TO FINAL PAYMENT.
- ALL PRESSURES AND FLOWS SHALL BE ADEQUATE FOR THE COMPLETION OF THIS PROJECT.
- IRRIGATION ZONES SHALL BE DIVIDED INTO DRIP, SPRAY, ANNUAL/PLANTER, AND TREE BUBBLER ZONES. IRRIGATION TYPES MAY NOT OVERLAP.

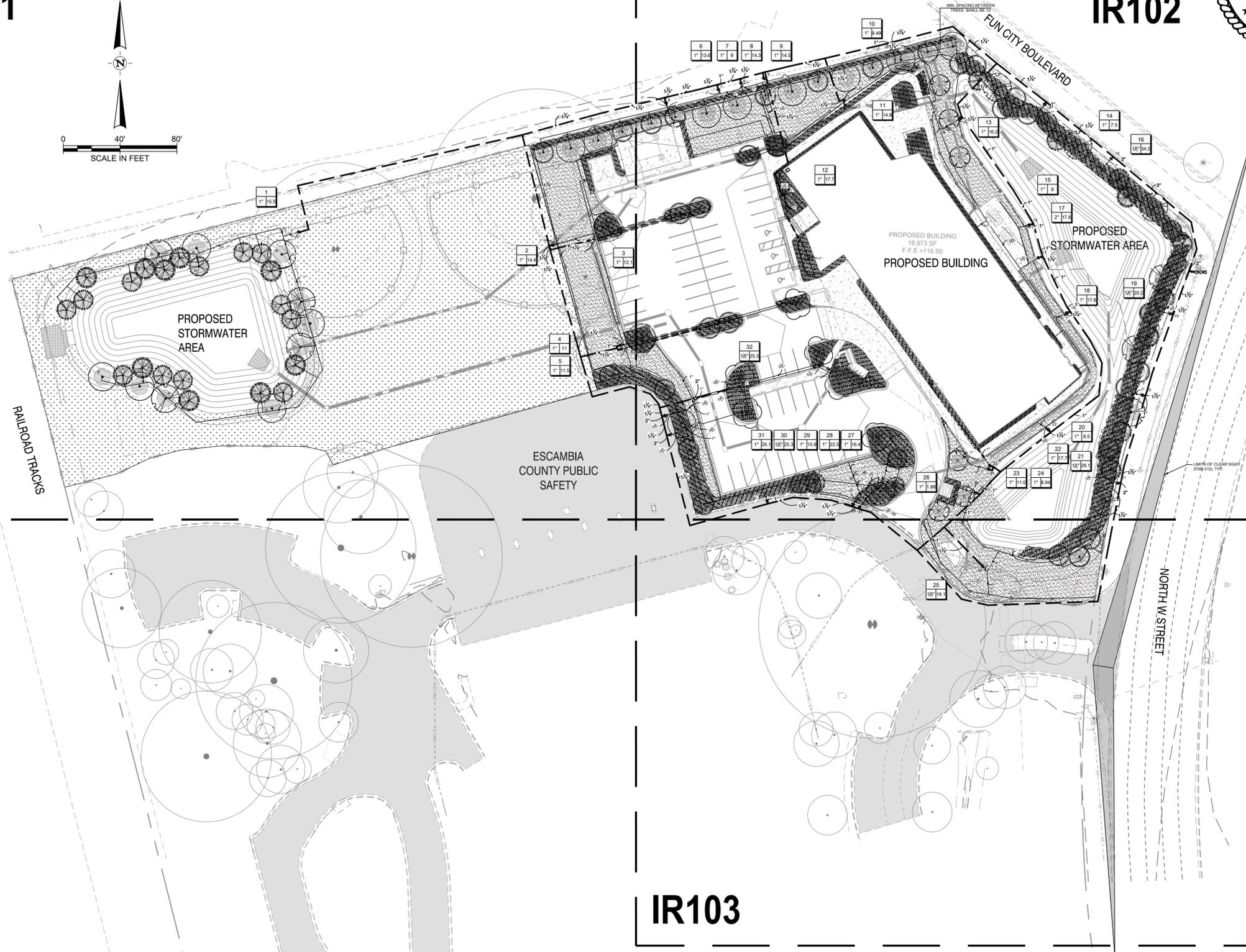
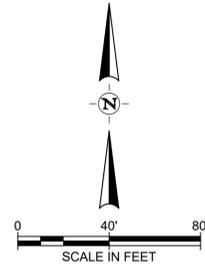
Call Before You Dig

Call Sunshine State One Call, at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.

IR101

IR102

IR103



No.	Date	Issue / Revision



LAURA M. DUPLAIN, PLA
PLA NO. 6667408

HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32309
FL LC 26000645

FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

OVERALL IRRIGATION PLAN

DWG NO.	IR100
SHEET NO.	

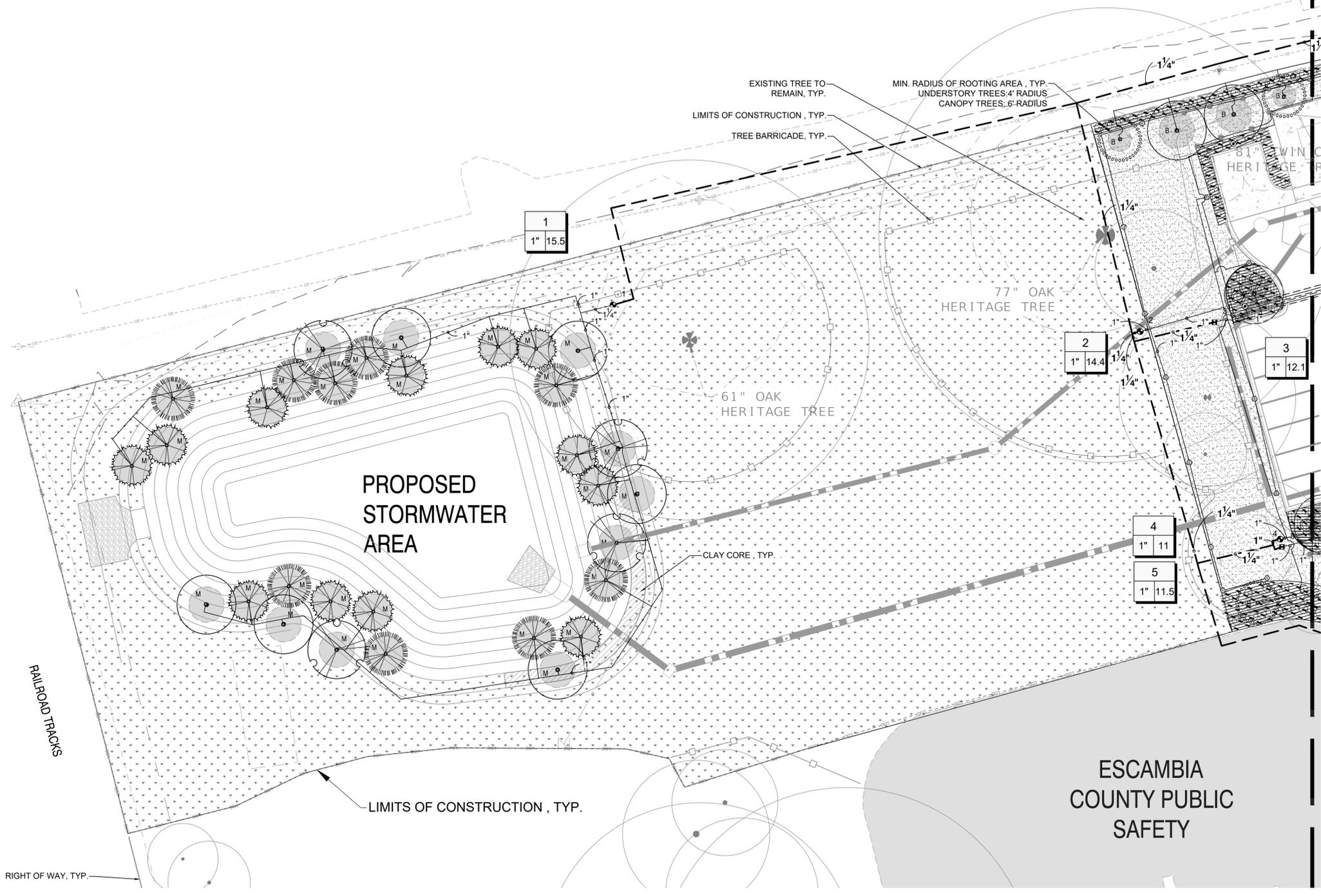
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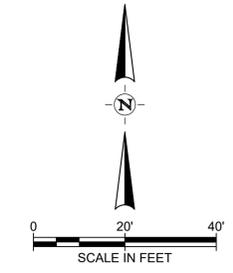


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 2255 KILLEARN CENTER BLVD, SUITE 200
 TALLAHASSEE, FL 32309
 LAURA M. DUPLAIN, PLA NO. 6667408



MATCHLINE - REFER TO SHEET IR102



NOTE:
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NOTE: SOD TO BE IRRIGATED DURING ESTABLISHMENT PERIOD.

No.	Date	Issue / Revision



LAURA M. DUPLAIN, PLA
 PLA NO. 6667408

 HALFF ASSOCIATES, INC.
 2255 KILLEARN CENTER BLVD., SUITE 200
 TALLAHASSEE, FLORIDA 32309
 FL LC 26000645

FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

IRRIGATION PLAN

DWG NO.
 IR101
 SHEET NO.

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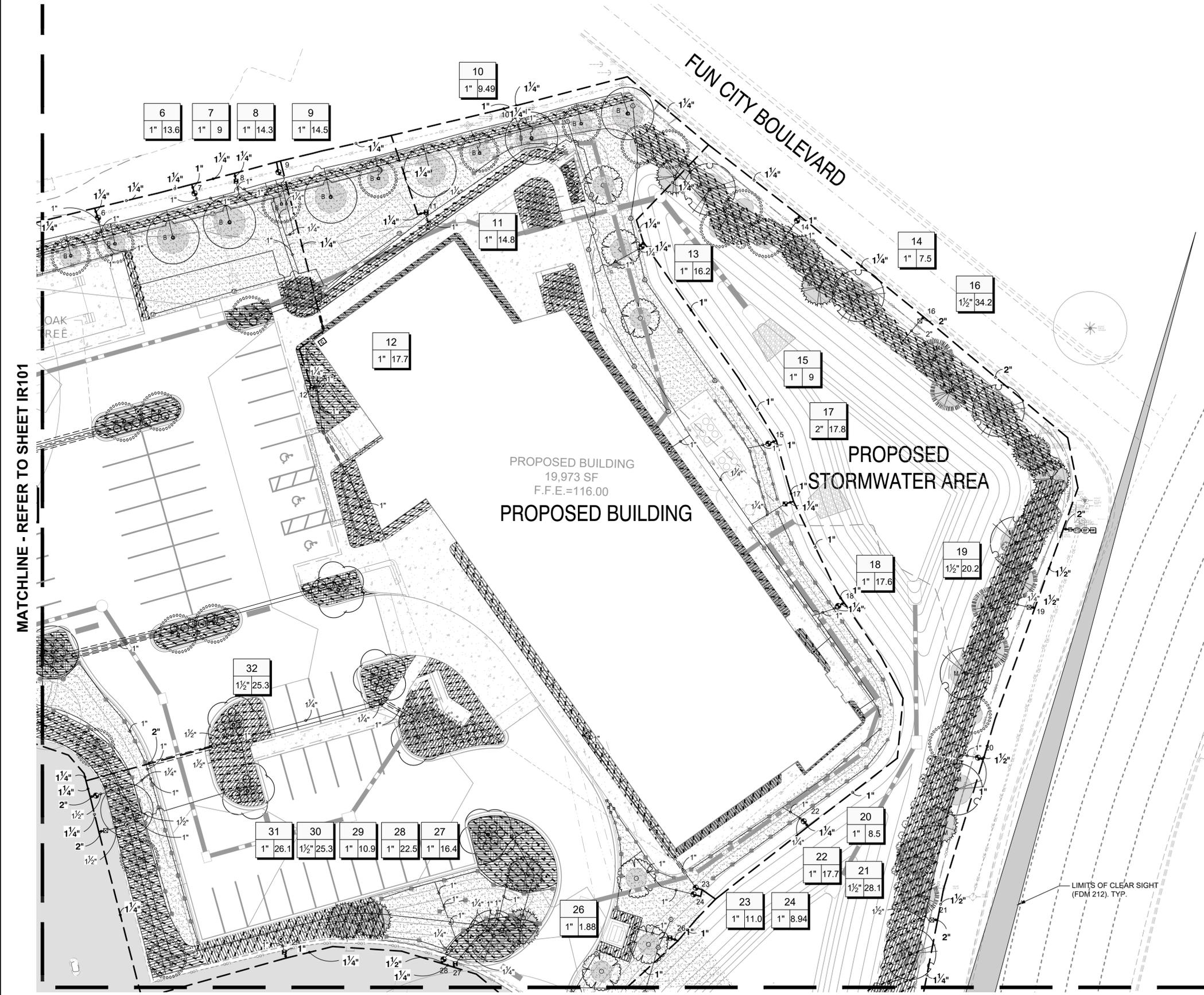
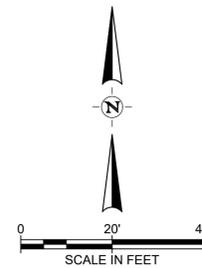
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MATCHLINE - REFER TO SHEET IR103

No.	Date	Issue / Revision



LAURA M. DUPLAIN, PLA
PLA NO. 6667408

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TALLAHASSEE, FLORIDA 32309
FL LC 26000645

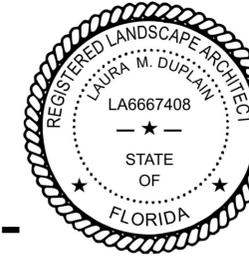
FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

IRRIGATION PLAN

DWG NO.	IR102
SHEET NO.	

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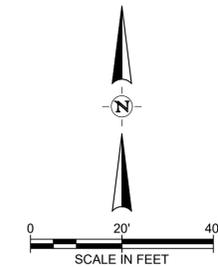


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LAURA M. DUPLAIN, PLA NO. 6667408

MATCHLINE - REFER TO SHEET IR102



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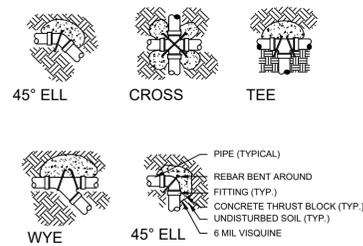
FLORIDA-ALABAMA TPO

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

IRRIGATION PLAN

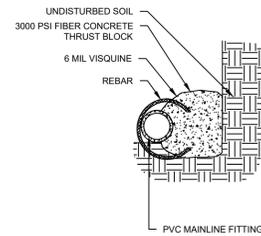
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IR103
SHEET NO.

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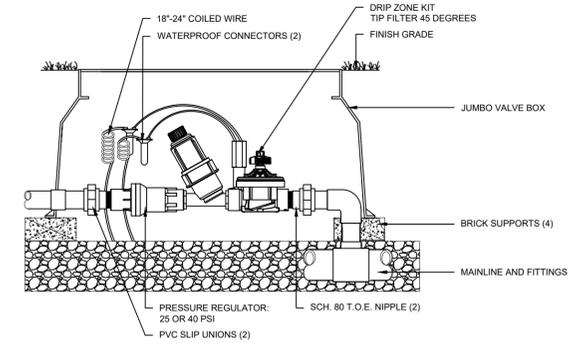
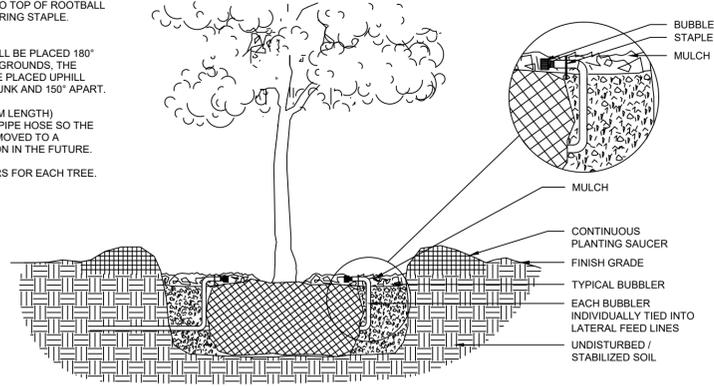
NOTES:

- SUPPLY LINES 2.0 INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS AS SPECIFIED HEREIN & AS APPLICABLE.
- ALL CONCRETE TO BE 2800 PSI OR STRONGER.
- ALL REBAR SHALL BE RUST-FREE.
- FITTINGS TO BE WRAPPED IN VISIQUINE BEFORE POURING THE THRUST BLOCK.
- CONCRETE IS NOT TO INCREASE THE IRRIGATION MAINLINE.



NOTES:

- BUBBLERS ARE TO BE PLACED AT THE MIDPOINT BETWEEN THE EDGE OF THE ROOTBALL AND THE MAIN TRUNK. SECURE BUBBLER TO TOP OF ROOTBALL WITH A SOIL ANCHORING STAPLE.
- THE BUBBLERS SHALL BE PLACED 180° APART IN SLOPING GROUNDS. THE BUBBLERS SHALL BE PLACED UPHILL FROM THE TREE TRUNK AND 150" APART.
- PROVIDE (5' MINIMUM LENGTH) SUFFICIENT FUNNY PIPE HOSE SO THE BUBBLERS CAN BE MOVED TO A DIFFERENT LOCATION IN THE FUTURE.
- PROVIDE 2 BUBBLERS FOR EACH TREE.



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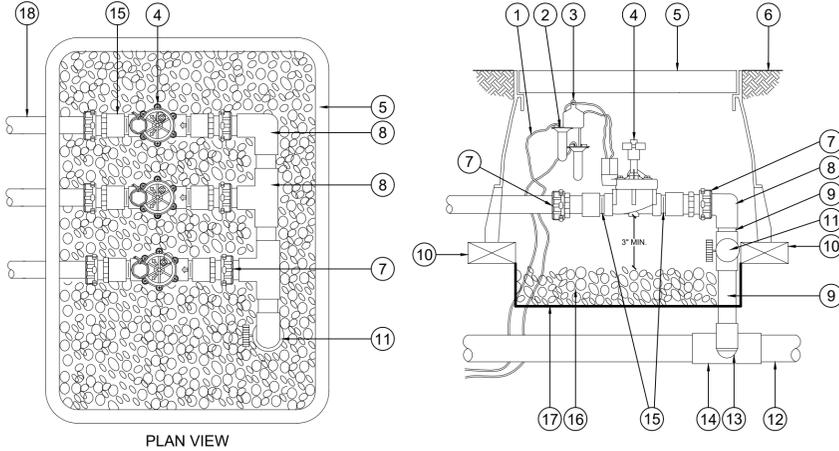
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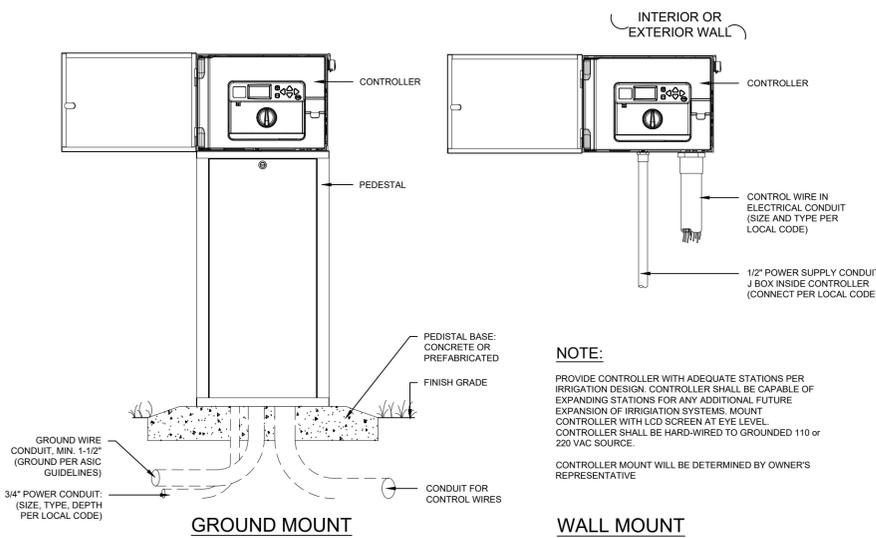


1 TYPICAL THRUST BLOCKING DETAILS
NTS

- | | | | |
|--|-----------------------------|---|---|
| 1 6-FOOT LINEAR LENGTH OF WIRE, COILED | 5 VALVE BOX | 9 PVC SCH 80 NIPPLE | 14 PVC SCH 40 OR MEGALUG TEE OR ELL AS REQUIRED |
| 2 WATERPROOF CONNECTION | 6 FINISH GRADE/TOP OF MULCH | 10 BRICK (1 OF 4) | 15 PVC SCH 40 MALE ADAPTER |
| 3 ZONE ID TAG | 7 PVC UNION | 11 PVC BALL VALVE | 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL |
| 4 CONTROL VALVE | 8 PVC SCH 40 ELL OR TEE | 12 PVC MAINLINE PIPE | 17 MIRAFI 140NC GEOTEXTILE FABRIC |
| | | 13 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL | 18 PVC LATERAL PIPE |

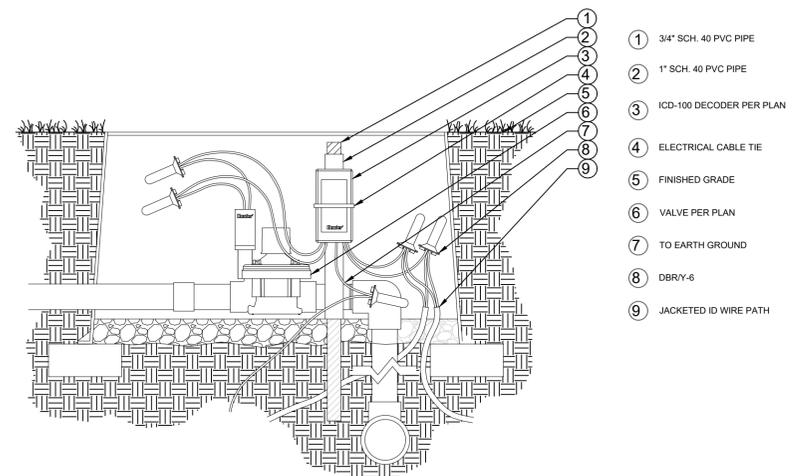


2 TYPICAL BUBBLER DETAIL
NTS

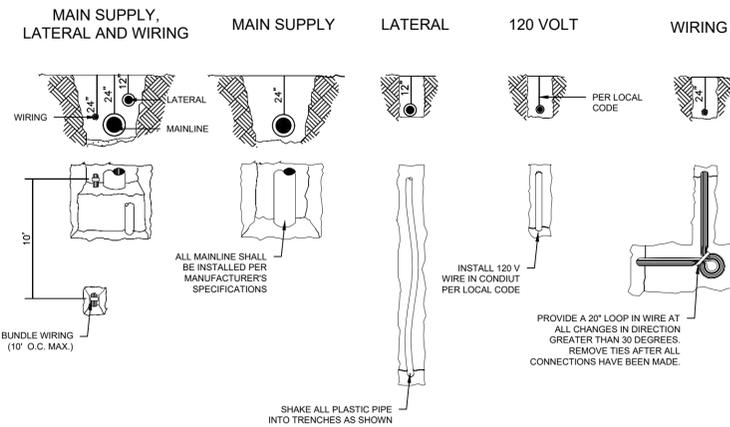


NOTE:
PROVIDE CONTROLLER WITH ADEQUATE STATIONS PER IRRIGATION DESIGN. CONTROLLER SHALL BE CAPABLE OF EXPANDING STATIONS FOR ANY ADDITIONAL FUTURE EXPANSION OF IRRIGATION SYSTEMS. MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUND 110 or 220 VAC SOURCE.
CONTROLLER MOUNT WILL BE DETERMINED BY OWNER'S REPRESENTATIVE

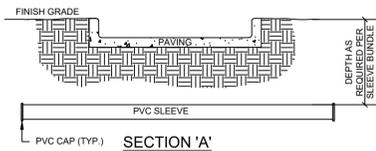
3 TYPICAL VALVE (DRIP)
NTS



4 TYPICAL VALVE MANIFOLD (BUBBLERS)
NTS

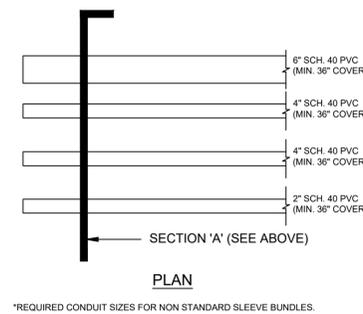


5 TYPICAL CONTROLLER
NTS



NOTES:

- TO FACILITATE FUTURE CABLE INSTALLATION, CONDUITS ARE PLACED AS STRAIGHT AS POSSIBLE WITHIN THE TRENCH.
- WHERE CONDUIT BREAKS ARE ANTICIPATED (I.E. AT ROAD CROSSINGS WITH MEDIAN ACCESS) THE ENTIRE LENGTH SHALL BE INSTALLED AS ONE UNIT AND THEN THE BREAK SHALL BE CUT AND REMOVED.
- SLEEVING SHALL EXTEND A MINIMUM OF 24" BEYOND EDGE OF PAVEMENT.
- THE LOCATION OF SLEEVE ENDS SHALL BE RECORDED USING TWO PERMANENT REFERENCE POINTS AND THE APPROXIMATE DEPTH BELOW FINISH GRADE.
- CONDUITS SHALL BE INSTALLED WITH CLEAN (BARB FREE) ENDS AND FREE OF CRACKING AND OTHER DAMAGE.
- CONTRACTOR TO REFER TO IRRIGATION PLANS FOR SLEEVE SIZE, QUANTITY AND LOCATION



*REQUIRED CONDUIT SIZES FOR NON STANDARD SLEEVE BUNDLES.

6 ICD-100 DECODER ON STAKE
NTS

PIPE SIZE TABLE

IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM)	MINIMUM PIPE SIZE
5-10	3/4"
11-15	1"
16-25	1-1/4"
26-32	1-1/2"
33-52	2"
53-75	2-1/2"
76-110	3"

REFER TO EACH IRRIGATION ZONE ON PLAN DRAWINGS FOR ZONE GPM

ALL PIPE SHALL BE SIZED SO AS NOT TO EXCEED 5 FPS

7 TYPICAL TRENCH DETAIL
NTS

8 SLEEVE BUNDLE
NTS

9 PIPE SIZE TABLE
NTS

No.	Date	Issue / Revision



LAURA M. DUPLAIN, PLA
PLA NO. 6667408

HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32309
FL LC 26000645

FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

IRRIGATION DETAILS

DWG NO.
IR-501
SHEET NO.

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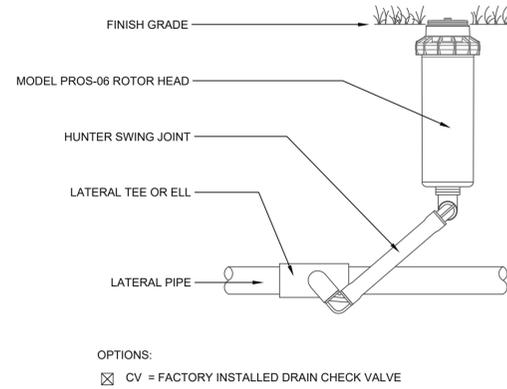


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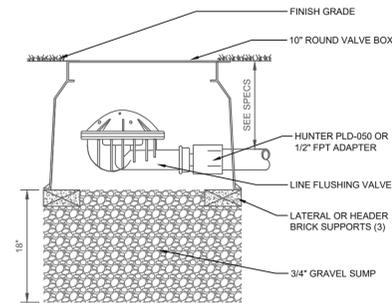
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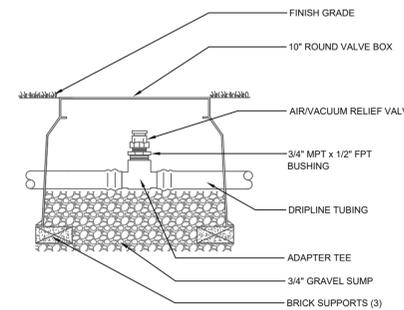
*WHEN USING LARGER GMP NOZZLES, BEWARE OF HIGH FRICTION LOSS IN SWING JOINTS.



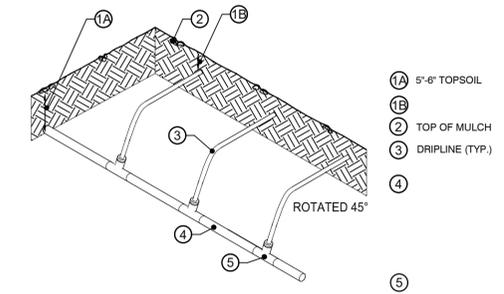
10 PROS-06 ROTOR HEAD WITH SWING JOINT
NTS



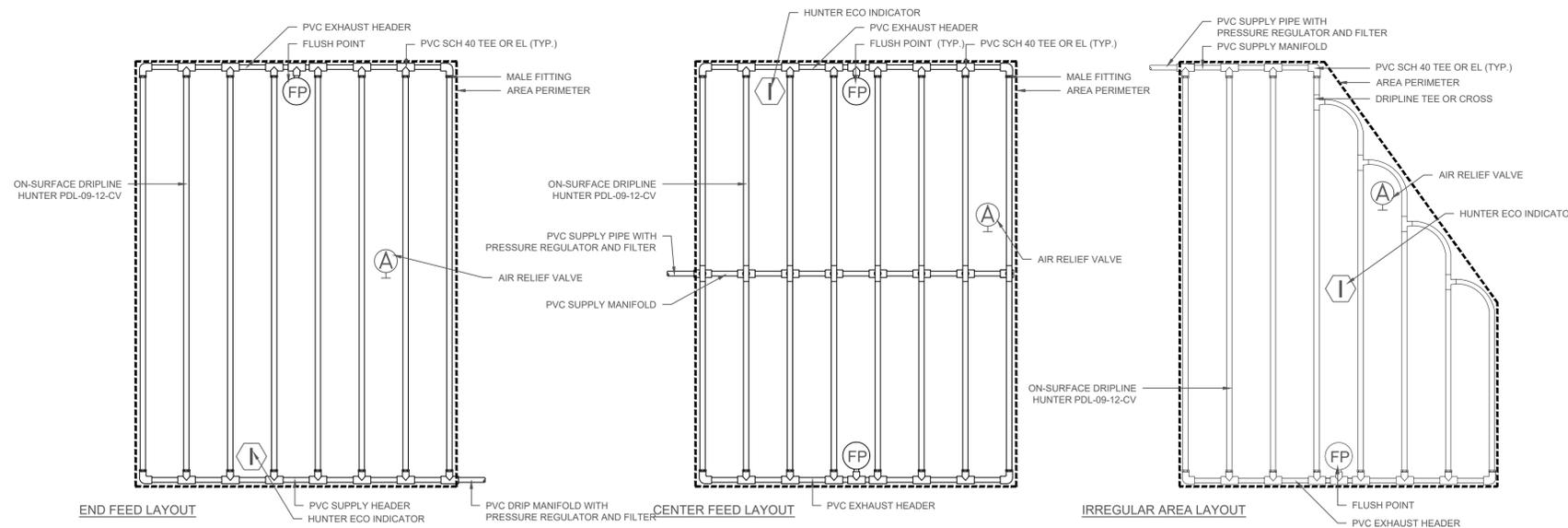
11 FLUSH VALVE AUTO
NTS



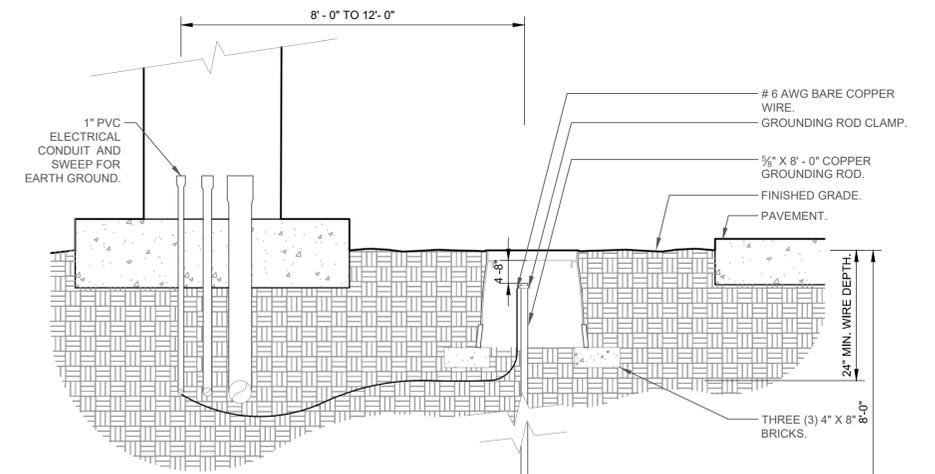
12 AIR RELIEF TUBING
NTS



13 SUPPLY / EXHAUST MANIFOLD FOR DRIP IRRIGATION
NTS



14 TYPICAL DRIP LAYOUT
NTS



- NOTES:
- 1- ALL GROUNDING REQUIREMENTS FOR CONTROLLERS SHALL CONFORM TO LOCAL ELECTRIC CODES.
 - 2- GROUNDING ROD SHALL NOT BE LOCATED IN THE SAME TRENCH AS THE IRRIGATION MAINLINES OR LATERAL LINES.
 - 3- VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
 - 4- INSTALL GROUNDING ROD PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

15 GROUNDING ROD
NTS

CALL 48 HOURS BEFORE YOU DIG
It's the Law!
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	Date	Issue / Revision	LAURA M. DUPLAIN, PLA PLA NO. 6667408			FLORIDA-ALABAMA TPO			DWG NO.	
<p>2255 KILLEARN CENTER BLVD. SUITE 200 TALLAHASSEE, FLORIDA 32309 TEL. (850) 224-4400</p>			<p>HALFF ASSOCIATES, INC. 2255 KILLEARN CENTER BLVD., SUITE 200 TALLAHASSEE, FLORIDA 32309 FL LC 26000645</p>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	<p>IRRIGATION DETAILS</p>	IR-502
						NORTH W STREET	ESCAMBIA	451524-1-38-01		SHEET NO.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PRECIP
1	HUNTER ICV-G	1"	BUBBLER	15.5	15	1.7 in/h
2	HUNTER ICV-G	1"	TURF ROTARY	14.36	30	0.27 in/h
3	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	12.14	15	1.44 in/h
4	HUNTER ICV-G	1"	BUBBLER	11	15	1.7 in/h
5	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	11.51	15	1.44 in/h
6	HUNTER ICV-G	1"	TURF SPRAY	13.62	30	1.55 in/h
7	HUNTER ICV-G	1"	BUBBLER	9	15	1.7 in/h
8	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	14.31	15	1.44 in/h
9	HUNTER ICV-G	1"	TURF ROTARY	14.51	30	0.33 in/h
10	HUNTER ICV-G	1"	TURF SPRAY	9.49	30	1.29 in/h
11	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	14.84	15	1.45 in/h
12	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	17.7	15	1.44 in/h
13	HUNTER ICV-G	1"	TURF ROTARY	16.16	30	1.39 in/h
14	HUNTER ICV-G	1"	BUBBLER	7.5	15	1.7 in/h
15	HUNTER ICV-G	1"	TURF SPRAY	9	30	2.31 in/h
16	HUNTER ICZ-151-XL-40	1-1/2"	AREA FOR DRIPLINE	34.19	15	1.44 in/h
17	HUNTER ICZ-201-XL-40	2"	AREA FOR DRIPLINE	17.84	15	1.45 in/h
18	HUNTER ICV-G	1"	TURF SPRAY	17.55	30	1.65 in/h
19	HUNTER ICZ-151-XL-40	1-1/2"	AREA FOR DRIPLINE	20.22	15	1.44 in/h
20	HUNTER ICV-G	1"	BUBBLER	8.5	15	1.7 in/h
21	HUNTER ICZ-151-XL-40	1-1/2"	AREA FOR DRIPLINE	28.13	15	1.44 in/h
22	HUNTER ICV-G	1"	TURF SPRAY	17.72	30	1.61 in/h
23	HUNTER ICV-G	1"	AREA FOR DRIPLINE	10.95	15	1.44 in/h
24	HUNTER ICV-G	1"	TURF SPRAY	8.94	30	1.35 in/h
25	HUNTER ICV-G	1-1/2"	TURF ROTARY	18.05	30	0.31 in/h
26	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	1.88	15	1.44 in/h
27	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	16.41	15	1.44 in/h
28	HUNTER ICV-G	1"	TURF SPRAY	22.52	30	1.7 in/h
29	HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	10.91	15	1.44 in/h
30	HUNTER ICZ-151-XL-40	1-1/2"	AREA FOR DRIPLINE	25.32	15	1.44 in/h
31	HUNTER ICV-G	1"	TURF SPRAY	26.07	30	1.52 in/h
32	HUNTER ICZ-151-XL-40	1-1/2"	AREA FOR DRIPLINE	25.28	15	1.44 in/h

IRRIGATION SCHEDULE:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER PROS-06-PRS30 SR SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	32		HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.	8
	HUNTER PROS-06-PRS30 8 SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	19		HUNTER ICZ-151-XL-40 DRIP CONTROL ZONE KIT. 1-1/2IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 20 GPM TO 60 GPM. 120 MESH STAINLESS STEEL SCREEN. 1-1/2IN. INLET X SINGLE 2IN. OUTLET.	5
	HUNTER PROS-06-PRS30 10 SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	61		HUNTER ICZ-201-XL-40 DRIP CONTROL ZONE KIT. 2IN. ICV GLOBE VALVE. PRESSURE REGULATION: 40PSI. FLOW RANGE: 20GPM TO 100GPM. 150 MESH STAINLESS STEEL SCREEN. 2IN. INLET X SINGLE 2IN. OUTLET.	1
	HUNTER PROS-06-PRS30 12 SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	24		HUNTER PROS-06-PRS30 ADJ SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	1
	HUNTER PROS-06-PRS30 15 SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	12		HUNTER MP1000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	5
	HUNTER PROS-06-PRS30 ADJ SERIES TURF SPRAY, 30 PSI REGULATED 6IN. POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	1		HUNTER MP2000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	8
	HUNTER MP1000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	5		HUNTER MP3000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	24
	HUNTER MP2000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	8		HUNTER MP3500 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210.	11
	HUNTER MP3000 PROS-04-PRS30-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE. PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	24		HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT. USE 2 BUBBLERS @ 0.25 GPM PER EACH TREE.	103
	HUNTER PCB FLOOD BUBBLER, 1/2IN. FIPT. USE 2 BUBBLERS @ 0.25 GPM PER EACH TREE.	103		IRRIGATION LATERAL LINE: PVC SCHEDULE 40	
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21			PIPE SLEEVE: PVC SCHEDULE 40 SLEEVES AT EACH CROSSING TO BE 2 SIZES LARGER THAN THE PIPE TO BE INSTALLED IN THE SLEEVE. SLEEVES SHALL EXTEND 24" BEYOND CURB AND BE CAPPED.	

CRITICAL ANALYSIS

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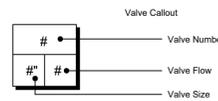
P.O.C. NUMBER: 01
Water Source Information: Potable Meter

FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 45 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 65 PSI
Elevation Change: 0.00 ft
Service Line Size: 8"
Length of Service Line: 0 ft
Pressure Available: 65 PSI

DESIGN ANALYSIS
Maximum Station Flow: 34.19 GPM
Flow Available at POC: 45 GPM
Residual Flow Available: 10.82 GPM

Critical Station: 31
Design Pressure: 30 PSI
Friction Loss: 0.91 PSI
Fittings Loss: 0.05 PSI
Elevation Loss: 0 PSI
Loss through Valve: 6.64 PSI
Pressure Req. at Critical Station: 37.6 PSI
Loss for Fittings: 0 PSI
Loss for Main Line: 5.81 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 10.6 PSI
Loss for Water Meter: 4.04 PSI
Critical Station Pressure at POC: 58.0 PSI
Pressure Available: 65 PSI
Residual Pressure Available: 6.98 PSI



GENERAL IRRIGATION NOTES:

- SCOPE OF WORK: THE WORK CONSISTS OF THE PREPARATION OF DESIGN DOCUMENTS AND INSTALLING A COMPLETE UNDERGROUND IRRIGATION SYSTEM, INCLUDING THE FURNISHING OF ALL LABOR, EQUIPMENT, PERMITS, MATERIALS, AND THE PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE CONSTRUCTION OF THE IRRIGATION SYSTEM. IT SHALL INCLUDE FURNISHING AND INSTALLING ALL PLASTIC AND GALVANIZED STEEL PIPE AND FITTINGS, AUTOMATIC CONTROL VALVES, RAIN / MOISTURE SENSORS, PRESSURE RELIEF VALVES, CHECK VALVES, VALVE ACCESSORIES, SPRINKLER HEADS, ELECTRIC CONTROLLERS, FLOAT SWITCHES, ELECTRIC WIRE, PUMPS, PUMP INTAKE AND SUCTION SYSTEM, NECESSARY MOTOR STARTERS, RELAYS, ETC., AS CALLED FOR IN THESE SPECIFICATIONS, OR AS MAY BE REQUIRED FOR PROPER OPERATION OF THE SYSTEM.
- POINT OF CONNECTION SHALL BE DETERMINED BY OWNER'S REPRESENTATIVE. SPECIFIC LOCATION TO BE IDENTIFIED BY OWNER'S REPRESENTATIVE.
- LIMITS OF IRRIGATION: PROVIDE 100% COVERAGE OF ALL PREPARED PLANTING BEDS AS SHOWN ON THE DRAWINGS WITH TREES, SHRUBS, AND GROUNDCOVERS. TREES ISOLATED IN LAWN AREAS SHALL BE PROVIDED WITH A BUBBLER AND ZONED INDEPENDENTLY. SOIL AND/OR SEEDED AREAS AS IDENTIFIED IN PLANTING PLANS ARE INTENDED TO BE PROVIDED WITH 100% IRRIGATION COVERAGE.
- IRRIGATION TO MEET ESCAMBIA COUNTY IRRIGATION STANDARDS AS WELL AS ANY OTHER APPLICABLE MUNICIPAL AND STATE LAWS AND RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK. THESE LAWS, RULES, AND REGULATIONS ARE HEREBY INCORPORATED INTO, AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE IRRIGATION SUBCONTRACTOR. ANYTHING CONTAINED IN THESE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY OF THE ABOVE MENTIONED RULES, REGULATIONS OR REQUIREMENTS, AND SHOULD A CONFLICT OCCUR, THE RULES OR REQUIREMENTS OF THE GOVERNING CODE SHALL BE ADHERED TO. HOWEVER, WHEN THESE SPECIFICATIONS CALL FOR OR DESCRIBE MATERIALS, WORKMANSHIP, OR CONSTRUCTION OF A BETTER QUALITY, HIGHER STANDARD OR LARGER SIZE, THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS OF SAID RULES, REGULATIONS OR CODES.
- ANY PERMITS FOR THE INSTALLATION OR CONSTRUCTION OF ANY OF THE WORK INCLUDED UNDER THIS CONTRACT, WHICH ARE REQUIRED BY ANY OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION, SHALL BE OBTAINED AND PAID FOR BY THE IRRIGATION SUBCONTRACTOR. PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON SITE, COPIES OF PERMIT SHALL BE SENT TO OWNER'S REPRESENTATIVE.
- DESIGN PLANS: THE LANDSCAPE IRRIGATION SUBCONTRACTOR SHALL SUBMIT DESIGN DRAWINGS FOR REVIEW AND APPROVAL 30 DAYS PRIOR TO INSTALLATION TO THE RAIN SENSORS AND PREPARED AT A SCALE SUITABLE FOR CONSTRUCTION. PLANS SHALL INCLUDE LEGEND, WATER SOURCE, POINT(S) OF CONNECTION, DESIGN OPERATING PRESSURE, AND FLOW RATE PER ZONE, AVERAGE APPLICATION RATE PER ZONE IN GALLONS PER MINUTE, WATERING SCHEDULE, LOCATIONS OF PIPE AND SLEEVES WITH SIZES INDICATED, CONTROLLERS, VALVES, SPRINKLERS, BACKFLOW PREVENTION DEVICE, ELECTRICAL SUPPLY, ROADWAYS, SIDEWALKS, STRUCTURES AND OTHER RELEVANT SITE CONDITIONS.
- PRIOR TO PURCHASING, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PROPOSED MATERIALS INCLUDING BUT NOT LIMITED TO PUMP, WELL, BACKFLOW PREVENTER, CONTROLLER, PIPE, FITTINGS, SLEEVES, VALVES, ETC.
- HEAD PLACEMENT SHOULD ALWAYS BE DONE WHILE TAKING INTO CONSIDERATION:
 - WHAT IS THE BEST FOR THE GROWTH AND MAINTENANCE OF THE PLANT MATERIAL.
 - MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE.
 - THE SPACING BETWEEN HEADS SHALL NOT EXCEED 80% OF THE DIAMETER FOR HEADS SPACED ON A SQUARE PATTERN OR 60% OF THE DIAMETER FOR HEADS SPACED ON A TRIANGULAR PATTERN.
- AUTOMATIC CONTROL TIMER, PUMP/WELL ASSEMBLY, BACKFLOW PREVENTER, AND RAIN SENSOR LOCATIONS TO BE VERIFIED WITH OWNER'S REPRESENTATIVE.
- FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWING MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED, BY THE OWNER AND/OR OWNER'S REPRESENTATIVE, NOT TO BE IN CONFORMITY WITH THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. IF A QUESTION SHOULD ARISE AS TO THE BEST WAY TO COMPLETE A FIELD ALTERATION, CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL.
- THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, DRIP IRRIGATION ARRAYS AND VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES, AND COMPACTED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE PIPE. THE BOTTOM OF TRENCHES SHALL BE FREE OF ROCK OR OTHER SHARP EDGED OBJECTS. MINIMUM COVER SHALL BE AS FOLLOWS: PRESSURE MAINLINE 24" AT TOP OF THE PIPE TO FINISH GRADE. LATERAL PIPING 12" AT TOP OF PIPE FROM FINISH GRADE. SLEEVING UNDER ROADWAY 36" AT TOP OF PIPE FROM FINISH GRADE.
- THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE IRRIGATION EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOT BALLS, LIGHTS, BOLLARDS, FENCES, ETC.
- OPEN CUTS IN ASPHALT AND WALKS ARE NOT PERMITTED. TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC. ALL TRENCHES SHALL BE CLOSED AT THE END OF EACH WORKDAY.
- SLEEVES UNDER ROADWAYS AND SIDEWALKS ARE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR AND SHALL BE INSTALLED, IF POSSIBLE, PRIOR TO ANY PAVING. SLEEVING DEPTH TO BE A MINIMUM OF 36" FROM TOP OF PIPE TO FINISHED GRADE BELOW ALL ROADWAYS. SLEEVING BENEATH SIDEWALKS SHALL BE LOCATED AND PROVIDED BY THE IRRIGATION CONTRACTOR. SLEEVING SIZES TO BE INSTALLED PER PLANS OR TWO TIMES LARGER THAN THE PIPE TO BE PLACED INSIDE THE SLEEVE, WHICHEVER IS GREATER. SLEEVING MATERIAL TO BE SCHEDULE 40 PVC. SLEEVE ALL WIRE CROSSINGS EITHER IN CONDUIT OR IN SCHEDULE 40 PVC PIPE (IF CONTROL WIRE IS DIRECT BURIAL).
- ALL TRENCHES WITHIN FIFTEEN FEET (15') OF EXISTING TREES TO BE HAND EXCAVATED TO AVOID CONFLICTS WITH TREES.
- NO ROOTS SHALL BE CUT WITHIN A FIFTEEN FOOT (15') RADIUS OF ALL EXISTING TREES. IRRIGATION PIPES AND CONDUIT SHOULD BE DIRECTIONAL BORED WITHIN THIS AREA.
- CONTRACTOR SHALL COORDINATE ELECTRICAL AND WATER REQUIREMENTS AND POINT OF CONNECT WITH OWNER'S REPRESENTATIVE.
- ALL PIPE SHALL BE SIZED SO AS NOT TO EXCEED 5 FPS.
- INITIAL BACKFILL ON PVC LINE SHALL BE PULVERIZED NATIVE SOIL, FREE OF FOREIGN MATTER. SOIL OR SAND WITHIN 4" OF UNDERGROUND PIPING SHALL BE CLEAN. PLANT LOCATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER AND PIPE LOCATIONS. THE CONTRACTOR SHALL COORDINATE THE PLACING OF THE SPECIMEN TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.
- RECORD DRAWINGS: AFTER FINAL ACCEPTANCE OF THE COMPLETED INSTALLATION, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF COMPLETE, REPRODUCIBLE, RECORD DRAWINGS FOR SUBMITTAL TO THE OWNER. PLANS SHALL INCLUDE ANY FIELD CHANGES OR DEVIATIONS FROM THE ORIGINAL, APPROVED DESIGN DOCUMENTS WITH TWO SCALED POINTS OF REFERENCE FOR EACH ITEM.
- CONTRACTOR SHALL SUPPLY ZONE MAP, PRECIPITATION RATES, ANY KEYS, OPERATING MANUALS, WARRANTIES, COPY OF THE CONTROLLER SCHEDULE, AND EXACT EQUIPMENT PARTS BREAKOUTS WITH MODEL NUMBERS, ETC IN A 3-RING BINDER TO OWNER'S REPRESENTATIVE UPON COMPLETION OF THE PROJECT.
- THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC. THE LOCATIONS OF THE EQUIPMENT SHALL BE COORDINATED IN THE FIELD, AND ADJUSTED AS NECESSARY TO AVOID CONFLICTS, AND TO REACT TO FIELD VARIABLES. DUE TO SMALL SCALE OF DRAWINGS, IT IS OFTEN NECESSARY TO SHOW PIPING OR OTHER ELEMENTS OUTSIDE RIGHTS-OF-WAY OR IN PAVEMENT AREAS. THE INSTALLATION OF ALL PIPING AND OTHER EQUIPMENT SHALL BE IN PREVIOUS AREAS AND WITHIN RIGHTS-OF-WAY UNLESS IT IS SPECIFICALLY NOTED TO THE CONTRARY.

ELECTRICAL SUPPORT FOR LANDSCAPE IRRIGATION SYSTEM:

- FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS REQUIRED AND INSTALL, PLACE IN OPERATION AND FIELD TEST ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE ELECTRICAL FACILITIES REQUIRED FOR CONTROL WIRING FOR THE UNDERGROUND ELECTROMECHANICALLY CONTROLLED IRRIGATION SYSTEM, COMPLETE, AND IN STRICT ACCORDANCE WITH THIS SECTION OF THE SPECIFICATIONS, THE APPLICABLE DRAWINGS, AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT.
- THE CONTROLLERS FOR THE IRRIGATION VALVES SHALL BE INSTALLED AND WIRED, COMPLETE UNDER THIS SECTION. THE ELECTRICAL CONTRACTOR SHALL BRING WIRING AND EQUIPMENT TO A LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE FOR THE CONTROL PANELS, AND SHALL PROVIDE 110 VOLT CONNECTION FROM THE POWER SOURCE TO THE CONTROLLERS. (THE LOW VOLTAGE CONTROL WIRING SHALL BE RUN UNDERGROUND TO THE RESPECTIVE REMOTE VALVES BY THE IRRIGATION CONTRACTOR).
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING AND VERIFYING THE IRRIGATION CONTROLLERS TO BE OPERATIONAL. THE IRRIGATION CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR PROVIDING A FULLY OPERATIONAL SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE IRRIGATION CONTRACTOR, GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS.
- QUALITY ASSURANCE: ALL WORK SHALL BE PERFORMED BY AN ELECTRICIAN LICENSED IN THE STATE OF FLORIDA AND ALL WORK SHALL COMPLY WITH APPLICABLE NFPA REQUIREMENTS.
- MATERIALS: ALL MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - UNDERGROUND CONDUIT: SHALL BE RIGID SCHEDULE 80 PVC, EQUAL TO TYPE 80 HEAVY WALL RIGID PVC-CONDUIT SIZED TO PROVIDE EASY WIRE PULL WITH A MIN. 1 INCH INSIDE DIAMETER. ALL JOINTS SHALL BE SOLVENT WELDED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. CONDUIT FITTINGS, ELBOWS, SWEEPS AND CEMENT SHALL BE PRODUCED BY THE SAME MANUFACTURER.
 - CONDUIT FOR 120 AND 277 VOLT CIRCUITS SHALL BE SCHEDULE 80 ELECTRICAL CONDUIT.
 - RIGID METAL CONDUIT: EXPOSED CONDUIT SHALL BE GALVANIZED RIGID METAL CONDUIT INSTALLED WITH CAST METAL FITTINGS.
 - CONDUCTORS FOR LOW VOLTAGE CONTROL CIRCUITS (BELOW 24V); ALL WIRING USED FOR INTERCONNECTING THE AUTOMATIC REMOTE CONTROL VALVES FOR IRRIGATION WITH THE AUTOMATIC CONTROLLERS SHALL BE SINGLE STRANDED OR SOLID COPPER CONDUCTORS WITH TYPE UF, 600 VOLT INSULATION WHICH SHALL BEAR THE UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE.
 - INSULATION SHALL BE 4/64 INCH THICK MINIMUM COVERING OF AN APPROVED THERMOPLASTIC COMPOUND FOR POSITIVE WATERPROOF PROTECTION OF SIZE 12 THROUGH AND INCLUDING SIZE 10 AWG.
 - WIRE CONNECTORS: CONNECTIONS TO REMOTE CONTROL IRRIGATION VALVES AND ALL SPLICES IN THE WIRING FOR SUCH VALVES SHALL BE MADE WITH WATERPROOF CONNECTORS AND SEALING CEMENT EQUAL TO RAIN BIRD SNAP-TITE CONNECTORS, MODEL ST-43.
 - ALL VALVE CONTROL WIRES SHALL BE MINIMUM NO. 14 GAUGE UF, AND ALL COMMON GROUND WIRES SHALL BE MINIMUM NO. 14 GAUGE UF, COLOR CODED USING WHITE. ALL CONTROL WIRING SHALL BE COLOR CODED USING WHITE FOR THE COMMON WIRE AND SELECTED COLORS FOR THE CONTROL WIRES. GREEN GROUND WIRE SHALL NOT BE USED. ALL SPLICE CONNECTIONS SHALL BE MADE IN A JUNCTION BOX AND PULL BOX MARKED ON SHOP DRAWINGS FOR ACCESSIBILITY. ALL AREAS OF 90 DEGREE TURNS SHALL BE MADE WITH ELECTRICAL SWEEP ELBOWS.
 - MISCELLANEOUS DEVICES: MISCELLANEOUS FITTINGS AND DEVICES NOT COVERED IN THE ABOVE SPECIFICATIONS SHALL BE AS REQUIRED FOR A COMPLETE INSTALLATION.

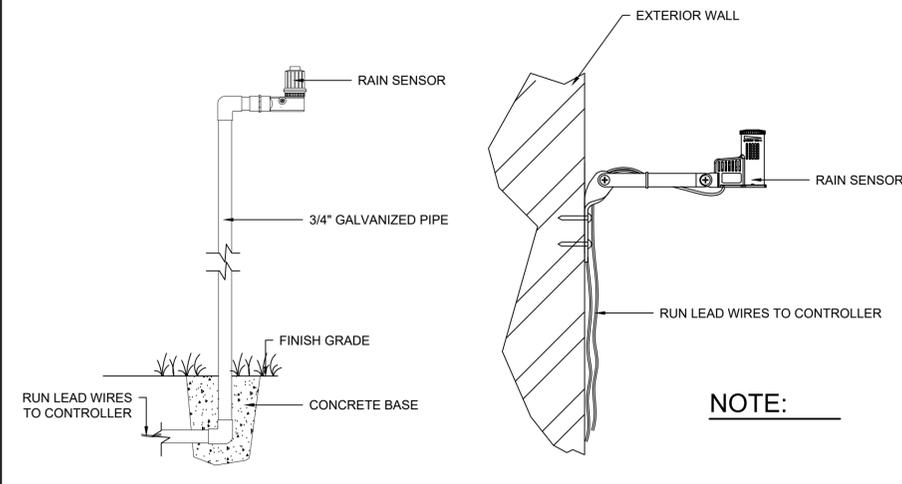
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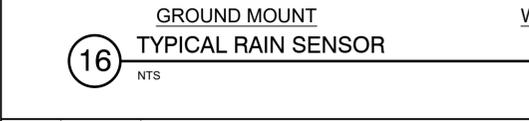
ON THE DATE ADJACENT TO THE SEAL.

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HALFF ASSOCIATES, INC.
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LAURA M. DUPLAIN, PLA NO. 6667408



NOTE:



No.	Date	Issue / Revision
16		NTS

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FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

DWG NO.
IR-503
SHEET NO.

IRRIGATION NOTES

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.