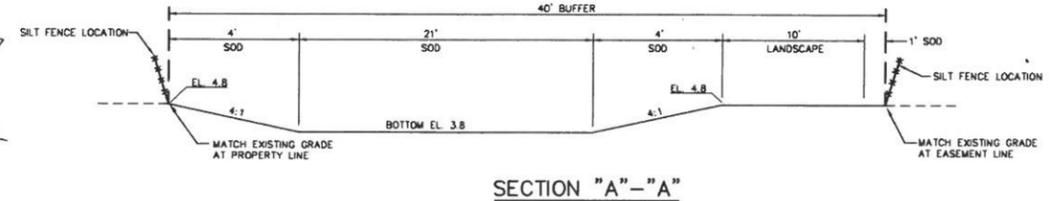
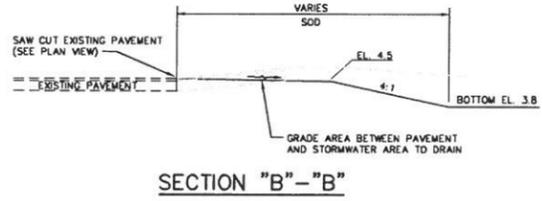


SITE DATA

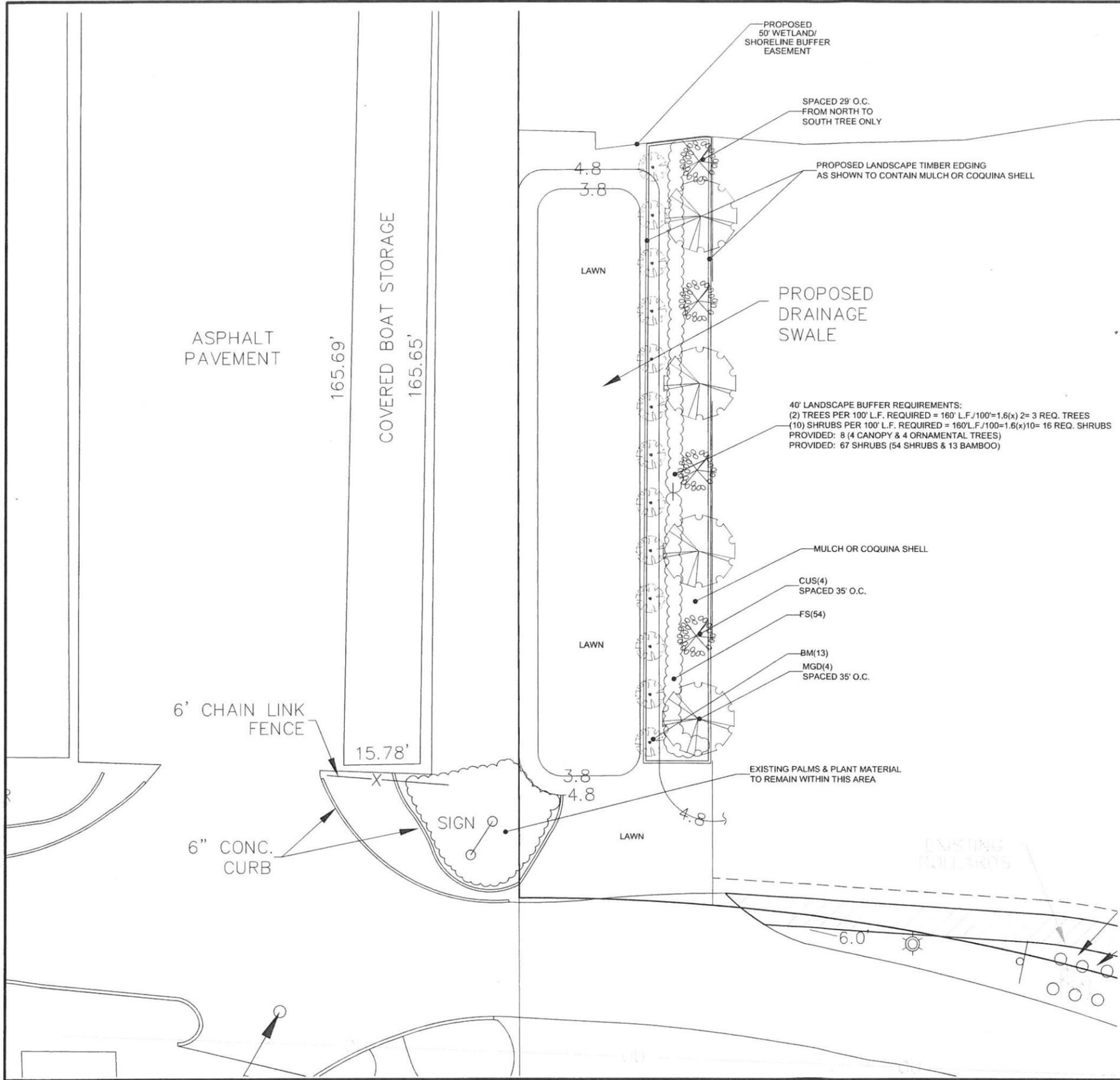
EXISTING FUTURE LAND USE: LOW DENSITY RESIDENTIAL
EXISTING ZONING: R-1
PROPOSED USE: LANDSCAPE BUFFER AND DRAINAGE
TOTAL PROJECT AREA: 0.15 ACRES

GENERAL NOTES

1. SCS SOIL TYPE: BB TURNBULL VARIANT, SAND - HYDROLOGIC GROUP C
2. TOPOGRAPHIC SURVEYS PERFORMED BY MARK DOWST AND ASSOCIATES, INC., PROJECT NO. 1108, DATED 07-13-07.
3. ELEVATIONS REFER TO N.G.V.D. OF 1929 PER D.N.R. BENCHMARK NO. R-138, PUBLISHED ELEVATION 14.05 FEET.
4. THE LOCATION OF ALL EXISTING UTILITIES AND SITE CONDITIONS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM BEST INFORMATION AVAILABLE, AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY 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 RELOCATION OF UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL COOPERATE WITH THE RESPECTIVE UTILITY COMPANIES DURING RELOCATION OPERATIONS.
5. AREAS WITHIN THE PUBLIC RIGHT OF WAY AND OFFSITE WHICH HAVE BEEN DISTURBED BY CONSTRUCTION SHALL BE CLEARED OF ALL DEBRIS, REGRADED, AND SOODED SO AS TO RESTORE THE AREA TO A STABILIZED AND PLANTED STATE.
6. ALL SITEMARK MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA D.O.T. STANDARD SPECIFICATIONS.
7. THE ONSITE DRAINAGE FACILITIES AND OTHER IMPROVEMENTS WILL BE MAINTAINED BY THE OWNER OR ITS SUCCESSORS AND ASSIGNS.
8. THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO PREVENT ONSITE EROSION AND SEDIMENT FROM LEAVING SITE DURING CONSTRUCTION. AT COMPLETION OF CONSTRUCTION, ALL NON-PAVED AREAS SHALL BE LANDSCAPED OR SOODED.
9. TAX PARCEL NUMBERS: 3430-00-01-0022
10. OWNER: INLET HARBOR, INC. 133 INLET HARBOR ROAD PONCE INLET, FLORIDA



PROJECT NO.	1108	1	of	4
DATE	02-11-16	MSD	REVISED PER CITY COMMENTS	
NO.	1	DATE	12-10-15	DATE
APPR.		CHECKED	MSD	BY
DESIGNED	MSD	DRAWN	MATTHEW	
MARK DOWST & ASSOCIATES, INC.				
ENGINEERS • PLANNERS • SURVEYORS				
535 N. HALIFAX AVENUE, SUITE # 100 • DAYTONA BEACH, FLORIDA 32118 • (386) 258-7999				
SCALE: 1" = 10'				
BUFFER DRAINAGE PLAN				
40' BUFFER AREA				
PONCE INLET, FLORIDA				



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 FEB 17 2016

REVISED

PLANT LIST:

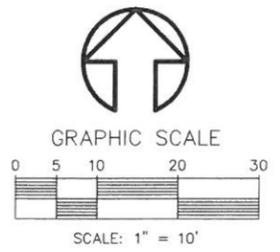
QUAN.	KEY	BOTANICAL/Common NAME	DESCRIPTION
13	BM	Bambusa malingensis SEABREEZE BAMBOO	10' o.a. ht.; 7-10 canes min. 7 gal. 10' o.c.
4	CUS	Coccoloba uvifera SEAGRAPE STD.	8'ht.x 3' spr.; Spaced at 35' o.c. 1.5" DBH min. 30 gal. Single Trunk
4	MGD	Magnolia grandiflora 'D.D. Blanchard' D.D. BLANCHARD MAGNOLIA	18'ht.x 6'spr.; Spaced at 35' o.c. 2.5" DBH min. 200 gal.
54	FS	Forestiera segregata FLORIDA PRIVET	20'ht.x 18" spr. 3 gal. 30" o.c. solid even sod

GENERAL NOTES:

- The Landscape Contractor is to locate and verify all underground and overhead utilities prior to beginning work. Contact proper utility companies and / or General Contractor prior to digging for field verification. The City shall not be responsible for any damages to utility or irrigation lines.
- Landscape Contractor is to verify all current drawings and check for discrepancies and bring to the attention of the Landscape Architect prior to commencing with the work.
- All unattended and unplanted tree pits are to be properly barricaded and flagged during installation.
- All planting plans are issued as directives for site layout. Any deviations and site changes are to be brought to the attention of the Landscape Architect for clarification prior to installation.
- In the event mechanical equipment is installed on the site in a different area than shown on the plans or if mechanical equipment is added that is not shown on the plans it shall be fully screened by either fencing or vegetation or a combination of both.

PLANTING NOTES:

- (See plant specification and details for additional standards)
- All plant material is to be Florida Number 1 or better pursuant to the Florida Department of Agriculture's Grades and Standards for Nursery Plants.
- All trees within lawn areas shall have a 48" diameter mulch ring.
- Sod is to be grade "A" weed free.
- All areas marked "LAWN" shall be sodded with St. Augustine 'Floradam' solid sod. See limit on plan. All areas marked 'Bahia Grass' shall be sodded with Paspalum notatum. All sod is to be laid level, tight, and cut even along planting beds.
- All plants are to be top dressed with a minimum of 3"-4"ch layer of shredded hardwood mulch or coquina shell, Grade A or equal.
- Planting plans shall take precedence over plant list in case of discrepancies.
- No changes are to be made without the prior consent of the Landscape Architect and Owner. Additions and / or deletions to the plant material must be approved by the project manager.
- Landscape Contractor is responsible for providing their own square footage takeoffs and field verifications for 100% sod coverage for all areas specified.
- All landscape areas are to be provided with automatic sprinkler system which will provide 100% coverage, and 50% overlap.
- All lawn located in parking islands is to be set flush with top of curb. Provide adequate soil to within 3" of top of curb.
- Trees are to be planted within parking islands after soil is brought up to grade. Deeply set root balls are not acceptable. (REFER TO PLANTING DETAILS)
- A clear zone free of obstruction must be maintained around all fire hydrants. The clear zone must be 7'-6" in front of and to the sides of the hydrant, with a 4' clear zone to the rear. Fire Department connections shall have a clear zone of 7'-6" in front & to the sides.



MARK DOWST & ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 536 N. HALIFAX AVENUE, SUITE # 100 • DAYTONA BEACH, FLORIDA 32118 • (386) 258-7999

PROJECT NO. 1108 LA-1

LANDSCAPE PLAN
 40' BUFFER AREA
 PONCE INLET, FL

NO.	DATE	APPR.	REVISED PER CITY COMMENTS
2	02-16-16	CSC	
1	02-11-16	CSC	

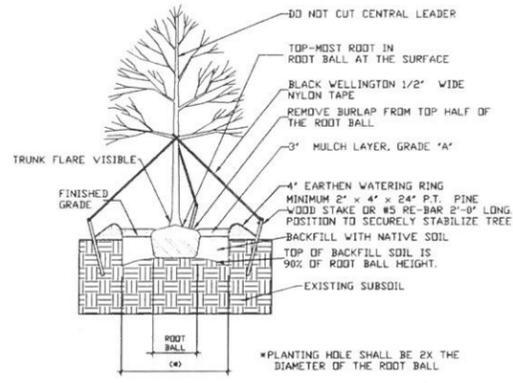
DESIGNED: CSC
 DRAWN: CSC
 CHECKED: RBT
 DATE: 12-10-15

1:10

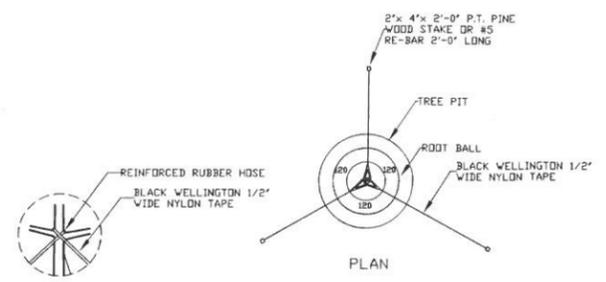
1108_SCREEN_LAND3

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FEB 17 2016

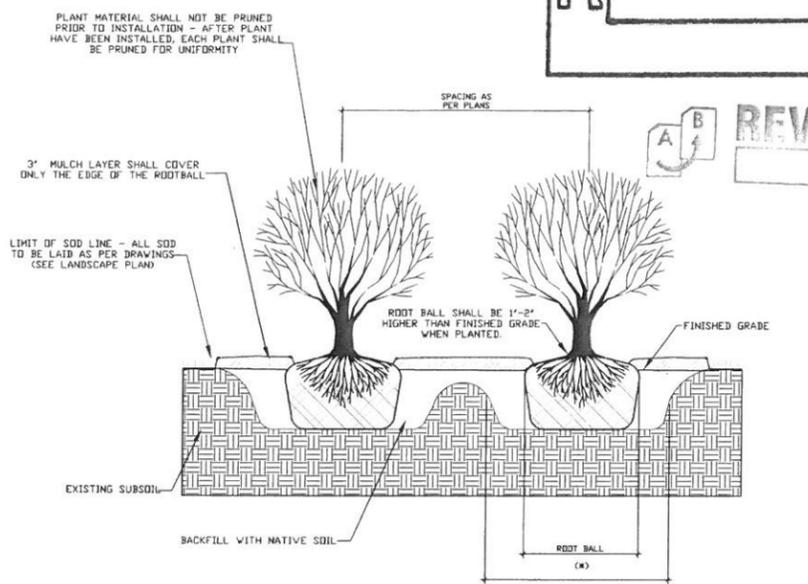
REVISED



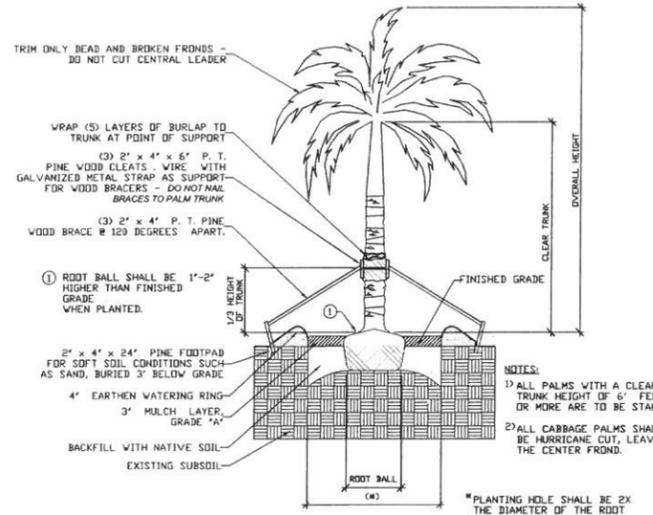
1 LARGE TREE PLANTING DETAIL



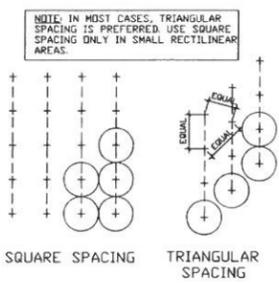
2 TYPICAL TREE GUYING DETAIL



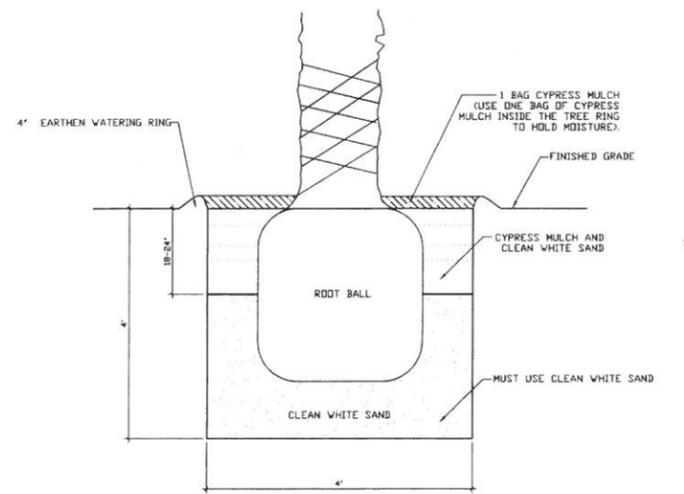
3 TYPICAL SHRUB PLANTING DETAIL



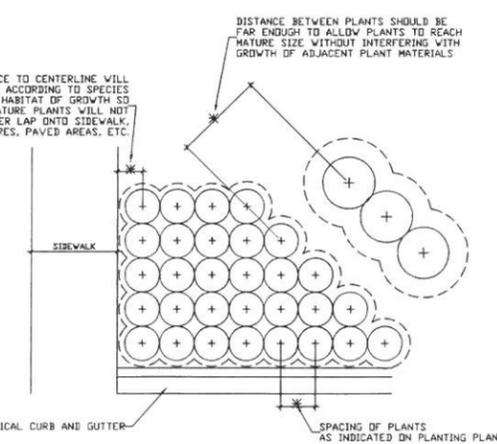
4 STRAIGHT TRUNK PALM DETAIL



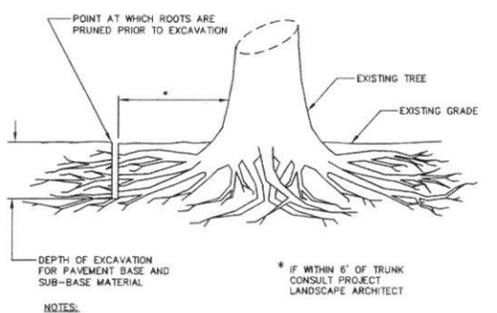
5 TYPICAL GROUND COVER PLANTING DETAIL



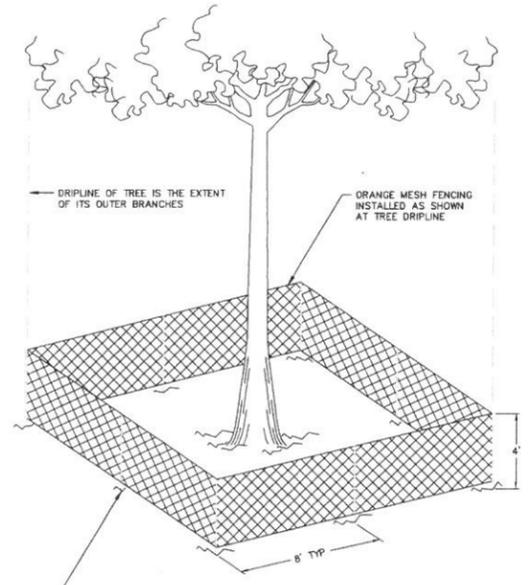
6 MEDJOO PALM INSTALLATION SCHEMATIC
(INFORMATION BY GROUNDWORKS)



7 TYPICAL CONTAINER SPACING



8 ROOT PRUNING DETAIL



9 TREE BARRICADE DETAIL

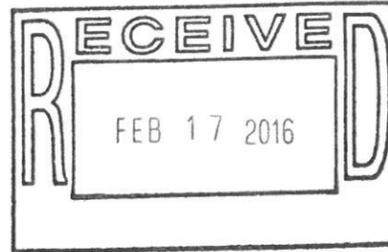
REVISION	DATE	APPR.	NO.

Mark Dowst & Associates, Inc.
Engineers • Planners • Surveyors
535 N. HALIFAX AVENUE, SUITE # 100 • DAYTONA BEACH, FLORIDA 32118 • (386) 258-7999
SCALE: N.T.S. DESIGNED: CSC DRAWN: CSC CHECKED: RBT DATE: 12-08-15

MARK DOWST & ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
535 N. HALIFAX AVENUE, SUITE # 100 • DAYTONA BEACH, FLORIDA 32118 • (386) 258-7999
SCALE: N.T.S. DESIGNED: CSC DRAWN: CSC CHECKED: RBT DATE: 12-08-15

LANDSCAPE DETAILS
40' BUFFER AREA
PONCE INLET, FLORIDA

PROJECT NO.
1108 LA-2
1108_LANDET

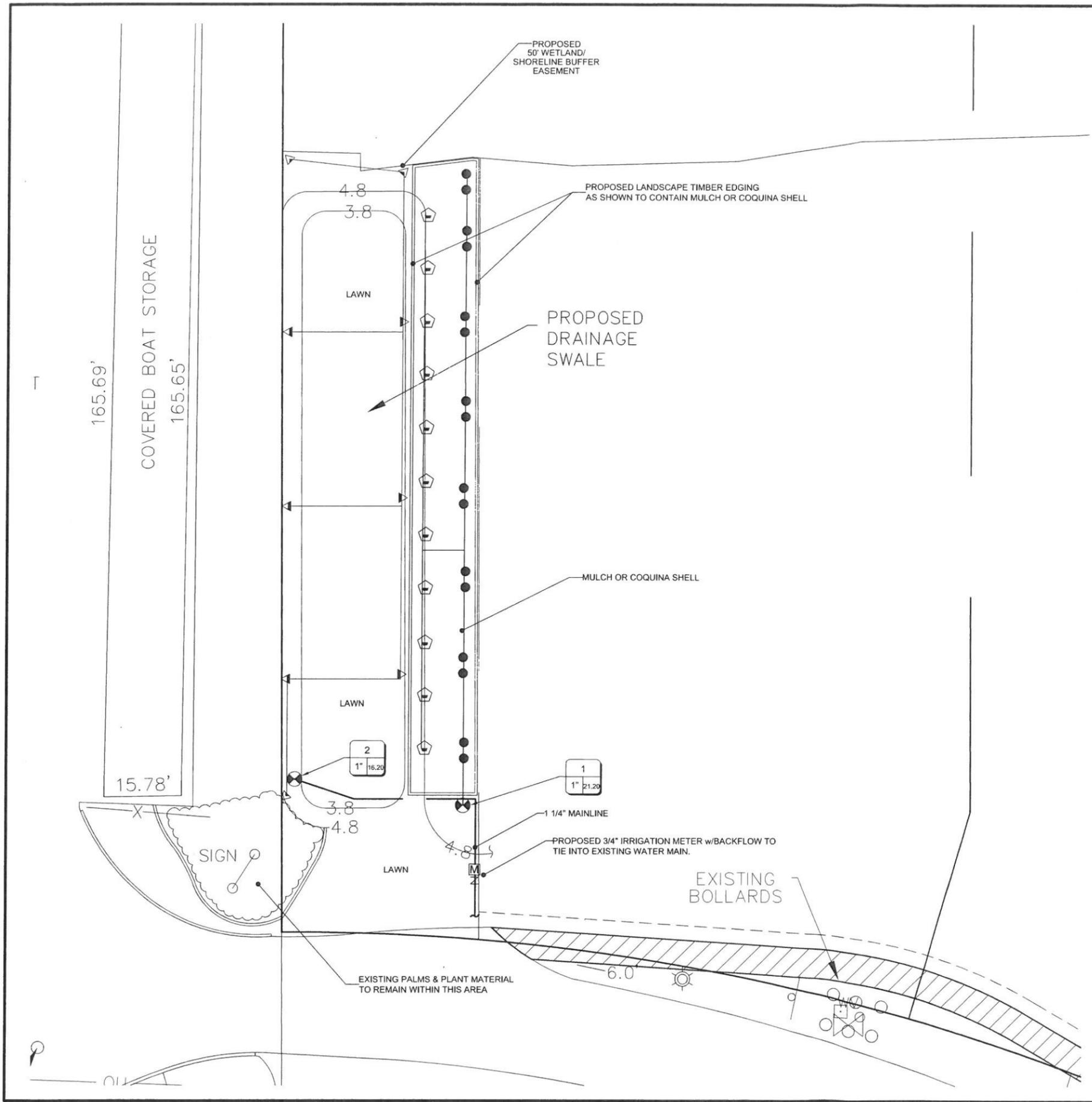


NO.	DATE	APPR.	REVISION
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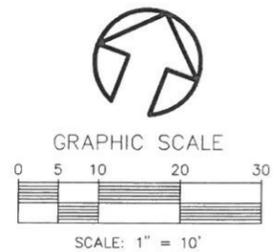
MARK DOWST & ASSOCIATES, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 535 N. HALIFAX AVENUE, SUITE # 100 • DAYTONA BEACH, FLORIDA 32118 • (386) 258-7999
 SCALE 1" = 10' DESIGNED CSC DRAWN CSC CHECKED RBT DATE 12-09-15

IRRIGATION PLAN
 40' BUFFER AREA
 PONCE INLET, FLORIDA

PROJECT NO. 1108 LA-3
 1108_SCREEN_IRRIG1

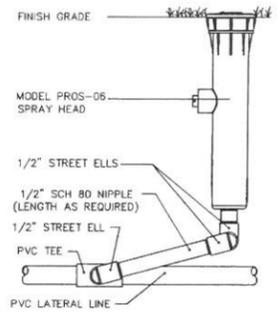


- IRRIGATION LEGEND:**
- TORO IRRIGATION 570Z PRX SERIES: MODEL# 570Z-6P-PRX (LAWN AREA) & 570Z-12P-PRX (PLANTING BEDS)
- HEAD SYMBOL: IRRIGATION DESCRIPTION:**
- ◻ PROPOSED SPECIAL PATTERNS - 9-SST (9'x18')
 - ◻ HUNTER IRRIGATION - PRO-SPRAY: MODEL# PROS-06-PRS30 (6" Pop-Up)
 - PROPOSED PCN BUBBLER (.50 GPM) - MODEL# 50
 - ◻ HUNTER IRRIGATION - PGP ROTOR: MODEL# PGP-ADJ (4" Pop-Up-LAWN AREAS) & PGP-(12" Pop-Up-PLANTING BEDS)
 - ▲▲ PROPOSED PGP NOZZLE 3 (QUARTER) & NOZZLE 6 (HALF); (25-35' Radius)
 - NEW SCHEDULE 40 PVC SLEEVE (SIZE AS NOTED)
 - NEW SCHEDULE 160 PVC LATERAL 3/4" MIN. (SIZE AS NOTED)
 - NEW SCHEDULE 40 PVC MAINLINE (1 1/4")
 - ⊙ PGV-101A (REFER TO PLAN)
 - ⊙ HUNTER PRO-C CONTROLLER MODEL# PC-300; 3 Stations (Plastic Cabinet)
 - ⊙ PROPOSED 3/4" IRRIGATION METER TO CONNECT TO EXISTING WATER MAIN
 - ⊙ PROPOSED REDUCED PRESSURE BACKFLOW PREVENTER (SIZE AS REQUIRED)
 - RS HUNTER MINI CLICK RAIN SWITCH IF NOT EXISTING OR OPERABLE

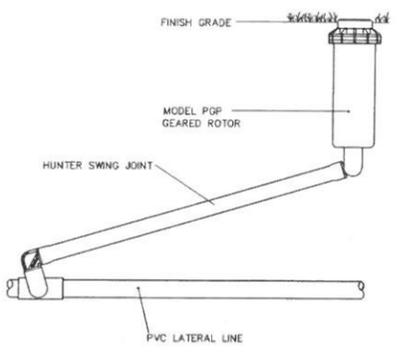


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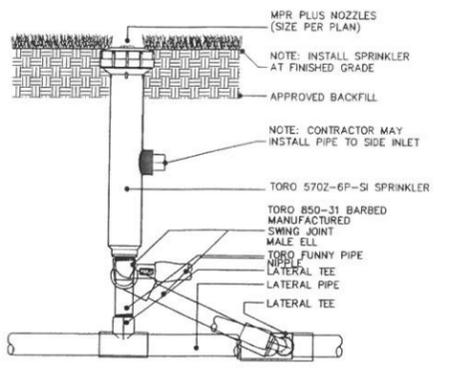
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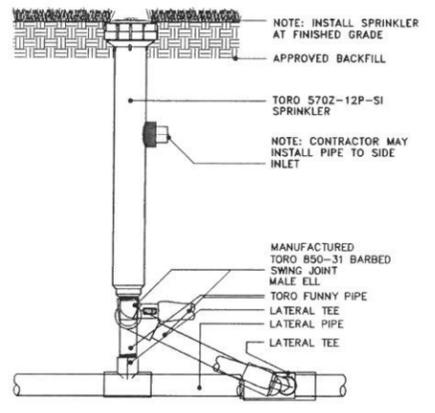
1 HUNTER PRO-SPRAY (PROS-06)



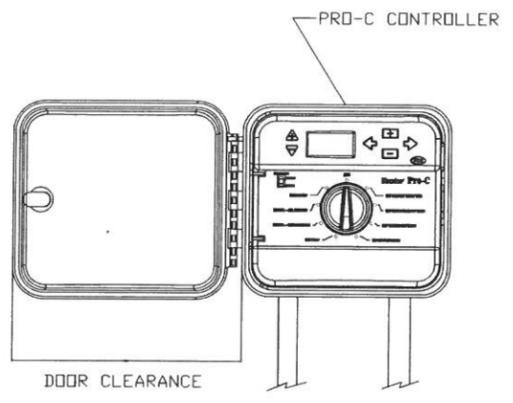
2 HUNTER PGP-SJ GEAR DRIVE



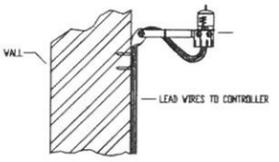
3 TORO 570Z-6P-SI



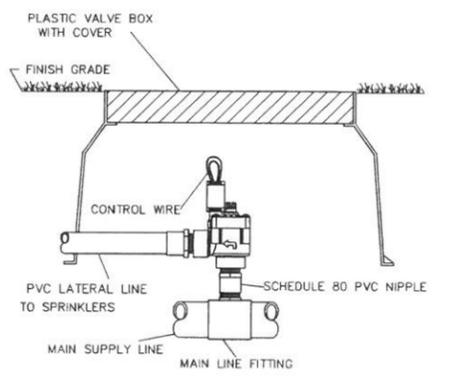
4 TORO 570Z-12P-SI



5 HUNTER PRO-C CONTROLLER (OUTDOOR)



6 HUNTER MINI CLICK



7 HUNTER PGVI-ANGLE

IRRIGATION NOTES:

1. THE ENTIRE SYSTEM TO BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES. CONTRACTOR TO SUPPLY AND INSTALL ALL CHECK VALVES, BACKFLOW PREVENTERS, PERMITS ETC., AS REQUIRED BY THESE CODES EVEN IF THOSE ITEMS ARE NOT SHOWN ON THE DRAWING.
2. ALL MAIN LINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER AND ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
3. PIPE SIZES SHALL CONFORM TO THOSE ON THE DRAWINGS. THE SMALLEST LATERAL PIPE SIZE TO A SINGLE SPRAY OR ROTOR HEAD SHALL BE 3/4".
4. ALL REMOTE CONTROL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES.
5. ALL RISERS SHALL BE STAKED WITH A STEEL ANGLE AND SECURED WITH UV RESISTANT PLASTIC CABLE TIES. RISERS AND ANGLE SHALL BE PAINTED HUNTER GREEN.
6. ALL RISERS SHALL BE INSTALLED 12"-INCHES FROM ANY WALL AND A MINIMUM OF 18"-INCHES FROM ANY SIDEWALK, PATIO OR ROAD.
7. ALL LOW VOLTAGE WIRING TO BE #14 DIRECT BURIAL WIRE. COLORED RED FOR CONTROL WIRES AND WHITE FOR COMMON WIRES (UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS). NO CROSS CONNECTION BETWEEN CONTROLLERS SHALL BE ALLOWED. WIRE SPLICES SHALL BE MADE ONLY IN VALVE BOXES USING KING "ONE STEP" CONNECTORS AND SEALANT.
8. ANY PIPING OR VALVES SHOWN OUTSIDE THE PROPERTY LINE OR OUTSIDE OF A LANDSCAPE AREA IS SHOWN THERE FOR DESIGN CLARITY ONLY. ALL PIPING AND VALVES SHALL BE INSTALLED ON THE PROPERTY AND WITHIN LANDSCAPE AREAS.
9. FINAL LOCATION OF THE AUTOMATIC CONTROLLER(S) SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
10. ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION (BY OTHERS, NOT PART OF THIS CONTRACT). THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL CONNECTION FROM THE JUNCTION BOX TO ALL EQUIPMENT.
11. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES TO PROVIDE OPTIMUM COVERAGE WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS ETC. IN ORDER TO ACCOMPLISH THIS, THE CONTRACTOR MAY SUBSTITUTE VARIABLE ARC NOZZLES IN PLACE OF THE SPECIFIED FIXED ARC NOZZLES WHERE NECESSARY. PRESSURE COMPENSATING SCREENS MAY ALSO BE USED TO REDUCE SPRAY DISTANCE.
12. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
13. ALL SLEEVES UNDER SIDEWALKS TO BE BURIED 6"-12" BELOW WALK SURFACE.
14. MAIN LINE MUST BE INSTALLED PER PLAN. OTHER LOCATIONS WILL NOT BE ACCEPTED.
15. ALL SPRAY HEADS OR NOZZLES IN PLANTING BEDS TO BE PLACED ON RISERS (SCH. 40) OF APPROPRIATE HEIGHT TO PLANTING AND RISERS TO BE PAINTED HUNTER GREEN.
16. ALL HEADS IN OPEN LAWN AREAS TO BE MOUNTED ON SWING JOINTS.
17. ALL MATERIALS TO BE NEW. ALL PIPE TO BE CUT SQUARELY AND BURRS REMOVED. ALL PVC JOINTS TO BE MADE WITH THE USE OF CLEANER, PRIMER AND CLEAN SOLVENT WELD.
18. ALL WORK TO BE DONE IN GOOD WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
19. ALL LINE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ADJUST TRENCHING IN THE FIELD FOR EXISTING CONDITIONS, PLANTINGS AND STRUCTURES.
20. HEAD LOCATIONS ARE APPROXIMATE. CONTRACTOR TO MAINTAIN 100% COVERAGE WITH 50% OVERLAP.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND EXISTENCE OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY UTILITIES IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE AND SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES OR STRUCTURES.
22. THERE SHALL BE A ONE (1) YEAR GUARANTEE ON ALL PARTS AND LABOR FROM THE DATE OF FINAL ACCEPTANCE. AT THE END (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL CHECK AND ADJUST (IF NECESSARY) THE ENTIRE SYSTEM.
23. CONTRACTOR SHALL MARK STATIONS ON THE CONTROLLER PANEL TO CORRESPOND WITH THE ZONE NUMBERS ON THIS PLAN AND SET OPERATING SEQUENCE TO CORRESPOND TO THE NUMBERING.
24. ALL SLEEVES TO BE INSTALLED UNDER EXISTING ASPHALT OR WALKS TO BE INSTALLED BY DIRECTIONAL DRILL OR JACK & BORE UNDER THE PAVEMENT.
25. ALL VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE AND HAVE A MINIMUM OF 3"-INCHES OF CHIP ROCK INSIDE THE BOX AROUND THE VALVE FOR POSITIVE DRAINAGE.

MARK DOWST & ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS

536 N. HALIFAX AVENUE, SUITE # 100 • DAYTONA BEACH, FLORIDA 32118 • (386) 258-7999
SCALE N.T.S. DESIGNED CSC DRAWN CSC CHECKED CSC BY DATE 12-10-15

IRRIGATION DETAILS/NOTES

40' BUFFER AREA

PONCE INLET, FLORIDA

PROJECT NO. 1108	LA-4
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1108_IRRIGDET

NO.	DATE	APPR.	REVISION
1	02-16-16	CSC	REVISED PER PLANTING LAYOUT CHANGE