#### GENERAL NOTES

- 1. The contractor shall become familiar with the project site prior to bidding the work. The contractor shall field verify all existing conditions and location of proposed improvements prior to initiating any construction.
- 2. Location of all utilities and base information is approximate. contractor shall verify all underground utilities and obstructions prior to initiating work. Contractor shall be responsible for repair or replacement of any damage to existing elements above or below ground to its original condition and to the satisfaction of the owner's representative.
- 3. The owner's representative shall have the right, at any stage of the operations, to reject any and all work and material which, in their opinion, do not meet with the requirements of these plans and specifications.
- 4. Contractor shall verify all grades, dimensions, and existing conditions on the job site prior to start of construction and/or fabrication. Contractor shall notify owner's representative of any variations from the dimensions and conditions shown on these drawings.
- 5. Report any discrepancies between the construction drawings and field conditions to the owner's representative.
- 6. The contractor shall provide all necessary safety measures during construction operations to protect the public according to all applicable codes and recognized local practices.
- 7. The contractor shall coordinate access and staging areas with the owner's representative. The contractor shall maintain all existing erosion and sedimentation control measures during construction. Provide additional measures as necessary to minimize adverse impacts in accordance with all applicable federal, state, and local codes.
- 8. No substitutions shall be made without written consent of the owner's representative. During the course of this work, excess waste material shall be removed daily from the site.
- 9. The contractor shall be responsible for scheduling and coordination of work with other trades and the owner's representative.
- 10. The contractor shall notify all necessary utility companies 48 hrs minimum prior to digging for field verification of all underground utilities. Utility locating shall be scheduled by the contractor with owner's representative present.
- 11. Utilities to be located by flagging only; painting of hardscape areas is prohibited. Contractor shall be responsible for notifying utility locating companies of this requirement.
- 12. All existing site roads, parking lots, curbs, utilities, sewers, and other elements to remain shall be fully protected from any damage unless otherwise noted.
- 13. Not all items shown on this sheet appear in the construction documents. Contractor is responsible for obtaining ALL permits related to construction including, but not limited to: Building, Landscape, Irrigation and Right-Of-Way utilization permits.

#### TREE PROTECTION AND PRESERVATION NOTES

-Skinning and bruising of bark

- 1. Protect designated existing trees scheduled to remain against: -Unnecessary cutting, breaking, or skinning of roots
  - -Smothering of trees by stockpiling construction or excavation materials within protection barrier
- 2. Protection barriers (tree barricades) shall be plainly visible and shall create a continuous boundary around trees or vegetation clusters in order to prevent encroachment within the barricade.
- 3. For all trees to be preserved, see Tree Protection and Barricade Elevation detail
- 4. No grade changes shall be made within the protective barrier zones without prior approval.
- 5. The method of protection is to make certain that 50% of the area under the canopy dripline remains undisturbed (no grade change or root cut) and there shall be no disturbance to the root
- 6. General contractor shall be responsible for the replacement and mitigation costs of trees damaged beyond repair that have been identified as protected and preserved. If trees are harmed through lack of protection or through negligence on the part of the contractor, the contractor shall bear the burden of the cost of repair or replacement.
- 7. Root pruning shall be done by or under supervision of an ISA certified arborist, and meet or exceed ANSI A300 or approved tree care industry standards. A certified arborist must be onsite during the entirety of root pruning.
- 8. No root pruning shall be done within a distance of 3x the diameter the tree unless authorized by the arborist.
- 9. No more than 30% of the trees roots may be pruned.
- 10. A pruning trench shall be cleared in a way that exposes the roots while leaving them intact. Use hand tools or an air knife. Limits of trench to be determined by the arborist.
- 11. All roots outside of the protective barricade to be removed during the development shall be severed clean using a sharp tool to provide a clean cut. Roots shall be left with clean smooth ends and no ragged edges and a two-inch layer of mulch shall be applied over the surface of exposed roots during development within one hour of damage or exposure.
- 12. After pruning, tree roots shall be covered and kept moist. Fill pruning trench with topsoil and water daily for a period determined by the arborist.
- 13. See City of Miami Beach Sec. 46-62 for all tree preservation and protection requirements, root cutting, tree relocations and tree pruning.

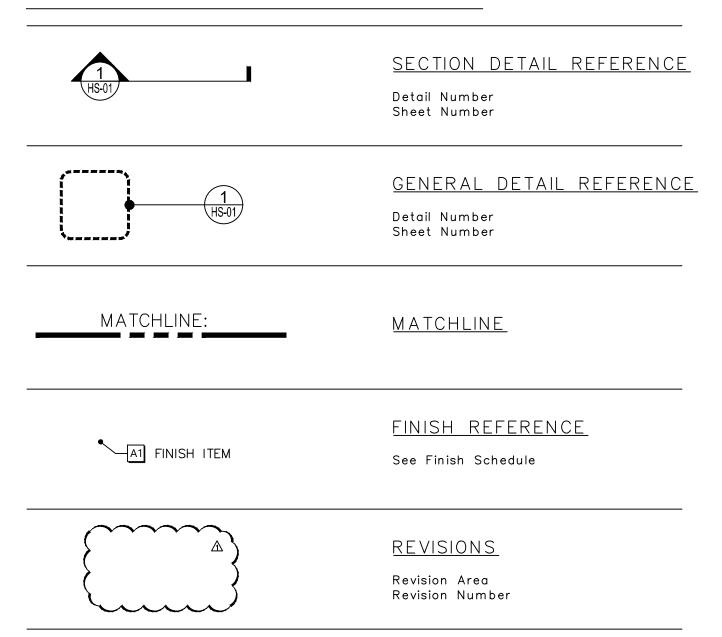
#### LANDSCAPE NOTES

- 1. The contractor shall review plans to become thoroughly familiar with surface and subsurface utilities.
- 2. The plant quantities shown on the landscape contract documents are for the convenience of the contractor. The contractor is responsible for verifying all quantities and reporting any discrepancies to the landscape architect for clarification prior to contract award and commencement of work.
- 3. All installation of plant material shall comply with applicable jurisdictional codes. The contractor is responsible for obtaining all permits associated with this work.
- 4. Prior to planting installation, the contractor shall confirm the availability of all the specified plant materials. Submit dated photographs of all tree material and specimen material as to the owner's representative for
- 5. All plant material sizes specified are minimum sizes. Container size shall be increased if necessary to provide overall plant size specified.
- 6. If plant material does not comply with the requirements as specified herein, the owner's representative reserves the right to reject such plants and require the contractor to replace rejected work and continue specified maintenance until re-inspected and found to be acceptable.
- 7. The contractor shall provide an approved planting soil mixture for all plant material. See specifications for requirements.
- 8. The contractor shall be responsible for stability and plumb condition of all trees and shrubs, and shall be legally liable for any damage caused by instability of any plant materials. Staking of trees or shrubs shall be done in accordance with plans and specifications.
- 9. The contractor shall insure adequate vertical drainage in all plant beds and planters. If inadequate vertical drainage is encountered, the contractor shall submit recommendations for providing adequate drainage to the owner's representative.
- 10. Peg sod on slopes greater than 3:1.
- 11. Contractor shall protect existing vegetation to remain as shown on drawings or by means approved by the owner's representative.
- 12. Contractor to clean, prune, and shape edges of existing vegetation as directed by owner's representative. Create smooth bed lines around existing vegetation.
- 13. The contractor shall bear all costs of testing of soils, amendments, etc. associated with the work. See specifications for additional testing requirements.
- 14. Contractor shall field—adjust location of plant material prior to initiating installation for the review and approval of the owner's representative.
- 15. All plant material shall be in full and strict accordance with Florida No. 1 grade, according to the "Grades and Standards for Nursery Plants" published by the Florida Department of Agriculture and Consumer Services.
- 16. All planting beds shall be top—dressed with a 3" layer of dark brown mulch. Contractor to submit sample to owner for approval.
- 17. Contractor shall coordinate all planting work with irrigation work. Contractor shall be responsible for all hand watering as required to supplement irrigation watering and rainfall.
- 18. Contractor shall be responsible for hand watering in all planting areas, regardless of the status of existing or proposed irrigation.
- 19. Contractor shall re-grade all areas disturbed by plant removal, relocation, and/or installation work.
- 20. Contractor shall replace (by equal size and quality) any and all existing plant material disturbed or damaged by plant removal, relocation, and/or installation work.
- 21. Maintenance shall begin after each plant has been installed and shall continue until the project has been deemed substantially complete. Maintenance includes watering, pruning, weeding, mulching, replacements of sick or dead plants, and any other care necessary for the proper growth of the plant material.
- 22. Upon completion of all landscaping, an inspection for substantial completion of the work shall be held. The contractor shall notify the owner's representative for scheduling the inspection at least seven (7) days prior to the anticipated inspection date.
- 23. Contractor shall submit written guarantee of survivability of all plant material for a period of one year from date of substantial completion.
- 24. Contractor must review and accept, approve all graded areas prior to the commencement of planting.
- 25. Trees adjacent to buildings should be planted at least the diameter of the tree canopy or a min. of 10'-0''(whichever is greater) away from the building wall.
- 26. Contractor is responsible for the repair of any existing lawn areas or planting areas disturbed during the construction process.
- 27. Contractor to follow Florida friendly guidelines for planting and maintenance.
- 28. The landscape contractor is responsible for coordinating at least 48 hours in advance with the City of Miami Beach (Greenscape, Parks and Recreation and Urban Forestry) for the inspection of all planting materials prior to delivery and installation.

#### HARDSCAPE NOTES

- 1. All dimensions are taken from center of wall, face of curb and/or centerline of roads at 90 degree, angles, unless otherwise noted on plan. The dimensions are shown for approximate line and all radii and curves are to have continuous and smooth transitions without abrupt changes or bends.
- 2. All forms and alignment of paving, pilasters and walls shall be inspected and approved by the owner's representative prior to pouring (give a min. of 48 hrs. notice).
- 3. For site grading and drainage, see civil engineer's plans
- 4. Contractor shall verify location of all surface and subsurface utilities prior to construction.
- 5. These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the owner's representative.
- 6. Contractor must check all dimensions, framing conditions and site conditions before starting work. Owner's representative shall be notified immediately of any discrepancies or possible deficiencies.
- 7. Do not willfully install or construct items as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the owner's representative. In the event this notification is not performed, the contractor shall assume full responsibility for all revisions necessary.
- Conditions not specifically shown shall be constructed similar to the details for the respective materials.
- The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor. Observation visits to the job site by the owner's representative do not include inspection of construction methods and for safety conditions at the work site. These visits shall not be construed as continuous and detailed inspections.
- 10. Contractor shall refer to soils engineer's report for percentages of compaction required for all concrete flatwork and footings.
- 11. All construction and workmanship shall conform to the current uniform and Florida Building Code.
- 12. All concrete walks shall not exceed a slope of 1:20, and cross slopes on all concrete sidewalks shall not exceed 2%. If the sidewalk does exceed this slope, ADA compliant handicap ramps will be required.
- 13. All handicap ramps shall not exceed a 1:12 slope and shall meet all ADA requirements for landings and handrails.
- 14. Site furnishings shall be installed per manufacturer's recommendations, or as recommended in the drawings. Details provided in the drawings for anchoring and furnishings are provided for intent only. It shall be the contractor's responsibility to coordinate with the manufacturer & submit anchoring details for approval by owner's representative prior to installation.
- 15. The contractor shall stake and layout all improvements using the geometric data provided. It is the contractor's responsibility to completely stake and check the alianment both vertical and horizontal. and to insure adequate positioning prior to the installation of any improvement. The contractor shall notify the owner immediately in writing if any discrepancies are found and not proceed with the work until directed.
- 16. Refer to civil engineer's drawings for roadway pavement grading, curb information, all site drainage/grading information and handicap ramp detailing
- 17. Unless otherwise expressly approved in writing by the owner all control joints shall be hand tooled. Saw cutting will not be acceptable.

### STANDARD DRAWING SYMBOLS



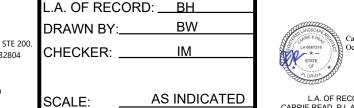
PROJECT:

**BRITTANY BAY PARK RENOVATION** 







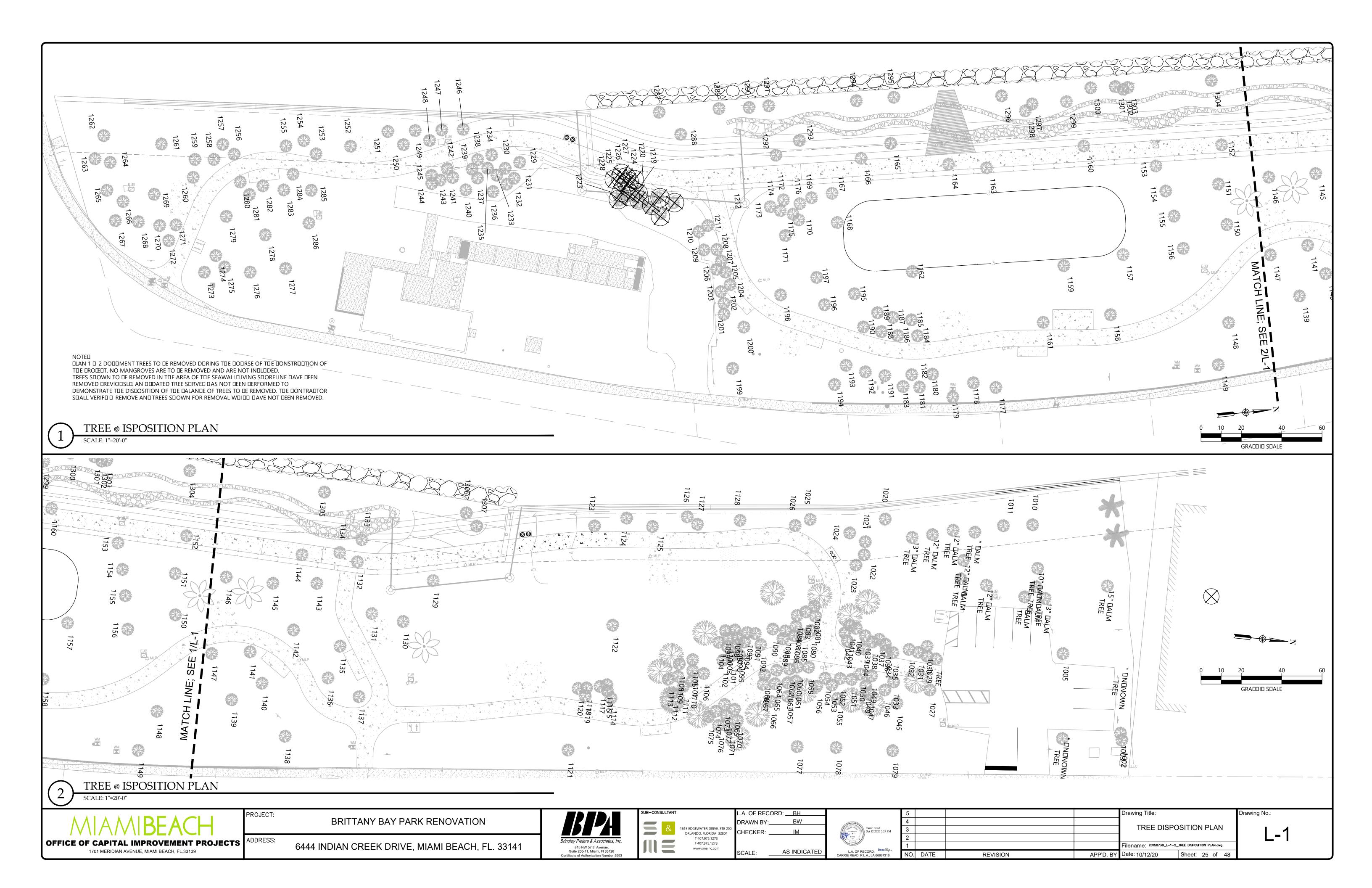




Drawing Title: SENERAL NOTES AND SYMBOLS ilename: 20150738\_L-0\_GENERAL NOTES AND SYMBOLS.dwg NO. DATE REVISION APP'D. BY Date: 10/12/20 Sheet: 24 of 48

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Orawing No.:



			Tree Da	ta Table							
						Canopy Area					Canopy Area
Tree #	DBH (in.)	Common Name	Botanical Name	Height (ft.)	Spread (ft.)	(sq. ft.) (calculated)	Condition	Regulated Tree	Specimen Tree	Disposition	(sq.ft.) to Mitigate
1001	7.5	Tallow Tree	Pongamia pinnata	20	20	314	Fair	No		Remain	N/A
1002	3.5	Silver Buttonwood	Conocarpus erectus var. sericeus	7	5	20	Poor	110		Remain	N/A
1003	11	Silver Buttonwood	Conocarpus erectus var. sericeus	25	30	707	Fair			Remain	N/A
1004	12.5	Tallow Tree	Pongamia pinnata	25	35	962	Poor	No	Yes	Remain	N/A
1004	13.5	Tallow Tree	Pongamia pinnata	25	30	707	Fair	No	Yes	Remain	N/A
		Washingtonia Palm	Washingtonia robusta	1		707				<del> </del>	
1006	13	<u> </u>		40	-		Fair	No	Yes	Remain	N/A
1007	12.5	Washingtonia Palm	Washingtonia robusta	30	-		Fair	No	Yes	Remain	N/A
1008	10	Washingtonia Palm	Washingtonia robusta	25	-		Fair	No		Remain	N/A
1009	7	Cabbage Palm	Sabal palmetto	25	-		Fair			Remain	N/A
1010	16	Royal Palm	Roystonea regia	35	-		Fair		Yes	Remain	N/A
1011	16	Royal Palm	Roystonea regia	40	-		Fair		Yes	Remain	N/A
1012	11	Cabbage Palm	Sabal palmetto	23	-		Fair			Remain	N/A
1013	11.5	Cabbage Palm	Sabal palmetto	25	-		Fair			Remain	N/A
1014	11.5	Cabbage Palm	Sabal palmetto	25	-		Fair			Remain	N/A
1015	11.5	Cabbage Palm	Sabal palmetto	25	-		Fair			Remain	N/A
1016	9	Cabbage Palm	Sabal palmetto	20	-		Fair			Remain	N/A
1017	10	Cabbage Palm	Sabal palmetto	25	_		Fair			Remain	N/A
1017	10	Cabbage Palm	Sabal palmetto	20			Fair			<del>                                     </del>	N/A
		Cabbage Palm	<u>'</u>	<del> </del>	-					Remain	
1019	11		Sabal palmetto	25	-		Fair		.,	Remain	N/A
1020	12	Cabbage Palm	Sabal palmetto	22	-		Fair		Yes	Remain	N/A
1021	11	Cabbage Palm	Sabal palmetto	20	-		Fair			Remain	N/A
1022	12	Cabbage Palm	Sabal palmetto	30	-		Fair		Yes	Remain	N/A
1023	15	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1024	9	Cabbage Palm	Sabal palmetto	20	-		Fair			Remain	N/A
1025	11	Cabbage Palm	Sabal palmetto	25	-		Fair			Remain	N/A
1026	12	Cabbage Palm	Sabal palmetto	30	-		Fair		Yes	Remain	N/A
1027	14	Tallow Tree	Pongamia pinnata	30	40	1257	Fair	No	Yes	Remain	N/A
1028	10	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1029	5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1030	12.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
	<b>†</b>	Ligustrum	Ligustrum japonicum	1	†				162	<u> </u>	
1031	5			10	10	79	Fair			Remain	N/A
1032	9	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1033	5.5	Silver Buttonwood	Conocarpus erectus var. sericeus	20	15	177	Fair			Remain	N/A
1034	4	Silver Buttonwood	Conocarpus erectus var. sericeus	15	8	50	Poor			Remain	N/A
1035	9	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1036	10	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A
1037	3.5	Silver Buttonwood	Conocarpus erectus var. sericeus	20	10	79	Fair			Remain	N/A
1038	3	Silver Buttonwood	Conocarpus erectus var. sericeus	30	10	79	Fair			Remain	N/A
1039	6.5	Silver Buttonwood	Conocarpus erectus var. sericeus	30	20	314	Fair			Remain	N/A
1040	6.5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A
1041	5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	15	177	Fair			Remain	N/A
			Conocarpus erectus var. sericeus							<u> </u>	
1042	10	Silver Buttonwood	<del>'</del>	30	20	314	Fair			Remain	N/A
1043	6	Silver Buttonwood	Conocarpus erectus var. sericeus	30	30	707	Fair			Remain	N/A
1044	6	Silver Buttonwood	Conocarpus erectus var. sericeus	35	20	314	Fair			Remain	N/A
1045	8	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A
1046	3	Silver Buttonwood	Conocarpus erectus var. sericeus	15	10	79	Fair			Remain	N/A
1047	10	Silver Buttonwood	Conocarpus erectus var. sericeus	20	20	314	Fair			Remain	N/A
1048	13	Coconut Palm	Cocos nucifera	30	-		Fair		Yes	Remain	N/A
1049	6.5	Silver Buttonwood	Conocarpus erectus var. sericeus	20	15	177	Fair			Remain	N/A
1050	4.5	Silver Buttonwood	Conocarpus erectus var. sericeus	30	20	314	Fair			Remain	N/A
1051	4	Silver Buttonwood	Conocarpus erectus var. sericeus	25	15	177	Fair			Remain	N/A
1052	4	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A
			<u> </u>							<u> </u>	
1053	5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	15	177	Fair			Remain	N/A
1054	5.5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A
1055	15	Coconut Palm	Cocos nucifera	30	-		Fair		Yes	Remain	N/A
1056	14	Coconut Palm	Cocos nucifera	30	-		Fair		Yes	Remain	N/A
1057	9.5	Coconut Palm	Cocos nucifera	30	-		Fair			Remain	N/A
1058	8	Coconut Palm	Cocos nucifera	30	-		Fair			Remain	N/A
1059	6.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1060	6	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1061	8	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1062	9	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
		Ligustrum		1						<del>                                     </del>	
1063	5.5	-	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1064	9	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1065	6.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1066	14.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1067	9.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1068	5.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1069	16	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1070	13.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1071	11	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1072	12	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1073	15	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1074	16	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1074	14	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1075	13.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
<b>-</b>			1	<b>†</b>		13			169		
1077	11	Coconut Palm	Cocos nucifera	25	-		Fair			Remain	N/A
1078	11.5	Coconut Palm	Cocos nucifera	30	-		Fair			Remain	N/A
1079	12	Coconut Palm	Cocos nucifera	35	-		Fair		Yes	Remain	N/A
1080	3.5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	15	177	Fair			Remain	N/A
1081	15.5	Silver Buttonwood	Conocarpus erectus var. sericeus	30	30	707	Fair		Yes	Remain	N/A
1082	6	Silver Buttonwood	Conocarpus erectus var. sericeus	35	10	79	Fair			Remain	N/A
1083	12	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair		Yes	Remain	N/A
1084	5	Ligustrum	Ligustrum japonicum	30	10	79	Fair			Remain	N/A
1085	8.5	Silver Buttonwood	Conocarpus erectus var. sericeus	15	20	314	Fair			Remain	N/A
1086	5	Ligustrum	Ligustrum japonicum	30	10	79	Fair			Remain	N/A
1087	4	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
	_	Ligustrum	Ligustrum japonicum	t	10	79				<del>                                     </del>	
1088	5.5		+	25			Fair			Remain	N/A
1089	4.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1090	8.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1091	6.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1092	8	Ligustrum	Ligustrum japonicum	10	10	79	Fair			Remain	N/A
1093	9	Silver Buttonwood	Conocarpus erectus var. sericeus	20	10	79	Fair			Remain	N/A
1094	5	Silver Buttonwood	Conocarpus erectus var. sericeus	30	20	314	Fair			Remain	N/A
1095	5.5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	15	177	Fair			Remain	N/A
1096	4.5	Silver Buttonwood	Conocarpus erectus var. sericeus	10	10	79	Fair			Remain	N/A
1097	6.5	Silver Buttonwood	Conocarpus erectus var. sericeus	35	30	707	Fair			Remain	N/A
	<del> </del>		Conocarpus erectus var. sericeus							<del>                                     </del>	
1098	9	Silver Buttonwood	<del> </del>	20	15	177	Fair		V-	Remain	N/A
1099	12	Silver Buttonwood	Conocarpus erectus var. sericeus	25	15	177	Fair		Yes	Remain	N/A
1100	15	Coconut Palm	Cocos nucifera	35	-		Fair		Yes	Remain	N/A
1101	8.5	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A
1102	11	Silver Buttonwood	Conocarpus erectus var. sericeus	30	20	314	Fair			Remain	N/A
1103	9	Silver Buttonwood	Conocarpus erectus var. sericeus	25	20	314	Fair			Remain	N/A

The Community   Section   Section							Canopy Area		Blatad	0	Diamanidan	Canopy Area
100   100	Tree #	DBH (in.)	Common Name		Height (ft.)	Spread (ft.)	(sq. ft.) (calculated)	Condition	Regulated Tree	Specimen Tree	Disposition	(sq.ft.) to Mitigate
201   1997		<b>†</b>		<u>'</u>						Yes		N/A
1909   1-45		t					<b>-</b>					N/A N/A
1-90	1107	1	Ligustrum	Ligustrum japonicum						Yes		N/A
1.50   1.50		<del> </del>		<u> </u>			<b>-</b>			Yes		N/A
1981   1982			-							Yes	<b>.</b>	N/A N/A
1961   1975   Service		<b>+</b>		<u> </u>						Yes		N/A
1-10	1112	18.5	-		10	10	79	Fair				N/A
195			·							Yes		N/A
1-10   1-3		<u> </u>		<u>'</u>						Yes		N/A N/A
1911   1912   1913   1914		1		Conocarpus erectus var. sericeus							Remain	N/A
1415   18.5   Inter-frammond		<b>†</b>	Silver Buttonwood	<u> </u>								N/A
1975   1		<b>†</b>		<u>'</u>								N/A N/A
1972   1975		<b> </b>		<u> </u>								N/A
100   100	1121	13	Gold Tree	Tabebuia Aurea	20	30	707	Fair		Yes	Remain	N/A
1925   182				-			2827					N/A
1922   Salauge Para   Salauge Para		<u> </u>		<u>'</u>		-						N/A N/A
1979   1-2   Carboy-Print   Sale Aphrens   2-2		<b>†</b>		<u> </u>		-				Yes	Remain	N/A
1925   1.5   General Print   Converted   1.5	1126	11		<u>'</u>	20	-		NP				50
1952   8.5   PARA ALL   Colore comes   10   12   193   196     Region   R		<b>†</b>		<u> </u>		-						N/A
1975   B.   Command Frame   Commanders   28		<b>-</b>		<del> </del> '		12	113			165		N/A 113
1922   1.7.2		<b>†</b>										N/A
1934   3   Cooper Film		<b>†</b>				-						50
1915   9   Control Film		<del> </del>				-						N/A N/A
1915   8   Control Palm		1										N/A
1919   9.6   Control Policy   Control Policy   1919   9.6						40	1257					N/A
1929   R.   Secular Security Se		<b>-</b>				-						N/A
1990   19   Ocean Faller		<b> </b>				-				Yes		N/A N/A
1419		<del> </del>	,	, , ,		-				100		N/A
1442   54   Deceased Paris   Chara vanishin   28   -     Fair   Yea   Flemen   1444   8   Charan Carlos   28   -       Fair   Yea   Flemen   1444   8   Charan Carlos   28   -		<b>†</b>				-						N/A
1444   B		<u> </u>				-				V-		N/A N/A
						-				Yes		N/A N/A
		<b>-</b>				-					ļ	N/A
1546   9   Control Palme   C	1145	8	Coconut Palm	Cocos nucifera	15	-		Fair				N/A
1566   12   Mogni Processor   Decover Age   20   33   777   Fair   Yes   Remain   1560   3   3   3   3   3   3   3   3   3		<b>†</b>										N/A N/A
1516   9		<b>+</b>					707			Yes		N/A
1515   71		t	-								Remain	N/A
1912   7.5   Conson Part	1150	8	Coconut Palm	Cocos nucifera	15	-		Fair				N/A
1953   75   WMJ Tamende   1,940/evo parkingum   26   25   35   862   NP		<b>†</b>				-						N/A N/A
1515   9   Wild Tamenied   Cysilone Medilyourn   20   20   314   Febr   Remain   Section   Sec		<b>†</b>				35	962					962
1975   3   West Towarder   Qualifore Beliefs   20   20   314   5   6   7		<del> </del>									Remain	N/A
1507   9   Royal Provisions			Wild Tamarind	<u> </u>								N/A
1555   0		<u> </u>		<u> </u>								N/A 50
159		<u> </u>		-								N/A
1961   0   Roya Pholicationa		1	Royal Poinciana								Remain	N/A
102   20   Four   Colophyllum antillarum   25   35   36   362   Fair   No   Remote		t					<b>-</b>		No	Yes		N/A
1193			•			<del> </del>						N/A N/A
1954		<b>-</b>							No			N/A
1168   19   Mast Wood   Categriyilum antillonum		t		Calophyllum antillanum							Remove	N/A
1167				<u> </u>								N/A
1168   8   Paradise Tree   Simaroube glauca   25   20   314   Poor   Remove   Remove   1168   8   Christmas Palm   Adoustia menalii   30   -				· · ·					No	Yes		N/A 177
1170   8   Christmas Palm   Adonidis marrelli   35   -   Poor   Remove   1171   8   Christmas Palm   Adonidis marrelli   30   -   Poor   Remove   1172   7   Christmas Palm   Adonidis marrelli   30   -   Poor   Remove   1172   7   Christmas Palm   Adonidis marrelli   35   -   NP   Remove   1173   3   Ugnum Vitae   Gualacum officinale   10   10   79   NP   Remove   1173   3   Ugnum Vitae   Gualacum officinale   108   10   79   NP   Remove   1174   3   Ugnum Vitae   Gualacum officinale   8   8   50   NP   Remove   1176   2.5   Ugnum Vitae   Gualacum officinale   8   8   50   NP   Remove   1176   2.5   Ugnum Vitae   Gualacum officinale   15   6   28   Fair   Remain   1177   15   Sever Buttomwood   Conocappus erectus var. sericeus   25   20   314   Fair   Yes   Remain   1177   15   Sever Buttomwood   Conocappus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1179   18   Sever Buttomwood   Conocappus erectus var. sericeus   15   30   707   Fair   Yes   Remain   1179   18   Sever Buttomwood   Conocappus erectus var. sericeus   15   30   707   Fair   Yes   Remain   1180   2.5   Sever Buttomwood   Conocappus erectus var. sericeus   15   10   79   Fair   Yes   Remain   1180   12   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1181   12   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1183   145   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1183   145   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1184   11   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1187   12   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1180   15   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1180   15   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1180   15   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1180   115   Ugustum   Ugustum japonicum   15   10   79   Fair   Yes   Remain   1180   115   Ugustum   Ugustum japonicum   15   10   79   F		1										314
1171   8   Christmas Palim   Adoxidia marrolli   30   -   Poor   Remove   1172   7   Christmas Palim   Adoxidia marrolli   35   -   NP   Remove   1173   3   Ujurum Vitae   Gualecum officinale   10   10   79   NP   Remove   1174   3   Ujurum Vitae   Gualecum officinale   108   10   79   NP   Remove   1175   2.5   Ugnum Vitae   Gualecum officinale   8   8   50   NP   Remove   1176   2.5   Ujurum Vitae   Gualecum officinale   8   8   50   NP   Remove   1176   2.5   Ujurum Vitae   Gualecum officinale   8   8   50   NP   Remove   1177   15   Silver Buttonwood   Concorpus erectus ver. sericeus   25   20   314   Fair   Yes   Remain   1177   15   Silver Buttonwood   Concorpus erectus ver. sericeus   25   20   314   Fair   Yes   Remain   1179   18.5   Silver Buttonwood   Concorpus erectus ver. sericeus   25   30   707   Fair   Yes   Remain   1180   2.5   Silver Buttonwood   Concorpus erectus ver. sericeus   15   30   707   Fair   Yes   Remain   1181   12   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1182   12.5   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1183   14.5   Ujustrum   Ligustrum   15   10   79   Fair   Yes   Remain   1186   19   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1185   10   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1186   19   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1186   19   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1187   12.5   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1187   12.5   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1188   11.5   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1188   11.5   Ujustrum   Ligustrum piponicum   15   10   79   Fair   Yes   Remain   1189   1		<b>+</b>		Adonidia merrellii								50
1172   7   Christmas Palm   Adondia marvalli   35   -   79   NP   Remove   1173   3   Ugunum Vitae   Gualecum officinale   10   10   79   NP   Remove   1174   3   Ugunum Vitae   Gualecum officinale   108   10   79   NP   Remove   1175   2.5   Ugunum Vitae   Gualecum officinale   8   8   50   NP   Remove   1176   2.5   Ugunum Vitae   Gualecum officinale   15   6   28   Fair   Remain   1177   15   Silver Buttornwood   Gualecum officinale   15   6   28   Fair   Yes   Remain   1177   15   Silver Buttornwood   Conocarpus arrectus var. sericeus   25   20   314   Fair   Yes   Remain   1179   18.5   Silver Buttornwood   Conocarpus arrectus var. sericeus   25   30   707   Fair   Yes   Remain   1179   18.5   Silver Buttornwood   Conocarpus arrectus var. sericeus   25   30   707   Fair   Yes   Remain   1180   2.5   Silver Buttornwood   Conocarpus arrectus var. sericeus   15   10   79   Fair   Yes   Remain   1181   12   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1182   12.5   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1183   14.5   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1184   21   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1184   21   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1186   0.5   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1187   12.5   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1189   Ugustrum   Ugustrum japonicum   15   10   79   Fair   Yes   Remain   1189   1185   1		1				-						50 50
1173   3		<b> </b>									<b> </b>	50 79
1175   2.5		<u> </u>					79					108
1176		<u> </u>				<del> </del>						50
1177   15   Silver Buttonwood   Conocarpus erectus var. sericeus   25   20   314   Fair   Yes   Remain   1178   18   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1179   18.5   Silver Buttonwood   Conocarpus erectus var. sericeus   15   30   707   Fair   Yes   Remain   1180   2.5   Silver Buttonwood   Conocarpus erectus var. sericeus   15   10   79   Fair   Yes   Remain   1181   12   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1182   12.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1183   14.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1184   21   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1185   19   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1186   19   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1186   19   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1186   19   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1187   12.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1188   11.5   Ligustrum   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1189   12.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1189   12.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1190   15.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1190   15.5   Ligustrum   Ligustrum isponicum   15   10   79   Fair   Yes   Remain   1191   32   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1193   7   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   No   Yes   Remain   1196   9.5   Tallow Tree   Pongamia pinnata   25   25   491   Fair   No   Yes   Remain   1196   9.5   Tallow Tree		<b>†</b>										28 N/A
1178			_							Yes		N/A
180   2.5   Silver Buttonwood   Conocarpus erectus var. sericeus   15   10   79   Fair   Yes   Remain   181   12   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   182   12.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   183   14.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   184   21   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   185   19   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   186   9.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   187   12.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   188   11.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   189   22   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   189   22   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   190   10.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   No   Yes   Remain   190   10.5   Tailow Tree   Pongamia pinnata   25   25   25   491   Fair   No				· ·						Yes		N/A
1181   12   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1182   12.5   Ligustrum   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1183   14.5   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1184   21   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1185   19   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1186   9.5   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1187   12.5   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1188   11.5   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1189   22   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1190   15.5   Ligustrum   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1191   32   Silver Buttonwood   Ligustrum   japonicum   15   10   79   Fair   Yes   Remain     1192   10.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain     1193   7   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain     1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain     1195   14   Tallow Tree   Pongamia pinnata   30   40   1257   Fair   No   Yes   Remain     1196   9.5   Tallow Tree   Pongamia pinnata   25   25   491   Fair   No   Yes   Remain     1198   14   Tallow Tree   Pongamia pinnata   30   30   707   Fair   No   Yes   Remain     1199   21   Tallow Tree   Pongamia pinnata   36   30   707   Fair   No   Yes   Remain     1200   11   Tallow Tree   Pongamia pinnata   36   30   707   Fair   No   Yes   Remain     1200   11   Tallow Tree   Pongamia pinnata   36   30   707   Fair   No   Yes   Remain     1201   13   Coconut Palm   CoconutPalm   CoconutPalm										Yes	ļ	N/A
1182   12.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1183   14.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1184   21   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1185   19   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1186   9.5   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1187   12.5   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1187   12.5   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1188   11.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1189   22   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1190   15.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Yes   Remain   1191   13.2   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1192   10.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   15   177   Fair   Remain   1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain   1195   14   Tallow Tree   Pongamia pinnata   25   25   491   Fair   No   Remain   1196   9.5   Tallow Tree   Pongamia pinnata   25   25   491   Fair   No   Remain   1198   14   Tallow Tree   Pongamia pinnata   25   30   707   Fair   No   Yes   Remain   1198   14   Tallow Tree   Pongamia pinnata   25   30   707   Fair   No   Yes   Remain   1199   21   Tallow Tree   Pongamia pinnata   30   30   707   Fair   No   Yes   Remain   1199   21   Tallow Tree   Pongamia pinnata   35   30   707   Fair   No   Yes   Remain   1200   11   Tallow Tree   Pongamia pinnata   35   30   707   Fair   No   Yes   Remain   1200   11   Tallow Tree   Pongamia pinnata   35   30   707   Fair   No   Yes   Remain   1200   50   Silver Buttonwood   C				<u>'</u>						Yes		N/A N/A
1183		<b>†</b>	_	1 1		<del> </del>						N/A
1186   19   Ligustrum   Ligustrum   15   10   79   Fair   Yes   Remain			Ligustrum	Ligustrum japonicum						Yes		N/A
1186   9.5   Ligustrum   Ligustrum japonicum   15   10   79   Fair   Remain			-									N/A
1187   12.5   Ligustrum   Ligustrum   15   10   79   Fair   Yes   Remain		<b>-</b>								res		N/A N/A
1188				<u> </u>						Yes		N/A
1190         15.5         Ligustrum         Ligustrum japonicum         15         10         79         Fair         Yes         Remain           1191         32         Silver Buttonwood         Conocarpus erectus var. sericeus         25         30         707         Fair         Yes         Remain           1192         10.5         Silver Buttonwood         Conocarpus erectus var. sericeus         25         15         177         Fair         Remain           1193         7         Silver Buttonwood         Conocarpus erectus var. sericeus         20         20         314         Fair         Remain           1194         26         Silver Buttonwood         Conocarpus erectus var. sericeus         25         30         707         Fair         Yes         Remain           1195         14         Tallow Tree         Pongamia pinnata         30         40         1257         Fair         No         Yes         Remain           1196         9.5         Tallow Tree         Pongamia pinnata         25         25         491         Fair         No         Remain           1197         9.5         Tallow Tree         Pongamia pinnata         25         30         707         Fair		1										N/A
1191   32   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain     1192   10.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   15   177   Fair   Remain     1193   7   Silver Buttonwood   Conocarpus erectus var. sericeus   20   20   314   Fair   Remain     1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain     1195   14   Tallow Tree   Pongamia pinnata   30   40   1257   Fair   No   Yes   Remain     1196   9.5   Tallow Tree   Pongamia pinnata   25   25   491   Fair   No   Remain     1197   9.5   Tallow Tree   Pongamia pinnata   25   30   707   Fair   No   Remain     1198   14   Tallow Tree   Pongamia pinnata   25   30   707   Fair   No   Yes   Remain     1199   21   Tallow Tree   Pongamia pinnata   40   50   1963   Fair   No   Yes   Remain     1200   11   Tallow Tree   Pongamia pinnata   35   30   707   Fair   No   Yes   Remain     1201   13   Coconut Palm   Cocos nucifera   30   -   Fair   Fair   Yes   Remain     1202   6.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   15   177   Fair   Remain     1203   5   Silver Buttonwood   Conocarpus erectus var. sericeus   15   10   79   Fair   Remain     1204   79   Fair   Remain   Remain     1205   79   Fair   Remain   Remain     1206   79   Fair   Remain   Remain     1207   79   Fair   Remain   Remain     1208   709												N/A N/A
1192   10.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   15   177   Fair   Remain     1193   7   Silver Buttonwood   Conocarpus erectus var. sericeus   20   20   314   Fair   Remain     1194   26   Silver Buttonwood   Conocarpus erectus var. sericeus   25   30   707   Fair   Yes   Remain     1195   14   Tallow Tree   Pongamia pinnata   30   40   1257   Fair   No   Yes   Remain     1196   9.5   Tallow Tree   Pongamia pinnata   25   25   491   Fair   No   Remain     1197   9.5   Tallow Tree   Pongamia pinnata   25   30   707   Fair   No   Remain     1198   14   Tallow Tree   Pongamia pinnata   30   30   707   Fair   No   Yes   Remain     1199   21   Tallow Tree   Pongamia pinnata   40   50   1963   Fair   No   Yes   Remain     1200   11   Tallow Tree   Pongamia pinnata   35   30   707   Fair   No   Yes   Remain     1201   13   Coconut Palm   Cocos nucifera   30   -   Fair   Fair   Yes   Remain     1202   6.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   15   177   Fair   Remain     1203   5   Silver Buttonwood   Conocarpus erectus var. sericeus   15   10   79   Fair   Remain     1204   79   Fair   Remain   Remain     1205   79   Fair   Remain   Remain     1206   79   Fair   Remain   Remain		<b>†</b>	_	1								N/A N/A
1194   26		1		<u>'</u>								N/A
1195		<b>+</b>		<u>'</u>								N/A
1196         9.5         Tallow Tree         Pongamia pinnata         25         25         491         Fair         No         Remain           1197         9.5         Tallow Tree         Pongamia pinnata         25         30         707         Fair         No         Remain           1198         14         Tallow Tree         Pongamia pinnata         30         30         707         Fair         No         Yes         Remain           1199         21         Tallow Tree         Pongamia pinnata         40         50         1963         Fair         No         Yes         Remain           1200         11         Tallow Tree         Pongamia pinnata         35         30         707         Fair         No         Yes         Remain           1201         13         Coconut Palm         Cocos nucifera         30         -         Fair         Yes         Remain           1202         6.5         Silver Buttonwood         Conocarpus erectus var. sericeus         25         15         177         Fair         Remain           1203         5         Silver Buttonwood         Conocarpus erectus var. sericeus         15         10         79         Fair         Remain		t		<u>'</u>								N/A
1197   9.5   Tallow Tree   Pongamia pinnata   25   30   707   Fair   No   Remain     1198   14   Tallow Tree   Pongamia pinnata   30   30   707   Fair   No   Yes   Remain     1199   21   Tallow Tree   Pongamia pinnata   40   50   1963   Fair   No   Yes   Remain     1200   11   Tallow Tree   Pongamia pinnata   35   30   707   Fair   No   Remain     1201   13   Coconut Palm   Cocos nucifera   30   -   Fair   Fair   Yes   Remain     1202   6.5   Silver Buttonwood   Conocarpus erectus var. sericeus   25   15   177   Fair   Remain     1203   5   Silver Buttonwood   Conocarpus erectus var. sericeus   15   10   79   Fair   Remain     1204   Remain   Remain     1205   Remain   Remain     1206   Remain   Remain     1207   Remain   Remain     1208   Remain   Remain     1209   Remain   Remain     1209   Remain   Remain     1209   Remain   Remain     1200   Remain   Remain     1201   Remain   Remain     1202   Remain   Remain     1203   Remain   Remain     1204   Remain   Remain     1205   Remain   Remain     1206   Remain   Remain     1207   Remain   Remain     1208   Remain   Remain     1209   Remain   Remain     1200   Remain   Remain     1201   Remain   Remain     1202   Remain   Remain     1203   Remain   Remain     1204   Remain   Remain     1205   Remain   Remain     1206   Remain   Remain     1207   Remain   Remain     1208   Remain   Remain     1209   Remain   Remain     1200   Remain   Remain     1200   Remain   Remain     1201   Remain   Remain     1202   Remain   Remain     1203   Remain   Remain     1204   Remain   Remain     1205   Remain   Remain     1206   Remain   Remain     1207   Remain   Remain     1208   Remain   Remain     1209   Remain   Remain     1200   Remain   Remain     1200   Remain   Remain     1201   Remain   Remain     1202   Remain   Remain     1203   Remain   Remain     1204   Remain   Remain     1205   Remain   Remain     1206   Remain   Remain     1207   Remain   Remain     1208   Remain   Remain     1209   Remain   Remain     1200   Remain   Remain     1201   Remain   Remain     1202		<b>†</b>		,						res		N/A N/A
1199         21         Tallow Tree         Pongamia pinnata         40         50         1963         Fair         No         Yes         Remain           1200         11         Tallow Tree         Pongamia pinnata         35         30         707         Fair         No         Remain           1201         13         Coconut Palm         Cocos nucifera         30         -         Fair         Yes         Remain           1202         6.5         Silver Buttonwood         Conocarpus erectus var. sericeus         25         15         177         Fair         Remain           1203         5         Silver Buttonwood         Conocarpus erectus var. sericeus         15         10         79         Fair         Remain		t										N/A
1200         11         Tallow Tree         Pongamia pinnata         35         30         707         Fair         No         Remain           1201         13         Coconut Palm         Cocos nucifera         30         -         Fair         Yes         Remain           1202         6.5         Silver Buttonwood         Conocarpus erectus var. sericeus         25         15         177         Fair         Remain           1203         5         Silver Buttonwood         Conocarpus erectus var. sericeus         15         10         79         Fair         Remain												N/A
1201 13 Coconut Palm Cocos nucifera 30 - Fair Yes Remain 1202 6.5 Silver Buttonwood Conocarpus erectus var. sericeus 25 15 177 Fair Remain 1203 5 Silver Buttonwood Conocarpus erectus var. sericeus 15 10 79 Fair Remain		<b>†</b>		<u> </u>			<u> </u>			Yes		N/A N/A
1202 6.5 Silver Buttonwood Conocarpus erectus var. sericeus 25 15 177 Fair Remain 1203 5 Silver Buttonwood Conocarpus erectus var. sericeus 15 10 79 Fair Remain		t					/07		No	Yes		N/A N/A
1200 V Cityl Editional Co.							177					N/A
1204 6 Silver Buttonwood Conocarpus erectus var. sericeus 20 10 79 Fair Remain		t		· · · · · · · · · · · · · · · · · · ·						_		N/A
				<u>'</u>								N/A N/A

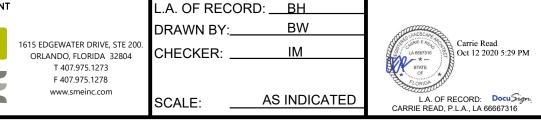
						Canopy Area					Canopy Area
Tree #	DBH (in.)	Common Name	Botanical Name	Height (ft.)	Spread (ft.)	(sq. ft.) (calculated)	Condition	Regulated Tree	Specimen Tree	Disposition	(sq.ft.) to Mitigate
1206	13	Coconut Palm	Cocos nucifera	25		(outoutatou)	Fair	Tree	Yes	Remain	N/A
1207	5.5	Silver Buttonwood	Conocarpus erectus var. sericeus	20	10	79	Fair			Remain	N/A
1208	11	Silver Buttonwood	Conocarpus erectus var. sericeus	25	10	79	Fair			Remain	N/A
1209	5.5	Silver Buttonwood	Conocarpus erectus var. sericeus	10	10	79	Fair			Remain	N/A
1210	9	Silver Buttonwood	Conocarpus erectus var. sericeus	25	10	79	Fair			Remain	N/A
1211	6	Silver Buttonwood  Mast Wood	Conocarpus erectus var. sericeus  Calophyllum antillanum	25 35	15 25	177	Fair Fair	No	Yes	Remain Remove	N/A 982
1212 1213	16 5.5	Pitch A□□e	Clusea rosea	25	10	491 79	NP	NO	163	Remove	79
1214	9.5	Pitch A□□e	Clusea rosea	25	10	79	NP			Remove	79
1215	6	Pitch A□□e	Clusea rosea	25	10	79	NP			Remove	79
1216	9.5	Pitch A⊟e	Clusea rosea	25	10	79	NP			Remove	79
1217	6	Pitch A□□e	Clusea rosea	25	10	79	Fair			Remove	79
1218	8	Pitch A□□e	Clusea rosea	25	10	79	NP			Remove	N/A
1219	4.5	Pitch A□□e	Clusea rosea	25	10	79	NP .			Remove	79
1220 1221	5.5 7.5	Pitch A□□e	Clusea rosea Clusea rosea	25 25	10	79 79	Fair NP			Remove Remove	79 79
1222	4	Pitch A□□e	Clusea rosea	25	10	79	NP			Remove	79
1223	10	Pitch A□□e	Clusea rosea	25	10	79	NP			Remove	79
1224	7.5	Pitch A□□e	Clusea rosea	25	10	79	Fair			Remove	79
1225	5.5	Pitch A□□e	Clusea rosea	25	10	79	Fair			Remove	79
1226	4.5	Pitch A⊡e	Clusea rosea	25	10	79	Fair			Remove	79
1227	11.5	Pitch A□□e	Clusea rosea	25	10	79	Fair			Remove	79
1228	6	Pitch A□□e	Clusea rosea	25	10	79	Fair			Remove Remain	79
1229 1230	7.5	Pitch A□□e	Clusea rosea Clusea rosea	25 25	10	79 79	Fair Fair			Remain	N/A N/A
1231	7.5	Pitch A□□e	Clusea rosea	26	11	95	Fair			Remain	N/A
1232	13	Pitch A⊟e	Clusea rosea	27	12	113	Fair		Yes	Remain	N/A
1233	7.5	Pitch A□□le	Clusea rosea	28	13	133	Fair			Remain	N/A
1234	4	Pitch A□□le	Clusea rosea	29	14	154	Fair			Remain	N/A
1235	15.5	Pitch A = I	Clusea rosea	30	15	177	Fair		Yes	Remain	N/A
1236	8	Pitch ADDe	Clusea rosea	31	16	201	Fair		Yes	Remain	N/A
1237 1238	12 15.5	Pitch A□□e	Clusea rosea	32 33	17 18	227 254	Fair Fair		Yes	Remain Remain	N/A
1238	15.5	Pitch A□□e	Clusea rosea Clusea rosea	33	18 19	254 284	Fair Fair		100	Remain	N/A N/A
1239	6	Pitch A□□e	Clusea rosea	35	20	314	Fair			Remain	N/A
1241	6.5	Pitch A⊡le	Clusea rosea	36	21	346	Fair			Remain	N/A
1242	11	Pitch a⊡e	Clusea rosea	25	10	79	Poor			Remain	N/A
1243	8.5	Pitch a⊡e	Clusea rosea	25	10	79	Fair			Remain	N/A
1244	14	Pitch a⊡e	Clusea rosea	25	10	79	Fair		Yes	Remain	N/A
1245	6.5	Pitch a⊡le Cabbage Palm	Clusea rosea	25	10	79	Fair		Yes	Remain Remain	N/A N/A
1246 1247	13.5 13.5	Cabbage Palm	Sabal palmetto Sabal palmetto	20	-		Fair Fair		Yes	Remain	N/A
1248	14	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1249	14	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes	Remain	N/A
1250	15	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1251	14	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes	Remain	N/A
1252	13.5	Buttonwood	Conocarpus erectus	25	35	962	Fair		Yes	Remain	N/A
1253	19	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes Yes	Remain	N/A N/A
1254 1255	12.5	Cabbage Palm Cabbage Palm	Sabal palmetto Sabal palmetto	15 20	-		Fair Fair		Yes	Remain Remain	N/A
1256	15	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1257	13.5	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes	Remain	N/A
1258	15	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes	Remain	N/A
1259	12.5	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1260	11.5	Cabbage Palm	Sabal palmetto	15	-		Fair			Remain	N/A
1261	31.5	Buttonwood	Conocarpus erectus	40	30	707	Fair		Yes	Remain	N/A
1262	19	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes Yes	Remain Remain	N/A
1263 1264	19 16	Ligustrum Ligustrum	Ligustrum japonicum  Ligustrum japonicum	10 10	10	79 79	Fair Fair		Yes	Remain	N/A N/A
1265	15	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1266	13	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1267	19	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1268	18.5	Ligustrum	Ligustrum japonicum	10	10	79	Fair		Yes	Remain	N/A
1269	11.5	Buttonwood	Conocarpus erectus	25	25	491	Fair			Remain	N/A
1270	16.5	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes Yes	Remain	N/A
1271	15	Cabbage Palm Cabbage Palm	Sabal palmetto Sabal palmetto	20 15	-		Fair Fair		Yes	Remain Remain	N/A N/A
1272 1273	16 15	Cabbage Palm Cabbage Palm	Sabal palmetto	15 15	-		Fair Fair		Yes	Remain	N/A N/A
1273	13	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1275	13	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes	Remain	N/A
1276	9.5	Buttonwood	Conocarpus erectus	25	20	314	Fair			Remain	N/A
1277	7.5	Blac□Olive	Bucida buceras	25	30	707	Fair			Remain	N/A
1278	10	Buttonwood	Conocarpus erectus	35	20	314	Fair			Remain	N/A
1279 1280	10	Buttonwood Buttonwood	Conocarpus erectus  Conocarpus erectus	35 30	20	314 314	Fair Fair			Remain Remain	N/A N/A
1280	18	Cabbage Palm	Sabal palmetto	20	- 20	314	Fair		Yes	Remain	N/A
1282	13	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1283	14	Cabbage Palm	Sabal palmetto	20	<u> </u>		Fair		Yes	Remain	N/A
1284	15	Cabbage Palm	Sabal palmetto	15	-		Fair		Yes	Remain	N/A
1285	14	Cabbage Palm	Sabal palmetto	20	-		Fair		Yes	Remain	N/A
1286	25	Buttonwood	Conocarpus erectus	40	50	1963	Fair		Yes	Remain	N/A
1287	34	Buttonwood Most Wood	Conocarpus erectus  Calophyllum antillanum	20	30	707	Fair	Al-	Yes Yes	Remain Remove	N/A
1288 1289	16 36	Mast Wood Buttonwood	Conocarpus erectus	25 30	30 25	707 491	Fair Fair	No	Yes	Remain	N/A N/A
1299	27	Buttonwood	Conocarpus erectus	30	25	491	Fair		Yes	Remain	N/A N/A
1291	17	Buttonwood	Conocarpus erectus	30	25	491	Fair		Yes	Remain	N/A
1292	15	Mast Wood	Calophyllum antillanum	30	30	707	Fair	No	Yes	Remove	N/A
1293	16.5	Mast Wood	Calophyllum antillanum	40	40	1257	Fair	No	Yes	Remove	N/A
1294	34	Buttonwood	Conocarpus erectus	25	30	707	Fair		Yes	Remain	N/A
1295	57.5	Buttonwood	Conocarpus erectus	30	40	1257	Fair		Yes Yes	Remain	N/A
1296	27	Buttonwood	Conocarpus erectus  Conocarpus erectus	20 25	20 50	314 1963	Fair		Yes	Remain Remain	N/A
1297 1298	44.5 6	Buttonwood Seagra ⊑e	Coccoloba uvifera	25 15	20	1963 314	Fair Fair		100	Remove	N/A 314
1298	10.5	Seagra⊡e	Coccoloba uvifera	25	30	707	Fair			Remove	707
1300	24.5	Buttonwood	Conocarpus erectus	20	20	314	Fair		Yes	Remain	N/A
1301	18.5	Buttonwood	Conocarpus erectus	25	30	707	Fair		Yes	Remain	N/A
1302	27	Buttonwood	Conocarpus erectus	35	40	1257	Fair		Yes	Remain	N/A
1303	20	Buttonwood	Conocarpus erectus	25	30	707	Fair		Yes	Remain	N/A
1304	43	Buttonwood	Conocarpus erectus	40	50	1963	Fair		Yes Yes	Remain Remain	N/A N/A
1305 1306	24 40	Buttonwood Buttonwood	Conocarpus erectus  Conocarpus erectus	20 40	30 50	707 1963	Fair Fair		Yes	Remain	N/A N/A
1306	60	Buttonwood	Conocarpus erectus	45	50	1963	Fair		Yes	Remain	N/A
		·	•								•

## NOTE:

- SEE 5/L-4 FOR TREE PROTECTION DETAIL. SEE SEC 46-62 FOR TREE PRESERVATION AND PROTECTION REQUIREMENTS, ROOT CUTTING, TREE RELOCATINGS AND TREE PRUNING.
- NP □ TREE NOT PRESENT
  - ☐ INDICIATES UPDATES TO TREE DISPOTION CONDITIONS FOLLOWING SEAWALL CONSTRUCTION

BPA
Brindley Pieters & Associates, I
815 NW 57 th Avenue, Suite 200-11, Miami, Fl 33126 Certificate of Authorization Number 50





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4			
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NO.	DATE	REVISION	

L-2

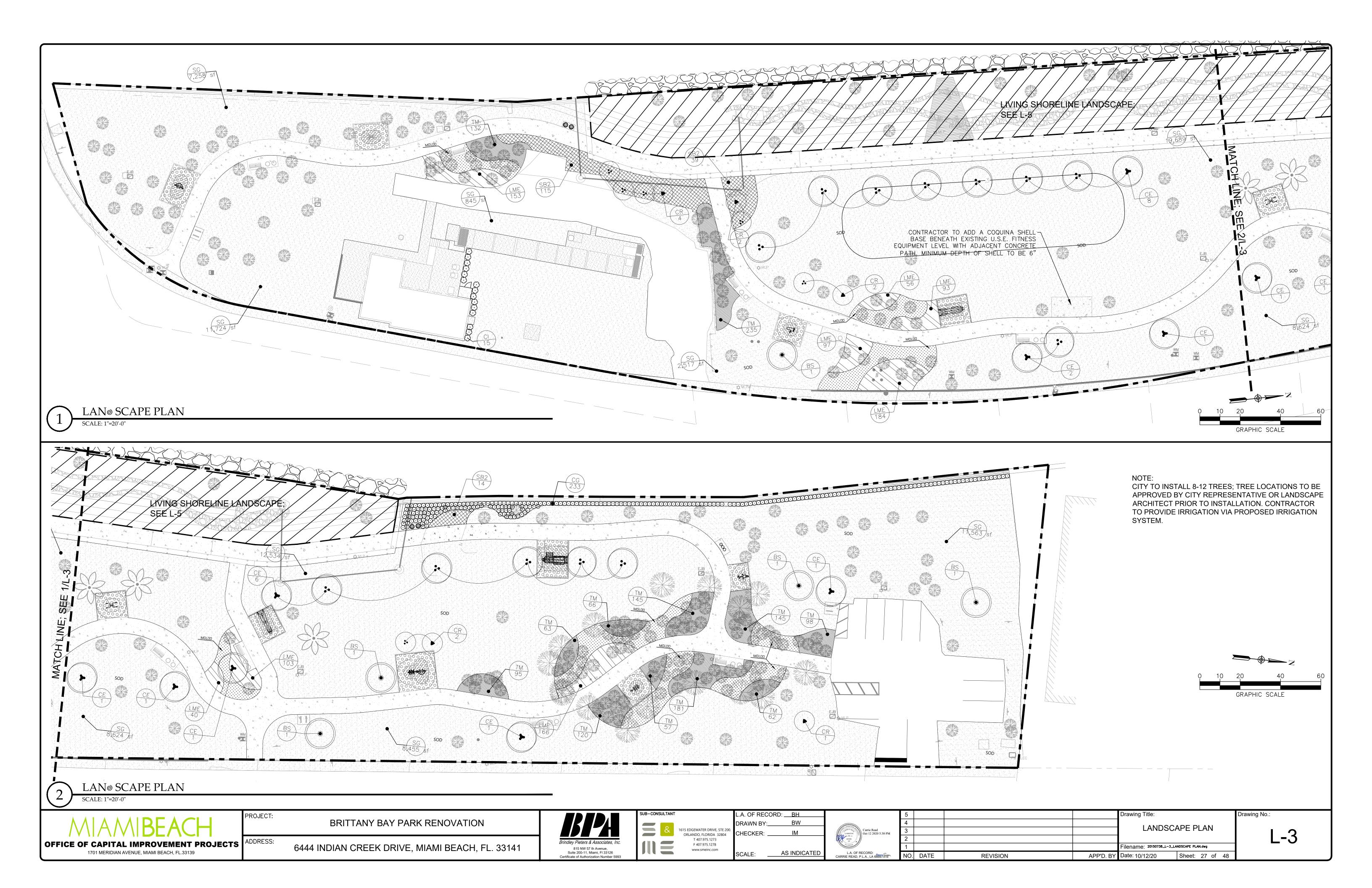
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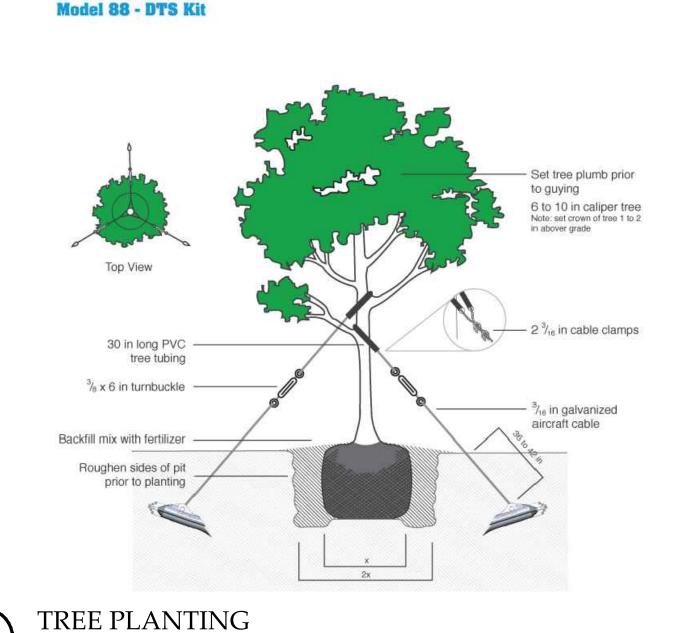
TREE DISPOSITION TABLE

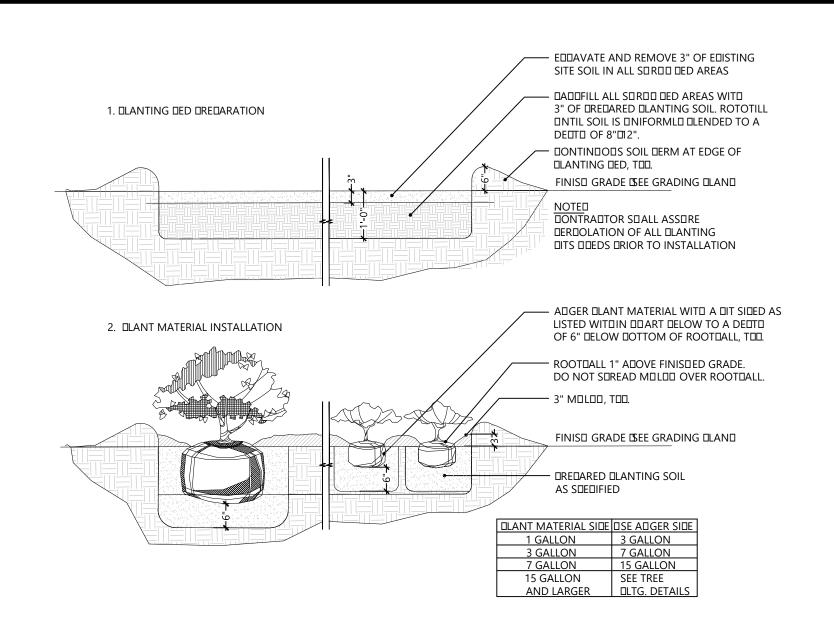
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MIAMIBEACH	PROJECT:
OFFICE OF CAPITAL IMPROVEMENT PROJECTS 1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139	ADDRESS:

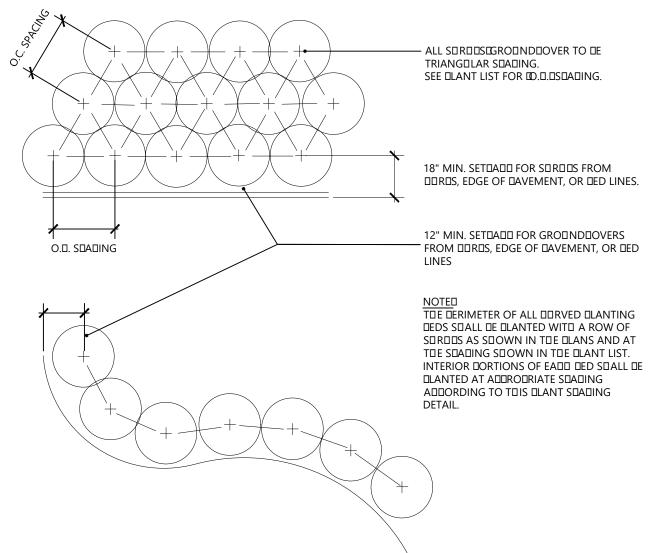
BRITTANY BAY PARK RENOVATION 6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141







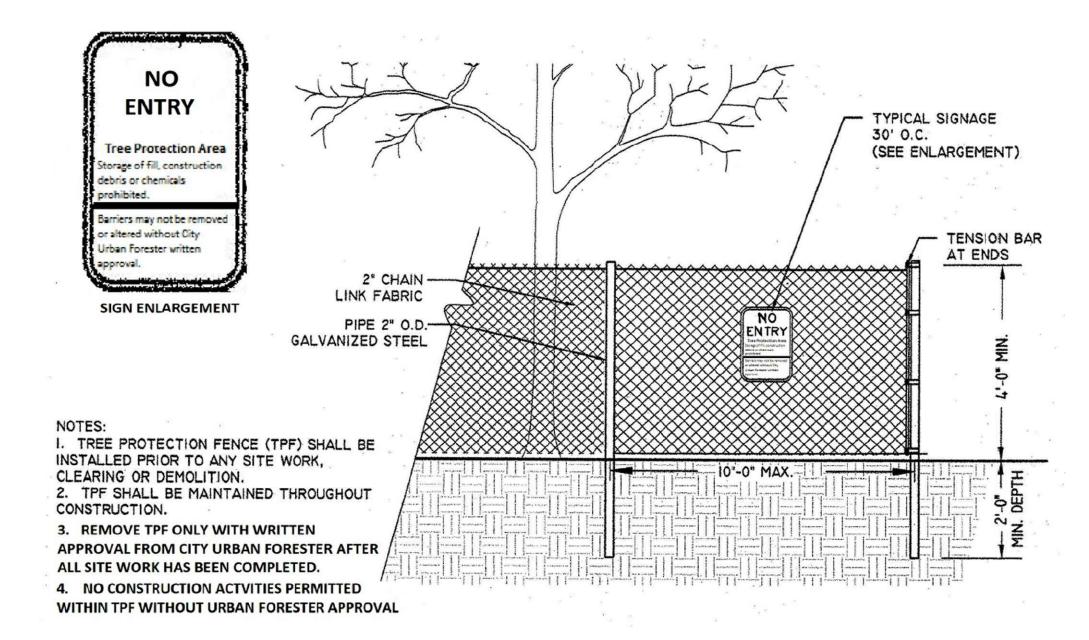




#### Note:

Contractor to review planting soil and depth of beds within living shoreline on sheets L5.1 & L5.2







- 1. A final onsite inspection shall be required with Urban Forestry staff prior to any official acceptance of tree or plant material, in order to verify proper planting depth, spacing and quality of the material. Failure to conduct the inspection could result in rejection of the plant material.
- 2. Mulch shall not be applied within 6" of any tree or palm trunks that are installed or incorporated into the project.
- 3. All guying and staking shall be removed from all trees and palms within twelve months after planting. Exceptions require written authorization from the City Urban Forester. They should be removed after expiration of warranty.
- 4. All tree stakes shall be branded with installation dates.
- 5. All planting beds above high tide line shall be top—dressed with a 3" layer of dark brown mulch. Contractor to submit sample to owner.
- 6. Contractor to follow Florida Friendly Landscaping Guidelines for planting and maintenance.

PLANT SCI	HEDU	LE						
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	CALIPER	SIZE	
$\bigcirc \bigcirc$	BS	5	BURSERA SIMARUBA	GUMBO LIMBO	FG	5.5"	20' HT. MIN.	
·	CR	11	CLUSIA ROSEA 'PITCH APPLE'	BALSAM APPLE	FG	6"	20' HT. MIN.	
	CE	22	CONOCARPUS ERECTUS	BUTTONWOOD	FG	5.5"	20' HT. MIN.	
<u>SHRUBS</u>	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	<u>SPACING</u>	
$\bigcirc$	CI	15	CHRYSOBALANUS ICACO	COCO PLUM	7 GAL.	3'-4' HT.		
$\odot$	CG	233	CLUSIA GUTTIFERA NANA	DWAFT CLUSIA	3 GAL.	18"HT.X18" SPRD., FULL IN POT		
SHRUB AREAS	<u>CODE</u>	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE		<u>SPACING</u>
	LME	892	LIRIOPE MUSCARI 'EMERALD GODDESS'	LIRIOPE	1 GAL.	10"-14" HT., 5-7 PPP		18" o.c.
	SB2	168	SPARTINA BAKERI	SAND CORD GRASS	3 GAL.	24"-30" OA, FULL		36" o.c.
	ТМ	1,399	TRACHELOSPERMUM ASIATICUM 'MINIMA'	MINIMA JASMINE	1 GAL.	4"-6" X 12"-18"		18" o.c.
GROUND COVERS	<u>CODE</u>	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE		<u>SPACING</u>
	SG	83,091 SF	STENOTAPHRUM FLORANDUM	ST. AUGUSTINE GRASS	SOD			
	MULCH							

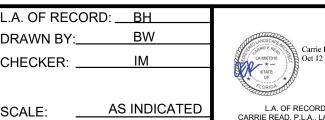
**TOPSOIL** 2,660 CUBIC FEET OF IMPORTED TOPSOIL AT A DEPTH OF 3" NO IMPORTED TOPSOIL WILL BE USED FOR SOD AREAS

MIAMIBEACH	PROJECT:
OFFICE OF CAPITAL IMPROVEMENT PROJECTS	ADDRESS:

BRITTANY BAY PARK RENOVATION 6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141



-CONSULTANT	
<b>8 8 1 1 1 1 1 1 1 1 1 1</b>	1615 EDGEWATER DRIVE, STE 200. ORLANDO, FLORIDA 32804 T 407.975.1273 F 407.975.1278 www.smeinc.com



	MOSCAGE CONTROL
	Carrie Read Oct 12 2020 5:30 PM
	STORION TO
)	L.A. OF RECORD: <b>Docu</b> Sign CARRIE READ, P.L.A., LA 66667316

5				Drawing Title:		
4				LANDSCAPE SO	CHEDULE A	AND
3				DET		
2						
1				Filename: 20150738_L-4_PL	ANT LIST AND DETAILS.	.dwg
NO.	DATE	REVISION	APP'D. BY	Date: 10/12/20	Sheet: 28 c	of 48

L-4

PL	ANT S	CHED	ULE				
SHF	RUB AREAS	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT.	<u>SPACING</u>
		AG	98	AVICENNIA GERMINANS	BLACK MANGROVE	3 GAL.	36" o.c.
		ВМ	751	BATIS MARITIMA	TURTLEWEED	1 GAL.	18" o.c.
		BF	1,384	BORRICHIA FRUTESCENS	SEA OXEYE DAISY	1 GAL.	18" o.c.
++++ ++++ ++++ ++++ +++-+ +++-	++++ ++++ ++++ ++++ ++++ ++++ ++++	JR	229	JUNCUS ROEMERIANUS	BLACK NEEDLEGRASS RUSH	1 GAL.	18" o.c.
		LR	36	LAGUNCULARIA RACEMOSA	WHITE MANGROVE	3 GAL.	36" o.c.
		MC	562	MUHLENBERGIA CAPILLARIS	PINK MUHLY	3 GAL.	24" o.c.
		RR	546	RHIZOPHORA MANGLE	RED MANGROVE	1 GAL.; SINGLE LEADER, STAKED	18" o.c.
		SR	65	SERENOA REPENS	SAW PALMETTO	7 GAL.	36" o.c.
		TF	238	TRIPSACUM FLORIDANUM	DWARF FAKAHATCHEE	3 GAL.	30" o.c.

#### **BOTTOM OF SWALE**

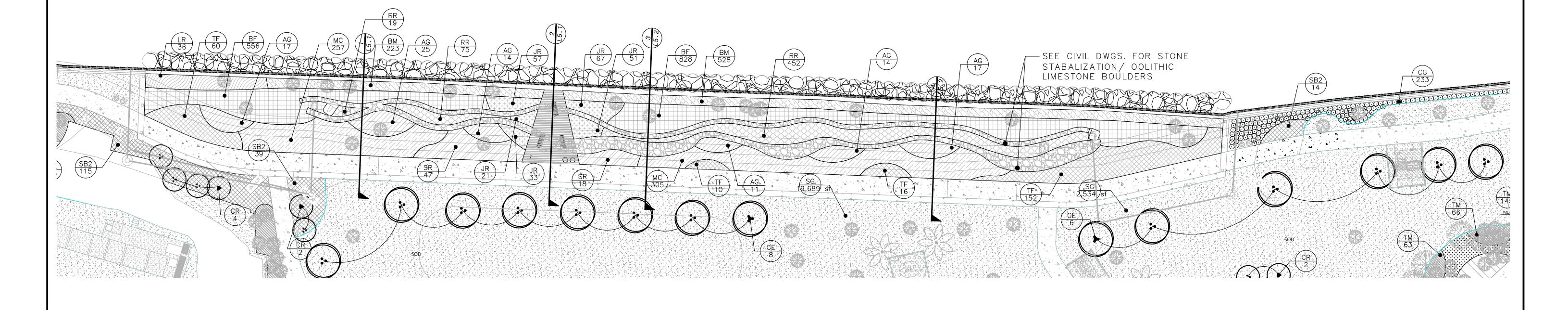
50/50 SAND/ORGANIC SOIL MIX IN THE BOTTOM OF SWALE: 5,332 CUBIC FEET 57 STONE: 1,333 CUBIC FEET

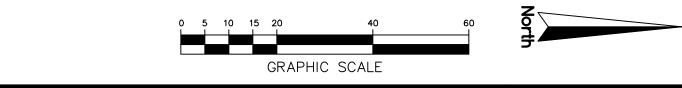
#### EAST OF SWALE

50/50 SAND/ORGANIC SOIL MIX EAST OF SWALE: 7,559 CUBIC FEET

#### NOTE:

- 1. PRIOR TO PLANTING, THE CONTRACTOR SHALL STAKE AND MARK TREE LOCATIONS AND PLANTING BEDS FOR REVIEW BY THE CITY ARBORIST AND PROJECT LANDSCAPE ARCHITECT.
- 2. PRIOR TO EXCAVATION AND CONSTRUCTION OF STONE STABILIZATION OOLITIC LIMESTONE WALLS. THE CONTRACTOR IS TO STAKE THE WALL ALIGNMENT W/ PROPOSED GRADES FOR REVIEW / ADJUSTMENT AS NECESSARY BY THE CITY REPRESENTATIVE.
- 3. CONTRACTOR TO MULCH ALL AREAS IN LIVING SHORELINE ABOVE HIGH TIDE LEVEL.
- 4. CONTRACTOR TO ROOT PRUNE EXISTING MANGROVE TREES WHERE RIPRAP INSTALLATION OCCURS ACCORDING TO INDUSTRY STANDARDS AND ARBOR'S PRESENCE.
- 5. PER URBAN FORESTER'S DIRECTION, RED & WHITE MANGROVE SHALL BE PROCURED PRIOR TO INSTALLATION IN ORDER FOR UF/IFAS VERIFICATION FOR SUITABILITY PLANTING PER URBAN FORESTER.
- 6. THE RED & WHITE MANGROVE SOURCE SHALL PROVIDE A CERTIFICATE OF ACCLIMATION TO SALT CONDITIONS AT THE NURSERY.
- 7. UPON REQUEST BY THE CONTRACTOR, S&ME WILL PROVIDE AUTOCAD DESIGN FILES FOR THEIR USE IN LAYOUT OF THE LIVING SHORELINE AND OTHER PROJECT FEATURES.





1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

PROJECT:
BRITTANY BAY PARK RENOVATION

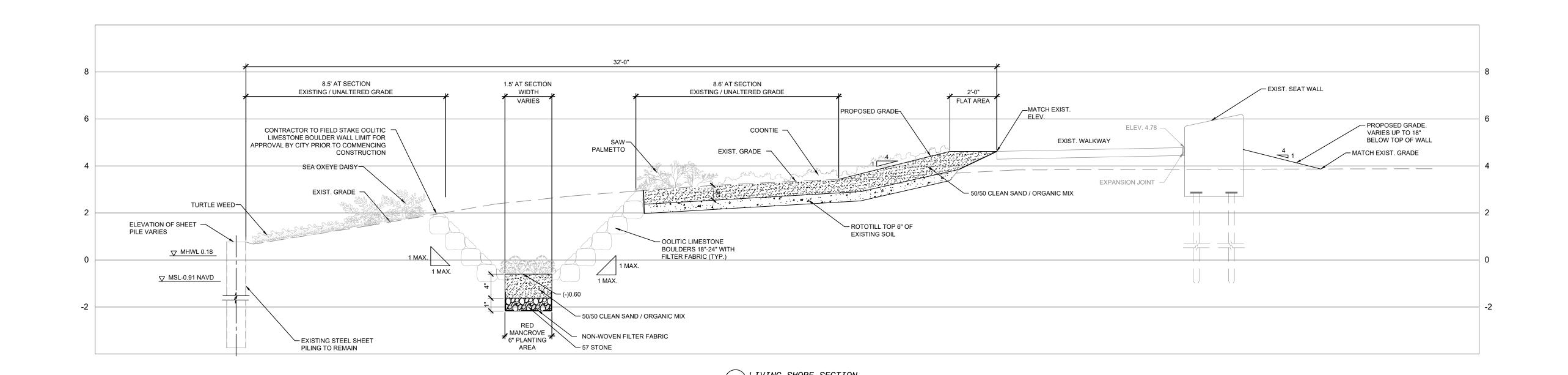
Brindley Pieters & Associates, Inc.
815 NW 57 th Avenue,
Suite 200-11, Miami, FI 33126
Certificate of Authorization Number 5993

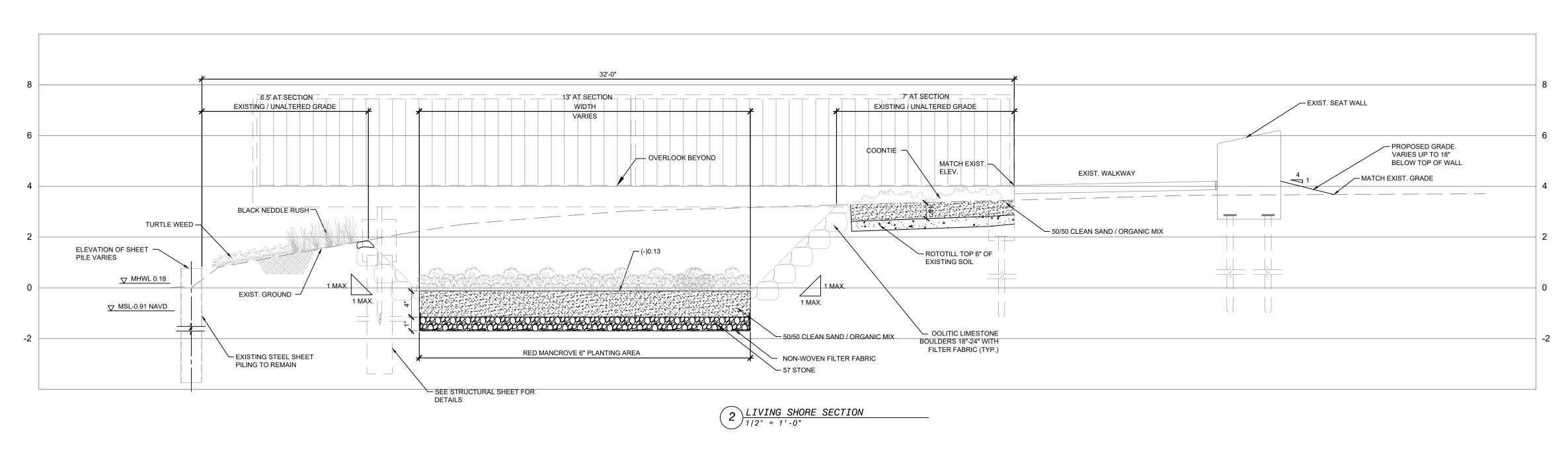
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h	&	1615 EDGEWATER DRIVE ORLANDO, FLORIDA
1		T 407.975.1273
		www.smeinc.com

SCALE:



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#### NOTES:

- 1. CONTRACTOR TO LOCATE & HAND DIG AROUND EXISTING SEAWALL & TIEBACKS.
- CONTRACTOR TO ROOT PRUNE AROUND EXISTING TREES FOR SOIL AMENDMENTS & OOLITIC LIMESTONE BOULDER IN THE PRESENCE OF A CERTIFIED ARBORIST.
- 3. CONTRACTOR TO REVIEW PLANTING PLAN FOR LIMITS OF ROOT PRUNING & EXCAVATION.
- 4. ALL PLANTING AROUND EXISTING MANGROVE & BUTTONWOOD TREES SHALL OCCUR 5' FROM EXISTING TRUNKS. PLANTING SHALL BE HAND DUG SO AS TO MINIMIZE ROOT DAMAGE.
- 5. CONTRACTOR TO ROOT PRUNE EXISTING MANGROVE TREES WHERE RIPRAP INSTALLATION OCCURS ACCORDING TO INDUSTRY STANDARDS AND ARBOR'S PRESENCE.
- 6. SEE CIVIL DETAILS FOR PROTECTION OF EXISTING STEEL TIE-BACKS AT EXCAVATED AREA.

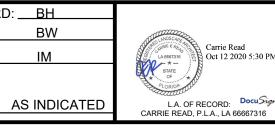
OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

BRITTANY BAY PARK RENOVATION

ADDRESS: 6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141



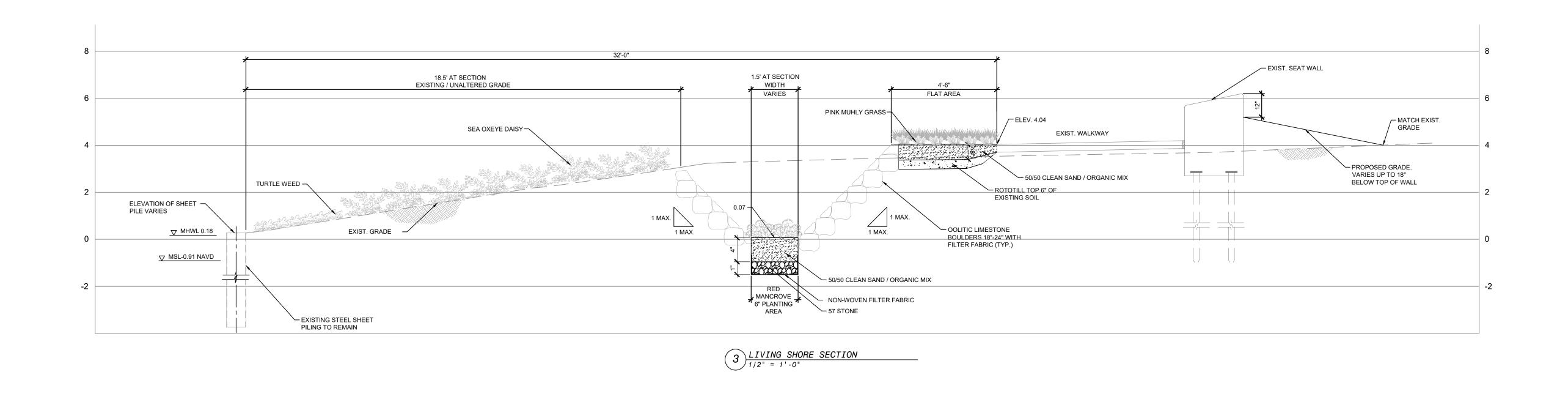


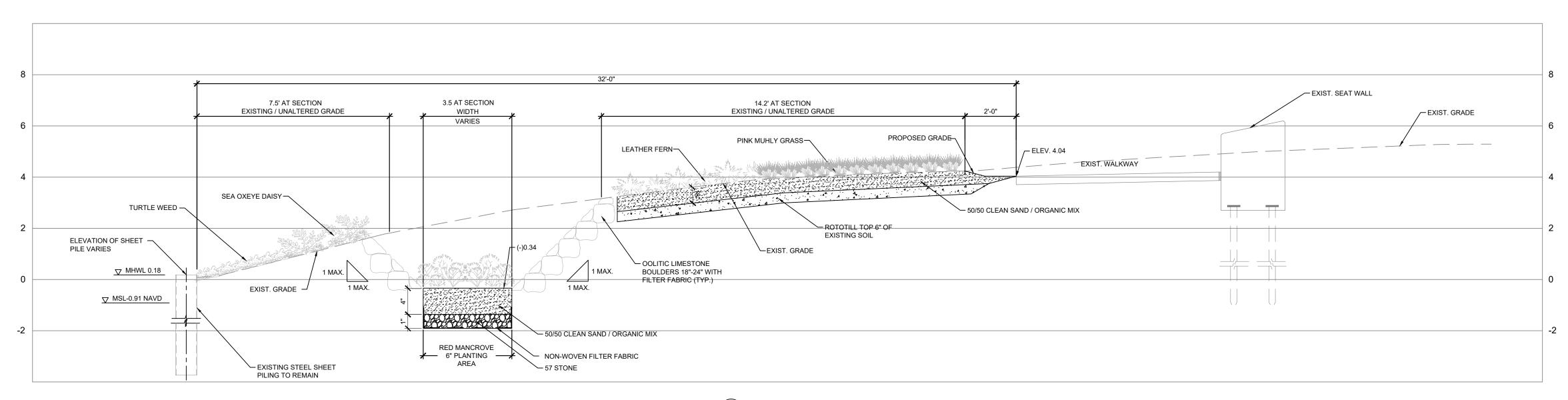


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L-5.1

Drawing No.:





4 LIVING SHORE SECTION
1/2" = 1'-0"

#### TES:

- 1. CONTRACTOR TO LOCATE & HAND DIG AROUND EXISTING SEAWALL & TIEBACKS.
- CONTRACTOR TO ROOT PRUNE AROUND EXISTING TREES FOR SOIL AMENDMENTS & OOLITIC LIMESTONE BOULDER IN THE PRESENCE OF A CERTIFIED ARBORIST.
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- 6. SEE CIVIL DETAILS FOR PROTECTION OF EXISTING STEEL TIE-BACKS AT EXCAVATED AREA.

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L-5.2

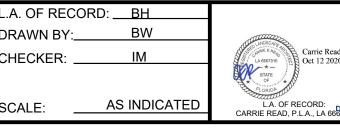
OFFICE OF CAPITAL IMPROVEMENT PROJECTS
1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

BRITTANY BAY PARK RENOVATION

ADDRESS: 6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141

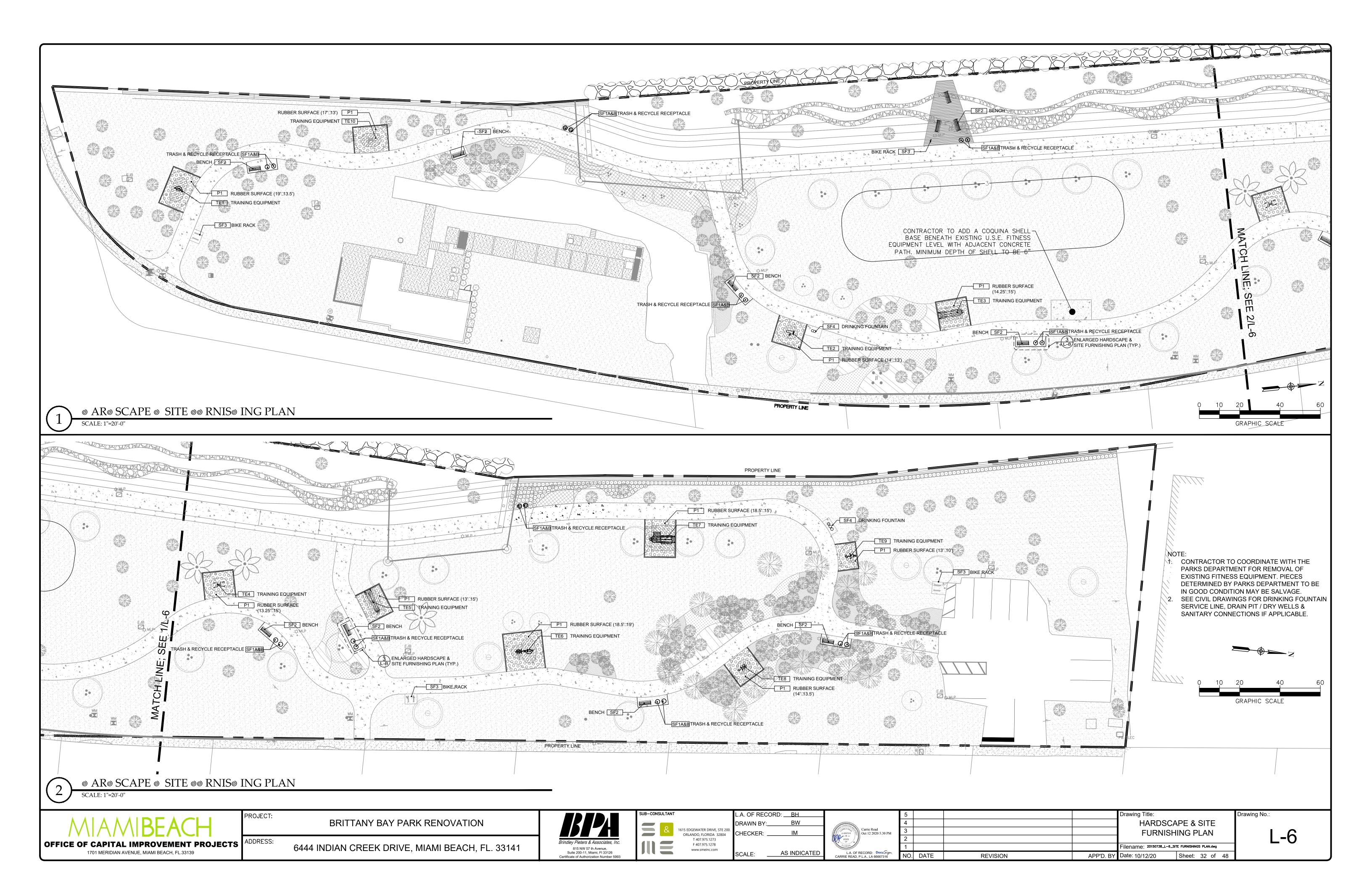






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	Tag	Item/ Material	Color/ Pattern/ Finish	Model/Style	Dimensions	Manufacturer/ Supplier	Note	Detail
te Furnishings	SF1A SF1B	Trash Receptacle Recycle receptable	SF1A Silver, Metallic SF1B Blue bell, Powdercoated	Scarborough (side-opening)	25" DIA., 41" HT.	Landscape Forms or Approved Equal Kelly Moore (800)430-6206 x 1322 kmoore@landscapeforms.com	Surface Mount, see manufacturer's recommendations.  SF1A - label "WASTE or TRASH" on lid.  SF1B - With a smaller opening & label "CAN & BOTTLE RECYCLING" on top and side of bin	1/L-8 3/L-8
	SF2	Bench	Silver, Metallic	Austin (backed Arms)	24"x72"x33"	Landscape Forms or Approved Equal	Surface Mount	2,3/L-8
	SF3	Bike Rack	Electrolyte zinc platted & powder coat finish - Glossy Silver	U201	35.5"x4"x27.5" (HT.)	EMU Americas or Approved Equal (800)726-0368	Bolted down	2/L-11
	SF4	Drinking Fountain	Color: Chrome Stainless Steel wBottle Filler	10145-18 SMSS	53" HT.	Most Dependable Fountains, Inc. (800)552-6331	Surface Mount Stainless Steel Pedestal; Installation per manufacturer's recommendation	3/L-11
ving	P1	Rubber Surface	85% Lt Gray (RH65) 15% Black(0525)	Dura Turf	See plans	Sport Surface Specialties (716)652-2039 www.sportsurface.net	PIP	4,5/L-8
aining uipment	TE1	Free Runner	Black & Silver	KPX120	4'-10"x2'-3"x5'-3"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	1/L-9
	TE2	Sit-up Bench	Black & Silver	KPX121	3'-10"x2'-8"x5'-3"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	2/L-9
	TE3	Parallel Bars	Black & Silver	FAZ10400	3'-6"x12'-10"x10'-11"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	3/L-9
	TE4	Leg Lift Station	Black & Silver	KPX126	2'-6"x5'-8"x5'-3"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	4/L-9
	TE5	Core Twist	Black & Silver	FAZ10500	3'-6"x12'-10"x10'-11"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	1/L-10
	TE6	Cardio	Black & Silver	KPX225	9'x2'-9"x6'(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	2/L-10
	TE7	Pull Up Bars	Black & Silver	FAZ10300	5'-11"x12'-10"x10'-11"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	3/L-10
	TE8	Cross Trainer	Black & Silver	KPX125	5'x2'-2"x6'(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	4/L-10
	TE9	Cycle Trainer	Black & Silver	KPX129	5'-7"x2'-7"x5'-3"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	1/L-11
	TE10	Twist & Step	Black & Silver	FST220	17'-10"x1'-6"-7"x4'-6"(HT.)	Kompan Inc. or Approved Equal (800)426-9788 USSales@kompan.com	Installation per manufacturer's recommendation	4/L-11

NOTES: CONTRACTOR TO SUBMIT SAMPLES OF SILVER & BLACK EXERCISE EQUIPMENT FOR APPROVAL. ORANGE COLOR WILL NOT BE ACCEPTED

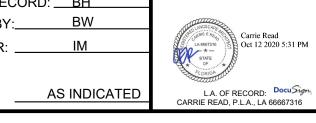
OFFICE OF CAPITAL IMPROVEMENT PROJECTS ADDRESS: 1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

PROJECT: BRITTANY BAY PARK RENOVATION

6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141



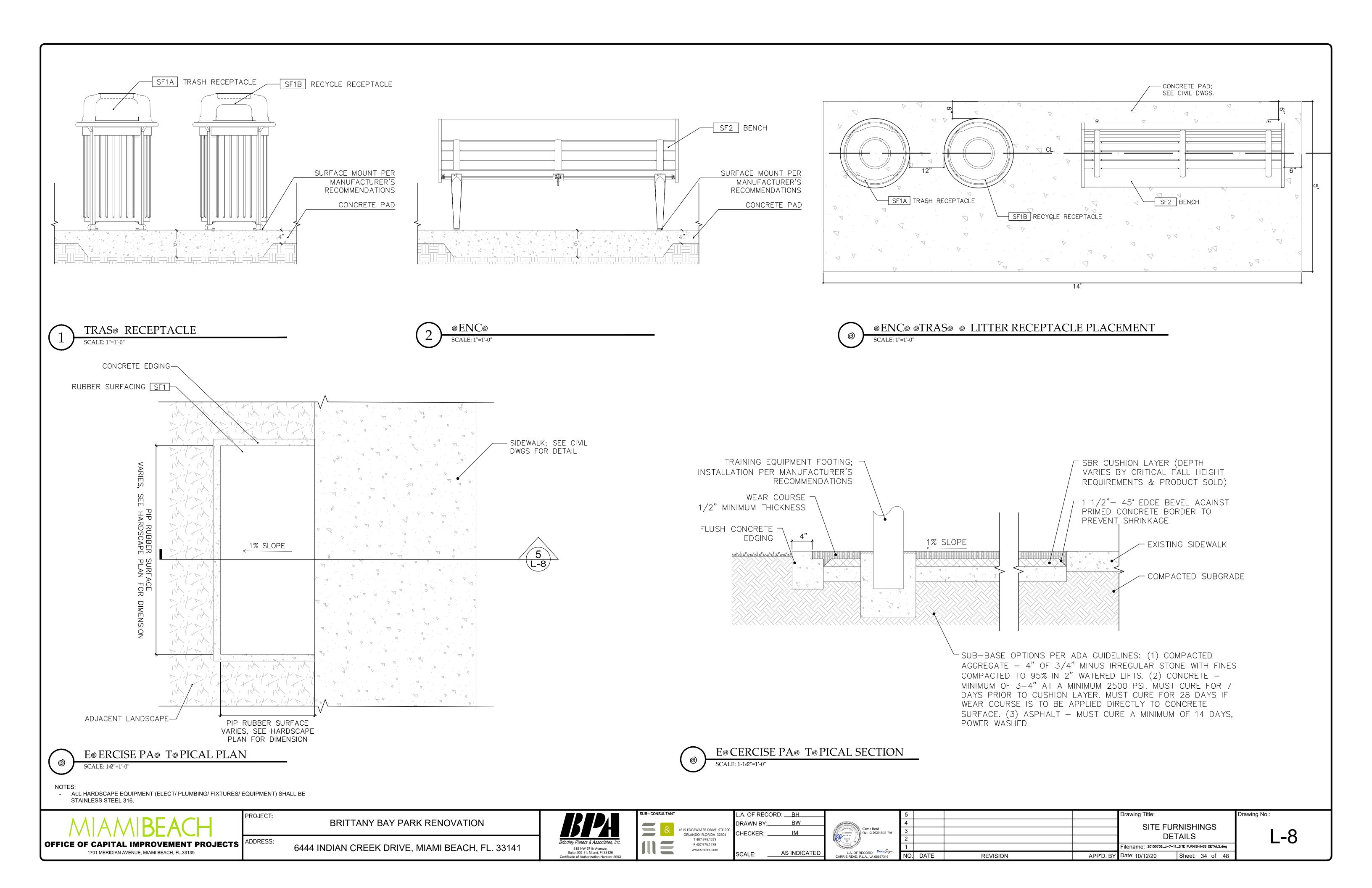


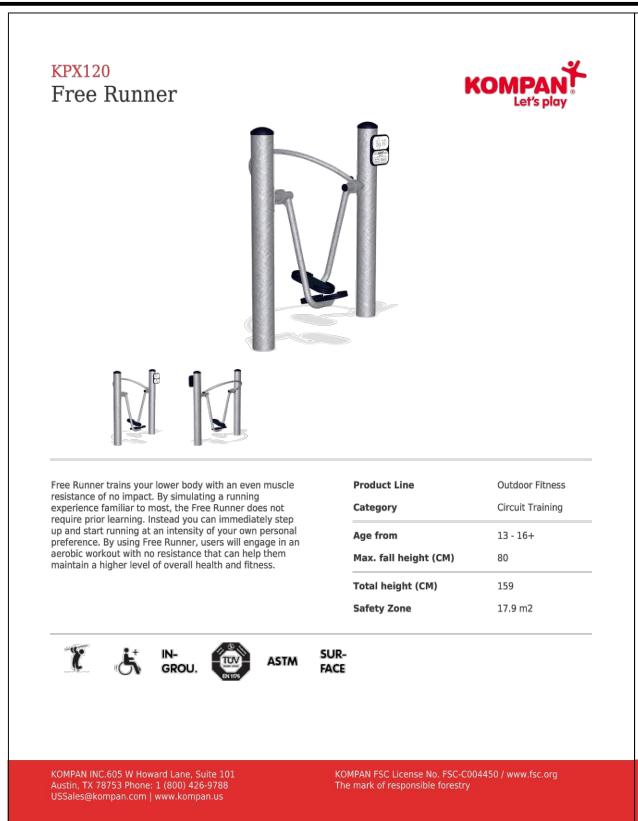


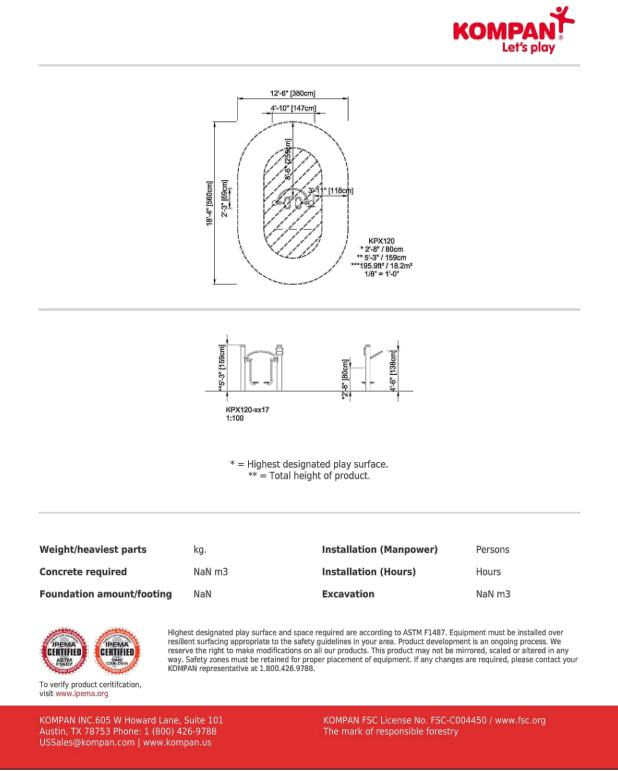
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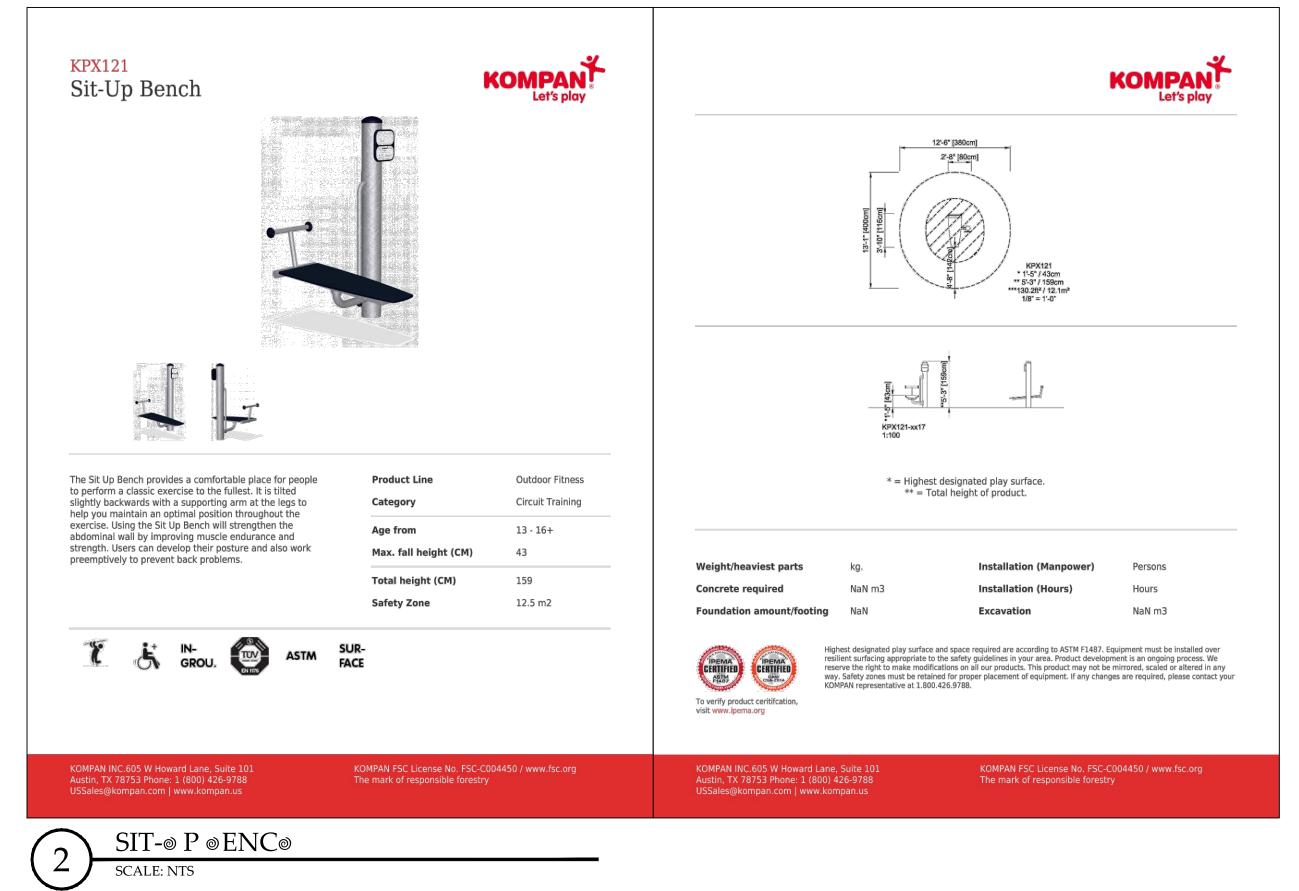
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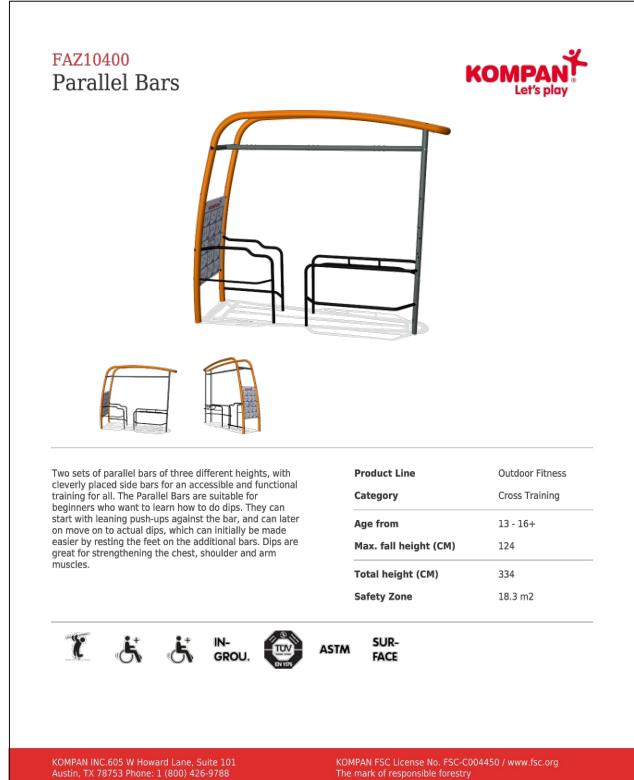
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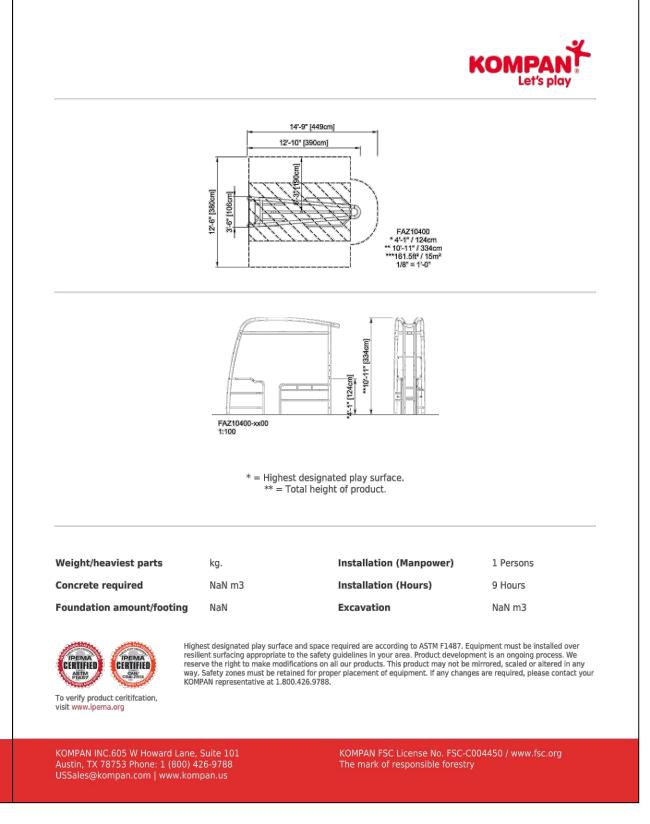












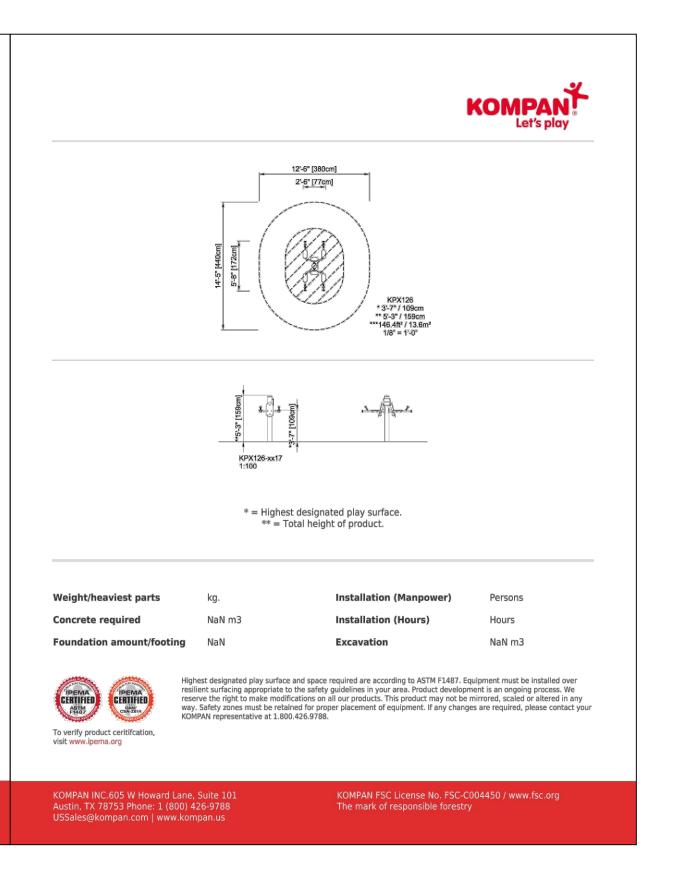


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**OFFICE OF CAPITAL IMPROVEMENT PROJECTS** 

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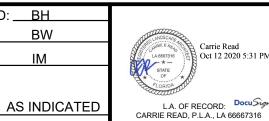
PROJECT: **BRITTANY BAY PARK RENOVATION** 

6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141

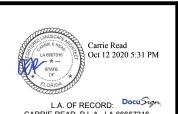
815 NW 57 th Avenue. Certificate of Authorization Number 59

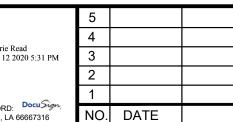






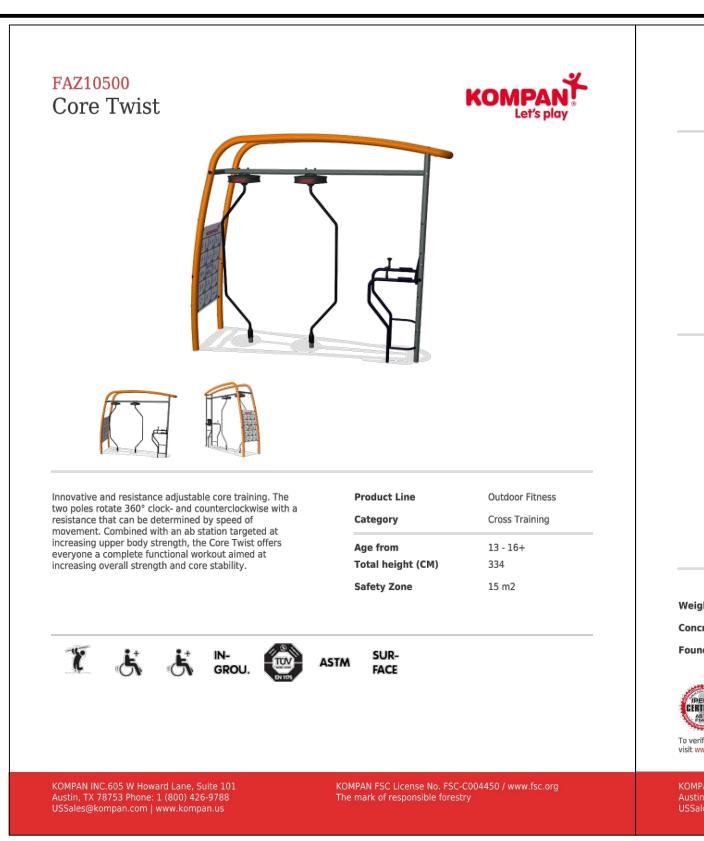
KOMPAN FSC License No. FSC-C004450 / www.fsc.org The mark of responsible forestry

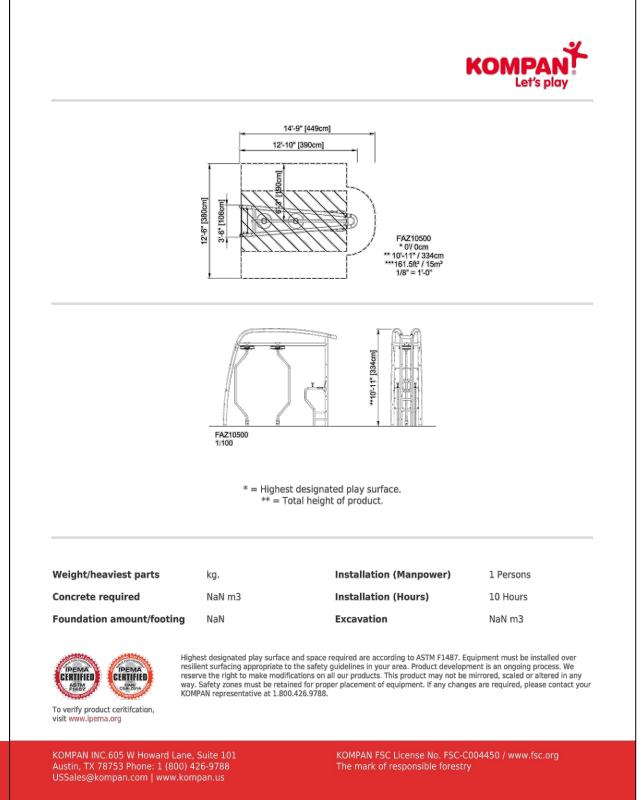


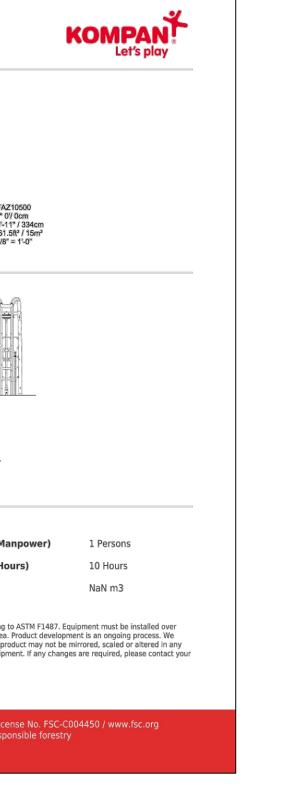


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KPX225

Cardio

The Cardio is two exercise station sin one: Free Runner

focus is on your lower body, as both beginners and

experienced users can step up and run freely at an

intensity entirely defined by them. It requires no prior

of your exercising. It will invite you to use your entire

your bodily strength and flexibility.

Austin, TX 78753 Phone: 1 (800) 426-9788 USSales@kompan.com | www.kompan.us

CAR<sub>®</sub> IO

SCALE: NTS

learning or instructions. The Cross Trainer offers a mild

resistance where you can personally define the intensity

body during your training. Therefore you will find yourself building a high overall fitness level as well as increasing

INGROU. ASTM SURFACE

simulates a running experience familiar to most of us. The

Product Line

Max. fall height (CM)

Total height (CM)

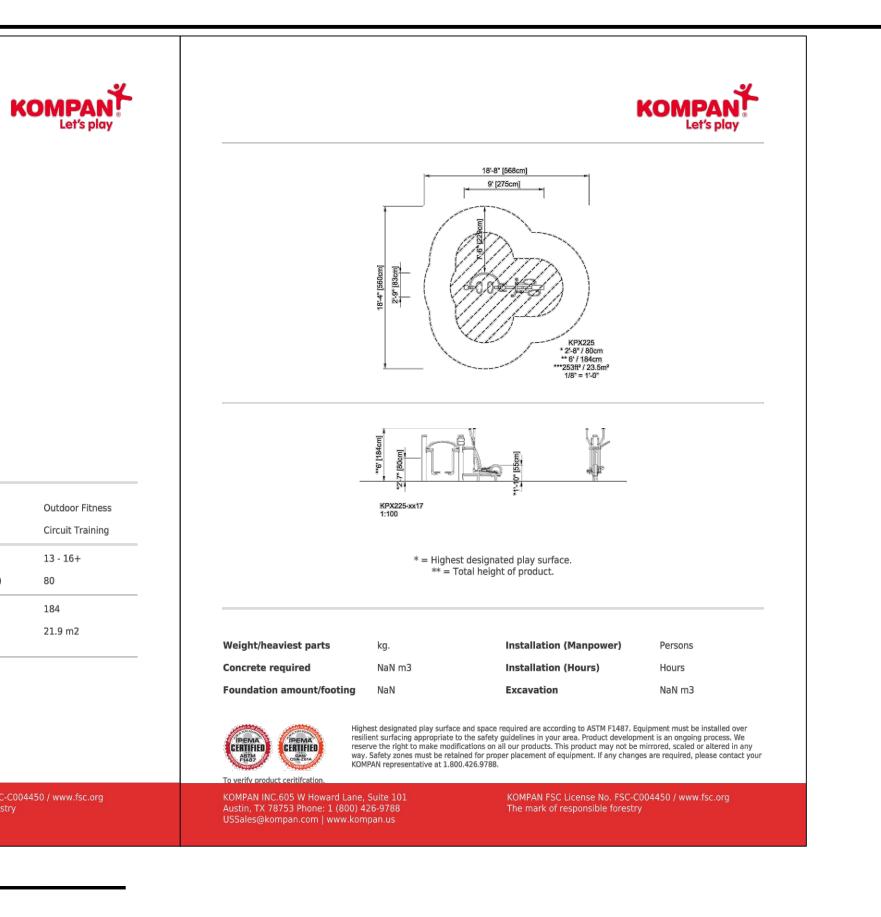
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13 - 16+

184

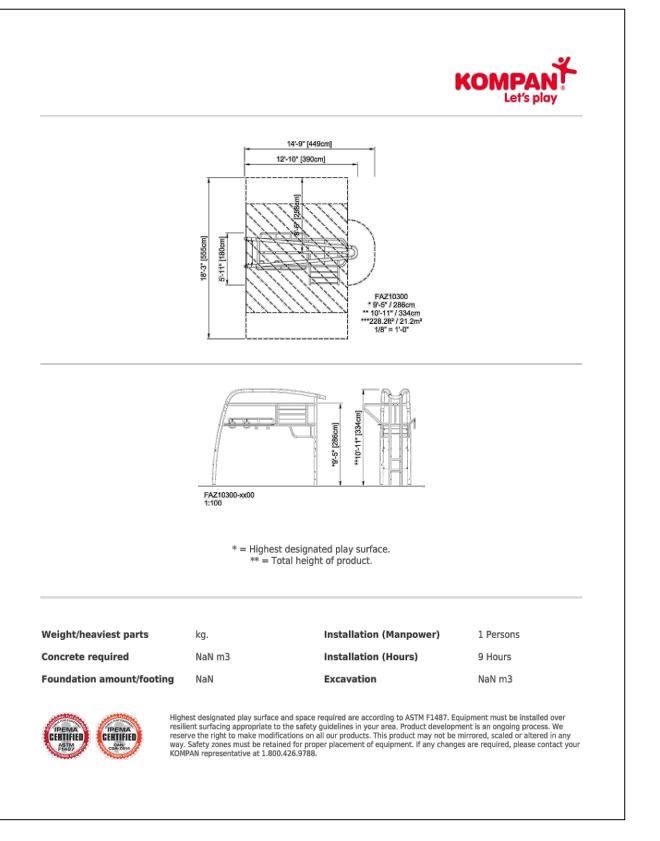
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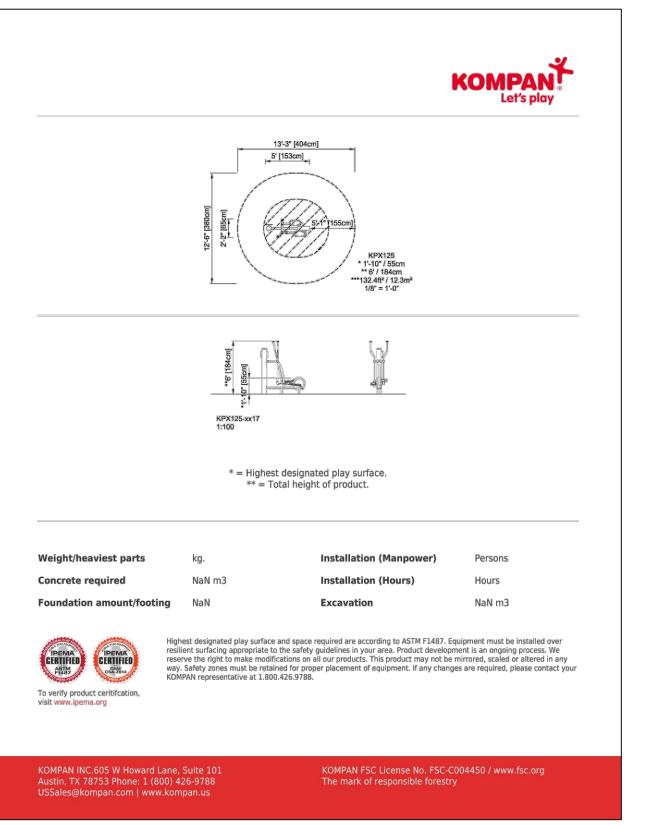












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SITE FURNISHINGS

**DETAILS** 

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**OFFICE OF CAPITAL IMPROVEMENT PROJECTS** 

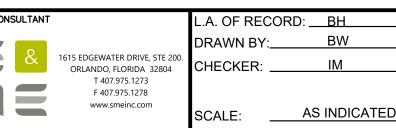
1701 MERIDIAN AVENUE, MIAMI BEACH, FL.33139

PROJECT: **BRITTANY BAY PARK RENOVATION** 

6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141







SCALE: NTS

CROSS TRAINER

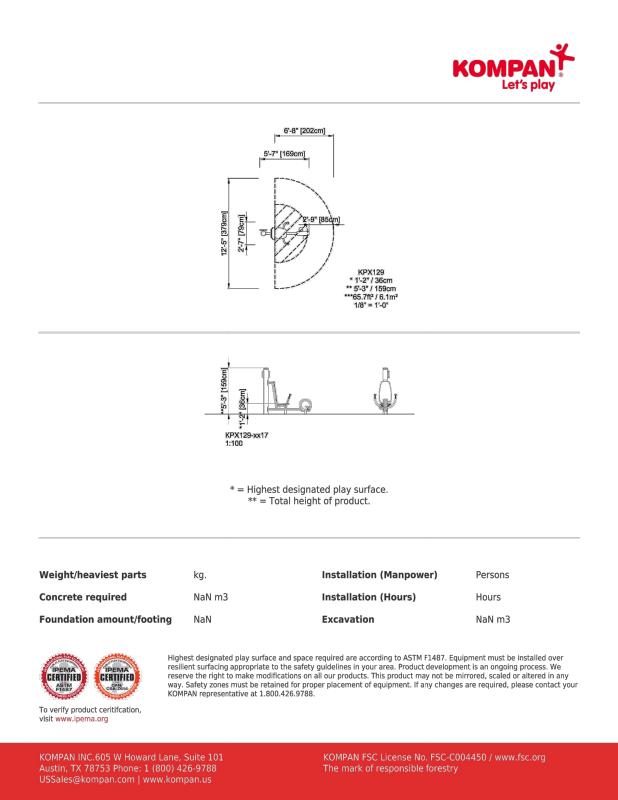


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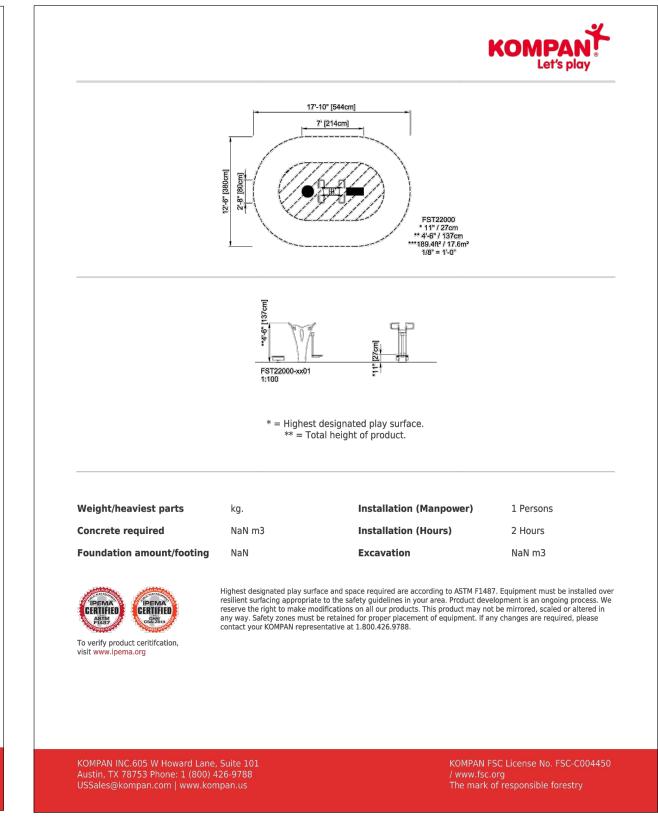
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## **INSTALLATION INSTRUCTIONS**

All **SM** (surface mount) products are designed to be installed on the surface of a new or existing concrete slab. Your contractor needs to provide a 1 1/2" PVC drain line (when applicable) and water line thru finish grade. Connections are made to our SM products thru our access door, as shown on detail drawings. The water tubing is provided with a ½" male iron pipe connection. This is an excellent location for a cutoff valve. Surface Mount units are anchored to the existing concrete by means of ½" concrete shields with bolts or we recommend ½" quick bolts.

Most Dependable Fountains, Inc.™

**Note:** We offer an <u>optional</u> template which is designed to be poured in the concrete slab. It comes with the necessary vandal resistant stainless steel bolts and washers needed to anchor.

All **DB** (direct bury) products are designed to be installed to a depth of 14" below grade. MDF provides 1 ½" PVC drain line inside the pedestal (when applicable) to point of connection by others. MDF also provides reinforced nylobraid flexible tubing with a ½" male iron pipe thread for connection to water supply by others. MDF recommends an optional valve box using a PVC conduit to the pedestal. By using this option you have complete control of your product.

Individual detail drawings available Online or by request.



For more information: Most Dependable Fountains, Inc.™ www.mostdependable.com Info@mostdependable.com 800-552-6331 901-867-0039

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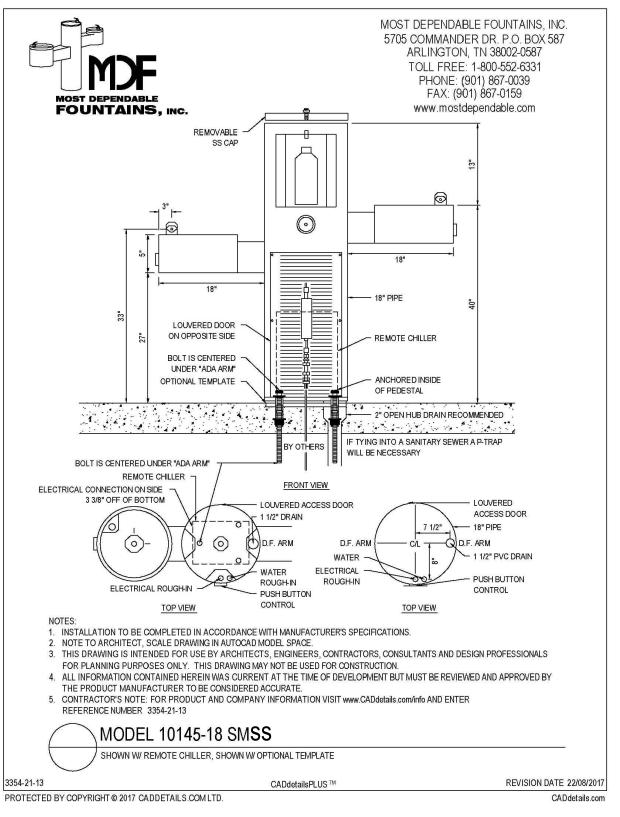


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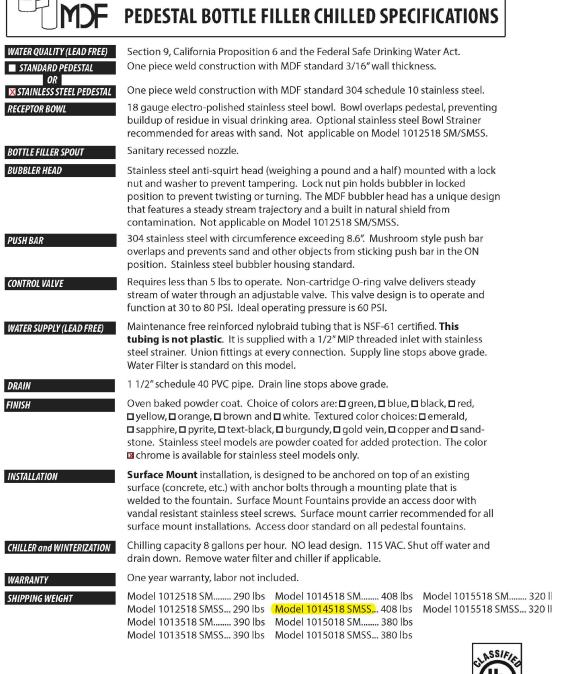
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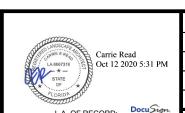
MOST DEPENDABLE FOUNTAINS, INC.™ (800) 552-6331 • (901) 867-0039 • Fax (901) 867-4008 5705 COMMANDER DR. • ARLINGTON, TN 38002-0587 www.mostdependable.com

**BRITTANY BAY PARK RENOVATION** 

815 NW 57 th Avenue. ertificate of Authorization Number

1615 EDGEWATER DRIVE, STE 200. ORLANDO, FLORIDA 32804 T 407.975.1273 F 407.975.1278 www.smeinc.com

AS INDICATED

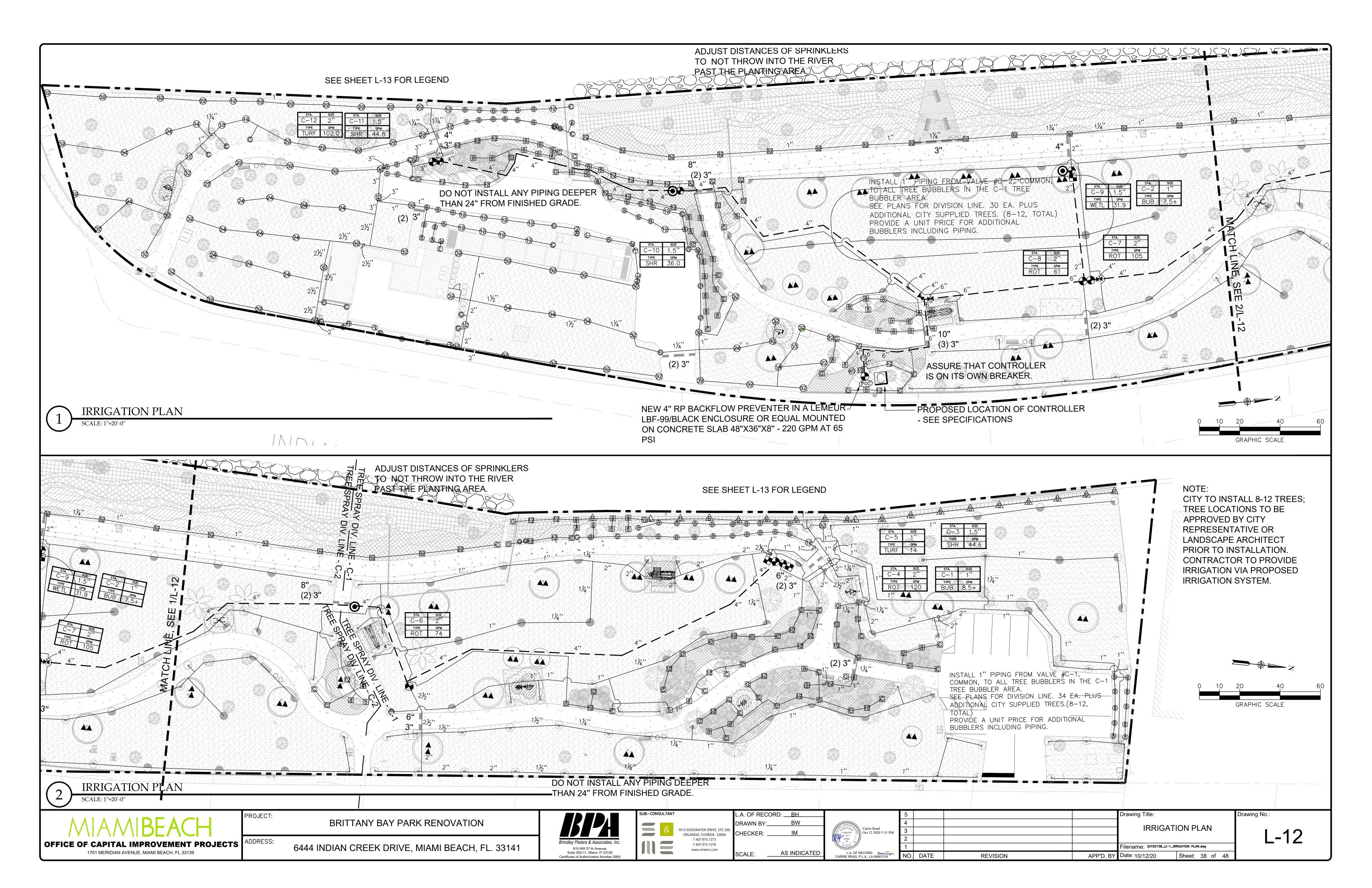


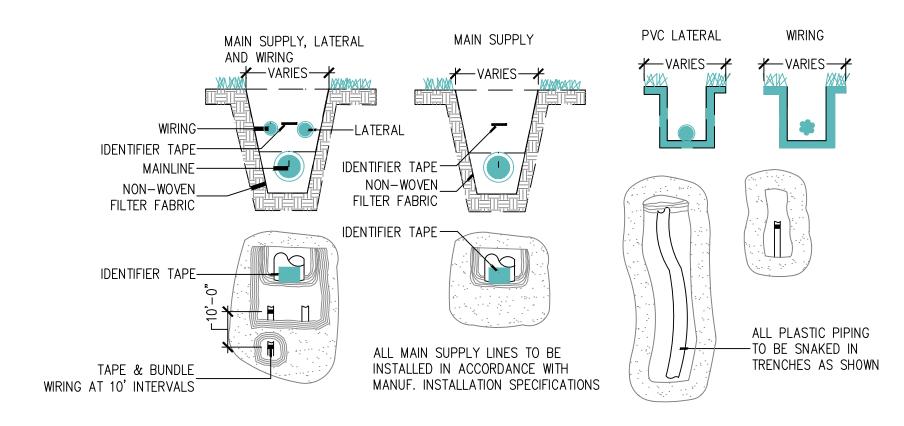
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6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141

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#### PIPE AND WIRE TRENCH CONFIGURATION SCALE: N.T.S.

PIPE SIZE (inches)	90° BEND (Sq. Ft.)	45° BEND (Sq. Ft.)	22½° BEND (Sq. Ft.)	11¼° BEND (Sq. Ft.)	TEE OR PLUG (Sq. Ft.)	DESIGN PRESSURE (P.S.I.)
2	.5	.3	.2	.1	.4	150
2.5	.8	.4	.2	.1	.6	150
3	1.2	.6	.3	.2	1.0	150
4	2.0	1.0	0.5	0.25	1.4	150
6	4.0	2.2	1.1	0.6	2.9	150

NOTE: Thrust block areas computed on basis of 2000 lbs. per sq. ft. soil resistance bearing.

### 2 SCHEDULE OF THRUST BLOCK AREAS SCALE: N.T.S.

- 1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
- 2. EXTEND THRUST BLOCK FOR FULL LENGTH OF FITTINGS. PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE. JOINTS SHALL NOT BE COVERED BY THRUST BLOCK.
- 3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCKS.
- 4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT.
- 5. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE.
- 6. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE.
- 7. INSTALL A PLASTIC BEARIER (VISQUINE) BETWEEN FITTINGS AND THRUST BLOCK.



#### LEGEND

- RAIN BIRD 1401 BUBBLER
- RAIN BIRD 1804-SAM WITH HUNTER MPLCS-515 NOZZLE
- RAIN BIRD 1804-SAM WITH HUNTER MPRCS-515 NOZZLE
- RAIN BIRD 1804-SAM WITH HUNTER MPSS-530 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MP800SR-90 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MPCORNER NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MP1000-90 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MP1000-210 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MP1000-360 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MP2000-90 NOZZLE

RAIN BIRD 1806-SAM WITH HUNTER MP2000-360 NOZZLE

RAIN BIRD 1806-SAM WITH HUNTER MPRCS-515 NOZZLE

- RAIN BIRD 1806-SAM WITH HUNTER MP3000-90 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MP3000-360 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MPLCS-515 NOZZLE
- RAIN BIRD 1806-SAM WITH HUNTER MPSS-530 NOZZLE
- RAIN BIRD 1812-SAM WITH HUNTER MP800SR-90 NOZZLE
- RAIN BIRD 1812-SAM WITH HUNTER MP800SR-360 NOZZLE
- RAIN BIRD 1812-SAM WITH HUNTER MPCORNER NOZZLE
- RAIN BIRD 1812-SAM WITH HUNTER MP1000-90 NOZZLE
- RAIN BIRD 1812-SAM WITH HUNTER MP2000-90 NOZZLE
- RAIN BIRD 1812-SAM WITH HUNTER MP3000-90 NOZZLE
- RAIN BIRD 5006+-SAM-6.0 FC SPRINKLER
- RAIN BIRD 5006+-SAM-4.0 PC SPRINKLER
- RAIN BIRD 5006+-SAM-3.0 PC SPRINKLER
- RAIN BIRD 5006+-SAM-1.5 PC SPRINKLER
- RAIN BIRD 5006+-SAM-20LA FC SPRINKLER
- RAIN BIRD 5006+-SAM-1.5LA PC SPRINKLER
- RAIN BIRD 5006+-SAM-1.0LA PC SPRINKLER
- RAIN BIRD 5-NP QUICK COUPLING VALVE IN A LOCKING VALVE BOX
- RAIN BIRD PESB-100-PRS-D 1" GLOBE ELECTRIC VALVE
- RAIN BIRD PESB-150-PRS-D 1.5" GLOBE ELECTRIC VALVE
- RAIN BIRD PESB-200-PRS-D 2" GLOBE ELECTRIC VALVE
- POINT OF CONNECTION AND 4" REDUCED PRESSURE BACKFLOW PREVENTER TO CODE IN LEMEUR BF-99/BLACK ENCLOSURE OR EQUAL - 220 GPM AT 75 PSI REQUIRED UPSTREAM OF BFP
- RAIN BIRD ESP-LXME 16 STATION CONTROLLER WITH BLACK LXMMSS ENCLOSURE AND LXMMSSPED PEDESTAL WITH (WIRELESS) WEATHER STATION ON A 4" PRESSURE TREATED POST SECURED WITH CONCRETE UNDERGROUND LOCATED IN THE WEATHER NEAR THE CONTROLLER AND COMPATIBLE WITH THE CONTROLLER. SEE
- SPECIFICATIONS FOR WEATHER STATION TYPE.
- 4" SADDLE TYPE FLOW SENSOR OUTPUT TO BE COMPATIBLE WITH CONTROLLER
- CL 200 GASKETED PVC MAIN LINE ROUTING
- LINE SIZE GATE VALVE
- CL 200 OR BETTER SOLVENT WELD PVC ZONE PIPE ROUTING

SCH 40 PVC SLEEVE LOCATION (SIZED ON PLANS)

STA. SIZE C-# #''

VALVE PROGRAMMING, SIZE, APPLICATION AND GALLONAGE





BRITTANY BAY PARK RENOVATION 6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141

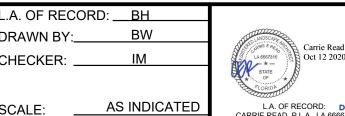


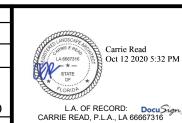


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#### <u>NOTES</u>

INSTALL ALL PIPING SHOWN BETWEEN DIFFERENT PIPE SIZES AS THE LARGER SIZED PIPE.

INSTALL ALL PIPING TO INDIVIDUAL HEADS AS 3/4".

INSTALL PIPING BETWEEN THE LAST MARKED PIPE AND PIPING TO INDIVIDUAL HEADS (WHERE NO OTHER MARKINGS SHOW) AS 3/4".

ANY IRRIGATION ITEMS NORMALLY INSTALLED IN LANDSCAPE AREAS THAT ARE SHOWN OUTSIDE OF LANDSCAPE AREAS OR OUTSIDE OF THE PROPERTY LINES ARE SHOWN AS SUCH FOR GRAPHIC CLARITY ONLY. INSTALL THESE ITEMS INSIDE OF PROPERTY LINES AND IN LANDSCAPE AREAS.

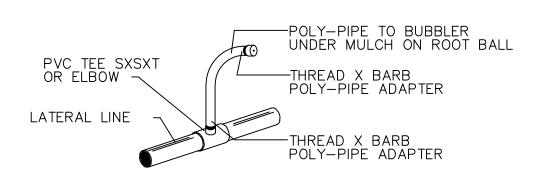
THIS SYSTEM REQUIRES 220 GPM AT 65 PSI AT THE POINT OF CONNECTION. VERIFY GALLONAGE AND PRESSURES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE COMMENCING WITH THE INSTALLATION.

PROVIDE PROOF TO THE LANDSCAPE ARCHITECT THAT ALL AVAILABLE MAINTENANCE MANUALS FOR EACH OF THE PRODUCTS INCLUDED IN THIS INSTALLATION HAVE BEEN PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE.

ADJUST THE IRRIGATION SYSTEM COMPONENTS AND EXISTING SYSTEM TO PROVIDE UNIFORM COVERAGE. ASSURE THAT THE SYSTEM PROVIDES 100% COVERAGE OF ALL LANDSCAPE MATERIALS INCLUDING SHRUBS, GROUND COVER, TREES AND TURF.

GENERAL NOTES

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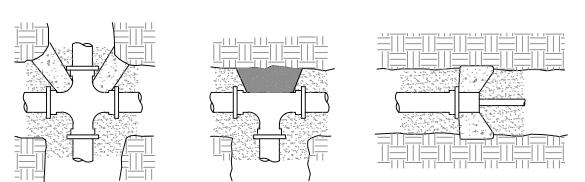


NOTE: INSTALL 2 BUBBLERS PER TREE.

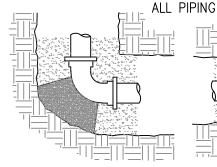
NOTE: INSTALL BUBBLERS ON OPPOSING SIDES OF TREE BALL.

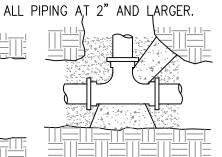
NOTE: USE VIRGIN POLYETHYLENE PIPE. NO "FLEX PVC" WILL BE ALLOWED.

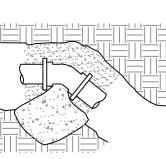


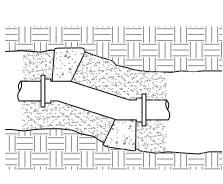


THRUST BLOCKS ARE TO BE CONSTRUCTED WITH 3,000 PSI CONCRETE AT 48 HRS. STEEL REINFORCING RODS WILL BE REQUIRED IF SURROUNDING SOIL HAS A BEARING VALUE OF LESS THAN 2,000 PSF. THRUST BLOCKS REQUIRED AT ALL FITTINGS AND DIRECTION CHANGES ON MAIN LINES AND











ADJUST THE VERTICAL ORIENTATION OF SPRINKLERS ON SLOPES TO PROVIDE UNIFORM COVERAGE OF THE SLOPED AREA.

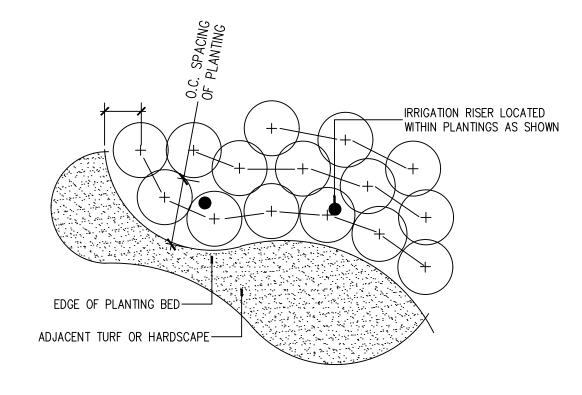
AFTER FINAL SYSTEM ADJUSTMENTS HAVE BEEN MADE, APPLY "SUPER GLUE" TO ALL VARIABLE ARC NOZZLES TO AID IN KEEPING THE ADJUSMENT OF THE SPRAY. DO NOT APPLY THE GLUE IN AREAS THAT MIGHT HINDER THE ADJUSMENT OR MAINTENANCE OF ANY SPRINKLER.

IRRIGATION HEADS SHALL BE LOCATED MINIMUM ONE (1) FOOT FROM ANY WALL, COLUMN, OR BUILDING EDGE/FACE.

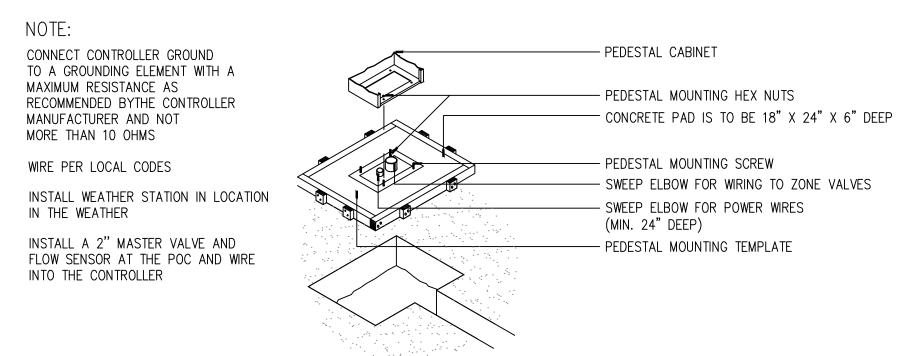
IRRIGATION HEADS SHALL BE DIRECTED AWAY FROM BUILDING AT ALL TIMES, SO THAT SPRAY DOES NOT HIT BUILDING FACE, COLUMN, WALL, ETC.

ANY EXISTING TREE ROOTS, WHEN ENCOUNTERED DURING INSTALLATION OF UTILITIES, SHALL BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS AND COVERED WITH SOIL AS SOON AS POSSIBLE TO REDUCE DEHYDRATION. THE CONTRACTOR/DEVELOPER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.

PROVIDE HAND WATERING FOR ESTABLISHMENT PERIOD FOR ALL TREES NOT LOCATED IN IRRIGATED AREAS OR THAT DO NOT HAVE BUBBLERS INSTALLED AT THOSE TREES.



SPRAY/ROTOR LAYOUT IN SHRUB BED: PLAN



EDESTAL MOUNT CONTROLLER INSTALLATION SCALE: N.T.S.

INSTALL THE SYSTEM IN ACCORDANCE WITH THE APPLICABLE LOCAL LANDSCAPE AND IRRIGATION STANDARDS AND CITY'S IRRIGATION REQUIREMENTS.

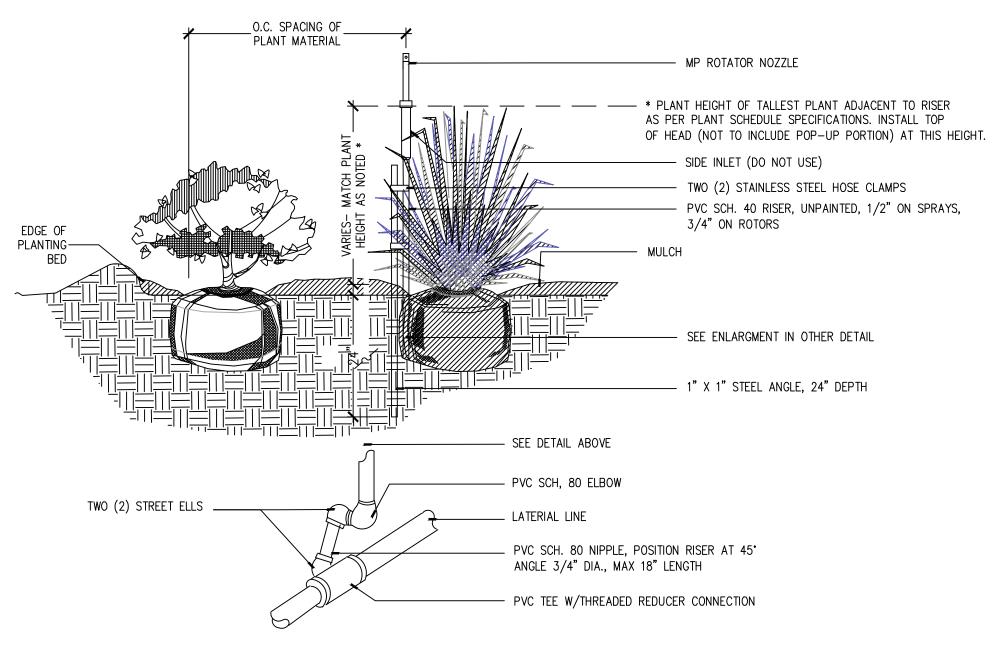
INSTALL ALL MAIN LINE PIPING FROM THE POC TO THE GATE VALVES ACROSS THE ROAD NEAR THE POC AS RESTRAINED JOINT PIPING.

INSTALL MARLEX STREET ELLS FOR ALL ROTORS, ALL HEADS ON RISERS AND ALL SPRINKLERS IN TURF.

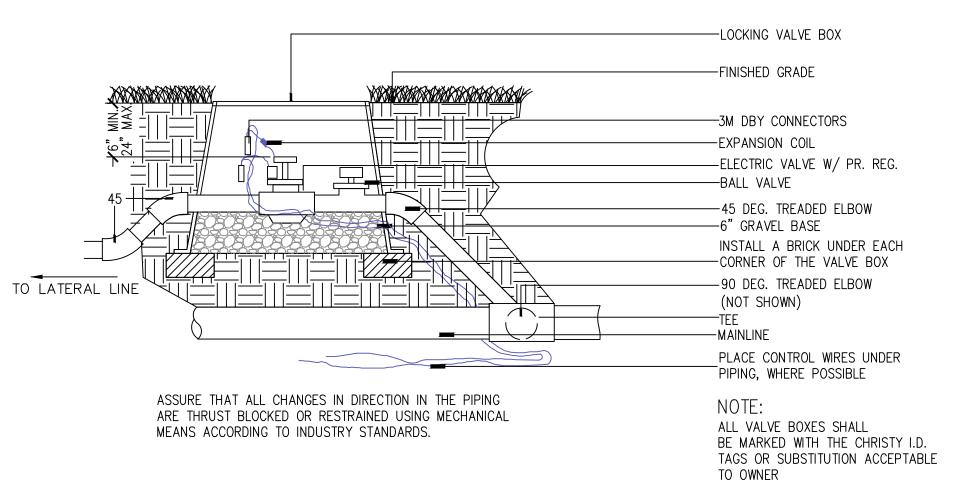
INSTALL ALL OTHER SPRINKLERS WTH VIRGIN POLYETHYLENE AND SBE-050 FITTING. (USE SBE-075 IF THREADED FITTING ON PIPE IS 3/4".)

CONNECT TO THE 4" POTABLE STUB-OUT AS THE POINT OF CONNECTION.

ALL IRRIGATION HEADS IN SHRUBS/GROUNDCOVER AREAS SHALL BE INSTALLED ON RISERS. SEE DETAILS.







ONE VALVE INSTALLATION SCALE: N.T.S.

PROJECT: BRITTANY BAY PARK RENOVATION

815 NW 57 th Avenue. Certificate of Authorization Number



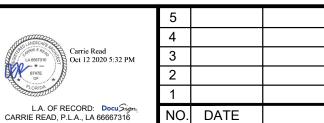
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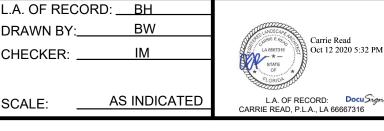


6444 INDIAN CREEK DRIVE, MIAMI BEACH, FL. 33141

BRITTANY BAY PARK RENOVATION







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SLEEVE DETAIL SCALE: N.T.S.

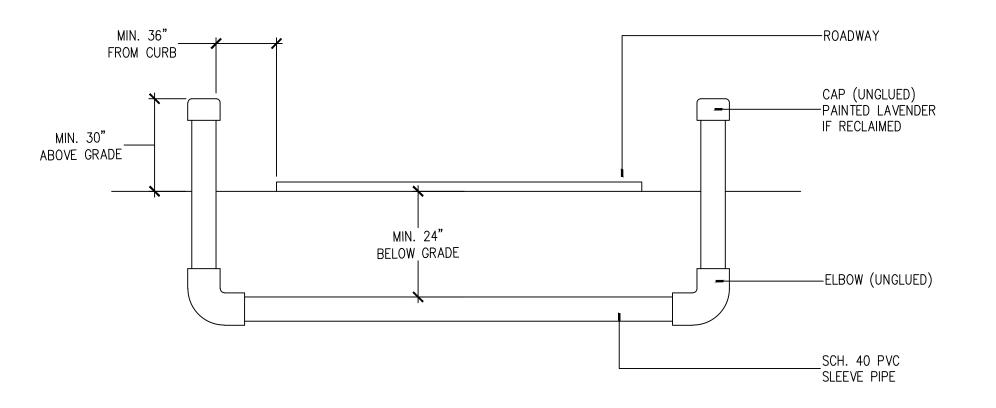
12" SPRAY HEAD AT GRADE DETAIL



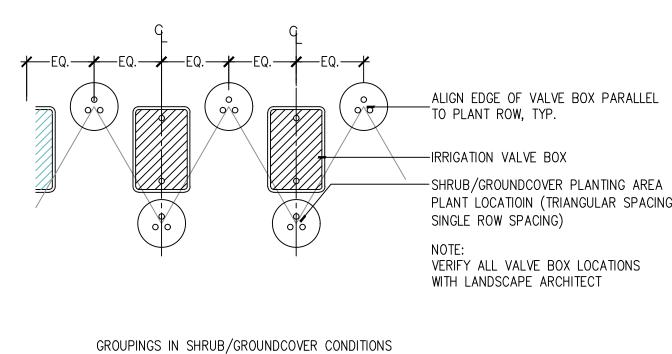
NO VALVE BOXES ARE ALLOWED IN TURF AREAS.

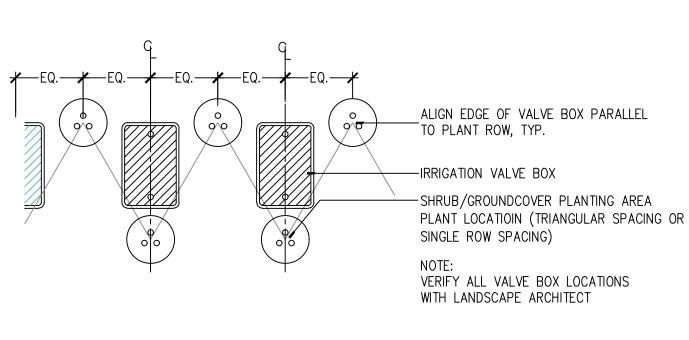
6" SPRAY HEAD AT GRADE DETAIL

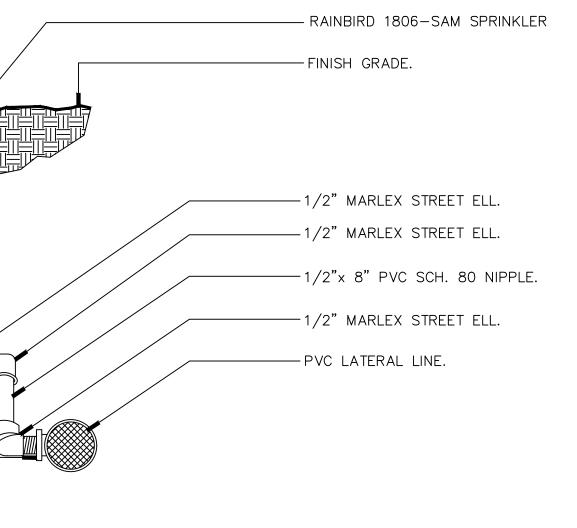
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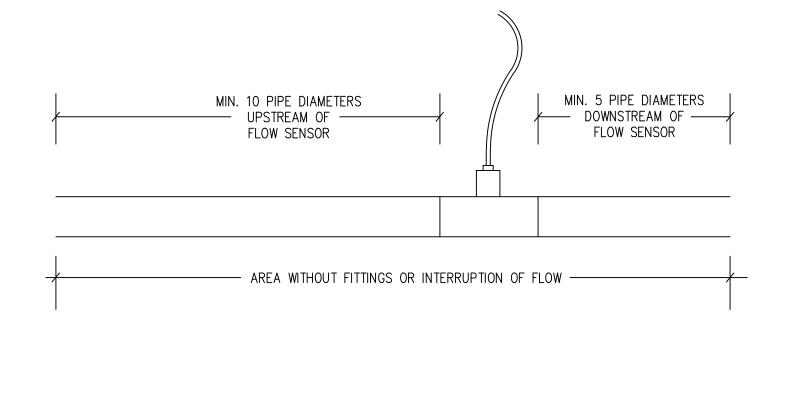


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LOW METER MINIMIMUM DISTANCE SCHEMATIC

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- ROTOR NOZZLE

— FINISH GRADE.

- RAINBIRD 5006-SAM SPRINKLER

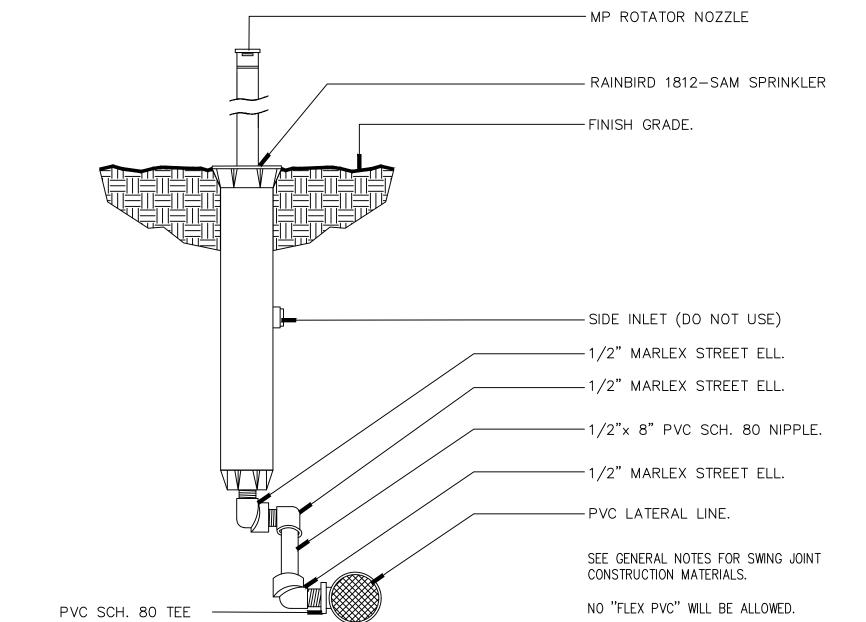
- 3/4" MARLEX STREET ELL.

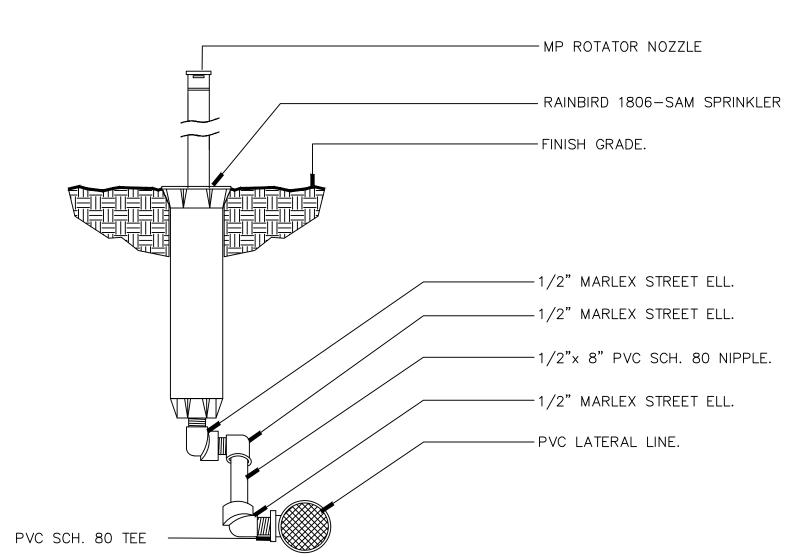
- 3/4" MARLEX STREET ELL.

-3/4" MARLEX STREET ELL.

— PVC LATERAL LINE.

-3/4" x 8" PVC SCH. 80 NIPPLE.







PVC SCH. 80 TEE -

#### PART 1 — GENERAL

DESCRIPTION

FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND TRANSPORTATION, UNLESS OTHERWISE SPECIFIED, NECESSARY TO PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR LANDSCAPE PLANT MATERIALS AND TURF AND MULCH AREAS.

APPLICABLE STANDARDS

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS \$376.1, "DESIGN, INSTALLATION AND PERFORMANCE OF UNDERGROUND, THERMOPLASTIC IRRIGATION PIPELINES."

ASTM D2774, "UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING."

ASTM D1785, POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPE, SCHEDULES 40, 80, AND 120.

ASTM D2241 POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPE (SDR-PR).

WHEREVER BRAND NAMES ARE USED IN THESE SPECIFICATIONS. USE ONLY THE BRAND SPECIFIED. MAKE NO SUBSTITUTIONS AS A PART OF THIS BID

PART 2 - MATERIALS

FURNISH ALL UNDERGROUND PIPING AS PVC EXCEPT FOR THE FLEXIBLE POLYETHYLENE (POLY PIPE) PIPING THAT IS TO BE USED BETWEEN THE LATERALS AND SPRINKLER HEADS. ALL MAIN LINE PVC PIPE SHALL BE GASKETED SDR 21 (CL 200) PVC AND ALL ZONE PIPE SHALL BE CL 200 PVC OR BETTER.

SIZE EACH SLEEVE AT LEAST TWICE (2X) THE SIZE OF THE PIPE BEING ROUTED THROUGH IT EXCEPT FOR 6" PIPE WHICH REQUIRES A 10" SLEEVE. INSTALL EACH CONTROL WIRE SLEEVE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES BEING ROUTED THROUGH IT UNDER THE AREA SPECIFIED. CONSULT WITH THE OWNER OR OWNER'S REPRESENTATIVE FOR THE LOCATION, DEPTH, NUMBER AND SIZE OF ANY AVAILABLE EXISTING SLEEVES.

INSTALL ANY ABOVE GROUND PIPE AS D.I.P. OR GALVANIZED PIPE.

PIPE FITTINGS

FOR MAIN LINE PVC PIPE FITTINGS, USE HARCO D.I.P. GASKETED PUSH-ON FITTINGS AND USE THREADED FITTINGS FOR CONNECTION TO VALVES.

FOR PVC ZONE PIPE, USE SCHEDULE 40, SOLVENT WELD FITTINGS. MANUFACTURED FROM PVC 12454-B COMPOUND AND TESTED IN ACCORDANCE WITH ASTM D2466, EXCEPT FOR THREADED FITTINGS. FOR THREADED APPLICATIONS, USE SCHEDULE 80 FITTINGS MANUFACTURED FROM PVC 12454- B COMPOUND AND TESTED IN ACCORDANCE WITH ASTM D2467.

CONNECT ALL "POLY PIPE" AND RISER ASSEMBLIES TO THE IRRIGATION PIPELINE WITH A SCHEDULE 80 TEE, AS DESCRIBED ABOVE.

DO NOT USE MALE ADAPTERS FOR ANY APPLICATIONS. INSTEAD, USE A "TOE" NIPPLE GLUED INTO A SCHEDULE 40 COUPLER.

SEE DETAILS FOR SPRINKLER TO PIPE CONNECTIONS. NO "FLEX PVC".

SOLVENT CEMENT AND PRIMER

USE A MEDIUM OR HEAVY BODY GRAY SOLVENT CEMENT MANUFACTURED IN ACCORDANCE WITH ASTM D2564 AND PRIMER MANUFACTURED IN ACCORDANCE WITH ASTM F656.

VALVE BOXES

USE 12 X 18 VALVE BOXES FOR ALL APPLICATIONS.

ELECTRIC VALVES

USE RAIN BIRD ELECTRIC VALVES WITH PRESSURE REGULATORS FOR ALL APPLICATIONS.

WEATHER STATION

INSTALL A WEATHER STATION THAT IS COMPATIBLE WITH THE CONTROLLER AND SENSES RAINFALL, TEMPERATURE AND USES ZIP CODE BASED WEATHER INFORMATION. THE WEATHER STATION SHALL USE THE HARGREAVES FORMULA FOR CALCULATION OF THE PRECIPITATION NECESSARY FROM THE INFORMATION GATHERED.

ADDRESS:

POINT OF CONNECTION

CONNECT TO THE STUBOUT PROVIDED BY THE CITY FOR THE POC. CONTROLLER

USE A CONTROLLER PER THE LEGEND WITH THE FLOW SENSOR AND WEATHER STATIONCOMPATIBLE WITH THE CONTROLLER FOR THIS SYSTEM.

USE U.F. WIRE APPROVED FOR DIRECT BURIAL UNDERGROUND FOR ALL 24 VAC APPLICATIONS.

USE RED #14 AWG WIRE FOR ALL VALVE POWER WIRES.

USE WHITE #14 AWG WIRE FOR ALL VALVE COMMON WIRES.

PART 3 - EXECUTION

A. GENERAL

INSTALL PVC PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REVIEW CONSTRUCTION PLANS WITH THE OWNER OR OWNER'S REPRESENTATIVE BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT/OWNER PRIOR TO INSTALLATION IF THERE IS ANY DOUBT AS TO HEAD LINE OR ZONE PLACEMENT.

INSPECT THE CONSTRUCTION SITE BEFORE ANY WORK BEGINS AND FLAG LOCATIONS OF MAINLINE PIPE, SLEEVES, HEADS AND VALVES FOR REVIEW BY THE LANDSCAPE ARCHITECT/OWNER. FLAGS SHALL BE CLEARLY MARKED OR COLORED TO DESIGNATE THE TYPE OF EQUIPMENT TO BE INSTALLED AT THAT POINT. INSTALLATION SHALL NOT COMMENCE UNTIL THE STAKING/ FLAGGING HAS BEEN APPROVED.

COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO PROVIDE FOR CORRECT APPLICATION OF WATER TO THE PLANT MATERIAL.

PIPE TRENCH CONSTRUCTION

PROVIDE FOR A MINIMUM DEPTH OF COVER OF 18" FOR ALL MAIN LINE PIPE AND 12" OF COVER FOR ALL ZONE PIPE AS MEASURED FROM FINISHED GRADE.

PROVIDE THE MINIMUM DEPTH OF COVER, AS SPECIFIED ABOVE, OVER THE TOP OF THE PIPE BEFORE THE TRENCH IS WHEEL-LOADED.

GROUNDING

GROUND THE CONTROLLER TO A GROUNDING ELEMENT PER LOCAL ELECTRICAL CODES AND A MINIMUM OF 10 OHMS RESISTENCE..

USE A "CADWELD" CONNECTOR TO CONNECT THE WIRING TO THE GROUNDING ELEMENT.

BACK FILL

PROVIDE INITIAL BACK FILL MATERIAL THAT IS FINE-GRAINED MATERIAL FREE FROM COMPACTED EARTH GREATER THAN TWO INCHES IN DIAMETER, ROCKS, OR STONES.

TAMP THE BACK FILL IN LAYERS NOT TO EXCEED SIX INCHES. LIFT AND COMPACT FIRMLY AROUND THE PIPE AND UP TO AT LEAST SIX INCHES ABOVE THE TOP OF THE PIPE. SUFFICIENTLY MOISTEN THE BACK FILL TO PERMIT THOROUGH COMPACTION UNDER AND ON EACH SIDE OF THE PIPE TO PROVIDE SUPPORT FREE FROM VOIDS. AVOID DEFORMING, DISPLACING, OR DAMAGING PIPE DURING THIS PHASE OF THE OPERATION. ASSURE THAT WHEN FINISHED, THE SOIL COMPACTION EQUALS THE ORIGINAL CONDITION.

FITTING AND PIPE CONNECTIONS

SQUARE CUT, CLEAN AND PRIME ALL JOINTS BEFORE CEMENTING.

FULLY ENGAGE ALL JOINTS WHILE CEMENTING.

PVC FITTINGS - MAKE ALL SOLVENT WELD JOINTS IN ACCORDANCE WITH ASTM D2855. PRIME ALL FITTINGS WITH PURPLE PRIMER BEFORE MAKING SOLVENT WELD CONNECTIONS. ALLOW SOLVENT WELDED JOINTS AT LEAST ONE (1) HOUR TO SET UP BEFORE MOVING OR HANDLING. DO NOT PERMIT WATER IN THE PIPE FOR AT LEAST TWENTY-FOUR HOURS AFTER MAKING A SOLVENT WELD ON THAT PIPE UNLESS RECOMMENDED OTHERWISE BY THE SOLVENT CEMENT MANUFACTURER. SEAL ALL THREADED PVC FITTINGS WITH LIQUID TEFLON EXCEPT SPRINKLER HEADS, ELECTRIC VALVE CONNECTIONS AND SWING JOINTS. INSTALL ALL OF THESE EXCEPTIONS USING ONE INCH TEFLON TAPE.

FLUSHING PIPELINES

FLUSH ALL PIPELINES BEFORE DRIP PIPE IS CONNECTED. MAINTAIN A MINIMUM PIPE VELOCITY OF THREE FEET PER SECOND AND FLUSH FOR A MINIMUM TIME OF:

T = 2L/3 WHERE T = TIME IN SECONDS & L = PIPE LENGTH IN FEET FROM INLET POINT TO MOST DISTANT POINT IN PIPELINE.

VALVE INSTALLATION

INSTALL ALL AUTOMATIC ZONE VALVES AND GATE VALVES IN VALVE BOXES. NUMBER EACH ZONE VALVE BOX ON THE UNDERSIDE AND TOPSIDE OF EACH VALVE BOX COVER WITH BLACK WATERPROOF MARKER FOR REFERENCE.

THRUST BLOCKING

THRUST BLOCK PIPING AT ALL CHANGES IN DIRECTION 2" AND LARGER. POUR CONCRETE THRUST BLOCKS SIZED PER INDUSTRY STANDARDS FOR PIPE SIZE. PRESSURE, SOIL TYPE, DEPTH, ETC.

INSTALL A BARRIER (VISQUINE) BETWEEN THE CONCRETE THRUST BLOCK AND THE PIPE AND FITTINGS.

POUR THRUST BLOCKS AGAINST UNDISTURBED SOIL.

INSTALLING ELECTRIC VALVE IDENTIFICATION

ATTACH PERMANENT MARKINGS AT EACH END OF EACH WIRE TO IDENTIFY IT BY VALVE NUMBER.

BEDDING VALVE BOXES

INSTALL 6" OF PEA GRAVEL OR RIVER ROCK IN THE BOTTOM OF EACH VALVE

**INSPECTIONS** 

THE FOLLOWING INSPECTIONS ARE REQUIRED. NOTIFY OWNER OR OWNER'S REPRESENTATIVE IN ADVANCE THAT EACH ITEM IS READY FOR INSPECTION AS INDICATED BELOW:

INSPECTION OF FLAGGED UNDERGROUND MAINLINE PIPING, SLEEVES, SPRINKLER AND VALVE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION -NOTIFY 48 HOURS IN ADVANCE.

COVERAGE TEST - NOTIFY 48 HOURS IN ADVANCE.

FINAL INSPECTION - NOTIFY 48 HOURS IN ADVANCE.

COVERAGE TESTS - CONDUCT SPRINKLER COVERAGE TESTS UNDER NORMAL OPERATING PRESSURE CONDITIONS BEFORE ANY GROUND COVER OR TURF IS PLANTED. CORRECT AND FIELD ADJUST SPRINKLER ORIENTATION TO PROVIDE UNIFORM PRECIPITATION OVER THE IRRIGATED AREA AND MINIMIZE OVER SPRAY ONTO PAVED SURFACES AND BUILDINGS.

SUBMITTALS

CONTROLLER

WEATHER STATION

THE CONTRACTOR SHALL PROVIDE SUBMITTTALS FOR EACH OF THE FOLLOWING

POINT OF CONNECTION ASSEMBLY ITEMS. INCLUDING BFP VALVES FLOW SENSOR GATE VALVES EACH TYPE OF ELECTRIC VALVE QUICK COUPLING VALVE QUICK COUPLING KEY AND HOSE SWIVEL ASSEMBLY ISOLATION BALL VALVE MAIN LINE PIPING ZONE PIPING SLEEVES MAIN LINE FITTINGS ZONE PIPE FITTINGS EACH SPRINKLER CONNECTION TYPE EACH SPRINKLER TYPE EACH SPRINKLER NOZZLE BUBBLERS GROUNDING ITEMS

WEATHER STATION MOUNTING (SHOP DRAWING)

#### WARRANTY

THE CONTRACTOR SHALL ISSUE TO THE OWNER OR OWNER'S REPRESENTATIVE A CERTIFICATE OF WARRANTY OF THE IRRIGATION SYSTEM FOR A PERIOD OF NOT LESS THAN ONE YEAR ON ALL SPRINKLERS, VALVES, THE CONTROLLER, AND HIS LABOR.

DRAWING OF RECORD

THE CONTRACTOR SHALL SUPPLY TO THE OWNER A DRAFTED, SCALED, REPRODUCIBLE PLAN SHOWING ALL CHANGES MADE TO THE EXISTING IRRIGATION SYSTEM AND ALL NEWLY INSTALLED COMPONENTS INCLUDING ALL SPRINKLERS, INCLUDING BODY TYPES AND NOZZLES, PIPE, INCLUDING SIZES AND THE ENDS OF SLEEVING LOCATIONS AS MEASURED FROM AT LEAST TWO FIXED OBJECTS, CONTROLLER, AND WIRE ROUTING. THIS PLAN MAY BE AN ADAPTATION OF THE IRRIGATION DESIGN WITH ANY CHANGES DRAFTED ON THIS PLAN. THE DRAWING SHALL ALSO PROVIDE A MINIMUM OF TWO (2) DIMENSIONS TAKEN FROM FIXED OBJECTS TO EACH AUTOMATIC VALVE AND MANUAL CONTROL VALVE.

ADDITIONAL SUBMITTALS

SUPPLY TO THE OWNER ALL INSTRUCTION SHEETS AND PARTS LISTS COVERING ALL OPERATING AND ELECTRICAL-RELATED EQUIPMENT, BOUND IN ONE FOLDER. FURNISH THE OWNER WITH ANY KEYS FOR LOCKABLE ITEMS ON THIS SYSTEM

QUICK COUPLING KEY AND HOSE SWIVEL

PROVIDE THE OWNER WITH A QUICK COUPLING KEY THAT CORRESPONDS TO THE QUICK COUPLING VALVES AND WITH A HOSE SWIVEL ASSEMBLY BUILT ONTO THE QUICK COUPLING KEY.

MISCELLANEOUS

ANY IRRIGATION ITEMS NORMALLY INSTALLED IN LANDSCAPE AREAS THAT ARE SHOWN OUTSIDE OF LANDSCAPE AREAS OR OUTSIDE OF THE PROPERTY LINES ARE SHOWN AS SUCH FOR GRAPHIC CLARITY ONLY. INSTALL THESE ITEMS INSIDE OF PROPERTY LINES AND IN LANDSCAPE AREAS. CONTACT THE OWNER OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF IN ANY DOUBT OF HEAD, LINE OR ZONE PLACEMENT.

ASSURE THAT THE SYSTEM PROVIDES 100% COVERAGE OF ALL LANDSCAPED AREAS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE COMMENCING WITH THE INSTALLATION.

THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR FIELD CHANGES.

ALL APPLICABLE CODES SHALL TAKE PRECEDENCE OVER THESE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE CODES.

PECIFICATIONS

SCALE: N/A

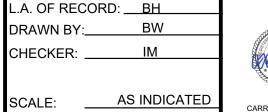
OFFICE OF CAPITAL IMPROVEMENT PROJECTS

PROJECT: BRITTANY BAY PARK RENOVATION

Certificate of Authorization Numb









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