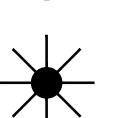
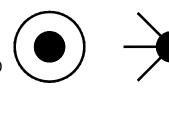
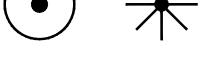
LANDSCAPE ARCHITECT: Christopher Cabezas

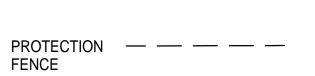
REGISTRATION NO. RLA 6667347











5. RELOCATION SPECIFICATIONS

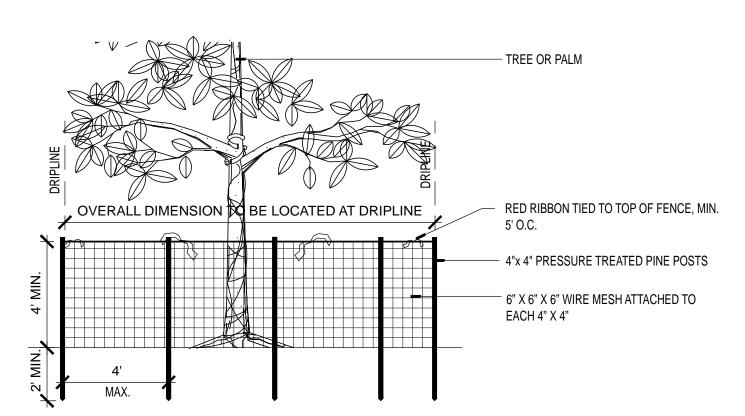
5.1. GENERAL

- 5.1.1. VERIFY AND ENSURE ALL TREES/PALM IDENTIFIED ON THE CONSTRUCTION DRAWINGS AND THOSE TAGGED IN THE FIELD CORRESPOND AS TO NUMBER AND DESCRIPTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY, PRIOR TO PREPARATION.
- 5.1.2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR TREE/PALM PROTECTION OF ALL VERIFIED MATERIAL. INSTALL BARRICADE OF GALVANIZED WELDED WIRE FABRIC OR PLASTIC MESH TO ENCOMPASS THE DRIP LINE OF THE TREE PALM. BARRICADE TO BE REMOVED WHEN DIRECTED BY LANDSCAPE ARCHITECT.
- 5.1.3. TREE ROOT BALL SHALL BE ROOT PRUNED 50% (EQUALLY AROUND TREE) 60 DAYS PRIOR TO TRANSPLANT. THE REMAINING 50% TO BE PRUNED 30 DAYS PRIOR TO TRANSPLANTING.
- 5.1.4. PALMS TO BE RELOCATED MAY BE IMMEDIATELY RELOCATED AFTER DIGGING. GUMBO LIMBO (BURSERA SIMARUBA) TREES MAY ALSO BE RELOCATED IMMEDIATELY AFTER DIGGING.
- 5.1.5. ROOT TO BE PRUNED WITH CLEAN, SHARP TOOLS. ROOTS 1 INCH AND LARGER IN DIAMETER SHALL BE NEATLY AND CLEANLY CUT WITH A HANDSAW OR OTHER APPROVED CUTTING IMPLEMENT AS DIRECTED BY AN ISA OR ASCA CERTIFIED ARBORIST.
- 5.1.6. LANDSCAPE CONTRACTOR TO APPLY MYCORRHIZA APPLICATION TO ROOTS DURING ROUTE PRUNING AND DIGGING OPERATIONS. ALL PRUNING TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PRUNING.
- 5.1.7. DEADWOOD, CROSSING BRANCHES, AND GENERAL CANOPY PRUNING SHALL BE PERFORMED OR DIRECTED BY AN ASA OR ASCA CERTIFIED ARBORIST IN ACCORDANCE WITH THE LATEST VERSION OF THE ANSI A-300 PRUNING STANDARDS AND GOOD HORTICULTURAL PRACTICES IMMEDIATELY AFTER COMPLETION OF ROOT PRUNING OF EACH SPECIMEN TO BE RELOCATED. ALL PRUNING TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PRUNING.
- 5.1.8. ROOT BALL SIZE TABLE: (NOTE: ROOT BALL SIZES SHELL EXCEED MINIMUM STANDARDS SET FORTH IN GRADES AND STANDARDS FOR NURSERY PLANTS, PART TWO, PALMS AND TREES, FLORIDA DEPARTMENT OF AGRICULTURE").

OF AGRICULTURE).	
EE/PALM CALIPER	MINIMUM ROOTBALL DIAMETER
1" -1 ½"	16"
1 ½" - 1 ¾"	20"
1 ³ / ₄ " - 2"	24"
2" - 2 ½'	28"
$2\frac{1}{2}$ " - $3\frac{1}{2}$ "	32"
3 ½" - 4"	36"
4" - 4 <u>1</u> "	40"
4 ½" - 5"	44"
5" - 5 ½"	48"
ΓBALL OF LARGER CALIPER	SIZES SHALL BE INCREASED PROPORTIO
	INTODE A OF A INTOLLING OAT IDED OD ED A

OF ROOTBALL DIAMETER FOR EVERY INCREASE OF 1 INCH IN CALIPER OR FRACTION THERE OF.

- 5.1.9. MAINTAIN COMPACT ROOT BALLS. ROOT BALL SHALL BE COMPLETELY ENCLOSED WITHIN A BURLAP COVERING OR STRETCH WRAP AS COMMONLY USED WITHIN THE HORTICULTURAL INDUSTRY, INTO COMPLETE LAYERS.
- 5.1.10. ALL TREES TO BE FLOODED FOR FIVE DAYS PRIOR TO TRANSPLANT.
- 5.1.11. ALL PITS TO BE FILLED THE SAME DAY AND WITH CLEAN FILL AND 18 INCH LIFT/LAYERS, EACH THEN COMPACTED BEFORE A SUBSEQUENT 18 INCH LIFT/LAYER IS PLACED. REPEAT UNTIL BACKFILL IS FLUSH WITH SURROUNDING GRADE.
- 5.1.12. CORRECT ALL PROBLEMS RELATED TO SETTLEMENT, EROSION, OR OTHER DISTRESS OF EXCAVATED/BACKFILLED PIT FROM WHICH TREE/PALM HAS BEEN REMOVED, INCLUDING THE COMPLETE AND THOROUGH REMOVAL OF ALL RESIDUAL ROOTS, STUMPS AND PORTIONS AND PARTS THERE OF.
- 5.1.13. RESTORE THE SURFACE WITH MATERIAL TO MATCH ADJACENT AREAS. MATERIAL TO BE APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE A MINIMUM ONE-YEAR WARRANTY ON SETTLING AND PLANT MATERIAL.
- 5.1.14. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL INCLUDING BUT NOT LIMITED TO
- BACKFILL MATERIAL, PROTECTION FENCING, FLAGGING, ROOT BALL BURLAP OR SHRINK WRAP. 5.1.15. ALL RELOCATED TREES AND PALMS MUST BE WATERED TWICE DAILY FOR 2 WEEKS AND DAILY FOR AN ADDITIONAL 2 WEEKS, BEGINNING IMMEDIATELY AFTER TRANSPLANTING HAS OCCURRED..



BARRIER TO BE CONTINUOUS AROUND THE TREE OR GROUP OF TREES. SEE LANDSCAPE PLAN FOR LOCATION OF TREES TO REMAIN.

TREE PROTECTION DETAIL $^{\prime}$ ELEVATION

SCALE: N.T.S.

TREE PROTECTION NOTES

NAIL

BUILDING| CORNER

2.7' (EAST)

FENCE CORNER

0.3' (NORTH)_

0.9':(EAST)

- 1. TREE SURVEY BASED ON ALL AVAILABLE INFORMATION. CONTRACTOR TO REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- 2. TREES SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITY THROUGH THE USE OF PROTECTIVE BARRIERS (SEE PROVIDED DETAIL). TREES THAT ARE TO REMAIN SHALL BE CLEARLY IDENTIFIED WITH TAGS. TREE PROTECTION BARRIERS SHALL BE MAINTAINED AROUND THE TREES IN ACCORDANCE WITH THE TREE PROTECTION PLAN APPROVED BY THE DEPARTMENT.

-FOUND %" IRC OSO

ASPHALT

IRON

NK FENCE

- 3. PRIOR TO AND DURING DEMOLITION, DEVELOPMENT, OR CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED AROUND THE PERIMETER OF EACH TREE'S TPZ AND SHALL REMAIN IN PLACE IN ORDER TO PREVENT THE DESTRUCTION OR DAMAGING OF ROOTS, STEMS OR CROWNS OF SUCH TREES. THE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL APPROVED LANDSCAPE OPERATIONS BEGIN.
- 4. BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE CONSTRUCTION NEEDS, PROVIDED THAT THE MANNER AND PURPOSE FOR SUCH TEMPORARY REMOVAL WILL NOT HARM
- 5. THE TREES SHALL BE PROPERLY IRRIGATED THROUGHOUT THE BUILDING PROCESS.
- 6. NO PRUNING OF TREES SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
- 7. CONTRACTOR SHALL VERIFY ALL EXISTING ABOVE AND UNDERGROUND UTILITIES 48 HOURS PRIOR TO ANY ON-SITE EXCAVATION.
- 8. CONTRACTOR TO COORDINATE DEMOLITION PLAN WITH ARCHITECTS
- 9. ANY PLANT MATERIAL SCARRED OR DESTROYED THAT IS DESIGNATED TO REMAIN MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH SIMILAR SPECIES AND QUALITY.

Tree Number	Botanical Name	Common Name	DBH (Inches)	Height (FT)	Canopy (FT)	Disposition	Condition
1	Bursera simruba	Gumbo Limbo	16"	20'	25'	Remain	Good
2	Cocos nucifera	Coconut Palm	12"	25'	25'	Relocate	Good
3	Cocos nucifera	Coconut Palm	12"	25'	25'	Relocate	Good
4	Quercus virginiana	Live Oak	16"	25'	25'		Offsite
5	Quercus virginiana	Live Oak	16"	25'	25'		Offsite
6	Quercus virginiana	Live Oak	16"	25'	25'		Offsite
7	Quercus virginiana	Live Oak	12"	20'	20'		Offsite

EXISTING BUILDING

135.00'

N89°17'55"E

WOOD FRAME

 $\times 15.59$

S89°1X'55"W

OVERHANG

ADDITION

CATCH BASIN

GRATE: 15,44

 $\times 15.78$

 $\times 15.69$

ASPHALT



EXISTING BUILDING —

12'x6' ROLLING GATE -

CHAIN

FENCE

LINK —

- BUILDING CORNER

0.5' (SOUTH)

CONCRETE AND

ASPHALT AREA

- CHAIN LINK FENCE

135.0

 $\times 15.35$

CHAIN LIK

PLANT SYMBOLS

 $\times 14.98$

-PRM FOUND

0.45′ (N) 0,30′ (E)

BENCH

ELEV. 15.01

MARK

₩4′×6′ GAT

 $\times 15.11$

— SHRUBS ^J

_PARKING

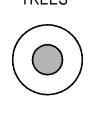
AREA

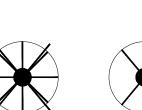
-EDGE OF

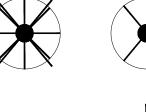
PAVEMENT

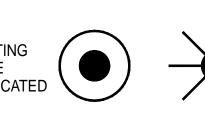
TO REMAIN

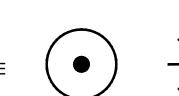
SCALE: 1/8" = 1'- 0"

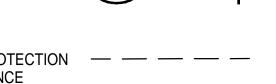












TREE DISPOSITION Scale: 1/8" = 1' - 0"

Drawn By: CC Checked By: CC

Date: 01/15/2020 SHEET NUMBER:

GENERAL LANDSCAPE NOTES AND SPECIFICATIONS LANDSCAPE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SCOPE OF WORK AS WELL AS THE SITE, DIGGING CONDITIONS, AND ANY OBSTACLES PRIOR TO SUBMITTING LANDSCAPE CONTRACTOR SHOULD VERIFY ALL ESTIMATED QUANTITIES OF MATERIAL SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS PRIOR TO SUBMITTING A BID. 3. PLANT LIST SHALL TAKE PRECEDENCE OVER PLANTING PLAN IN CASE OF DISCREPANCIES. 4. ALL PLANT MATERIAL SYMBOLS SHOWN ON LANDSCAPE PLANS SHALL BE CONSIDERED TO AVOID ALL UTILITIES AND ALL OTHER OBSTRUCTIONS.

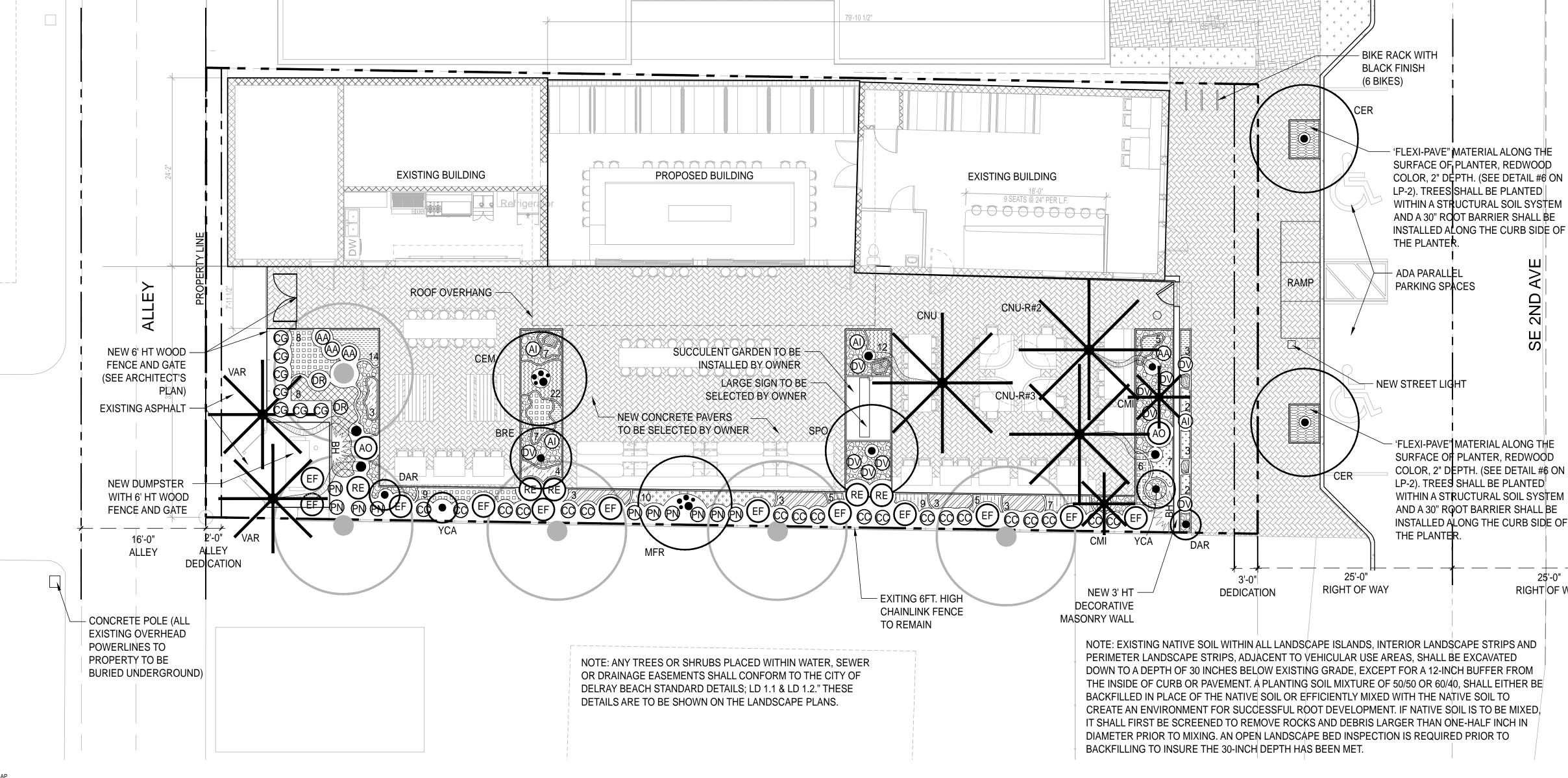
- DIAGRAMMATIC AND SHOULD BE ADJUSTED IN THE FIELD BY LANDSCAPE CONTRACTOR
- 5. ALL SIZES SPECIFIED FOR PLANT MATERIAL ON THE PLAN AND PLANT LIST SHALL BE CONSIDERED MINIMUM.
- 6. ALL PLANT MATERIAL MUST MEET OR EXCEED THE SPECIFIED MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD.
- 7. ALL MATERIAL SHALL BE SUBJECT TO AVAILABILITY AT TIME OF INSTALLATION. .
- 8. ALL TREES, PALMS, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR A

PERIOD OF 6 MONTHS FROM DATE OF FINAL ACCEPTANCE.

- 9. LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY ALL UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO DIGGING.
- 10. LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, THE REMOVAL OF ALL BUILDING CONSTRUCTION DEBRIS AND FOREIGN MATERIAL PRIOR TO INSTALLATION OF ANY PLANT MATERIAL
- 11. SITE PREPARATION SHOULD INCLUDE THE ERADICATION AND REMOVAL OF ANY WEEDS OR GRASS, REMOVAL AND CLEAN UP OF ANY DEAD MATERIAL AND ROUGH AND FINISH GRADING PER SPECS AND OR LANDSCAPE PLANS.
- 12. FOR PLANT MATERIAL DESIGNATED TO BE REMOVED, THE ENTIRE ROOT SYSTEM SHALL
- 13. ALL PLANTING AREAS SHOULD RECEIVE AN 80/20 MIX FILL SOIL. SAND USED IN

BE DUG AND REMOVED FROM THE SITE.

- PLANTING SOIL MIX SHALL BE SILICA SAND. 14. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS SET FORTH IN THE
- FLORIDA DEPARTMENT OF AGRICULTURE 'GRADES AND STANDARDS FOR NURSERY PLANTS" SECOND EDITION FEB. 1998 INCLUDING REVISIONS AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE AND DETAILS.
- 15. ALL TREES SHALL BE STAKED IN A GOOD WORKMANLIKE MANNER. NO NAIL STAKING PERMITTED. (REFER TO BRACING NOTES AND PLANTING DETAILS)
- 16. AFTER REMOVAL OR RELOCATION OF EXISTING TREES AND PALMS, ALL REMAINING HOLES SHALL BE BACK FILLED AROUND AND UNDER ROOT BALL.
- 17. ALL EXISTING PLANT MATERIAL TO REMAIN, SHALL BE PROTECTED DURING ALL CONSTRUCTION PHASES. ANY PLANT MATERIAL SCARRED OR DESTROYED DESIGNATED TO REMAIN MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH SIMILAR SPECIES SIZE AND QUALITY.
- 18. ALL TREES AND ALL PLANTING BEDS TO BE TOPPED WITH 3" MIN. "GRADE A" ORGANIC MULCH (MELALEUCA IS PREFERRED), UNLESS OTHERWISE NOTED. (CYPRESS MULCH AND RED MULCH SHALL NOT BE USED).
- 19. ALL TREES SHALL HAVE 2" CALIPER AT D.B.H. MINIMUM FOR A 12' HEIGHT TREE, UNLESS NOTED OTHERWISE.
- 20. ALL 1 GALLON MATERIAL SHALL HAVE 12" SPREAD MINIMUM, ALL 3 GALLON MATERIAL TO HAVE 18-24" SPREAD MINIMUM.
- 21. ALL PLANTING AREAS WITHIN THE LIMITS OF WORK SHALL RECEIVE 100% COVERAGE BY AUTOMATIC IRRIGATION SYSTEM (DRIP PREFERRED) UNLESS OTHERWISE DIRECTED BY OWNER. SEE IRRIGATION PLANS FOR ADDITIONAL SPECIFICATIONS. 22. LANDSCAPE CONTRACTOR TO COORDINATE INSTALLATION OF IRRIGATION SYSTEM
- WITH IRRIGATION CONTRACTOR. IRRIGATION TIME CLOCK TO BE HARD WIRED ON CONTRACTOR SHALL HAND WATER OR ARRANGE FOR WATERING DURING PLANTING UNTIL IRRIGATION SYSTEM IS 100% OPERABLE. THIS IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- 23. LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER APPROPRIATE CONTRACTORS.
- 24. THE LANDSCAPE CONTRACTOR SHALL AT ALL TIMES KEEP THE JOB SITE CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIAL, DEBRIS, AND RUBBISH.
- 25. LANDSCAPE PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES.
- 26. THESE DRAWINGS, DOCUMENTS, AND ALL CONTENTS ARE THE PROPERTY OF CHRIS CABEZAS LANDSCAPE ARCHITECTURE, INC. ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR PRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.
- 27. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY PERMITS OR APPROVALS FROM THE FEDERAL. STATE OR LOCAL GOVERNMENT REQUIRED FOR THE WORK INCLUDED IN THIS CONTRACT AND ON THESE DRAWINGS.
- 28. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORESEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL. EROSION, UTILITY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
- 29. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.



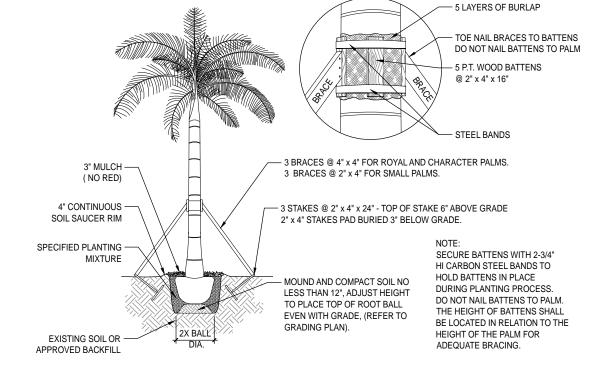
AREA CALCULATIONS

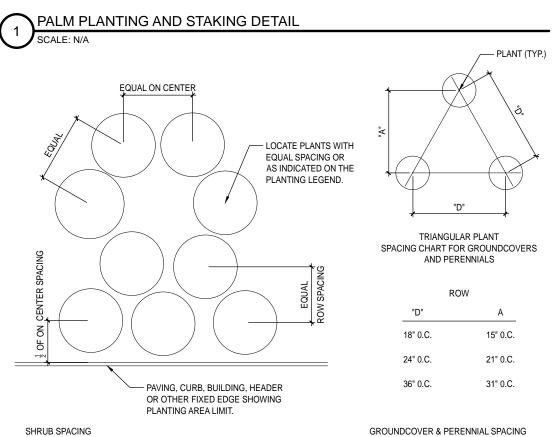
Total Vehicular Use Area

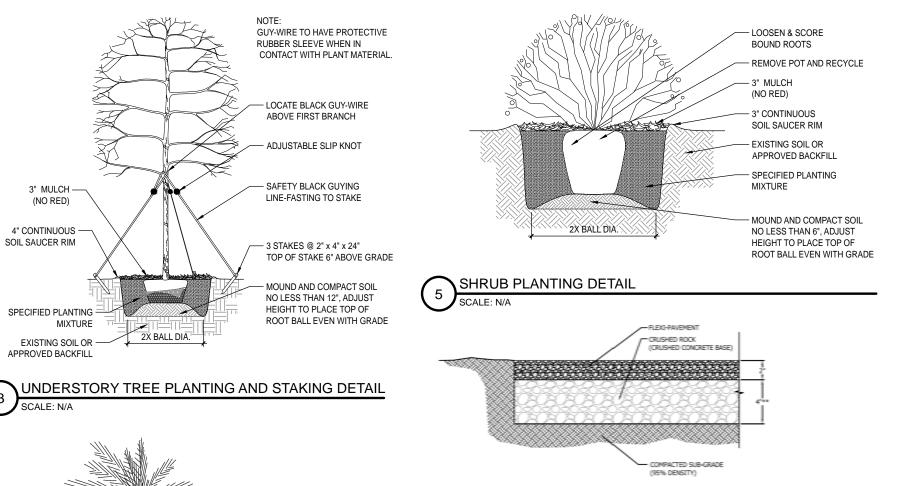
7,712 S.F.

3,600 S.F.

Total Site Area







ROOT BARRIER (SEE NOTES BELOW)

NOTES:

1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.

TYPICAL TREE WITH ROOT BARRIER (LD 1.1)

2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.

3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.

4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

<u>L</u>		Native (25%) provid
		Interio 1 Tree Requir Lands
	COMPACTED SUB-GRADE (95% DENSITY)	Native
	FLEXI-PAVEMNT DETAIL (KB INDUSTRIES OR APPROVED EQUAL)	
	SCALE: N/A NOTE: FLEXI-PAVE OR EQUAL FLEXIBLE PAVING. COLOR-REDWOOD OR TO MATCH EXISTING	
	FLEXIBLE PAVEMENT ALONG ATLANTIC AVENUE.	
	NOTES: OCTY FACILITIES (MAINS, SERVICES, ETC.)	
	1. THIS DISTANCE SHALL BE 10' MINIMUM FROM ALL CITY FACILITIES IF NO ROOT BARRIER IS USED.	
	7 TYPICAL TREE WITHOUT ROOT BARRIER (LD 1.2) SCALE: N/A	

Celebrative Accelebration and Schollered	7/555	0.74 m	CEM	1 -	Conocarpus erectus	Green Buttonwood	V	√	16' HT, 8' CT, 7' SPR	Multi-trunk with Character
Total Impervious Area	6,461	S.F.	CER	2	Conocarpus erectus	Green Buttonwood	√	√	16' HT, 8' CT, 7' SPR	Standard; 6' Straight Trun
Total Pervious Area	1,251 S.F.		SPO	1	Senna polyphylla	Desert Cassia			10' HT, 4' SPR	Standard; 6' Straight Trun
Total Landscape Area	1,091 S.F.		MFR	2	Myrcianthes fragrans	Simpson's Stopper	√	√	10-12' HT, 5' CT, 5' SPR	Multi-trunk with Character
Street Frontage	58 L	"F.			100 100 100 100 100 100 100 100 100 100	Taranta da da manana				771 371 271 151 151 151 151 151 151 151 151 151 1
		PALMS	QTY	Scientific Name	Common Name	Native	Drought Tolerant	Specs	Notes	
LANDSCAPE REQUIREMENTS - COMMERCIAL		BRE	1	Beaucarnea recurvata	Ponytail Palm	11		6-8' HT	With Character	
DESCRIPTION	Required/ Allowed	Provided	СМІ	2	Coccothrinax miraguama	Same			6-8' HT, 4-5' CT	The state of the state
Street Trees 1 Tree / 30 L.F.	2	2	CNU	1	Cocos nucifera	Coconut Palm	V	√.	16-18' HT Min.	To Match Existing Cocor
nterior Landscape Area	360 S.F.	1,051 S.F.	CNU-R	2	Cocos nucifera	Coconut Palm	V	√	18' HT	Relocated From Onsite
10% of VUA)	300 5.1	1,031 5.17.	VAR	2	Veitchia arecina	Montgomery Palm			16-18' HT Min.	Single
Total Shrubs / Groundcover 30% of total interior andscape area)	315 S.F.	1051 S.F.	LARGE		Const. Sant S	Carl and Carlos	- 6x.c.(6)	Drought	Units.	Ques-
Vative Vegetation	1200	W	SHRUBS	QTY	Scientific Name	Common Name	Native	Tolerant	Specs	Notes
25% of total shrub area provided)	90 S.F.	+/- 260 S.F.	EF	12	Eugenia foetida	Spanish Stopper	√	√	6-8' HT, Full to Bottom	
			CC	19	Capparis cynophallophora	Jamaican Caper	√	√	3-4' HT, Full to Bottom	
nterior Trees Tree / 125 S.F. of	3	7	PN	10	Psychotria nervosa	Wild Coffee	V	√	3-4' HT, Full to Bottom	
Required Interior Landscaping	3		CG	7	Clusia guttifera	Small Leaf Clusia	√	√	4-5' HT, Full to Bottom	
Native Trees	50%	77%	RE	5	Rhapis excelsa	Lady Palm	1-1-1		3-4' HT, Full to Bottom	
789774 11444	44.0	11.0								
			VINES							
			ВН	2	Bougainvillea 'Hawaiian Torch'	Bougainvillea 'Pink Pixle'		√	3-4' HT, Full to Bottom	
			SHRUBS	QTY	Scientific Name	Common Name	Native	Drought Tolerant	Specs	Notes
			CN	30	Clusia rosea 'Nana'	Dwarf Clusia	V	√	3 Gallon, Full	24" O.C.
			ZZ	7	Zamioculcas zamiifolia	ZZ Plant	11 14	√	3 Gallon, Full	24" O.C.
			PB	10	Philodendron 'Burle Marx'	Same			3 Gallon, Full	24" O.C.
			SC	7	Sansevieria cylindrica	Snake Plant	11 45 7	√	3 Gallon, Full	24" O.C.
			TF	8	Tripsacum floridana	Dwarf Fakahatchee	√	√	3 Gallon, Full	24" O.C.
			DV	10	Dietes vegeta	White African Iris	1 1		3 Gallon, Full	24" O.C.
			DR	2	Dracaena reflexa 'Variegata'	Song of India		√	3 Gallon, Full	24" O.C.
								To a v	August - Northead	Large ve - and a second
			GROUND COVERS	QTY	Scientific Name	Common Name	Native	Drought Tolerant	Specs	Notes
			LM	26	Liriope muscari 'Super Blue'	Lilyturf		√	1 Gallon, Full	12" O.C.
			BF	29	Bulbine frutescens 'Orange'	Desert Candles		√	1 Gallon, Full	12" O.C.
			NF	34	Neoregelia 'Fireball"	Bromeliad		√	1 Gallon, Full	12" O.C.

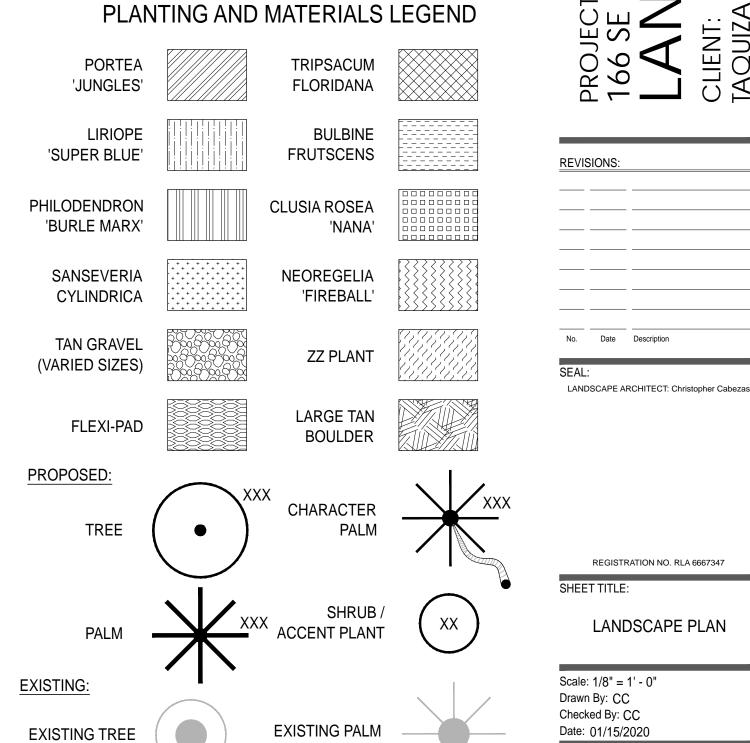
Green Buttonwood

V V 16' HT, 8' CT, 7' SPR Multi-trunk with Character

PLANT SCHEDULE

Conocarous erectus

CEM



RIGHT OF WAY



CABE

HRIS

REGISTRATION NO. RLA 6667347

LANDSCAPE PLAN

Scale: 1/8" = 1' - 0" Drawn By: CC Checked By: CC Date: 01/15/2020

SHEET NUMBER:

PLANT & SHRUB SPACING DETAIL

ROOT WATERING SYSTEM:

INLET SPIRAL BARB ELBOW

FINISH GRADE/TOP OF MULCH

PVC SCH 40 TEE OR EL

1. 4" (10,2 CM) GRATE IS ALSO AVAILABLE IN PURPLE (RWS-GRATE-P).
2. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.

5. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID

UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.

(2) ROOT WATERING SYSTEM

. OPTIONAL SAND SOCK (RWS-SOCK) IS 34" (86,4 CM) IN LENGTH TO COVER MESH BASKET AREA

4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE

DIRECTION OF FLOW ⇒

RAIN SENSOR (RSD-BEX)

1. FITTINGS MAY DIFFER THAN THOSE SHOWN IN DETAIL

FROM PLANTER EDGE

2. INSTALL IN SHRUB AREAS ONLY AND A MINIMUM OF 12"

WATER PIPE SIZE

1 1/4"

1 1/2"

3"

PER APPENDIX F

PIPE SIZE (INCHES)

PIPE SIZE (INCHES)

1/2" TO 1 1/4"

1 1/2" TO 2"

2 1/2" TO 3"

4" OR LARGER

|Pressure psi|

30

40

50

1/2" TO 2 1/2"

3" TO 5"

(1) EAVE OF BUILDING

(4) PLASTIC TIE DOWN STRAP

5)MOUNTING BRACKET

2) RAIN SENSOR: RAIN BIRD RSD-BEX 3) WIRE TO IRRIGATION CONTROLLER

FINISH GRADE

SPECS.

FLORIDA BUILDING CODE- APPENDIX F

SLEEVES TO EXTEND A MIN. 3' BEYOND ALL

FLORIDA BUILDING CODE- APPENDIX F

PIPE INSTALLATION-DEPTH OF COVER

VEHICLE TRAFFIC AREAS

NON-TRAFFIC AND NON-CULTIVATED AREAS

PAVED AREAS, BACKFILL AND COMPACTION

BALL/GATE VALVE

VALVE BOX - SEE IRRIGATION

SPECS. FOR BOX TOP HEIGHT

PVC 45 ELL

- PVC NIPPI F

PEA GRAVEL, 2" DEPTH. LEAVE 1"-2"

VALVE AND TOP OF PEA GRAVEL.

PVC MAINLINE - SEE

BRICK VALVE BOX

SLEEVE SIZE

1 1/2"

2 1/2"

6"

DEPTH OF COVER (INCHES)

18" TO 24"

24" TO 30" 30 TO 36"

DEPTH OF COVER (INCHES)

6" TO 12"

12" TO 18"

18" TO 24"

24" TO 36"

12" Spacing | 18" Spacing

Nominal Flow | Nominal Flow

350 | 248 | 498 | 416

397 | 281 | 573 | 477

436 | 309 | 637 | 529

(gph)

0.6 0.9

402 | 337

254

XFCV Dripline Maximum Lateral Lengths

(gph)

0.6 0.9

136

205

192

289

SUPPORTS (2 MIN.)

FOR PIPE DEPTH

VARIES - SEE IRRIGATION

4 R/P BACKFLOW PREVENTER - HORIZONTAL N.T.S.

4) 4" (10,2 CM) LOCKING GRATE (INCLUDED)

1/2" (1,3 CM) MALE NPT INLET (INCLUDED)

PVC OR POLYETHYLENE LATERAL PIPE

WEAVE CANISTER (INCLUDED)

 $^{\prime}$ 4" (10,2 CM) WIDE X 36" (91,4 CM) LONG RIGID BASKET

OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS

) 12" (30,5 CM) SWING ASSEMBLY (INCLUDED)

RWS-M-B-C-1401: MINI ROOT WATERING SYSTEM WITH 18

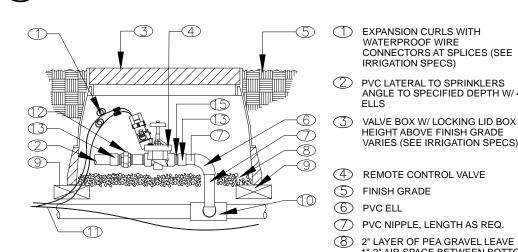
45,7 CM) TUBE, 0.25 GPM (0,95 L/M) BUBBLER & CHECK VALVE ON RISER, 4" (10,2 CM) GRATE, 1/2" (15/21) M NPT

BUBBLER: RAIN BIRD 1401 0.25 GPM (0,95 L/M) (INCLUDED)

IRRIGATION PLAN, NOTES AND DETAILS

Scale: 1/8" = 1' - 0" Drawn By: JS Checked By: CC

1 POP-UP HEAD FINISH GRADE SCH.40 STREET ELI (4) 6" SCH 80 PVC NIPPLE THREADED BOTH ENDS WALK OR CURB 6 PVC SCH 40 TEE OR ELL PVC LATERAL LINE 8 90 DEGREE ELL 9 2" SCH 80 PVC NIPPLE THREADED BOTH ENDS



CONNECTION

REFER TO NOTE "5

- BACKFLOW PREVENTER,

REFER TO NOTE "4"

(BLACK BOXES AND BLACK LIDS)

1. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE

REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.

SIZES SHALL BE PERMITTED. BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND

2. ALL MAINLINE, LATERAL LINE AND CONTROL WIRE CONDUIT UNDER PAVING SHALL BE INSTALLED IN SEPARATE

3. INSTALL ALL BACKFLOW PREVENTION DEVICES AND ALL PIPING BETWEEN THE POINT OF CONNECTION AND THE

4. FINAL LOCATION OF THE BACKFLOW PREVENTER AND AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE

5. VERIFY THE ACTUAL METER LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF

ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL

SLEEVES. SLEEVES SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED.

POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND

6. 120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE

7. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.

9. THIS DESIGN IS DIAGRAMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN

10. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE

DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE IRRIGATION

CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS

11. DO NOT WILLINGLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN

THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL

13. THE IRRIGATION CONTRACTOR SHALL INSTALL CHECK VALVES ON ALL HEADS IN AREAS WHERE FINISH GRADE

14. THE CONTRACTOR SHALL PROVIDE 1800 PCS (PRESSURE COMPENSATING SCREENS) AS NECESSARY TO

EXCEEDS 4:1, WHERE POST VALVE SHUT-OFF DRAINING, OF THE IRRIGATION HEAD OCCURS OR AS DIRECTED

REDUCE OR ELIMINATE OVERSPRAY ONTO STREETS, WALKS OR OTHER AREAS AS DIRECTED BY THE OWNER'S

EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR

12. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER

WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS,

THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS

DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN

SPRAY WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS, ETC.

SHALL LOCATE ALL VALVES IN SHRUB AREAS WHERE POSSIBLE.

8. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM

CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. THE CONTRACTOR

VB-7RNDB (BOX) AND VB-7RNDBLK (LID) VB-10RNDB (BOX) AND VB-10RNDBLK (LID)

VB-STDB (BOX) AND VB-STDBLK (LID)

VB-JMBB (BOX) AND VB-JMBBLK (LID)

9 BRICK SUPPORT PVC MAINLINE FITTINGS

PIPE 15 TIMES - REMOVE PIPE. 3. COMPACT SOIL AROUND VALVE BOX TO

6. INSTALL IN SHRUB AREAS ONLY AND A MINIMUM OF 12" FROM PLANTER EDGE

REMOTE CONTROL VALVE

N.T.S.

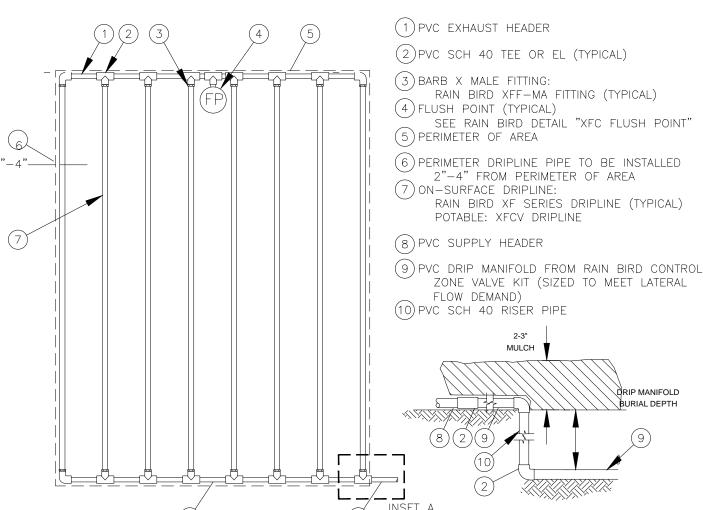
FINISH GRADE/TOP OF MULCH QUICK-COUPLING VALVE: RAIN BIRD MODEL 44LRC VALVE BOX WITH COVER RAIN BIRD VB-6RND

PVC SCH 40 ELL

(4) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL PVC SCH 80 NIPPLE (LENGTH AS REQUIRED) BRICK (1 OF 2)

NOTE: NOMINAL QUICK COUPLING VALVE INLET SIZE.

QUICK COUPLING VALVE



1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING. 2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE

ACCOMPANYING TABLE. 3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE DVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

POP-UP SPRINKLER/TREE BUBBLER

1. ALL WIRE TO BE INSTALLED PER LOCAL 2. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. WRAP AROUND 1/2"

SAME DENSITY AS UNDISTURBED ADJACENT 4. INSTALL ONLY 1 VALVE PER VALVE BOX. 5. TEFLON TAPE ALL THREADS.

PVC SCH 40 STREET ELL PVC SCH 40 TEE OR ELL PVC MAINLINE PIPE 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

WATERPROOF WIRE CONNECTORS AT SPLICES (SEE

ANGLE TO SPECIFIED DEPTH W/ 45

1"-2" AIR SPACE BETWEEN BOTTOM

OF VALVE AND TOP OF PEA GRAVEL

(1) AT EACH CORNER

(1) CONTROLLER WIRES

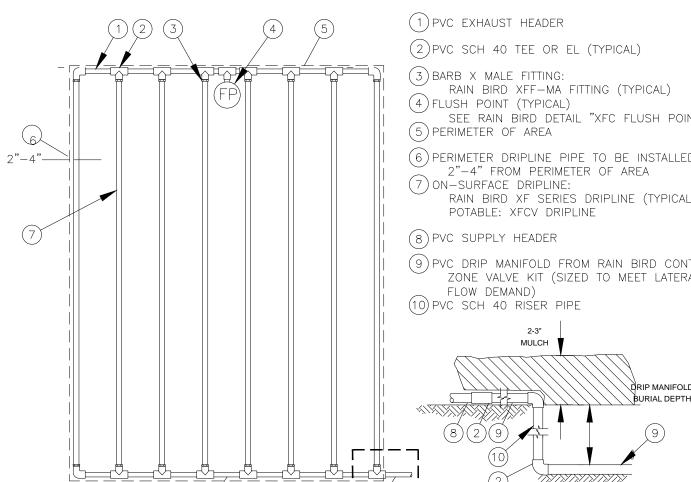
LASCO SCH.80 UNION

PVC MALE ADAPTER

HEIGHT ABOVE FINISH GRADE VARIES (SEE IRRIGATION SPECS)

IRRIGATION SPECS)

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO



17. LATERAL LINE AND MAINLINE PIPING WITHIN BUILDING SHALL BE TYPE B COPPER AND IS SHOWN FOR CLARITY ONLY, ACTUAL DESIGN AND ROUTING SHALL BE COMPLETED BY PLUMBING ENGINEER AND INSTALLED BY

IRRIGATION MATERIAL LEGEND SYMBOL MANUFACTURER MODEL NO. / DESCRIPTION PROS-06-PRS30-CV POP-UP BUBBLER HEAD W/ MSBN-50Q BUBBLE NOZZLE (0.50 GPM EA. AT 30 PSI), EACH **HUNTER** SYMBOL REPRESENTS TWO BUBBLERS PER TREE, PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL RWS-M-B-C-1401: MINI ROOT WATERING SYSTEM WITH 18" (45,7 CM) TUBE, 0.25 GPM (0,95 L/M) BUBBLER & CHECK **RAINBIRD** VALVE ON RISER, 4" (10,2 CM) GRATE, 1/2" (15/21) M NPT INLET SPIRAL BARB ELBOW

HUNTER PLD-06-12 DRIP TUBING WITH 0.60 GPH EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. EMITTERS SHALL BE PRESSURE COMPENSATING AND EQUIPPED WITH AN INTERNAL CHECK VALVE. USE PLD-06-12 TUBING IN SHRUB AND GROUND COVER AREAS 4" BELOW FINISHED SOIL GRADE AND AT A MAXIMUM TUBING SPACING OF 16" ON CENTER. INSTALL THE ROW ADJACENT TO PAVING OR CURB EDGE A MAXIMUM OF 4" OFF OF THE EDGE. INSTALL 6" GALVANIZED STEEL JUTE WIRE STAPLES A MAXIMUM OF FIVE FEET ON CENTER ALONG THE LENGTH OF THE TUBING.

SD-T SOLO-DRIP W/ 10-32 THREADS, 360°

HUNTER

HUNTER

HUNTER

HUNTER

HUNTER

P.O.C.

WILKINS

HUNTER

LASCO

HUNTER

HUNTER/

RAIN BIRD

RAIN BIRD

AS APPROVED

AS APPROVED

AS APPROVED

PAIGE ELECTRIC

GPH IRRIGATION

RAIN BIRD

LASCO

N/A

--1.5 --1.5 -

NO SYMBOL

NO SYMBOL

NO SYMBOL

NO SYMBOL

TORO

NO SYMBOL

EC - IRRIGATION CONTROLLER,

REFER TO NOTE '4',

PROVIDE 120 V AC ELECTRICAL POWER SOURCE FOR CONTROLLER

CONTROLLER RAIN SENSOR MOUNTED IN FULL SUN EXPOSURE.

INSTALL PER MANUFACTURER RECOMMENDATIONS

PLD 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING

PLD-050 17mm BARB X 1/2" MIPT MALE ADAPTERS WITH PVC TEE OR ELL FITTINGS FOR CONNECTION BETWEEN PVC LINES AND DRIP TUBING

PLD-AVR AIR/VACUUM RELIEF VALVE INSTALLED WITH PLD075TBTEE BARB X 3/4" FIPT TEE FITTING AND A 3/4" X 1/2" PVC REDUCER BUSHING, INSTALL AIR RELIEF ASSEMBLY AT THE HIGH POINT OF EACH PLANTER. INSTALL A MINIMUM OF ONE (1) ARV FOR EVERY 500 FEET OF DRIP TUBING IN ANY GIVEN DRIP ZONE. USING AN AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIPLINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S SHALL BE REQUIRED PER RCV WITHIN UNDULATING AREAS, VERIFY QUANTITY PRIOR TO STARTING WORK.

GDFN DRIP FLUSH / INDICATOR NOZZLE, ORANGE IN COLOR, INSTALLED ONTO A HUNTER PROS-12 12" POP-UP SPRINKLER BODY. THE FLUSH NOZZLE SHALL BE ORIENTED TO SEND FLUSH WATER INTO THE PLANTER AREA AND CLOSED FOR NORMAL OPERATION OF THE DRIP SYSTEM.

1-1/2" POTABLE SUB-METER WITH 1-1/2" SERVICE LINE, VERIFY SIZE, LOCATION, AND STATIC WATER PRESSURE IN FIELD 975XLS, 1-1/2" R/P BACKFLOW PREVENTION DEVICE WITH 1-1/2" WYE STRAINER

ICV-101G 1" NORMALLY CLOSED, PLASTIC MASTER CONTROL VALVE

SLO-CLOSE SCH. 80 PVC TRUE-UNION BALL VALVE WITH SOLVENT WELD CONNECTIONS, LINE SIZE

HQ-33DLRC QUICK COUPLER VALVE, INSTALL WITHIN 10" ROUND VALVE BOX

ICV-101G-FS (1") SERIES DRIP REMOTE CONTROL VALVE ASSEMBLY, INSTALL TORO T-ALFD75150-L, 3/4" DISC FILTER AND SENNINGER PRESSURE REGULATOR PMR-MF-40. INSTALL BOTH ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE CONTROLLER SHALL BE A ESP-36LXMEF SERIES, 12-STATION BASE CONTROLLER WITH FLOW SMART MODULE AND 2x ESPLXMSM12 12-STATION MODULES FOR TOTAL CAPACITY OF 36-STATIONS. CONTROLLER SHALL BE INSTALLED AT LOCATION SHOWN ON PLANS, APPROXIMATELY 4'-6" ABOVE FINISH GRADE. COORDINATE FINAL LOCATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO

STARTING WORK. RSD-BEX SERIES RAIN SENSOR WITH METAL BRACKET, MOUNT TO TOP OF WALL IN FULL SUN EXPOSURE AND WIRE TO CONTROLLER

120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD PVC PIPE 3/4" - 1-1/4" SCH. 40 AS LATERAL LINES 12" BELOW GRADE

PVC PIPE 1-1/2" SCH. 40 SOLVENT WELD AS MAINLINES 18" BELOW GRADE, ALL FITTINGS SHALL RECEIVE THRUST BLOCKING

PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GRAY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO

MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE WITH MOLDED THREADS. P7079D POLYETHYLENE INSULATED, SOLID COPPER CONDUCTOR IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)

GDBRY6 DIRECT BURIAL WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS VB SERIES VALVE BOXES. BLACK BOXES AND BLACK LIDS WITH PENTA HEAD BOLT, WASHER AND CLIP 15. ALL CONTROL WIRES SHALL BE INSTALLED IN PVC CONDUIT. 16. ALL REMOTE CONTROL VALVES, GATE VALVES, QUICK COUPLERS, CONTROL WIRE AND COMPUTER CABLE PULL POINTS SHALL BE INSTALLED IN APPROVED VALVES BOXES WITH COVERS.

AUTHORIZED REPRESENTATIVE.

UNDER ROADWAYS AND PAVING, ETC.

RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

DESCRIPTION

7" ROUND BOXES

10" ROUND BOXES

STANDARD RECTANGULAR BOXES

STATION NUMBER

VALVE SIZE IN INCHES

BACKFLOW PREVENTER AS PER LOCAL CODES.

OWNER'S AUTHORIZED REPRESENTATIVE.

IRRIGATION CONSULTANT.

GPM **FLOW RATE IN G.P.M.**

IRRIGATION NOTES

JUMBO RECTANGULAR BOXES

VALVE CALLOUT LEGEND

PLUMBING CONTRACTOR. ALL PIPING THROUGH THE BUILDING TO EXTERIOR AND THROUGH BUILDING TO UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

REGISTRATION NO. RLA 6667347

Date: 01/17/2020

SHEET NUMBER: