VARIANCE REQUEST FOR:

DRB FINAL SUBMITTAL

27 STAR ISLAND

OCTOBER 11, 2021

27 E. STAR ISLAND DRIVE



27 E. STAR ISLAND DRIVE

CLIENT: STARBOARD FLORIDA IV LLC 27 STAR ISLAND DR. MIAMI BEACH, FL 33139

ARCHITECT: CHOEFF LEVY FISCHMAN 8425 BISCAYNE BLVD., STE. 201 MIAMI, FL 33138

DESCRIPTION OF VARIANCE REQUEST

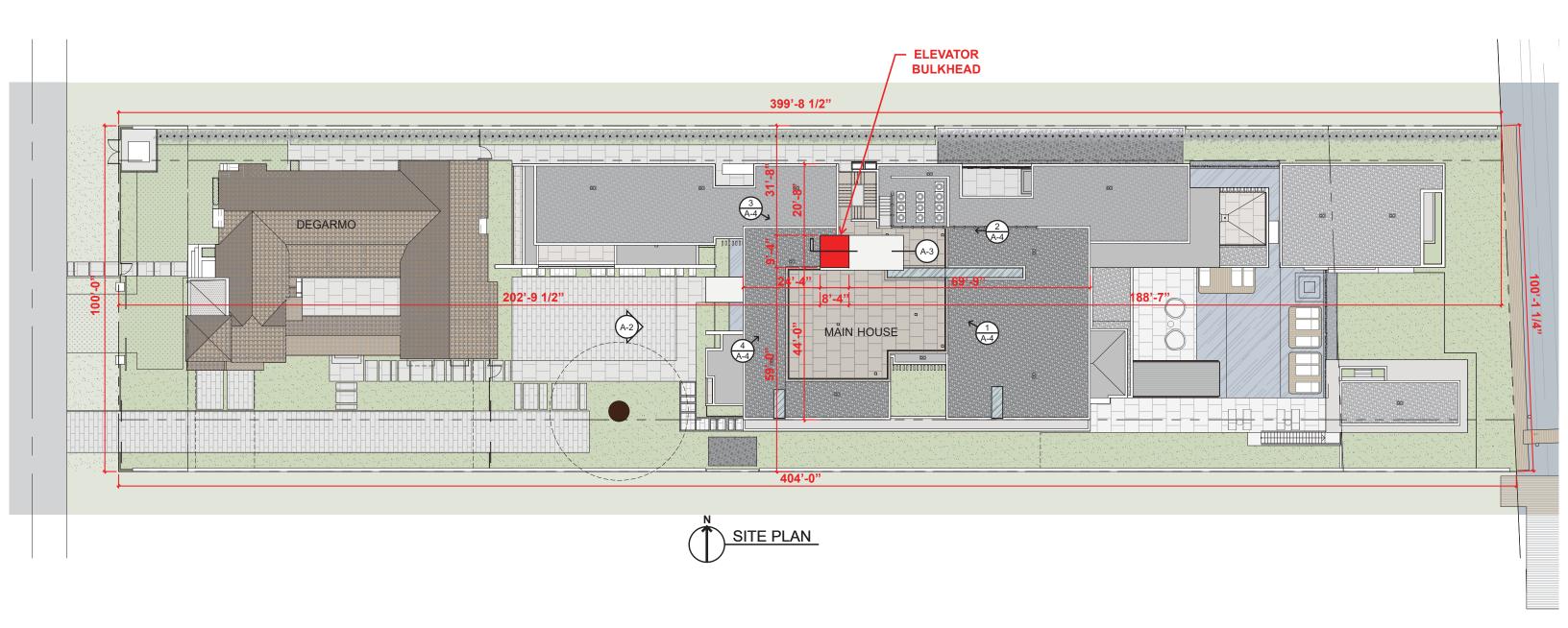
Request for a variance from DRB, to allow an elevator bulkhead to exceed the maximum 10' height above roof level, per Sec. 142-105 (b)(7)f, by 3'-0".

NOTE REGARDING AS-BUILT DRAWINGS:

Pages and excerpts from the approved As-Built Permit drawings, including landscape drawings, are for reference only and not part of the scope of work proposed in this application

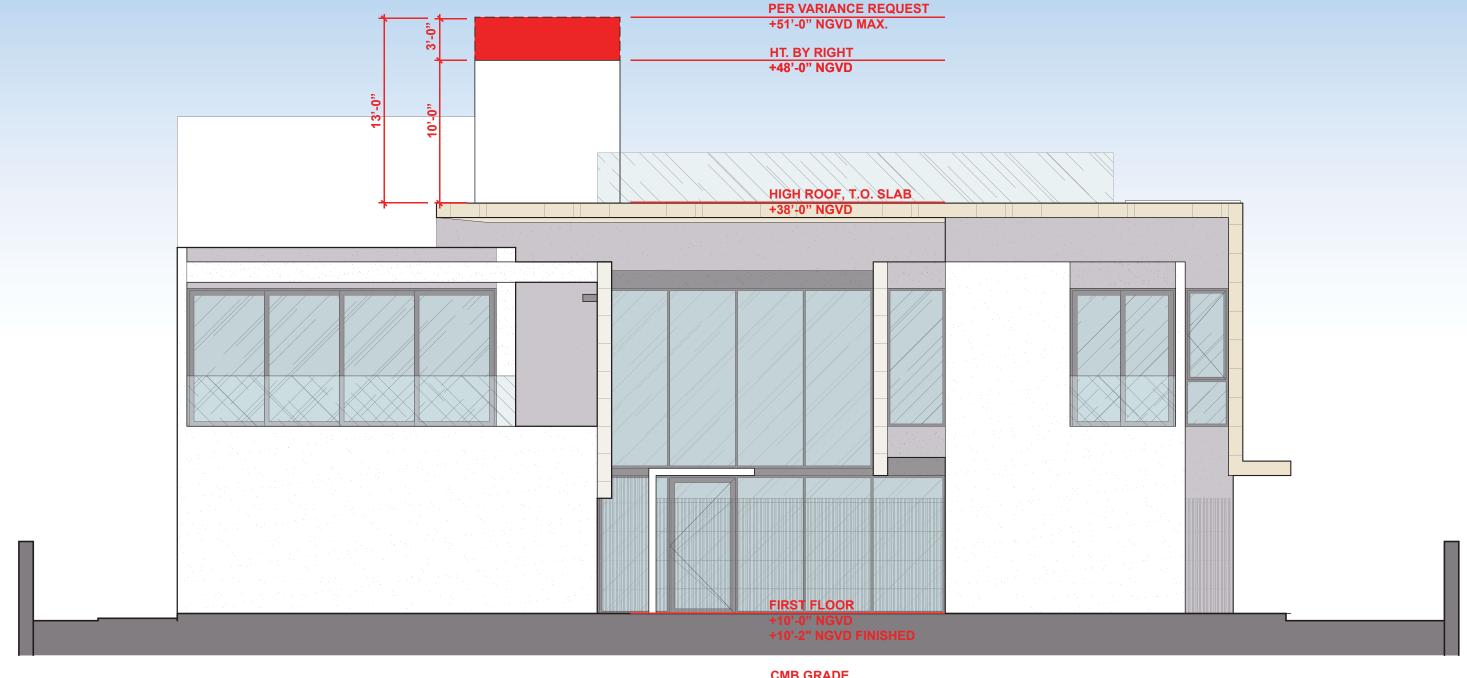








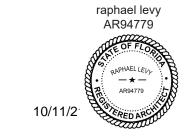


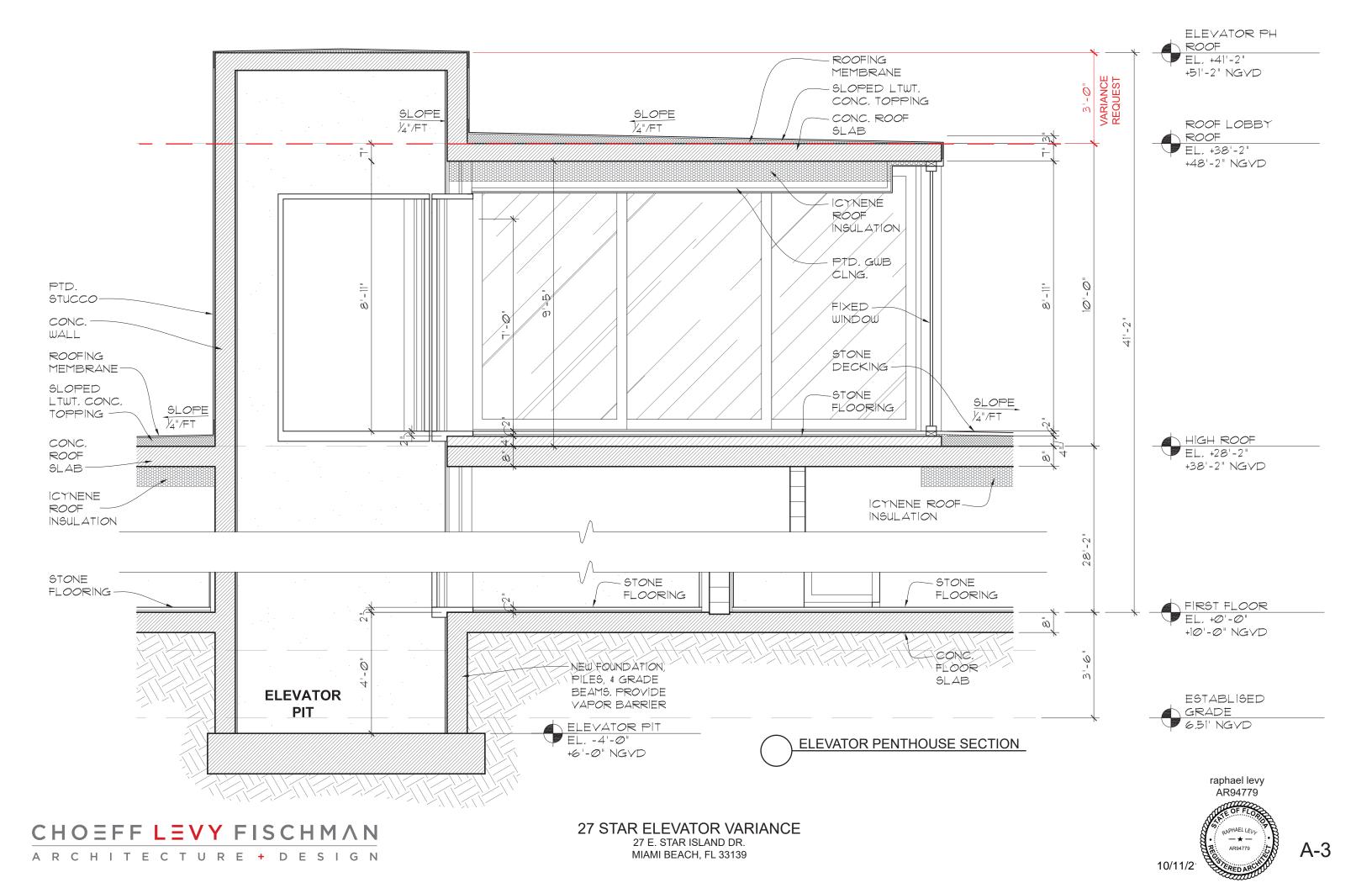


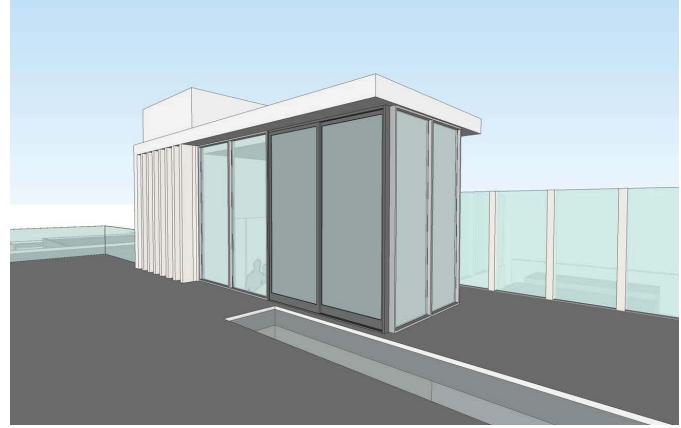
CMB GRADE +5'-4" NGVD







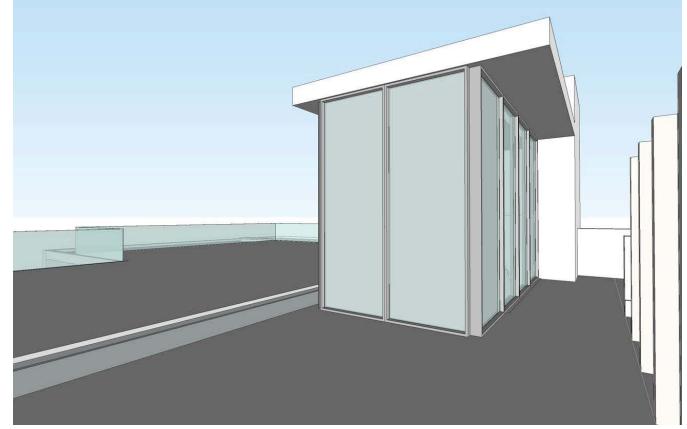




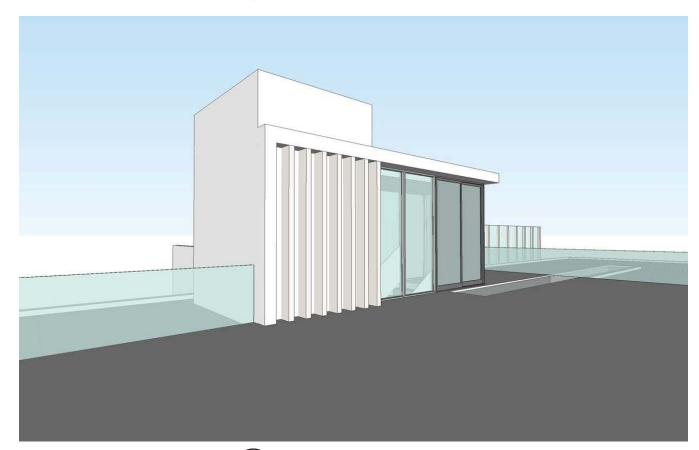
1) VIEW FROM SOUTHEAST



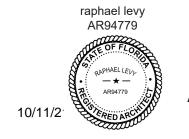
3 VIEW FROM NORTHWEST



2 VIEW FROM NORTHEAST

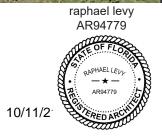


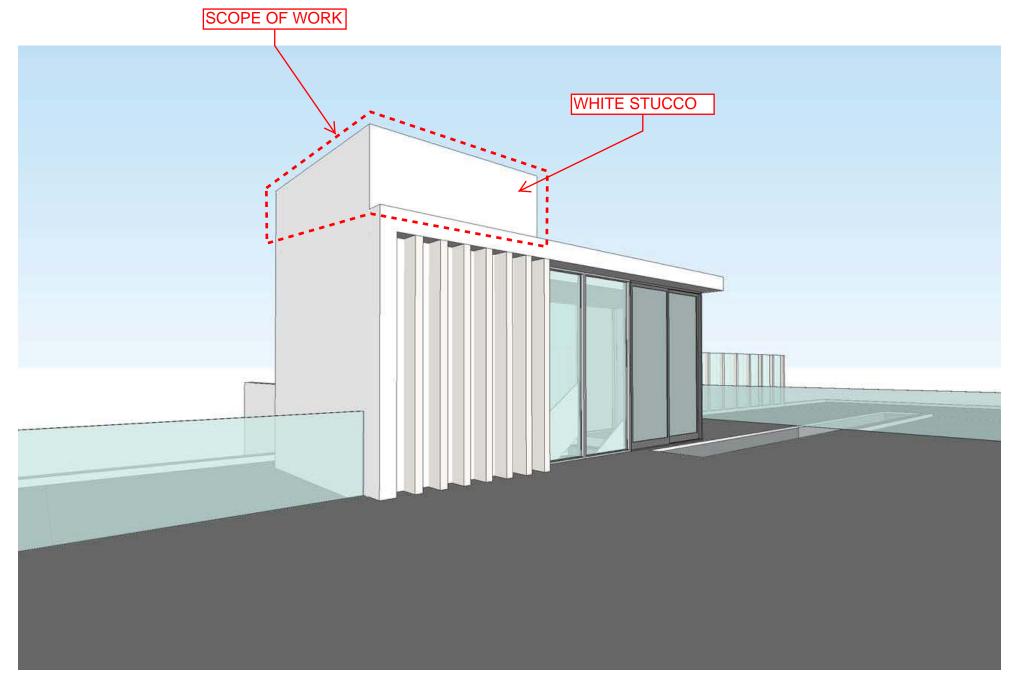
4 VIEW FROM SOUTHWEST





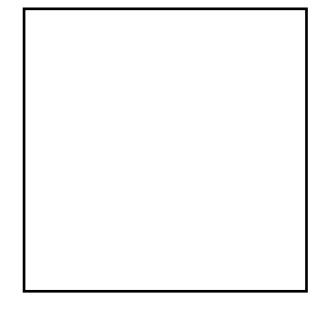






1 VIEW FROM SOUTHWEST

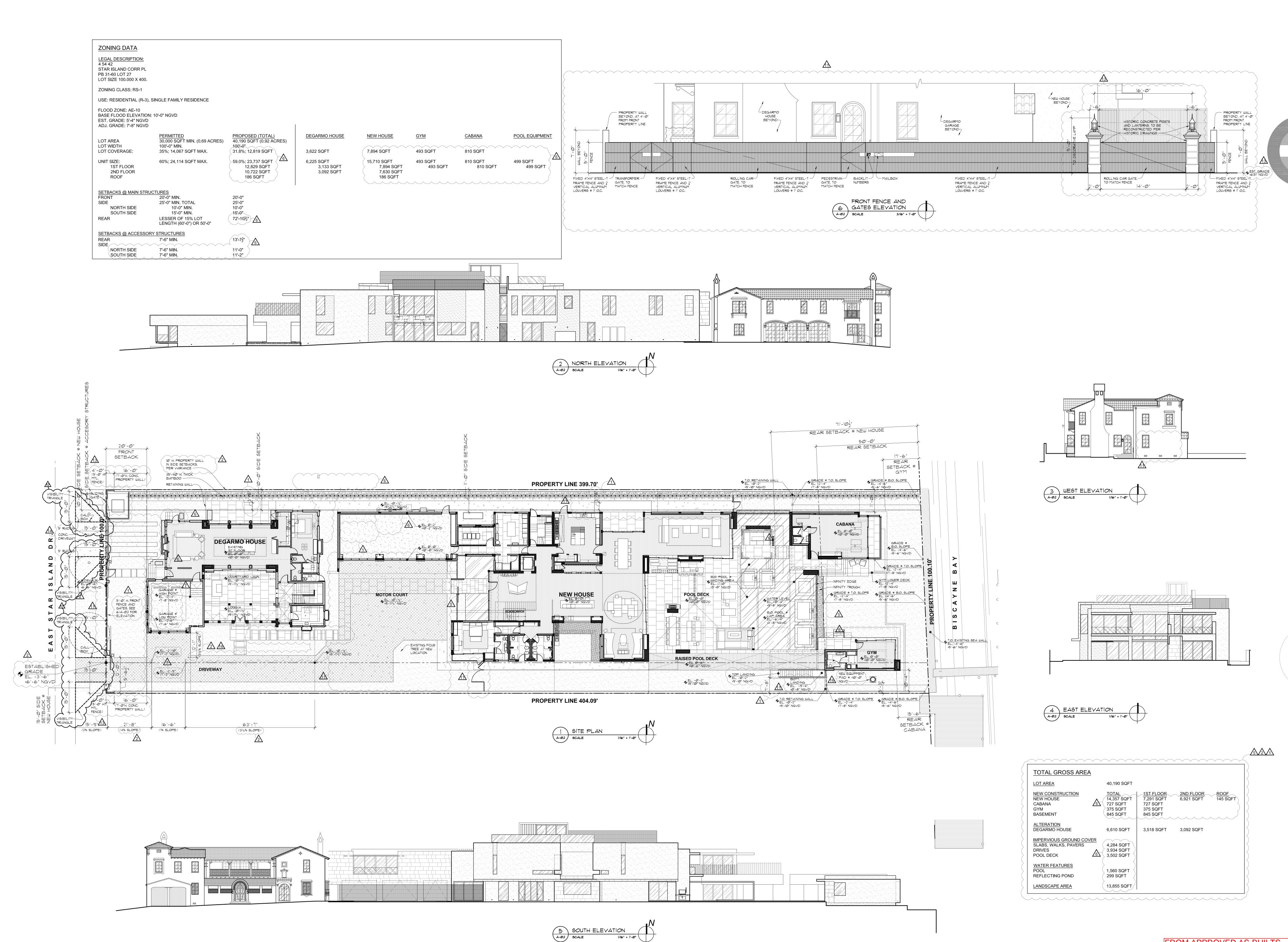
MATERIAL BOARD



WHITE STUCCO (TO MATCH EXISTING)







FROM APPROVED AS-BUILTS FOR REFERENCE ONLY

A-0.2

comm no. 1234

2-27-2015

3/25/15 B.D. COMMENTS

7/06/15 OWNER REVS.

11/30/15 OWNER REVS.

2/12/16 B.D. COMMENTS

11/15/17 OWNER REVISIONS

1/10/18 B.D. COMMENTS

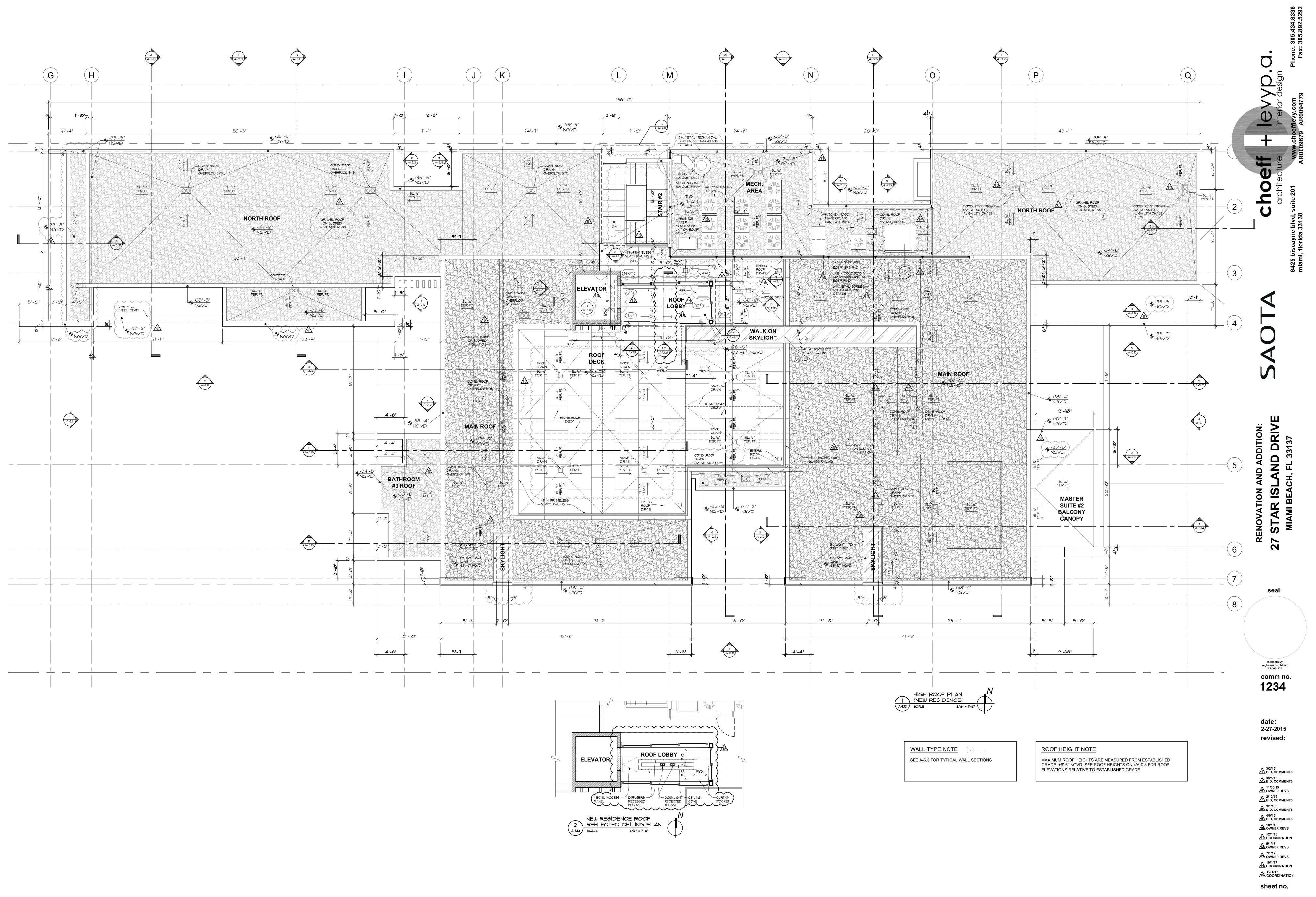
2/6/18 B.D. COMMENTS

3/14/18 B.D. COMMENTS

8/20/18 OWNER REVS.

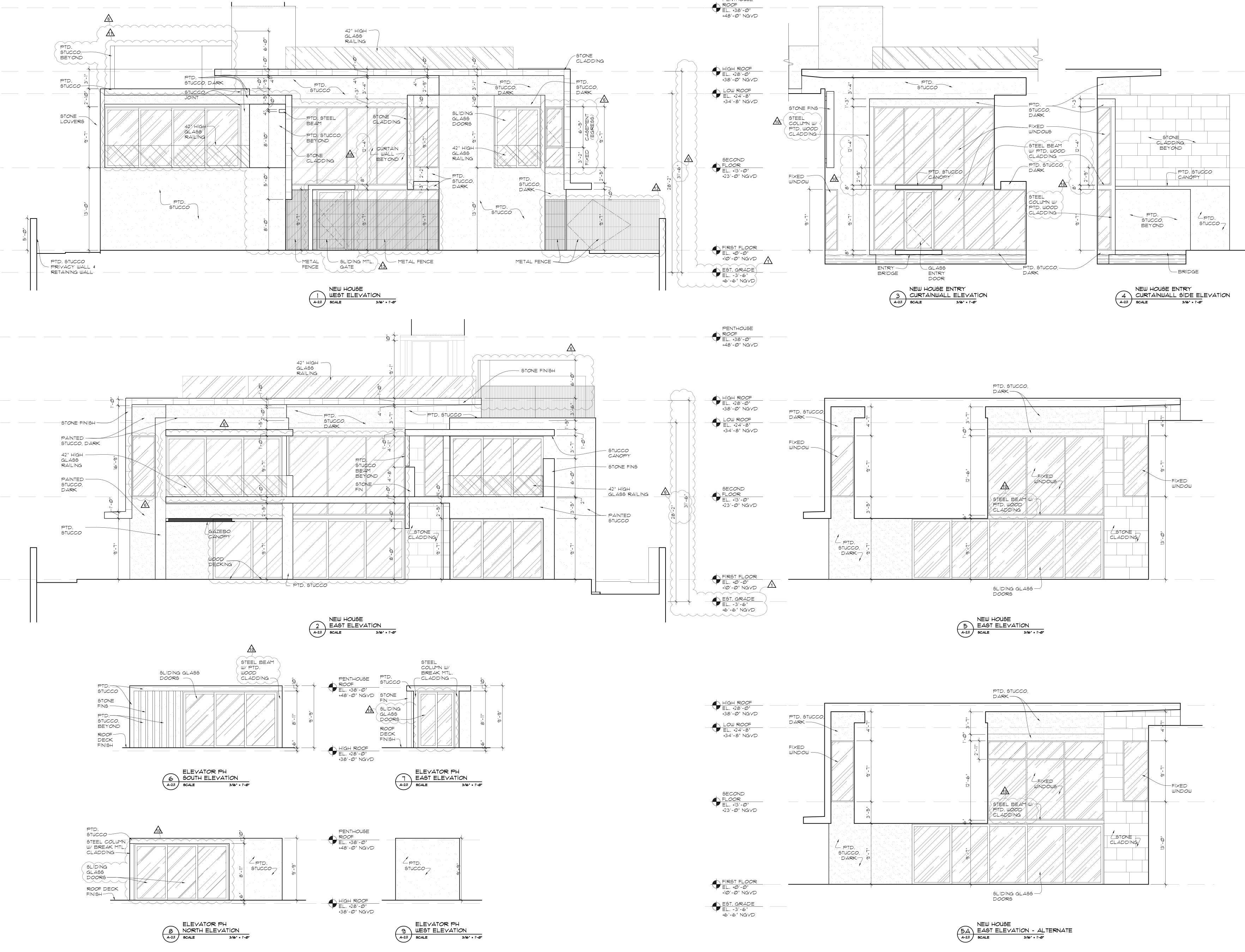
A 3/13/19 FIELD COORD.

sheet no.

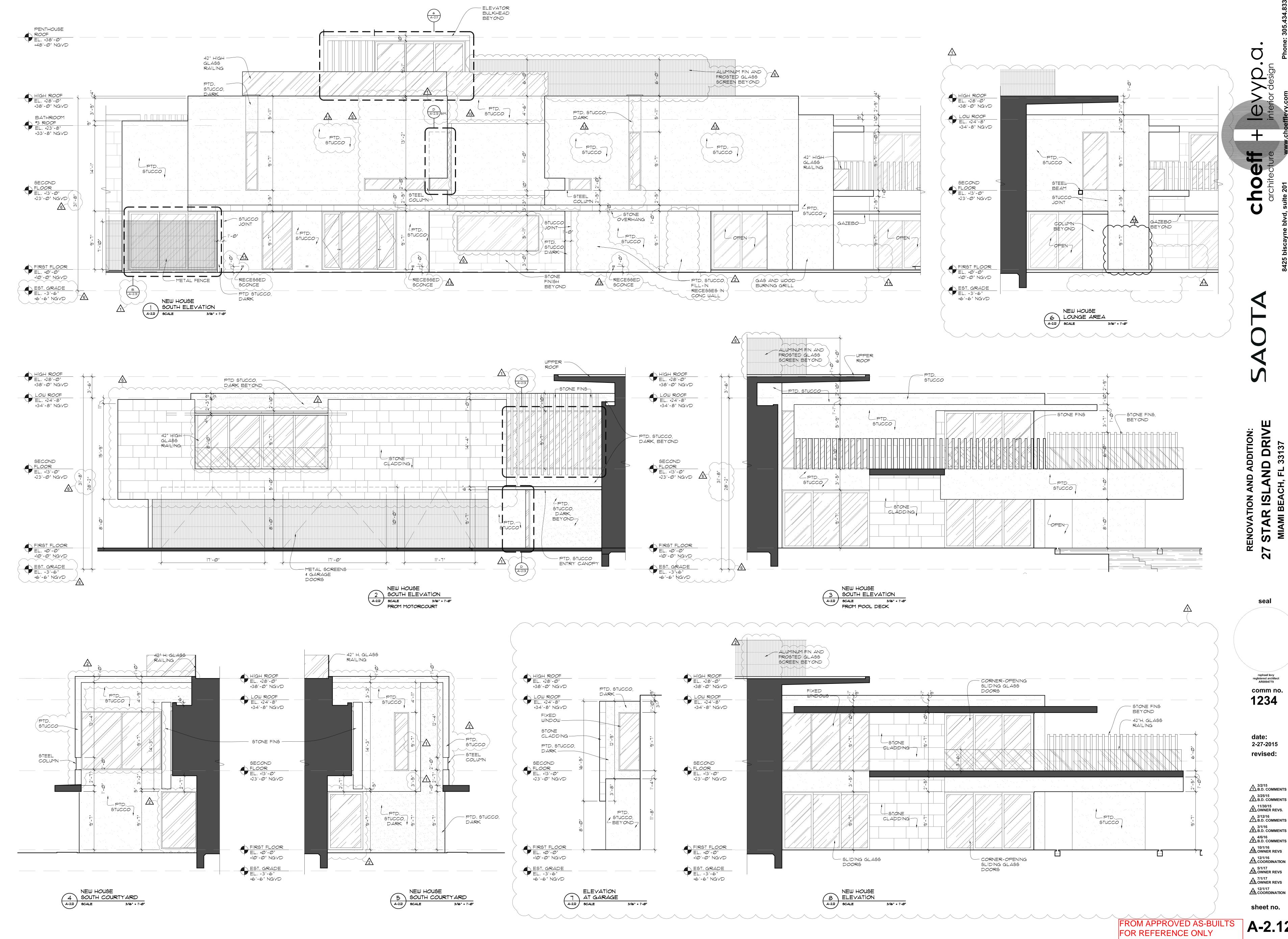


date: 2-27-2015 revised: $\frac{3}{2}$ B.D. COMMENTS 3/25/15 B.D. COMMENTS 11/30/15 OWNER REVS. 2/12/16 B.D. COMMENTS 3/1/16 B.D. COMMENTS 4/6/16 B.D. COMMENTS 10/1/16 OWNER REVS 12/1/16 COORDINATION 5/1/17 OWNER REVS 7/1/17 OWNER REVS





PENTHOUSE



LAND CH, FL 33

27

RENOVATION AND ADDITION:

27 STAR ISLAND DRIVE
MIAMI BEACH, FL 33137

raphael levy registered architect AR0094779 comm no. 1234

date: 2-27-2015 revised:

3/2/15 B.D. COMMENTS 3/25/15 B.D. COMMENTS 11/30/15 OWNER REVS. 2/12/16 B.D. COMMENTS 3/1/16 B.D. COMMENTS 4/6/16 B.D. COMMENTS 10/1/16 OWNER REVS 7/1/17 OWNER REVS 12/1/17 COORDINATION

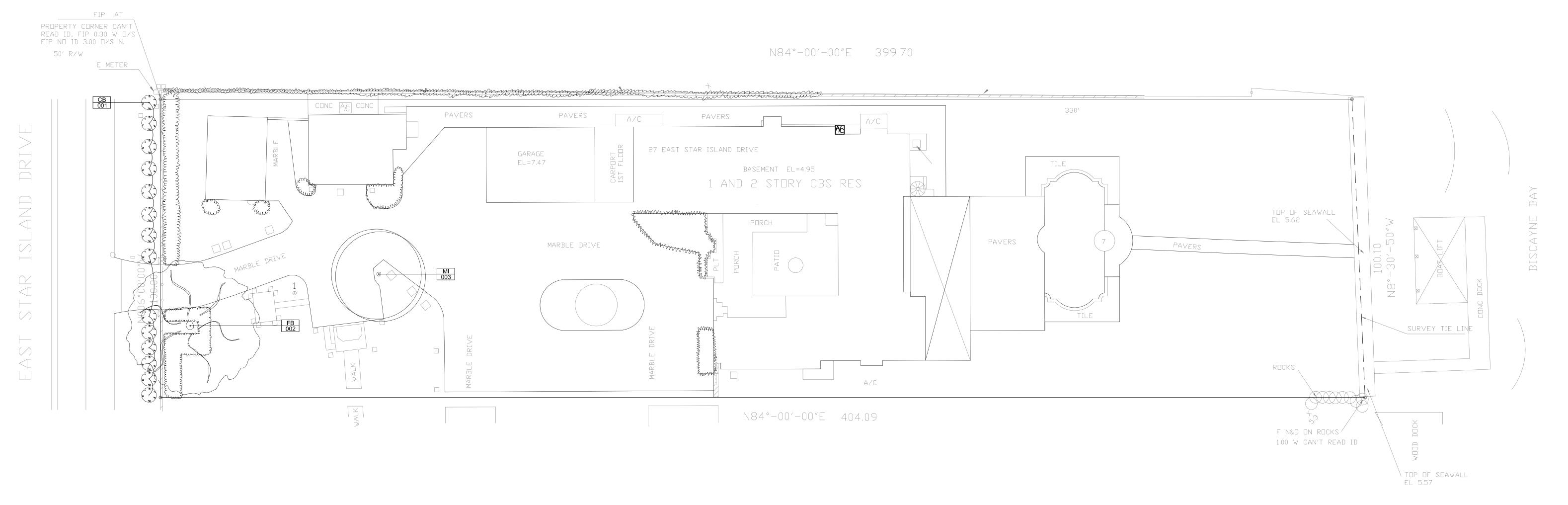
sheet no.

A-2.13

FOR THE FIRM:_____ GERARDO JAVIER DELGADO R.L.A. 0001574 All landscaping designs, plans, concepts, drawings and renderings (hereinafter "Enea's Designs") are original and created by Enea Garden Design, Inc. All of Enea's Designs are the exclusive property of Enea Garden Design, Inc. and protected by Copyright laws. The use, reproduction, or copying of any of Enea's Designs without express written authorization from Enea Garden Design Inc. is strictly prohibited.

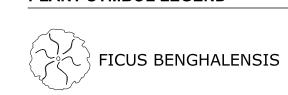
1234

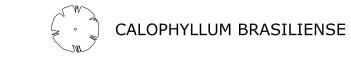




SCALE: 1/16" = 1'-0

PLANT SYMBOL LEGEND

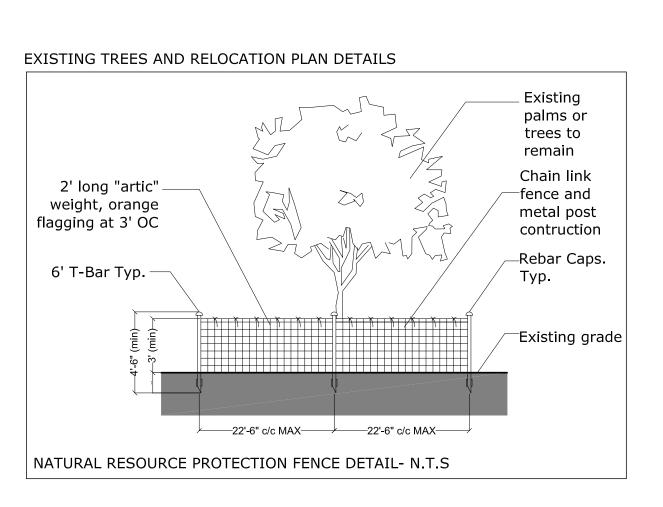


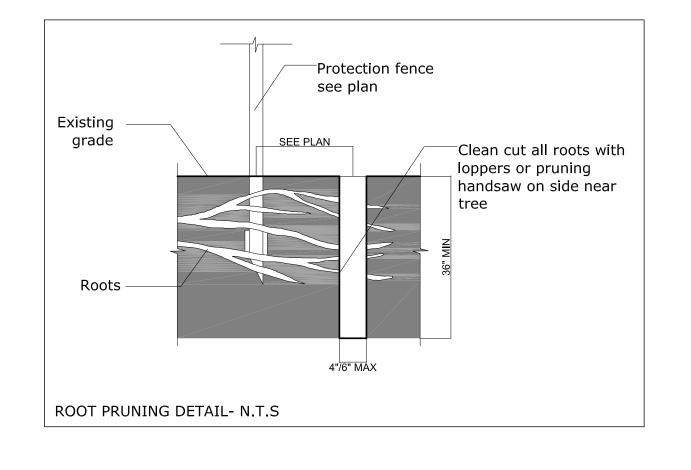


DISPOSITION TAG LEGEND

EXISTING TREE TO BE REMOVED

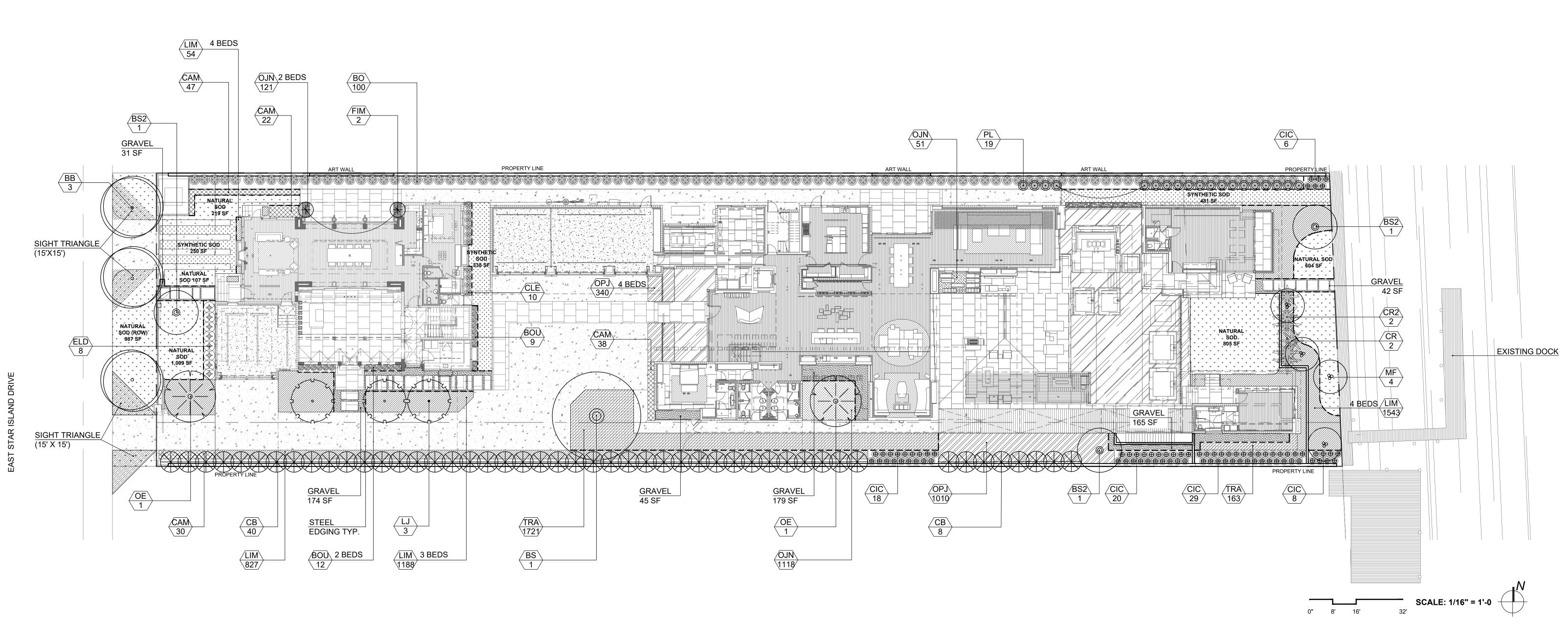
27 S	TAR ISLA	ND - TREE DISPOSIT	ION SCHEDULE				
SYM	NUMBER	SCIENTIFIC NAME	COMMON NAME	HEIGHT	SPREAD	DBH	DISPOSITION
СВ	1	Calophyllum brasiliense	Brazilian Beautyleaf	14'	4'	3"	REMOVE
FB	2	Ficus benghalensis	Banyan Fig	60'	50'	72"	REMOVE
. –		Magnifera indica	Mango Tree	30'	25'	21"	REMOVE





Tree trunk

PLANTING PLAN



SYM	QTY	SCIENTIFIC NAME	COMMON NAME	MINIMUM SPECIFICATIONS	NATIV	E NOTES
XIS	TING TR	REES TO BE RELOCATED				
->/:0						
EXIS	TING SE	IRUBS TO BE RELOCATED	.	_		
EVIO:	TINIO AC	OCNITO TO DE DEL COATE				
EXIS	IING AC	CENTS TO BE RELOCATED)			
DDOI	OCED	TDEE				
	POSED		I District Office I Observed a served	TEO, OALLIT, OOLOD, OILDDLI		LODEOMEN
BB BS	3	Bucida buceras Bursera simaruba	Black Olive 'Shady Lady' Gumbo Limbo	FG; 24' HT; 20' SP; 8" DBH FG; 30' HT; 25' SP	N	SPECIMEN COLLECTED CHARACTER SPECIMEN
3S 3S2	3	Bursera simaruba Bursera simaruba	Gumbo Limbo Gumbo Limbo	FG; 30' HT; 25' SP FG; 20' HT; 18' SP	Y	COLLECTED CHARACTER SPECIMEN COLLECTED CHARACTER SPECIMEN
CB	48	Calophyllum brasiliense	Brazilian Beautyleaf	45G; 14' HT; 7' SP	N	OOLLEGIED GIAIAGIER SPECIIVIEN
OE	2	Olea europaea 'Manzanillo'	European Olive	FG; 8'-9' CLEAR TRUNK; MULTI-TRUNK	N	COLLECTED CHARACTER SPECIMEN
_J	3	Ligustrum japonicum	Japanese Privet	FG; 15' HT, 12' SP, 6" DBH	N	SPECIMEN SPECIMEN
MF	4	Myrcianthes frangrans	Simpson's Stopper	FG;14' HT, 10' SP; MULTI-TRUNK	Y	SPECIMEN
PL	19	Polyalthia longifolia	Mast Tree	45G; 12'-13' HT	N	FULL TO BASE
	_			- L	-	
NOTE	: PROVIDI	E ROOT BARRIERS AROUND GUMI	BO LIMBOS AND SHADY LADIE	S		
*NOTE	: PROVIDI	E ROOT BARRIERS AROUND GUMI	BO LIMBOS AND SHADY LADIE	S		
			BO LIMBOS AND SHADY LADIE	S		
PROF	POSED	SHRUBS			N	TELLI TO BASE
PROF CAM	POSED 3	SHRUBS Carissa macrocarpa	Natal Plum 'Emerald Blanket'	3G; 20" HT; 18" O.C	N	FULL TO BASE
PROF CAM CIC	137 81	SHRUBS Carissa macrocarpa Chrysobalanus icaco	Natal Plum 'Emerald Blanket' Cocoplum	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN	Y	FULL TO BASE
PROF CAM CIC ELD	137 81 8	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK	Y N	FULL TO BASE FULL TO BASE
PROF CAM CIC ELD	137 81	SHRUBS Carissa macrocarpa Chrysobalanus icaco	Natal Plum 'Emerald Blanket' Cocoplum	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN	Y	FULL TO BASE
PROF CAM CIC ELD FIM	137 81 8 2	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island'	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK	Y N	FULL TO BASE FULL TO BASE
PROF	137 81 8 2	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE
PROF CAM CIC ELD FIM	137 81 8 2 POSED (SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION
PROF CAM CIC ELD FIM	POSED 3 81 8 2 POSED 9 3,612 1,350	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE
PROFICAM CIC ELD FIM PROFILIM OPJ OJN	137 81 8 2 POSED (SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION
PROFICAM CIC ELD FIM PROFILIM OPJ OJN	POSED 8 137 81 8 2 POSED 9 3,612 1,350 1,290	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana'	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C.	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION
PROFICAM CIC ELD FIM PROFILIM OPJ OJN TRA	POSED 9 137 81 8 2 POSED 9 3,612 1,350 1,290 1,884	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana'	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C.	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION
PROFICAM CIC ELD FIM PROFICAM OPJ OJN TRA	POSED 9 137 81 8 2 POSED 9 3,612 1,350 1,290 1,884	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C.	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION FULL; DENSE PLANTING AT TIME OF COMPLETION
PROF CAM CIC ELD FIM PROF LIM OPJ OJN TRA	POSED 3 137 81 8 2 POSED 6 3,612 1,350 1,290 1,884	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" O.C. 1G; 6" O.C.	Y N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION
PROFICAM CIC ELD FIM PROFICAM OPJ OJN TRA PROFICAM OR	POSED 3 137 81 8 2 POSED 9 3,612 1,350 1,290 1,884 POSED 6	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" O.C. 1G; 6" O.C. 1G; 6" HT; 10" O.C.	N N N N N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION
PROFICAM CIC ELD FIM PROFICAM OPJ OJN TRA PROFICAM CR CR2	POSED 3 137 81 8 2 POSED 6 3,612 1,350 1,290 1,884 POSED 6 100 2 2	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii Cycas revoluta Cycas revoluta	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo King Sago Palm	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C 1G; 6" O.C. 1G; 6" O.C. 1G; 6" HT; 10" O.C.	N N N N N N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL TO BASE SPECIMEN
PROFICAM CIC ELD FIM PROFICAM OPJ OJN TRA PROFICAM CR CR2	POSED 3 137 81 8 2 POSED 6 3,612 1,350 1,290 1,884 POSED 6 100 2	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii Cycas revoluta Cycas revoluta	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo King Sago Palm	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C 1G; 6" O.C. 1G; 6" O.C. 1G; 6" HT; 10" O.C.	N N N N N N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL TO BASE SPECIMEN
PROFICAM CIC ELD FIM PROFICAM OPJ OJN TRA PROFICAM CR CR2	POSED 3 137 81 8 2 POSED 6 3,612 1,350 1,290 1,884 POSED 6 100 2 2	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii Cycas revoluta Cycas revoluta	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo King Sago Palm	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C 1G; 6" O.C. 1G; 6" O.C. 1G; 6" HT; 10" O.C.	N N N N N N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL TO BASE SPECIMEN
PROFICAM CIC ELD FIM PROFICAM OPJ OJN TRA PROFICAM CR CR2	POSED 3 137 81 8 2 POSED 9 3,612 1,350 1,290 1,884 POSED 9 100 2 2 POSED 9	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii Cycas revoluta Cycas revoluta VINES	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo King Sago Palm King Sago Palm	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" O.C. 1G; 6" HT; 10" O.C.	Y N N N N N N N N N N N N N N N N N N N	FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL TO BASE SPECIMEN SPECIMEN
PROFICAM CIC ELD FIM PROFICION OPJ OJN TRA PROFICA CR2 PROFICA CR2	POSED 3 137 81 8 2 POSED 9 3,612 1,350 1,290 1,884 POSED 9 100 2 2 POSED 9 100 2 2	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii Cycas revoluta Cycas revoluta VINES Clerodendrum thomsoniae Bougainvillea 'Ms. Alice'	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo King Sago Palm King Sago Palm White Bleeding Heart Vine	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" HT; 10" O.C. 25G; 35'-40' HT; MULTI-SHOOT FG; SINGLE TRUNK FG; DOUBLE TRUNK	N N N N N N N N N N N N N N N N N N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL TO BASE SPECIMEN FULL, TRELLIS TRAINED
PROFICAM CIC ELD FIM PROFICION OPJ OJN TRA PROFICA CR2 PROFICA CR2	POSED 3 137 81 8 2 POSED 9 3,612 1,350 1,290 1,884 POSED 9 100 2 2 POSED 9 100 21	SHRUBS Carissa macrocarpa Chrysobalanus icaco Elaeocarpus decipiens Ficus microcarpa 'Green Island' GROUNDCOVERS Liriope muscari Ophiopogon japonicus Ophiopogon japonicus 'nana' Trachelospermum asiaticum ACCENTS Bambusa oldhamii Cycas revoluta Cycas revoluta VINES Clerodendrum thomsoniae Bougainvillea 'Ms. Alice'	Natal Plum 'Emerald Blanket' Cocoplum Japanese Blueberry Ficus Green Island LilyTurf Mondo Grass Dwarf Mondo Grass Asiatic Jasmine Giant Timber Bamboo King Sago Palm King Sago Palm White Bleeding Heart Vine	3G; 20" HT; 18" O.C 7G; 3' HT; 3' SP; 30" O.C; GREEN 25G; 6' HT; MULTI-TRUNK 25G; 5-6' HT; MULTI-TRUNK 3G; 8" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" HT; 10" O.C. 1G; 6" HT; 10" O.C. 25G; 35'-40' HT; MULTI-SHOOT FG; SINGLE TRUNK FG; DOUBLE TRUNK	N N N N N N N N N N N N N N N N N N N	FULL TO BASE FULL TO BASE CHARACTER, FULL TO BASE FULL; DENSE PLANTING AT TIME OF COMPLETION FULL TO BASE SPECIMEN FULL, TRELLIS TRAINED

le of Miami Beach - Florida - Chapter 126 - Miami Dade County - Landscape Code, Chapter 18A		
Building Type: Single Family		
Home		
Lot Area: 40,190 SF Acres: 0.92		
Landscape requirements within	Required	Provide
property	Kequired	TTOVICE
Tree Requirement	3	80
Not including Street Trees	3	00
Palm substitution allowed = 3:1	0	0
30% allowed substitution of tree requirement = 1	0	U
Street Trees		
(1) per every 30ft of frontage. Total Frontage = 82' Required Street trees = 82/30= 2.7	3	3
(10) Shrubs per Required Tree = 30		
(3 trees x 10 shrubs)	30	228
Not including Street Trees		
30% of Required <u>Trees</u> must be native		0
Required Trees = 3 Total native trees = 1; $1/3 = 33\%$ Not Including Street Trees	1	8
30% of Provided Shrubs must be native	60	0.1
Total shrubs =228 Total required native shrubs =68; 81/200= 36%	68	81
Lawn Coverage	20,095 SF	
Not including ROW	allowed	2,179 SF
50% of Net Lot Area, Net lot area = 40,190 40,190/2= 20,095 allowed	anovica	

	Bucida buceras		Carissa macrocarpa		Bougainvillea
	Bursera simaruba		Ophiopogon japonicus		Bambusa oldhamii
	Calophyllum brasiliense		Ophiopogon japonicus 'nana'	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	Elaeocarpus decipiens
	Ficus microcarpa 'Green Island'		Liriope muscari		Chrysobalanus icaco
	Olea europaea		Trachelospermum asiaticum		⊳Cycas revoluta
	Ligustrum japonicum	,	Zoysia	SYM QTY	PROPOSED PLANT
80	Myrcianthes fragrans		GRASSPAVE	SYM QTY	RELOCATED PLANT
+	Polyalthia longifolia		GRAVEL		METAL EDGING, SEE DETAIL ON L-301

PLANTING SYMBOL LEGEND

GRAVEL	635 SF	Black Zen Gravel 3/8"	Source: Miami Beach Pebbles (305) 438-1775
SYNTHETIC SOD	731 SF	SynLawn: Syntipede343	Source: Easy Grass (305) 234-5800
S.STEEL CABLES		S8 Trellis System Note: 4" clearance between wall and cable, cables 12" O.C	Source:Jakob -USA (561) 330-6502

3. IRRIGATION SYSTEM SHALL PROVIDE 100% COVERAGE WITH MIN. 50% OVERLAP

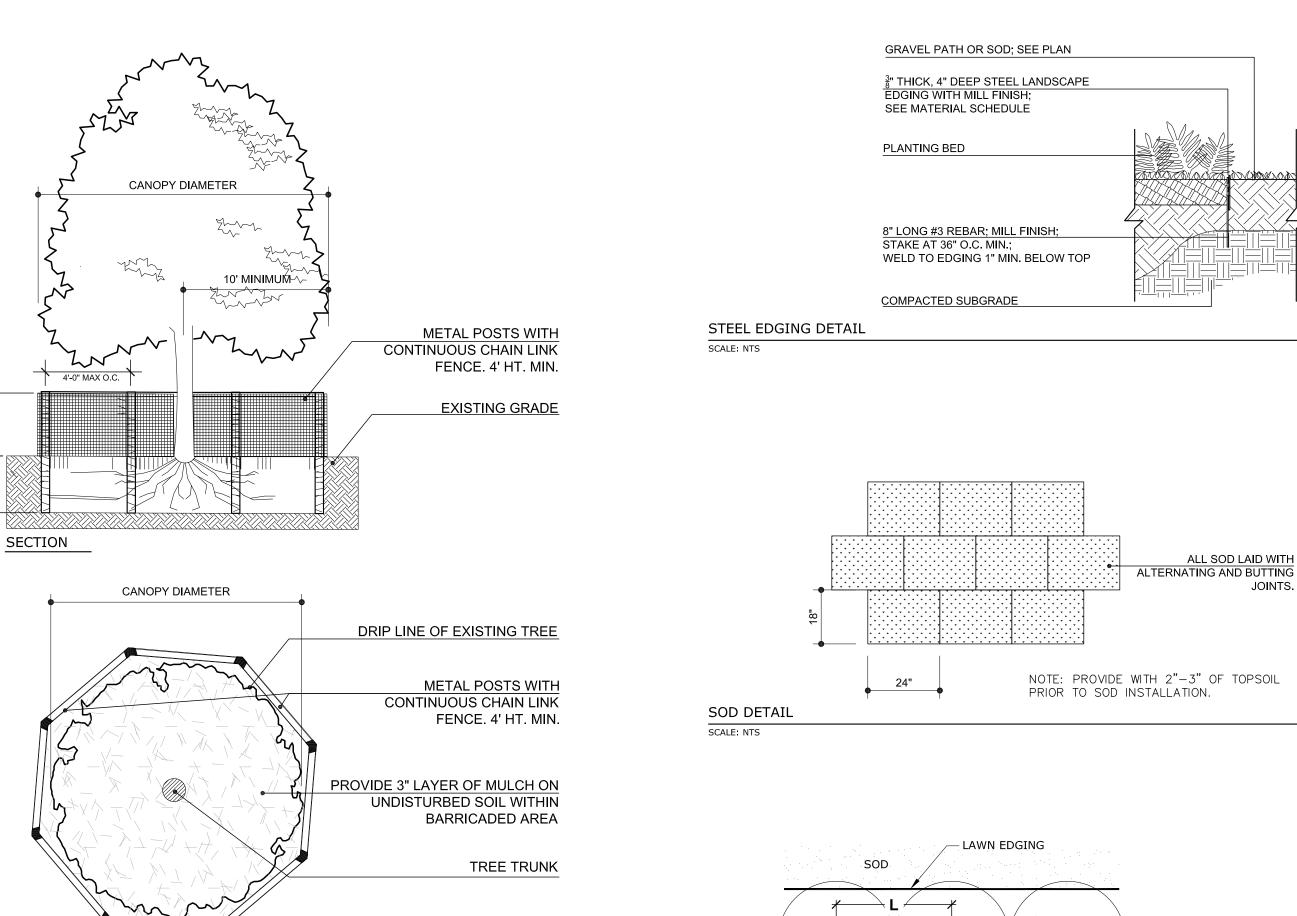
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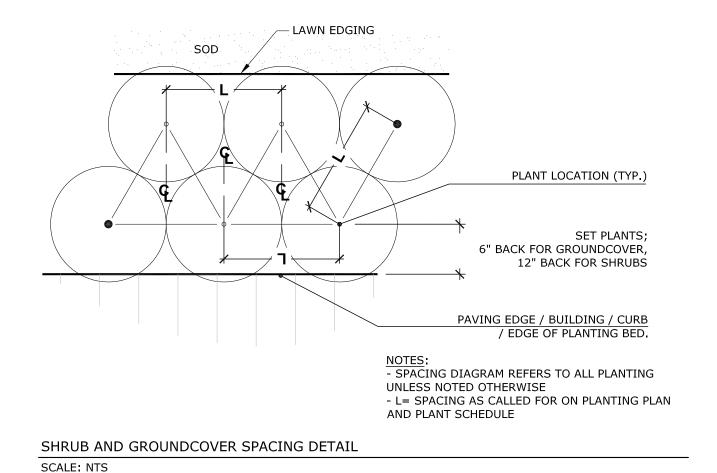
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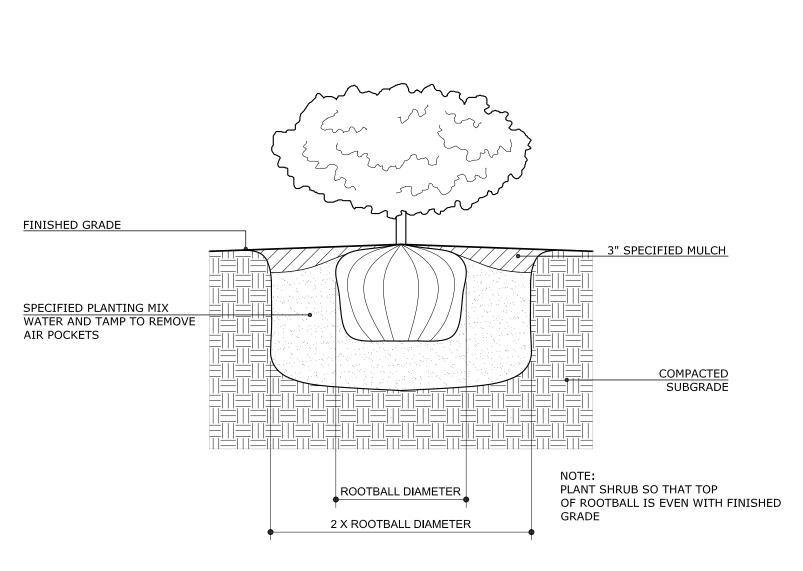
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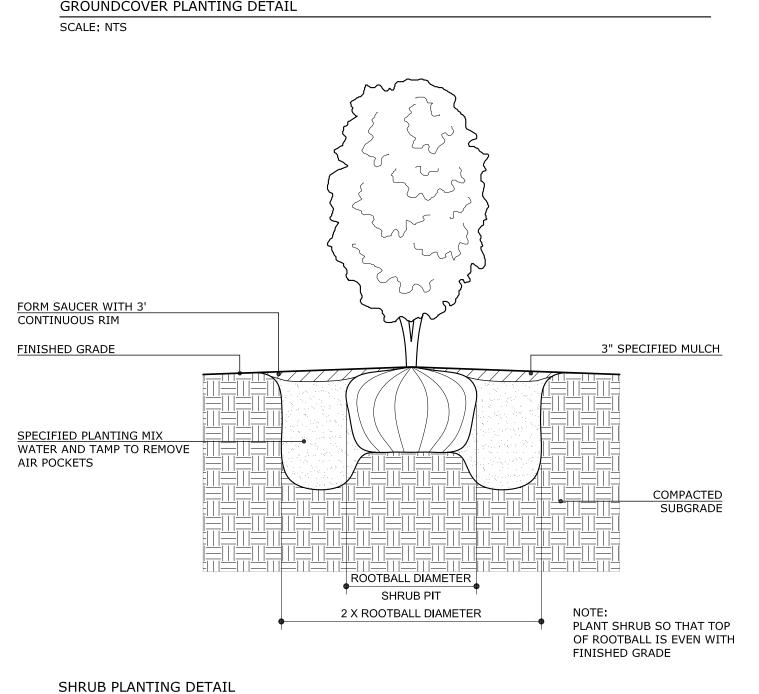
PLANTING DETAILS

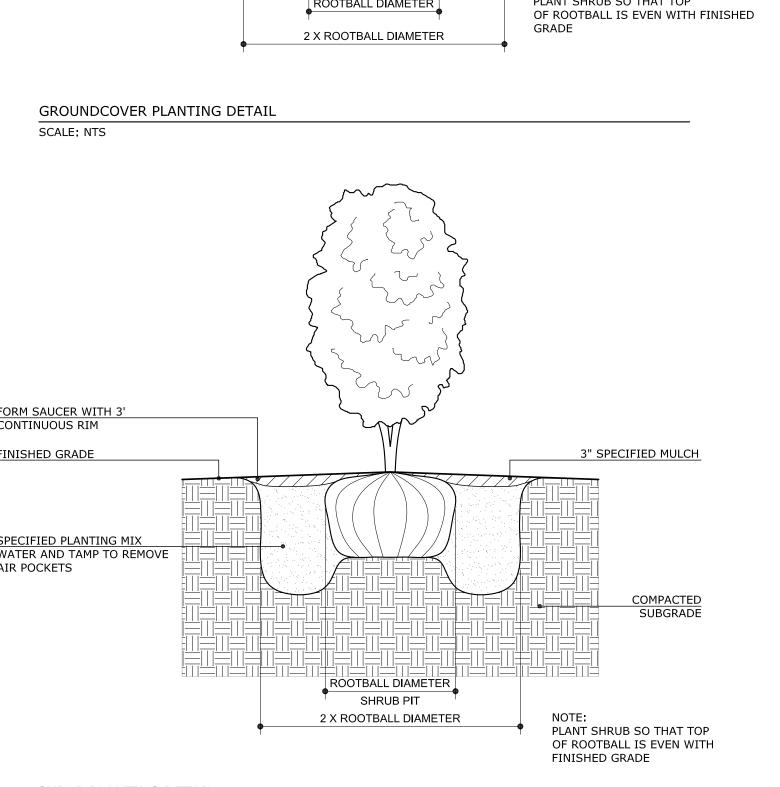


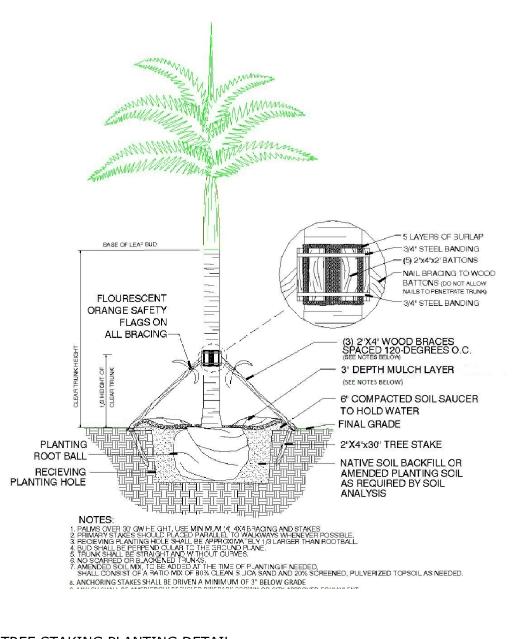




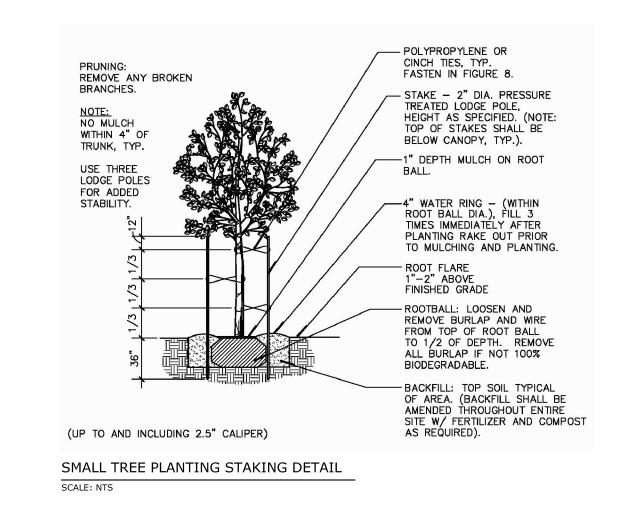


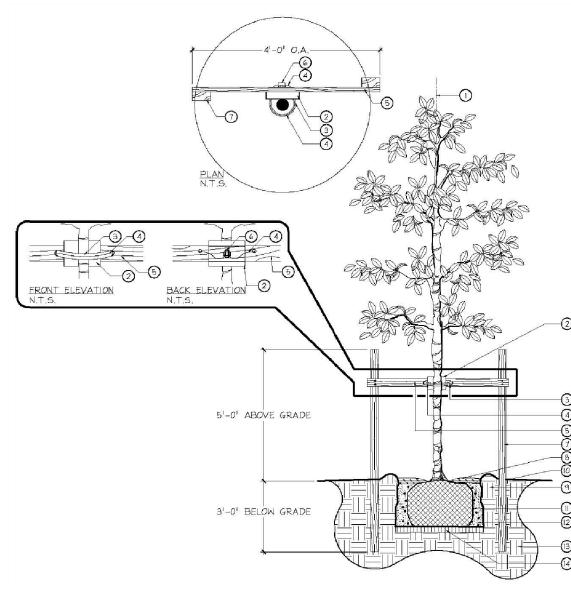


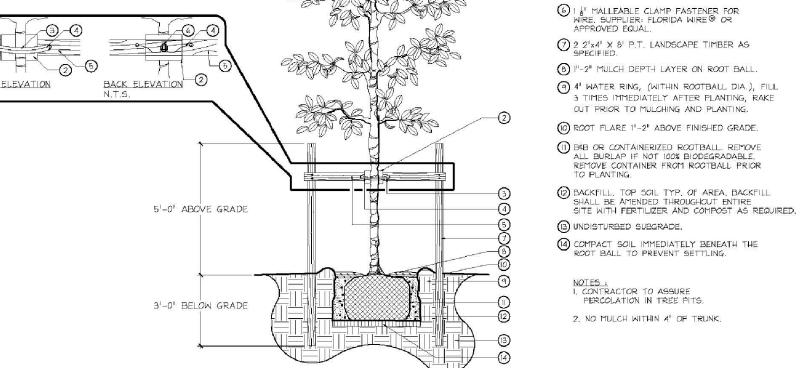




PALM TREE STAKING PLANTING DETAIL SCALE: NTS







SET TREE PLUMB IN PLANTING PIT.

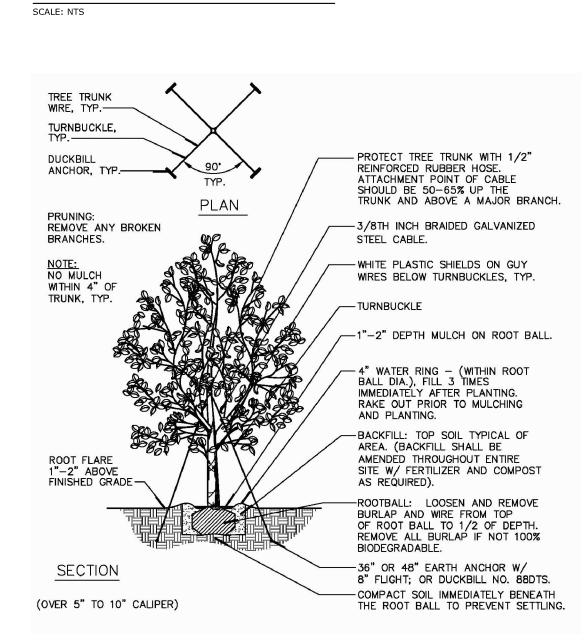
2) PROTECT TREE TRUNK WITH I NOMACO® STYROFOAM PADDING GUARDS, #6UD48048, AS SPECIFIED, OR APPROVED EQUAL.

(3) AMAZON HOUSE AND RUBBER® I 4" AIR HOSE #KI146 OR APPROVED EQUAL, TO COVER 10 GAUGE WIRE.

(5) I 2"x4"x4" NON TREATED LANDSCAPE TIMBER AS SPECIFIED, FASTEN WITH 4 3½" DECK SCREWS TO 2"x4"x8" P.T. LANDSCAPE TIMBERS.

4 I 10 GAUGE GALVANIZED WIRE. WIRE PRODUCT®, OR APPROVED EQUAL.





LARGE TREE PLANTING STAKING DETAIL SCALE: NTS

SCALE: NTS

SECTION

GRASSPAVE DETAIL, TYP

TREE / PALM PROTECTION DETAIL

ENLARGEMENT

PLAN

TOP OF GRASS ROOT MASS 1/4" ABOVE TOP OF RING

ROOT MASS TO FILL

GRASSPAVE2 RINGS

GRASSPAVE2 SYSTEM

METAL EDGING

PLANTING BED

METAL EDGING

RINGS FILLED WITH

COMPACTED SANDY

NON-WOVEN FILTER FABRIC

NOTE: INSTALL GRASSPAVE2 SYSTEM

AND RECOMMENDATIONS.

PER MANUFACTURER'S SPECIFICATIONS

COMPACTED SUBGRADE

CONCRETE SAND (CLEAN, SHARP SAND)

REFER TO PLANTING PLAN FOR SOD SPECIFICATIONS

HYDROGROW MIX BELOW RING SUPPLIED BY MANUFACTURER

GRAVEL BASE COURSE

SNAP-FIT FASTENER ATTACHMENT

SCALE: NTS

FROM APPROVED AS-BUILTS FOR REFERENCE ONLY

seal

FOR THE FIRM:_____

GENERAL LANDSCAPE NOTES:

IRRIGATION 1. Description of work:

a. Extent of Irrigation system is shown on drawings.

2. Quality Assurance:

b. Manufacturer qualifications: Provide irrigation system as a complete unit produced by a single acceptable manufacturer, including heads, valves, piping circuits, controls, and accessories unless otherwise noted on drawings.

3. Submittals: a. Product Data: Submit Manufacturer's technical data and installation instructions for

b. Shop Drawings: Submit shop drawings for landscape irrigation system including plan layout and details illustrating location and type of heads, valves, piping circuits, controls, and accessories.

4 Execution:

i. Location of Heads: Design location on drawings is approximate. Make minor adjustments

as necessary to avoid plantings and other obstructions. b. Trenching and backfilling:

 i. General: Excavate straight and true with bottom uniformly sloped to low points. ii.Trench depth: Excavate trenches to a depth of 3" below invert unless otherwise indicated. iii. Minimum cover: Provide a minimum of cover of 16" for main line and 12" for lateral lines over top of installed piping. Drip lines shall be installed over soil and under mulch. iv.Backfill: Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1" diameter. Place acceptable backfill material in 6" lifts,

compacting each lift. c Testing: i. General: Notify Landscape Architect in writing when testing will be conducted. Conduct

tests in presence of Landscape architect. ii. Hydrostatic test: Test water piping and valves before backfilling trenches, to a hydrostatic pressure of not less than 100 psi. Piping may be tested in sections to expedite work. Remove and repair piping, connections, valves which do not pass hydrostatic testing. iii. Operational Testing: Perform operational testing after hydrostatic testing is completed, backfill is in place, and sprinkler heads adjusted to final position.

i. The Contractor shall maintain one record set of blueprint of the irrigation system in good condition at the site and mark on them the exact 'record' in red marks. The Contractor shall make a daily record of all work installed during each day. Drawings shall indicate the exact location of check valves, gate valves, wire locations, head layout, automatic valves, quick couplers, all irrigation and drainage piping, etc., shall be shown on prints. Locations should be shown by the triangular system of measurements from easily identified permanent features, such as buildings, curbs, fences, walks, etc. Drawings shall show approved substitutions if any, of material including manufacturer's name and catalogue number. Drawings shall be to scale and all information shall be recorded in a neat, orderly

LANDSCAPING 1. Scope of work

d. Record Drawings

a. The work consists of furnishing all labor, materials, equipment, tools, transportation, and any other appurtenances necessary for the completion of this project as shown on the drawings, as included in the plant list, and as herein specified.

b. Work shall include maintenance and watering of all planting areas of this drawing set until certification of acceptability by the owner and/or the Landscape Architect.

c. Protection of existing structures, all existing buildings, walks, walls, paving, piping, and other items of construction and planting already completed or established shall be protected from damage by the contractor unless otherwise specified. All damage resulting from negligence shall be repaired or replaced to the satisfaction of the owner and costs by contractor.

2. Transplanting/ Relocating Trees

a. General: Transplanting shall consist of on-site transplanting of existing plant materials from proposed construction areas to permanent positions as noted on drawings.

b. Materials to be transplanted shall be root pruned a minimum of six weeks prior to re-location. Contractor shall maintain transplanted materials during construction period by watering, weeding, mowing, spraying, fertilizing, pruning, and other horticultural practices. c. Owner and/or Landscape Architect shall regularly inspect the relocated materials to ensure that all horticultural practices are being adhered to. Owner shall submit a written report to landscape contractor notifying him of any deficiencies found during the

d. Any loss of plant materials due to the negligence of the Landscape Contractor shall result in the replacement of the material at no additional cost to the owner. Said plant materials shall be replaced with the same species of equal size.

e. Transplanting Operations: The landscape contractor shall take all precautions to minimize shock of root pruning and transplanting in accordance with nursery trade procedures including the following: i. Root prune one third of ball at a time

ii. Thin out the interior crown of dicots, in a similar sequence, to compensate for root loss,

leaving the entire canopy intact. iii. Leave monocot leaves alone, allowing plant to balance itself. Protect growing point as

iv. After root pruning, backfill with good organic rooting medium. Fertilize with organic fertilizer to promote root growth and use 'Root Stimulator and Starter' by Green Light or approved equal.

v. Mulch to reduce weeds, discourage foot traffic and its compacting effect, conserve moisture and minimize temperature fluctuation.

vi.Brace trunk and leave in place until trees are windform (+/- 1 Year). vii. At the time of planting, fill air pockets to keep roots, especially feeder roots moist, alive and healthy. Use soil needle for watering new transplant. Direct fine spray at foliage to help harden off new leaves.

a. General samples of materials as listed below shall be submitted for approval, on the site or as otherwise determined by the owner or Landscape Architect, at least fourteen (14) working days prior to its intended delivery to the site. Upon approval of samples, delivery

of materials may begin. i. Mulch - One (1) Cubic foot ii.Root Stimulator - One (1) container

iii. Fertilizer - One (1) Containei iv. Topsoil - One (1) Cubic Yard

v. Plants - One (1) of each variety

vi.Planting mix - One (1) Cubic Yard 4 Tree protection

5. The Landscape Architect reserves the right to reject planting mix utilized that fails to meet the specification at any time during execution of work. 6. Planting mix shall be 70/30 mix. 70% crushed oolitic limestone or sand, and 30% organic

material (composed of 15% decomposed wood chips and 15% everglades peat).

a. Plant species and size shall conform to those indicated on the drawings and cited herein. All sizes shown for plant material on the plan are to be considered as minimums. b. All plants shall be Florida grade No.1 or better, graded in accordance with Grades and

Standards for Nursery plants, published by the State of Florida, Department of

judged to be not in accordance with these standards will be rejected, and shall be immediately removed from the site of the work. c. All quantities indicated on the plant list are intended as a guide for the bidders and does

Agriculture. Trees and shrubs shall have pronounced symmetry of foliar crown. Plants

not relieve the bidder of his responsibility to do a comprehensive plant take off. Should a discrepancy occur between the bidder's take off and the plant list quantity, the Landscape Architect is to be notified for clarification prior to final bid acceptance d. Commercial Fertilizer:

i. Commercial fertilizer shall be a complete formula; it shall be uniform in composition, dry and free flowing. This fertilizer shall be delivered to the site in the original unopened containers, each bearing the manufacturer's guaranteed statement of analysis. ii.Fertilizer shall be organic in material containing nitrogen, phosphoric acid and potash in

equal percentages of plant food by weight, in the following form: 7. Containerized material (i.e. shrubs, vines, ground covers) shall receive a granular such as

'Tri-nite' or approved equal. 8. Specimens shall receive time-released fertilizer, such as osmocote, or approved equal. a. This instruction shall supersede other notes regarding fertilizers on the drawings or

i. Mulch: Pine chips

ii. 'Florimulch' free of weed retardant, Certified by the Florida Department of Agriculture. iii. Mulch material shall be moistened at the time of application. All trees, shrubs, and ground cover beds shall receive a minimum of 2" of small pine bark chips immediately after planting.

b. Sod:

c. Grass species: Zoysia spp d. American Sod Producers Association (ASAP) Grade: Nursery grown or approved. Field

grown sod is not acceptable. e. Furnished in pads: 18" x 24". 1" thick excluding top growth and thatch.

f. Not stretched, broken or torn. g. Uniformly mowed height when harvested.

i. Inspected and found free of diseases, nematodes, pests, and pest larvae.

ii. Uniform in color, leaf texture, and density. iii. Do not deliver more sod than can be installed within 24 hours.

iv. Begin installation of sod after preceding work (i.e. earth work, underground sprinkler system, soil preparation, installation of trees, shrubs and ground covers, etc.) v. Installation:

9. Transplant sod within 48 hours after harvesting

10. Contractor shall sod all areas that are not paved or planted as designated on the drawings

11. Begin sodding at bottom of slopes 12. Lay first row of sod in straight line with long dimension of pads parallel to slope contours

i. Soil Preparation:

13. Lay all rows with alternating and abutting joints.

14. Do not stretch or overlap rows

15. Roll sod, except pegged areas, with roller weighing no more than 100lbs per foot of roller width. During rolling, all depressions caused by settlement of rolling shall be filled with additional soil, and the surface shall be re-graded and rolled until presenting a smooth and even finish that is up to the required grade.

16. Prepare loose bed four (4) inches deep. Apply fertilizer at rate of twenty (20) pounds per one thousand (1000) square feet. Application shall be uniform, utilizing approved mechanical spreaders. Mix fertilizer thoroughly with the soil to a depth of three (3) inches. Hand rake until all bumps and depressions are removed.

i. Watering 17. Water sod and soil to depth of 6" within four hours after rolling.

18. Keep sod moist during first week after planting. 19. After first week, supplement rainfall to produce a total of 2" per day.

20. It is the contractor's responsibility to water all plant material.

i. Trees: ii. Trees and palms shall be freshly dug, balled and burlapped. All plant material shall be free of broken or damaged root balls, or root bound conditions. Plant materials shall be sounds, healthy, vigorous, free from plant disease, insect pests or their eggs, and shall have

healthy, normal root systems. iii. Trees are noted on plans and herein as approved by the Landscape Architect.

iv. Landscape architect shall tag all trees. Tags shall not be removed: absence of tag at delivery to project site will be grounds for rejection of the tree.

v. Substitutions in plant species or sizes shall be made only after written authorization by the Landscape Architect.

vi. The height and or width of trees shall be measured from the top of the root ball to the top of canopy. This measurement shall not include the immediate terminal growth. vii. Plants larger in size than those specified in the plant list may be used if approve by the owner and/or Landscape Architect. If the use of larger plants is approved, the ball of earth

or spread of roots shall be increased in proportion to the size of the plant. viii. Plants shall be subject to inspection and approval at the place of growth, or upon delivery to the site, as determined by the owner and/or Landscape Architect, for quality, size, and variety; such approval shall not impair the right of inspection and rejection at the site during progress of the work or after completion for size and condition of balls or roots,

latent defects or injuries. Rejected plants shall be removed immediately from the site. Notice requesting inspection shall be submitted in writing at least one (1) week prior to anticipated

vi.Caliper measurement (DBH, 54" above crown of root ball), height and spread measurements, root ball dimensions, and container size when applicable, shall conform to the applicable standards established within reference documents cited herein, and the requirements for this project.

21. Execution a. Inspection

i. In the event of discrepancy, immediately notify Landscape Architect. ii.Do not proceed with installation of materials or plants in areas of discrepancy until all such discrepancies have been fully resolved to the satisfaction of the owner and/or Landscape

Architect. b. Preparation i. Verify locations of all utilities, conduits, supply lines and cables, including but not limited to: electrical, gas (lines and tanks), water, sanitary sewer, storm water lines, cable and

telephone. Properly maintain and protect existing utilities. ii.Stake or mark with paint the proposed location of all trees and palms to be planted.

iv. Provide plant materials, fertilizer, sod, planting mix, and incidental materials as specified.

v. Set Plants, backfill, and guy or brace plants as required. vi. Complete incidental work related to planting operations, and as specified. c. Application

i. Finish sub-grade: upon acceptance of rough grading elevations, establish fine sub-grade with smooth and even finish. Remove rocks exceeding one (1) inch diameter, sticks, debris, deleterious material, grass and soil clods, and vegetation. d. Planting:

i. Excavation: 22. Excavations identified as having potential utility or service line conflicts shall be excavated with hand tools to determine the location of, and avoid damage to, such utilities. 23. Excavate tree and palm planting pits a minimum of 24" greater in diameter than the root ball, and minimum of 12" deeper than vertical depth of the root ball. Test soil for quality of percolation. If drainage is inadequate, create underground seepage/drainage. Notify Landscape Architect for approval. Budget should allocate an allowance to cover this possibility and should be part of the original bid.

24. Barricade or mark excavations to prevent hazards to mechanical equipment, vehicles, and pedestrians.

i. Planting:

25. Set trees in vertical position with the top of the root ball flush with the adjacent, finish grade. After settlement, the plant crown will stand one (1) to two (2) inches above grade. 26. Set plant in upright position in center of planting pit and place specified planting mix under and around the root ball. For burlapped root balls, cut top 1/3 of burlap away from root ball, and turn down into the side of the planting pit, before placing planting mix around the root ball.

equal is recommended. 28. Prune trees, removing no more than 1/3 of twigs and branches, while maintaining the uniform character and shape of the tree. Remove all dead, diseased, rubbing, and dying branches. All

27. Proper "Jetting in" shall be assured to eliminate air pockets around the roots. 'Jet stick' or

plant material shall meet specifications after pruning. 29. Earth shall be banked at edge of each planting pit to form a watering saucer approximately 6" in depth. Flush planting soil into place with slow hose stream until air pockets are eliminated

around root ball, and pit is filled with Planting Mix to top of root ball. 30. Place mulch in loose measure 2" min. layer within each watering saucer.

31. If planting is performed after sod placement, proper protection shall be provided and damage resulting from planting operations shall be repaired promptly.

32. Tree Guying: For materials to 12' in height, a minimum of four woven anchor strap lines each at ninety degrees from and connected to tree trunk, and anchored below grade with pressure treated stakes. Secure tree against movement in wind.

33. Tree Bracing: For materials greater than 12' in height, a minimum of three 2x4 appearance grade braces, set at 60 degrees to the ground plane, equidistant around the trunk of the tree, and secured into the ground plane with one, 12" #4 rebar or ½" galvanized pipe passing through each such 2x4 brace, driven into the ground, and set flush with the top of the brace. Secure each angled brace to one 12" long 2x4 vertical block over four layers of burlap. Secure blocks with two metal or plastic straps, one 3" from the top and one 3" from the bottom of each block. Nail brace to block with four 16d nails. See planting details sheet L.60a for additional information and bracing details.

34. There will be no plant material planted into root balls of trees and palms.

35. Shrubs and ground covers shall be evenly spaced in accordance with the drawing and as indicated on the plant list. Cultivate all planting areas to a minimum depth of 6", remove and dispose of all debris. Till into top 4" the planting soil mix as specified. Thoroughly water all plants after installation.

i. Contractor is responsibly to maintenance on all Landscape materials, including sod, for no less than ninety (90) days after acceptance by owner.

ii. After ninety (90) days, contactor must visit the site once every month for twelve (9) months, and shall provide the Owner with a written letter notifying the owner of any wrong doing, negligence, or issues that might affect the Owner's warranty.

iii. Contactor shall warranty all landscape material for no less than (12) months after final acceptance by the Owner. 37. Certificates:

i. Grass species, and location of field from which sod is cut. ii. Compliance with state and federal quarantine restrictions.

a. Manufacturer's certificate of fertilizer and herbicide composition.

b. Certificates from suppliers stating that the delivered planting mix, delivered plant materials, and fertilizer comply with requirements specified.

c. Certificates of inspections: Shipments or orders of plant material shall be properly inspected at nursery or growing site by authorized federal and state authorities; include certificates with shipment.

GENERAL SUBMITTALS 1. Shop Drawings, Product data, Mock-ups, or Samples for the following:

a. Fence/gates - Sample, 2' with all members and connections b. Electrical Fixtures - Product Data, and foundation details (Shall be included in contractor's

c Furniture - Product Data

d. Landscape Materials - Samples per documents herein e. Geotextile materials - Sample

f. Landscape Irrigation Data - Shop Drawings and Product Data g. Root barriers - Product Data

h. Concrete mix and colors - Design Mix sample and Product Sample. Create on site a mock up 6'x6' of the finished concrete slab and do not destroy or remove from the job site until completion of all slabs on grade and acceptance by owner and Landscape Architect.

i. Storm drainage materials - Product Data j. Caulks and sealants - Product Data

k.Stain and paint - Sample

I. Steel edging - Product Data m.Fertilizer - Product Data

n. Root stimulators - Product Data

o. Fill material for rough and fine grading - Product data and Sample p. Tree bracing details - Shop Drawings

q. Decorative gravel - Sample

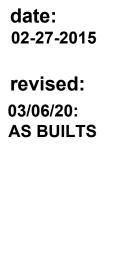
r.Water features - Shop Drawings s.lpe deck fasteners and hardware, lpe products - Sample

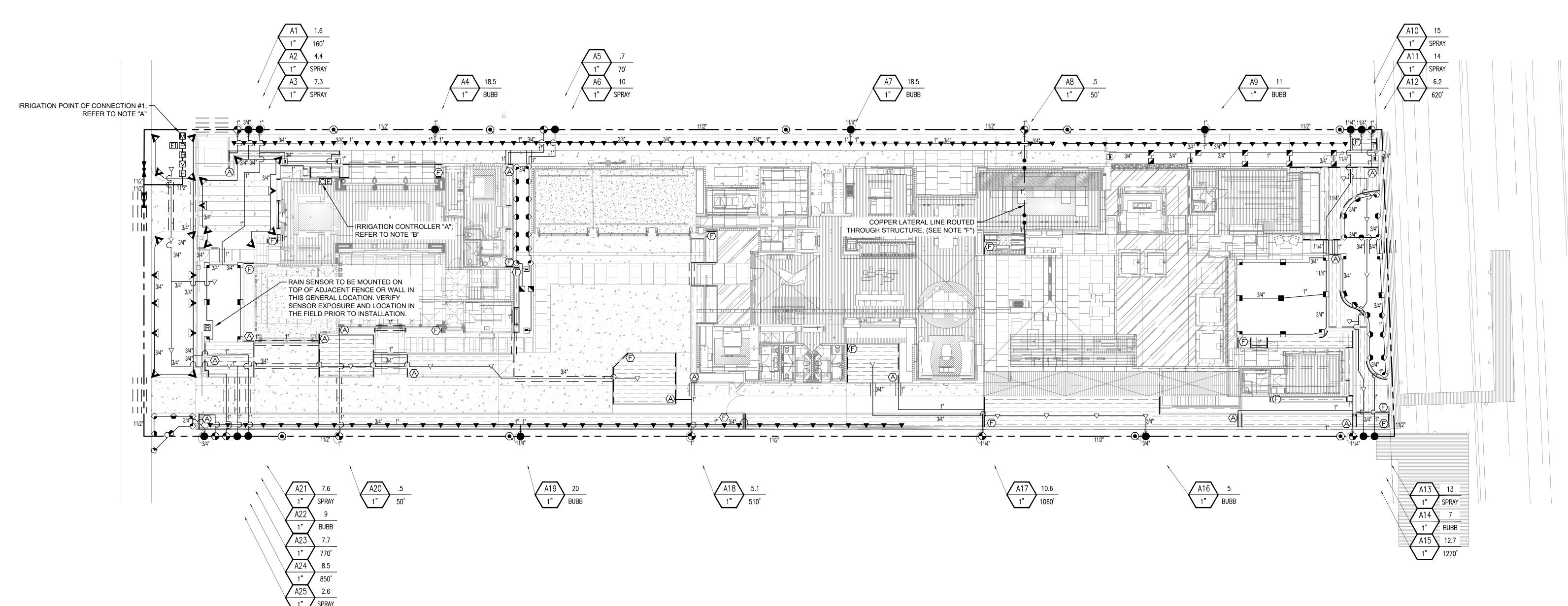
t.Grasspave - Product Data and Sample u.Sand stabilizer - Product Data 2. Soil mixture documentation and certification

3. Nursery certification for all plant materials. 4. All mock ups, samples, shop drawings shall be a part of the original contract cost.

> sheet no. **L.302**

PLANTING NOTES





SCALE: 1/16" = 1'-0

WATER MET	FR NUMBER	1	WATER MET	FR SIZE	(Inch	25)		1.50	
	GRADE LINE (FT)	0 WATER METER ELEVATION (FT)						0	
With the Australian Company of the Company	DIFFERENCE (FT)	0	STATIC PRES					48.0	
	NTROL VALVE #	A19	REMOTE CO		,	C17E /ln \		1.00	
R.C.V. DEMA		20	TOTAL DEMA			SIZE (III.)		20	
	AD SERVED (FT)	0			,	SHEST HEAD		0.0	
HOHEOTHE	TO SERVED (1 1)	_						8-3-14 No.	
	eeney + associates	BY SWEENE	PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.						
SIZE (Inches)	DESCRIPTION			FLOW	#	LOSS			
1.50	SERVICE LINE (50 FT OF	TYPE K COP	PER)	20	1	0.92	PSI		
1.50	WATER METER (XXXX T)	(PE)	,	20	2	0.80	PSI		
1.50	BACKFLOW PREVENTE	R (R/P TYPE)		20	3	12.00	PSI		
1.50	FILTRATION (WYE FILTE	R)		20	4	1.00	PSI		
1.50	BFD ASSEMBLY PIPING	(BRASS W/ 4	ELLS)	20	6	1.10	PSI		
1.00	MASTER CONTROL VAL	VE		20	7	2.90	PSI		
1.00	FLOW SENSOR			20	8	1.00	PSI		
1.50	ISOLATION VALVES (BA	LL TYPE)		20	9	1.00	PSI		
1.50	250 FEET OF MAINLINE:	SCH. 40 PVC		20	10	2.85	PSI		
1.50	5 - 90 DEGREE ELBOWS	3		20	13	0.97	PSI		
1.00	00 REMOTE CONTROL VALVE ASSEMBLY					2.90	PSI		
10%	LATERAL LINE LOSSES		20	15	3.00	PSI			
20%	FITTING LOSS (IN ADDIT	ION TO ELBOV	VS SHOWN)	N/A	16	0.57	PSI		
0.00	ELEVATION CHANGE (P	.O.C. TO HIGH	EST HEAD)	N/A	17	0.00	PSI		
TOTAL SYST	EM PRESSURE LOSS (SU	M OF #1 THRU	J #17)		18	31.0	PSI		
PRESSURE F	REQUIRED AT HEAD (OPE	RATING PRES	SURE)		19	30.0	PSI		
TOTAL PRES	SURE REQUIRED (SÚM C	F #18 AND #19	9)		20	61.0	PSI		
STATIC WAT	ER PRESSURE (FROM AE	BOVE)			21	48.0	PSI		

PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL) 24 33.0 PSI

SET PRV OR MCV AT (#20 PLUS 10 PSI)

POINT OF CONNECTION (POC) #1 SHALL BE A 1 1/2" DOMESTIC WATER METER WITH A 1 1/2" SERVICE LINE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION, WATER TYPE,

MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE FOR POTABLE WATER SYSTEMS WHERE NO PUMP HAS BEEN INDICATED ON THESE PLANS. WHEN USING RECYCLED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PUMP, ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER PRESSURE, SHALL BE ACCEPTABLE. THE DYNAMIC WATER PRESSURE SHALL BE

MEASURED AT THE MAXIMUM SYSTEM DEMAND AS INDICATED BELOW. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION AS SHOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE

CONTROLLER "A" SHALL BE OF THE BRAND, MODEL AND STATION SIZE AS INDICATED ON THE IRRIGATION MATERIALS LEGEND. THE CONTROLLER SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. THE CONTRACTOR SHALL COORDINATE THE REQUIRED

CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR

THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION EQUIPMENT IS

SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION OF MAINLINE AND

RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A MINIMUM OF 18" OFF

CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD

UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE

THESE PLANS ARE DIAGRAMMATIC, TREE BUBBLERS AND LATERAL LINES ARE SHOWN

WITHIN THE PAVING FOR CLARITY ONLY, THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED

LATERAL LINE PIPING WITHIN BUILDING SHALL BE A TYPE K COPPER AND IS SHOWN FOR CLARITY ONLY, ACTUAL DESIGN AND ROUTING SHALL BE COMPLETED BY PLUMBING ENGINEER AND INSTALLED BY PLUMBING CONTRACTOR. EACH STUB-OUT WITHIN EACH PLANTER SHALL HAVE A COPPER FEMALE ADAPTER FOR THE LANDSCAPE CONTRACTOR CONNECTION. ALL PIPING THROUGH BUILDING TO EXTERIOR AND THROUGH BUILDING TO

CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED

ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNER'S AUTHORIZED

REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF

METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK.

OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MIN. REQ. PRESSURE AT POC: 70 PSI (STATIC)

ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

REPRESENTATIVE PRIOR TO STARTING WORK.

REPRESENTATIVE PRIOR TO STARTING WORK.

UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

ARTIFICIAL SOD AREAS TO HAVE IRRIGATION HEAD CAPPED OFF

DESIGN WATER PRESSURE: 61 PSI MAXIMUM SYSTEM DEMAND: 20 GPM PRESSURE BOOST REQUIRED: 33 PSI RESIDUAL WATER PRESSURE: 20 PSI

TO STARTING WORK.

-13.0 PSI

N/A PSI

IRRIGATION NOTES

- 1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- 5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
- 6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
- 7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
- 8. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 9. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
- 10. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVING TWICE THE DIAMETER OF THE PIPE CARRIED. SEE LEGEND FOR TYPE. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
- 11. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
- 12. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
- 13. CONTRACTOR SHALL INSTALL ADDITIONAL CHECK VALVES TO HEADS AND LATERALS AS REQUIRED TO PREVENT LOW HEAD DRAINAGE IF APPLICABLE.
- 14. THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT PER MANUFACTURERS SPECIFICATIONS. SWEENEY AND ASSOCIATES RECOMMENDS MEASURING FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS.

					IRRI	GATION	CONT	ROLLE	R RUN	TIMES						
POC or Controller				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Total / Avg.
	ΕT	o / Month	(Inches):	3.02	3.64	4.57	5.50	5.61	5.49	5.67	5.35	4.75	4.21	3.46	3.02	54.29
Δ	ETo / Day (Inches): Irrigation Days / Week:		0.10	0.13	0.15	0.18	0.18	0.18	0.18	0.17	0.16	0.14	0.12	0.10	0.15	
			s / Week:	7	7	7	7	7	7	7	7	7	7	7	7	
Dlant / Innier Tress	AI/a	Dr. Doto	IE	LAN	CCD	MAD	ADD	MAY	ILINI		ALIC	CED	ОСТ	NOV	DEC	
Plant / Irrig. Type	AKc	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	
Turf	0.80	0.40	0.80	14.6	19.5	22.1	27.5	27.1	27.5	27.4	25.9	23.8	20.4	17.3	14.6	Min./Day/Zone
MP Rotators	Number	of Zones:	2	29.2	39.0	44.2	55.0	54.3	54.9	54.9	51.8	47.5	40.7	34.6	29.2	Total Min./Day
Turf	0.80	1.74	0.63	4.3	5.7	6.5	8.1	8.0	8.1	8.1	7.6	7.0	6.0	5.1	4.3	Min./Day/Zone
Spray	Number	of Zones:	5	21.5	28.7	32.5	40.5	39.9	40.4	40.4	38.1	34.9	30.0	25.5	21.5	Total Min./Day
Shrubs	0.40	0.72	0.90	3.6	4.8	5.5	6.8	6.7	6.8	6.8	6.4	5.9	5.0	4.3	3.6	Min./Day/Zone
Drip Tubing	Number	of Zones:	10	36.1	48.1	54.6	67.9	67.0	67.8	67.7	63.9	58.6	50.3	42.7	36.1	Total Min./Day
Shrubs	0.40	1.14	0.90	2.3	3.0	3.4	4.3	4.2	4.3	4.3	4.0	3.7	3.2	2.7	2.3	Min./Day/Zone
Bubblers	Number	of Zones:	3	6.8	9.1	10.3	12.9	12.7	12.8	12.8	12.1	11.1	9.5	8.1	6.8	Total Min./Day
Trees	1.00	1.14	0.90	5.7	7.6	8.6	10.7	10.6	10.7	10.7	10.1	9.3	7.9	6.7	5.7	Min./Day/Zone
Bubblers	Number	of Zones:	5	28.5	38.0	43.1	53.6	52.9	53.5	53.5	50.5	46.3	39.7	33.7	28.5	Total Min./Day
Total Number of Zones: 25		25	122	163	185	230	227	229	229	216	198	170	145	122	Total Min./Day	
Total C	ontroller l	Run Time	in Hours:	2.04	2.72	3.08	3.83	3.78	3.82	3.82	3.61	3.31	2.84	2.41	2.04	Total Hrs./Day
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Note:	These sc	hedules a	re intende	d only fo	or compl	ance wit	h local r	nunicipa	l codes a	nd the w	ater effic	cient lan	dscape o	ordinance	. These	calculations
	represen	t the MAXI	IMUM REA	SONABL	E run tin	nes and a	are used	to ensur	e that all	l irrigatio	n may be	e comple	ted duri	ng the sp	ecific w	atering window

These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, site soil types, specicic exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers shall be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and rain shut off devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.

IRRIGATION MATERIAL LEGEND

FLOW RATE (GPM) PSI RADIUS P.R. (TRI.) DETAIL

Q T H F MANUFACTURER MODEL NO. / DESCRIPTION

	RAIN BIRD RAIN BIRD RAIN BIRD	1806 6" POP-UP TURF HEAD WITH 8Q/8T/8H/8 1806 6" POP-UP TURF HEAD WITH 15Q/15T/15 1806 6" POP-UP TURF HEAD WITH LCS/RCS/	5H/15F "U SERIES" NOZZLES	.26, .52 .92, 1.85, 3.70 .61, 1.21	30 30 30	8 FT 15 FT 4X15 FT	1.83 IN./HR. 1.83 IN./HR. 1.95 IN./HR.	A A A				
▼ ▼	HUNTER	PROS-06 6" POP-UP TURF HEAD WITH A MP2	000-90(Q/T/H)/360 ADJUSTABLE NOZZLE	.40, .74	40	4X30 FT 20 FT	0.45 IN./HR.	Α				
▼	RAIN BIRD	1806 6" POP-UP BUBBLER HEAD WITH A HUN SPECIMEN PLANT.	TER MSBN-50Q NOZZLE, PROVIDE ONE PER	.50	30	5 FT	2.00 IN./HR.	Α				
∇	RAIN BIRD	1806 6" POP-UP BUBBLER HEAD WITH A RAII NOZZLE, EACH SYMBOL REPRESENTS TWO BUBBLERS AT EDGE OF ROOT BALL ON OPF ADJUST BUBBLER STREAMS TO WET THE ROHITTING THE TRUNK OF THE TREE OR PALM	(2) BUBBLERS PER TREE OR PALM, PLACE COSITE SIDES OF TREE OR PALM, TYPICAL. DOT BALL AND AMENDED SOIL WITHOUT	.50 (1.0 TOTAL)	30	5 FT	N/A	A,				
	RAIN BIRD	DRIP TUBING AT 12" O.C. SPACING. DRIP TU DRIP EMITTER. DRIP TUBING SHALL BE INST ON CENTER. THE PERIMETER ROW OF DRIP SUBSEQUENT INTERIOR ROWS SHALL BE AD	PER EXTERIOR COLOR) WITH 0.60 GPH, PRESSI BING SHALL BE EQUIPPED WITH COPPER CHIP ALLED 2" BELOW FINISHED SOIL GRADE (NOT 0 TUBING SHALL BE INSTALLED A MAXIMUM OF DJUSTED TO PROVIDE AN EVEN SPACING ACRO	TECHNOLOGY TO PREVENT COUNTING MULCH) AND IN I 4" FROM THE EDGE OF ANY ISS THE PLANTER WITHOUT	ROOT I PARALLE HARDS EXCEE	NTRUSION II EL ROWS A M CAPE OR TU DING 16" MA	NTO THE MAXIMUM OF 16" RF EDGE. ALL XIMUM SPACING.	D,				
NO SYMBOL	RAIN BIRD	SHALL BE MODEL #GDTS140900 AS MANUFAREPRESENT THE APPROXIMATE DIRECTION CONNECTION BETWEEN XFS DRIP TUBING A PVC THREADED FITTINGS, SCH. 80 NIPPLES THREADED 90° ELBOW, A 1/2" X LENGTH AS BARB X 1/2" MIPT ADAPTER FITTING. WHEN 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THE	G STAKES A MAXIMUM OF FIVE (5) FEET ON CECTURED BY GPH IRRIGATION PRODUCTS (866) AND SPACING OF THE DRIP TUBING ROWS, SEND PVC SUPPLY AND DISCHARGE HEADERS SIAND FLEXIBLE NIPPLES. WHEN THE CONNECT REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1THE CONNECTION IS IN THE MIDDLE OF THE TUREADED NIPPLE, A 17EADED NIPPLE, A 17EA	582-9684. THE HATCH PATT E ACTUAL SPACING REQUIF HALL BE MADE USING XF DF ION IS AT THE END RUN OF /2" X 6" MIPT X FIPT FLEXIBI JBING RUN USE A 1/2" SCH. BLE NIPPLE, AND TWO (2) X	ERN SY REMENT RIP LINE THE TUI LE NIPPL 40 PVC T FF-MA-0	MBOLS ON T S ABOVE AN BARBED FIT BING USE A .E, AND A XF THREADED T 50 17mm BAF	THE PLANS D IN DETAILS. TINGS, SCH. 40 1/2" SCH. 40 PVC F-MA-050 17mm TEE FITTING, A RB X 1/2" MIPT	D,				
NO SYMBOL	RAIN BIRD	MANUFACTURED BY GPH IRRIGATION PROD						D,				
	AS APPROVED	SHALL BE INSTALLED USING A FITINS-TOOL	FOR PROPER INSERTION OF THE FITTING INTO	THE TUBING. NO HEATING	OF TUB	ING SHALL B	E ALLOWED.	·				
NO SYMBOL	RAIN BIRD	WHERE VINES ARE PLANTED ON WALLS, FEITHESE VINE PLANTINGS. THE CONTRACTOR SHALL BE PUNCHED DIRECTLY INTO THE DEFINITER SHALL BE INSTALLED WITH AN 18"	ALL BE INSTALLED USING A FITINS-TOOL FOR PROPER INSERTION OF THE FITTING INTO THE TUBING. NO HEATING OF TUBING SHALL BE ALLOWED. C SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS. D,E IERE VINES ARE PLANTED ON WALLS, FENCES OR COLUMNS WITHIN THE DRIP TUBING ZONES, ADDITIONAL DRIP EMITTERS SHALL BE REQUIRED FOR ESE VINE PLANTINGS. THE CONTRACTOR SHALL INSTALL TWO (2) XB-10PC 1 GPH DRIP EMITTERS PER VINE PLANTING. THESE ADDITIONAL EMITTERS ALL BE PUNCHED DIRECTLY INTO THE DRIP TUBING. EMITTERS SHALL BE INSTALLED USING A XM-TOOL EMITTER INSTALLATION TOOL. EACH DRIP ITTER SHALL BE INSTALLED WITH AN 18" LENGTH OF XQ-1/4" DISTRIBUTION TUBING, A TS-025 TUBING STAKE AND A DBC-025 DIFFUSER BUG CAP. CATE EMITTER OUTLETS DIRECTLY OVER THE ROOT BALL OF THE VINE PLANTING.									
Ē	LASCO		S AND A LASCO MHT-105 3/4" MHT X 1/2" SPIGO PLANS FOR LOCATIONS. INSTALL INSIDE A 10"		FHT-301	HOSE THRE	EAD CAP, FOR	E				
	RAIN BIRD	REDUCER BUSHING. INSTALL AIR RELIEF AS ARV'S PER DRIP ZONE. USING AN AIR RELIE	ED WITH A XFD-TFA-075 BARB X BARB X 3/4" FI SEMBLY AT THE HIGH POINT OF EACH PLANTE F LATERAL CONSTRUCTED OF XFD "BLANK" XF JLTIPLE ARV'S MAY BE REQUIRED PER DRIP TU	R. SEE PLANS FOR APPRO TUBING, CONNECT AIR REI	XIMATE LIEF VAL	LOCATION A VE TO ALL D	ND QUANTITY OF RIP LINE	E				
M	P.O.C.	,	WITH 1 1/2" SERVICE LINE. VERIFY METER SIZE					٨				
B P	WILKINS		DEVICE WITH WYE STRAINER, INSTALL WITH B	·		•		- 1				
	HOOVER	CAVIOLI AT HOOVER PUMPS @ 954-275-6731 (NOTE THAT THE BOOSTER PUMP HAS BEEN CONSULTANT IF THE WATER PRESSURE AT	STER PUMP MOD# HCF-1.5PDV-230/1-Y INSTALL CONTRACTOR SHALL VERIFY EXISTING POWE PROVIDED AS AN OPTION IF THE STATIC WAT ITHE SITE IS FOUND TO BE DIFFERENT THAN THE SHALL BE DONE PRIOR TO START OF WOR	R SUPPLY AND WATER PRE ER PRESSURE IS LESS THA IE 70 PSI NOTED ON THE PL	SSURE I N 70 PSI	PRIOR TO OF CONTACT T	RDERING PUMP THE IRRIGATION	l				
lacksquare	RAIN BIRD	100-PEB-PRS-D 1" NORMALLY CLOSED, PRES	SURE REGULATING, PLASTIC MASTER CONTRO ALL INSIDE A STANDARD RECTANGULAR VALVE	, DL VALVE. WIRE MCV TO TH	HE CONT	ROLLER US	ING A	J				
E	CST	FSI-T10-001 1" PVC TEE, HDPE IMPELLER TYF (GRAY) ELECTRICAL CONDUIT. INSTALL PER	PE FLOW SENSOR, WIRE TO CONTROLLER USIN MANUFACTURER'S RECOMMENDATIONS AND ENTATIVE, GENTILE & ASSOCIATES (STEVEN K	IG TWO (2) #14UF AWG WIR INSIDE A STANDARD RECT	ANGULA	R VALVE BO	X. CONTACT	ŀ				
>>	LASCO	V17101N-SC 1 1/2" SLO-CLOSE SCH. 80 PVC, INSTALL INSIDE A 10" ROUND VALVE BOX.	TRUE-UNION BALL VALVE WITH SOLVENT WELI) SOCKET CONNECTIONS, L	INE SIZE	PER MAINL	INE.	L				
•	RAIN BIRD RAIN BIRD	100-PEB-PRS-D PRESSURE REGULATING, PL REGULATOR TO PROVIDE THE OPERATING F	KING VINYL COVER AND A LASCO G13S-218 SW ASTIC REMOTE CONTROL VALVE (RCV), SIZE A RESSURE OF THE SPRINKLER / BUBBLER HEAL ISIDE A STANDARD RECTANGULAR VALVE BOX	S SHOWN (1" SIZE), SET PR O TO THE HIGHEST OR FAR	S-D PRE	SSURE		N				
•	RAIN BIRD	100-PEB PLASTIC DRIP REMOTE CONTROL V	ALVE, SIZE AS SHOWN (1" SIZE). INSTALL A DIS IOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S	C FILTER AND AN INLINE PF				C				
	RAIN MASTER	CONTROLLER IS COMPLETE WITH TWO (2) Y AND FULLY PROGRAM THE CONTROLLER FO	LER WITH INTERNET COMMUNICATIONS CARD EARS OF ICENTRAL INTERNET BASED CENTRAL OR AUTOMATIC PROGRAM ADJUSTMENT WITH F OGRAMMING TO THE OWNER. IF NECESSARY,	CONTROL. CONTRACTOR RAINMASTER WEATHER DA	TO REG TA DOWI	ISTER ICENT NLOAD. CON	TRAL SOFTWARE ITRACTOR TO	F				
R	RAIN MASTER		RSS ENCLOSURE ON TOP OF FENCE OR WALL				G. 1.1.G. 1.1	٧				
E	N/A	120 VOLT ELECTRICAL POWER FOR CONTRO	LLER, PROVIDED BY ELECTRICIAN, VERIFY AC	TUAL LOCATION IN FIELD				١				
E1	N/A	,	AL POWER FOR BOOSTER PUMP SYSTEM, PRO				TION IN FIELD	1				
	AS APPROVED AS APPROVED		D WITH SCH. 40 PVC FITTINGS, AS LATERAL LIN TH SCH. 80 PVC FITTINGS, AS MAINLINES INSTA			JGRADE		(
	AS APPROVED	PAVING, HARDSCAPE, ETC. (OR AS DIRECTE	E DIAMETER OF PIPE OR WIRE BUNDLE CARRIE D BY OWNER'S AUTHORIZED REPRESENTATIVE GRADE. SLEEVES UNDER VEHICULAR PAVING S	E) INSIDE SLEEVES. SLEEVI	ES UNDE	R PEDESTR	IAN PAVING	ſ				
· · ·	AS APPROVED	PLUMBING ENGINEER AND BE SHOWN ON TH	PLANTERS, AND THROUGH BUILDING AND GAI HE PLUMBING PLANS. COPPER PIPING SHALL B	BE INSTALLED BY THE PLUM	IBER. C	OPPER PIPIN		1				
• • • • • • • • • • • • • • • • • • • •	AS APPROVED	CONNECTION POINT BETWEEN COPPER PIP SIZED SWEAT X FIPT COPPER ADAPTER PRO	N, SIZE AND STUB-OUTS OF COPPER PIPING IN NG (PROVIDED BY PLUMBER) AND PVC IRRIGA OVIDED FOR CONNECTION TO THE IRRIGATION IECTION. VERIFY LOCATION, SIZE AND STUB-C	TION PIPING. COPPER PIPE PIPING. USE A LINE SIZED	STUB-C	OUT SHALL H	VC NIPPLE AND					
NO SYMBOL	LASCO	PIPE. ALL FITTINGS USED WITH SOLVENT W	AINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, ELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC ALL BE SCH. 80 PVC PIPE, DARK GRAY IN COLO	, WHITE IN COLOR, AND SIZ	ED TO M			1				
NO SYMBOL	CHRISTY'S	CEMENT. PRIMER SHALL BE LOW VOC "PUR LINE SOLVENT CEMENT SHALL BE LOW VOC	TH MAINLINE AND LATERAL LINE SHALL BE MAI PLE PRIMER". MAINLINE SOLVENT CEMENT SH "RED HOT BLUE GLUE" CEMENT. USE DAUBEI DINTS SHALL BE MADE PER THE PIPE AND FITTI	ALL BE LOW VOC, "GRAY-HI RS SIZED AT LEAST ONE-HA	EAVY BC	DY" CEMEN SIZE OF THE	T. LATERAL	1				
NO SYMBOL	AS APPROVED	1" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT OR ANY SPLICES. INSTALL INSIDE A STANDA	FOR FLOW SENSOR. PROVIDE PULL BOX AT A	MAXIMUM OF 200 FEET ON	CENTER	R FOR A 3 FC	OOT WIRE LOOP	1				
NO SYMBOL	PAIGE ELECTRIC	P7079D POLYETHYLENE INSULATED, SOLID OF WIRES SHALL BE RED IN COLOR, COMMON CONTROLLERS ARE USED ON THE PROJECT TWO (2) SPARE CONTROL WIRES (YELLOW)	COPPER CONDUCTOR IRRIGATION CONTROL WEROUND WIRE SHALL BE WHITE IN COLOR, SPA , EACH CONTROLLER SHALL HAVE A DIFFEREN FROM THE CONTROLLER ALONG THE MAINLINE X ALONG THE MAINLINE, PROVIDING A 3 FOOT	RE WIRES SHALL BE YELLO IT COLOR FOR PILOT WIRES IN ALL DIRECTIONS AWAY	W IN CC 3. THE C	LOR. WHER	RÉ MULTIPLE R SHALL ROUTE	١				
NO SYMBOL	3M		TER-PROOF WIRE CONNECTORS FOR USE ON		NNECTIO	ONS		5				
NO SYMBOL	RAIN BIRD	·	STIC TYPE WITH OVERLAPPING LIDS. COVERS BE BLACK. ALL BOXES SHALL BE SECURED WI					Т				
		DESCRIPTION 7" ROUND BOXES	TURF AREAS (GREEN) VB-7RND	SHRUB AREAS (BLACK) VB-7RNDBK								

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7 STAR ISLAND DR

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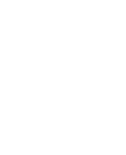
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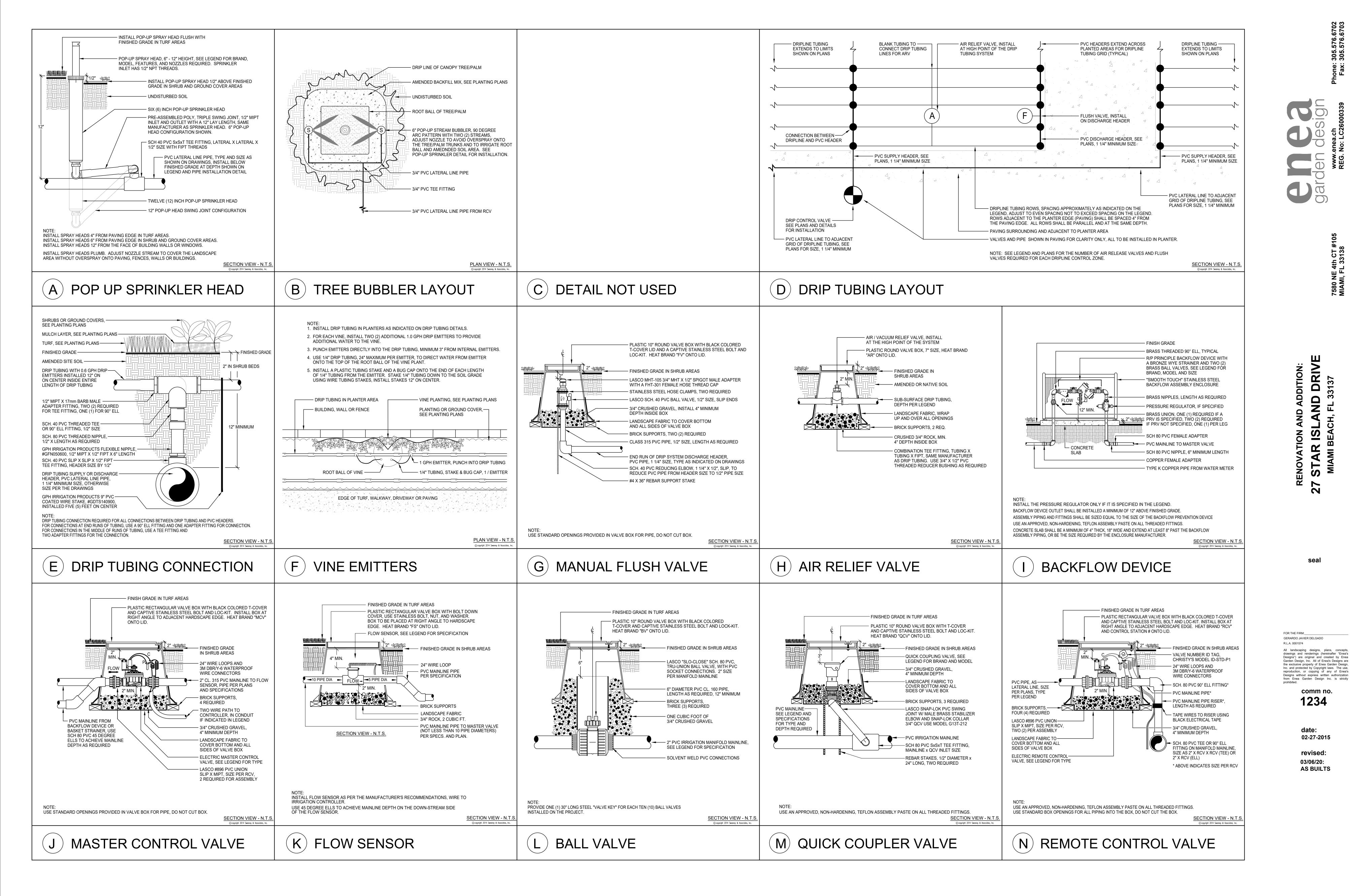
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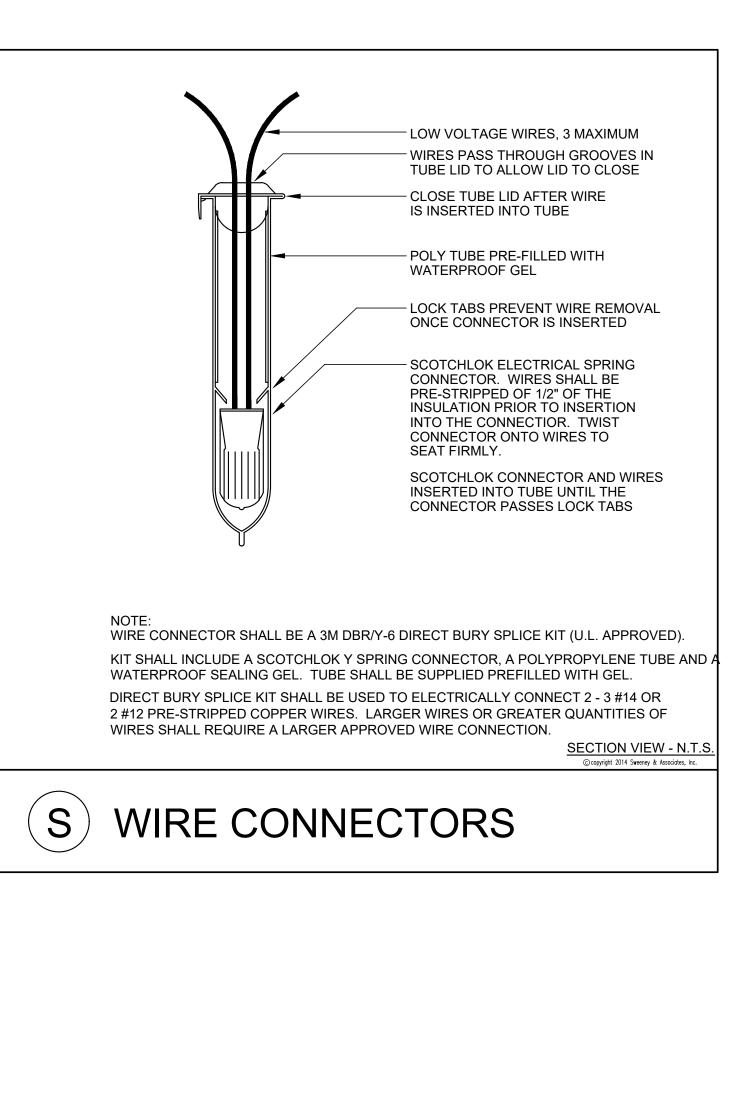
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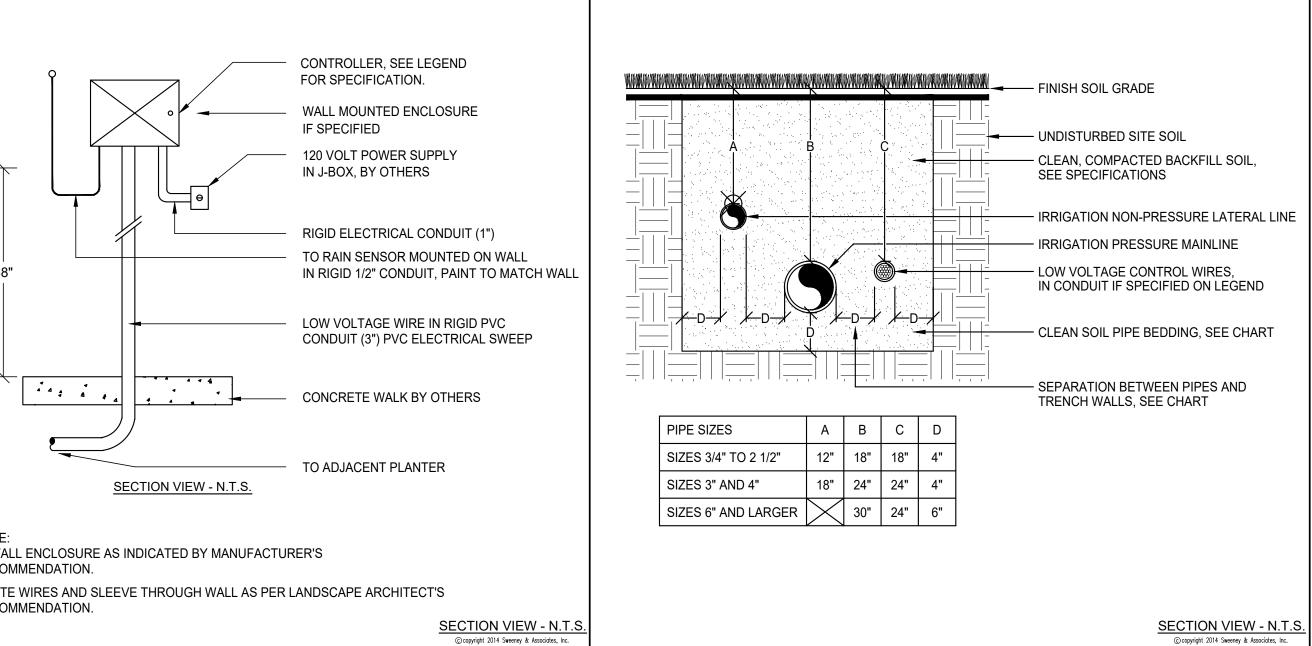
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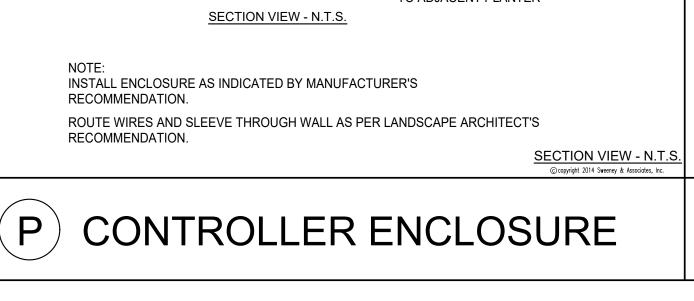




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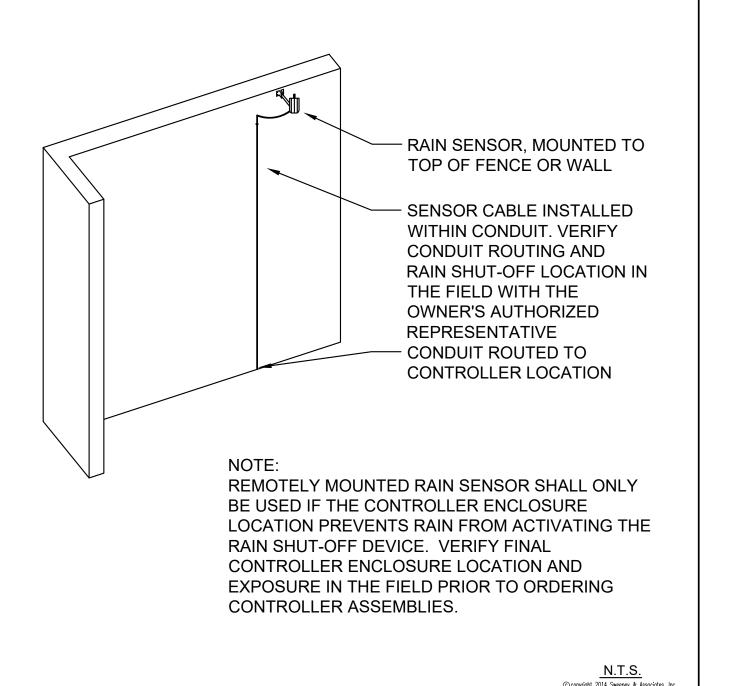








* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"



ALL SIZES UNDER PEDESTRIAN PAVING | 12" | 24" | 24" | 4"

ALL SIZES UNDER VEHICULAR PAVING | 24" | 36" | 36" | 6

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

(R) SLEEVE INSTALLATION

SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN

USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

PAVING, SEE SITE PLANS

UNDISTURBED SITE SOIL

SAND BACKFILL COMPACTED TO EQUAL DENSITY OF EXISTING SOIL

- IRRIGATION MAINLINE IN SLEEVE

LOW VOLTAGE CONTROL WIRES, OR CONDUIT, IN SLEEVE

- IRRIGATION LATERAL LINE IN SLEEVE

CLEAN SOIL PIPE BEDDING, SEE CHART

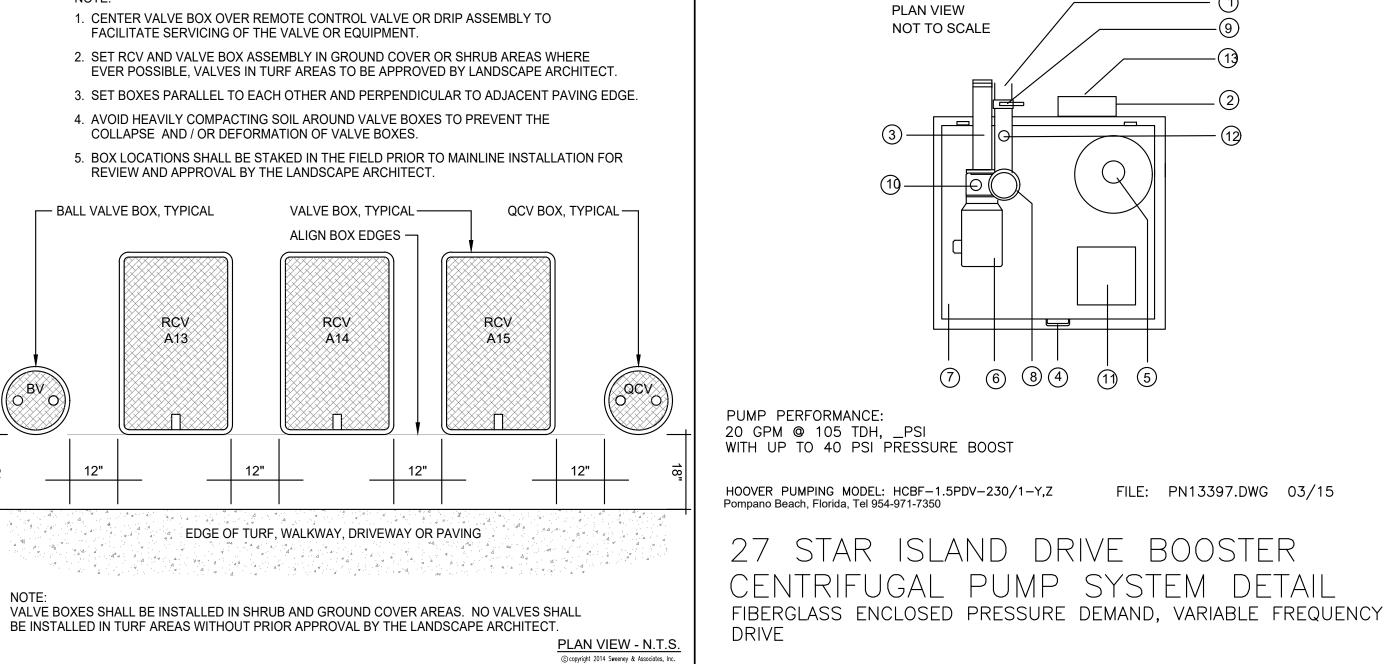
SECTION VIEW - N.T.S

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SEPARATION BETWEEN PIPES AND

TRENCH WALLS, SEE CHART

OR PAVING BASE MATERIAL



- FINISHED GRADE IN TURF AREAS

USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

VALVE BOX LAYOUT

USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

AS LATERAL

PLANS, TYPE

PER LEGEND

BRICK SUPPORTS. —

LASCO #896 PVC UNION ———

BOTTOM AND SIDES OF VALVE BOX

(O) DRIP RCV

ELECTRIC REMOTE CONTROL-

VALVE, SEE LEGEND FOR TYPE

SLIP X MIPT, SIZE PER RCV,

TWO (2) PER ASSEMBLY

FOUR (4) REQUIRED

LINE, SIZE PER

"RCV" AND CONTROL STATION # ONTO LID.

INLINE, PRE-SET PRESSURE REGULATOR, SIZE PER RCV

— PLASTIC RECTANGULAR 'JUMBO' VALVE BOX WITH BLACK COLORED

T-COVER AND CAPTIVE STAINLESS STEEL BOLT AND LOC-KIT. INSTALL

BOX AT RIGHT ANGLE TO ADJACENT HARDSCAPE EDGE. HEAT BRAND

FINISHED GRADE IN SHRUB AREAS

- VALVE NUMBER ID TAG,

— PVC MAINLINE PIPE*

CHRISTY'S MODEL ID-STD-P1

24" WIRE LOOPS AND

3M DBR/Y-6 WATERPROOF WIRE CONNECTORS

BLACK ELECTRICAL TAPE

SCH. 80 PVC TEE OR 90° ELL

FITTING ON MANIFOLD MAINLINE

SIZE AS 2" X RCV X RCV (TEE) OR

* ABOVE INDICATES SIZE PER RCV

SECTION VIEW - N.T.S

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PVC MAINLINE PIPE RISER*,

2" X RCV (ELL)

LENGTH AS REQUIRED

- 3/4" CRUSHED GRAVEL 4" MINIMUM DEPTH

- SCH. 80 PVC 90° ELL FITTING*



FILE: PN13397.DWG 03/15

