## DRB FINAL SUBMITTAL

# OCTOBER 11, 2021

27 STAR ISLAND

## 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

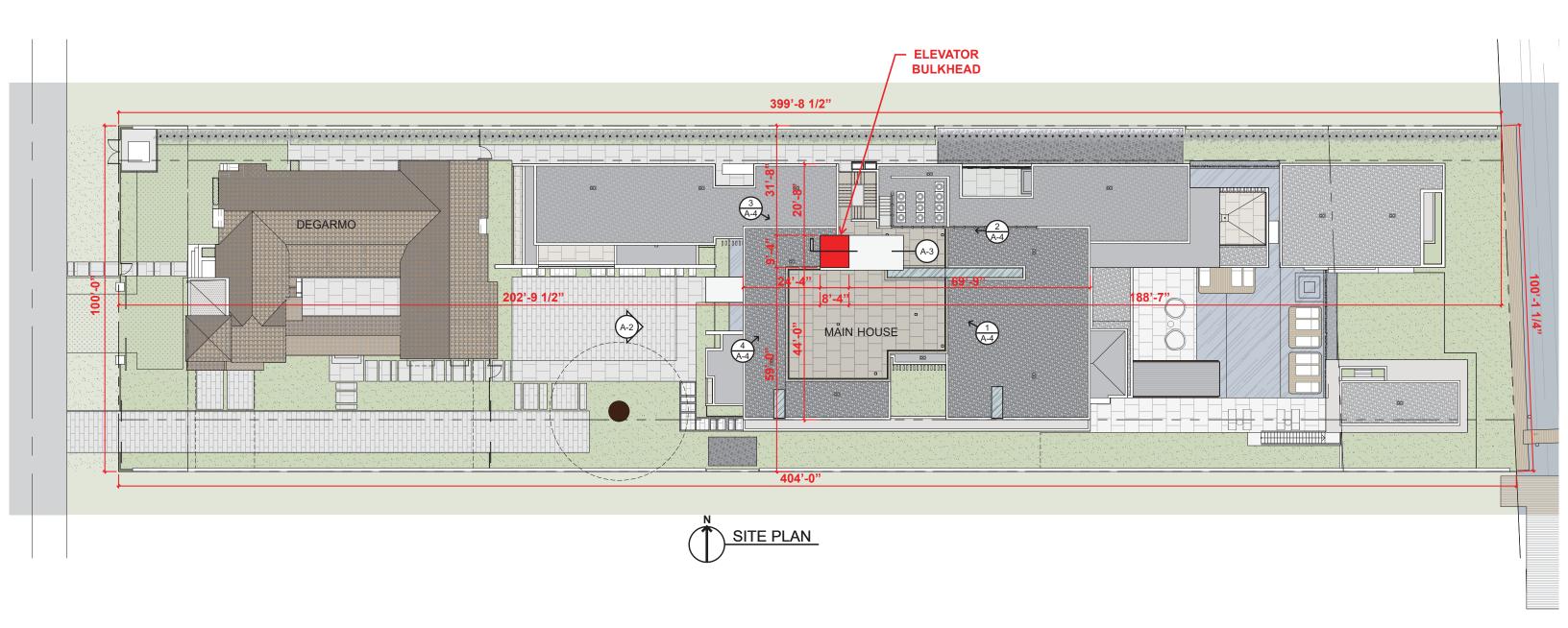
Request for a variance from DRB, to allow an elevator bulkhead to exceed the maximum 10' height above roof level, per Sec. 142-105 (b)(7)f, by 3'-0".

NOTE REGARDING AS-BUILT DRAWINGS:

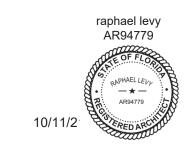
Pages and excerpts from the approved As-Built Permit drawings, including landscape drawings, are for reference only and not part of the scope of work proposed in this application

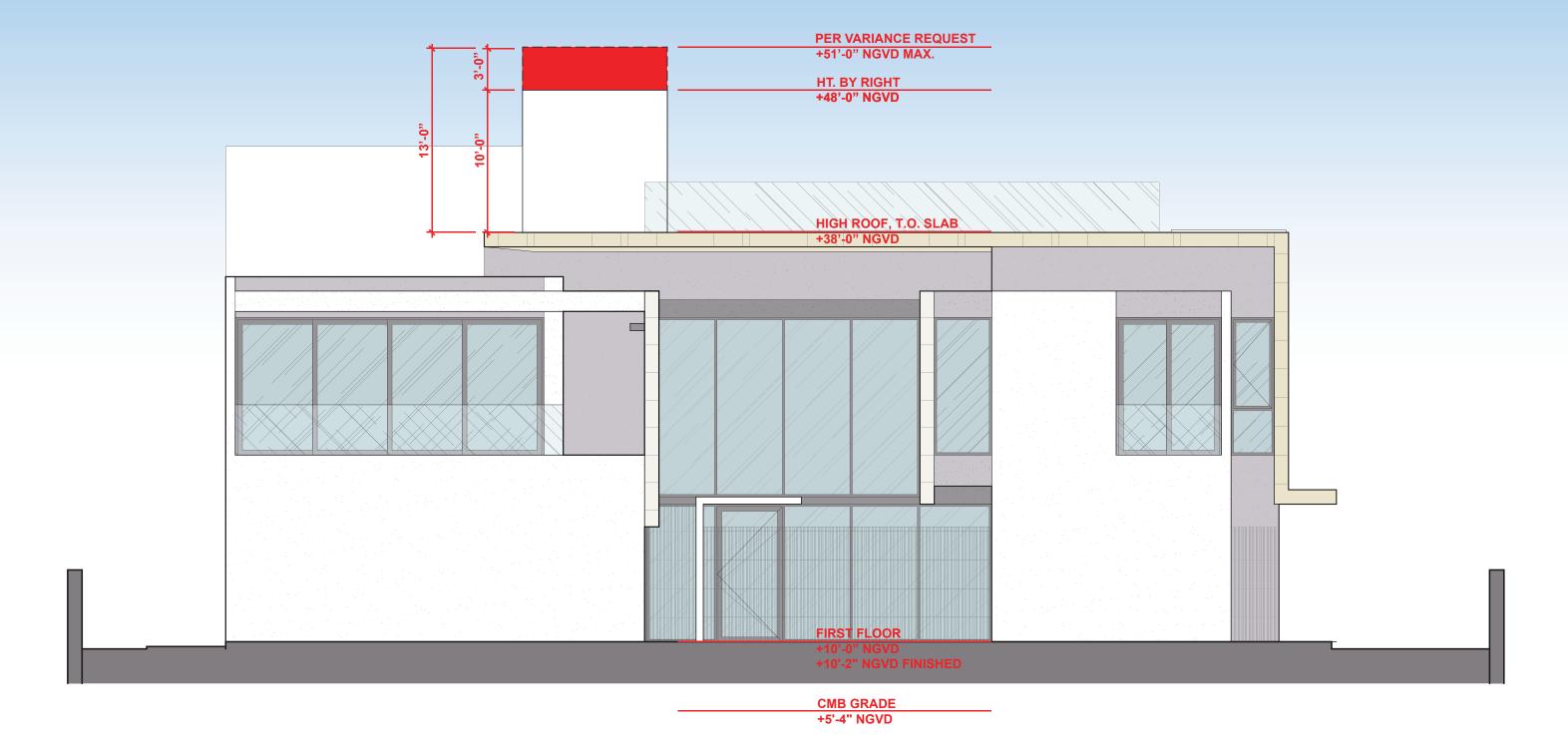








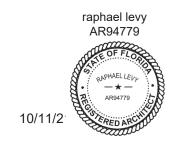


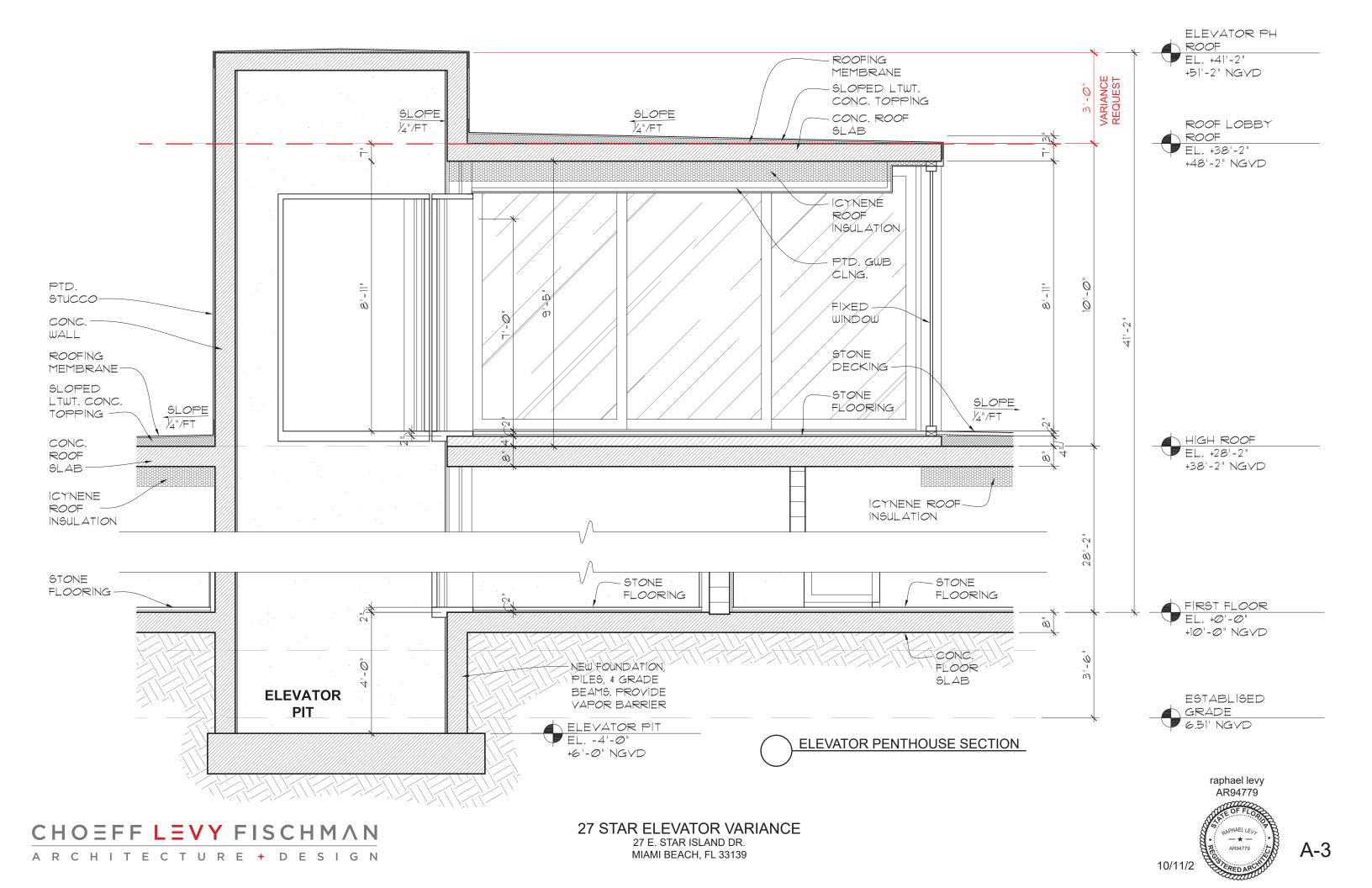






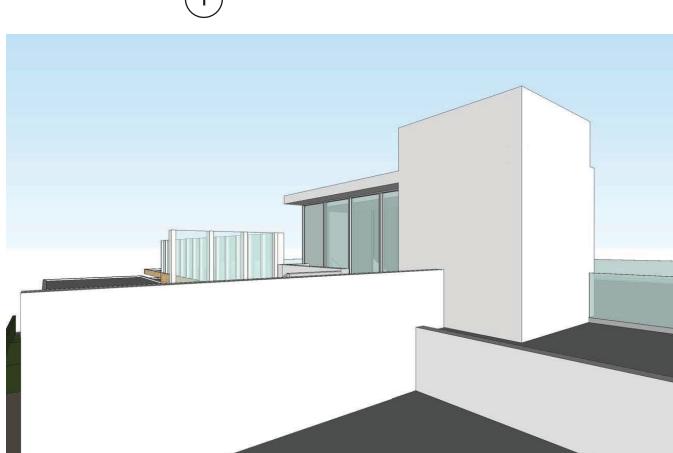




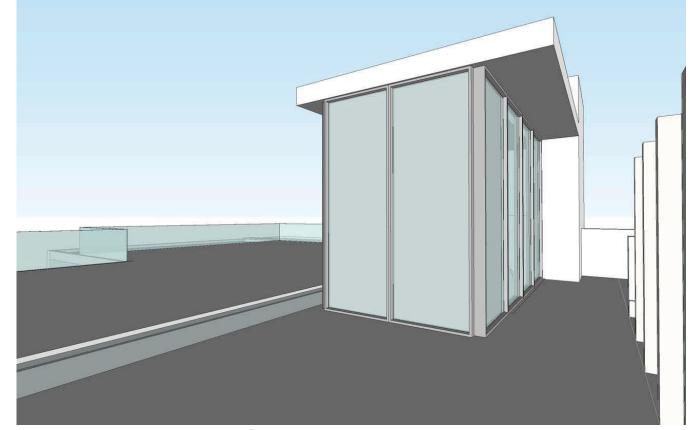




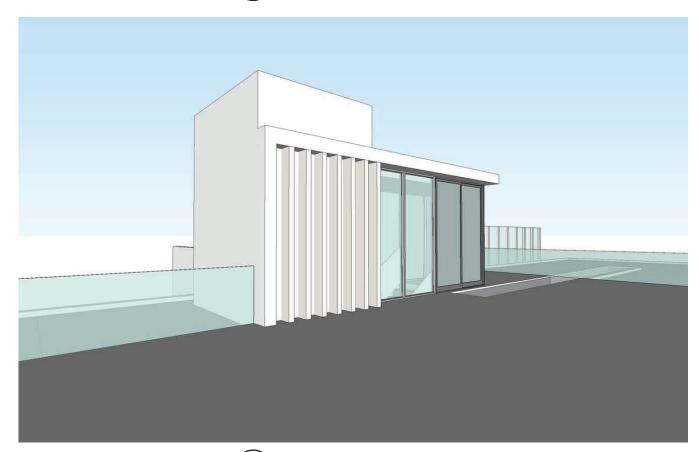
1) VIEW FROM SOUTHEAST



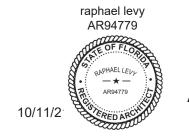
(3) VIEW FROM NORTHWEST



2 VIEW FROM NORTHEAST

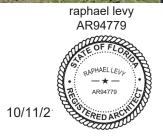


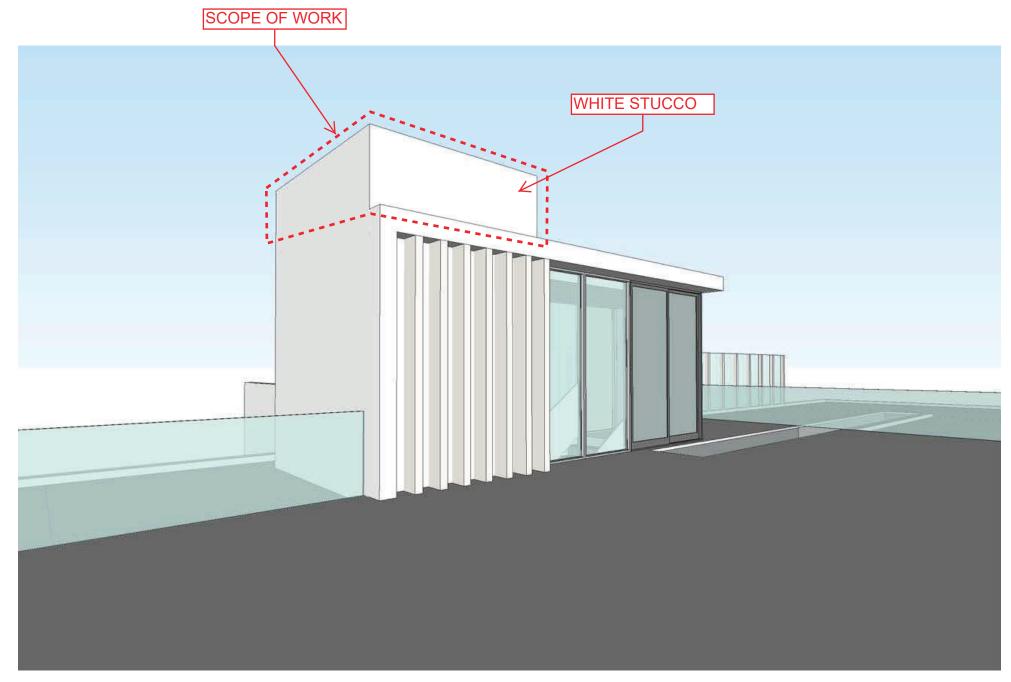
4 VIEW FROM SOUTHWEST





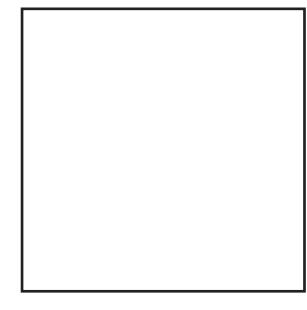






1) <u>VIEW FROM SOUTHWEST</u>

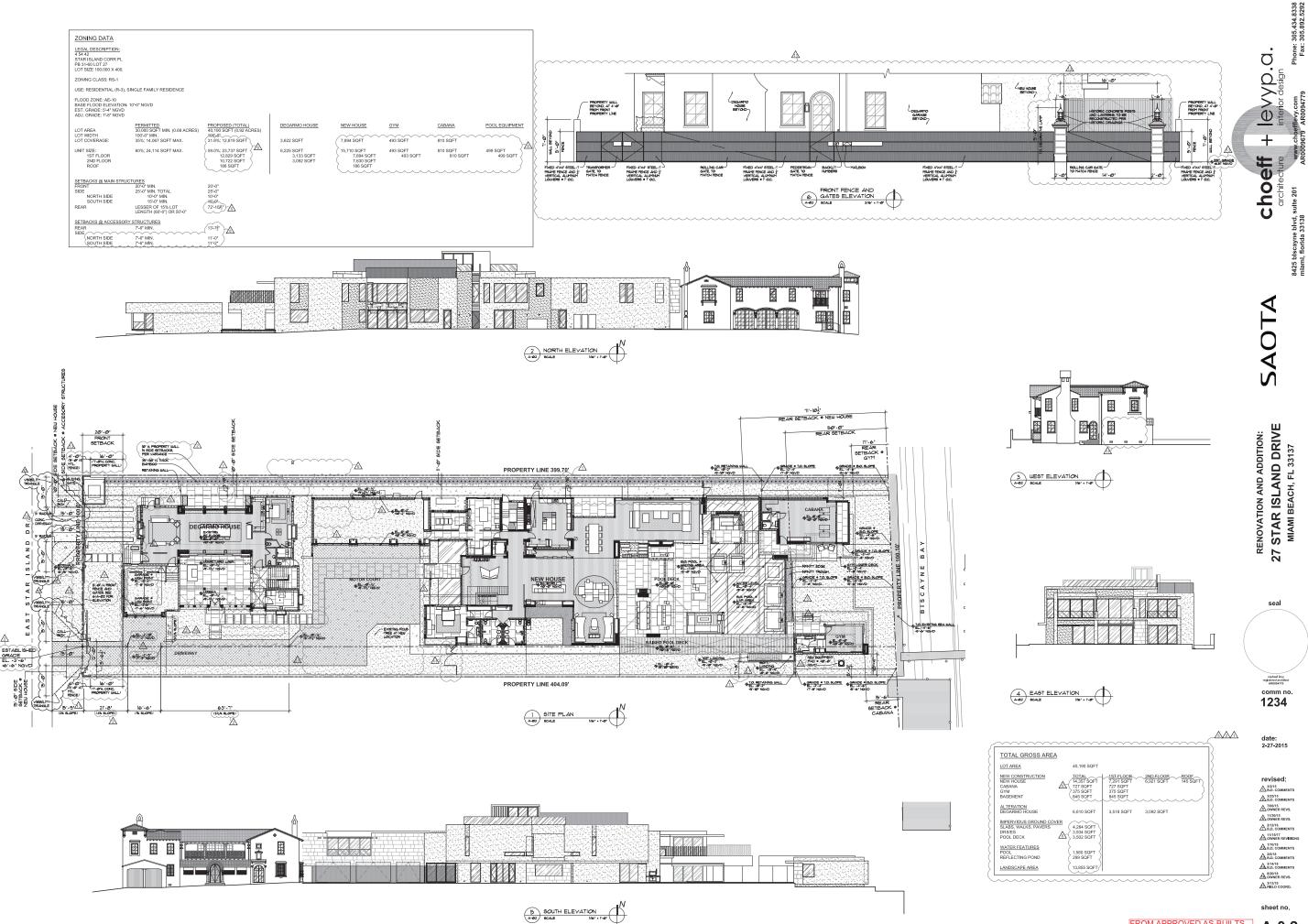
## MATERIAL BOARD



WHITE STUCCO (TO MATCH EXISTING)

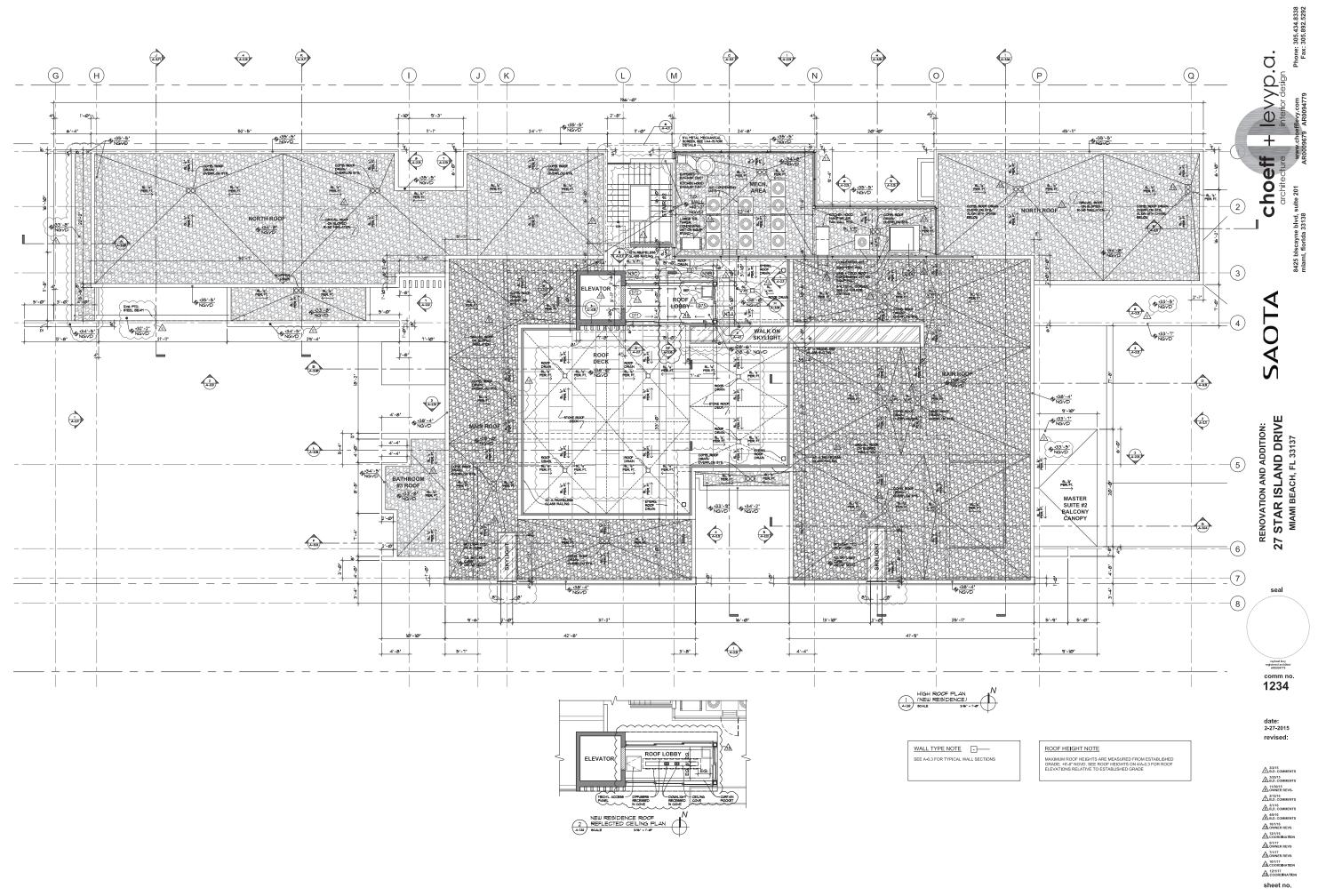


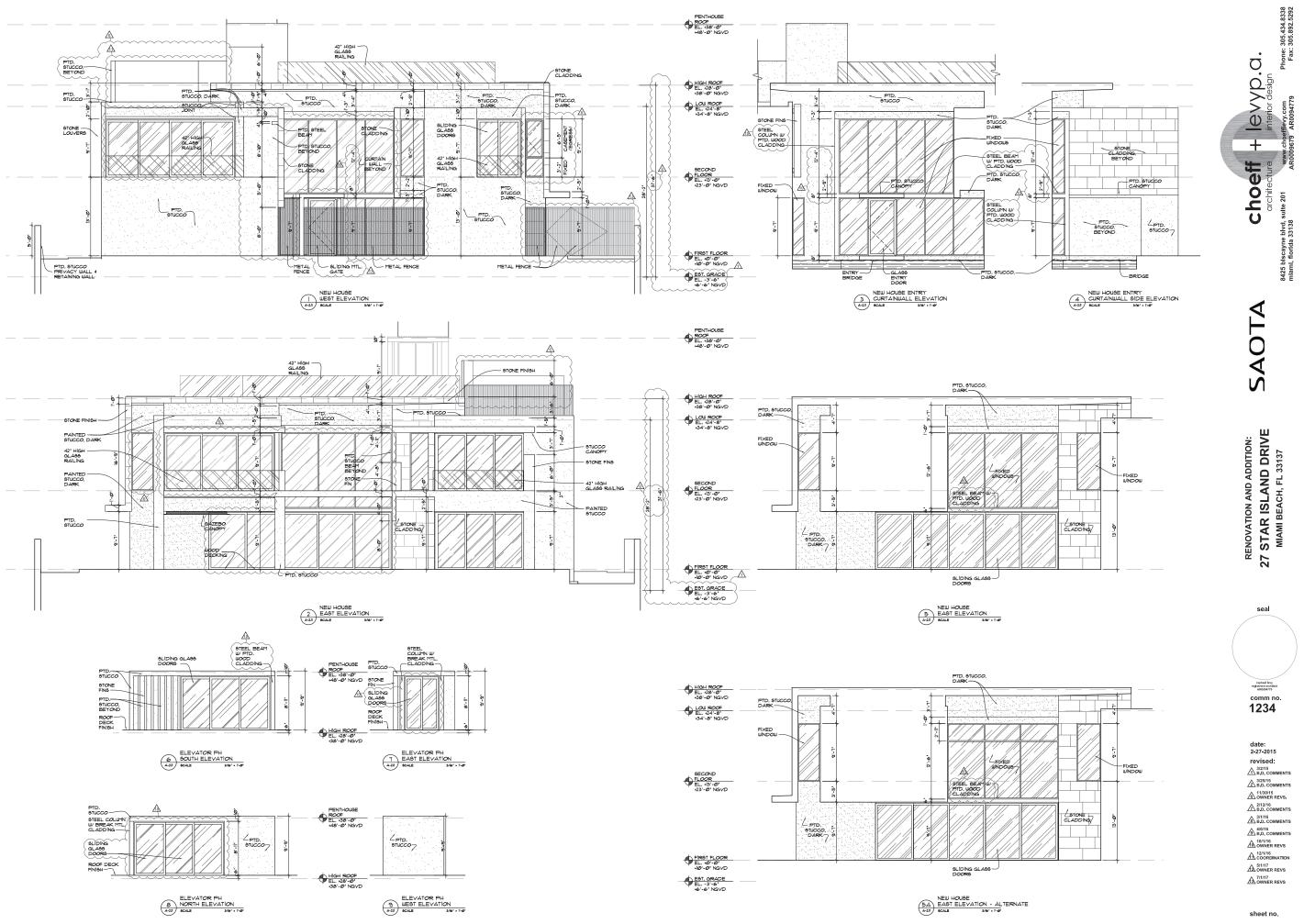




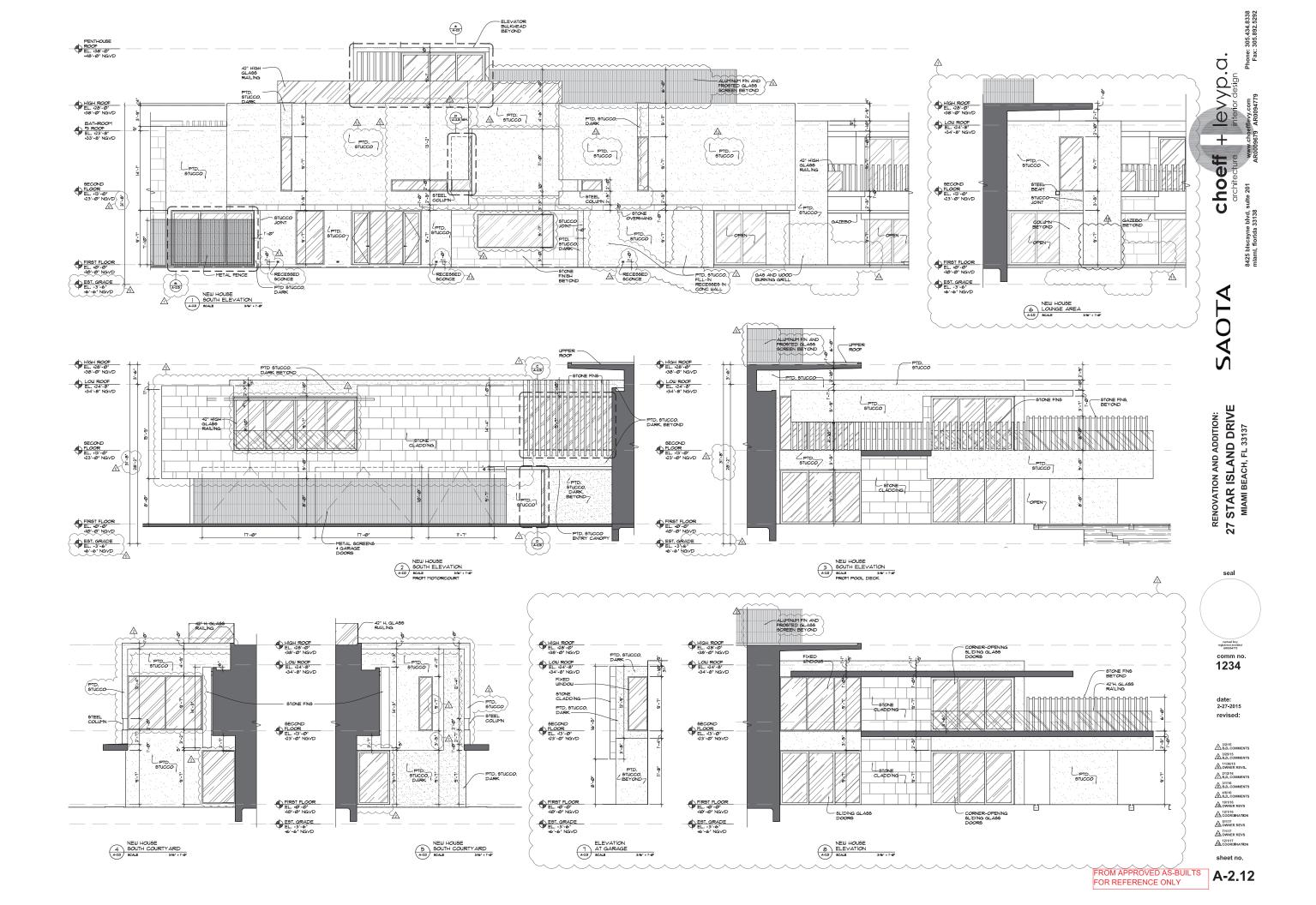
FROM APPROVED AS-BUILTS
FOR REFERENCE ONLY

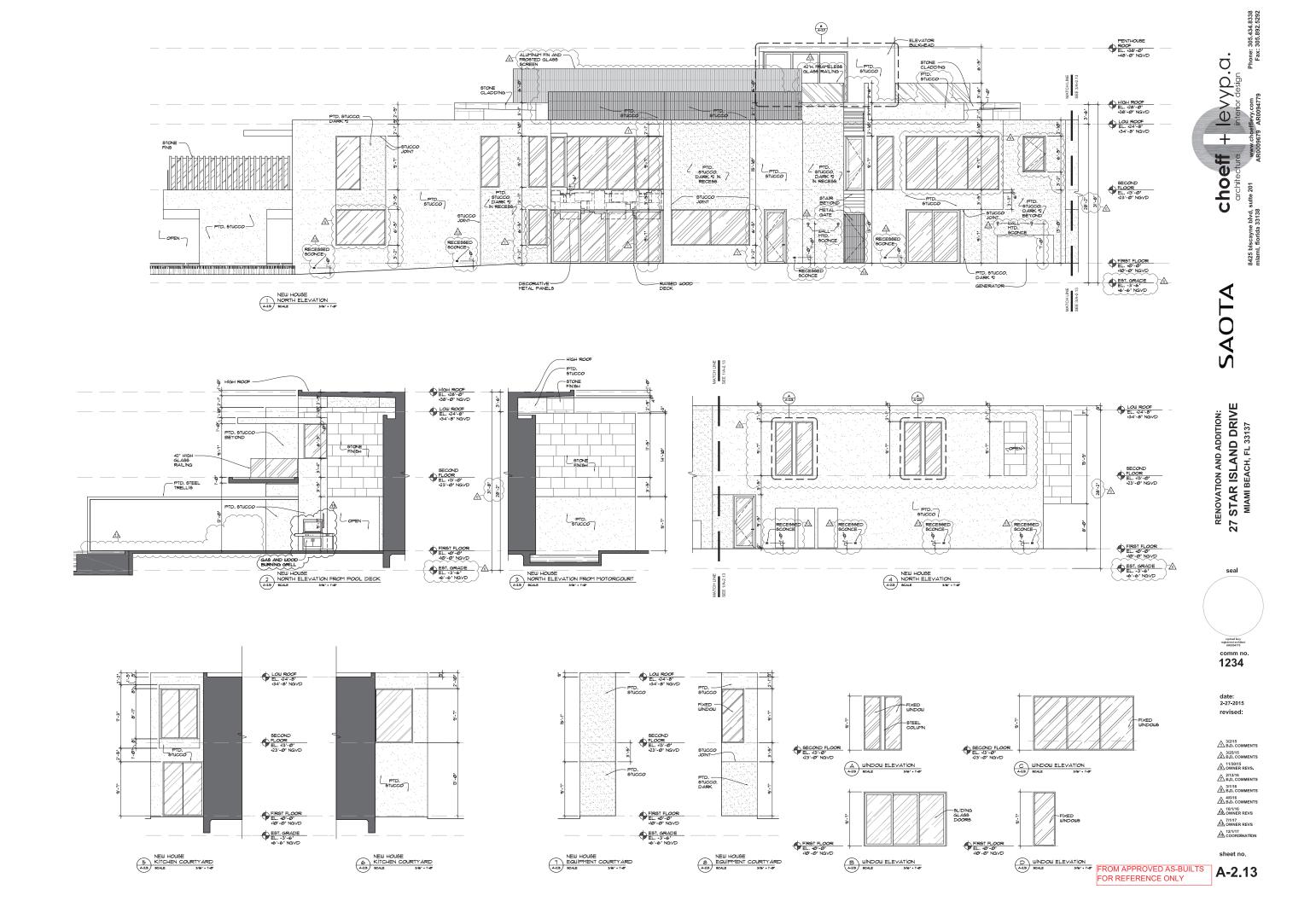
A-0.2





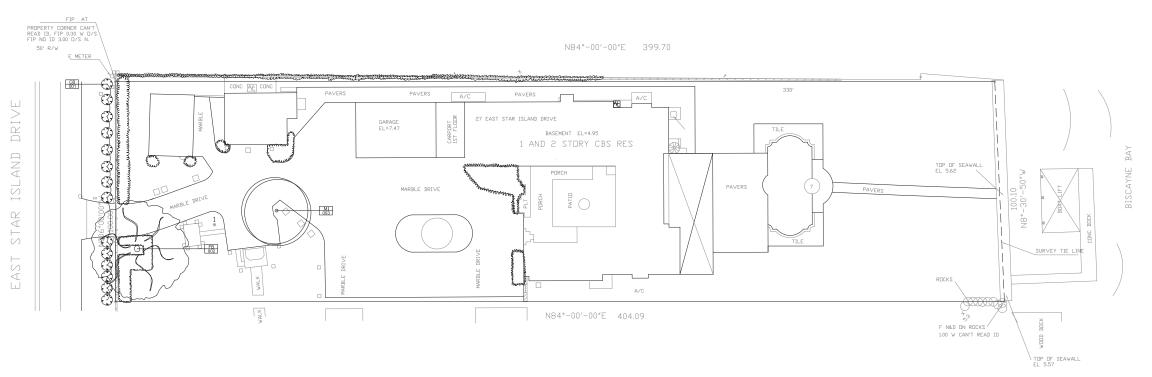
FROM APPROVED AS-BUILTS FOR REFERENCE ONLY A-2.11





comm no. 1234

garden design www.enea.ch REG. NO: LC26000339



SCALE: 1/16" = 1'-0

#### PLANT SYMBOL LEGEND

FICUS BENGHALENSIS

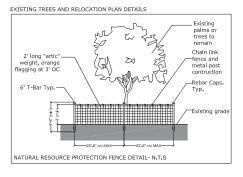
MAGNIFERA INDICA

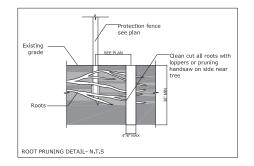
CALOPHYLLUM BRASILIENSE

#### DISPOSITION TAG LEGEND

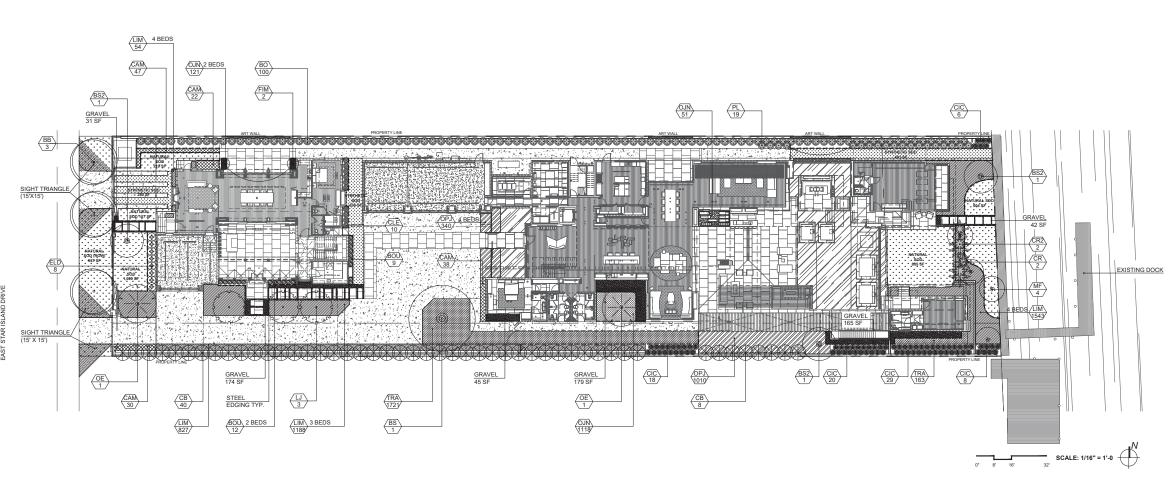
EXISTING TREE TO BE REMOVED

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





|                                  | Tree trunk  "Continue at even 2' radius from center of tree, Proceed 2' past CRZ (Critical Root Zone), Maintain 3' OC around circumferance  8' radius  12' radius  4' radius  Inject XL-Injecto feed and mycorrhizae at locations shown |
|----------------------------------|---|
| FERTILIZATION DETAIL FOR PRESERV | ED TREES- N.T.S   |



| SYM  | QTY  | SCIENTIFIC NAME  | COMMON NAME  | MINIMUM SPECIFICATIONS                            | NATIVE   | NOTES   | Building Type: Single Family Home  |
|--|--|--|--|---|----------|---|--|
| =\//0  |  |  | O MINOR TANK   | minimon of Edition Total                          | 14741142 |   | Lot Area: 40,190 SF Acres: 0.92  |
| EXIS   | ING IR   | REES TO BE RELOCATED   |  |   |          |   | Landscape requirements within  |
|  |  |  |  |   |          |   | property   |
| EXIST  | ING SH   | RUBS TO BE RELOCATED   |  |   |          |   | Tree Requirement   |
|  |  |  |  |   | _        |   | Not including Street Trees   |
| EVIET  | ING AC   | CENTS TO BE RELOCATED  | 1  |   |          |   | Balance Bartha Consultance 4 - 2.4   |
| LAIO   | ING AC   | CENTS TO BE RELOCATED  | ,<br>  |   | 1        |   | Palm substitution allowed = 3:1 30% allowed substitution of tree requirement = 1 |
|  |  |  |  |   |          |   | Street Trees   |
| ROP  | OSED   | TREES  |  |   |          |   | (1) per every 30ft of frontage. Total Frontage = 82'                             |
| 3B   | 3  | Bucida buceras   | Black Olive 'Shady Lady'   | FG; 24' HT; 20' SP; 8" DBH                        | N        | SPECIMEN  | Required Street trees = 82/30= 2.7   |
| BS   | 1  | Bursera simaruba   | Gumbo Limbo  | FG; 30' HT; 25' SP                                | Y        | COLLECTED CHARACTER SPECIMEN                                    | (10) Shrubs per Required Tree = 30   |
| 3S2  | 3  | Bursera simaruba   | Gumbo Limbo  | FG; 20' HT; 18' SP                                | Y        | COLLECTED CHARACTER SPECIMEN                                    | (3 trees x 10 shrubs)  |
| В  | 48   | Calophyllum brasiliense  | Brazilian Beautyleaf   | 45G; 14' HT; 7' SP                                | N        |   | Not including Street Trees   |
| DE   | 2  | Olea europaea 'Manzanillo'   | European Olive   | FG; 8'-9' CLEAR TRUNK; MULTI-TRUNK                | N        | COLLECTED CHARACTER SPECIMEN                                    | 30% of Required Trees must be native   |
| J  | 3  | Ligustrum japonicum  | Japanese Privet  | FG; 15' HT, 12' SP, 6" DBH                        | N        | SPECIMEN  | Required Trees = 3 Total native trees = 1; 1/3 = 33%                             |
| ΛF   | 4  | Myrcianthes frangrans  | Simpson's Stopper  | FG;14' HT, 10' SP; MULTI-TRUNK                    | Y        | SPECIMEN  | Not Including Street Trees   |
| L  | 19   | Polyalthia longifolia  | Mast Tree  | 45G; 12'-13' HT                                   | N        | FULL TO BASE  |  |
| NOTE:  | PROVIDI  | E ROOT BARRIERS AROUND GUME  | BO LIMBOS AND SHADY LADIE  | S   |          |   | 30% of Provided Shrubs must be native  |
|  |  |  |  |   |          |   | Total shrubs =228 Total required native shrubs =68; 81/200                       |
| PROP   | OSED   | SHRUBS   |  |   |          |   |  |
| MAC  | 137  | Carissa macrocarpa   | Natal Plum 'Emerald Blanket'   | 3G; 20" HT; 18" O.C                               | N        | FULL TO BASE  | Lawn Coverage Not including ROW  |
| CIC  | 81   | Chrysobalanus icaco  | Cocoplum   | 7G; 3' HT; 3' SP; 30" O.C; GREEN                  | Y        | FULL TO BASE  | 50% of Net Lot Area, Net lot area = 40,190 40,190/2= 20,0                        |
| LD   | 8  | Elaeocarpus decipiens  | Japanese Blueberry   | 25G; 6' HT; MULTI-TRUNK                           | N        | FULL TO BASE  |  |
| IM   | 2  | Ficus microcarpa 'Green Island'  | Ficus Green Island   | 25G; 5-6' HT; MULTI-TRUNK                         | N        | CHARACTER, FULL TO BASE   |  |
| PROP   | OSED   | GROUNDCOVERS   |  |   |          |   | _  |
|  |  | Liriope muscari  | LilyTurf   | 3G; 8" HT; 10" O.C.                               | N        | FULL: DENSE PLANTING AT TIME OF COMPLETION                      | <del>-</del>   |
| IM   |  | Ophiopogon japonicus   | Mondo Grass  | 1G; 6" HT; 10" O.C                                | N        | FULL: DENSE PLANTING AT TIME OF COMPLETION                      |  |
|  |  | Ophiopogon japonicus 'nana'  | Dwarf Mondo Grass  | 1G; 6" O.C.                                       | N        | FULL: DENSE PLANTING AT TIME OF COMPLETION                      |  |
| OPJ  | 1,290  |  | Asiatic Jasmine  | 1G; 6" HT; 10" O.C.                               | N        | FULL; DENSE PLANTING AT TIME OF COMPLETION                      |  |
| DPJ<br>NLC   |  | Trachelospermum asiaticum  |  |   |          |   |  |
| OPJ<br>OJN<br>TRA  | 1,884  |  | / totatio datinino   |   |          |   |  |
| OPJ<br>OJN<br>IRA<br>PROP                                    | 1,884<br>OSED  | ACCENTS  |  |   |          |   |  |
| DPJ<br>DJN<br>IRA<br>PROP                                    | 1,884<br>OSED 1  | ACCENTS<br> Bambusa oldhamii   | Giant Timber Bamboo  | 65G; 35'-40' HT; MULTI-SHOOT                      | N        | FULL TO BASE  |  |
| OPJ OJN TRA PROP BO CR                                       | 1,884<br>POSED 1   | ACCENTS  Bambusa oldhamii Cycas revoluta   | Giant Timber Bamboo<br>King Sago Palm  | FG; SINGLE TRUNK                                  | N        | SPECIMEN  |  |
| DPJ<br>DJN<br>IRA<br>PROP<br>BO<br>CR                        | 1,884<br>OSED 1  | ACCENTS<br> Bambusa oldhamii   | Giant Timber Bamboo  |   |          |   |  |
| OPJ<br>OJN<br>TRA<br>PROP<br>BO<br>CR<br>CR2                 | 1,884<br>POSED 1<br>100<br>2<br>2                        | ACCENTS  Bambusa oldhamii  Cycas revoluta  Cycas revoluta  | Giant Timber Bamboo<br>King Sago Palm  | FG; SINGLE TRUNK                                  | N        | SPECIMEN  |  |
| PROP   | 1,884 POSED 1 100 2 2 POSED 1                            | ACCENTS  Bambusa oldhamii  Cycas revoluta  Cycas revoluta  VINES   | Giant Timber Bamboo<br>King Sago Palm<br>King Sago Palm  | FG; SINGLE TRUNK FG; DOUBLE TRUNK                 | N<br>N   | SPECIMEN<br>SPECIMEN  |  |
| PROP<br>DJN<br>TRA<br>PROP<br>BO<br>DR<br>DR2<br>PROP<br>DLE | 1,884<br>POSED 1<br>100<br>2<br>2                        | ACCENTS  Bambusa oldhamii  Cycas revoluta  Cycas revoluta  | Giant Timber Bamboo<br>King Sago Palm  | FG; SINGLE TRUNK                                  | N        | SPECIMEN  |  |
| PROP<br>DJN<br>TRA<br>PROP<br>BO<br>DR<br>DR2<br>PROP<br>DLE | 1,884 POSED 2 100 2 2 POSED 1                            | ACCENTS  Bambusa oldhamii  Oyaas revoluta  Oycas revoluta  VINES  Clerodendrum thomsoniae  | Giant Timber Bamboo King Sago Palm King Sago Palm White Bleeding Heart Vine                          | FG; SINGLE TRUNK FG; DOUBLE TRUNK 25G; 6' TRELLIS | N<br>N   | SPECIMEN SPECIMEN FULL, TRELLIS TRAINED                         |  |
| OPJ OJN TRA  PROP BO CR CR2  PROP CLE BOU                    | 1,884 POSED 2 100 2 2 POSED 1                            | ACCENTS  Bambusa oldhamii Cycas revoluta  Cycas revoluta  VINES  Clerodendrum thomsoniae Bougainvillea 'Ms. Alice'                   | Giant Timber Bamboo King Sago Palm King Sago Palm White Bleeding Heart Vine                          | FG; SINGLE TRUNK FG; DOUBLE TRUNK 25G; 6' TRELLIS | N<br>N   | SPECIMEN SPECIMEN FULL, TRELLIS TRAINED                         |  |
| PROP   | 1,884 POSED 1 100 2 2 POSED 1 10 21                      | ACCENTS  Bambusa oldhamii Cycas revoluta  Cycas revoluta  VINES  Clerodendrum thomsoniae Bougainvillea 'Ms. Alice'                   | Giant Timber Bamboo King Sago Palm King Sago Palm White Bleeding Heart Vine                          | FG; SINGLE TRUNK FG; DOUBLE TRUNK 25G; 6' TRELLIS | N<br>N   | SPECIMEN SPECIMEN FULL, TRELLIS TRAINED                         |  |
| OPJ OJN TRA  PROP BO CR CR2  PROP CLE BOU                    | 1,884 POSED 1 100 2 2 POSED 1 100 21 20 21 POSED 3 3,567 | ACCENTS  Bambusa oldhamii  Cycas revoluta  Cycas revoluta  Cycas revoluta  VINES  Clerodendrum thomsoniae  Bougainvillea 'Ms. Alice' | Giant Timber Bamboo King Sago Palm King Sago Palm White Bleeding Heart Vine Bougainvillea "Ms.Alice" | FG; SINGLE TRUNK FG; DOUBLE TRUNK 25G; 6' TRELLIS | N<br>N   | SPECIMEN SPECIMEN  FULL, TRELLIS TRAINED  FULL, TRELLIS TRAINED |  |

| . 10  | TING ST | RUBS TO BE RELOCATED            |                              | Î                                  | T    | Ť  |
|-------|---------|---------------------------------|------------------------------|------------------------------------|------|--|
|       | _       |                                 |                              |                                    | _    |  |
| EXIS  | TING AC | CENTS TO BE RELOCATED           |                              |                                    |      |  |
|       |         |                                 |                              |                                    |      |  |
|       |         | -                               |                              |                                    |      | -  |
| PROF  | POSED ' | TREES                           |                              |                                    |      |  |
| BB    | 3       | Bucida buceras                  | Black Olive 'Shady Lady'     | FG; 24' HT; 20' SP; 8" DBH         | N    | SPECIMEN                                   |
| BS    | 1       | Bursera simaruba                | Gumbo Limbo                  | FG; 30' HT; 25' SP                 | Y    | COLLECTED CHARACTER SPECIMEN               |
| BS2   | 3       | Bursera simaruba                | Gumbo Limbo                  | FG; 20' HT; 18' SP                 | Y    | COLLECTED CHARACTER SPECIMEN               |
| CB    | 48      | Calophyllum brasiliense         | Brazilian Beautyleaf         | 45G; 14' HT; 7' SP                 | N    |  |
| 0E    | 2       | Olea europaea 'Manzanillo'      | European Olive               | FG; 8'-9' CLEAR TRUNK; MULTI-TRUNK | N    | COLLECTED CHARACTER SPECIMEN               |
| LJ    | 3       | Ligustrum japonicum             | Japanese Privet              | FG; 15' HT, 12' SP, 6" DBH         | N    | 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                               |
|       | PROVIDI | ROOT BARRIERS AROUND GUME       | RO LIMBOS AND SHADY LADIE    |                                    |      | Processor that yellow it was required to   |
| 11012 |         | E TOOT BANK WELLO AN COOKE COME | TO EINIBOO THE OTTER ETERE   | <u> </u>                           |      |  |
| DD01  | 20050   | auguno.                         |                              |                                    |      |  |
|       |         | SHRUBS                          |                              |                                    |      |  |
| CAM   | 137     | Carissa macrocarpa              | Natal Plum 'Emerald Blanket' | 3G; 20" HT; 18" O.C                | N    | FULL TO BASE                               |
| CIC   | 81      | Chrysobalanus icaco             | Cocoplum                     | 7G; 3' HT; 3' SP; 30" O.C; GREEN   | Y    | FULL TO BASE                               |
| ELD   | 8       | Elaeocarpus decipiens           | Japanese Blueberry           | 25G; 6' HT; MULTI-TRUNK            | N    | FULL TO BASE                               |
| FIM   | 2       | Ficus microcarpa 'Green Island' | Ficus Green Island           | 25G; 5-6' HT; MULTI-TRUNK          | N    | CHARACTER, FULL TO BASE                    |
|       |         |                                 |                              |                                    |      |  |
| PROF  | POSED   | GROUNDCOVERS                    |                              |                                    |      |  |
| LIM   | 3,612   | Liriope muscari                 | LilyTurf                     | 3G; 8" HT; 10" O.C.                | N    | FULL; DENSE PLANTING AT TIME OF COMPLETION |
| OPJ   | 1,350   | Ophiopogon japonicus            | Mondo Grass                  | 1G; 6" HT; 10" O.C                 | N    | FULL; DENSE PLANTING AT TIME OF COMPLETION |
| OJN   | 1,290   | Ophiopogon japonicus 'nana'     | Dwarf Mondo Grass            | 1G; 6" O.C.                        | N    | FULL; DENSE PLANTING AT TIME OF COMPLETION |
| TRA   | 1,884   | Trachelospermum asiaticum       | Asiatic Jasmine              | 1G; 6" HT; 10" O.C.                | N    | FULL; DENSE PLANTING AT TIME OF COMPLETION |
|       |         |                                 | •                            | •                                  |      |  |
| PRO   | POSED   | ACCENTS                         |                              |                                    |      |  |
| ВО    | 100     | Bambusa oldhamii                | Giant Timber Bamboo          | 65G; 35'-40' HT; MULTI-SHOOT       | N    | FULL TO BASE                               |
| CR    | 2       | Cycas revoluta                  | King Sago Palm               | FG; SINGLE TRUNK                   | N    | SPECIMEN                                   |
| CR2   | 2       | Cycas revoluta                  | King Sago Palm               | FG: DOUBLE TRUNK                   | N    | SPECIMEN                                   |
|       |         | T-X                             | 10011                        | 11                                 |      | 1  |
| PRO   | POSED   | VINES                           |                              |                                    |      |  |
| CLE   | 10      | Clerodendrum thomsoniae         | White Bleeding Heart Vine    | 25G: 6' TRELLIS                    | l N  | FULL. TRELLIS TRAINED                      |
| BOU   | 21      | Bougainvillea 'Ms. Alice'       | Bougainvillea 'Ms.Alice'     | 7G: 48" HT                         | N    | FULL. TRELLIS TRAINED                      |
| 500   | 21      | Douganvillea NS.Alice           | IDOUGAITMINEA MIS.Alice      | [70, 40 HI                         | 1 14 | FOLL, INCLUSITIVATED                       |
| DDOI  | POSED   | POD                             |                              |                                    |      |  |
|       |         |                                 | I                            |                                    |      |  |
| SOD   | 3,567   | Zoysia spp.                     | Zoysia Empire                | 1                                  | N    | ALTERNATING AND BUTTED JOINTS              |

| Code 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 property  | Required             | Provided |
| Tree Requirement Not including Street Trees   | 3                    | 80       |
| Palm substitution allowed = 3:1<br>30% allowed substitution of tree requirement = 1   | 0                    | 0        |
| Street Trees (1) per every 30th of frontage. Total Frontage = 82' Required Street trees = 82/30= 2.7                              | 3                    | 3        |
| (10) Shrubs per Required Tree = 30<br>(3 trees x 10 shrubs)<br>Not including Street Trees   | 30                   | 228      |
| 30% of Required <u>Trees</u> must be native<br>Required Trees = 3 Total native trees = 1; 1/3 = 33%<br>Not Including Street Trees | 1                    | 8        |
| 30% of Provided <u>Shrubs</u> must be native Total shrubs =228 Total required native shrubs =68; 81/200= 36%                      | 68                   | 81       |
| Lawn Coverage Not including ROW 50% of Net Lot Area, Net lot area = 40,190 40,190/2= 20,095 allowed                               | 20,095 SF<br>allowed | 2,179 SF |

| PLANTIN | IG SYMBOL LEGEND                |                             |                                     |
|---------|---------------------------------|-----------------------------|-------------------------------------|
| $\odot$ | Bucida buceras                  | Carissa macrocarpa          | Bougainvillea                       |
| •       | Bursera simaruba                | Ophiopogon japonicus        | Bambusa oldhamii                    |
|         | Calophyllum brasiliense         | Ophiopogon japonicus 'nana' | Elaeocarpus decipiens               |
| +       | Ficus microcarpa 'Green Island' | Liriope muscari             | Chrysobalanus icaco                 |
|         | Olea europaea                   | Trachelospermum asiaticum   | Cycas revoluta                      |
|         | Ligustrum japonicum             | Zoysia                      | SYIM PROPOSED PLANT                 |
| 89      | Myrcianthes fragrans            | GRASSPAVE                   | SYM RELOCATED PLANT                 |
| (+)     | Polyalthia longifolia           | GRAVEL                      | METAL EDGING,<br>SEE DETAIL ON L-30 |

305.576.6702 305.576.6703

Phone: 3

RENOVATION AND ADDITION:
27 STAR ISLAND DRIVE
MIAMI BEACH, FL 33137

comm no. 1234

date: 02-27-2015

revised:

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 S8 Trellis System Note: 4" clearance between wall and cable, cables 12" O.C Source: Jakob -USA (561) 330-6502

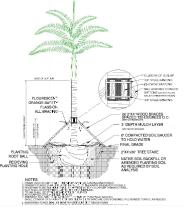
305.576.6702 305.576.6703

Phone:

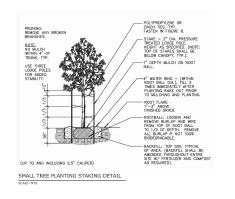
comm no. 1234

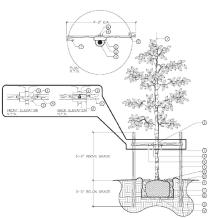
date: 02-27-2015

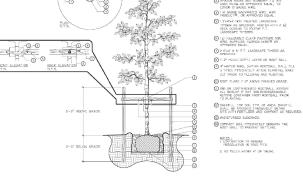
revised:



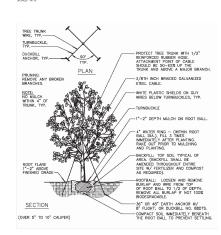
### PALM TREE STAKING PLANTING DETAIL SCALE: NTS



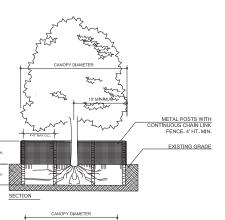


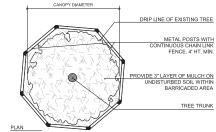


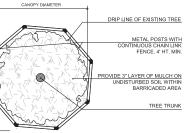




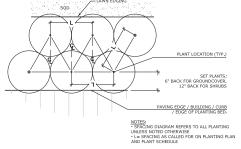
LARGE TREE PLANTING STAKING DETAIL SCALE: NTS







TREE / PALM PROTECTION DETAIL SCALE; NTS



ALL SOD LAID WITH ALTERNATING AND BUTTING

NOTE: PROVIDE WITH 2"-3" OF TOPSOIL PRIOR TO SOD INSTALLATION.

GRAVEL PATH OR SOD; SEE PLAN \* THICK, 4\* DEEP STEEL LANDSCAPE EDGING WITH MILL FINISH; SEE MATERIAL SCHEDULE

8" LONG #3 REBAR; MILL FINISH; STAKE AT 36" O.C. MIN.; "TO EDO MIC 1" MIN RELOW TOP

COMPACTED SUBGRADE

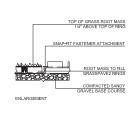
24"

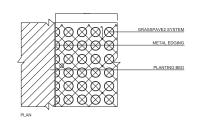
STEEL EDGING DETAIL

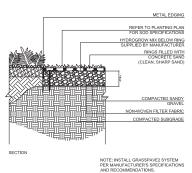
SOD DETAIL

PLANTING BED

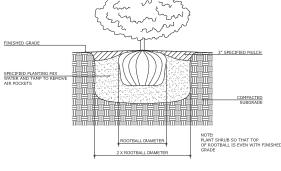
SHRUB AND GROUNDCOVER SPACING DETAIL SCALE; NTS



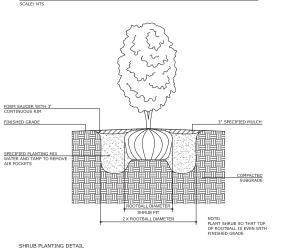




GRASSPAVE DETAIL, TYP



GROUNDCOVER PLANTING DETAIL SCALE: NTS



1234

sheet no.

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

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 to pil 30 of burlap away from root ball, and

around root ball, and pit is filled with Planting Mix to top of root ball.

surgled brace to one 12' long 2x4 vertical block over four layers of burlap. Secure blocks with two metal long past vertical block over four layers of burlap. Secure blocks with two metal long plastic surges, one 3' from the top and one 3' from the bottom of each block, Nall brace to block with our 16th alias. See planting details sheet Lo3d for additional information and

I. Contractor is responsibly to maintenance on all Landscape materials, including sod, for no less than inhely (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

GENERAL SUBMITTALS:

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

b. Electrical Fixtures - Product Data, and foundation details (Shall be included in contractor's

g. Decorative gravel - Sample

vI.Callper 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

Lin 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.

I. Verriy locations of all utilities, conduits, supply lines and cables, including but not limited to: electrical, gas (filines and tanks), water, sanitary sewer, storm water lines, cable and telephone. Property maintain and protect existing utilities.

II.Stake or mark with paint the proposed location of all trees and paims to be planted.

III. Excavate plant beds.

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 Indidental work related to planting operations, and as specified.

with smooth and even finish. Remove rocks exceeding one (1) inch diameter, sticks, debris, deleterlous material, grass and soll clods, and vegetation.

2. Excavation:

2. 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 claimeter than the root ball, and minimum of 12" deeper than vertical depth of the root ball. Test soil for quality of percolation.

24. Barricade or mark excavations to prevent hazards to mechanical equipment, vehicles, and Set trees in vertical position with the top of the root ball flush with the adjacent, finish grade.

turn down into the side of the planting pit, before placing planting mix around the root ball.

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

I. Commercial fertilizer shall be a complete formula; it shall be uniform in composition, dry and free flowing. This Fartilizer 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: Containertzed material (i.e. shrubs, vines, ground covers) shall receive a granular such as "Titlefile" or approved equal. 27. Proper Jetting in State to associate the 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 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° banks. Shush blanting sail into place with slow hose stream until air pockets are eliminated.

30. Place mulch in loose measure 2" min. laver within each watering sauce

30. Place mulch In loose measure 2" mln, layer withh each waterdang 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 ninely degrees from and connected to tree trunk, and anchored below grade with pressure treated stakes. Secure tree against movement in wind.

33. Tree Braching: For materials greater than 12" in helght, 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" will replace the grade passing through each such 2x4 brace, driven into the ground, and set flush with the top of the brace. Secure each

to block with four 10d naiss. See planning details sheet L.oud 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. Cutilivate all planting areas to a milinium 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

acceptance by the Owner.

I. Grass species, and location of field from which sod is cut.

I. Grass species, and location of held from which so tis 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.

a. Fence/gates - Sample, 2' with all members and connection

c. Furniture - Product Data

c. Furriture - Product Data
d. Landscape Materlals - Samples per documents hereIn
e. Geotextle materlals - 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 lob site until ap DAX to the initialities contacte said and on includestury or tendors into me job size or 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

t Grasspave - Product Data and Sample

s line deck fasteners and hardware. Ine products - Sample

u.Sand stabilizer - Product Data in Sample
u.Sand stabilizer - Product Data
2. Soll 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.

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, vil. 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 size, 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 bals or roots, latent defects or Injures. 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 date. j. Caulks and sealants - Product Data k. Stafn and paint - Sample I. Steel edgling - 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 Drawlings r Water features - Shop Drawings

Addiculture. Trees and shrubs shall have pronounced symmetry of foliar grown. Plants.

d. Commercial Fertilizer:

I. Commercial fertilizer shall be a complete formula, it shall be uniform in composition, dry

Tridition of the control of the cont a. This instruction shall supersede other notes regarding fertilizers on the drawings or

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

ii. 'Florimulch' free of weed retardant. Certified by the Florida Department of Agriculture

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, sol preparation, installation of trees, shrubs and ground covers, etc.)

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

12. Lay first row of sod in straight line with long dimension of pads parallel to slope contours 12. Lay first row of sod in straight line with long dimension of pads parallel to slope contours
13. Lay all rows with alternating and abuting joints.
14. Do not stretch or overlap rows
15. Roll sod, except pegaged 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 engraded 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

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 rainfal to produce a total of 2" per day.

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

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

Sounds, heatiny, vigorous, mee from plant usease, insecupess or une eggs, increases.

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

\_andscape Architect.

vi. The height and or width of trees shall be measured from the top of the root ball to the top

iii Mulch material shall be moistened at the time of application. All trees, shrubs, and ground er beds shall receive a minimum of 2" of small pine bark chips immediately afte cover beds shall receive a minimum.
planting.
b. Sod:
c. Grass species: Zoysia spp
d. American Sod Producers Association (ASAP) Grade: Nursery grown or approved. Field

i. Mulch: Pine chips

f. Not stretched, broken or torn.

11. Bealn sodding at bottom of slopes

a. Uniformly mowed height when harvested.

system, soll preparation, installation of trees, s v. Installation: 9. Transplant sod within 48 hours after harvesting

Agdiculture. Trees and shrubs shall have pronounced symmetry of follar crown. Plants judged to be not in accordance with these standards will be rejected, and shall be Immediately removed from the site of the work.

All quantilles indicated on the plant list are Intended as a guide for the bidders and does 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

ements for this project.

i Verify locations of all utilities conduits supply lines and cables including but not limited to

i. Finish sub-grade: upon acceptance of rough grading elevations, establish fine sub-grade

FROM APPROVED AS-BUILTS L.302 FOR REFERENCE ONLY PLANTING NOTES

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 Indigation system.

b. Shop Drawings: Submit shop drawings for landscape Infigation system including plan layout and details illustrating location and type of heads, valves, plping drcuits, controls,

GENERAL LANDSCAPE NOTES:

IRRIGATION

1. Description of work:

a. Extent of Irrigation system is shown on drawings.

2. Quality Assurance:

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:

b. Manufacturer qualifications: Provide irrigation system as a complete unit produced by a

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 riping. Drip fines shall be installed over soil and under mutch, 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

I. General: Notity Landscape Architect in writing when testing will be conducted. Conduct tests in presence of Landscape architect is presence of Landscape architect. II.Hydrostatic test: Test water plping and valves before backfilling trenches, to a hydrostatic pressure of not less than 100 psl. Plping 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.

d. Record Drawlings
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 spook couples, aim ingalant and unange piping, every, shall be shown for pinis. Locations should be shown by the triangular system of measurements from easily identified bermanent 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

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.

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

2. Transplanting/ Relocating Trees a. General: Transplanting shall consist of on-site transplanting of existing plant materials

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 maintenance period.

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 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

N. 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

termize to prointee tool grown and use root summation and state by ordering approved equal.

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

vl.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

a. General samples of materials as listed below shall be submitted for approval, on the site 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. Mutch - One (1) Cubic foot
II.Root Stimulator - One (1) container

5. The Landscape Architect reserves the right to reject planting mix utilized that fails to meet the

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

3. Materials

iii. Fertilizer - One (1) Container iv. Topsoil - One (1) Cubic Yard v. Plants - One (1) of each variety

vI.Planting mix - One (1) Cubic Yard

help harden off new leaves.

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 citled herein. All sizes shown for plant material on the plan are to be considered as minimums.

b. Preparation

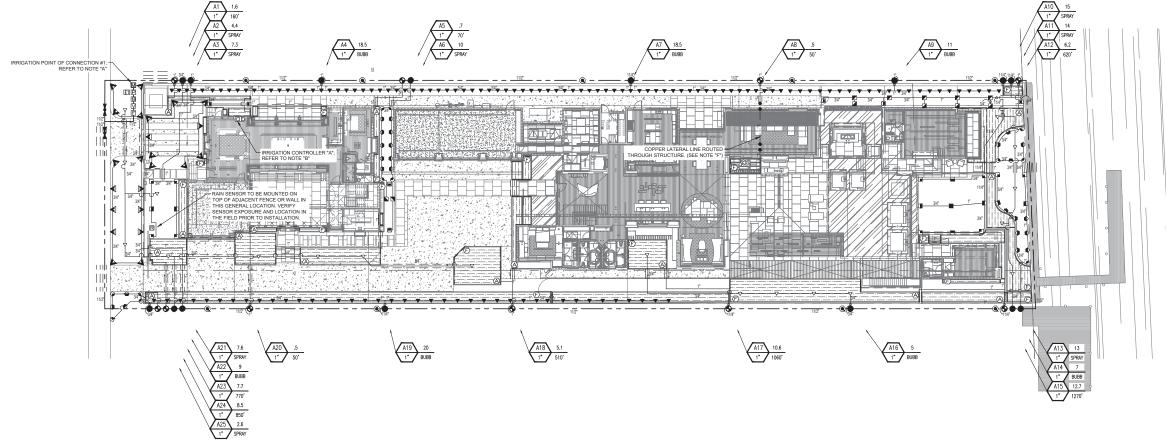
1234



date: 02-27-2015

revised:





SCALE: 1/16" = 1'-0

|               | WATER PRI              | LOGURE                  | LU33 C/    | ALCU     | LAI    | IONS        |     |
|---------------|------------------------|-------------------------|------------|----------|--------|-------------|-----|
| WATER METE    | R NUMBER               | 1                       | WATER MET  | ER SIZE  | (Inche | s)          | 1.5 |
| HYDRAULIC G   | RADE LINE (FT)         | 0                       | WATER MET  | ER ELEV  | /ATIO  | N (FT)      | 0   |
| ELEVATION D   | IFFERENCE (FT)         | 0                       | STATIC PRE | SSURE (I | PSI)   |             | 48. |
| REMOTE CON    | TROL VALVE #           | A19                     | REMOTE CO  | NTROL V  | ALVE   | SIZE (In.)  | 1.0 |
| R.C.V. DEMAN  |                        | 20                      | TOTAL DEM  |          |        | ()          | 20  |
|               | D SERVED (FT)          | 0                       | STATIC PRE |          |        | HEST HEAD   | 0.0 |
| IRRIGA        | eeney + associates     | BY SWEENE<br>OTHER PERS |            | NY OR PE | ROJEC  | T IS FORBIC |     |
| SIZE (Inches) | DESCRIPTION            |                         |            | FLOW     | #      | LOSS        |     |
| 1.50          | SERVICE LINE (50 FT O  |                         | PER)       | 20       | 1      | 0.92        | PSI |
| 1.50          | WATER METER (XXXX T    |                         |            | 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 ELBOW    | S                       |            | 20       | 13     | 0.97        | PSI |
| 1.00          | REMOTE CONTROL VAL     | VE ASSEMBL              | Y          | 20       | 14     | 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 SYSTE   | M PRESSURE LOSS (SU    | JM OF #1 THRU           | J #17)     |          | 18     | 31.0        | PSI |
| PRESSURE R    | EQUIRED AT HEAD (OPE   | RATING PRES             | SURE)      |          | 19     | 30.0        | PSI |
|               | SURE REQUIRED (SUM C   |                         | 9)         |          | 20     | 61.0        | PSI |
| STATIC WATE   | R PRESSURE (FROM AE    | BOVE)                   |            |          | 21     | 48.0        | PSI |
|               | ESSURE (SUBTRACT #2    |                         |            |          | 22     | -13.0       | PSI |
|               | MCV AT (#20 PLUS 10 PS | SIV                     |            |          | 23     | N/A         | PSI |
|               | OOST, IF REQUIRED (SE  |                         |            |          | 24     | 33.0        | PSI |

NOTE A:
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,
METER SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK.
MEASUREMENT OF THE STATIC (NO WATER MOVING) WATER PRESSURE IS ACCEPTABLE
FOR POTABLE WATER SYSTEMS WHERE NO PLUMP HAS BEEN INDICATED ON THESE PLANS.
WHEN UISING SECYLCED WATER, OR ON POTABLE WATER SYSTEMS REQUIRING A PLUMP,
ONLY THE MEASUREMENT OF DYNAMIC (WATER MOVING THROUGH THE METER) WATER
MEASURED ATT THE MAXIMUM SYSTEM DEBANDA SI INDICATED BLOW, IF ANY OF THE POC
INFORMATION SHOWN ON THESE DRAWING IS FOUND TO DE DIFFERENT THAN THE ACTUAL
POC INFORMATION CATHERED IN THE FIELD, MIMEDIATELY NOTE THAN THE ACTUAL
POC INFORMATION CATHERED IN THE FIELD, MIMEDIATELY NOTE THAN THE ACTUAL
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POC INFORMATION CATHERED IN THE FIELD, MIMEDIATELY NOTE THAN THE ACTUAL
POC INFORMATION CATHERED WOWN HEREIN, ANY CHANGES REQUIRED BY LOW PRESSURE
OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NOTE B:

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 ELECTRICAL POWER SUPPLY AT THIS LOCATION WITH THE OWNERS AUTHORIZES REPRESENTATIVE. FINAL LOCATION OF CONTROLLER AND ELECTRICAL POINT OF CONNECTION SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:

NOTE C:

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 SALL BE WITHIN FLATTER AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE D:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL
DOSTRUCTIONS THAT MAY OCCUE 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, OF IT IN DEADTUS! A VEFECTS THE COVERAGE,
AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE
OBSTACLE THE NOZZE SO FIRESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD
UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE
CONTRACTOR SHALL VERIEY VAL HEAD LANDLUT WITH OWNERS AUTHORIZED
REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:
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 OWNERS AUTHORIZED REPRESENTATIVE. THE
CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNERS AUTHORIZED
REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE:

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 CONTROL ON INSTALLE BE YOURIBING CONTROL TOP. EACH STIBLOUT WITHIN EACH PLANTER SHALL HAVE A COPPER FEMALE ADAPTER FOR THE LANDSCAPE CONTRACTOR CONNECTION, ALL PIPING THROUGH BUILDING TO EXTERIOR AND THROUGH BUILDING TO UPPER FLOOR SHALL BE PROVIDED BY PLUMBER.

NOTE G: ARTIFICIAL SOD AREAS TO HAVE IRRIGATION HEAD CAPPED OFF

#### IRRIGATION NOTES

- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HERBEY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 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.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
- 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 JUKKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE RROUGHT OF THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANCES DEMED 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.
- ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER
- CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO
- 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 MINUM 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 6"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 SHILDINGS, 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.
- 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.

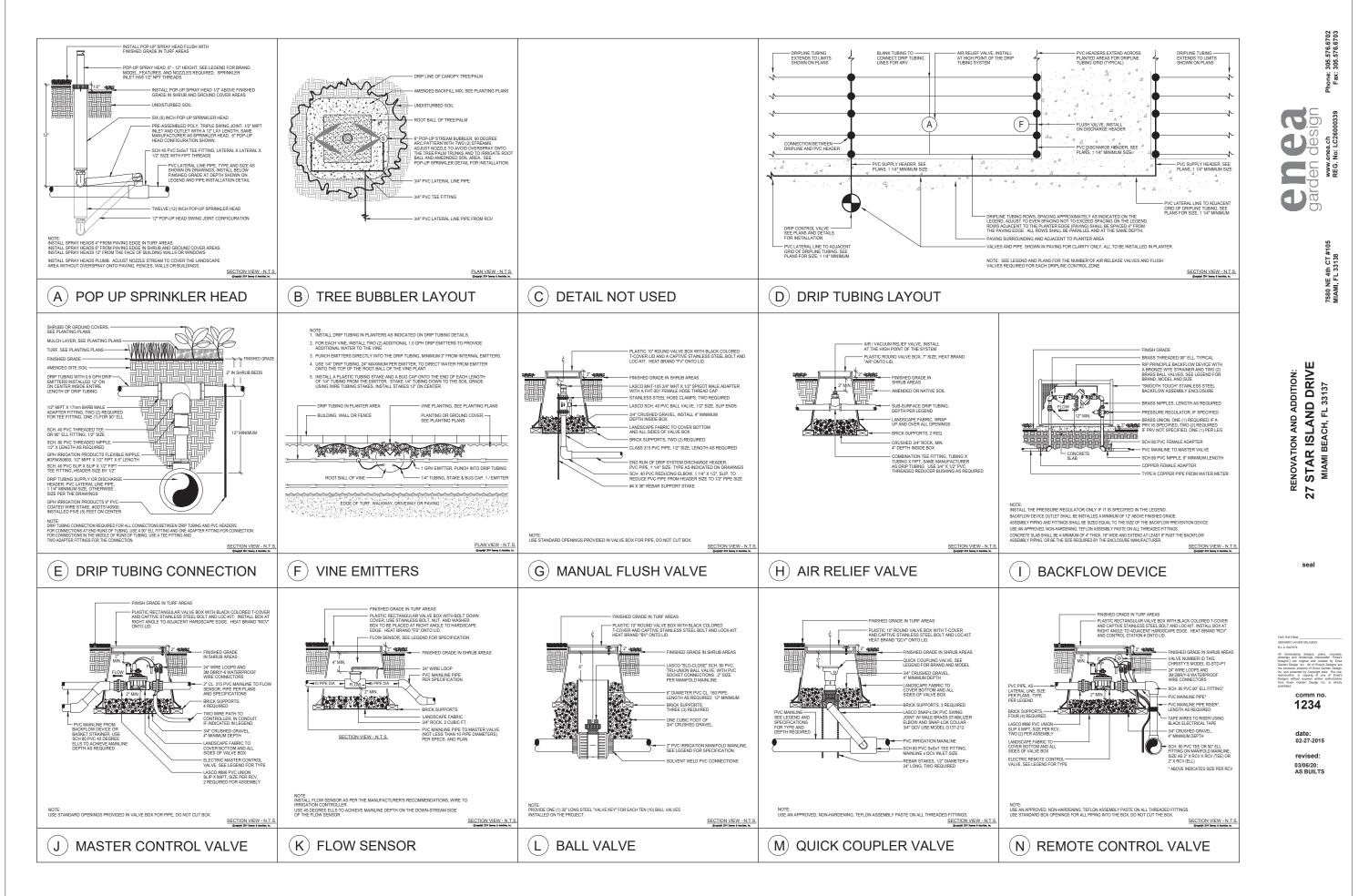
| POC or Controller   | 1           |            |             | JAN         | FEB         | MAR         | APR         | MAY         | JUN         | JUL         | AUG         | SEP         | OCT         | NOV         | DEC         | Total / Avg.                      |
|---------------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------------------|
|                     | E.          | To / 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                             |
| Λ                   |             | ETo / Day  | (Inches):   | 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                              |
|                     | Irrig       | ation Days | / Week:     | 7           | 7           | 7           | 7           | 7           | 7           | 7           | 7           | 7           | 7           | 7           | 7           |                                   |
| Plant / Irrig. Type | AKc         | Pr Rate    | IE          | JAN         | FEB         | MAR         | APR         | MAY         | JUN         | JUL         | AUG         | SEP         | ОСТ         | NOV         | DEC         |                                   |
| urf                 | 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                     |
| IP 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./Da                     |
| 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./Dav/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                     |
| Orip 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                    |
| Tota                | l Number    | of Zones:  | 25          | 122         | 163         | 185         | 230         | 227         | 229         | 229         | 216         | 198         | 170         | 145         | 122         | Total Min./Day                    |
| Total C             | ontroller   | Run Time   | in Hours:   | 2.04<br>JAN | 2.72<br>FEB | 3.08<br>MAR | 3.83<br>APR | 3.78<br>MAY | 3.82<br>JUN | 3.82<br>JUL | 3.61<br>AUG | 3.31<br>SEP | 2.84<br>OCT | 2.41<br>NOV | 2.04<br>DEC | Total Hrs./Day                    |
|                     |             |            |             | JAN         | FEB         | MAR         | AFR         | WAT         | JUN         | JUL         | AUG         | SEP         | 001         | NOV         | DEC         | _                                 |
| Note:               |             |            |             |             |             |             |             |             |             |             |             |             |             |             |             | e calculations<br>vatering window |
|                     |             |            |             |             |             |             |             |             |             |             |             |             |             |             |             | vatering windov<br>specific slope |
|                     |             |            |             |             |             |             |             |             |             |             |             |             |             |             |             | t of irrigation                   |
|                     |             |            |             |             |             |             |             |             |             |             |             |             |             |             |             | e provided ET                     |
|                     |             |            |             |             |             |             |             |             |             |             |             |             |             |             |             | ller cabinet pri                  |
|                     | to final to | urnover of | the project | t to the    | owner       |             |             |             |             | 8           |             |             |             |             |             |                                   |

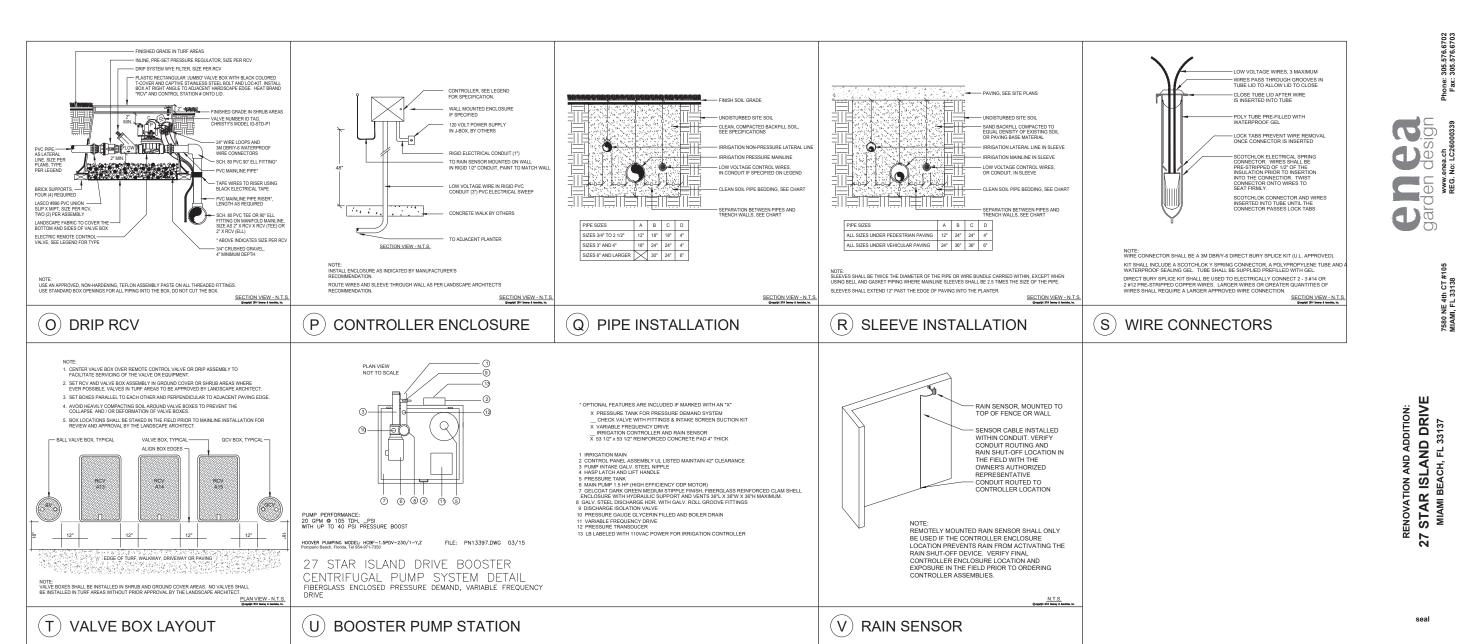
#### IRRIGATION MATERIAL LEGEND

| <b>♦</b><br><b>8</b> ■<br><b>8</b> Ø | RAIN BIRD                | 1806 6" POP-UP TURF HEAD WITH 8Q/8T/8H/8F "U S   |   |  |   |   |   |            |  |
|--------------------------------------|--------------------------|--|---|--|---|---|---|------------|--|
|                                      |                          | 1806 6" POP-UP TURF HEAD WITH 5Q/51/5H/5F "U   |   | .26, .52   | 30  | 8 FT  | 1.83 IN./HR.  | A          | B: 305.  |
|                                      | RAIN BIRD<br>RAIN BIRD   | 1806 6" POP-UP TURF HEAD WITH 15Q/151/15H/15 1806 6" POP-UP TURF HEAD WITH LCS/RCS/15SS1   |   | .92, 1.85, 3.70<br>.61, 1.21   | 30<br>30  | 15 FT<br>4X15 FT  | 1.83 IN./HR.<br>1.95 IN./HR.  | A<br>A     | Phone: (   |
| ₩ ₩                                  | HUNTER                   | PROS-06 6" POP-UP TURF HEAD WITH A MP2000-9  | 0(Q/T/H)/360 ADJUSTABLE NOZZLE  | .40, .74   | 40  | 4X30 FT<br>20 FT  | 0.45 IN./HR.  | A          | <u>a</u>   |
| •                                    | RAIN BIRD                | 1806 6" POP-UP BUBBLER HEAD WITH A HUNTER I  | MSBN-50Q NOZZLE, PROVIDE ONE PER  | .50  | 30  | 5 FT  | 2.00 IN./HR.  | A          |  |
| ▽                                    | RAIN BIRD                | 1806 6" POP-UP BUBBLER HEAD WITH A RAIN BIR<br>NOZZLE, EACH SYMBOL REPRESENTS TWO (2) BL<br>BUBBLERS AT EDGE OF ROOT BALL ON OPPOSIT<br>ADJUST BUBBLER STREAMS TO WET THE ROOT E<br>HITTING THE TRUNK OF THE TREE OR PALM.   | BBLERS PER TREE OR PALM, PLACE<br>E SIDES OF TREE OR PALM TYPICAL   | .50 (1.0 TOTAL)  | 30  | 5 FT  | N/A   | A,B        | en design  |
|                                      | RAIN BIRD                | XFS-06-12 SUBSURFACE DRIP TUBING (COPPER E<br>DRIP TUBING AT 12° D.C. SPACING. DRIP TUBING<br>DRIP EMITTER. DRIP TUBING SHALL BE INSTALLE<br>ON CENTER. THE PERIMETER BOW OF DRIP TUBING   | SHALL BE EQUIPPED WITH COPPER CHIP<br>D 2" BELOW FINISHED SOIL GRADE (NOT C   | TECHNOLOGY TO PREVENT<br>COUNTING MULCH) AND IN I  | T ROOT  <br>PARALLE                               | NTRUSION IN<br>L ROWS A M   | ITO THE<br>AXIMUM OF 16"  | D,E        | garden   |
|                                      |                          | SUBSEQUENT INTERIOR ROWS SHALL BE ADJUST INSTALL 9" PVC COATED GALVANIZED TUBING ST. SHALL BE MODEL #GDTS140900 AS MANUFACTUR REPRESENT THE APPROXIMATE DIRECTION AND  | ED TO PROVIDE AN EVEN SPACING ACRO<br>AKES A MAXIMUM OF FIVE (5) FEET ON CE<br>ED BY GPH IRRIGATION PRODUCTS (866) !<br>SPACING OF THE DRIP TUBING ROWS, SEI  | ISS THE PLANTER WITHOUT<br>NTER ALONG THE LENGTH<br>582-9684. THE HATCH PATT<br>E ACTUAL SPACING REQUIF  | FEXCEE<br>OF THE<br>FERN SY<br>REMENT             | DING 16" MAX<br>TUBING. TUI<br>MBOLS ON T<br>S ABOVE ANI                  | (IMUM SPACING<br>BING STAKES<br>HE PLANS<br>) IN DETAILS.                         | -          | IO.  |
| NO SYMBOL                            | RAIN BIRD                | CONNECTION BETWEEN XFS DRIP TUBING AND PVC THREADED FITTINGS, SCH 80 NIPPLES AND THREADED 90° ELBOW, A 12" X LENGTH AS REQUEABEN X12" MIPT ADAPTER FITTING. WHEN THE C 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADAPTERS. ALL END RUNS OF TUBING SHALL BE MANUFACTURED BY GPH IRRIGATION PRODUCTS | FLEXIBLE NIPPLES. WHEN THE CONNECTI<br>IRED SCH. 80 PVC THREADED NIPPLE, A 1<br>CONNECTION IS IN THE MIDDLE OF THE TU<br>DED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIF<br>CONNECTED WITH A PVC DISCHARGE HE<br>(866) 582-9684. | ION IS AT THE END RUN OF<br>1/2" X 6" MIPT X FIPT FLEXIBI<br>BING RUN USE A 1/2" SCH.<br>BLE NIPPLE, AND TWO (2) X<br>ADER. FLEXIBLE NIPPLES S | THE TUI<br>LE NIPPL<br>40 PVC TFF-MA-0<br>SHALL B | BING USE A 1<br>LE, AND A XFI<br>THREADED T<br>50 17mm BAF<br>E MODEL #GI | /2" SCH. 40 PVC<br>F-MA-050 17mm<br>EE FITTING, A<br>B X 1/2" MIPT<br>FN050600 AS | D,E        | 7580 NE 4th CT #105<br>MIAMI, FL 33138   |
| NO SYMBOL                            | RAIN BIRD                | XF SERIES 17mm BARBED FITTINGS FOR ALL CON<br>SHALL BE INSTALLED USING A FITINS-TOOL FOR F   | NECTIONS BETWEEN DRIP TUBING (TUBIN<br>PROPER INSERTION OF THE FITTING INTO   | IG-TO-TUBING ONLY). ALL I<br>THE TUBING. NO HEATING  | BARBED<br>OF TUB                                  | DRIP TUBING<br>ING SHALL B  | FITTINGS<br>E ALLOWED.  | D,E        | 80 N<br>AMI,   |
| NO SYMBOL                            | AS APPROVED<br>RAIN BIRD | PVC SUPPLY AND DISCHARGE HEADERS SHALL B WHERE VINES ARE PLANTED ON WALLS, FENCES THESE VINE PLANTINGS. THE CONTRACTOR SHASHALL BE PUNCHED DIRECTLY INTO THE DRIP TU EMITTER SHALL BE INSTALLED WITH AN 18" LENG LOCATE EMITTER OUTLETS DIRECTLY OVER THE  | OR COLUMNS WITHIN THE DRIP TUBING Z<br>LL INSTALL TWO (2) XB-10PC 1 GPH DRIP E<br>IBING. EMITTERS SHALL BE INSTALLED U:<br>TH OF XQ-1/4" DISTRIBUTION TUBING, A TS  | ONES, ADDITIONAL DRIP E<br>EMITTERS PER VINE PLANT<br>SING A XM-TOOL EMITTER I   | MITTERS<br>ING. TH<br>INSTALL                     | SHALL BE R<br>ESE ADDITIO<br>ATION TOOL                                   | EQUIRED FOR<br>NAL EMITTERS<br>EACH DRIP  | D,E<br>E,F | 757<br>MIM   |
| ©                                    | LASCO                    | 1/2" SCH. 40 PVC BALL VALVE WITH SLIP ENDS AN USE AS A DRIP TUBING FLUSH VALVE. SEE PLANS  | D A LASCO MHT-105 3/4" MHT X 1/2" SPIGO   | T ADAPTER WITH A LASCO   | FHT-301   | HOSE THRE   | AD CAP, FOR   | E,G        |  |
| <b>(A)</b>                           | RAIN BIRD                | ARV050 AIR/VACUUM RELIEF VALVE INSTALLED W<br>REDUCER BUSHING. INSTALL AIR RELIEF ASSEM<br>ARV'S PER DRIP ZONE. USING AN AIR RELIEF LAT<br>LATERALS WITHIN THE ELEVATED AREA. MULTIP   | ITH A XFD-TFA-075 BARB X BARB X 3/4" FIF<br>BLY AT THE HIGH POINT OF EACH PLANTE<br>ERAL CONSTRUCTED OF XFD "BLANK" XF  | PT TEE FITTING AND A AND<br>R. SEE PLANS FOR APPRO<br>TUBING, CONNECT AIR REI  | XIMATE<br>LIEF VAL                                | LOCATION A<br>VE TO ALL D   | ND QUANTITY OF<br>RIP LINE  |            | ш  |
| M                                    | P.O.C.                   | 1 1/2" POTABLE (DOMESTIC) WATER METER WITH   |   |  |   |   | ,0110 17212 00  | N/A        | FION:<br>RIVI  |
| B                                    | WILKINS                  | 975XLS, 1 1/2" R/P BACK FLOW PREVENTION DEVI   |   |  |   |   |   | I<br>U     | DTTC<br>DR<br>3137   |
| В                                    | HOOVER                   | (BID AL TENNALE) HOUVEN INKIGATION BOOSTER<br>CAVIOLIAT HOOVER PUMPS @ 954-275-6731 CON'<br>(NOTE THAT THE BOOSTER PUMP HAS BEEN PRO<br>CONSULTANT IF THE WATER PRESSURE AT THE S<br>PROCEED, TESTING OF THE WATER PRESSURE S  | TRACTOR SHALL VERIFY EXISTING POWER<br>VIDED AS AN OPTION IF THE STATIC WATE<br>SITE IS FOUND TO BE DIFFERENT THAN TH   | R SUPPLY AND WATER PRE<br>ER PRESSURE IS LESS THA<br>IE 70 PSI NOTED ON THE PL   | SSURE I   | PRIOR TO OF   | DERING PUMP<br>HE IRRIGATION  | U          | ND ND  |
| ⋈                                    | RAIN BIRD                | 100-PEB-PRS-D 1" NORMALLY CLOSED, PRESSURE<br>SEPARATE PILOT AND GROUND WIRE. INSTALL IN   |   |  | HE CONT   | ROLLER USI  | NG A  | J          | AN G.  |
| E                                    | CST                      | FSI-T10-001 1" PVC TEE, HDPE IMPELLER TYPE FLI<br>(GRAY) ELECTRICAL CONDUIT. INSTALL PER MAN<br>CREATIVE SENSOR TECHNOLOGY'S REPRESENTA  | UFACTURER'S RECOMMENDATIONS AND I<br>TIVE, GENTILE & ASSOCIATES (STEVEN K   | INSIDE A STANDARD RECT.<br>IM) AT (760) 214-5734 FOR F   | ANGULA  | R VALVE BOX<br>INFORMATION  | C. CONTACT<br>ON.   | К          | R ISI  |
|                                      | LASCO                    | V17101N-SC 1 1/2" SLO-CLOSE SCH. 80 PVC, TRUE INSTALL INSIDE A 10" ROUND VALVE BOX.  |   |  |   |   |   | L          | NOVAT<br>STAR<br>MIAMI   |
| •                                    | RAIN BIRD<br>RAIN BIRD   | 44LRC 1" QUICK COUPLER VALVE WITH LOCKING<br>100-PEB-PRS-D PRESSURE REGULATING, PLASTIC<br>REGULATOR TO PROVIDE THE OPERATING PRESS<br>CONTROL VALVE ZONE. INSTALL THE RCV INSIDE  | REMOTE CONTROL VALVE (RCV), SIZE AS<br>SURE OF THE SPRINKLER / BUBBLER HEAD   | S SHOWN (1" SIZE), SET PRED TO THE HIGHEST OR FAR  | S-D PRE   | SSURE   | BOX.  | M<br>N     |  |
| <b>•</b>                             | RAIN BIRD                | 100-PEB PLASTIC DRIP REMOTE CONTROL VALVE<br>THE DOWNSTREAM SIDE OF EACH DRIP REMOTE<br>SENNINGER 1º PMR-40-MF PRESSURE REGULATO   | CONTROL VALVE (DRCV). FOR 1" DRCV'S<br>R.   | INSTALL A RAIN BIRD LCRB   | Y-100D I  | DISC FILTER   | AND A   | O<br>P     | 7  |
| _                                    |                          | EGP32LS EAGLE PLUS 32 STATION CONTROLLER:<br>CONTROLLER IS COMPLETE WITH TWO (2) YEARS<br>AND FULLY PROGRAM THE CONTROLLER FOR AU<br>PROVIDE PROOF OF REGISTRATION AND PROGRA  | OF ICENTRAL INTERNET BASED CENTRAL TOMATIC PROGRAM ADJUSTMENT WITH FMMING TO THE OWNER. IF NECESSARY,   | CONTROL. CONTRACTOR RAINMASTER WEATHER DA' PROVIDE AN ANTENNA FOR  | TO REG<br>TA DOWI<br>R PROPE                      | ISTER ICENT<br>NLOAD. CON   | RAL SOFTWARE<br>TRACTOR TO  |            |  |
| R                                    | RAIN MASTER              | RS-500 WIRED RAIN SENSOR, MOUNT IN RGVRSS IN CONDUIT PAINTED TO MATCH WALL COLOR IN  | ENCLOSURE ON TOP OF FENCE OR WALL,<br>EXPOSED LOCATIONS.  | , WIRE TO THE CONTROLLE  | R   |   |   | V          |  |
| E                                    | N/A<br>N/A               | 120 VOLT ELECTRICAL POWER FOR CONTROLLER 230 VOLT (SINGLE/THREE) PHASE ELECTRICAL PO   |   |  | RIFY AC   | TUAL LOCAT  | ION IN FIELD  | N/A<br>N/A | seal   |
|                                      | AS APPROVED              | PVC PIPE 3/4" - 1 1/4" CL. 200, SOLVENT WELD WIT   |   |  |   |   |   | Q          |  |
|                                      | AS APPROVED              | PVC PIPE 1 1/2" SCH. 40, SOLVENT WELD WITH SC  |   |  |   |   |   | Q<br>-     |  |
|                                      | AS APPROVED              | PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIA<br>PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY<br>SHALL BE INSTALLED 24" BELOW FINISHED GRAD  | OWNER'S AUTHORIZED REPRESENTATIVE<br>E. SLEEVES UNDER VEHICULAR PAVING S  | E) INSIDE SLEEVES. SLEEVI<br>SHALL BE INSTALLED 36" BE   | ES UNDE   | R PEDESTRI<br>IISHED GRAD   | AN PAVING<br>IE.  | R          |  |
| -··-                                 | AS APPROVED              | TYPE 'K' COPPER PIPING ROUTED BETWEEN PLAN PLUMBING ENGINEER AND BE SHOWN ON THE PL IS FOR REFERENCE ONLY. VERIFY LOCATION, SIZ  | UMBING PLANS. COPPER PIPING SHALL B<br>ZE AND STUB-OUTS OF COPPER PIPING IN   | IE INSTALLED BY THE PLUN<br>THE FIELD PRIOR TO STAR  | IBER. C   | OPPER PIPIN<br>ORK.   | G SHOWN   | N/A        |  |
| NO SYMBOL                            | AS APPROVED              | CONNECTION POINT BETWEEN COPPER PIPING (F<br>SIZED SWEAT X FIPT COPPER ADAPTER PROVIDE<br>A LINE SIZED PVC COUPLING FOR THE CONNECTI   | D FOR CONNECTION TO THE IRRIGATION<br>ON. VERIFY LOCATION, SIZE AND STUB-O  | PIPING. USE A LINE SIZED<br>UTS OF COPPER PIPING IN  | X 6" SCH<br>THE FIE                               | LD PRIOR TO   | C NIPPLE AND<br>STARTING WOR  |            | FOR THE FIRM.<br>GERARDO JAVIER DEL GADO<br>R.L.A. 0001574   |
| NO SYMBOL                            | LASCO<br>CHRISTY'S       | ALL FITTINGS USED WITH SOLVENT WELD MAINLI<br>PIPE. ALL FITTINGS USED WITH SOLVENT WELD<br>LINE PIPE. ALL THREADED PVC NIPPLES SHALL B<br>ALL SOLVENT WELD CONNECTIONS FOR BOTH M.   | ATERAL LINE PIPE SHALL BE SCH. 40 PVC<br>E SCH. 80 PVC PIPE, DARK GRAY IN COLOI<br>AINLINE AND LATERAL LINE SHALL BE MAD  | , WHITE IN COLOR, AND SIZ<br>R, WITH MOLDED THREADS<br>DE USING THE TWO-STEP P   | ZED TO N<br>S.<br>ROCESS                          | OF PRIMER   | ATERAL<br>AND SOLVENT   | N/A        | All implementary diseigns, planes, concept<br>diseases, particularly florestandine "Strale<br>Designa" are original and created by Enti-<br>Glasten Design, Inc. All of Ensais Designs as<br>the exclusive property of Ensa Galeston Design<br>reproduction, or copying of any of Ensa<br>Designs without express written authorization<br>from Ensai Galeston Design late. In a stretch<br>term, Ensai Galeston Design late, in a stretch |
|                                      |                          | CEMENT. PRIMER SHALL BE LOW VOC "PURPLE F<br>LINE SOLVENT CEMENT SHALL BE LOW VOC, "REI<br>BEING JOINED. ALL SOLVENT CEMENTED JOINTS   | HOT BLUE GLUE" CEMENT. USE DAUBER   | RS SIZED AT LEAST ONE-HA   | LF THE  | SIZE OF THE   | LATERAL<br>LARGEST PIPE   |            | Designs without express withen authorization<br>from Enan Garden Design line, is strict<br>prohibited.   |
| NO SYMBOL                            | AS APPROVED              | 1" SCH. 40 PVC, GRAY ELECTRICAL CONDUIT FOR OR ANY SPLICES. INSTALL INSIDE A STANDARD R  |   | MAXIMUM OF 200 FEET ON   | CENTER  | R FOR A 3 FO  | OT WIRE LOOP  | N/A        | 1234   |
| NO SYMBOL                            | PAIGE ELECTRIC           | P7079D POLYETHYLENE INSULATED, SOLID COPP<br>WIRES SHALL BE RED IN COLOR, COMMON GROU<br>CONTROLLERS ARE USED ON THE PROJECT, EAC<br>TWO (2) SPARE CONTROL WIRES (YELLOW) FROM<br>SPARE WIRES UP AND INTO EACH VALVE BOX ALI   | ND WIRE SHALL BE WHITE IN COLOR, SPA<br>H CONTROLLER SHALL HAVE A DIFFEREN<br>I THE CONTROLLER ALONG THE MAINLINE   | RE WIRES SHALL BE YELLO<br>IT COLOR FOR PILOT WIRES<br>IN ALL DIRECTIONS AWAY  | W IN CC   | LOR. WHER   | SHALL ROUTE   | N/A        | date:  |
| NO SYMBOL                            | 3M                       | DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-   | PROOF WIRE CONNECTORS FOR USE ON  | ALL WIRE SPLICES AND CO  | NNECTIO   | ONS   |   | s          | 02-27-2015   |
| NO SYMBOL                            | RAIN BIRD                | ALL VALVE BOXES SHALL BE VB SERIES, PLASTIC FOR VALVE BOXES IN SHRUB AREAS SHALL BE BL CLIP. BOXES SHALL BE AS SHOWN BELOW:  | ACK. ALL BOXES SHALL BE SECURED WIT   | TH A RAIN BIRD VB-LOCK-P   |   |   |   | Т          | revised:<br>03/06/20:<br>AS BUILTS   |
|                                      |                          | 7" ROUND BOXES VB-<br>10" ROUND BOXES VB-<br>STANDARD RECTANGULAR BOXES VB-  | RF AREAS (GREEN) 7RND 10RND STD JMB   | SHRUB AREAS (BLACK)  VB-7RNDBK  VB-10RVD-B BODY AND VB-S  VB-STD-B BODY AND VB-S  VB-JMB-B BODY AND VB-J                                       | TDBKL L   | .ID   |   |            |  |









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Phone: Fax:

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date: 02-27-2015

revised: