

sanibel fire station

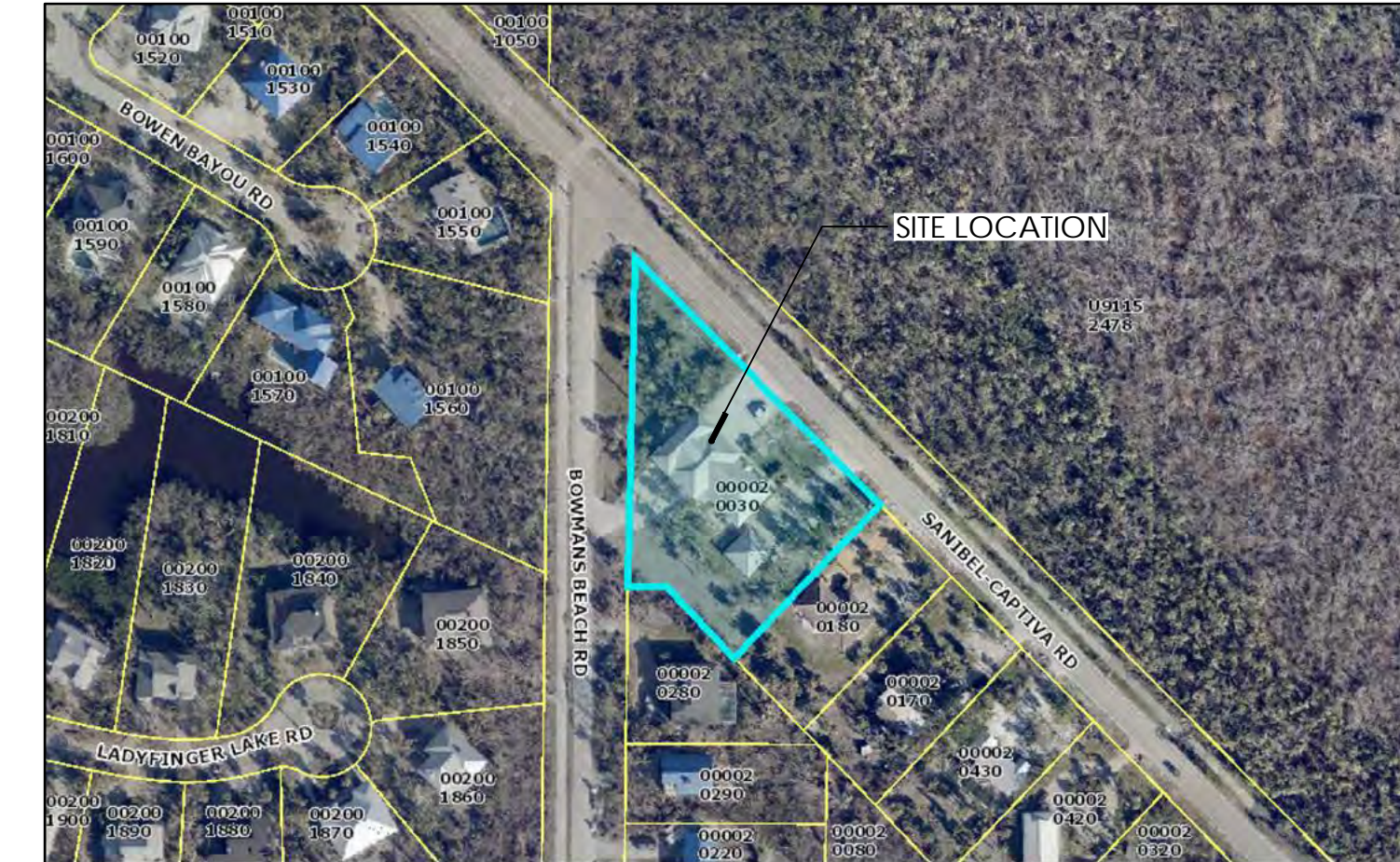
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CITY OF SANIBEL, FL

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Context Map - Not To Scale
(aerial imagery from Loeppa - captured 09/8/2023)



Project Map - Not To Scale
(aerial imagery from Loeppa - captured 08/8/2023)

OWNER
SANIBEL FIRE + RESCUE DISTRICT
2351 PALM RIDGE RD
SANIBEL FL 33957

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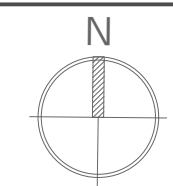
PROPERTY INFORMATION
Project Strap Number: 18-46-22-T1-00002.0030
Folio ID: 10020649
Refer to Engineer Plans for Legal Description

LEIGH A. GEVELINGER - State of Florida Professional
Landscape Architect, License No. LA6667171. This item has
been electronically signed and sealed by LEIGH A.
GEVELINGER, LA on 12/21/2023 using a Digital Signature.
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SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
Sanibel, FL 33957

COVER



Primary Issue Date: 09/11/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023

LEIGH A. GEVELINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: C

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23-049_SANIBEL FIRE STATION.dwg

PLANT SCHEDULE IMPACTED / EXISTING VEGETATION

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
IMPACTED - NATIVE				
BS-I	8	Bursera simaruba	Gumbo Limbo	IMPACTED
CU-I	2	Coccoloba uvifera	Sea Grape	IMPACTED
FS-I	2	Ficus aurea	Strangler Fig	IMPACTED
SS-I	10	Sabal palmetto	Sabal Palm	IMPACTED
REMAIN - NATIVE				
CU-E	4	Coccoloba uvifera	Sea Grape	EXISTING
CE-E	1	Conocarpus erectus	Buttonwood	EXISTING
FS-E	1	Ficus aurea	Strangler Fig	EXISTING
SS-E	29	Sabal palmetto	Cabbage Palmetto	EXISTING
SM-E	5	Swietenia mahagoni	West Indian Mahogany	EXISTING
REMOVE NATIVE PHASE 1				
FS-X1	1	Ficus aurea	Strangler Fig	MITIGATE 1:1
REMOVE NATIVE PHASE 2				
BS-X	6	Bursera simaruba	Gumbo Limbo	MITIGATE 1:1
CU-X	6	Coccoloba uvifera	Sea Grape	MITIGATE 1:1
FS-X	2	Ficus aurea	Strangler Fig	MITIGATE 1:1
SS-X	3	Sabal palmetto	Sabal Palm	MITIGATE 1:1
SM-X	1	Swietenia mahagoni	West Indian Mahogany	MITIGATE 1:1
REMOVE NON NATIVE PHASE 1				
DL-X	1	Dypsis lutescens	Areca Palm	Remove
REMOVE NON NATIVE PHASE 2				
CG-X	1	Cocos nucifera "Green Malayan"	Coconut Palm	Remove
STUMP / DEAD TREE				
CU-ER	1	Coccoloba uvifera	Sea Grape	MITIGATE 1:1
SM-ER	1	Swietenia mahagoni	West Indian Mahogany	MITIGATE 1:1
EXISTING - NATIVE				
FP-E	3	Forestiera segregata	Florida Privet	EXISTING
REMOVE NATIVE PHASE 1				
JC-X	20	Capparis cynophallophora	Jamaica Caper	MITIGATE 1:1
CI-X	18	Chrysobalanus icaco	Coco Plum	MITIGATE 1:1
FP-X	4	Forestiera segregata	Florida Privet	MITIGATE 1:1
REMOVE NATIVE PHASE 2				
FP-X2	1	Forestiera segregata	Florida Privet	MITIGATE 1:1
RP-X	1	Rapaenea punctata	Myrsine	MITIGATE 1:1
REMOVE NON-NATIVE PHASE 1				
HP-X2	35	Hamelia compacta	Firebush	Remove
REMOVE NATIVE PHASE 1				
ZF-X	12	Zamia floridana	Florida Coontie	MITIGATE 1:1

TEMPORARY IRRIGATION:
 TEMPORARY IRRIGATION SHALL BE INSTALLED TO PROVIDE WATER TO THE VEGETATION RELOCATION RECEPTOR AREAS TO ENSURE SURVIVAL OF TEMPORARILY RELOCATED PROTECTED TREES, PALMS AND SHRUBS ON SITE.

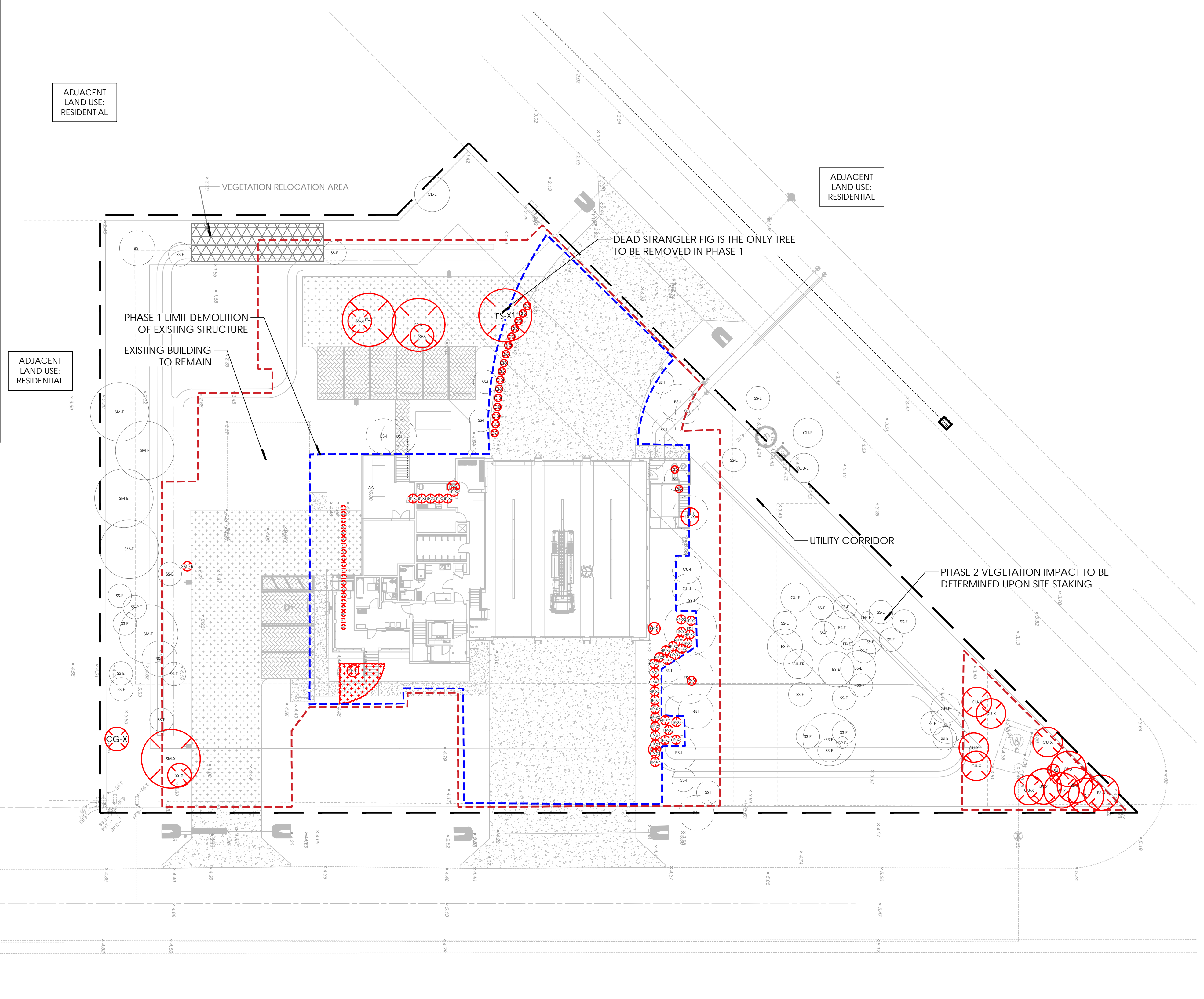
IMPORTANT:
 1. REFER TO ENGINEERING PLANS FOR SITE AND DRAINAGE & GRADING INFORMATION.
 2. PLANTING WITH THE DETENTION AREA SHALL BE APPROPRIATE FOR PERIODS OF INUNDATION.
 3. ALL AREAS NOT SHOWN AS PLANTING SHALL BE STABILIZED PER ENGINEER PLANS.
 4. ADDITIONAL VEGETATION IMPACTS MAY OCCUR RESULTING FROM UNDERGROUND UTILITY LOCATION INSTALLATION AND FROM OTHER SITE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAINTAIN INVENTORY OF IMPACTED VEGETATION FOR MITIGATION 1:1.

IMPORTANT: IRRIGATION
 PROPOSED VEGETATION IS RECOMMENDED TO BE INSTALLED DURING SUMMER RAINY SEASON - IF POSSIBLE. PROPOSED VEGETATION SHALL BE WATERED IN FOR A MINIMUM OF 60 DAYS OR UNTIL ESTABLISHED. A TEMPORARY ABOVE GROUND IRRIGATION SYSTEM MAY BE REQUIRED PENDING TIME OF YEAR OF LANDSCAPE INSTALLATION. OWNER/CLIENT TO APPROVE. A PERMANENT IRRIGATION SYSTEM IS NOT INCLUDED AS PART OF THIS PLAN SET.

LEGEND

- PHASE 1 DISTURBANCE LIMIT
- PHASE 2 DISTURBANCE LIMIT
- LIMIT OF WORK
- ⊗ REMOVE / MITIGATE IF NATIVE
- ⊘ IMPACTED / MITIGATE
- ⊙ REMAIN
- ▨ SHRUB/GROUND COVER AREA OF IMPACT
- ▩ VEGETATION RELOCATION AREA

VEGETATION IMPACT NOTE:
 VEGETATION IMPACTS PER PHASE 2 SHALL ONLY OCCUR UPON SITE STAKING OF NEW BUILDING & PARKING AREA.

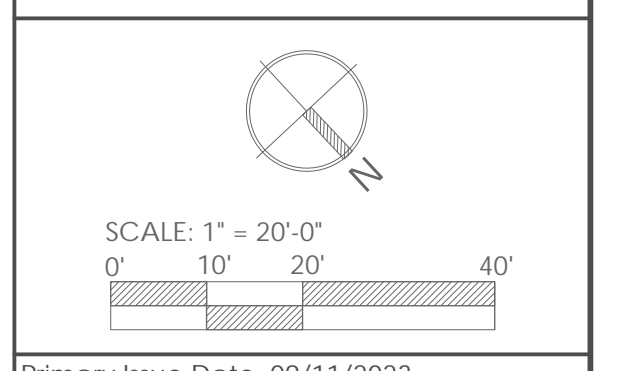


Call Before You Dig
 Call Sunshine State One Call, at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.

IMPORTANT: UNDERGROUND UTILITIES
 ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SEWER UTILITIES.

COASTAL VISTA DESIGN
 2410 PALM RIDGE ROAD
 SANIBEL ISLAND, FL 33957
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SANIBEL FIRE STATION
 5171 Sanibel-Captiva Road
 Sanibel, FL 33957
VEGETATION IMPACTS PLAN



Primary Issue Date: 09/11/2023
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LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

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SANIBEL-CAPTIVA ROAD
20 FT. WIDTH BUFFER x 347 LF = 6940 SF IF 100% PLANTABLE
(6940 SF TOTAL BUFFER) - 1482 SF (OF PARKING/WALK AREA)
= 5458 SF OF PLANTABLE BUFFER AREA

PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
5458 SF / 75 = 73 Large/medium Tree required

Category	Spacing	Required	Existing	PROPOSED
Large / Medium Tree	1/75 SF	73	9	64

SMALL TREE/ SHRUB (1 : 30 SF)
5458 SF ÷ 30 = 182 Small Tree/shrub Required

Category	Spacing	Required	Existing	PROPOSED
Small Tree / Shrub	1/30 SF	182*	1	181

SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
5458 SF ÷ 25 = 218 Small Shrub/groundcover Required

Category	Spacing	Required	Existing	PROPOSED
Small Shrub/Groundcover	1/25 SF	218	0	218

*25% SMALL TREE = 46 REQUIRED

BOWMAN'S BEACH RD
20 FT. WIDTH BUFFER x 288 LF = 5760 SF IF 100% PLANTABLE
(5760 SF TOTAL BUFFER) - 1080 SF (OF PARKING/WALK AREA)
= 4680 SF OF PLANTABLE BUFFER AREA

PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
4680 SF / 75 = 63 Large/medium Tree required

Category	Spacing	Required	Existing	PROPOSED
Large / Medium Tree	1/75 SF	63	9	54

SMALL TREE/ SHRUB (1 : 30 SF)
4680 SF ÷ 30 = 156 Small Tree/shrub Required

Category	Spacing	Required	Existing	PROPOSED
Small Tree / Shrub	1/30 SF	156*	1	155

SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
4680 SF ÷ 25 = 188 Small Shrub/groundcover Required

Category	Spacing	Required	Existing	PROPOSED
Small Shrub/Groundcover	1/25 SF	188	0	188

*25% SMALL TREE = 39 REQUIRED

EAST BUFFER
15 FT. WIDTH BUFFER x 180 LF = 2700 SF

PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
2700 SF / 75 = 36 Large/medium Tree required

Category	Spacing	Required	Existing	PROPOSED
Large / Medium Tree	1/75 SF	36	10	26

SMALL TREE/ SHRUB (1 : 30 SF)
2700 SF ÷ 30 = 90 Small Tree/shrub Required

Category	Spacing	Required	Existing	PROPOSED
Small Tree / Shrub	1/30 SF	90*	0	90

SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
2700 SF ÷ 25 = 108 Small Shrub/groundcover Required

Category	Spacing	Required	Existing	PROPOSED
Small Shrub/Groundcover	1/25 SF	108	0	108

*25% SMALL TREE = 23 REQUIRED

SOUTH BUFFER
15 FT. WIDTH BUFFER x 99 LF = 1485 SF

PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
1485 SF / 75 = 20 Large/medium Tree required

Category	Spacing	Required	Existing	PROPOSED
Large / Medium Tree	1/75 SF	20	2	18

SMALL TREE/ SHRUB (1 : 30 SF)
1485 SF ÷ 30 = 150 Small Tree/shrub Required

Category	Spacing	Required	Existing	PROPOSED
Small Tree / Shrub	1/30 SF	150	0	150

SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
1485 SF ÷ 25 = 60 Small Shrub/groundcover Required

Category	Spacing	Required	Existing	PROPOSED
Small Shrub/Groundcover	1/25 SF	60	0	60

*25% SMALL TREE = 13 REQUIRED

INTERIOR PARKING
9 PARKING x 20 SF =
MIN 180 SF INT LAND
PER SEC. 126-1405

LARGE/MEDIUM TREE (1 : 200 SF)
180 SF / 200 X 1 = 1 Large/medium Tree required

Category	Required	Existing	PROPOSED
Large / Medium Tree	1	0	1

SMALL TREE/ SHRUB (1 : 30 SF)
180 SF / 200 X 5 = 4.5 small Tree/medium shrubs required

Category	Required	Existing	PROPOSED
Small Tree / Shrub	5	0	5

SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
180 SF / 200 X 8 = 7.2 groundcovers required

Category	Required	Existing	PROPOSED
Small Shrub/Groundcover	8	0	8

SEC. 126-1405 - LANDSCAPING.

OFF-STREET PARKING AREAS SHALL HAVE AT LEAST 20 SQUARE FEET OF INTERIOR LANDSCAPING FOR EACH PARKING SPACE. SUCH LANDSCAPED AREAS SHALL BE LOCATED IN SUCH A MANNER AS TO DIVIDE AND BREAK UP THE EXPANSE OF THE PARKING LOT AND AT STRATEGIC POINTS TO GUIDE TRAFFIC FLOW AND DIRECTION. LANDSCAPED AREAS SHALL NOT BE SEPARATED BY MORE THAN TEN CONTINUOUS PARKING SPACES. EACH 200 SQUARE FEET OF LANDSCAPED AREA SHALL HAVE AT LEAST ONE TALL OR MEDIUM TREE, FIVE SMALL TREES AND EIGHT SMALL SHRUBS OR GROUND COVER PLANTS, AT LEAST 75 PERCENT OF WHICH ARE TO BE NATIVE PLANTS; NOT MORE THAN 25 PERCENT MAY BE NONCOMPETING EXOTIC SPECIES OF PLANTS. LOW GRASSES SUCH AS ST. AUGUSTINE, BAHIA, BERMUDA AND ZOYSIA GRASSES AND OTHER EXOTIC GRASSES AND VINES SHALL NOT BE USED. THE PLANNING COMMISSION MAY, UPON REVIEW AND RECOMMENDATION OF THE VEGETATION COMMITTEE AND CITY MANAGER, VARY THE SPECIFIC REQUIREMENTS SET FORTH IN THIS SECTION, AS LONG AS THE PURPOSE AND INTENT OF THIS SECTION ARE ACCOMPLISHED. ALL VEGETATION PLANTED IN SUCH LANDSCAPED AREAS SHALL BE INSTALLED AND PERMANENTLY MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 122, ARTICLE II, DIVISION 2.

BUFFER VEGETATION NOTES:

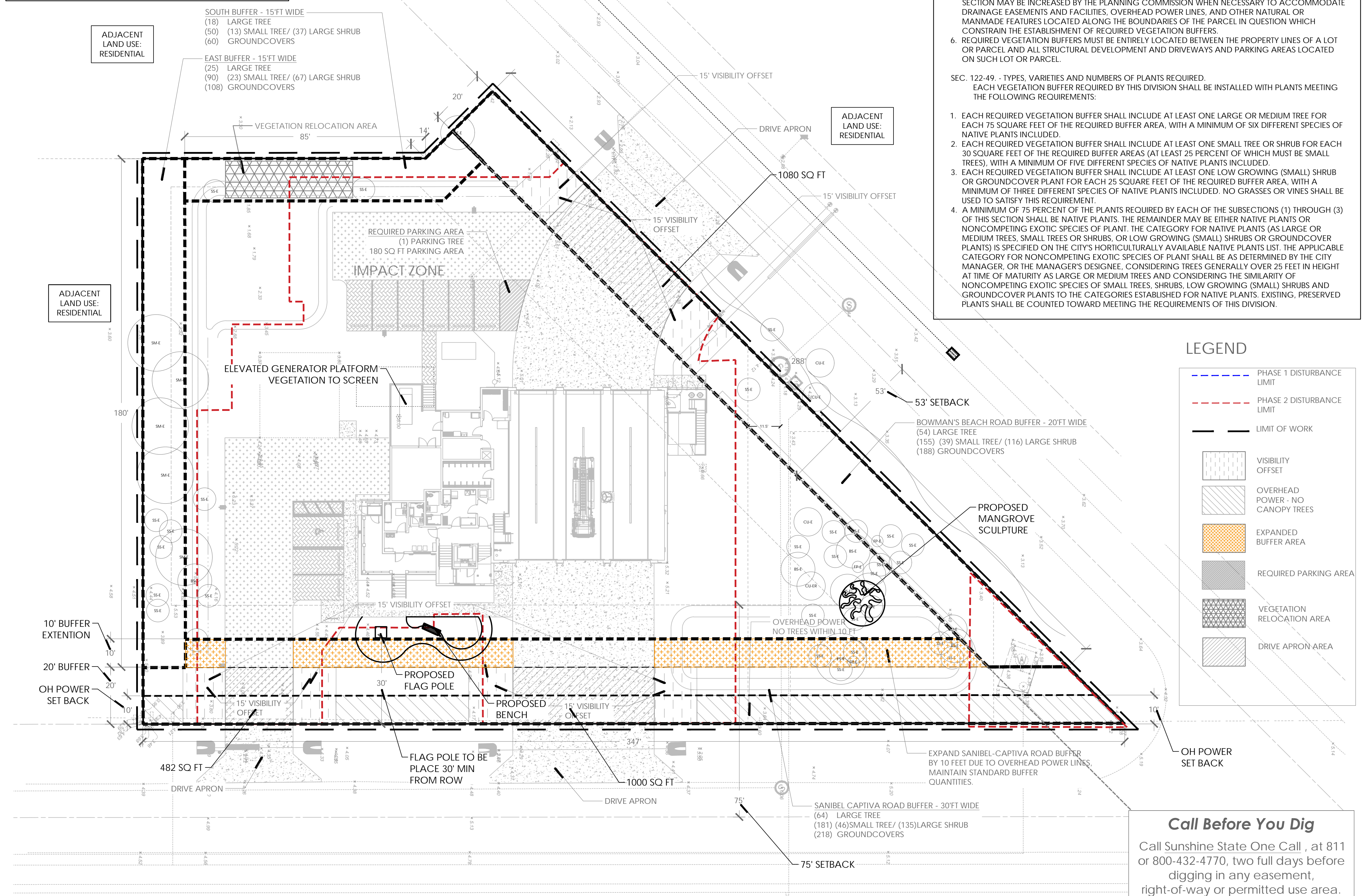
SEC. 122-47 - VEGETATION BUFFERS REQUIRED.
IN ADDITION TO THE INTERIOR LANDSCAPING REQUIRED FOR PARKING AREAS BY SECTION 126-1405, ALL COMMERCIAL AND INSTITUTIONAL DEVELOPMENT AND USES (INCLUDING SPECIAL USES NOT EXEMPTED FROM COMPLIANCE WITH THIS DIVISION) SHALL INCLUDE STRIPS OF VEGETATION (CALLED "VEGETATION BUFFERS" IN THIS DIVISION), IN COMPLIANCE WITH THE STANDARDS OF THIS DIVISION FOR THE LOCATION, PLANTING, AND MAINTENANCE OF SUCH VEGETATION BUFFERS, AS A MEANS OF PROVIDING A BARRIER TO BOTH LIGHT AND SOUND CREATED BY SUCH USES AND FOR THE PURPOSE OF MAINTAINING A RURAL, NATURAL ENVIRONMENT ALONG CITY STREETS.

SEC. 122-48 - LOCATION AND SIZE OF REQUIRED VEGETATION BUFFERS.
VEGETATION BUFFERS REQUIRED BY THIS DIVISION SHALL BE LOCATED AND SIZED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

1. A VEGETATION BUFFER AT LEAST 20 FEET IN DEPTH SHALL BE LOCATED ADJACENT TO THE RIGHT-OF-WAY OF ANY STREET, EXCEPT FOR PERIWINKLE WAY BETWEEN CAUSEWAY ROAD AND TARPON BAY ROAD.
2. ALONG PERIWINKLE WAY BETWEEN CAUSEWAY ROAD AND TARPON BAY ROAD, A VEGETATION BUFFER AT LEAST 20 FEET IN DEPTH SHALL BE LOCATED A MINIMUM OF 50 FEET AND A MAXIMUM OF 90 FEET FROM THE CENTERLINE OF THE PERIWINKLE WAY RIGHT-OF-WAY AND SHALL RUN PARALLEL TO SUCH CENTERLINE.
3. VEGETATION BUFFERS AT LEAST 15 FEET IN DEPTH SHALL BE LOCATED ALONG ALL SIDE LOT LINES.
4. VEGETATION BUFFERS AT LEAST 15 FEET IN DEPTH SHALL BE LOCATED ALONG ALL REAR LOT LINES, OR ALONG THE BOUNDARY OF A COMMERCIAL DISTRICT IF SUCH BOUNDARY IS LOCATED ON THE PROPERTY CLOSER TO THE ABUTTING STREET THAN THE REAR LOT LINE.
5. THE MINIMUM DEPTHS FOR VEGETATION BUFFERS REQUIRED BY SUBSECTIONS (1) THROUGH (4) OF THIS SECTION MAY BE INCREASED BY THE PLANNING COMMISSION WHEN NECESSARY TO ACCOMMODATE DRAINAGE EASEMENTS AND FACILITIES, OVERHEAD POWER LINES, AND OTHER NATURAL OR MANMADE FEATURES LOCATED ALONG THE BOUNDARIES OF THE PARCEL IN QUESTION WHICH CONSTRAIN THE ESTABLISHMENT OF REQUIRED VEGETATION BUFFERS.
6. REQUIRED VEGETATION BUFFERS MUST BE ENTIRELY LOCATED BETWEEN THE PROPERTY LINES OF A LOT OR PARCEL AND ALL STRUCTURAL DEVELOPMENT AND DRIVEWAYS AND PARKING AREAS LOCATED ON SUCH LOT OR PARCEL.

SEC. 122-49 - TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED.
EACH VEGETATION BUFFER REQUIRED BY THIS DIVISION SHALL BE INSTALLED WITH PLANTS MEETING THE FOLLOWING REQUIREMENTS:

1. EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE LARGE OR MEDIUM TREE FOR EACH 75 SQUARE FEET OF THE REQUIRED BUFFER AREA, WITH A MINIMUM OF SIX DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED.
2. EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE SMALL TREE OR SHRUB FOR EACH 30 SQUARE FEET OF THE REQUIRED BUFFER AREAS (AT LEAST 25 PERCENT OF WHICH MUST BE SMALL TREES), WITH A MINIMUM OF FIVE DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED.
3. EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE LOW GROWING (SMALL) SHRUB OR GROUNDCOVER PLANT FOR EACH 25 SQUARE FEET OF THE REQUIRED BUFFER AREA, WITH A MINIMUM OF THREE DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED. NO GRASSES OR VINES SHALL BE USED TO SATISFY THIS REQUIREMENT.
4. A MINIMUM OF 75 PERCENT OF THE PLANTS REQUIRED BY EACH OF THE SUBSECTIONS (1) THROUGH (3) OF THIS SECTION SHALL BE NATIVE PLANTS. THE REMAINDER MAY BE EITHER NATIVE PLANTS OR NONCOMPETING EXOTIC SPECIES OF PLANT. THE CATEGORY FOR NATIVE PLANTS (AS LARGE OR MEDIUM TREES, SMALL TREES OR SHRUBS, OR LOW GROWING (SMALL) SHRUBS OR GROUNDCOVER PLANTS) IS SPECIFIED ON THE CITY'S HORTICULTURALLY AVAILABLE NATIVE PLANTS LIST. THE APPLICABLE CATEGORY FOR NONCOMPETING EXOTIC SPECIES OF PLANT SHALL BE AS DETERMINED BY THE CITY MANAGER, OR THE MANAGER'S DESIGNEE, CONSIDERING TREES GENERALLY OVER 25 FEET IN HEIGHT AT TIME OF MATURITY AS LARGE OR MEDIUM TREES AND CONSIDERING THE SIMILARITY OF NONCOMPETING EXOTIC SPECIES OF SMALL TREES, SHRUBS, LOW GROWING (SMALL) SHRUBS AND GROUNDCOVER PLANTS TO THE CATEGORIES ESTABLISHED FOR NATIVE PLANTS. EXISTING, PRESERVED PLANTS SHALL BE COUNTED TOWARD MEETING THE REQUIREMENTS OF THIS DIVISION.



LEGEND

- PHASE 1 DISTURBANCE LIMIT
- PHASE 2 DISTURBANCE LIMIT
- LIMIT OF WORK
- [Hatched] VISIBILITY OFFSET
- [Hatched] OVERHEAD POWER - NO CANOPY TREES
- [Hatched] EXPANDED BUFFER AREA
- [Hatched] REQUIRED PARKING AREA
- [Hatched] VEGETATION RELOCATION AREA
- [Hatched] DRIVE APRON AREA

Call Before You Dig
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IMPORTANT: UNDERGROUND UTILITIES
ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SEWER UTILITIES.

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CODE REQUIREMENTS PLAN

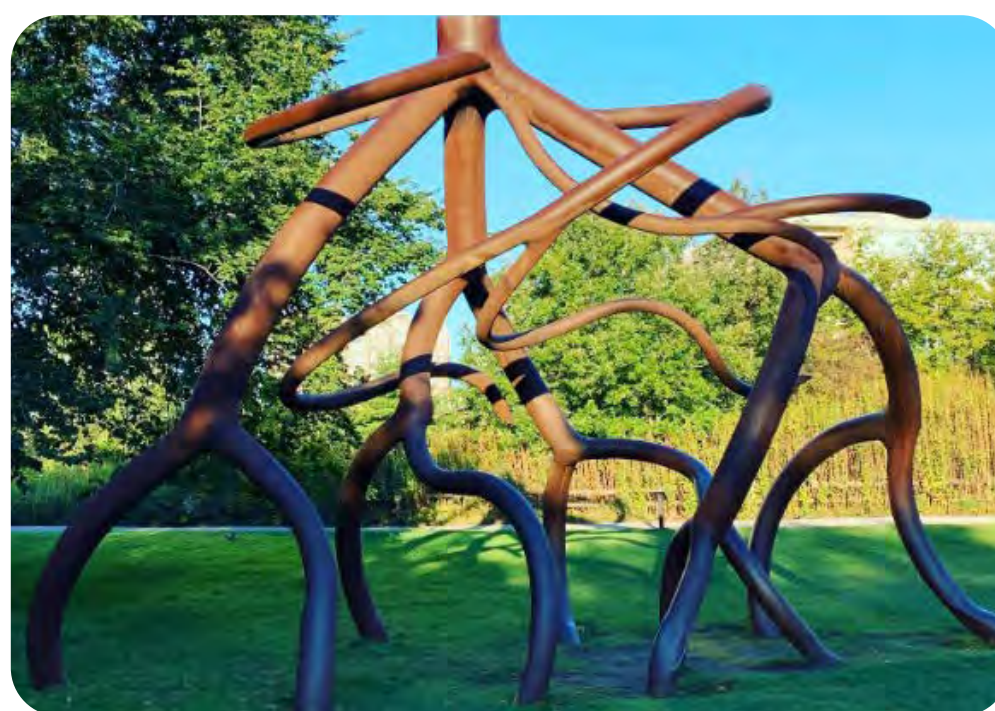
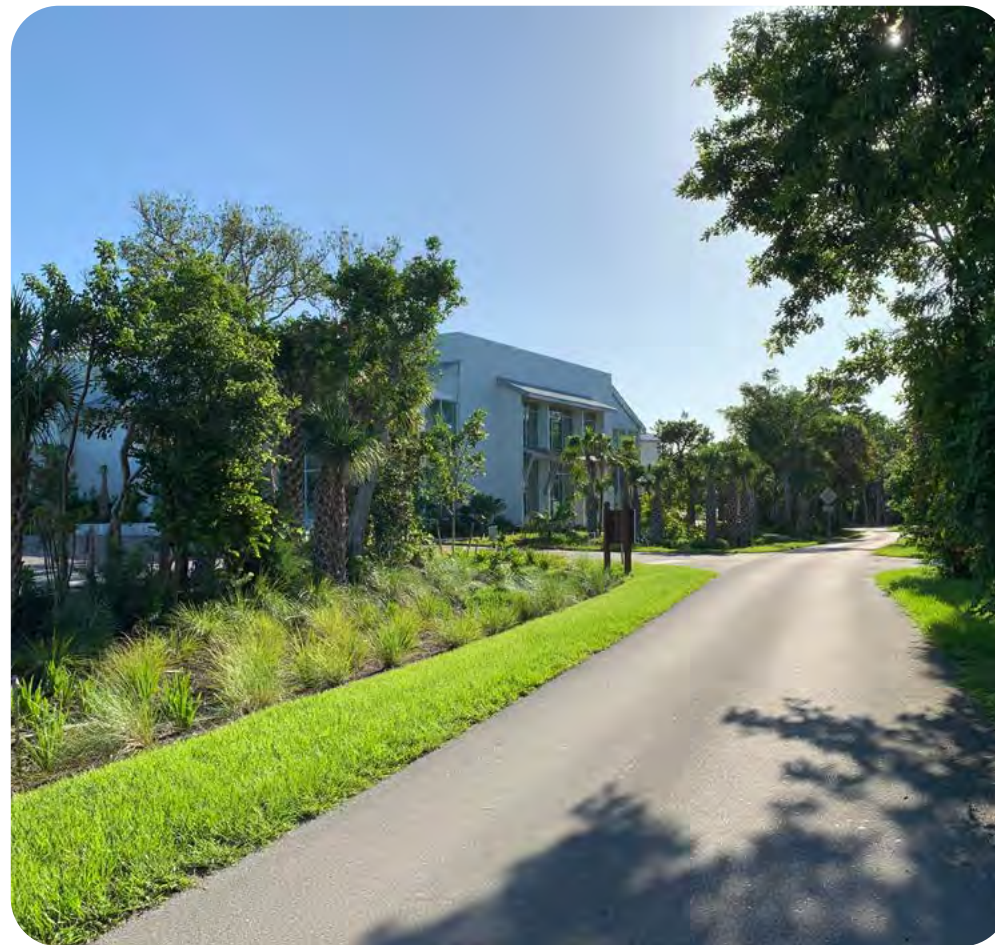
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FL LICENSE NO. LA 6667171

PROJECT #: 23-049
SHEET: LP-1

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MITIGATION
 NATIVE VEGETATION IMPACTED AS PART OF BUILDING DEMOLITION TO BE MITIGATED 1:1 AS PART OF PROPOSED NATIVE PLANTINGS - SEE PLANT SCHEDULE FOR MITIGATION PLANTING SPECIES & SIZES
 REMOVED NATIVE PLANTS TO BE MITIGATED 1:1

ALL NATIVES REMOVED AROUND BUILDING TO BE MITIGATED 1:1 IN WEST BUFFER.
 FINAL VEGETATION COUNTS TO BE DETERMINED FOLLOWING DEMO. FINAL PLAN SHALL BE MINIMUM 75% NATIVE/25% NONINVASIVE EXOTIC. ALL PROPOSED PLANTINGS TO BE 100% NATIVE.

IMPORTANT:
 1. REFER TO ENGINEERING PLANS FOR SITE AND DRAINAGE & GRADING INFORMATION.
 2. PLANTING WITH THE DETENTION AREA SHALL BE APPROPRIATE FOR PERIODS OF INUNDATION.
 3. ALL AREAS NOT SHOWN AS PLANTING SHALL BE STABILIZED PER ENGINEER PLANS.

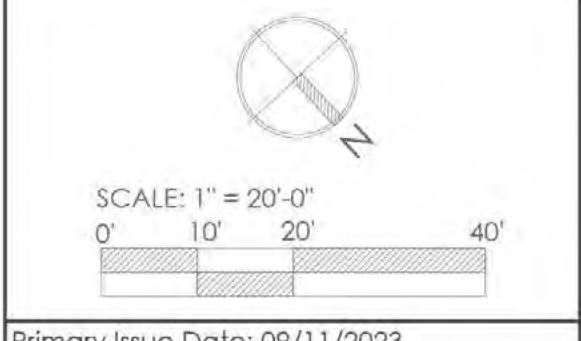
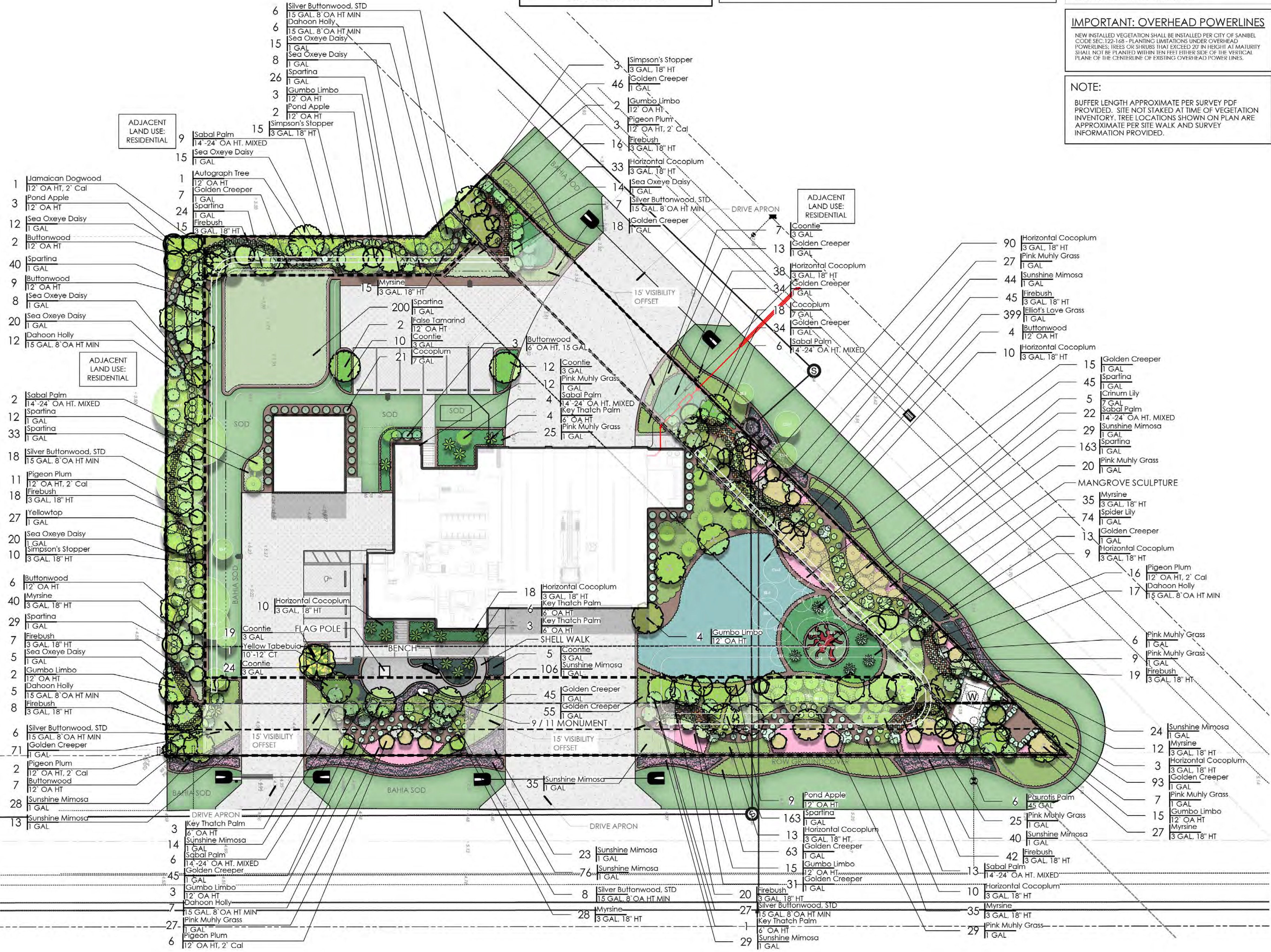
IMPORTANT: VEGETATION
 1. FINAL LANDSCAPE DESIGN, RELOCATIONS AND PLANT COUNTS PENDING REVIEW WITH NATURAL RESOURCES DEPARTMENT.
 2. TOTAL SITE SHALL BE 75% OR GREATER NATIVE VEGETATION THROUGH ALL THREE PLANT CATEGORIES. MAXIMUM OF 25% NON-NATIVE, NON-INVASIVE SPECIES MAY BE UTILIZED.
 3. SEE LANDSCAPE SCHEDULE FOR PLANT QUANTITIES & SIZES.
 4. SEE LP-7 FOR REQUIRED VEGETATION NOTES

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IMPORTANT: UNDERGROUND UTILITIES
 ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SINKER UTILITIES.

IMPORTANT: OVERHEAD POWERLINES
 NEW INSTALLED VEGETATION SHALL BE INSTALLED PER CITY OF SANIBEL CODE SEC.122-168 - PLANTING LIMITATIONS UNDER OVERHEAD POWERLINES. TREES OR SHRUBS THAT EXCEED 20' IN HEIGHT AT MATURITY SHALL NOT BE PLANTED WITHIN TEN FEET EITHER SIDE OF THE VERTICAL PLANE OF THE CENTERLINE OF EXISTING OVERHEAD POWER LINES.

NOTE:
 BUFFER LENGTH APPROXIMATE PER SURVEY PDF PROVIDED. SITE NOT STAKED AT TIME OF VEGETATION INVENTORY. TREE LOCATIONS SHOWN ON PLAN ARE APPROXIMATE PER SITE WALK AND SURVEY INFORMATION PROVIDED.



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LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-2

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 NATIVE VEGETATION IMPACTED AS PART OF BUILDING DEMOLITION TO BE MITIGATED 1:1 AS PART OF PROPOSED NATIVE PLANTINGS - SEE PLANT SCHEDULE FOR PROPOSED PLANTING SPECIES & SIZES
 REMOVED NATIVE PLANTS TO BE MITIGATED 1:1

ALL NATIVES REMOVED AROUND BUILDING TO BE MITIGATED 1:1 IN WEST BUFFER.
 FINAL VEGETATION COUNTS TO BE DETERMINED FOLLOWING DEMO. FINAL PLAN SHALL BE MINIMUM 75% NATIVE/25% NONINVASIVE EXOTIC. ALL PROPOSED PLANTINGS TO BE 100% NATIVE.

IMPORTANT: IRRIGATION
 PROPOSED VEGETATION IS RECOMMENDED TO BE INSTALLED DURING SUMMER RAINY SEASON - IF POSSIBLE. PROPOSED VEGETATION SHALL BE WATERED IN FOR A MINIMUM OF 60 DAYS OR UNTIL ESTABLISHED. A TEMPORARY, ABOVE GROUND IRRIGATION SYSTEM MAY BE REQUIRED PENDING TIME OF YEAR OF LANDSCAPE INSTALLATION. OWNER/CLIENT TO APPROVE. A PERMANENT IRRIGATION SYSTEM IS NOT INCLUDED AS PART OF THIS PLAN SET.

IMPORTANT:
 1. REFER TO ENGINEERING PLANS FOR SITE AND DRAINAGE & GRADING INFORMATION.
 2. PLANTING WITH THE DETENTION AREA SHALL BE APPROPRIATE FOR PERIODS OF INUNDATION.
 3. ALL AREAS NOT SHOWN AS PLANTING SHALL BE STABILIZED PER ENGINEER PLANS.

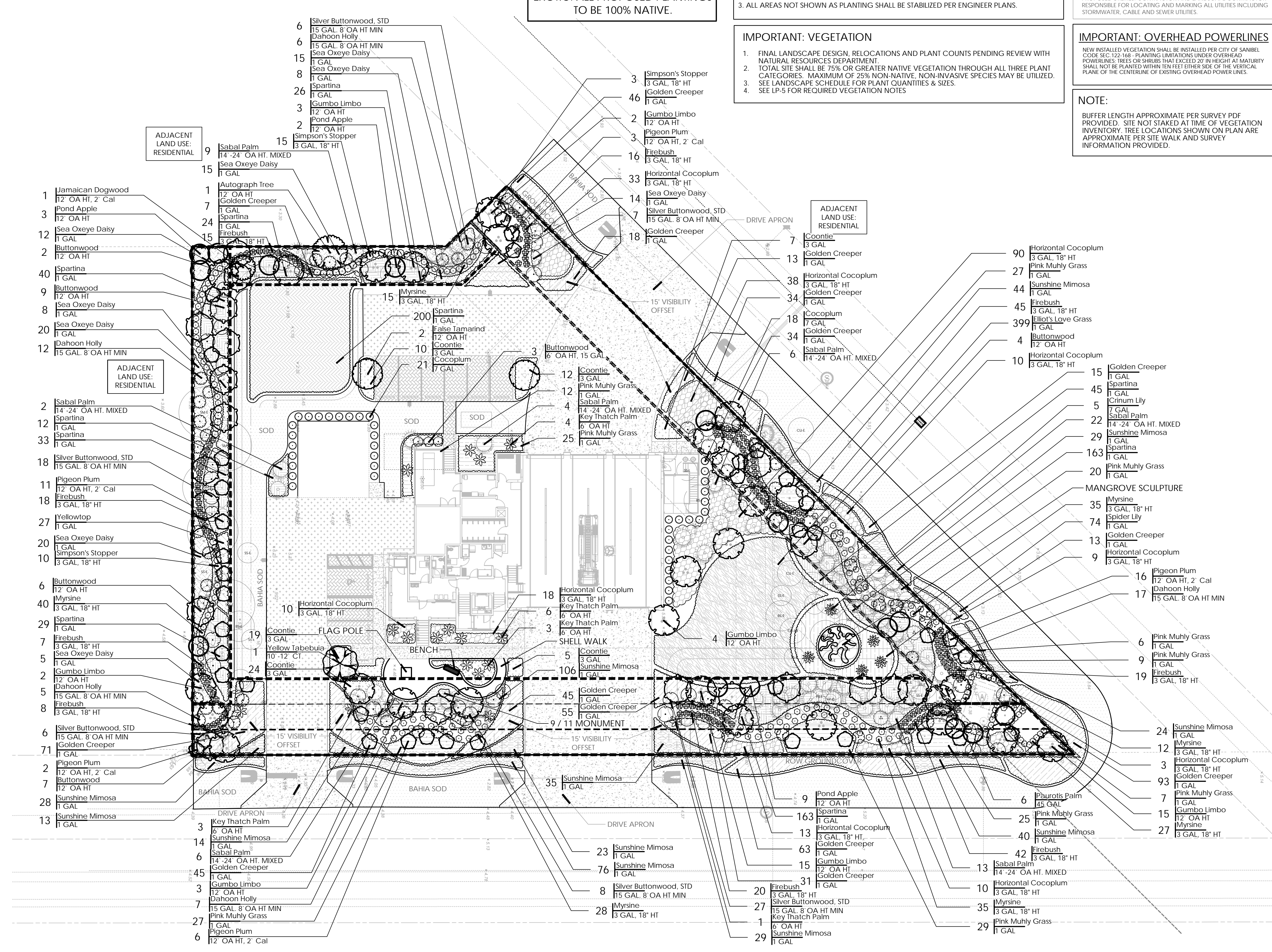
IMPORTANT: VEGETATION
 1. FINAL LANDSCAPE DESIGN, RELOCATIONS AND PLANT COUNTS PENDING REVIEW WITH NATURAL RESOURCES DEPARTMENT.
 2. TOTAL SITE SHALL BE 75% OR GREATER NATIVE VEGETATION THROUGH ALL THREE PLANT CATEGORIES. MAXIMUM OF 25% NON-NATIVE, NON-INVASIVE SPECIES MAY BE UTILIZED.
 3. SEE LANDSCAPE SCHEDULE FOR PLANT QUANTITIES & SIZES.
 4. SEE LP-5 FOR REQUIRED VEGETATION NOTES

Call Before You Dig
 Call Sunshine State One Call , at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.

IMPORTANT: UNDERGROUND UTILITIES
 ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SEWER UTILITIES.

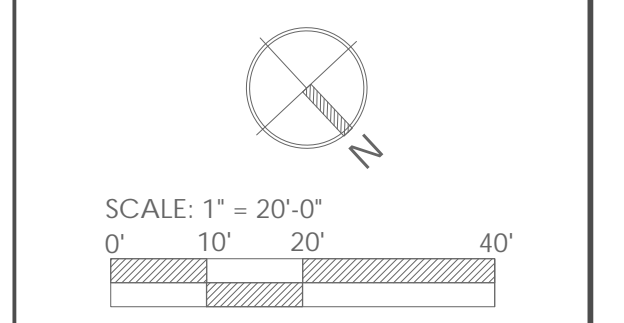
IMPORTANT: OVERHEAD POWERLINES
 NEW INSTALLED VEGETATION SHALL BE INSTALLED PER CITY OF SANIBEL CODE SEC. 122-168 - PLANTING LIMITATIONS UNDER OVERHEAD POWERLINES: TREES OR SHRUBS THAT EXCEED 20' IN HEIGHT AT MATURITY SHALL NOT BE PLANTED WITHIN TEN FEET EITHER SIDE OF THE VERTICAL PLANE OF THE CENTERLINE OF EXISTING OVERHEAD POWERLINES.

NOTE:
 BUFFER LENGTH APPROXIMATE PER SURVEY PDF PROVIDED. SITE NOT STAKED AT TIME OF VEGETATION INVENTORY. TREE LOCATIONS SHOWN ON PLAN ARE APPROXIMATE PER SITE WALK AND SURVEY INFORMATION PROVIDED.



COASTAL VISTA DESIGN
 2410 PALM RIDGE ROAD
 SANIBEL ISLAND, FL 33957
 TEL: 239-558-4610
 INFO@COASTALVISTADESIGN.COM

SANIBEL FIRE STATION
 5171 Sanibel-Captiva Road
 Sanibel, FL 33957
PROPOSED PLANTING PLAN



Primary Issue Date: 09/11/2023
 PLAN REVISIONS:

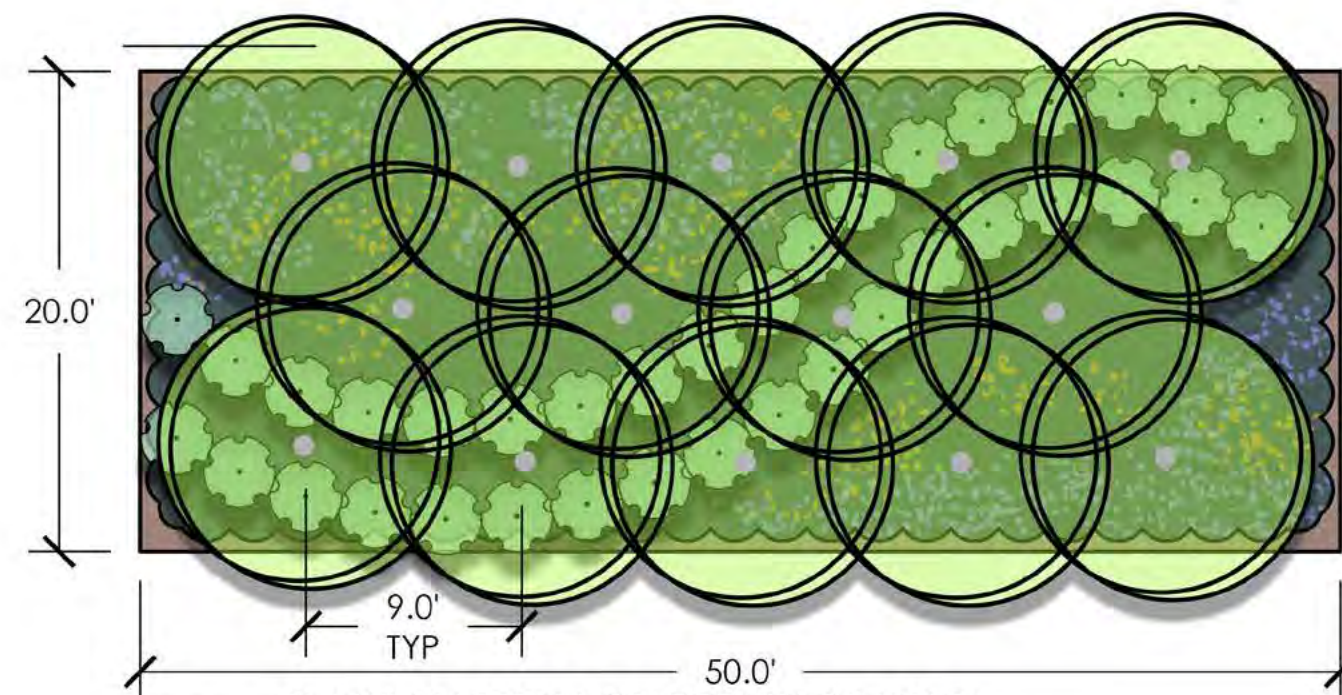
Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023

LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-2A

FOR PERMITTING & FOR BID ONLY. NOT FOR CONSTRUCTION.



**BUFFER DENSITY CALCULATIONS
CANOPY TREE 1/75 SF**
20 FT WIDTH BUFFER x 50 LF = 1000 SF IF 100%
PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
1000 SF / 75 = 13.3 Large/medium Tree required
SMALL TREE/ SHRUB (1 : 30 SF)
1000 SF ÷ 30 = 33.3 Small Tree/shrub Required
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
1000 SF ÷ 25 = 40 Small Shrub/groundcover Required

PLANT MATERIAL SELECTION SAMPLE:

- Large / Medium Tree Category - minimum of 6 Sanibel native species
Sample trees: Cabbage Palm (Sabal palmetto), Green Buttonwood (Conocarpus erectus), Gumbo Limbo (Bursera simaruba), Pitch Apple (Clusia rosea), LIVE OAK, (QUERCUS VIRGINIANA) **MIN SIZE 10'-12' HT, 2" CAL**
- Small Tree/Large Shrub - minimum of 6 Sanibel native species
Sample shrubs: Key Thatch Palm, (Thrinax morrisii), Silver Buttonwood (Conocarpus erectus 'Silver'), Dahoon Holly (Ilex cassine), Bahama Cassia (Senna mexicana var. chapmanii), Coco Plum (Chrysobalanus icaco), Simpson Stopper / Twinberry (Myrcianthes fragrans), Myrsine (Rapanea punctata) **75% MIN SIZE 7 GAL, 25% MIN SIZE 6" HT**
- Small Shrub/Groundcover - minimum of 3 Sanibel Native species
Sample Groundcovers: Short Leaf Wild Coffee (Psychotria ligustrifolia), Florida Coontie (Zamia pumila), Spider Lily (Hymenocallis latifolia), Muhly Grass (Muhlenbergia capillaris), Golden Creeper (Erondea littoralis), American Beautyberry (Callicarpa americana), Peperomia (Peperomia alata), Qualberry (Crossopetalum ilicifolium), WILD COFFEE (PSYCHOTRIA NERVOSA), SPARTINA (SPARTINA BAKERI) **MIN SIZE 1 GAL**

1A BUFFER PLANTING PLAN 20' X 50' TYPICAL LAYOUT

LP-3 SCALE: 1/8" = 1'



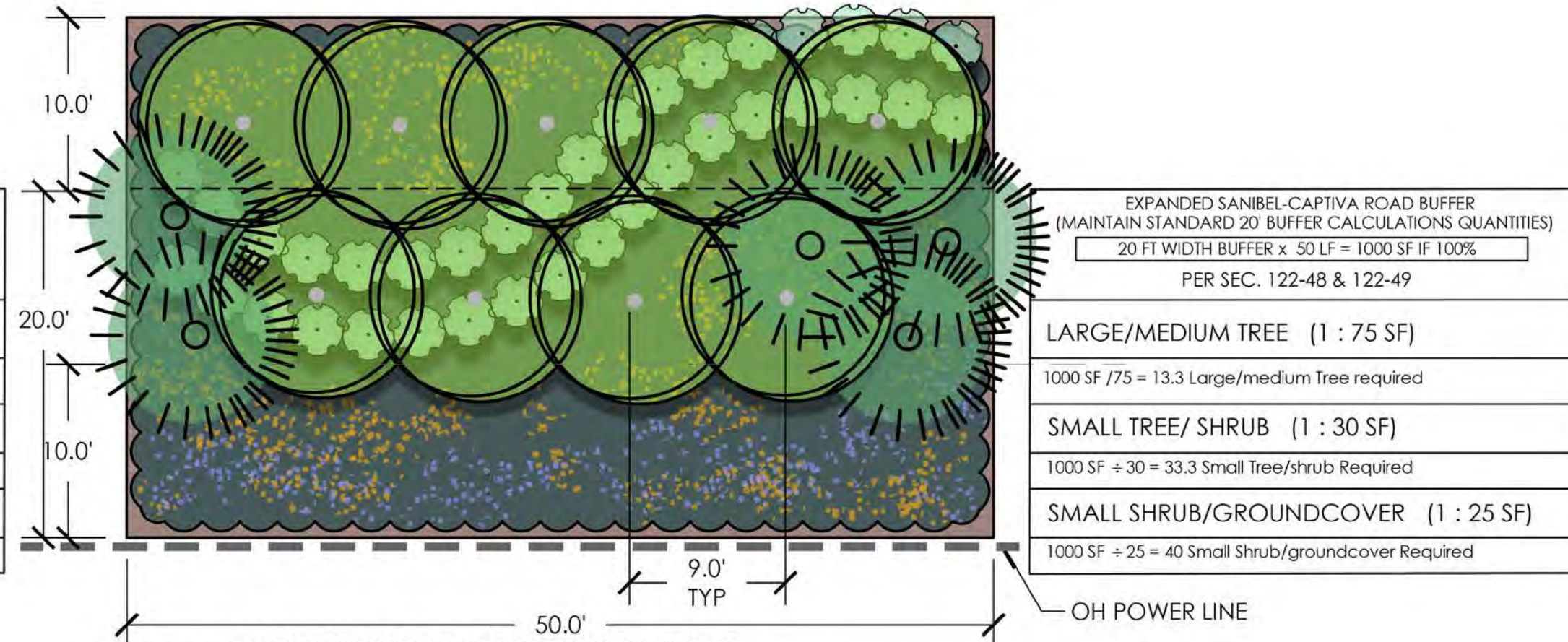
1B BUFFER PLANTING PLAN 20' X 50', AT TIME OF PLANTING

LP-3 SCALE: 1/8" = 1'



1C BUFFER PLANTING PLAN 20' X 50', AT 2-3 YEARS

LP-3 SCALE: 1/8" = 1'



**EXPANDED SANIBEL-CAPTIVA ROAD BUFFER
(MAINTAIN STANDARD 20' BUFFER CALCULATIONS QUANTITIES)**
20 FT WIDTH BUFFER x 50 LF = 1000 SF IF 100%
PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
1000 SF / 75 = 13.3 Large/medium Tree required
SMALL TREE/ SHRUB (1 : 30 SF)
1000 SF ÷ 30 = 33.3 Small Tree/shrub Required
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
1000 SF ÷ 25 = 40 Small Shrub/groundcover Required

PLANT MATERIAL SELECTION SAMPLE:

- Large / Medium Tree Category - minimum of 6 Sanibel native species
Sample trees: Cabbage Palm (Sabal palmetto), Green Buttonwood (Conocarpus erectus), Gumbo Limbo (Bursera simaruba), Pitch Apple (Clusia rosea), LIVE OAK, (QUERCUS VIRGINIANA) **MIN SIZE 10'-12' HT, 2" CAL**
- Small Tree/Large Shrub - minimum of 6 Sanibel native species
Sample shrubs: Key Thatch Palm, (Thrinax morrisii), Silver Buttonwood (Conocarpus erectus 'Silver'), Dahoon Holly (Ilex cassine), Bahama Cassia (Senna mexicana var. chapmanii), Coco Plum (Chrysobalanus icaco), Simpson Stopper / Twinberry (Myrcianthes fragrans), Myrsine (Rapanea punctata) **75% MIN SIZE 7 GAL, 25% MIN SIZE 6" HT**
- Small Shrub/Groundcover - minimum of 3 Sanibel Native species
Sample Groundcovers: Short Leaf Wild Coffee (Psychotria ligustrifolia), Florida Coontie (Zamia pumila), Spider Lily (Hymenocallis latifolia), Muhly Grass (Muhlenbergia capillaris), Golden Creeper (Erondea littoralis), American Beautyberry (Callicarpa americana), Peperomia (Peperomia alata), Qualberry (Crossopetalum ilicifolium), WILD COFFEE (PSYCHOTRIA NERVOSA), SPARTINA (SPARTINA BAKERI) **MIN SIZE 1 GAL**

2A BUFFER PLANTING PLAN 30' X 50' TYPICAL LAYOUT (OH POWER LINE)

LP-3 SCALE: 1/8" = 1'



2B BUFFER PLANTING PLAN 30' X 50', AT TIME OF PLANTING

LP-3 SCALE: 1/8" = 1'



2C BUFFER PLANTING PLAN 30' X 50', AT 2-3 YEARS

LP-3 SCALE: 1/8" = 1'

SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
Sanibel, FL 33957
CODE-REQUIRED BUFFERS

Primary Issue Date: 09/11/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023

LEIGH A. GEVELINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-3

23-049_SANIBEL FIRE STATION.dwg

PLANT SCHEDULE EAST BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

EAST BUFFER: TREE: 6 SPECIES REQUIRED, 4 SPECIES PROVIDED, 2 EXISTING SPECIES (SABAL PALM, MAHOGANY) SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 SPECIES PROVIDED.

PLANT SCHEDULE SANIBEL CAPTIVA ROAD BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

SANIBEL CAPTIVA ROAD BUFFER: TREE: 6 SPECIES REQUIRED, 6 SPECIES PROVIDED, SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 + SPECIES PROVIDED.

PLANT SCHEDULE BOWMAN'S BEACH ROAD BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

BOWMAN'S BEACH ROAD BUFFER: TREE: 6 SPECIES REQUIRED, 6 SPECIES PROVIDED, SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 + SPECIES PROVIDED.

PLANT SCHEDULE SOUTH BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

SOUTH BUFFER: TREE: 6 SPECIES REQUIRED, 6 SPECIES PROVIDED, SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 SPECIES PROVIDED.

PLANT SCHEDULE SITE PROPOSED VEGETATION

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PARKING TREE, PROPOSED - NATIVE, PROPOSED - NONNATIVE, PROPOSED SHRUBS - NATIVE, PROPOSED SHRUBS - NONNATIVE, and GROUND COVERS.

PLANT SCHEDULE PROPOSED ROW VEGETATION

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for GROUND COVERS and GROUNDCOVERS - NATIVE.



SANIBEL FIRE STATION

5171 Sanibel-Captiva Road Sanibel, FL 33957

PLANT SCGEDULE

Primary Issue Date: 09/11/2023 PLAN REVISIONS:

Table with columns: Version, Notes, Date. Contains revision history entries.

LEIGH A. GEVELINGER, P.L.A. FL LICENSE NO. LA 6667171

PROJECT #: 23-049

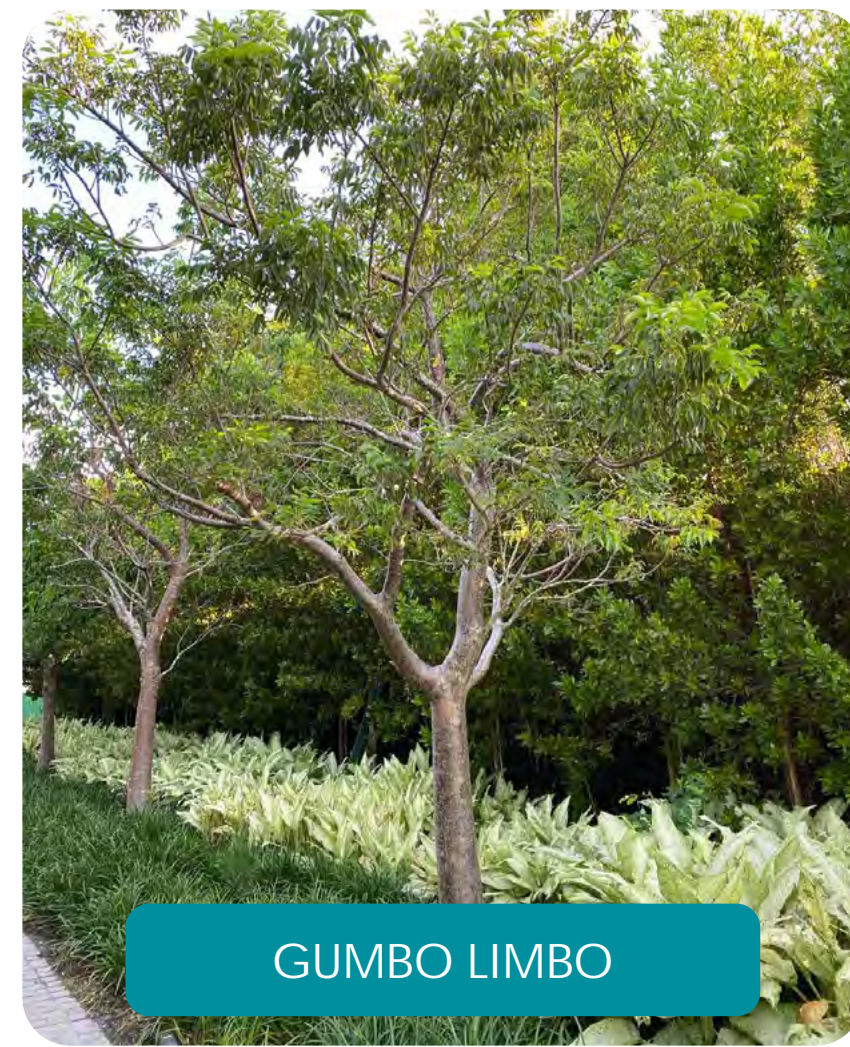
SHEET: LP-4

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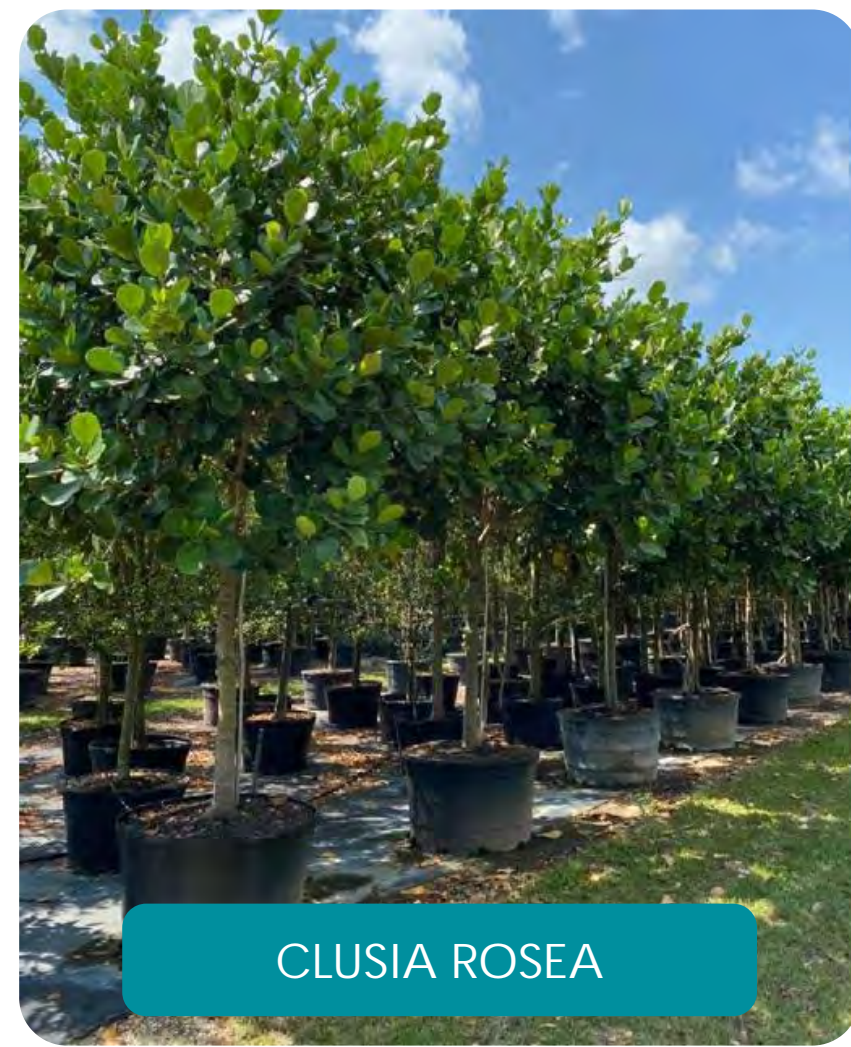
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23-049_SANIBEL FIRE STATION.dwg

BUFFER TREES



GUMBO LIMBO



CLUSIA ROSEA



WILD TAMARIND



GREEN BUTTONWOOD



JAMAICA DOGWOOD



SABAL PALM

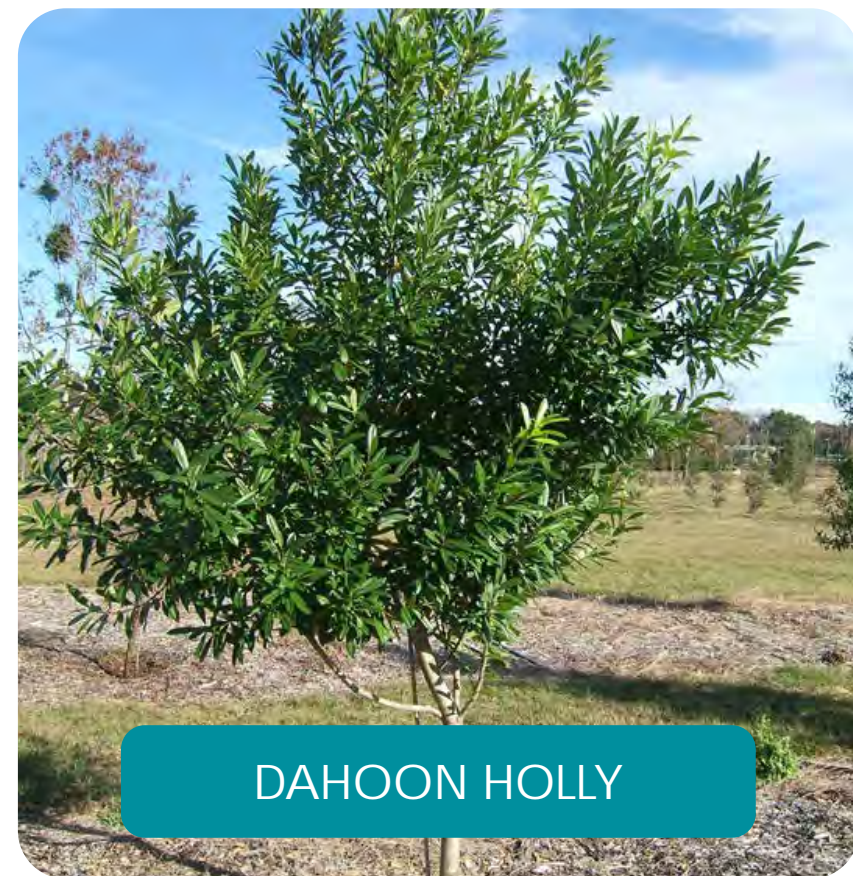
BUFFER SMALL TREE



SILVER BUTTONWOOD



PIGEON PLUM



DAHOON HOLLY



PARADISE TREE



PAUROTIS PALM



KEY THATCH PALM

BUFFER SHRUB



COCOPLUM



FIREBUSH



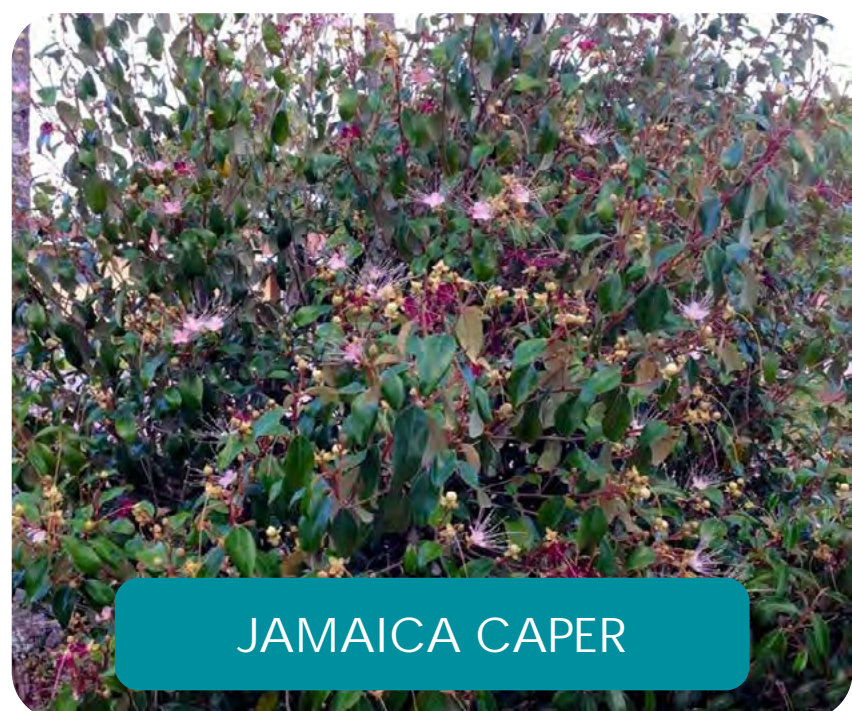
SIMPSON STOPPER



MYRSINE



BAY CEDAR



JAMAICA CAPER

GROUNDCOVERS



SEA OXEYE DAISY



HORIZONTAL COCOPLUM



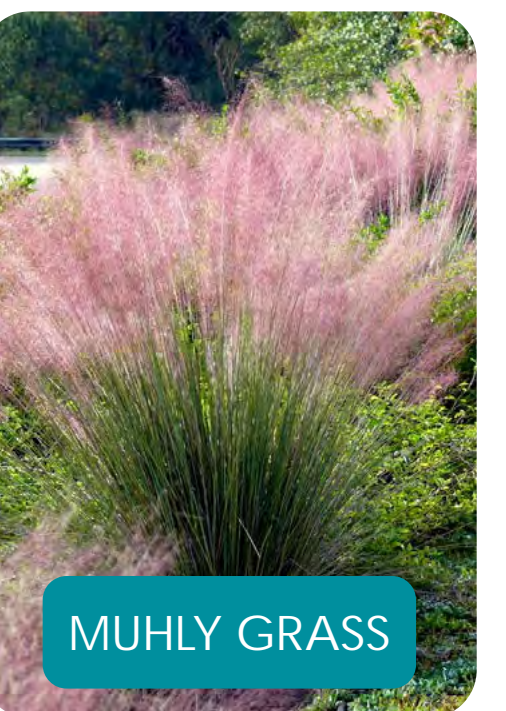
GOLDEN CREEPER



PURPLE LOVE GRASS



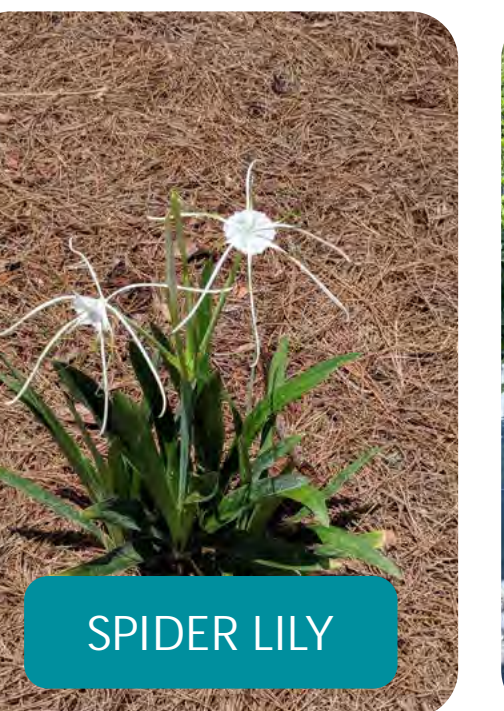
SHORT SPARTINA



MUHLY GRASS



BLUE PORTERWEED



SPIDER LILY



WILD COFFEE



FLORIDA COONTIE

12/20/2023 5:00 PM



COASTAL VISTA
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2410 PALM RIDGE ROAD
SANIBEL ISLAND, FL 33957
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INFO@COASTALVISTADESIGN.COM

SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
Sanibel, FL 33957

PLANT PALETTE

Primary Issue Date: 09/11/2023
PLAN REVISIONS:

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03	100% CD Set	12/22/2023

LEIGH A. GEVELINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-5

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SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
 Sanibel, FL 33957

CONCEPT IMAGES

Primary Issue Date: 09/11/2023
 PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
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03	100% CD Set	12/22/2023

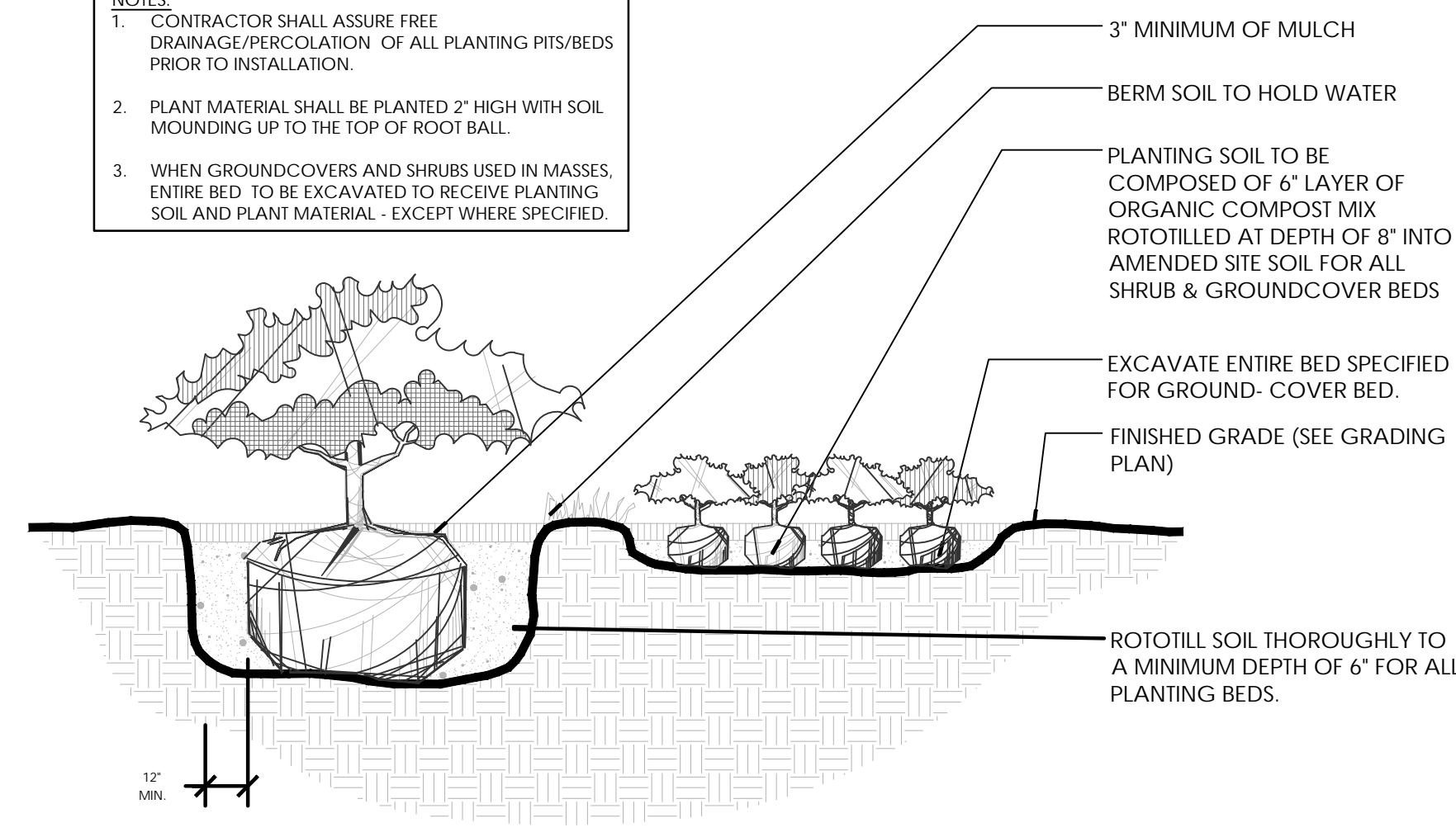
LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-6

FOR PERMITTING & FOR BID ONLY. NOT FOR CONSTRUCTION.

- NOTES:**
- CONTRACTOR SHALL ASSURE FREE DRAINAGE/PERCOLATION OF ALL PLANTING PITS/BEDS PRIOR TO INSTALLATION.
 - PLANT MATERIAL SHALL BE PLANTED 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOT BALL.
 - WHEN GROUND COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE EXCAVATED TO RECEIVE PLANTING SOIL AND PLANT MATERIAL - EXCEPT WHERE SPECIFIED.



NOTE: ORGANIC COMPOST MIX PER SPECS

A SHRUB & GROUND COVER INSTALLATION
LP-7 N.T.S.

IMPORTANT: VEGETATION IMPACTS

- VEGETATION IMPACTS SHOWN DO NOT ACCOUNT FOR POSSIBLE FUTURE GRADING AND DRAINAGE IMPACTS ON SITE OR FOR ANY UNDERGROUND UTILITY WORK.
- ALL SITE GRADING & DRAINAGE SHALL MEANDER AROUND EXISTING AND RELOCATED VEGETATION.

IMPORTANT:

- REFER TO ENGINEERING PLANS FOR DRAINAGE & SITE GRADING INFORMATION.
- PLANTINGS WITHIN THE DETENTION AREA SHALL BE APPROPRIATE FOR PERIODS OF INUNDATION.

IMPORTANT: CONTRACTOR

- LANDSCAPE CONTRACTOR RESPONSIBLE FOR CALLING SUNSHINE 811 NO CUTS 811 or (800) 432-4770 PRIOR TO BEGINNING WORK. ALL MARKINGS MUST BE COMPLETE AND VISIBLE ON GROUND PRIOR TO ANY EXCAVATION WORK.
- LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFYING ALL QUANTITIES OF NATIVES TO BE PRESERVED ON SITE AND FOR VERIFYING THE QUANTITY AND EXTENT OF EXOTICS TO BE REMOVED FROM SITE PRIOR TO BIDDING OR BEGINNING SITE WORK.
- LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING NATIVE/ PROTECTED SPECIES ON SITE AND TAKING NECESSARY MEASURES TO PROTECT OR RELOCATE AND PRESERVE EXISTING NATIVES.
- LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFYING SCALE AND ACCURACY EXISTING VEGETATION PLANS AND FOR NOTIFYING GENERAL CONTRACTOR, OWNER OR OWNERS AGENT OF ANY CONFLICTS.
- ALL EXISTING NATIVE VEGETATION ON SITE IS TO REMAIN IN EXISTING LOCATION UNLESS OTHERWISE SPECIFIED ON PLANS.

PRESERVATION OF NATIVES ON SITE

- ALL NATIVES TO REMAIN IN PLACE ON SITE SHALL BE PROTECTED BY SITE CONSTRUCTION ACTIVITIES BY ORANGE CONSTRUCTION FENCE.
- ANY NATIVES SHOWN TO REMAIN IN PLACE, BUT DETERMINED TO BE IMPACTED BY SITE CONSTRUCTION ACTIVITIES SHALL BE RELOCATED TO THE VEGETATION RECEPTOR AREA.
- A CITY OF SANIBEL VEGETATION PERMIT IS REQUIRED FOR RELOCATION AND REMOVAL OF ANY NATIVE VEGETATION ON SITE.
- A VEGETATION RECEPTOR AREA IS REQUIRED FOR RELOCATED NATIVE VEGETATION. THE RECEPTOR AREA MUST BE PROTECTED BY ORANGE CONSTRUCTION FENCE AND BY SILT FENCE. TEMPORARY IRRIGATION IN VEGETATION RECEPTOR AREA IS REQUIRED FOR A MINIMUM OF 60 DAYS FOR ESTABLISHMENT OF RELOCATED VEGETATION.
- ALL NATIVES TO BE RELOCATED ON SITE SHALL BE MARKED WITH COLORED ENGINEER TAPE TO BE DISTINGUISHED FROM OTHER NON-TRANSPLANTED VEGETATION. THE TAPE MUST REMAIN ON THE TRANSPLANTED VEGETATION UNTIL THE TREES ARE TRANSPLANTED TO FINAL SITE LOCATIONS AND INSPECTION IS COMPLETED BY STATE OF FL DEP AND BY CITY OF SANIBEL PLANNING AND NATURAL RESOURCES DEPARTMENTS.

INVASIVE EXOTIC REMOVAL:

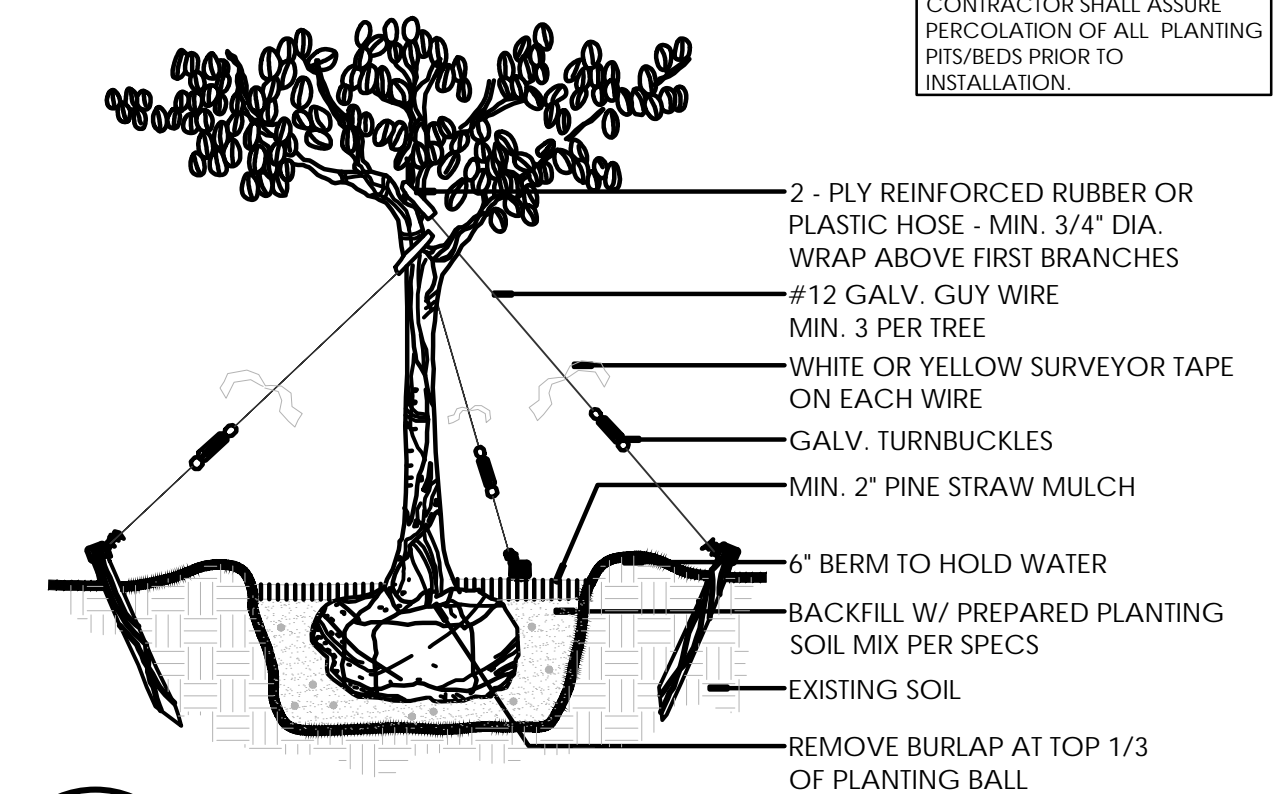
- REMOVAL OF ALL SANIBEL 8 INVASIVE EXOTICS AS PER CITY OF SANIBEL VEGETATION CODE, SEC. 122-123 OF THE SANIBEL FL CODE OF ORDINANCES.
- SITE IS REQUIRED TO BE FREE OF ALL SANIBEL 8 INVASIVE EXOTICS FOR FINAL INSPECTION. SITE SHALL BE MAINTAINED FREE OF SANIBEL 8 INVASIVE EXOTICS INDEFINITELY.
- INVASIVE EXOTICS INCLUDE ALL BRAZILIAN PEPPER (*Schinus terebinthifolius*), ALL MELALEUCA (*Melaleuca quinquenervia*), EARLEAF ACACIA (*Acacia auriculiformis*), LEAD TREE (*Leucaena leucocephala*), JAVA PLUM (*Syzygium cumini*), AIR POTATO (*Dioscorea bulbifera*), EXOTIC INKBERRY (*Scaevola frutescens*, *Scaevola sericea*) AND MOTHER-IN-LAW'S TONGUE/BOWSTRING HEMP (*Sansevieria hyacinthoides*)

SEC. 122-191 - REMOVAL REQUIRED- AUTHORITY

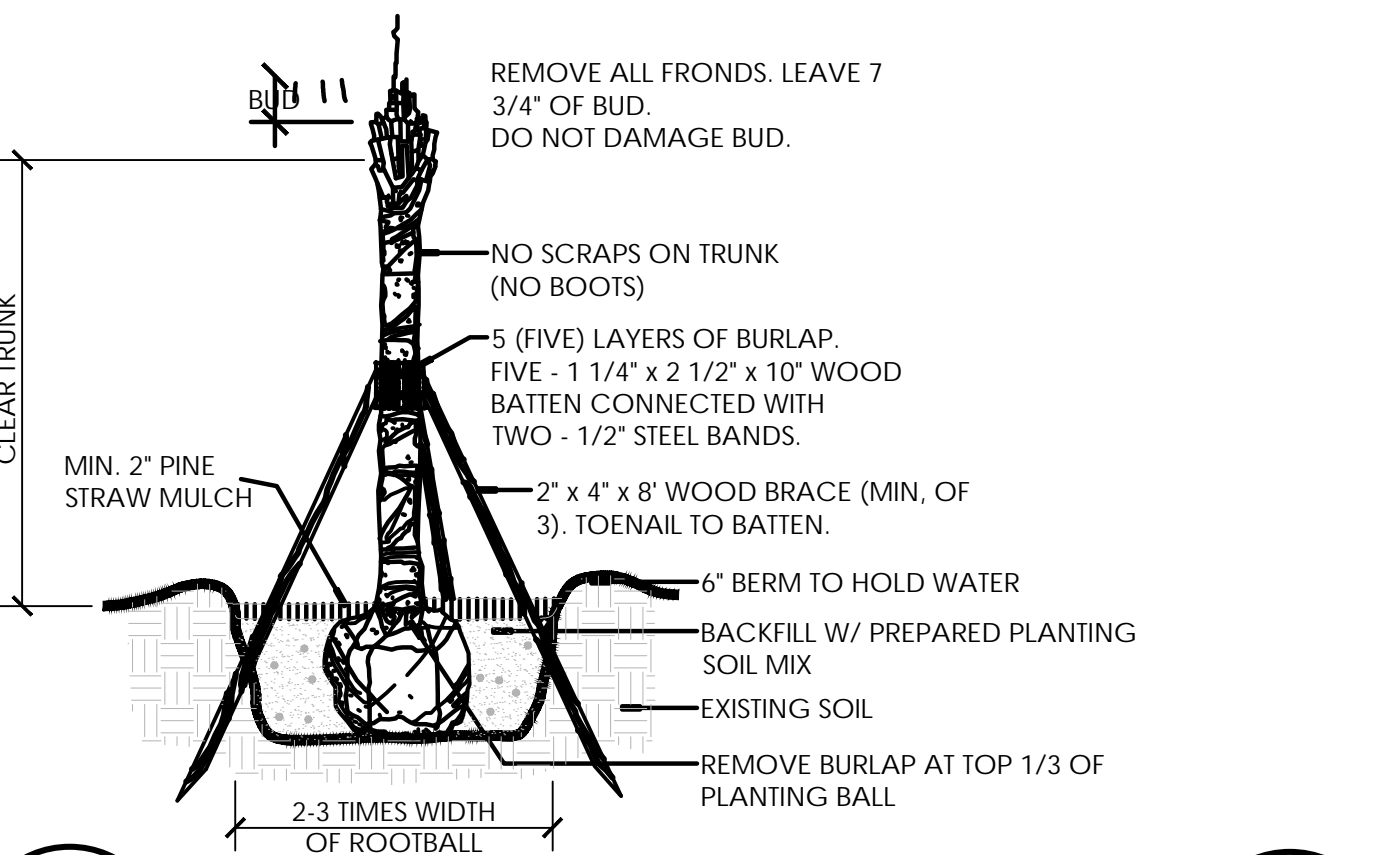
BRAZILIAN PEPPER, MELALEUCA AND OTHER INVASIVE EXOTIC VEGETATION HAVE BEEN DETERMINED TO BE UNDESIRABLE SPECIES WHICH OBTAIN PERMITS OR OTHERWISE DISPLACE NATIVE VEGETATION. SECTION 38-1 PROHIBITS THE PLANTING OR TRANSPLANTING OF:

BRAZILIAN PEPPER (SCHINUS TEREBINTHIFOLIUS)
EARLEAF ACACIA (ACACIA AURICULIFORMIS)
JAVA PLUM (SYZYGIUM CUMINI)
EXOTIC INKBERRY (SCAEVOLA FRUTESCENS OR SCAEVOLA SERICEA)
LEAD TREE (LEUCAENA LEUCOCEPHALA)
MOTHER-IN-LAWS TONGUE/BOWSTRING HEMP (SANSEVERIA HYACINTHOIDES)
AIR POTATO (DIOSCOREA BULBIFERA)

WITHIN THE BOUNDARIES OF THE CITY, SUBSECTION 82-382(12)E REQUIRES THAT THE VEGETATION PLAN SUBMITTED WITH A DEVELOPMENT PERMIT APPLICATION, EXCEPT FOR MINOR IMPROVEMENTS AS DEFINED IN CHAPTER 122, VEGETATION, IDENTIFY THE INVASIVE EXOTIC VEGETATION LOCATED ON THE PARCEL PROPOSED FOR DEVELOPMENT AND INCLUDE A PLAN FOR THE REMOVAL OF THE ABOVE LISTED EXOTICS.

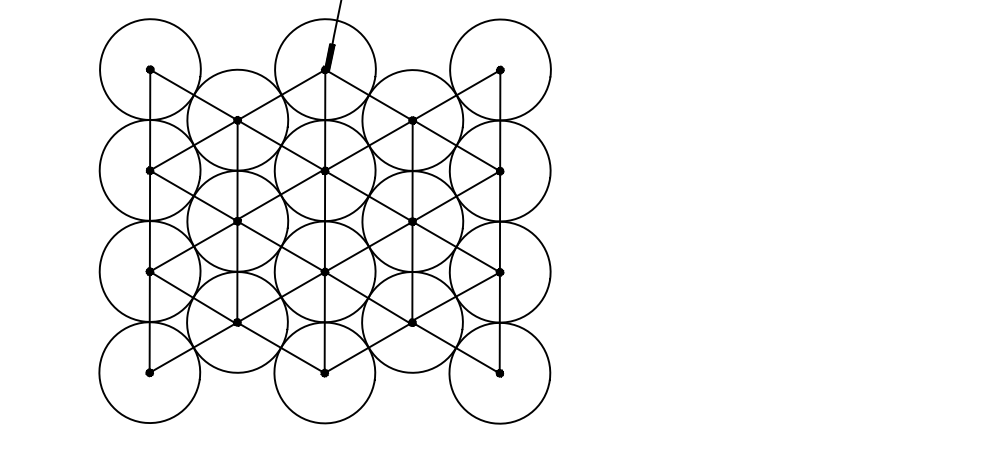


B LARGE TREE TYPICAL PLANTING DETAIL
LP-7 N.T.S.



C SABAL PALM PLANTING DETAIL
LP-7 N.T.S.

ALL PLANT MATERIAL TO BE TRIANGULAR SPACING UNLESS OTHERWISE INDICATED. ON CENTER SPACING VARIES. SEE PLANT LIST FOR SPECIFICATIONS.

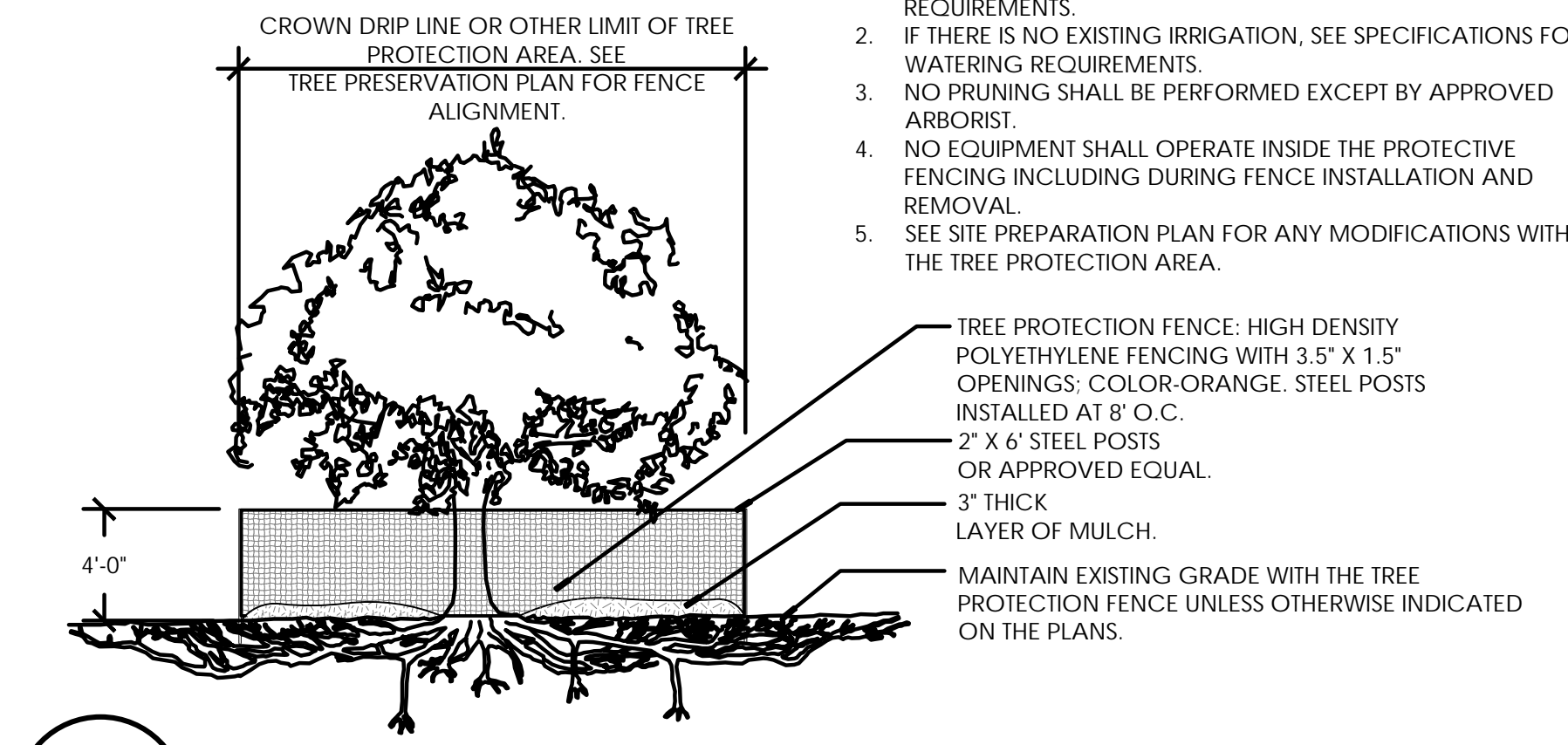


D TRIANGLE PLANT SPACING DETAIL
LP-7 N.T.S.

A SHRUB & GROUND COVER INSTALLATION
LP-7 N.T.S.

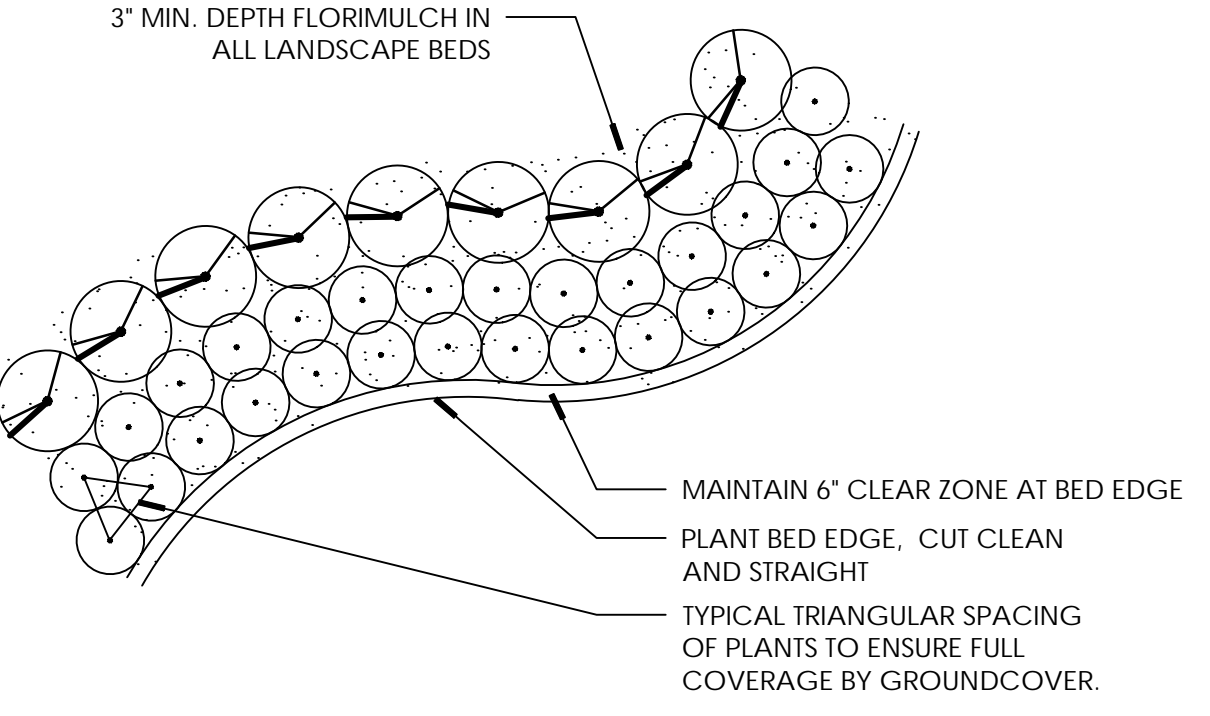
WILDLIFE PROTECTION:

A WILDLIFE MANAGEMENT PLAN WAS NOT REQUIRED FOR THIS SITE. ALL PROTECTED WILDLIFE TO BE PRESERVED FOLLOWING CITY OF SANIBEL AND STATE OF FLORIDA GUIDELINES. PROTECTED WILDLIFE INCLUDES NESTING BIRDS, BALD EAGLES, OSPREY, GOPHER TORTOISES, AND SEA TURTLE NESTS. REPORT SIGHTINGS OF POTENTIAL WILDLIFE OR ACTIVE NESTS/DENS/BURROWS TO LANDSCAPE ARCHITECT.



E VEGETATION PROTECTION FENCE
LP-7 N.T.S.

- NOTES:**
- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 - IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
 - NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 - NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCINGS INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 - SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.



F TYPICAL PLANT BED DETAIL
LP-7 N.T.S.

INSTALLATION NOTES:

PLANTING LAYOUT:

- LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL TREES, PALMS, SPECIMEN PLANT LOCATIONS, CODE REQUIRED BUFFERS AND GENERAL PLANT MATERIAL PRIOR TO BEGINNING INSTALLATION. LANDSCAPE ARCHITECT SHALL REVIEW AND APPROVE PRIOR TO INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- SHRUB AND GROUND COVER PLANTINGS ARE SHOWN AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING). REFER TO THE PLANT LIST FOR ON CENTER PLANT SPACING (O.C.).
- PROVIDE A MINIMUM VERTICAL CLEARANCE ON ALL TREES OF 8.5' ABOVE SIDEWALKS/CART PATHS.
- PROVIDE A MINIMUM HORIZONTAL OFFSET DISTANCE OF 2.5' FROM THE BACK OF CURB TO THE FUTURE MAXIMUM TRUNK DIAMETER OF PLANTED TREES.
- ALL SHRUB BEDLINE AREA DEFINITIONS TO BE REVIEWED IN THE FIELD WITH THE LANDSCAPE ARCHITECT. UNAPPROVED BEDLINES WILL BE REJECTED. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO REMEDY ALL DAMAGES AND MODIFICATIONS REQUIRED TO CORRECT THE AREAS.

PLANTING:

- ALL PLANT MATERIAL SHALL BE INSTALLED IN A SOUND, WORKMANLIKE MANNER AND ACCORDING TO ACCEPTED GOOD PLANTING PROCEDURES. ALL ELEMENTS OF LANDSCAPING SHALL BE INSTALLED SO AS TO MEET ALL APPLICABLE ORDINANCES AND CODE REQUIREMENTS.
- CONTRACTOR SHALL ENSURE DRAINAGE AND PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS LOST DUE TO INADEQUATE DRAINAGE CONDITIONS.
- TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY WHEN INSTALLED.
- BALLED AND BURLAPPED OR ANY BASKETED MATERIAL SHALL HAVE THE TOP ONE HALF (1/2) OF THE BURLAP AROUND THE BASE OF THE TRUNK CUT AND PULLED BACK. DO NOT REMOVE BURLAP. ALL WIRE CAGES, TREE STRAPS, AND SURVEY TAPE ETC. MUST BE CUT AND REMOVED PRIOR TO INSTALLATION. ANY & ALL PLASTIC WRAPPING ROOT BALL MUST BE REMOVED.
- CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE WEEK (5 BUSINESS DAYS) OF NOTICE.
- LANDSCAPE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND THE PROJECT MANUAL AND/OR SPECIFICATIONS FOR FURTHER AND COMPLETE LANDSCAPE ARCHITECT OF ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION OR INSTALLATION.
- THE LANDSCAPE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND THE PROJECT MANUAL AND/OR SPECIFICATIONS FOR FURTHER AND COMPLETE LANDSCAPE PLANTING INSTRUCTIONS.
- THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION WATERING AND/OR RAINFALL. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION.
- THE LANDSCAPE CONTRACTOR SHALL RE-GRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK. THE LANDSCAPE CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED DURING LANDSCAPE SITE PREPARATION AND INSTALLATION ACTIVITIES.
- PROPER GUYING AND TREE STAKING PRACTICES REQUIRED. NO NAILS, SCREWS, WIRES ETC. SHALL BE PERMITTED TO PENETRATE OUTER SURFACE OF TREES: PINES OR PALMS. TREES, PINES, OR PALMS SUBJECT TO THIS PRACTICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MULCH ALL NEW PLANT MATERIAL THROUGHOUT AND COMPLETELY TO A 3 INCH MINIMUM DEPTH WITH CLEAN, WEED FREE, CLASS A, MULCH, PINE STRAW, OR ROCK MULCH AS SPECIFIED IN THE PLANT LEGEND OR BID FORM. CONTRACTOR RESPONSIBLE FOR VERIFYING ROCK MULCH, WOOD MULCH AND PINE STRAW AREAS ON SITE PRIOR TO INSTALLATION. ALL ROCK MULCH AREAS SHALL HAVE FILTER FABRIC LAID PRIOR TO SPREADING OF ROCK.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE MAINTENANCE OF ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, ETC.) THROUGH THE COURSE OF THE PROJECT AND THROUGHOUT A 90 DAY ESTABLISHMENT PERIOD FOLLOWING NOTICE OF SUBSTANTIAL COMPLETION. THE PROJECT WILL NOT BE ACCEPTED OR DEEMED SUBSTANTIALLY COMPLETE BY ZONES OR PHASES (UNLESS OTHERWISE NOTED ON THE PLANS).

SOIL PREPARATION AND SOIL MIX:

THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC., ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS. PRIOR TO COMMENCEMENT OF THE LANDSCAPE PLANTING WORK, THE CONTRACTOR SHALL PROVIDE COMPLETE SOIL TESTS FOR THE INSTALLATION AREA.

- APPLY ROUNDUP OR APPROVED HERBICIDE EQUAL ACCORDING TO MANUFACTURER'S RATE AND SPECIFICATION WITHIN LIMITS OF ALL AREAS TO BE PLANTED. PROTECT EXISTING PLANTS TO REMAIN FROM OVER SPRAY OR SPRAY WITHIN ROOT ZONE. NO GLYPHOSATE/ROUNDUP APPLICATION WITHIN 10 FT OF GREEN OR SILVER BUTTONWOOD (CONOCARPUS ERECTUS). CONTRACTOR TO ENSURE TOTAL WEED ERADICATION.
- BEFORE REPLACING TOPSOIL, RAKE SUBSOIL SURFACE CLEAR OF STONES (1 INCH DIAMETER AND LARGER), DEBRIS, RUBBISH, DELETERIOUS MATERIALS AND ALL REMAINING CONSTRUCTION DEBRIS TO A DEPTH OF 6". CONTAMINATED SOILS SHALL BE REMOVED AND REPLACED TO THEIR FULL DEPTHS AND EXTENTS. ESTABLISH OR REESTABLISH ROUGH GRADES INSURING POSITIVE FLOWS AND AESTHETIC LANDFORM SHAPES SHOWN IN THE GRADING PLANS.
- SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES ONCE ROUGH GRADE HAS BEEN ESTABLISHED. CONTRACTOR TO APPLY AN APPROVED PRE-EMERGENT HERBICIDE IN ACCORDANCE WITH MANUFACTURER'S RATE AND SPECIFICATIONS.
- PLANTING SOIL MIX FOR TREES, SHRUBS, AND GROUND COVERS SHALL CONSIST OF A THOROUGHLY BLENDED MIXTURE OF:
TREES: 70% CLEAN D.O.T. SAND 30% APPROVED TOPSOIL MIX
PALMS: 80% CLEAN D.O.T. SAND 20% APPROVED TOPSOIL MIX
SHRUBS AND GROUND COVERS: 80% CLEAN D.O.T. SAND 20% APPROVED TOPSOIL MIX
TOPSOIL: 30% APPROVED FLORIDA TOPSOIL 10% APPROVED FLORIDA PEAT 60% APPROVED SAND

PEAT: FEDERAL SPECIFICATIONS Q-P-166 TYPE 1, CLASS B, SPHAGNUM MOSS.
CONTRACTOR TO SUBMIT LABORATORY SOIL TESTS AND ANALYSIS RECOMMENDATIONS FOR ORNAMENTAL LANDSCAPE USE OF ALL SOIL MIXTURES AND NO LESS THAN 4 TESTS OF EXISTING SOILS IN ANY ONE AREA FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.

- TOPSOIL MIX SHALL BE FREE OF DELETERIOUS MATERIALS THAT WOULD BE HARMFUL TO PLANT GROWTH, SHALL BE FREE OF NEMATODES, SHALL BE OF UNIFORM QUALITY AND SHALL HAVE A PH VALUE BETWEEN 5.5 AND 6.5 (AS DETERMINED IN ACCORDANCE WITH ASTM E70). PEAT SHALL BE STERILIZED TO MAKE FREE OF ALL VIABLE NUT GRASS AND OTHER UNDESIRABLE WEEDS.
- TOPSOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE OF UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHALL BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, CLAY, SILTS AND OTHER EXTRANEOUS MATTER. SPREAD TOPSOIL MIXTURE TO MINIMUM DEPTH OF 4 INCHES THROUGHOUT ALL AREAS AND 6 INCHES IN ALL SHRUB AND GROUND COVER BEDS. REMOVE ALL ROCKS AND OTHER OBJECTS OVER 1 INCH IN DIAMETER.
- SMOOTH ALL PREPARED SOIL MIXES TO WITHIN 4 INCHES BELOW TOP OF SURROUNDING PAVEMENT EDGES. CONTRACTOR TO PROVIDE SMOOTH AND UNIFORM DEPTH OF TOPSOIL MIXTURE TO A MINIMUM 12 INCHES BELOW GRADE IN AREAS TO BE SODDED.
- FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ENSURING A MINIMUM 3% POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. TOPSOIL SHALL NOT BE EXTREMELY ACIDIC OR ALKALINE. NOR CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. THE PH SHALL BE CORRECTED PRIOR TO DELIVERY IN THE RANGE OF 6.5 TO 7.5, OR AS APPROVED BY LANDSCAPE ARCHITECT. IF NECESSARY AFTER PLACEMENT THE CONTRACTOR SHALL APPLY APPROPRIATE APPROVED SOIL ADDITIVES ADJUSTING SOIL PH TO ENSURE A PH RANGE OF 6.5 TO 7.5.

SOD INSTALLATION:

ALL SOD SHALL BE 100% SOLID SOD, 99% FREE OF NOXIOUS WEEDS, WITH A 2" THICKNESS OF ROOTS CAPABLE OF HOLDING SAND. SOD SHALL BE FRESHLY CUT WITHIN TWENTY-FOUR (24) HOURS OF LAYING, LAID WITH TIGHTLY-BUTTED JOINTS, AND ROLLED. HAND RAKING SHALL BE DONE AS NECESSARY TO ENSURE PROPER EVEN GRADES AND CLEAR SURFACES FOR SOD.

ALL SOD SHALL BE MEASURED ON THE BASIS OF SQUARE FOOTAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR COVERAGE OF THE SQUARE FOOTAGE SHOWN ON PLANS. THEREFORE, SHRINKAGE OF MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

Call Before You Dig
Call Sunshine State One Call, at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.

IMPORTANT: OVERHEAD POWERLINES
NEW INSTALLED VEGETATION SHALL BE INSTALLED PER CITY OF SANIBEL CODE SEC. 122-168 - PLANTING LIMITATIONS UNDER OVERHEAD POWERLINES: TREES OR SHRUBS THAT EXCEED 20' IN HEIGHT AT MATURITY SHALL NOT BE PLANTED WITHIN TEN FEET EITHER SIDE OF THE VERTICAL PLANE OF THE CENTERLINE OF EXISTING OVERHEAD POWER LINES.

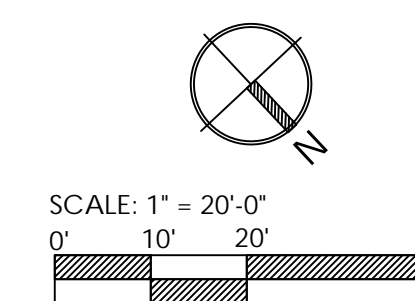
IMPORTANT: UNDERGROUND UTILITIES
ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SEWER UTILITIES.

NOTE:
ALL PROPOSED VEGETATION TO BE 3:1 SANIBEL NATIVE TO EXOTIC IN ALL CATEGORIES (TREE, SHRUBS, GROUND COVER)

Primary Issue Date: 09/11/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023

SANIBEL FIRE STATION
5171 SANIBEL CAPTIVA ROAD
SANIBEL, FL 33957
PROPOSED IRRIGATION PLAN



PRIMARY ISSUE DATE: 11/10/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% DC Set	10/20/2023
02	90% DC Set	11/10/2023
03	100% DC Set	12/22/2023

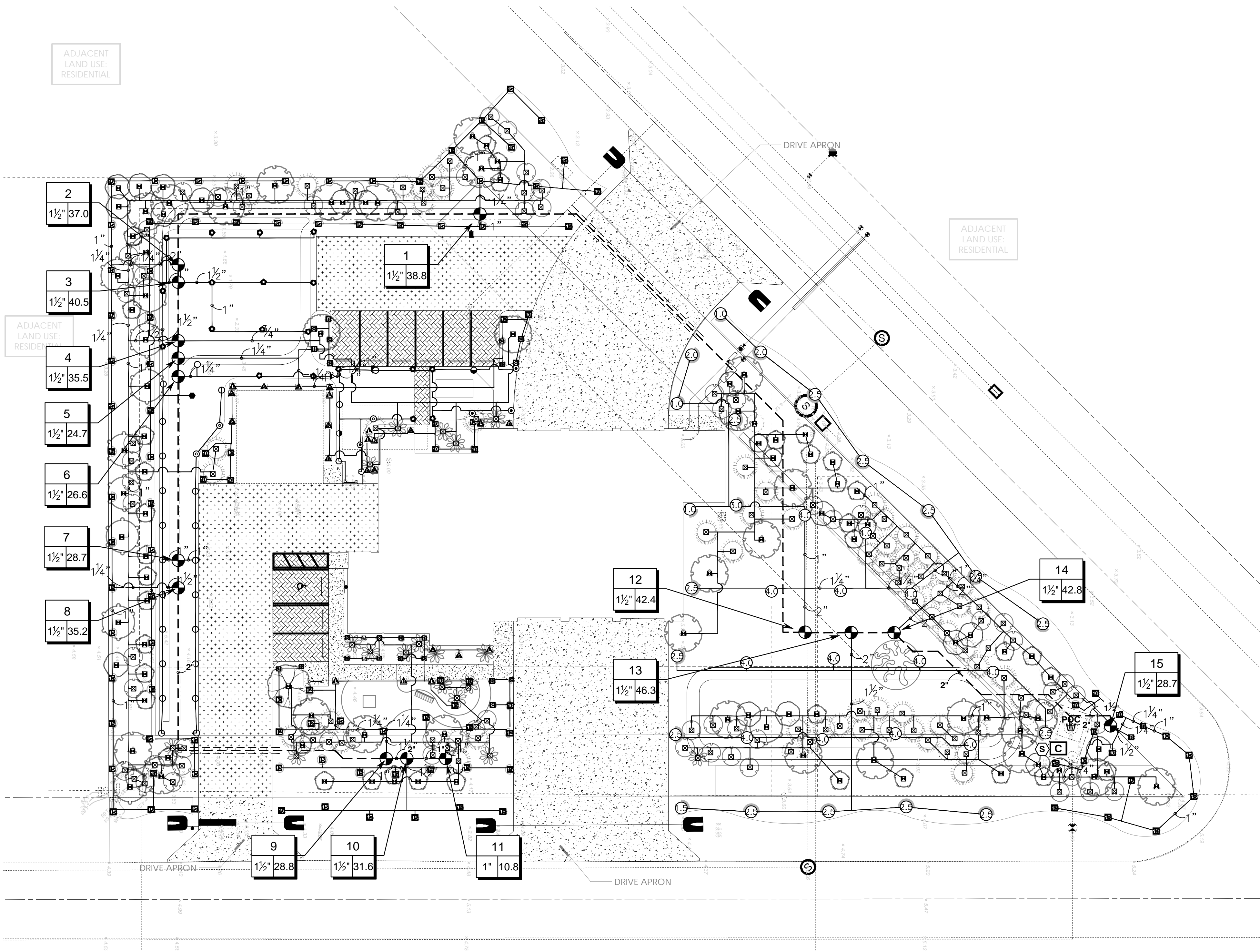
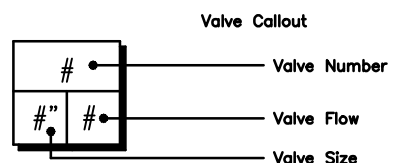
LEIGH A. GEVINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: IR-1

FOR PERMITTING AND FOR BID ONLY. NOT FOR CONSTRUCTION.

IRRIGATION SCHEDULE					
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
▲ ▲ ▲ ▲ ▲ EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	1	30		
▲ ▲ ▲ ▲ ▲ Q H F	Rain Bird 1806 5 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	2	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1806 8 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	2	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1806 10 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	2	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1806 12 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	23	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1806 15 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	1	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1806 ADJ Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet.	26	30		
▲ ▲ ▲ ▲ ▲ EST LCS RCS CST SST	Rain Bird 1812-NP 15 Strip Series Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	23	30		
▲ ▲ ▲ ▲ ▲ Q H F	Rain Bird 1812-NP 5 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	2	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1812-NP 8 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	14	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1812-NP 10 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	13	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1812-NP 12 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	4	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1812-NP 15 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	55	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1812-NP ADJ Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal, Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	46	30		
▲ ▲ ▲ ▲ ▲ Q T H F	Rain Bird 1800-1400 Flood Fixed flow rate 0.25 GPM - 2.0 GPM, full circle bubbler, 1/2in. FIPT.	253	20		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
⊙	Hunter PGJ-12-V 1.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	3	30	0.85	18'
⊙	Hunter PGJ-12-V 1.5 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	1	30	1.3	21'
⊙	Hunter PGJ-12-V 2.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	2	30	1.7	24'
⊙	Hunter PGJ-12-V 2.5 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	14	30	2.2	27'
⊙	Hunter PGJ-12-V 3.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	1	30	2.5	30'
⊙	Hunter PGJ-12-V 4.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	13	30	3.7	33'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
⊙	Rain Bird PESB 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability. Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	15			
⊙	Rain Bird ESPLXME2 w/ (1) ESPLXMSM12 24 Station, Traditionally-Wired, Commercial Controller. (1) ESPLXME2 12-Station, Indoor/Outdoor, Plastic Wall-Mount Enclosure w/ (1) ESPLXMSM12 - 12-Station Expansion Modules.	1			
⊙	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.	1			
POC	Point of Connection 5' Deep well with Submersible Pump To include VFD, backflow and filtration	1			
---	Irrigation Lateral Line: PVC Class 200 SDR 21	5,586 l.f.			
---	Irrigation Mainline: PVC Schedule 40	675.1 l.f.			
=====	Pipe Sleeve: PVC Schedule 40	88.7 l.f.			



VALVE SCHEDULE								
NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird PESB	1-1/2"	Shrub Spray	38.79	308.8	35.0	38.8	1.49 in/h
2	Rain Bird PESB	1-1/2"	Shrub Spray	36.96	422.6	35.4	40.2	1.48 in/h
3	Rain Bird PESB	1-1/2"	Turf Spray	40.52	428.2	34.9	40.6	1.51 in/h
4	Rain Bird PESB	1-1/2"	Bubbler	35.5	447.1	28.4	33.0	1.33 in/h
5	Rain Bird PESB	1-1/2"	Shrub Spray	24.72	452.7	36.3	38.8	2.4 in/h
6	Rain Bird PESB	1-1/2"	Turf Spray	26.58	458.6	36.2	39.0	1.23 in/h
7	Rain Bird PESB	1-1/2"	Turf Spray	28.66	518.0	34.9	38.5	1.55 in/h
8	Rain Bird PESB	1-1/2"	Shrub Spray	35.22	526.9	36.7	42.2	1.56 in/h
9	Rain Bird PESB	1-1/2"	Shrub Spray	28.8	647.6	36.1	40.7	1.34 in/h
10	Rain Bird PESB	1-1/2"	Shrub Spray	31.6	654.3	34.5	40.1	1.31 in/h
11	Rain Bird PESB	1"	Bubbler	10.75	666.8	22.4	23.6	1.21 in/h
12	Rain Bird PESB	1-1/2"	Shrub Rotor	42.35	107.9	36.8	38.3	0.77 in/h
13	Rain Bird PESB	1-1/2"	Shrub Rotor	46.3	93.0	35.7	37.2	0.63 in/h
14	Rain Bird PESB	1-1/2"	Bubbler	42.75	79.1	29.0	30.1	1.23 in/h
15	Rain Bird PESB	1-1/2"	Shrub Spray	28.69	27.7	35.8	36.3	1.45 in/h
	Common Wire				675.1			

WATERING SCHEDULE								
NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY	
1	Rain Bird PESB	Shrub Spray	1.49 in/h	1	41	1,590		
2	Rain Bird PESB	Shrub Spray	1.48 in/h	1	41	1,516		
3	Rain Bird PESB	Turf Spray	1.51 in/h	1.25	50	2,026		
4	Rain Bird PESB	Bubbler	1.33 in/h	1	46	1,633		
5	Rain Bird PESB	Shrub Spray	2.4 in/h	1	25	618		
6	Rain Bird PESB	Turf Spray	1.23 in/h	1.25	61	1,621		
7	Rain Bird PESB	Turf Spray	1.55 in/h	1.25	49	1,404		
8	Rain Bird PESB	Shrub Spray	1.56 in/h	1	39	1,374		
9	Rain Bird PESB	Shrub Spray	1.34 in/h	1	45	1,296		
10	Rain Bird PESB	Shrub Spray	1.31 in/h	1	46	1,454		
11	Rain Bird PESB	Bubbler	1.21 in/h	1	50	538		
12	Rain Bird PESB	Shrub Rotor	0.77 in/h	1	78	3,303		
13	Rain Bird PESB	Shrub Rotor	0.63 in/h	1	96	4,445		
14	Rain Bird PESB	Bubbler	1.23 in/h	1	49	2,095		
15	Rain Bird PESB	Shrub Spray	1.45 in/h	1	42	1,205		
		TOTALS:			758	26,117		

GENERAL NOTES:

- Irrigation system design requirements: See Critical Analysis IR-2. The irrigation Contractor shall verify the available GPM and PSI prior to installation of the system.
- Do not willfully install the irrigation as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example: obstructions, grade differences, water levels dimensional differences, etc. Refer to the landscape plan to avoid conflicts with proposed trees or shrubs.
- Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings, outside property lines, under pavement, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, green areas.
- Pipe sizes shall conform to those on the drawing. Substituting with smaller pipe sizes will not be permitted.
- If required the Irrigation Contractor shall provide the necessary Right of Way use permits.
- Mainline to be installed with a minimum of 18" depth of cover, lateral lines are to be installed with a minimum of 12" depth of cover.
- Unless otherwise indicated all sleeves are to be PVC Sch 40 and at least two (2) nominal sizes larger than the pipe to be sleeved.
- Wherever practical, install valves in mulched beds and/or out of high traffic areas. all valves, flush valves and wire splices shall be installed in Carson valve boxes as follows: Remote control valves in 12" standard rectangular box and wire splices in 10" round valve box.
- All 24 volt control wire to be UL listed 14 Gauge single strand.
- All wire connections to be King sealed wire Connectors.
- All pop up sprinkler heads shall be installed level and flush to grade. Mount all heads and bubblers on 18" of flexible PVC.
- The rain shut off device shall be installed to meet local codes and/or minimum manufacturer's recommendations.
- The irrigation contractor shall prepare an AS-BUILT drawing on reproducible paper showing all main line piping, control wires and valves by showing exact measurements from hard surfaces.
- The owner will supply power to the irrigation controller.
- Any other equipment required that is not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- All heads, bubblers, valves, drip tubing, valve boxes and pipe on reclaim systems will be properly marked as such. All reclaim pipe bubblers and valve boxes will be purple in color, all electric valves will have purple tags and handles and all heads will have purple tops or purple snap on covers.
- Velocity not to exceed 5' per second.

CRITICAL ANALYSIS

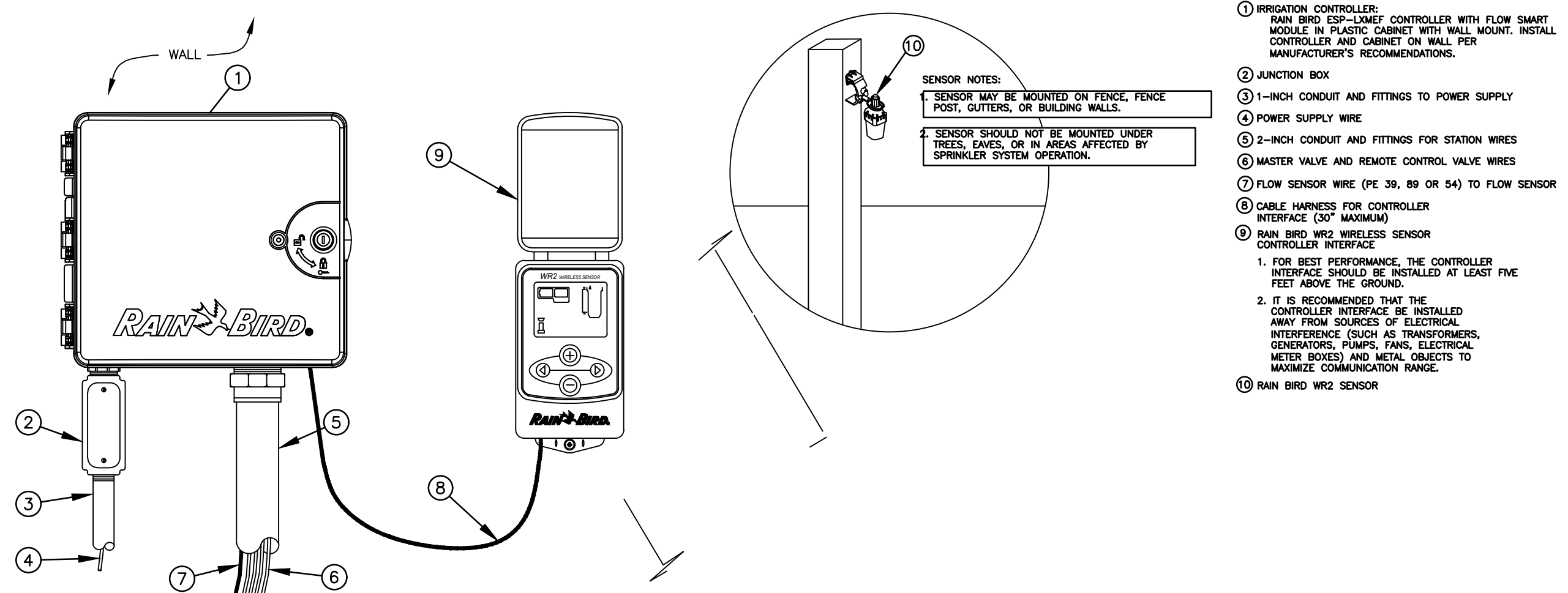
Generated: 2023-11-07 17:27
 P.O.C. NUMBER: 01
 Water Source Information: 5" Deep well with Submersible Pump
 To include VFD, backflow and filtration

FLOW AVAILABLE
 Custom Max Flow: 50 GPM
 Flow Available: 50 GPM

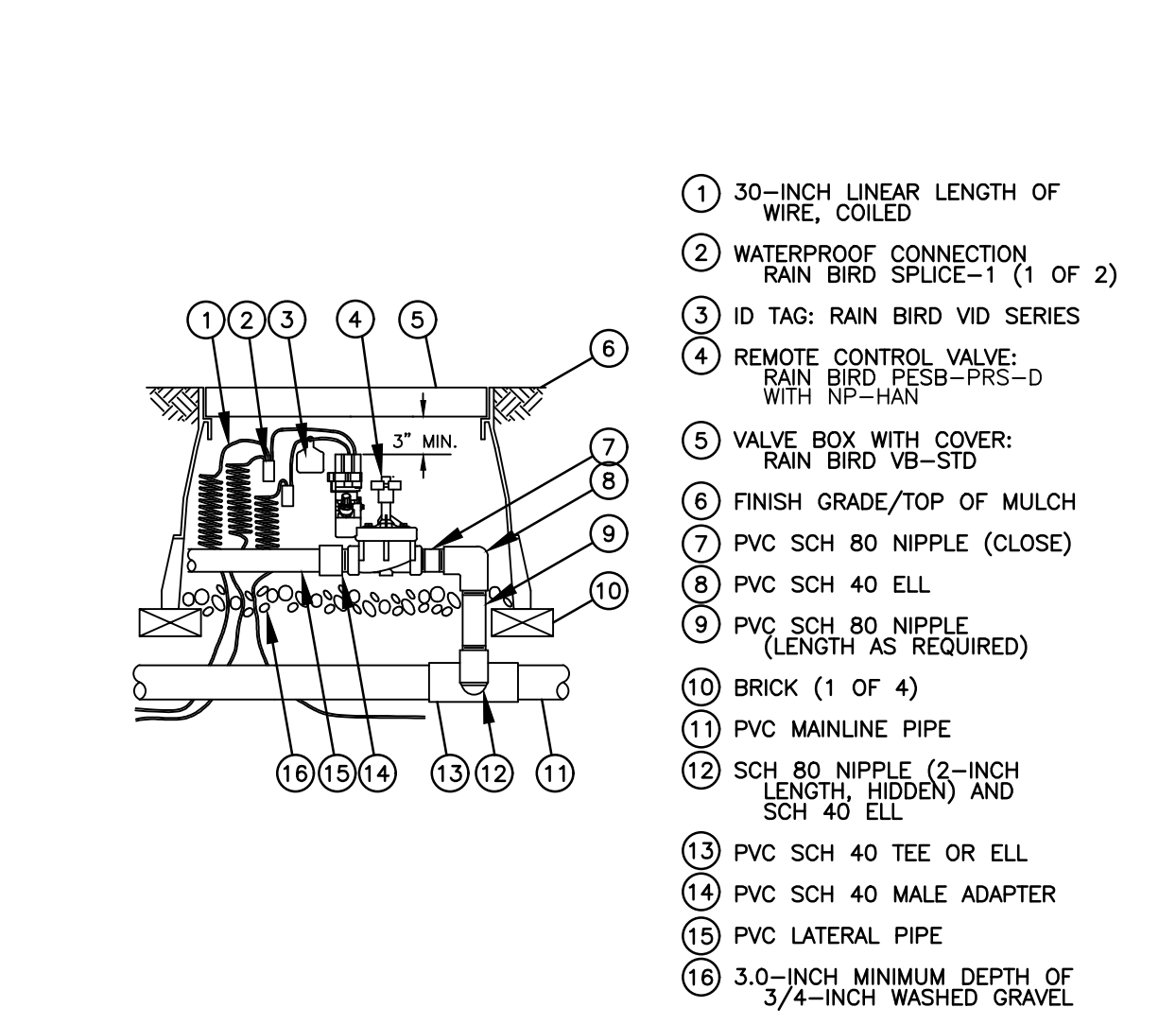
PRESSURE AVAILABLE
 Static Pressure at POC: 50 PSI
 Pressure Available: 50 PSI

DESIGN ANALYSIS
 Maximum Station Flow: 46.3 GPM
 Flow Available at POC: 50 GPM
 Residual Flow Available: 3.7 GPM

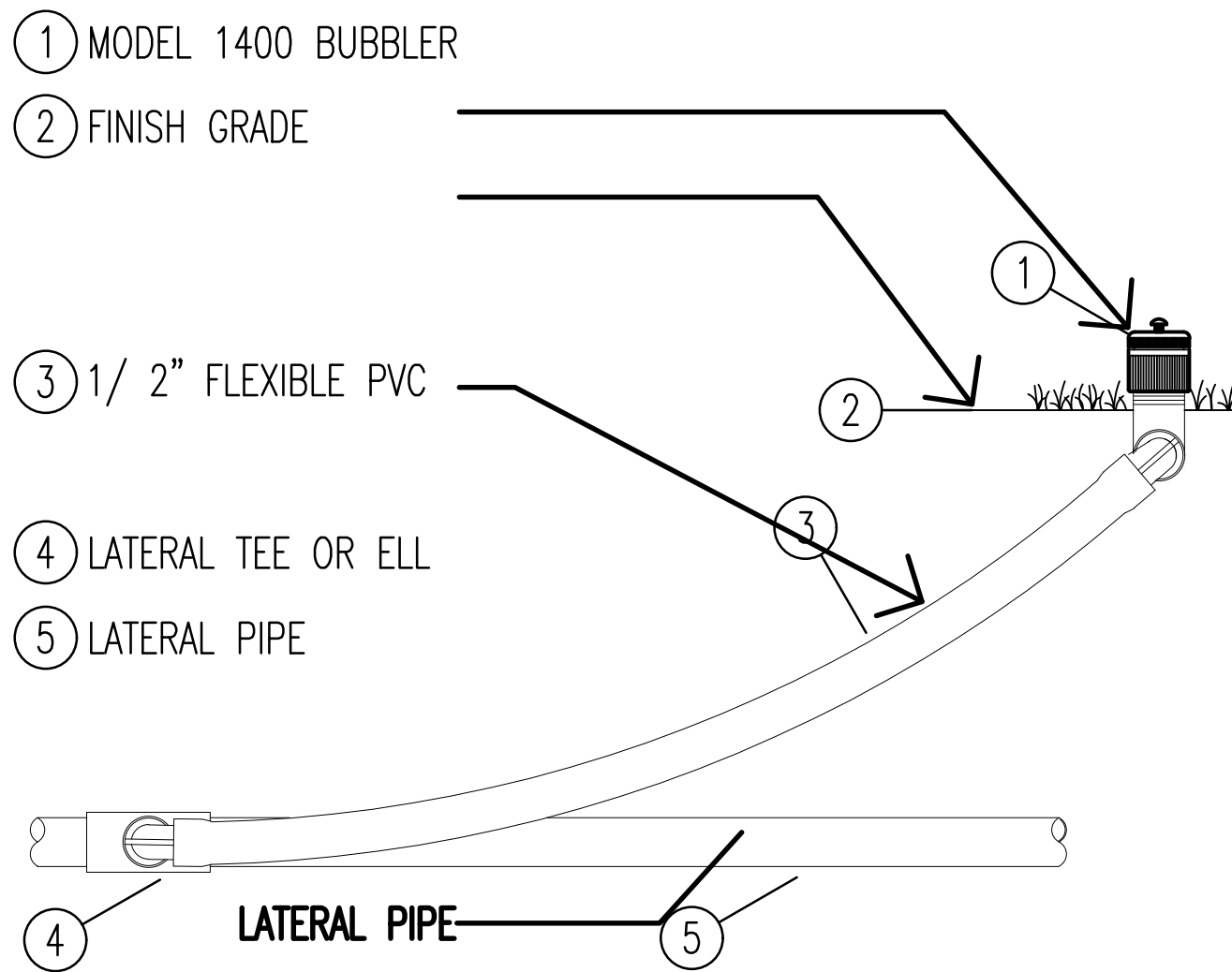
Critical Station: 8
 Design Pressure: 30 PSI
 Friction Loss: 2.9 PSI
 Fittings Loss: 0.29 PSI
 Elevation Loss: 0 PSI
 Loss through Valve: 3.55 PSI
 Pressure Req. at Critical Station: 36.7 PSI
 Loss for Fittings: 0.49 PSI
 Loss for Main Line: 4.93 PSI
 Loss for POC to Valve Elevation: 0 PSI
 Loss for Backflow: 0 PSI
 Critical Station Pressure at POC: 42.2 PSI
 Pressure Available: 50 PSI
 Residual Pressure Available: 7.85 PSI



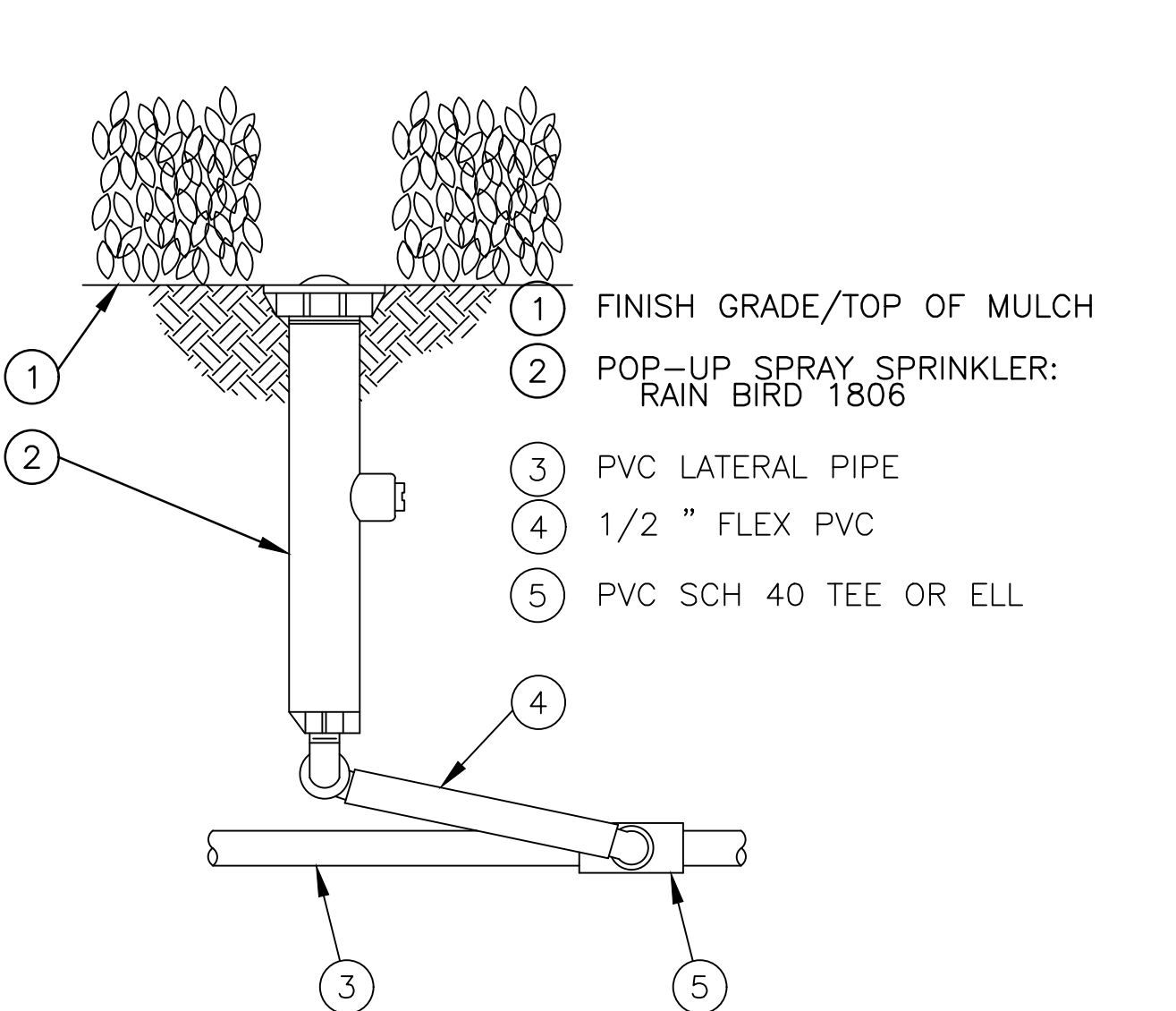
1 RAINBIRD ESP WITH WIRELESS SENSOR
 1" = 1" P-RE-RAI-11



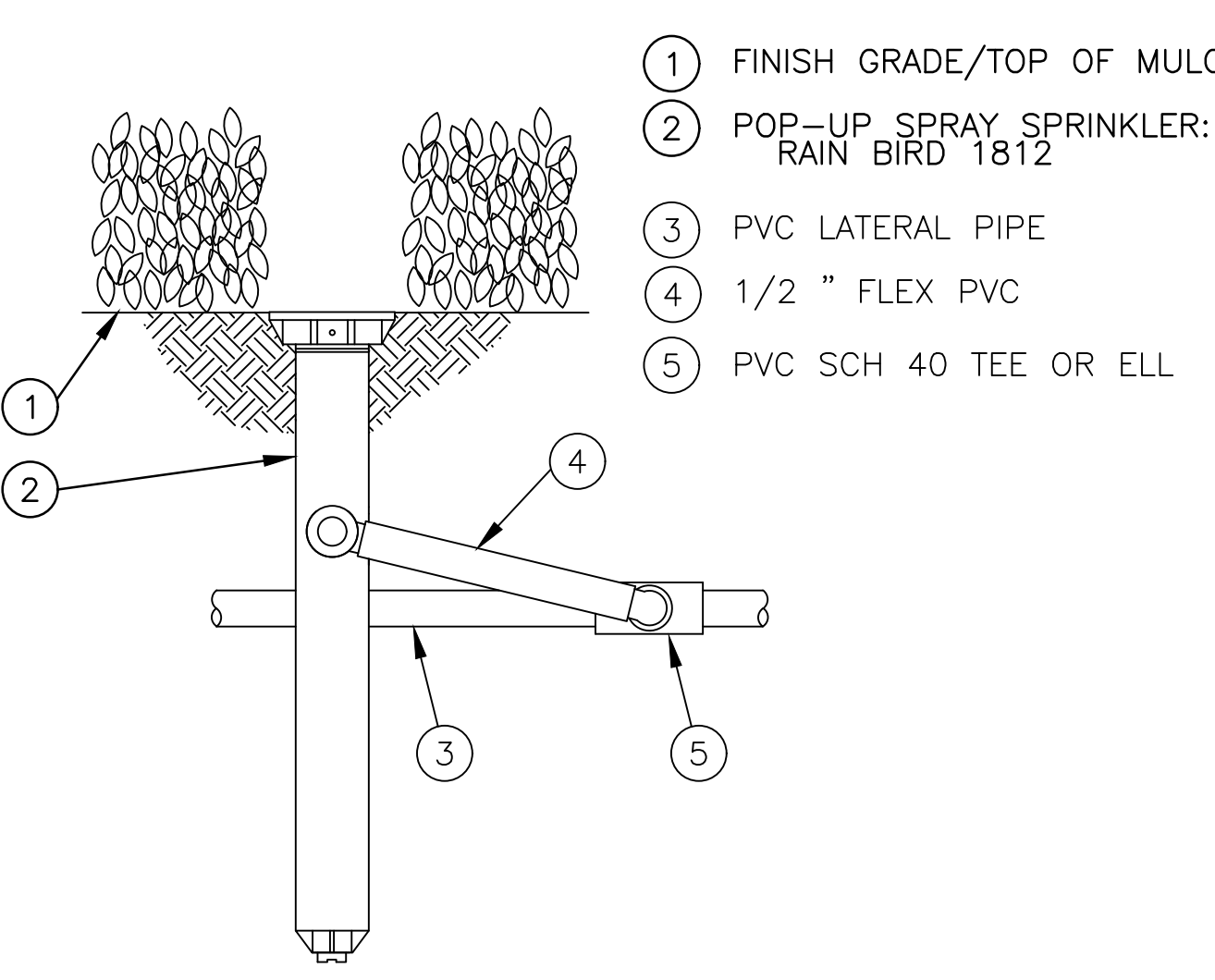
2 RAINBIRD PESB
 1" = 1" P-RE-RAI-01



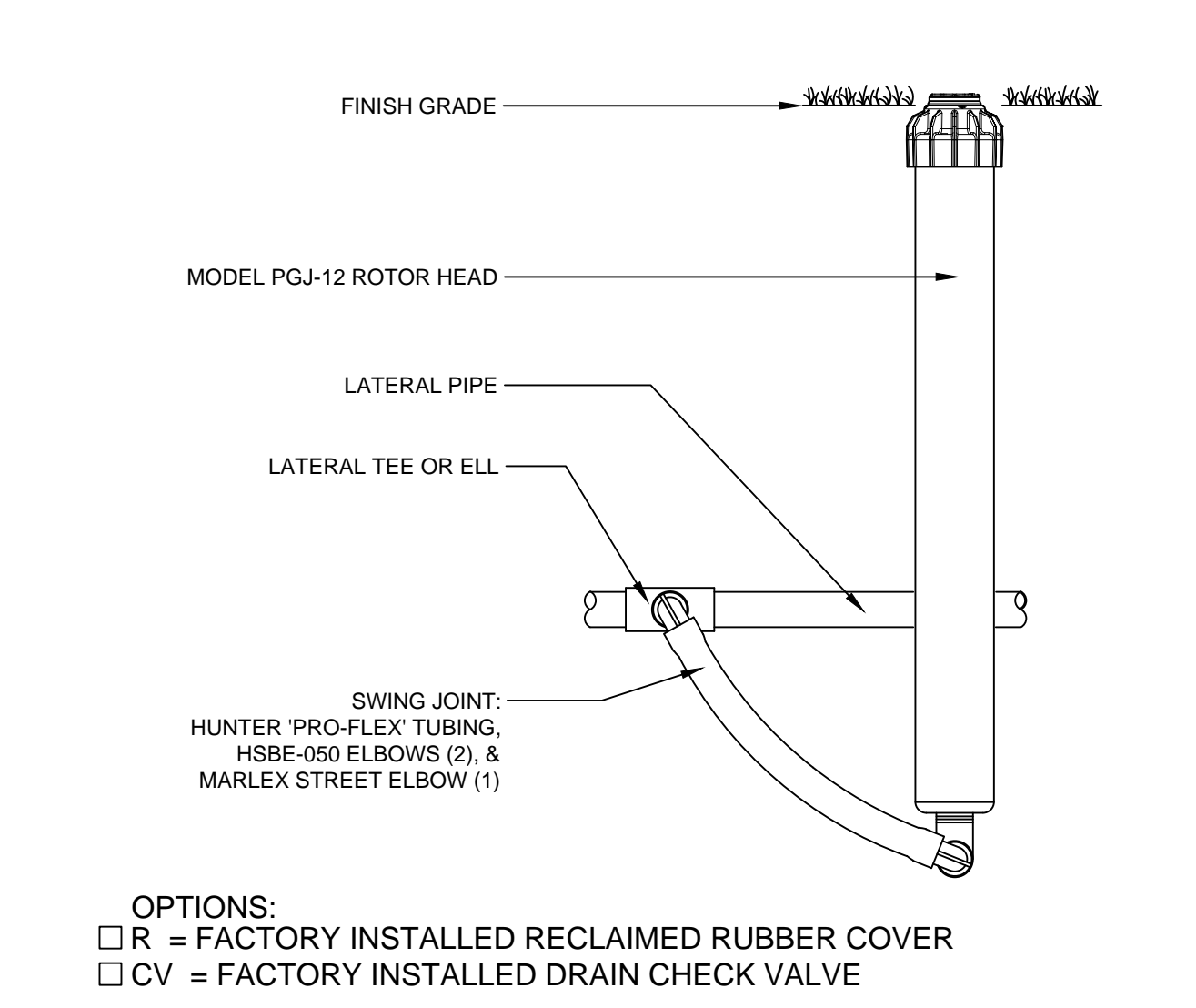
3 RAINBIRD 1400 BUBBLER
 NTS P-RE-RAI-12



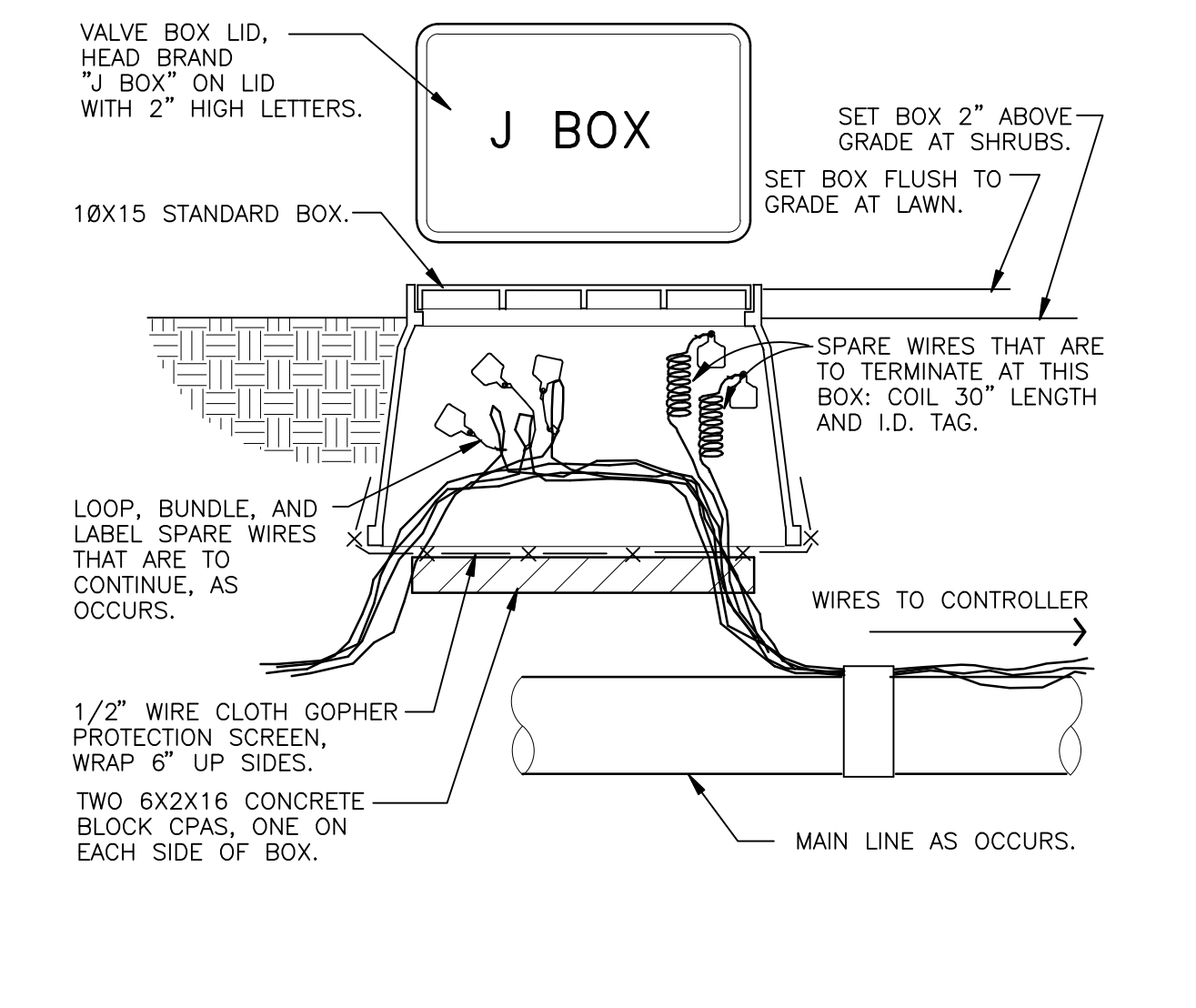
4 RAINBIRD 1806
 1" = 1" P-RE-RAI-02



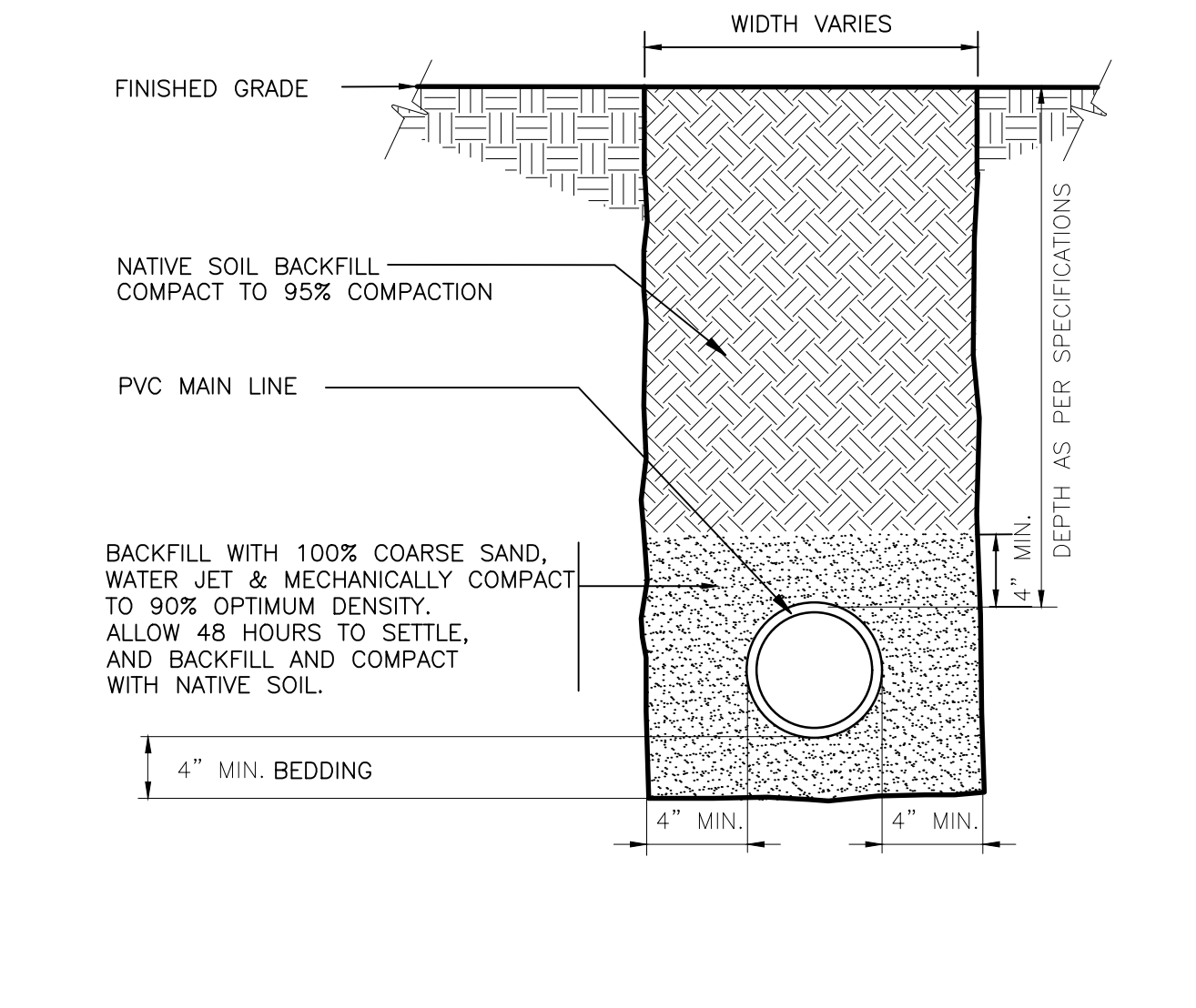
5 RAINBIRD 1812
 NTS P-RE-RAI-03



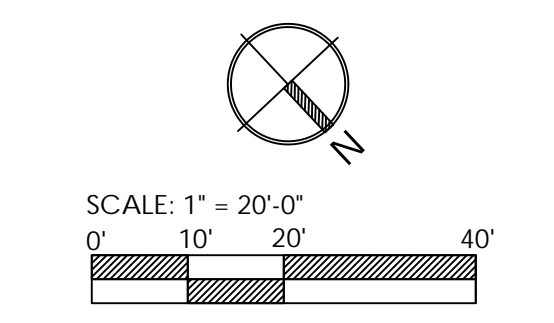
6 PGJ-12 ROTOR HEAD WITH PRO-FLEX TUBING
 3" = 1'-0" FX-IR-HUNT-ROTR-86



7 WIRE BUNDLE JUNCTION BOX
 1 1/2" = 1'-0" FX-IR-FX-AUXEQ-16



8 SLEEVE AT ROAD
 1 1/2" = 1'-0" FX-IR-FX-AUXEQ-15



PRIMARY ISSUE DATE: 11/10/2023
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01	60% DC Set	10/20/2023
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LEIGH A. GEVELINGER, P.L.A.
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SHEET: IR-2

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