

Bradley Park Tidal Garden

Palm Beach, FL

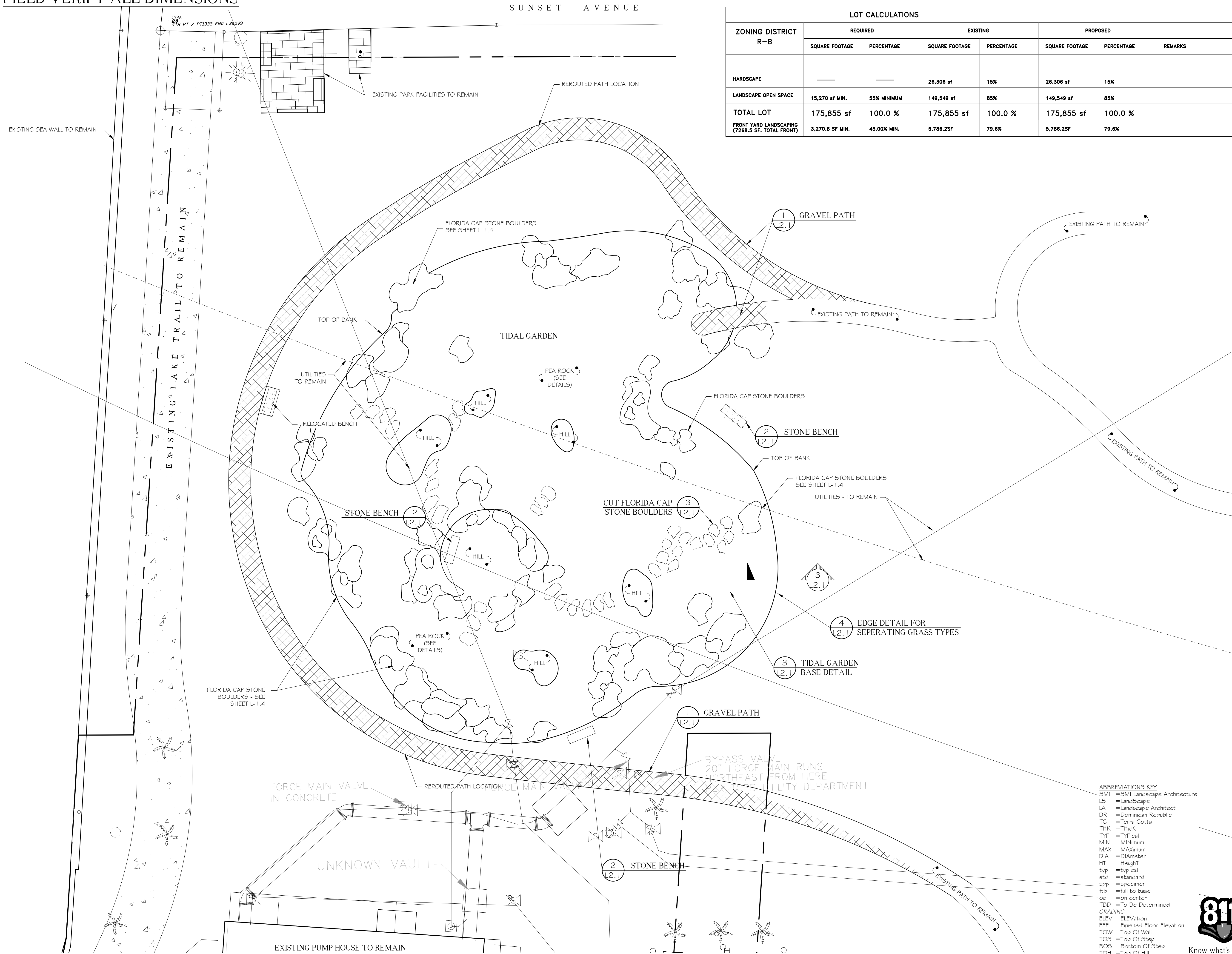
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SMI

LANDSCAPE ARCHITECTURE
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Telephone: 561-655-9006 Fax: 561-655-9007
eMail: smila@bellsouth.net www.smila.net
FL registration #223

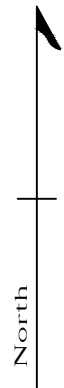
FIELD VERIFY ALL DIMENSIONS



ZONING DISTRICT R-B	LOT CALCULATIONS						
	REQUIRED		EXISTING		PROPOSED		REMARKS
	SQUARE FOOTAGE	PERCENTAGE	SQUARE FOOTAGE	PERCENTAGE	SQUARE FOOTAGE	PERCENTAGE	
HARDSCAPE	—	—	26,306 sf	15%	26,306 sf	15%	
LANDSCAPE OPEN SPACE	15,270 sf MIN.	55% MINIMUM	149,549 sf	85%	149,549 sf	85%	
TOTAL LOT	175,855 sf	100.0 %	175,855 sf	100.0 %	175,855 sf	100.0 %	
FRONT YARD LANDSCAPING (7268.5 SF. TOTAL FRONT)	3,270.8 SF MIN.	45.00% MIN.	5,786.2SF	79.6%	5,786.2SF	79.6%	

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NOTE:
FOOTINGS FOR ALL STRUCTURES TO BE AT
LEAST 3' BELOW GRADE TO ALLOW FOR
PLANTINGS / ROOT BALLS

2. 08/03/2020 Bid set
1. 05/18/2020 Landmarks Submittal

DATE DESCRIPTION

REVISIONS

COA-019-2020

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FL registration #LA 13000223

TITLE

Master Plan

SCALE 1/8"=1'-0"	PROJECT NO. 0000	
DATE: 08.03.2020	PRJCT MNGR: BSV	CHECKED: .
SEAL	DRAWING NO.	

L 1.1

SHEET 3 OF 9

ABBREVIATIONS KEY
SMI =SMI Landscape Architecture
LS =LandScape
LA =Landscape Architect
DR =Dominican Republic
TC =Terra Cotta
THK =Thick
TYP =Typical
MIN =MINimum
MAX =MAXimum
DIA =DIAMeter
HT =Height
typ =typical
std =standard
spp =specimen
ftb =full to base
oc =on center
TBD =To Be Determined
GRADING
ELEV =ELEVation
FFE =Finished Floor Elevation
TOW =Top Of Wall
TOS =Top Of Step
BOS =Bottom Of Step
TOH =Top Of Hill
BOH =Bottom Of Hill



FIELD VERIFY ALL DIMENSIONS



Layout to be done by
SMI on site. Actual
dimensions may vary
slightly

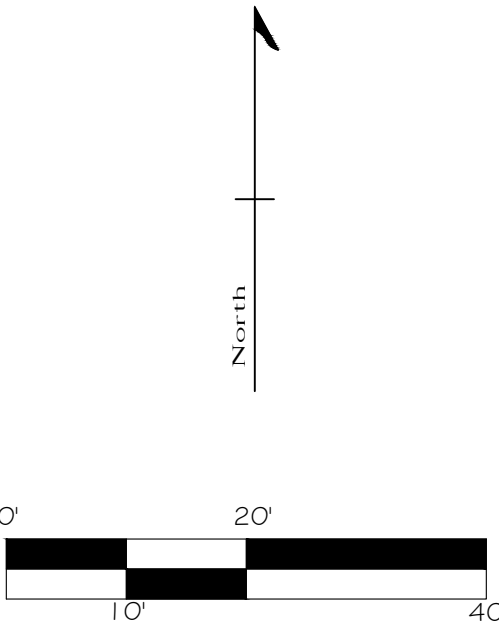
ABBREVIATIONS KEY
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TITLE		
Layout Plan		
SCALE 1/8" = 1'-0"	PROJECT NO. 0000	
DATE: 08.03.2020	PRJCT MNGR: BSV	CHECKED: .
SEAL	DRAWING NO. L 1.2 SHEET 3 OF 9	

FIELD VERIFY ALL DIMENSIONS

SUNSET AVENUE

EXISTING LAKE TRAIL TO REMAIN

EXISTING SEA WALL TO REMAIN

EXISTING PARK FACILITIES TO REMAIN

EXISTING PATH TO REMAIN

PROPOSED PATH

SOIL FROM TIDAL POOL EXCAVATION TO BE USED FOR FILL IN THIS AREA

PROPOSED FLORIDA CAP STONE BOULDERS

RELOCATED BENCH

PROPOSED CUT FLORIDA CAP STONE BOULDERS

PROPOSED FLORIDA CAP STONE BOULDERS

PROPOSED STONE BENCH

SOIL FROM TIDAL POOL EXCAVATION TO BE USED FOR FILL IN THIS AREA

PROPOSED CUT FLORIDA CAP STONE BOULDERS

PROPOSED FLORIDA CAP STONE BOULDERS

PROPOSED STONE BENCH

UNKNOWN VAULT

ROYAL POINCIANA WAY

EXISTING PUMP HOUSE TO REMAIN

GRADING LEGEND

- EXISTING SPOT ELEVATIONS
- PROPOSED CONTOURS
- PROPOSED SPOT ELEVATION

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GRADING

- ELEV = Elevation
- FPE = Finished Floor Elevation
- TOW = Top Of Wall
- TOS = Top Of Step
- BOS = Bottom Of Step
- TOH = Top Of Hill
- BOH = Bottom Of Hill

Final grading to be directed by SMI in field. Actual grades may vary slightly

811

Know what's below

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TITLE		
Grading Plan		
SCALE	PROJECT NO.	
1/8" = 1'-0"	0000	
DATE:	PRJCT MNGR:	CHECKED:
08.03.2020	BSV	.
SEAL	DRAWING NO.	
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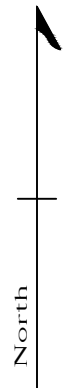
FIELD VERIFY ALL DIMENSIONS



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TITLE

Boulder Sheet

SCALE 1/8"=1'-0"	PROJECT NO. 0000
DATE: 08.03.2020	PRJCT MNGR: BSV
SEAL	CHECKED: .
	DRAWING NO.

L 1.4

SHEET 4 OF 9



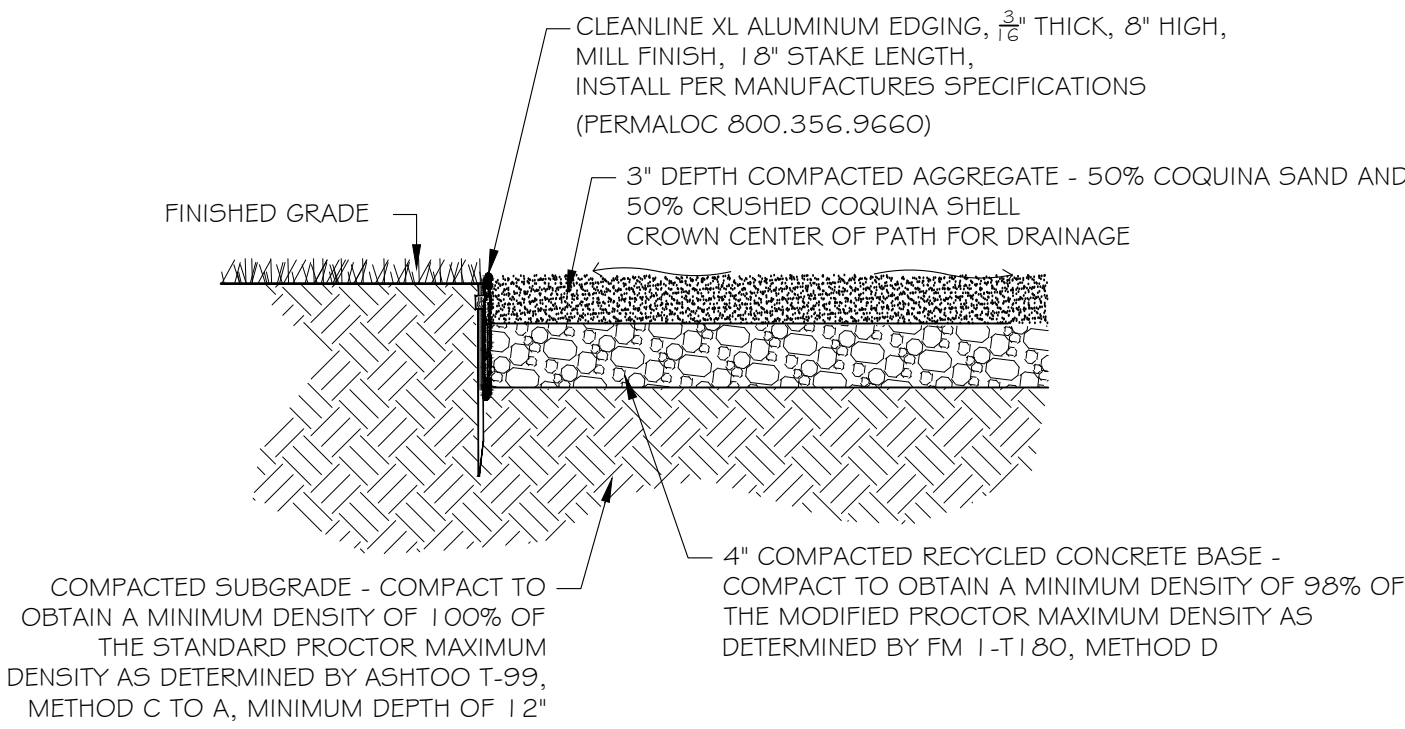
Know what's below
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CAPROCK BOULDER LEGEND

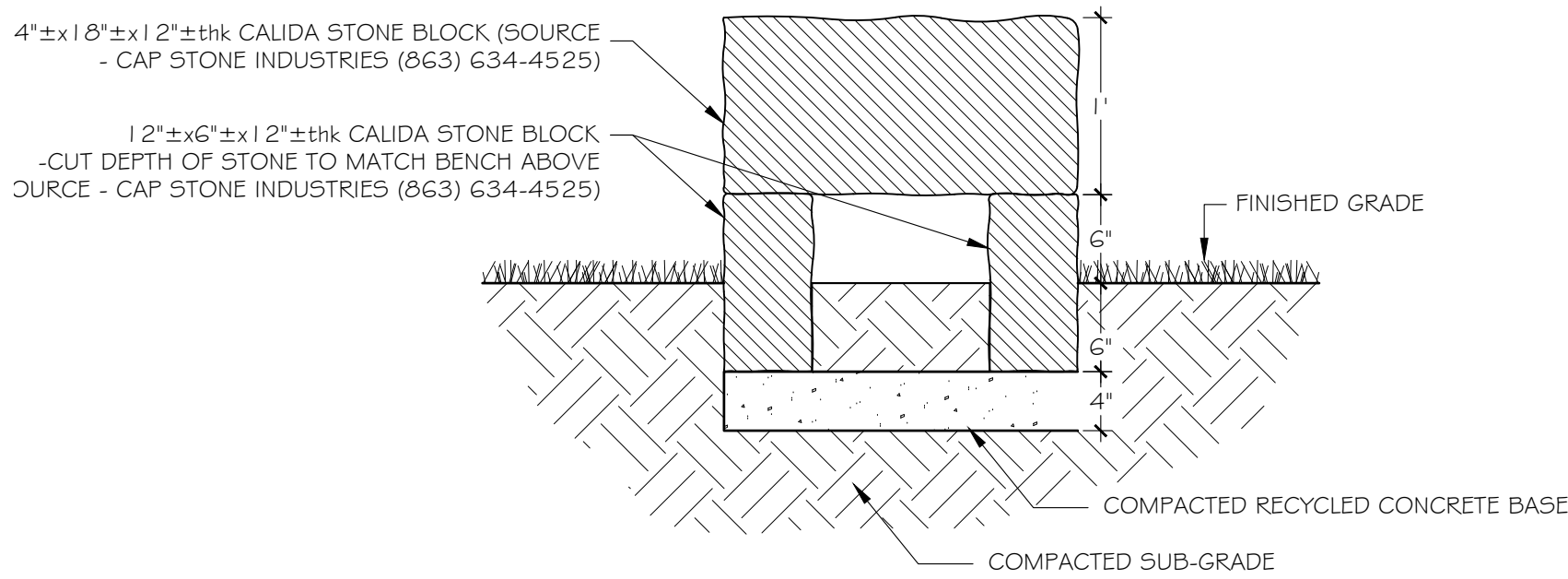
Qty	SYM	SIZE	DESCRIPTION
7	A	8'-9 1/2' x 6'-7 1/2'	CHARACTER PEICES WITH HOLES
12	B	5 1/2'-8' x 5'-6 1/2'	CHARACTER PEICES WITH HOLES
18	C	4 1/2'-5' x 3'-4 1/2'	CHARACTER PEICES WITH HOLES
40	D	3'-1 1/2'-4' x 3'-4 1/2'	CHARACTER PEICES
35	E	3' x 2 1/2'-3'+UNDER	STEPPING STONES
*	F	UNDER STONES AS NEEDED	
	G	B 5 1/2'-8' x 5'-6 1/2'	
	9	C 4 1/2'-5' x 3'-4 1/2'	

* 25 CAP ROCK BOULDERS HAVE BEEN DONATED AND TO BE USED FOR PROJECT.
DONATED CAP ROCK BOULDERS ARE LOCATED AT:
206 PHIPPS PLAZA, PALM BEACH
- BOULDERS TO BE SOURCED FROM CAP STONE INDUSTRIES
OKEECHOBEE, FL (863) 634-4525 SMI TO APPROVE

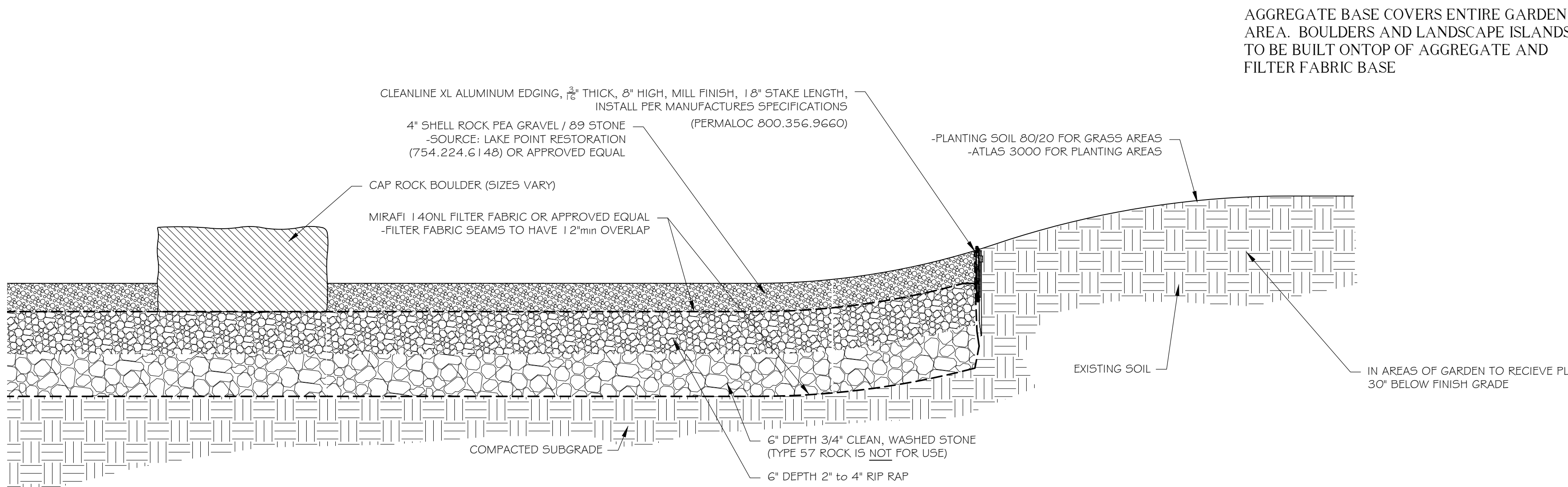
FIELD VERIFY ALL DIMENSIONS



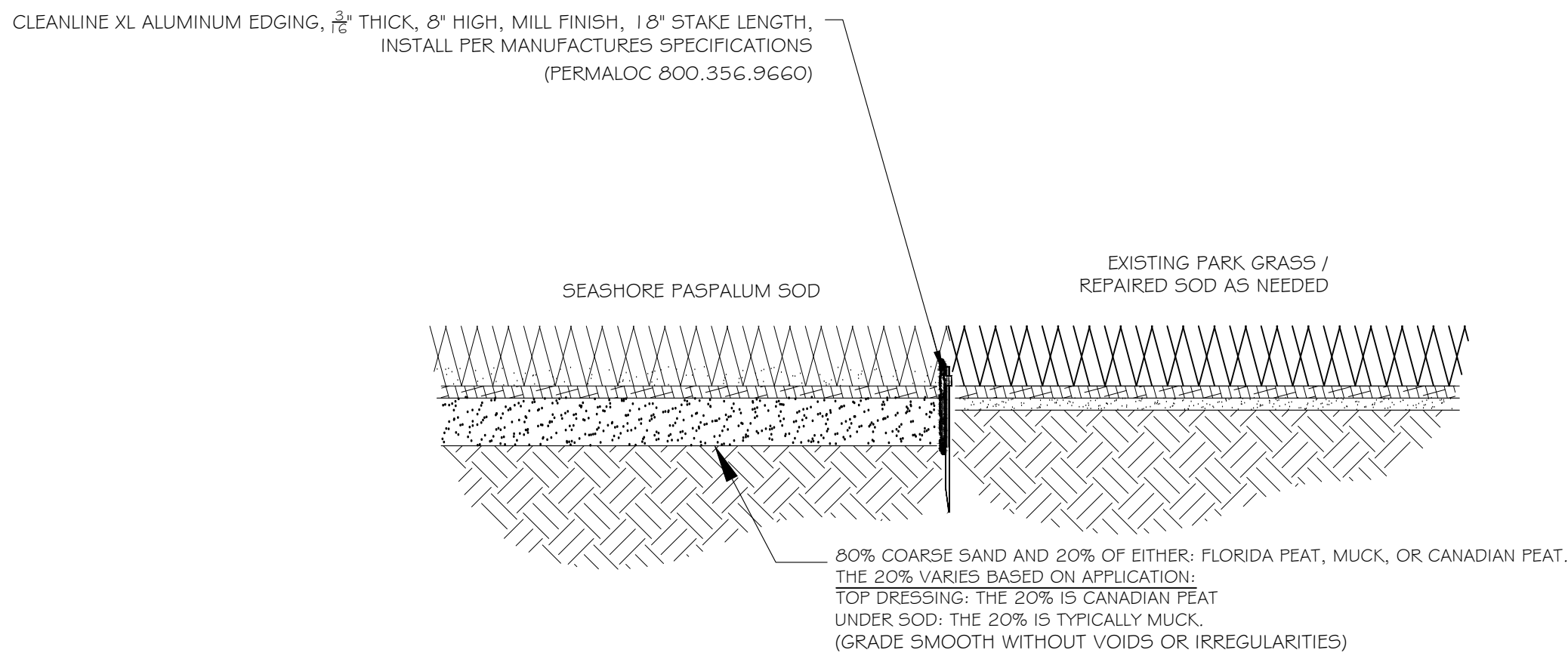
1 GRAVEL PATH DETAIL
2.1 SCALE: 1" = 1'-0"



2 STONE BENCH DETAIL
2.1 SCALE: 1" = 1'-0"



3 TIDAL GARDEN BASE DETAIL
2.1 SCALE: 1" = 1'-0"



4 EDGE DETAIL FOR SEPERATING GRASS TYPES
2.1 SCALE: 1" = 1'-0"

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GRADING
ELEV = elevation
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HARDSCAPE MOCK-UPS TO BE APPROVED
BY OWNER / LA PRIOR TO INSTALLATION

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FL registration #LA 13000223

Hardscape Details

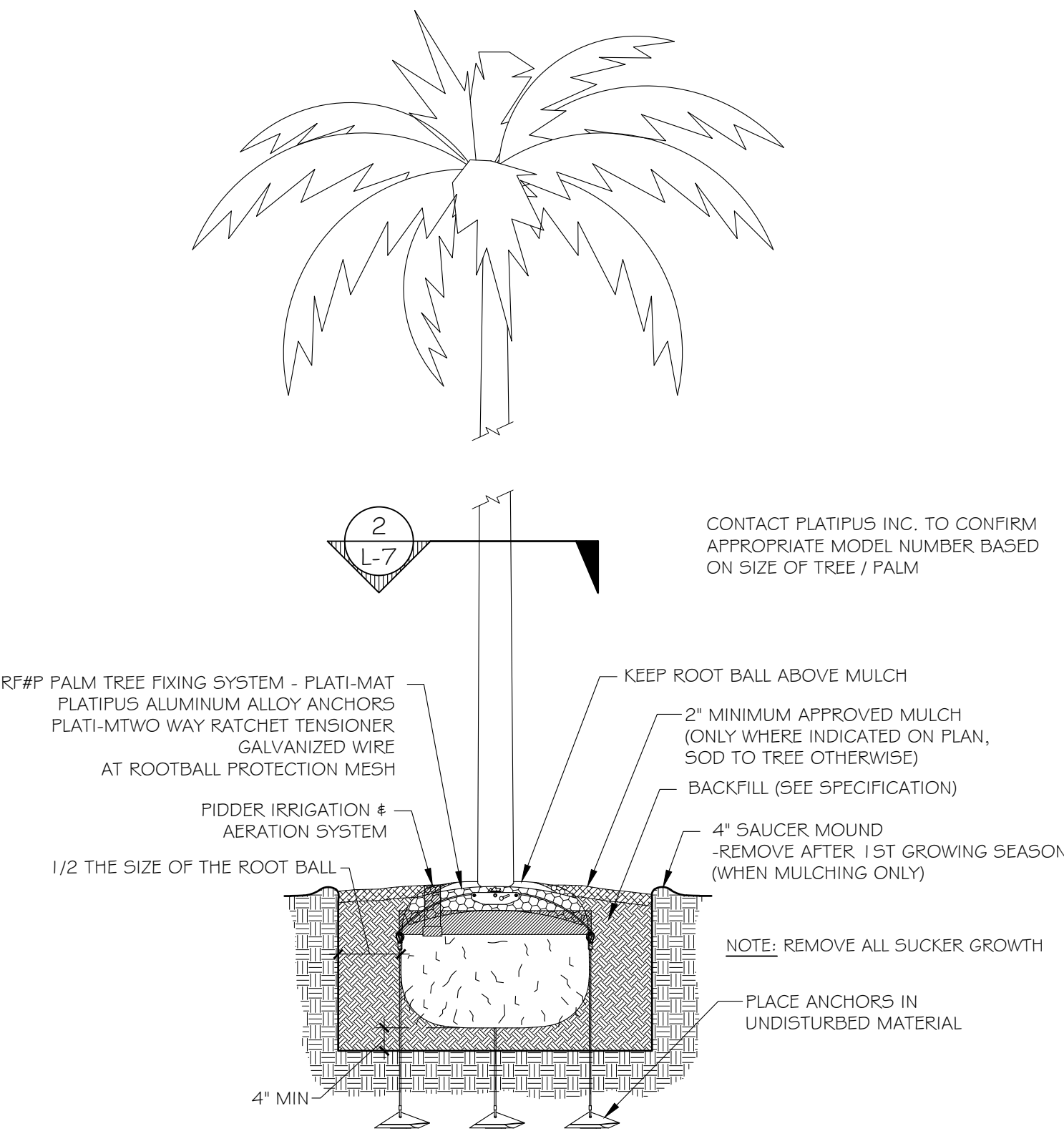
SCALE As Noted	PROJECT NO. 0000	
DATE: 08.03.2020	PRJCT MNGR: BSV	CHECKED: . .
SEAL	DRAWING NO. L- 2.1 SHEET 5 OF 9	

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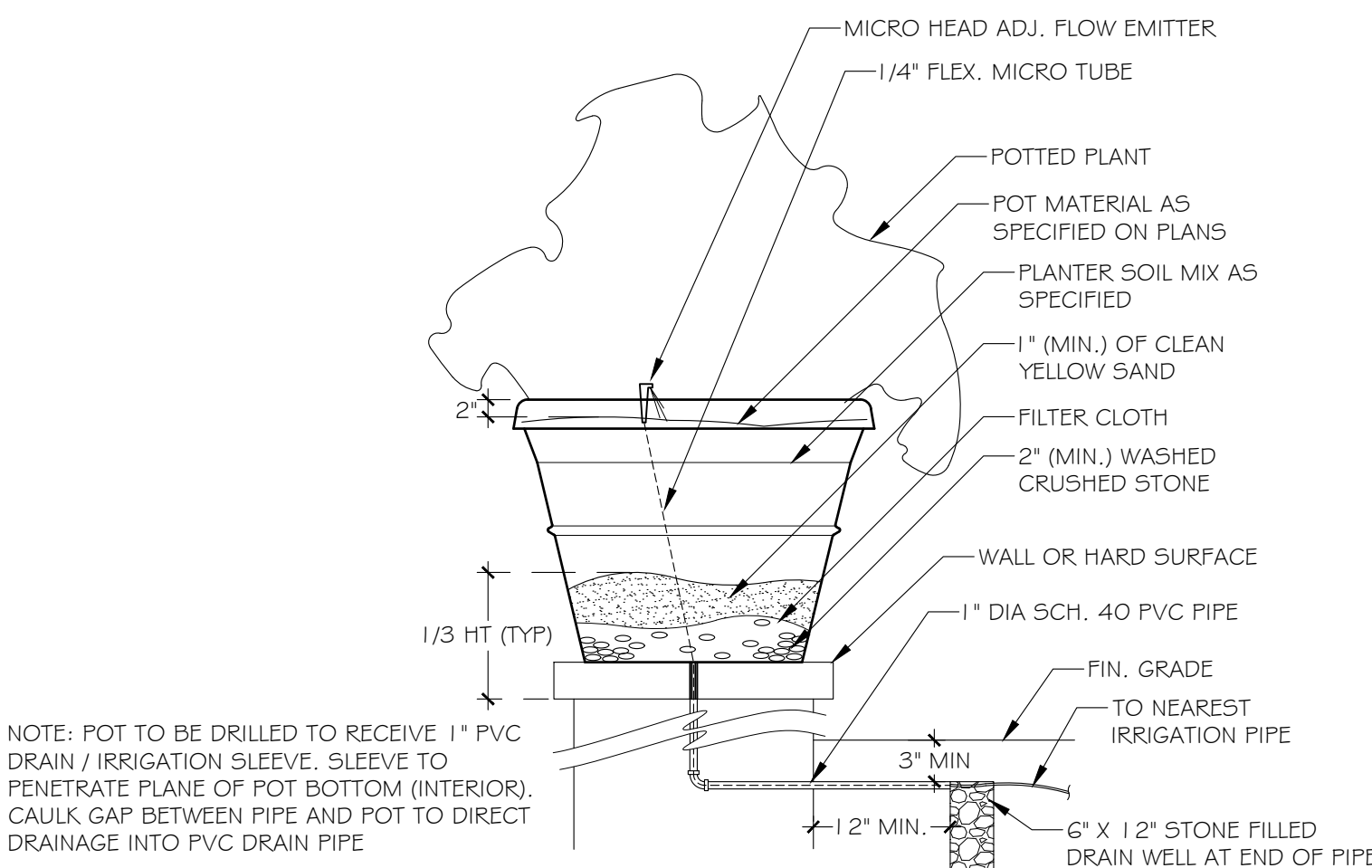
TITLE		
Planting Plan		
SCALE	PROJECT NO.	
1/8" = 1'-0"	0000	
DATE:	PRJCT MNGR:	CHECKED:
08.03.2020	BSV	.
SEAL	DRAWING NO.	
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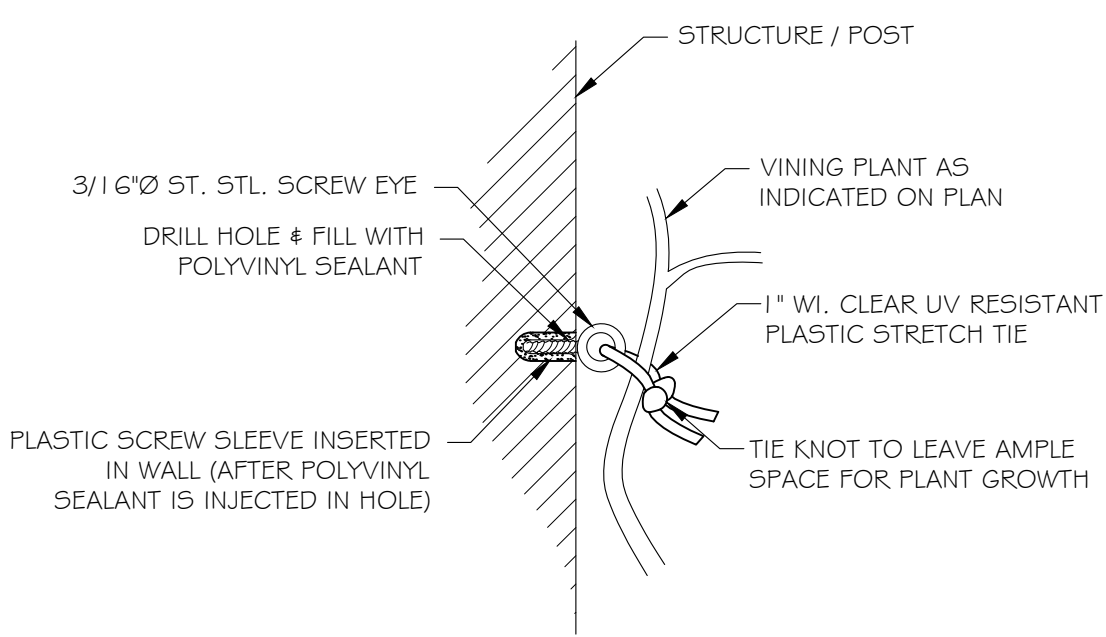
FIELD VERIFY ALL DIMENSIONS



1 PLATIPUS TREE ANCHORING
L3.2 DETAIL SCALE: NOT TO SCALE

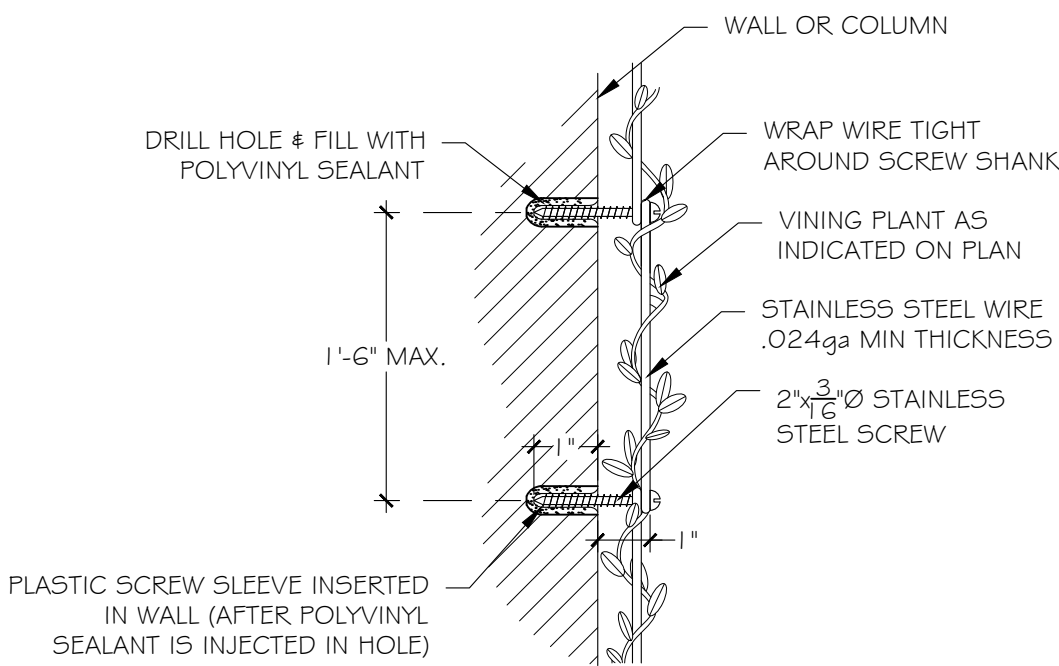


4 POTTED PLANT DETAIL
L3.2 SCALE: NOT TO SCALE

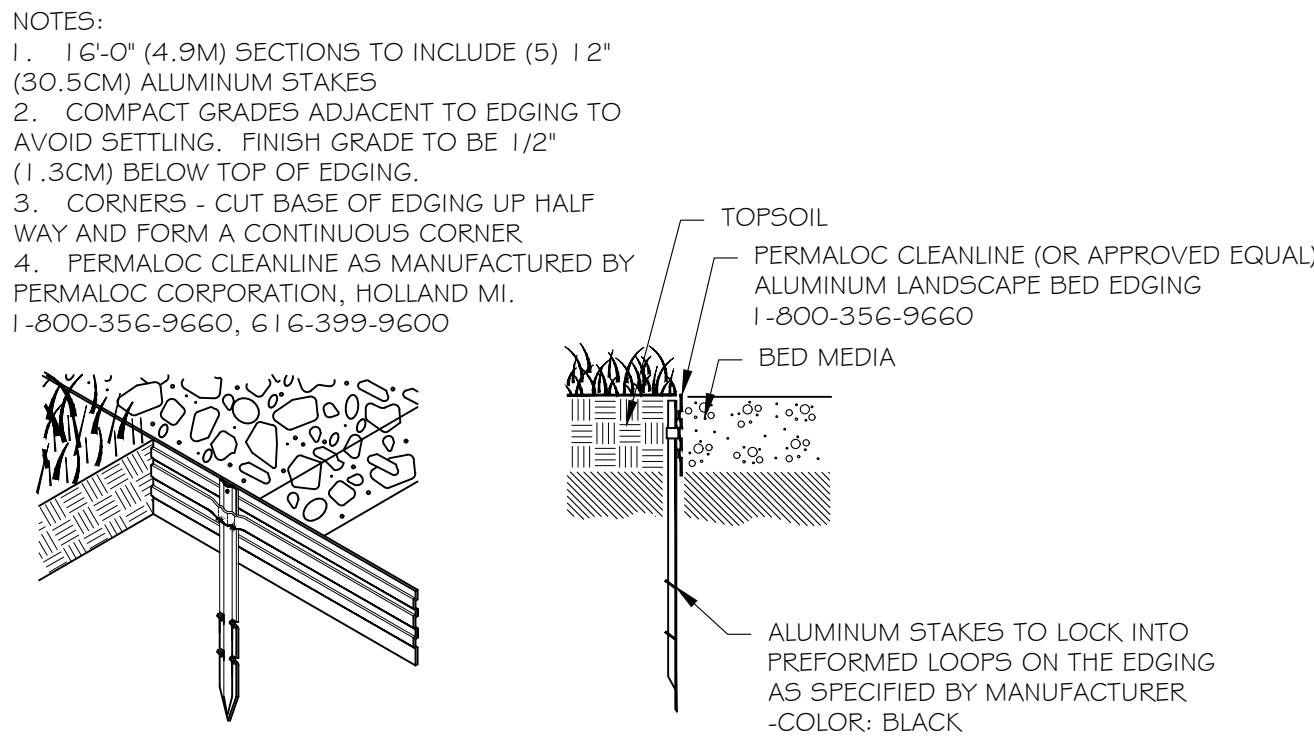


PIN TO WALL

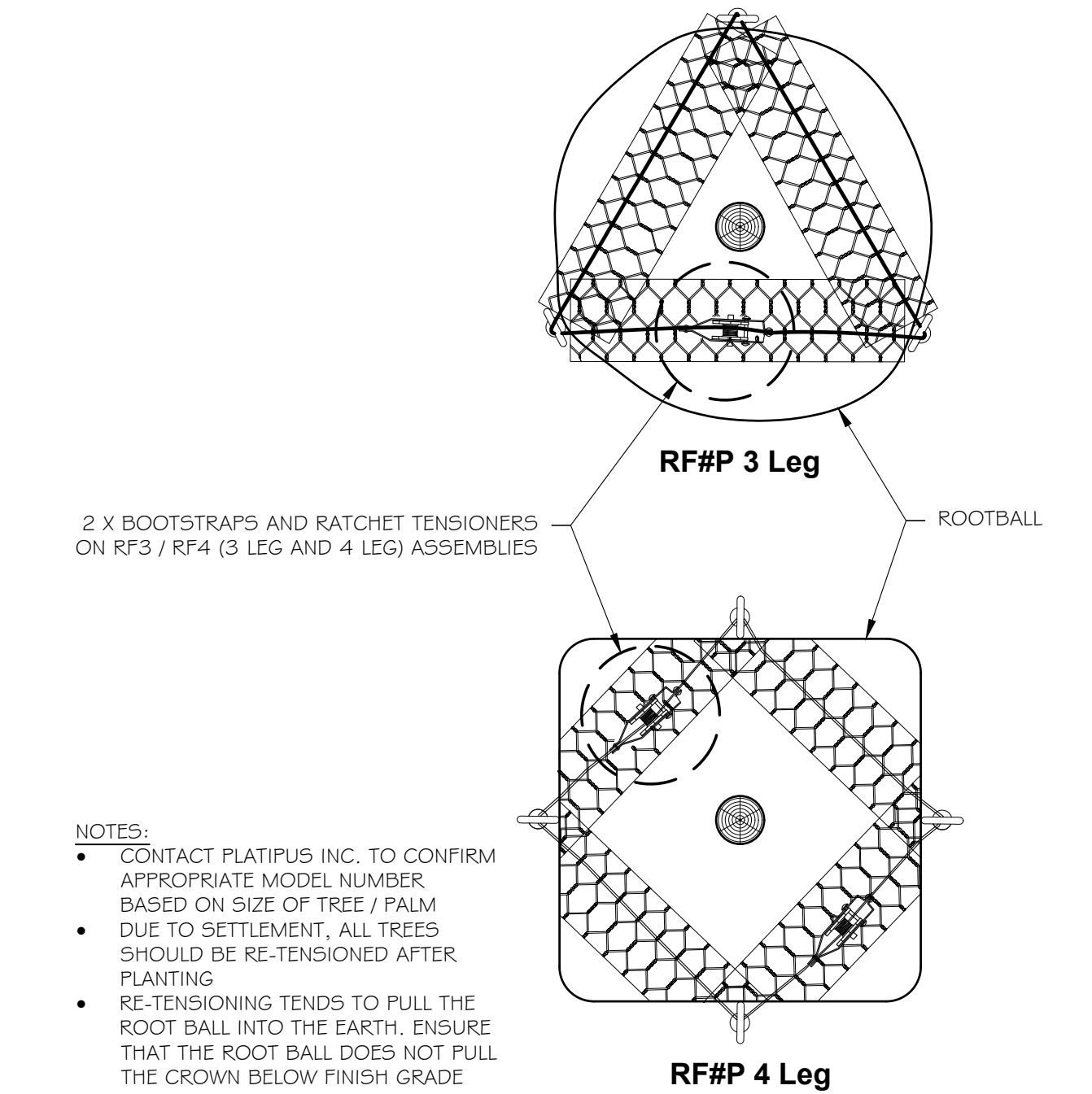
7 VINE SUPPORT DETAIL
L3.2 SCALE: NOT TO SCALE



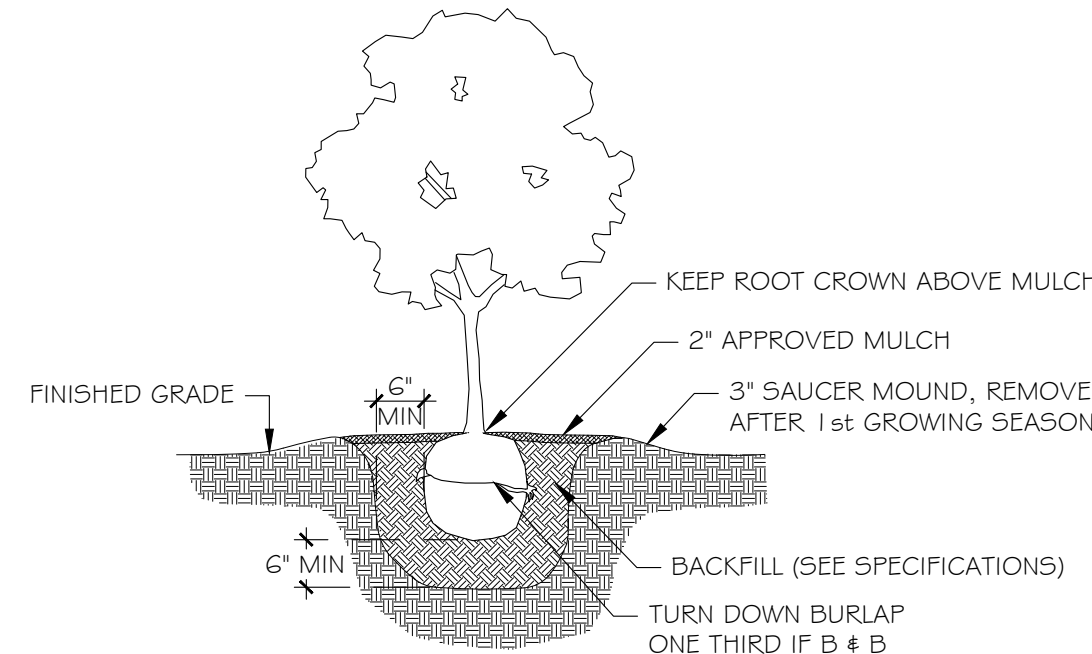
WIRE TO WALL



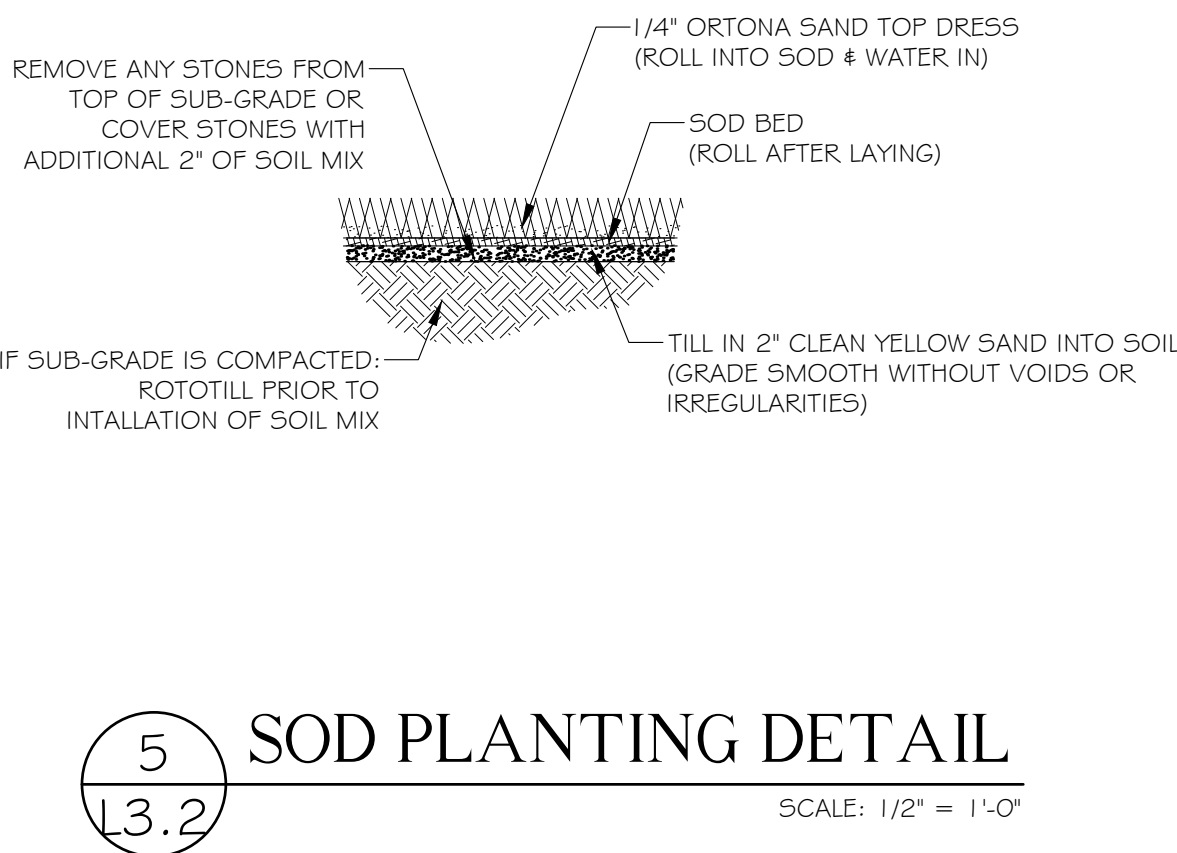
8 PLANT BED EDGING DETAIL
L3.2 SCALE: NTS



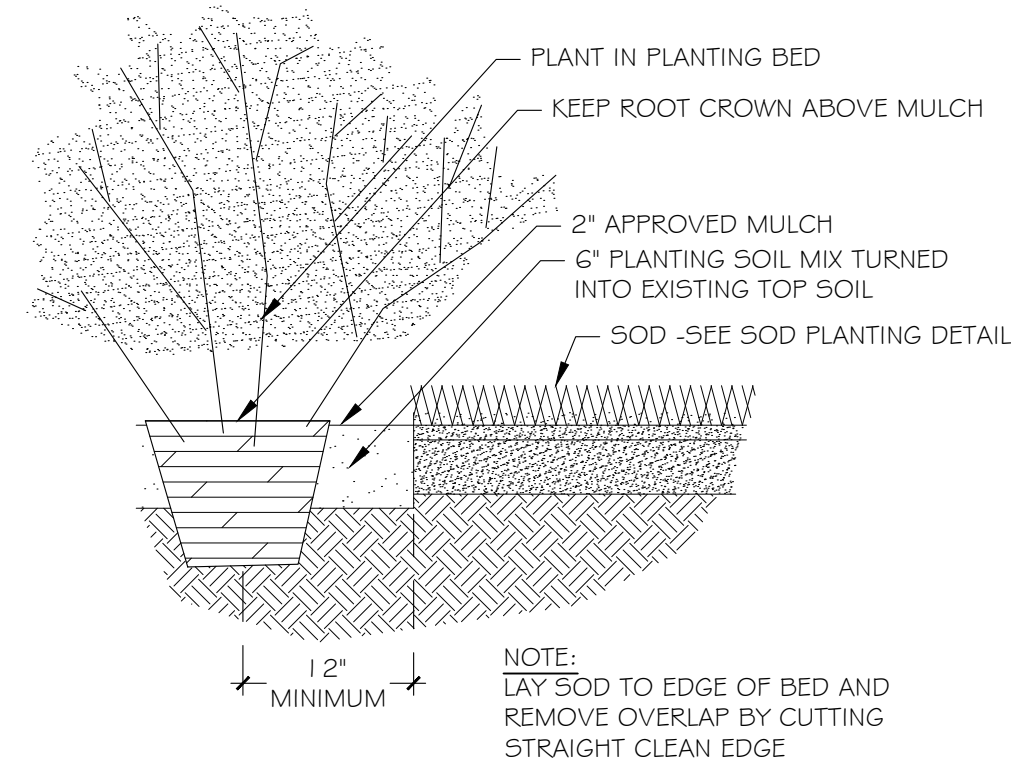
2 PLATIPUS ROOTBALL BOOTSTRAP
L3.2 DETAIL SCALE: NOT TO SCALE



3 SHRUB PLANTING DETAIL
L3.2 SCALE: NOT TO SCALE



5 SOD PLANTING DETAIL
L3.2 SCALE: 1/2\"/>



6 PLANTING BED DETAIL
L3.2 SCALE: NOT TO SCALE

SMI TO APPROVE STAKED LAYOUT OF ALL TREES AND PLANTING LAYOUT PRIOR TO INSTALLATION

ALL IRRIGATION, IRRIGATION EQUIPMENT AND IRRIGATION BOXES TO BE CONCEALED

ALL PLANTING BEDS TO HAVE STEEL EDGE BORDER

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Palm Beach, FL

LANDSCAPE ARCHITECT TO APPROVE
STAKED LAYOUT OF ALL TREES AND
PLANTING LAYOUT PRIOR TO INSTALLATION

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Planting Details		
SCALE NOT TO SCALE	PROJECT NO. 0000	
DATE: 08.03.2020	PRJCT MNGR: BSV	CHECKED: .
SEAL	DRAWING NO. L 3.2 SHEET 7 OF 9	



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FIELD VERIFY ALL DIMENSIONS

PLANTING SPECIFICATIONS

PLEASE FURNISH FLORIDA CERTIFIED LANDSCAPE CONTACTORS (FCLC) REGISTRATION NUMBER WITH PROPOSAL.

GENERAL CONDITIONS

SCOPE

1. THE WORK INCLUDED IN THESE SPECIFICATIONS SHALL CONSIST OF THE FURNISHING OF ALL LABOR, TOOLS, MATERIALS, PERMITS, ETC., NECESSARY FOR THE EXECUTION OF THE WORK AS HEREIN SPECIFIED AND SHOWN ON THE DRAWINGS.
2. THE LANDSCAPE CONTRACTOR SHALL INSTALL ALL MATERIAL IN ACCORDANCE WITH SOUND NURSERY PRACTICE AND SHALL PERFORM MAINTENANCE AND WATERING UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

EXAMINATION OF DRAWINGS AND SITE

1. THE LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE AND FULLY ACQUAINT HIMSELF WITH ALL OF THE EXISTING CONDITIONS IN ORDER THAT NO MISUNDERSTANDING MAY AFTERWARDS ARISE AS TO THE CHARACTER OR AS TO THE EXTENT OF THE WORK TO BE DONE, AND LIKEWISE, IN ORDER TO ADVISE AND ACQUAINT HIMSELF WITH ALL PRECAUTIONS TO BE TAKEN IN ORDER TO AVOID INJURY TO PERSONS OR PROPERTY OF ANOTHER. NO ADDITIONAL COMPENSATION WILL BE GRANTED BECAUSE OF ANY UNUSUAL DIFFICULTIES THAT MAY BE ENCOUNTERED IN THE EXECUTION OR MAINTENANCE OF ANY PORTION OF THE WORK. ANY DISCREPANCIES, OR OMISSIONS OR DOUBTS AS TO MEANING SHALL BE COMMUNICATED TO THE LANDSCAPE ARCHITECT, WHO WILL MAKE ANY INTERPRETATIONS HE/SHE DEEMS NECESSARY.

PLANT LIST

1. ANY DISCREPANCY BETWEEN THE PLANT LIST AND THE DRAWINGS SHALL BE CONSIDERED AS CORRECT ON THE DRAWINGS.

PROTECTION OF PUBLIC AND PROPERTY

1. THE LANDSCAPE CONTRACTOR SHALL PROTECT ALL MATERIALS AND WORK AGAINST INJURY FROM ANY CAUSE AND SHALL PROVIDE AND MAINTAIN ALL NECESSARY GUARDS FOR THE PROTECTION OF THE PUBLIC. HE SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE OR INJURY TO A PERSON OR PROPERTY WHICH MAY OCCUR AS A RESULT OF HIS FAULT OR NEGLIGENCE IN THE EXECUTION OF THE WORK.

2. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN WORKMAN’S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY INSURANCE (\$1,000,000) AND PROPERTY DAMAGE INSURANCE (\$1,000,000.00). A COPY OF THE CERTIFICATE OF INSURANCE MUST BE FURNISHED TO OWNER.

GUARANTEE

1. THE GUARANTEE PERIOD FOR ALL MATERIAL SHALL BEGIN AFTER FINAL APPROVAL BY LANDSCAPE ARCHITECT.
2. ALL MATERIAL EXCEPT SOD SHALL BE GUARANTEED FOR ONE YEAR PROVIDED IT RECEIVES PROPER MAINTENANCE (AS PRESCRIBED BY THE LANDSCAPE CONTRACTOR) BY THE OWNER AND IS NOT DAMAGED OR DESTROYED BY HURRICANES OR OTHER CAUSES BEYOND THE CONTRACTOR’S CONTROL.
3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT THE OWNERS NEGLIGENCE TO PROVIDE PROPER CARE OF THE MATERIAL.
4. ALL REPLACEMENT COST OF GUARANTEED MATERIAL, INCLUDING EQUIPMENT, AND LABOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

AWARD OF CONTRACT

1. ONLY UNIT PRICE–INSTALLED BIDS FOR THE WORK WILL BE ACCEPTABLE. HOWEVER, THE OWNER RETAINS THE RIGHT TO DELETE PORTIONS OF THE WORK FROM THE CONTRACT AND/OR AWARD SEPARATE CONTRACTS FOR PHASES OF THE PROJECT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS WHEN SUCH REJECTIONS ARE IN THE INTEREST OF THE OWNER.

EXECUTION OF THE WORK

1. THE LANDSCAPE CONTRACTOR SHALL HAVE HIS LABOR CREWS CONTROLLED AND DIRECTED BY A LANDSCAPE FOREMAN WELL VERSED IN PLANT MATERIALS, PLANTING, READING OF BLUEPRINTS AND COORDINATION BETWEEN JOB AND NURSERY IN ORDER TO EXECUTE INSTALLATION RAPIDLY AND CORRECTLY.

WATER

1. WATER SOURCE SHALL BE FURNISHED BY THE OWNER.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO COORDINATE HIS WORK WITH IRRIGATION CONTRACTOR.
3. ALL PLANT MATERIAL INSTALLED PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE WATERED WITH A TEMPORARY SYSTEM BY THE LANDSCAPE CONTRACTOR.

GRADING

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBGRADE OF LANDSCAPE AREAS UNLESS OTHERWISE SPECIFIED. THE TERM SUBGRADE SHALL BE DEFINED AS 4”–6” BELOW FINISH GRADE UNLESS OTHERWISE NOTED ON PLANS.
2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISHED AND FINE GRADING WITHIN PLANTER BEDS AND THE FILLING OF PLANTER BOXES. THE LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXCESS SOIL AND DEBRIS ACCUMULATED DURING HIS WORK.
3. THE SOD CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADE IN ALL SODDED AREAS. SEE SPECIFICATIONS RELATING TO SPECIES GROWERS.

DIGGING

1. THE LANDSCAPE CONTRACTOR SHALL EXERCISE CARE IN DIGGING AND OTHER WORK SO AS NOT TO DAMAGE EXISTING WORK, INCLUDING UNDERGROUND AND OVERHEAD PIPES AND CABLES. SHOULD SUCH UNDERGROUND AND OVERHEAD OBSTRUCTIONS BE ENCOUNTERED WHICH INTERFERE WITH PLANTING, THE LANDSCAPE ARCHITECT OR THE OWNER’S AUTHORIZED REPRESENTATIVE SHALL BE CONSULTED AND WILL ADJUST THE LOCATION OF PLANTS TO CLEAR SUCH OBSTRUCTION OR MOVE THE OBSTRUCTION.
2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIR OF ANY DAMAGE CAUSED BY HIS WORK.

PLANTING PITS

1. EXCAVATE CIRCULAR PITS WITH VERTICAL SIDES FOR ALL PLANTS, EXCEPT FOR HEDGES AND PLANTS SPECIFICALLY DESIGNATED TO BE PLANTED IN BEDS. DIAMETER OF PITS OF TREES AND SHRUBS SHALL BE AT LEAST 1/3 LARGER THAN THE DIAMETER OF THE BALL.
2. EXCAVATE PLANTING PITS AND PLANTING BEDS, PREPARE FINE SUBGRADE THROUGHOUT ALL PITS AND BEDS, AND PLACE THE PLANTS TO BE PLANTED FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.

PRUNING

1. REMOVE DEAD AND BROKEN BRANCHES FROM ALL PLANT MATERIAL IMMEDIATELY. PRUNE TO RETAIN TYPICAL GROWTH HABIT OF INDIVIDUAL PLANTS WITH AS MUCH HEIGHT AND SPREAD AS IS PRACTICAL.

2. HEDGE MATERIALS TO BE PULLED IN, TIED AND TRIMMED TO VERTICAL AFTER INSTALLATION, WITH A FINISHED APPEARANCE UNLESS OTHERWISE NOTED.

TREE BRACING AND GUYING

1. LARGE TREES AND PALMS SHALL BE BRACED WITH CYPRESS POLES OR CLEAN LUMBER. BRACES SHALL BE PAINTED MATTE GREEN FINISH.
2. SMALL TREES SHALL BE GUYED IN THREE DIRECTIONS WITH THREE STRANDS OF NO. 12 GALVANIZED WIRE ATTACHED TO ANCHORS DRIVEN BELOW GRADE. WIRES WHICH COME IN CONTACT WITH THE TREE ARE TO BE ENCASED IN RUBBER HOSE.

PLANT MATERIALS

1. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE NAMES GIVEN IN HORTUS III AND IN STANDARDIZED PLANT NAMES, 2001, LATEST EDITION. PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT INCLUDED THEREIN, CONFORM GENERALLY WITH NAMES ACCEPTED IN THE NURSERY TRADE.

2. QUALITY: PLANTS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECT PESTS, PLANT DISEASES AND INJURIES. TREES SHALL BE HEAVILY BRANCHED, OR IN PALMS, HEAVILY LEAFED. REQUIREMENTS FOR THE MEASUREMENT, BRANCHING GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LISTS GENERALLY FOLLOW THE CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., AND THE AMERICAN STANDARD FOR NURSERY STOCK. PLANT MATERIAL SHALL BE GRADED AS SPECIFIED ON THE DRAWINGS.

GRADES SHALL CONFORM TO GRADES AND STANDARDS FOR NURSERY STOCK, STATE PLANT BOARD OF FLORIDA. PALMS WITH MARRED OR BURNED TRUNKS WILL NOT BE ACCEPTED. PLANTS WITH BROKEN, DAMAGED, OR INSUFFICIENT BALLS WILL BE REJECTED. ALL PLANTS SHALL BE FLORIDA FANCY.

3. SUBSTITUTIONS WILL BE PERMITTED ONLY UPON WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.

PLANTING SOIL

SOIL BY “ATLAS SOIL” OR APPROVED ALTERNATE

ALL PLANTING AREAS SHALL BE CLEANED OF ALL PLANT AND MATERIAL TWO WEEKS PRIOR TO INSTALLATION OF SOIL FOR REMOVAL OF ANY WEEDS.

GROUND COVER BEDS –REMOVE 6” OF EXISTING SOIL AND FILL WITH 4” OF 8270 MIX & TILL/MIX INTO EXISTING SOIL.

SHRUB BEDS –REMOVE 6” OF EXISTING SOIL AND FILL WITH A MIX OF 50% APPROVED SOIL & 50% EXISTING SOIL.

TREE PITS –REMOVE SOIL IN THE AMOUNT OF 1/2 LARGER THAN THE BALL OF THE TREE AND REPLACE WITH A MIX OF 50% APPROVED SOIL & 50% EXISTING SOIL.

PALMS –REMOVE SOIL IN THE AMOUNT OF 1/2 LARGER THAN THE BALL OF THE PALM AND REPLACE WITH APPROPRIATE SOIL AND CLEAN YELLOW SAND FREE OF WEEDS.

SOIL SPECS FOR PLANTING BEDS:

ATLAS PEAT & SOIL 8270 MIX

20% can peat
25% fla peat
40% pine bark
15% airlite

SOIL SPECS FOR TREES AND LARGE SHRUBS:

SMILA SOIL MIX (APPROVED SOIL)

50% Pinebark
40% Florida Peat
10% Coarse Sand
10lbs Dolomite per/Yard
18.5lbs TurfPro per/Yard
25 pounds Nutricote 18/6/8–360 P/yard optional

1. SOLE SOURCE – FROM ATLAS PEAT & SOIL INC., P.O. BOX 3867, BOYNTON BEACH, FLORIDA, 33424–3867, (561) 734–7300

PLANTING SOIL NOT MEETING THESE REQUIREMENTS WILL NOT BE ACCEPTED.

1. SOIL FOR PLANTING TREES, SHRUBS AND GROUND COVER SHALL BE SMILA SOIL UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
2. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO REMOVE ANY EXCESS SOIL AND DEBRIS FROM THE SITE. REFER TO THE GRADING PLAN AND GRADING SPECIFICATIONS.
3. LANDSCAPE ARCHITECT MAY REQUEST SOIL ANALYSIS FOR THE TESTING OF PLANTING SOIL UTILIZED BY THE SELECTED LANDSCAPE CONTRACTOR.

MULCH

ALL MULCH FOR THE PROJECT SHALL BE ATLAS GROW. MULCH SHALL BE APPLIED 2” IN TREES AND PALMS AS SPECIFIED, AND ALL PLANTING BEDS, HEDGE AND SHRUBS. KEEP CROWN OF ROOT BALL ABOVE MULCH SOLE SOURCE – FROM ATLAS PEAT & SOIL INC., P.O. BOX 3867, BOYNTON BEACH, FLORIDA, 33424–3867, (561) 734–7300

SUBMIT BAG TO LANDSCAPE ARCHITECT FOR APPROVALS.

FERTILIZER

1. TREES USE ONE 21 GRAM AGRIFORM PLANTING TABLET PER 1/2” TRUNK DIAMETER. SPACE EQUALLY AROUND AT 2/3 DEPTH OF BALL.
2. SHRUBS: AGRIFORM PLANTING TABLETS SHALL BE APPLIED PER THE MANUFACTURERS SUGGESTED APPLICATION RATES.
3. SOD USE FERTILIZER AS PER BELOW WITH TRACE ELEMENTS APPLIED AT THE RATE OF 15 LBS. PER 1000 SQ. FT. PRIOR TO LAYING SOD.
4. POWDERED MYCCHORIZAE MIX; DIE HARD, ‘PLANT HEALTH’ CARE OR EQUAL) AND LIQUID B–THRIVE (OR EQUAL) SHOULD BE ADDED TO ALL TREES, SHRUBS AND GROUND COVER PLANTING BEDS AS PER MANUFACTERES DIRECTIONS.
5. ALL TREES, SHRUBS, GROUND COVER AND SOD TO USE LESCO 13–3–13 FERTILIZER AS PER MANUFACTURERS SPECIFICATIONS

SABAL PALMS

1. SABAL PALMS SHALL HAVE A MINIMUM TRUNK DIAMETER OF 12” MEASURED 2’ ABOVE GROUND.

HEDGES

1. THE LANDSCAPE CONTRACTOR SHALL PROVIDE FULL MATERIAL TO PRODUCE A SOLID SCREEN FROM THE TOP OF HEDGE TO THE BASE OF HEDGE.
2. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO ADD FILLERS TO THE HEDGE AS NEEDED TO PRODUCE A SOLID FULL TO BASE (F.T.B.), SCREEN TO BE INCLUDED IN THE CONTRACTED PRICE.
3. PLANT MATERIAL WITH WEAK OR THIN FOLIAGE WILL NOT BE ACCEPTED.

VINES

1. MATERIALS & INSTALLATION OF VINE SUPPORTS SHALL BE INCLUDED IN UNIT COST OF VINE SPECIFIED

SODDING

1. THE LANDSCAPE CONTRACTOR SHALL SOD ALL AREAS INDICATED AND NOTED ON THE DRAWINGS.

2. NO SODDING SHALL OCCUR UNTIL ALL AREAS TO BE SODDED ARE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, THE GROUND BROUGHT TO AN EVEN GRADE AND SPECIFIED AMENDMENTS HAVE BEEN ADDED. SEE DETAILS FOR SPECIFIC AMENDMENTS AS PER SOD TYPE. ALL SODDED AREAS WILL BE TREATED WITH ‘ROUNDUP’ HERBICIDE PER MANUFACTURER’S SPECIFICATIONS AT LEAST TEN DAYS PRIOR TO SOD INSTALLATION.

3. THE SOD SHALL BE FIRM, TOUCH TEXTURE, HAVING A COMPACTED GROWTH OF GRASS WITH GOOD ROOT DEVELOPMENT. IT SHALL CONTAIN NO NOXIOUS WEEDS, OR ANY OTHER OBJECTIONABLE VEGETATION, FUNGUS, INSECTS OR DISEASE. PREPARATION OF AREAS SHALL BE PERFORMED WELL ENOUGH IN ADVANCE TO ALLOW SUFFICIENT TIME TO WORK PROPERLY. THE SOIL EMBEDDED IN THE SOD SHALL BE GOOD, CLEAN EARTH, FREE FROM STONES AND DEBRIS. THE SOD SHALL BE FREE FROM FUNGUS, VERMIN, AND OTHER DISEASES.

4. BEFORE BEING CUT AND LIFTED, THE SOD SHALL HAVE BEEN MOWED AT LEAST THREE TIMES WITH A LAWN MOWER, WITH THE FINAL MOWING NOT MORE THAN SEVEN DAYS BEFORE THE SOD IS CUT. THE SOD SHALL BE CAREFULLY CUT INTO UNIFORM DIMENSIONS.

5. SOLID SOD SHALL BE LAID WITH CLOSELY ABUTTING JOINTS WITH A TAMPED OR ROLLED EVEN SURFACE.

6. WATERING SHALL BE ACCOMPLISHED UNTIL ACCEPTANCE OF THE WORK BY THE LANDSCAPE ARCHITECT.

7. MAINTENANCE OF MATERIAL SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR UNTIL FINAL APPROVAL OF LANDSCAPE ARCHITECT.

8. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO BRING THE SOD EDGE IN A NEAT, CLEAN MANNER TO THE EDGE OF ALL PAVING AND SHRUB AREAS.
9. SEE PLANS FOR DETAILS. RE: SOD VARIETIES

10. FOR SOD, APPLY DEPTH OF SOIL AS PER PLANTING DETAILS PAGE. REMOVE ANY STONES FROM TOP OF SUB–GRADE OR COVER STONES WITH ADDITIONAL 2” OF SOIL MIX.

11. ALL SOD AREA SHALL BE TREATED WITH ‘ROUND UP’ TWO WEEKS PRIOR TO INSTALLATION FOR REMOVAL OF ANY EXISTING OBJECTIONABLE PLANTS. DOSAGE AND APPLICATION PER MANUFACTURERS SPECIFICATIONS.

CLEAN UP

1. THE LANDSCAPE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. HE SHALL LEAVE ALL PAVED AREAS “BROOM CLEAN” WHEN COMPLETED WITH THE WORK.
2. MARKS AND DAMAGE TO EXISTING PAVING MATERIALS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

ALL PALMS, TREES, AND LARGE SPECIMEN PLANTS SHALL BE STAKED BY THE LANDSCAPE CONTRACTOR FOR LA APPROVAL OF LAYOUT AND LOCATIONS PRIOR TO INSTALLING SAME.

TREE STAKE PAINT FORMULA:

BEHR PREMIUM PLUS EXT FLAT –ACCENT BASE (4670)

COLORANT 02 48 96
D THALO GREEN 01 09 1
C YELLOW OXIDE 02 04 0
B LAMP BLACK 01 00 0

SUBMIT SAMPLE

TO PROTECT AGAINST GANODERMA PALM FUNGUS ALWAYS REMOVE ALL PALM STUMPS FROM PROPERTY – STUMPS ACT AS HOSTS TO THIS DESTRUCTIVE LONG LIVED FUNGUS.

PLANT LIST

All plants to be Florida Fancy

Qty	Scientific Name	Common Name	Planting Size	Notes	Native
4	Aloysia virgata	Sweet Almond bush	3 gal		N
42	Annuals	Annuals (as specified)	#1, 12”oc		N
13	Asclepias perennis	Milk Weed	#1, 12”oc		Y
3	Calamagrostis acutiflora	Feather Reed Grass	#3, 24”oc		N
44	Cnnum americanum	String/Swamp Lily	#1, 12”oc		Y
3	Duranta erecta	Golden Dewdrop	as specified		N
1	Gardenia augusta 'Miami Supreme'	Miami Supreme Gardenia	as specified	low graft	N
5	Gordonia lasianthus	Loblolly bay gordonia	as specified		Y
22	Helianthus debilis	Beach Sunflower	#1, 24”oc		Y
183	Iris versicolor	Blue Flag Iris	#3, 12”oc		Y
15	Juncus esculenta 'Illustns'	Imperial Taro	#3, 24”oc		Y
11	Leonotis leonurus	Lions Tail	#3, 24”oc		N
1	Lysiloma latisiliqua	Wild Tamannid	20’ ht x 20’ spr	collected	Y
40	Muhlenbergia capillans	Muhly Grass	#3, 24”oc		Y
46	Pentalinon lutea	Wild Allamanda	#1, 12”oc		Y
15	Spartina spartinae	Gulf Cordgrass	#3, 24”oc		Y
60	Sporobolus virginicus	Seashore Dropseed	#1, 12”oc		Y
40	Tecomana capensis	Cape honeysuckle	#1, 12”oc		N
48	Tripsacum dactyloides	Fakahatchee Grass	#3, 24”oc		Y
7	Zama integrifolia	Cootbie	#3, 24”oc		Y
2	Barlena cristata	Philippine violet	#7		N
9	Hyacinthoides non-scripta	Common Bluebell	#3, 24”oc		N
1	Vitex agnus-castus	Chaste tree	8”ht, 5”sprd		N
5	Chrysopogon zizanioides	Vetiver	#3, 24”oc		N
3	Cenchrus polystachios	Mission Grass	#3, 24”oc		N

Bradley Park
Tidal
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SMI TO APPROVE STAKED LAYOUT OF ALL TREES AND PLANTING LAYOUT PRIOR TO INSTALLATION

SMI TO APPROVE LOCATIONS OF ANY / ALL IRRIGATION BOXES

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NOTE:
FOOTINGS FOR ALL STRUCTURES TO BE AT LEAST 3’ BELOW GRADE TO ALLOW FOR PLANTINGS / ROOT BALLS

2. 08/03/2020 Bid set
1. 05/18/2020 Landmarks Submittal

DATE DESCRIPTION

REVISIONS

COA-019-2020

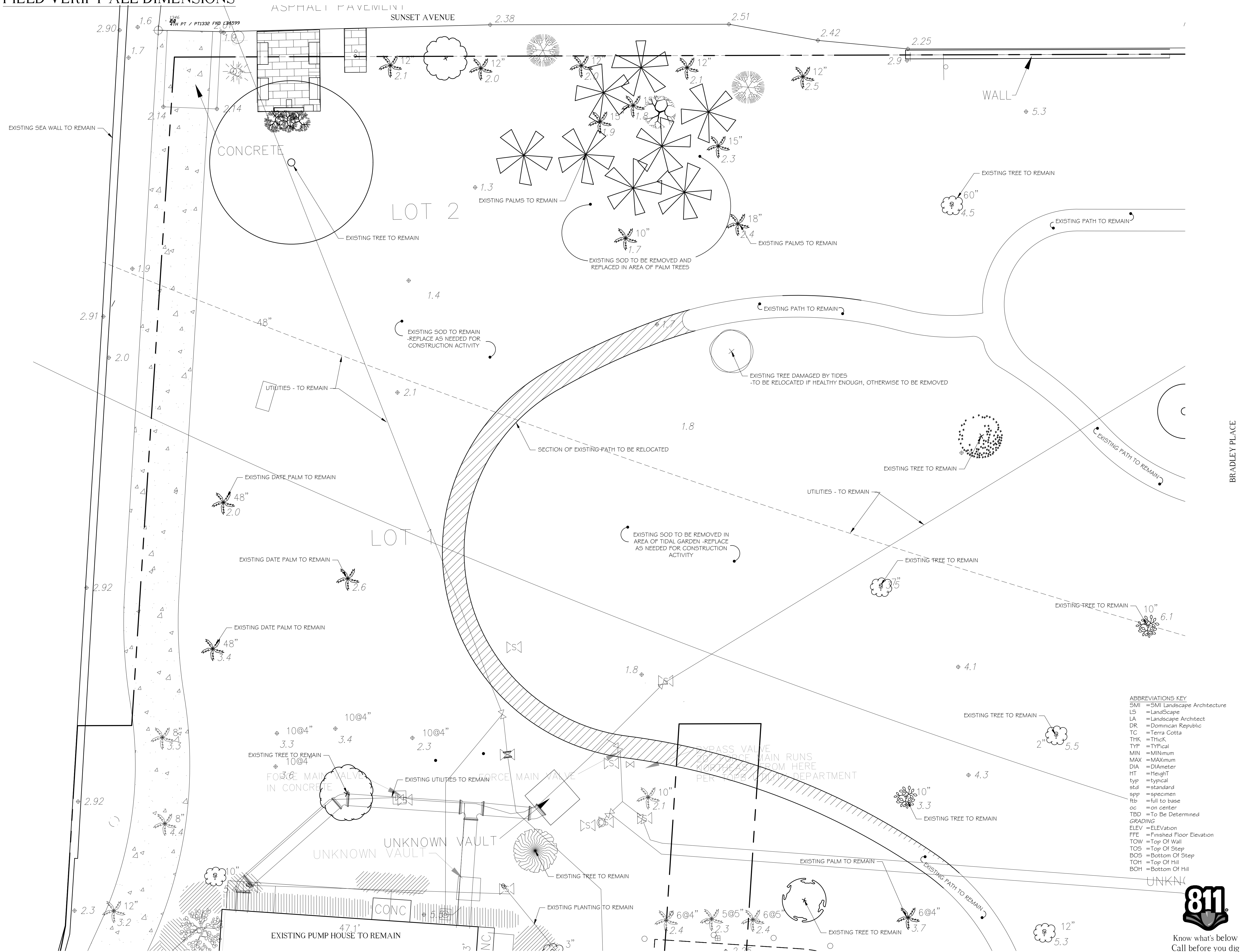
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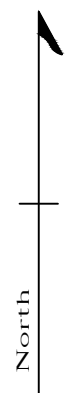
TITLE		
Planting Specs.		
SCALE	PROJECT NO.	
NONE	0000	
DATE:	PRJCT MNGR	CHECKED:
08.03.2020	BSV	.
SEAL	DRAWING NO.	
	L 4.1 SHEET 8 OF 9	

FIELD VERIFY ALL DIMENSIONS



Bradley Park Tidal Garden

Palm Beach, FL



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NOTE:
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2.	08/03/2020	Bid set
1.	05/18/2020	Landmarks Submittal

DATE	DESCRIPTION
08/03/2020	Materials Removal Plan

COA-019-2020

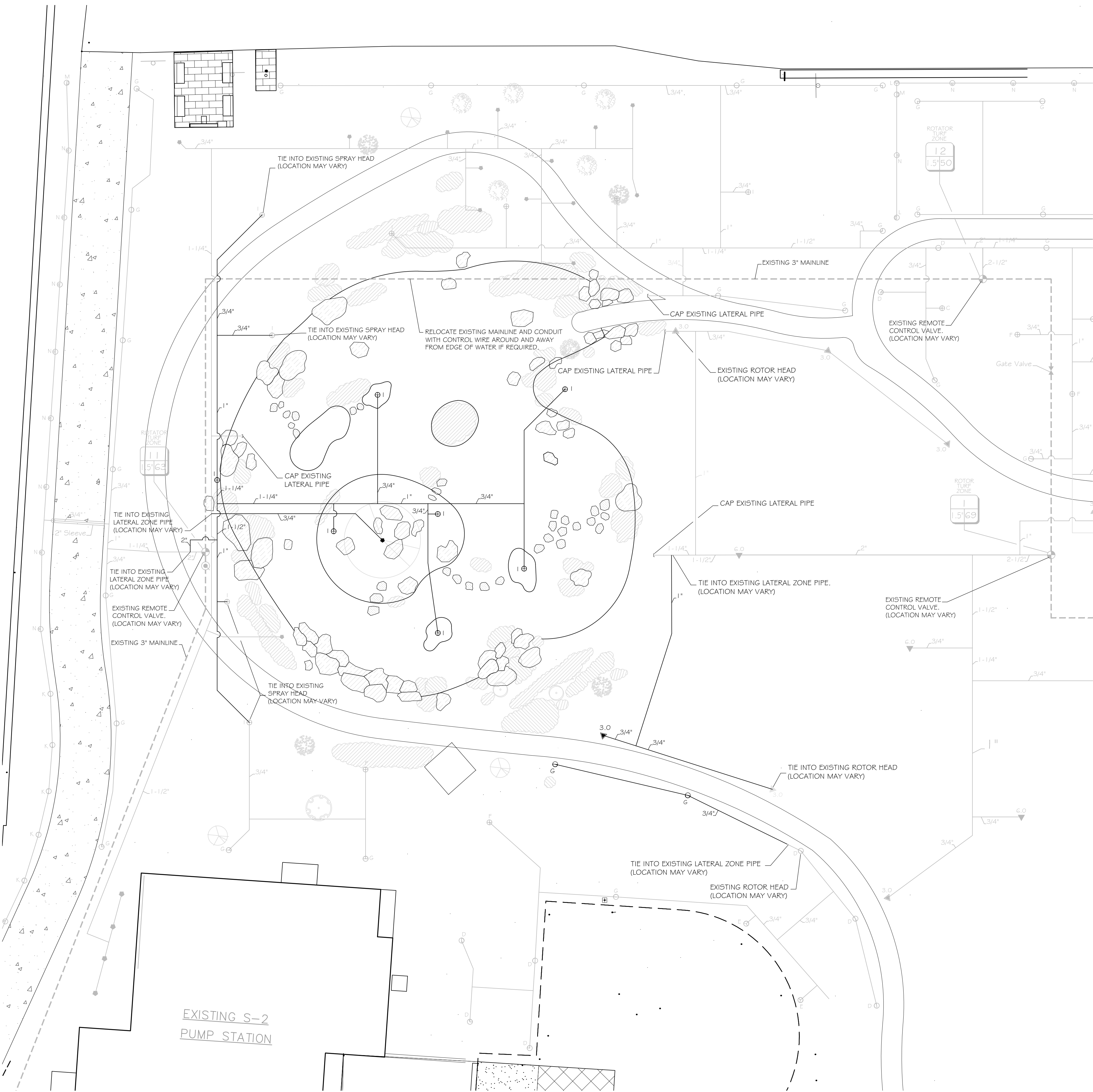
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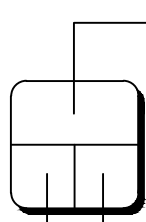
Materials Removal Plan

SCALE 1/8" = 1'-0"	PROJECT NO. 0000
DATE: 08.03.2020	PRJCT MNGR: BSV
SEAL	DRAWING NO. R-1 SHEET 9 OF 9

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Know what's below
Call before you dig.



VALVE NUMBER

VALVE SIZE

GALLONS PER MINUTE

VALVE DESIGNATION GUIDE

PIPE SIZING LEGEND

PIPE SIZE	GPM
3/4"	0-8
1"	9-12
1-1/4"	13-22
1-1/2"	23-30
2"	31-50
2-1/2"	51-70

MP ROTATOR NOZZLE LEGEND

A - HUNTER MP1000-90	RADIUS: 8' TO 14'
B - HUNTER MP1000-210	RADIUS: 8' TO 14'
C - HUNTER MP1000-360	RADIUS: 8' TO 14'
D - HUNTER MP2000-90	RADIUS: 13' TO 19'
E - HUNTER MP2000-210	RADIUS: 13' TO 19'
F - HUNTER MP2000-360	RADIUS: 13' TO 19'
G - HUNTER MP3000-90	RADIUS: 22' TO 30'
H - HUNTER MP3000-210	RADIUS: 22' TO 30'
I - HUNTER MP3000-360	RADIUS: 22' TO 30'
J - HUNTER MP3500-90	RADIUS: 31' TO 35'
K - HUNTER MP8005R-90	RADIUS: 6' TO 10'
L - HUNTER MPLCS515	RADIUS: 5' TO 15'
M - HUNTER MPRCS515	RADIUS: 5' TO 15'
N - HUNTER MPSS530	RADIUS: 5' TO 30'
O - HUNTER MPCORNER	RADIUS: 8' TO 14'

Irrigation Equipment Table

Irrigation Heads			
Quantity	Symbol	Description	Radius
9	⊕⊕	Hunter Model PROS-OG-PRS40-CV with MP Rotator Nozzle	8 ft - 35 ft
1	3.0 ▼	Hunter Model PGP-04-PRB with 3.0 Nozzle	28 ft - 38 ft

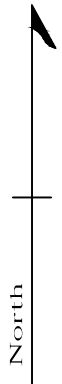
Pressure Compensating Bubbler - (3 Per Tree)			Flow
Quantity	Symbol	Description	
3	●	Hunter Model PCB10	1 GPM

Existing Irrigation Modification Notes:

1. This irrigation modification design plan was based on the Irrigation Plan provided by SMI Landscape Architecture, dated 1-18-2017.
2. Contractor shall excavate and connect into the existing irrigation lateral lines at the approximate locations shown on plan.
3. Although every reasonable effort has been made to ensure the accuracy of the location of the existing irrigation components, absolute accuracy cannot be guaranteed.
4. All safety precautions and procedures shall be implemented to ensure a safe environment.

Bradley Park
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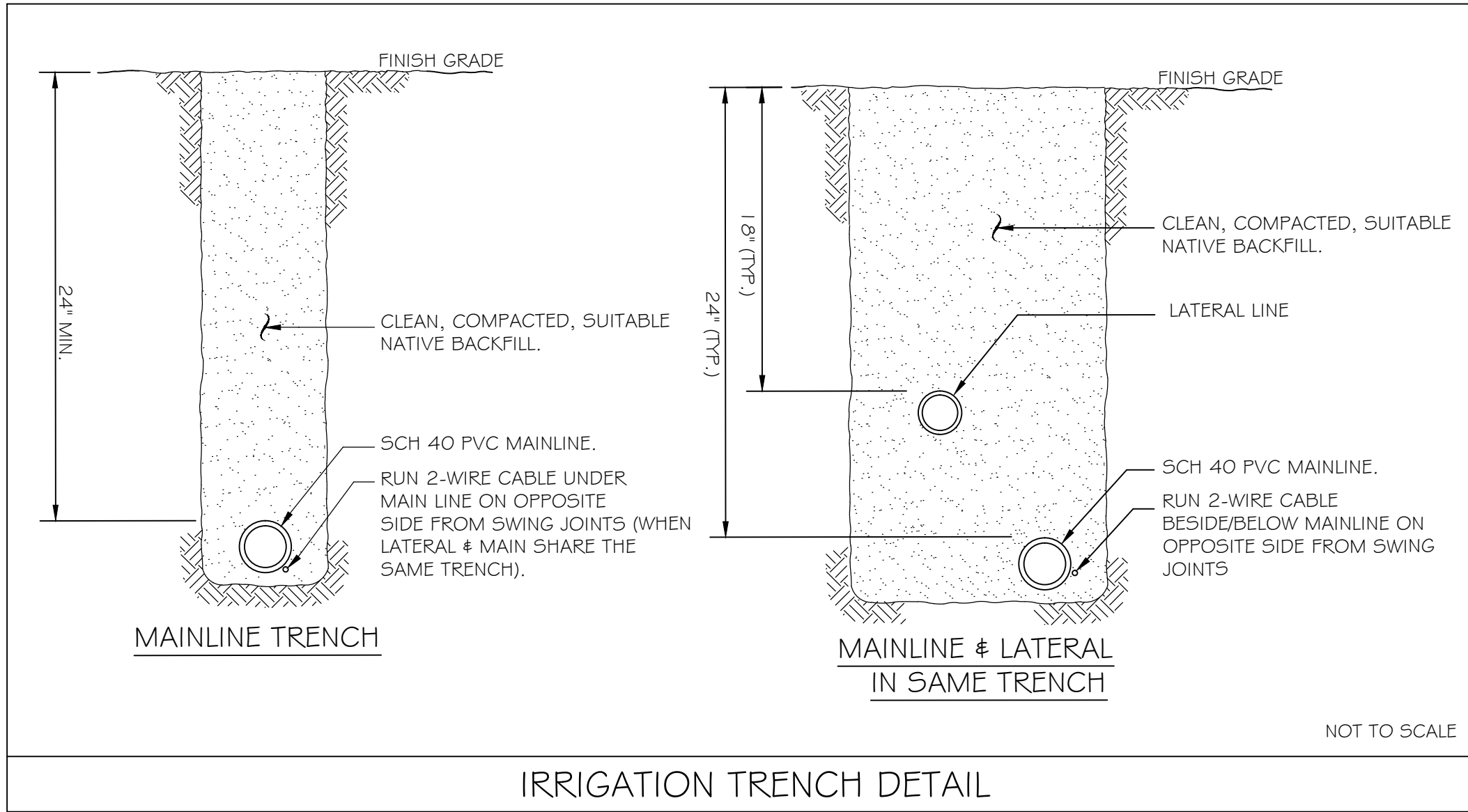
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TITLE		
Irrigation Plan		
SCALE 1" = 10'-0"	PROJECT NO. 0000	
DATE 06.28.2020	PRJCT MNGR. BSV	CHECKED.
SEAL	DRAWING NO. IR-1 SHEET 1 OF 3	

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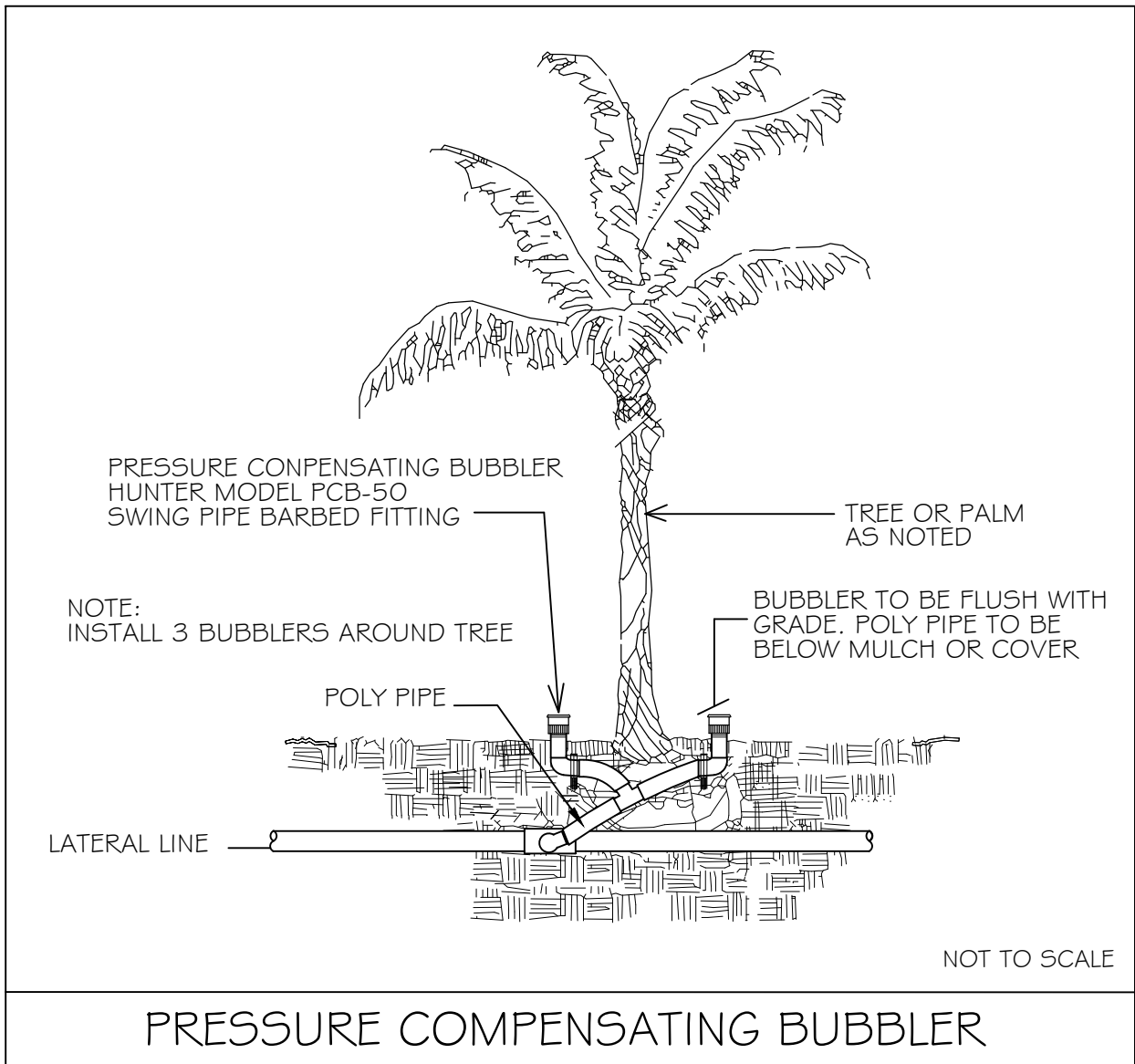
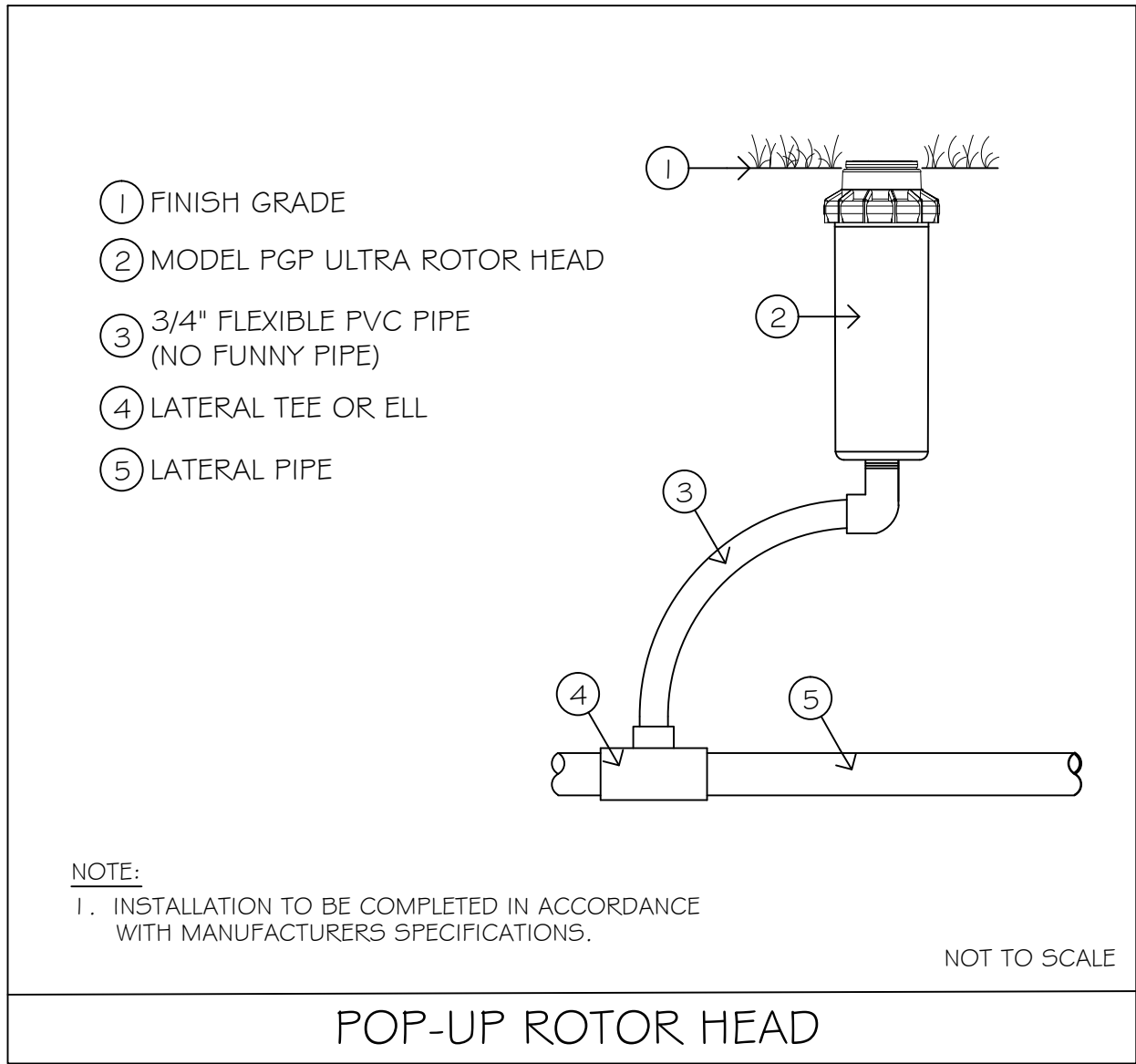
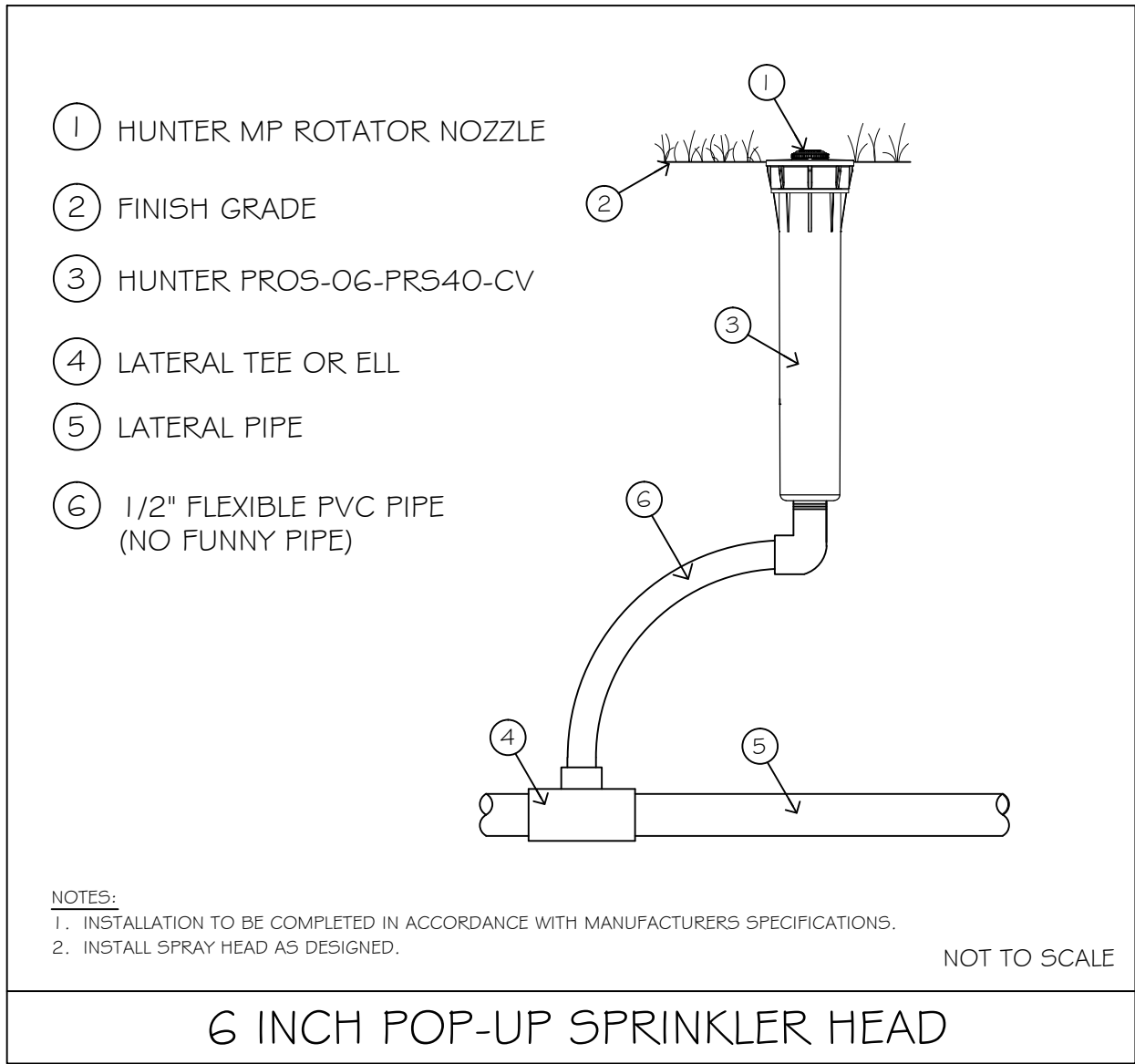
NOTES:

1. PIPING:
MAIN LINES: 3 INCH SCHEDULE 40 PVC
ZONE LINES: PVC, 1/2" IS NOT USED, 3/4" # GREATER USE SCH. 40 PVC
DECODER CABLE CONDUIT: 1 INCH SCHEDULE 40 PVC
SWING JOINTS: 1/2" AND 3/4" FLEXIBLE PVC PIPE ONLY, NO POLYETHYLENE PIPE ALLOWED.
ALL SLEEVES UNDER VEHICULAR USE PAVEMENT SHALL BE SCH 40 WITH 30" MINIMUM COVER.
ALL SLEEVES UNDER DRIVEWAYS SHALL BE SCH 40 WITH 30" MINIMUM COVER.
TERMINATE ALL EMPTY SLEEVES INTO VALVE BOXES FOR FUTURE ACCESS.
2. FITTINGS:
MAIN LINES: SCHEDULE 40 PVC, ZONE LINES: SCH. 40 PVC
FABRICATION: SQUARE CUT, CLEAN ALL JOINTS. USE CLEANER ON ALL LATERALS. USE GRAY PVC CEMENT. FULLY ENGAGE ALL JOINTS.
ALL FABRICATION SHALL BE TO MANUFACTURERS SPECS.
ALLOW ALL MAIN LINES TO CURE FOR 24 HOURS BEFORE PRESSURIZING.
ALL PIPE, FITTINGS, AND SOLVENTS TO CONFORM TO LATEST ASTM SPECS.
USE FLEXIBLE PVC SOLVENT CEMENT ON FLEXIBLE PVC PIPE TO PVC FITTINGS.
3. DEPTH OF LINES: MAIN LINE AND WIRING = 24" MIN. DEPTH, 36" MIN. DEPTH IN FDOT RIGHT OF WAY.
ZONE LINES 2 INCHES AND OVER = 18" MIN. DEPTH; ZONES LINES UNDER 2 INCHES = 12" MIN. DEPTH.
4. CONTROL WIRES: 2-WIRE PATH SHALL BE 14 AWG. DUAL CONDUCTOR. SOLID CORE. 600 VOLT. INSULATED IN PVC.
WITH POLYETHYLENE OUTER JACKET.
INSTALL ALL DECODER WIRE IN 1" SCHEDULE 40 PVC CONDUIT.
MAKE ALL SPLICES INSIDE VALVE BOX USING MOISTURE PROOF USING 3M DBRY CONNECTORS.
5. VALVE BOXES: ALL VALVE BOXES MUST BE 14" X 19" MODEL NDS-314B WITH GREEN COVER UNLESS OTHERWISE NOTED.
6. ALL LINES SHALL BE BACKFILLED AND COMPACTED TO ORIGINAL DENSITY. FLUSH ALL LINES BEFORE INSTALLING DEVICES TO PIPING. USE SCREENS IN ALL HEADS. ADJUST HEADS FOR PROPER COVERAGE.
7. ALL DETAILS ARE GRAPHICALLY SHOWN ONLY. ALL QUANTITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION.
THIS SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASSURE COMPLETE OVERLAPPING COVERAGE. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND LANDSCAPE ARCHITECT BEFORE PROCEEDING. CODES AND LOCAL REGULATIONS SHALL TAKE PRECEDENCE OVER THESE PLANS, THE LANDSCAPE ARCHITECT/DESIGNER RESERVES THE RIGHT TO MAKE MINOR FIELD CHANGES, THE CONTRACTOR MAY FIELD ADJUST SPRAY NOZZLE SELECTION TO PROVIDE PROPER COVERAGE.
8. PROVIDE OWNER WITH AN ACCURATE 'AS INSTALLED' PLAN AT COMPLETION SHOWING MAIN LINES, WIRING, VALVES, CROSSINGS, ETC. USING DIMENSIONS FROM FIXED DATUMS.
9. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK.
10. THE DESIGNER CANNOT BE HELD RESPONSIBLE FOR ANY MATTER, ACT, OR EFFECT ARISING FROM OVERSPRAY, BROKEN PIPES, HEADS OR NOZZLES. IN THE EVENT OF A BREAK OR BROKEN OFF HEAD OR NOZZLE, THE COMPONENT SHALL BE REPAIRED/REPLACED, CAPPED, OR ZONE TURNED OFF FROM AUTOMATIC OPERATION AS SOON AS POSSIBLE.
11. THE DESIGNER DOES NOT WARRANT THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR, IF SHOWN, ARE PROPERLY LOCATED ON THE PLANS, AND ARE EITHER IN SERVICE OR ABANDONED. THE CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL" AT (800) 432-4770 TO VERIFY UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO DIGGING. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT/LOCATE OTHER UTILITIES NOT SUBSCRIBING TO 'SUNSHINE STATE ONE CALL'. ALSO CALL APPLICABLE LOCAL UTILITY AGENCY TO VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES AND RELEVANT GOVERNMENT DEPARTMENTS AND ENSURING ALL UTILITIES LOCATED ABOVE, ON, OR BELOW THE SURFACE OF THE SITE ARE PROPERLY DISCOVERED, IDENTIFIED, VERIFIED, AND FIELD LABELED, AND ENSURING THOSE SAME UTILITIES ARE AT ALL TIMES SAFELY CONTROLLED AND PROTECTED BY REASONABLE MEANS.
13. LOCATE POP-UP SPRINKLERS 6" MINIMUM FROM EDGE OF WALKWAY, 18" MINIMUM FROM WALLS AND EDGE OF ROAD OR PARKING AREA. LOCATED SHRUB RISERS 18" MINIMUM FROM WALKWAY, WALLS AND EDGE OF ROAD OR PARKING AREA.
14. ALL DAMAGED OCCURRED BY THE CONTRACTOR SHALL BE REPLACED/REPAIRED IN A TIMELY MATTER PER TOWN OF PALM BEACH STANDARDS.

Bradley Park Tidal Garden

Palm Beach, FL

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TITLE		
Irrigation Details & Notes		
SCALE	PROJECT NO.	
	0000	
DATE	PRJCT MNGR.	CHECKED
06.28.2020	BSV	
SEAL	DRAWING NO.	
	IR-2	
	SHEET 2 OF 3	

FIELD VERIFY ALL DIMENSIONS

IRRIGATION SYSTEM SPECIFICATIONS

PART 1 -GENERAL

1.01 SCOPE OF WORK:

THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, ETC... TO COMPLETE ALL IRRIGATION WORK AS SHOWN ON THE DRAWINGS, AND AS HEREIN SPECIFIED WORK SHALL INCLUDE ALL CONSTRUCTION AND MAINTENANCE/WATERING OF ALL IRRIGATION AREAS OF THIS CONTRACT UNTIL ACCEPTED BY THE OWNER. WORK SHALL INCLUDE THE FOLLOWING:

- A. ALL PIPING, INCLUDING MAINS, LATERALS, FITTINGS, CONNECTIONS, TEES, RISERS, CLAMPS, SWING JOINTS, HOSE BIBS.
- B. ALL CONTROL, GATE, OR OTHER VALVES, INCLUDING VALVE BOXES, MARKERS, CONNECTIONS, BACK FLOW PREVENTERS, OPERATORS, AND OTHER ACCESSORIES.
- C. COMPLETE AUTOMATIC CONTROL SYSTEM AS SHOWN ON THE DRAWINGS, INCLUDING CONTROLLER, CONTROL WIRING CONNECTIONS AND ELECTRICAL CONNECTIONS.
- D. ALL SPRINKLER HEADS, INCLUDING PROPER NOZZLES AS CALLED FOR HEREIN AND SHOWN ON THE PLANS AND ALL OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR PROPER OPERATION.
- E. ALL EXCAVATION, SITE WORK, RELOCATION OR REPLACEMENT OF UTILITIES, BACK FILL AND RESTORATION OF ALL DISTURBED AREAS INCLUDING THE CUTTING, BACK FILLING AND RESURFACING OF ANY ASPHALT AREAS TRENCHED FOR PIPES AND SLEEVING.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERABLE SYSTEM FOR THE IRRIGATION OF ALL LANDSCAPING ON THE PROJECT SITE. PLANS AND SPECIFICATIONS MAY NOT INDICATE ALL ITEMS NECESSARY FOR THE PROPER IRRIGATION OF THE PROJECT. THIS SHALL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO FURNISH LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND PROPER SYSTEM.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING HEAD LOCATION AND ANY OTHER SYSTEM COMPONENTS TO INSURE 100% COVERAGE AND TO COMPLY WITH THE REQUIREMENTS OF THE LANDSCAPING AS INSTALLED.

1.02 SUBMITTALS:

- A. THE CONTRACTOR SHALL MAKE ALL SUBMITTALS IN ACCORDANCE WITH THE GENERAL CONDITIONS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRODUCT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. INCLUDE OTHER DATA AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS.
- B. SUBMIT COPIES OF MANUFACTURER'S TECHNICAL DATA AND INSTALLATION INSTRUCTIONS FOR THE IRRIGATION SYSTEM.
- C. PROVIDE SHOP DRAWINGS SHOWING ACTUAL LAYOUT OF CONTROL EQUIPMENT, AND OTHER ACCESSORIES, INCLUDING ELECTRICAL WIRING BETWEEN THE CONTROL EQUIPMENT AND ALL OTHER RELATED COMPONENTS.
- D. PROVIDE AND KEEP UP TO DATE A COMPLETE SET OF DRAWINGS, CORRECTED DAILY TO SHOW CHANGES IN THE LOCATION OF SPRINKLERS, CONTROLLERS, PIPING, AND OTHER DEVIATIONS FROM THE IRRIGATION DESIGN DRAWING. SHOW REMOTE CONTROL VALVE LOCATIONS WITH ACTUAL MEASUREMENTS TO REFERENCE POINTS SO THEY MAY BE LOCATED EASILY IN THE FIELD. UPON COMPLETION OF THE WORK, FURNISH THE OWNER WITH A COMPLETE SET OF PLANS SHOWING THE IRRIGATION SYSTEM AS INSTALLED.

E. ALL DIMENSIONS INDICATED FOR THE IRRIGATION DESIGN ARE APPROXIMATE. PRIOR TO PROCEEDING WITH THE WORK, CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL VARIATIONS FROM THOSE INDICATED IN THE IRRIGATION PLAN TO THE OWNER IN WRITING.

1.03 GENERAL REQUIREMENTS

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE SYSTEM IN COMPLETE ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS OR ANY MODIFICATIONS MADE TO CONFORM WITH SAID CODES, LAWS AND ORDINANCES SHALL BE COMPLETED AT THE CONTRACTORS EXPENSE AT NO ADDITIONAL COST TO THE OWNER.
- B. THE CONTRACTOR SHALL HAVE HIS LABOR CREWS CONTROLLED AND DIRECTED BY AN IRRIGATION FOREMAN WELL VERSED IN STANDARD PLUMBING PROCEDURES, PVC ASSEMBLY PROCEDURES, READING BLUEPRINTS AND COORDINATION WITH OTHERS PERFORMING SERVICES IN THE JOB AREAS IN ORDER TO EXECUTE INSTALLATION RAPIDLY AND CORRECTLY. THE FOREMAN SHALL BE ON THE WORK SITE AT ALL TIMES, AND SHALL BE FULLY AUTHORIZED AS THE CONTRACTORS AGENT ON THE JOB.
- C. TESTING: THE CONTRACTOR SHALL REPLACE ALL WORK THAT FAILS THE TESTING REQUIREMENTS OR THAT WAS INSTALLED IN VIOLATION OF THE STANDARDS OUTLINED IN THESE SECTION.
- D. CONTRACTOR'S RESPONSIBILITY:
 - 1. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE WORK UNTIL THE WORK IS DETERMINED TO BE SUBSTANTIALLY COMPLETE.
 - 2. THE CONTRACTOR SHALL PROTECT ALL MATERIALS AND WORK AGAINST INJURY FROM ANY CAUSE AND SHALL PROVIDE AND MAINTAIN ALL NECESSARY GUARDS FOR THE PROTECTION OF THE PUBLIC. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY NEGLIGENCE IN THE PROTECTION OF THE WORK.
 - 3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLANS AND PROVIDING PROPER PROTECTION FOR THE UTILITIES. ANY CHARGES OR FINES ASSESSED BY DISRUPTING A UTILITY ARE THE RESPONSIBILITY OF THE CONTRACTOR.

1.04 DELIVERY, STORAGE AND HANDLING

- A. MATERIALS DELIVERED TO THE SITE SHALL BE LEFT IN THEIR ORIGINAL BOXES, WRAPPINGS OR CONTAINERS UNTIL SUCH TIME AS THEY ARE EMPLOYED IN THE PROJECT CONSTRUCTION. THIS PROVISION DOES NOT INCLUDE UNPACKING FOR INSPECTION PURPOSES.
- B. ANY SUBSTITUTIONS MADE FOR REASONS OF UNAVAILABILITY OF MATERIALS OR OTHER REASONS MUST BE APPROVED BY THE OWNER.
- C. ALL MATERIAL AND MANUFACTURER WARRANTIES AND GUARANTEES SHALL BE GIVEN TO THE OWNER AT THE FINAL ACCEPTANCE OF THE PROJECT.

PART 2 - MATERIALS

2.01 PIPE

- A. ALL PIPE SHALL BE NEW AND FREE FROM DEFECTS, AND CONTINUOUSLY MARKED WITH IDENTIFICATION OF THE MANUFACTURER, TYPE, CLASS AND SIZE.
 - B. PLASTIC PIPE FOR THE MAINLINES, LATERAL LINES AND ALL SLEEVES, SHALL BE SCHEDULE 40 UNPLASTICIZED POLYVINYL CHLORIDE PIPE, SOLVENT WELD TYPE. ALL FITTINGS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE PVC, MINIMUM OF SCHEDULE 40. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM CLEAN, VIRGIN, NSF APPROVED TYPE 1, GRADE 1, PVC, CONFORMING TO ASTM RESIN SPECIFICATIONS D1784 AND D2241.
 - C. ALL TAPS ON MAIN OR LATERALS SHALL BE MADE WITH TEES. ALL NON-THREADED TYPE JOINTS SHALL BE SOCKET TYPE, DESIGNED FOR SOLVENT TYPE APPLICATION.
 - D. PRIOR TO THE CONNECTION OF ANY JOINT WITH PVC GLUE, THE FITTING AND PIPES SHALL BE TREATED WITH A HIGH ETCH PVC CLEANER. THE CLEANER AND SOLVENT USED SHALL BE COMPATIBLE WITH THE PVC PIPE USED. SCREW JOINTS SHALL BE MADE WITH AN ACCEPTABLE SCREW JOINT PIPE JOINT COMPOUND. UPON COMPLETION OF GLUE JOINTS, THE IRRIGATION SYSTEM SHALL REMAIN OUT OF SERVICE FOR THE PERIOD OF TIME SPECIFIED BY THE GLUE MANUFACTURER.
 - E. ALL SLEEVES SHALL BE 2 NOMINAL PIPE SIZES LARGER THAN THE SIZE OF PIPE TO BE ACCOMMODATED.

2.03 CONTROL WIRING

- A. IRRIGATION SYSTEM WIRING: THE WIRE PATH SHALL BE TWISTED PAIR, SOLID CORE, COLOR-CODED RED/BLUE PAIRS, ENCLOSED IN A PE SLEEVE AVAILABLE IN 6 DIFFERENT COLORS FOR IN-GROUND IDENTIFICATION. THE TWO-WIRE PATHS SHALL BE HUNTER MODEL ID1Y1W FOR 14 AWG CONDUCTORS.
- B. THE TWO-WIRE PATHS MAY BE SPLICED, PERMITTING EXTENSIONS OF THE PATH IN MULTIPLE DIRECTIONS. THE DISTANCE FROM THE CONTROLLER TO THE END OF ANY ONE END OF WIRE RUN SHALL NOT EXCEED THE MAXIMUM FOR THE GAUGE OF WIRE, EVEN IF THE TOTAL OF ALL WIRE EXCEEDS THAT NUMBER.
- C. ALL SLICES MUST BE MADE IN A VALVE BOX WITH DBR-6 OR EQUAL DIRECT BURIAL WATERPROOF CONNECTORS.

2.04 SPRINKLER HEADS

- A. PROVIDE ALL SPRINKLERS AND BUBBLERS AS MANUFACTURED BY HUNTER.
- B. ALL SPRINKLER NOZZLES SHALL PERFORM TO THE MANUFACTURERS SPECIFICATIONS CONCERNING DIAMETER OF THROW AND GALLONAGE AT GIVEN PRESSURES.

PART 3 - EXECUTION

3.01 TRENCHING

- A. PERFORM ALL EXCAVATION NECESSARY TO INSTALL THE SYSTEM AS INDICATED ON DRAWINGS, INCLUDING ALL NECESSARY CLEARING AND GRUBBING OF ANY FOREIGN SUBSTANCE ENCOUNTERED IN TRENCH AREA. FILL EXCAVATION MATERIAL SUITABLE FOR BACK FILL AT A SUFFICIENT DISTANCE FROM TRENCH TO AVOID OVERLOADING, SLIDES AND/OR CAVE-INS. DISPOSE OF, OFF SITE, ALL ORGANIC OR UNSUITABLE FILL MATERIALS REMOVED DURING EXCAVATION. PROVIDE ADDITIONAL SUITABLE FILL MATERIALS REQUIRED FOR BACK FILLING OF EXCAVATED AREAS.
- B. MAKE TRENCH BOTTOMS SMOOTH, CLEAN AND FREE OF ALL STONES, STUMPS AND ORGANIC MATTER. IF SUCH MATERIALS ARE ENCOUNTERED IN TRENCHING, EXCAVATE TRENCH 6 INCHES DEEPER THAN ORDINARILY REQUIRED AND SPREAD A 6" LAYER OF SAND TO PROVIDE A FIRM BEDDING FOR THE PIPE.
- C. PROVIDE 24" COVER OVER MAINLINES, 36" MINIMUM COVER OVER MAINLINES IN FOOT RIGHT OF WAY, 18" MINIMUM DEPTH OF COVER OVER 2" AND LARGER LATERAL PIPE AND 12" MINIMUM COVER OVER 1-1/2" AND SMALLER LATERAL PIPE.
- D. EXCAVATE TRENCHES TO A WIDTH TO ALLOW A MINIMUM OF 6" BETWEEN PARALLEL PIPE LINES.

3.02 BACK FILLING

- A. BACK FILL OVER-EXCAVATION OF TRENCHES UNDER PIPE WITH CLEAN, SANDY FILL MATERIAL, FREE OF ORGANIC MATERIALS AND OBJECTS LARGER THAN 1/4" DIAMETER. BACK FILL ONLY AFTER PRESSURE TESTING.
- B. BACK FILL TRENCHES FROM 2" ABOVE TOP OF PIPE UP TO FINISH GRADE WITH CLEAN SANDY FILL MATERIAL REMOVED BY EXCAVATION.
- C. NO PAVEMENT EXCEPT AS NOTED, SHALL BE CUT TO INSTALL IRRIGATION WORK. COORDINATE WITH PAVING OPERATION TO ASSURE ALL SLEEVES ARE INSTALLED UNDER DRIVES AND WALKWAYS PRIOR TO PAVING.

3.03 INSTALLATION

- A. INSTALL ALL MATERIALS AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIALS. THE OWNER RETAINS THE RIGHT TO ORDER REMOVAL OF REPLACEMENT OF ANY ITEM WHICH, IN HIS OPINION, DO NOT PRESENT A REASONABLE NEAT AND WORKMANLIKE APPEARANCE. PERFORM AND COMPLETE ANY REQUIRED REMOVAL AND REPLACING OF MATERIALS WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- B. INDIVIDUALLY SLEEVE ALL PVC PIPING THAT CROSS WALKWAYS AND PATHWAYS MORE THAN 5 FEET IN WIDTH. ALL SLEEVES UNDER ROADWAYS AND WALKWAYS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE.
- C. TERMINATE ALL EMPTY SLEEVES INTO VALVE BOXES FOR FUTURE ACCESS.
- D. INSTALL ALL VALVE BOXES, OR ANY OTHER MISCELLANEOUS MARKER OR ACCESS BOX SO THE TOP OF SAID STRUCTURE IS AT FINISHED GRADE UNDER LAID WITH A MINIMUM OF 6" OF 3/4" GRAVEL. INSTALL ALL VALVE BOXES AS INDICATED ON DRAWINGS.

3.04 PIPING

- A. PVC PIPE SHALL BE PROTECTED FROM DIRECT SUNLIGHT WHILE IN STORAGE. PIPE SHALL BE KEPT CLEAN AND CHECKED FOR PRESENCE OF ORGANIC OR FOREIGN MATERIAL PRIOR TO INSTALLATION. EACH PIPE SHALL BE LAID IN ACCORDANCE WITH LINES SHOWN ON THE DRAWINGS.
 - B. PRIOR TO BACK FILL, PVC PIPE IN TRENCH SHALL BE PROTECTED FROM DIRECT SUNLIGHT BY COVERING WITH A LAYER OF CLEAN SANDY MATERIAL. PIPE SHALL ALSO BE COVERED WITH FILL MATERIAL, OTHERWISE ANCHORED, TO PREVENT FLOATING IN EVENT WATER ENTERS TRENCH PRIOR TO COMPLETE BACKFILLING.
 - C. SUBSTANTIAL DEVIATION FROM THE PIPING LAYOUT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND SHALL BE RECORDED AS WORK PROGRESSES AND AS-BUILT DRAWINGS OF COMPLETE IRRIGATION SYSTEM SHALL BE FURNISHED TO THE LANDSCAPE ARCHITECT OR OWNER AS PREVIOUSLY SPECIFIED IN THIS SECTION.
 - D. INSTALLATION OF SYSTEM PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SHALL PROCEED FROM POINT OF CONNECTION OF WATER SUPPLY. ALL PIPING AND EQUIPMENT JOINTS SHALL BE WATER TIGHT. THE MAIN LINE SHALL BE FLUSHED AND PRESSURE TESTED AS SPECIFIED PRIOR TO MAKING ANY LATERAL CONNECTIONS. ALL LATERAL LINES SHALL BE THOROUGHLY FLUSHED PRIOR TO INSTALLATION OF ANY SPRINKLER NOZZLES.

3.05 SPRINKLERS

- A. PRIOR TO INSTALLING SPRINKLER HEADS, FLUSH CIRCUIT LINES WITH WATER UNTIL FREE OF DEBRIS.
- B. ALL SPRINKLER HEADS SHALL BE INSTALLED ON SCH 40 FLEXIBLE PVC AS SHOWN ON THE DRAWINGS. THE SPRINKLER HEAD SHALL BE INSTALLED SO THAT THE TOP IS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION WITH RESPECT TO THE FINISHED GRADE LEVEL, AND MARKED WITH A FLAG TO ASSIST IN PREVENTING DAMAGE TO SPRINKLER HEADS. BACK FILL AROUND SWING JOINTS AND SPRINKLERS SHALL BE CLEAN SAND FILL MATERIAL FREE OF ROCKS, ORGANICS, OR OTHER FOREIGN DEBRIS.
 - C. LOCATE PART-CIRCLE HEADS TO MAINTAIN A MINIMUM DISTANCE OF 18" FROM WALLS AND 6" FROM OTHER BOUNDARIES, UNLESS OTHERWISE INDICATED.
 - D. ALL 1/2" POP-UP SPRINKLER HEADS LOCATED WITHIN PLANT MATERIAL OVER 12" IN HEIGHT SHALL BE INSTALL ON PVC RISERS WITH THE TOP OF SPRINKLER HEAD 2" - 4" BELOW TOP OF PLANT MATERIAL. THE PVC RISER PIPE SHALL BE PAINTED FLAT BLACK.
 - E. ALL BUBBLERS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE ROOT BALL OF THE TREE TO BE IRRIGATED. INSTALL PRODUCT WITH TOP EVEN WITH GROUND SURFACE.

3.06 ELECTRICAL COMPONENTS

- A. DECODER WIRE SHALL BE HUNTER ID1Y1W. PLACE ALL DECODER WIRE IN 1" SCHEDULE 40 PVC CONDUIT.
 - B. CONNECTIONS AT ALL REMOTE CONTROL VALVES AND AT ALL WIRE SPLICES, LEAVE WIRE WITH 6 FEET SLACK SO THAT IN CASE OF REPAIR THE VALVE BONNET OR SPLICE MAY BE BROUGHT TO THE SURFACE WITHOUT DISCONNECTING THE WIRES. SPLICE ALL WIRE IN VALVE BOXES. MAKE SPLICES USING UL LISTED WATERPROOF WIRE CONNECTORS AS RECOMMENDED BY THE WIRE MANUFACTURER.

3.07 TESTS

- A. PERFORM OPERATIONAL TESTING AFTER BACK FILL IS IN PLACE, AND SPRINKLER HEADS ARE ADJUSTED TO FINAL POSITION. DEMONSTRATE TO OWNER THAT SYSTEM MEETS COVERAGE REQUIREMENTS AND THAT AUTOMATIC CONTROLS FUNCTION PROPERLY. COVERAGE REQUIREMENTS ARE BASED ON OPERATION OF ONE CIRCUIT AT A TIME.
 - B. AFTER COMPLETION OF GRADING, SEEDING OR SODDING, AND ROLLING OF GRASS AREAS, CAREFULLY ADJUST LAWN SPRINKLER HEADS SO THAT THEY WILL BE FLUSH WITH FINISH GRADE.
 - C. ADJUST THE VARIOUS COMPONENTS OF THE SPRINKLER SYSTEM SO THE OVERALL OPERATION OF THE SYSTEM IS EFFICIENT. BALANCING AND ADJUSTMENT SHALL INCLUDE A SYNCHRONIZATION OF THE CONTROLLERS, WATER QUALITY CONTROL EQUIPMENT, SPRINKLER HEADS, AND INDIVIDUAL STATION ADJUSTMENTS ON THE CONTROLLERS.

D. UPON COMPLETION OF THE WORK AND FINAL ACCEPTANCE BY THE OWNER, TRAIN MAINTENANCE PERSONNEL IN THE OPERATION, MAINTENANCE, AND REPAIR OF THE SYSTEM. PROVIDE COPIES OF MATERIALS, ALL PARTS LISTS, TROUBLE SHOOTING LISTS, SPECIFICATIONS SHEETS, AND CATALOG SHEETS TO THE SCHEDULES AND PROGRAMMING OF THE AUTOMATIC CONTROLLERS IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR IRRIGATION DRAWINGS. SUBMIT ALL WARRANTY INFORMATION TO OWNER.

3.08 WARRANTY

A. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIALS, EQUIPMENT AND WORKMANSHIP. GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP TO THE SATISFACTORY OF THE OWNER. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

Bradley Park
Tidal
Garden

Palm Beach, FL

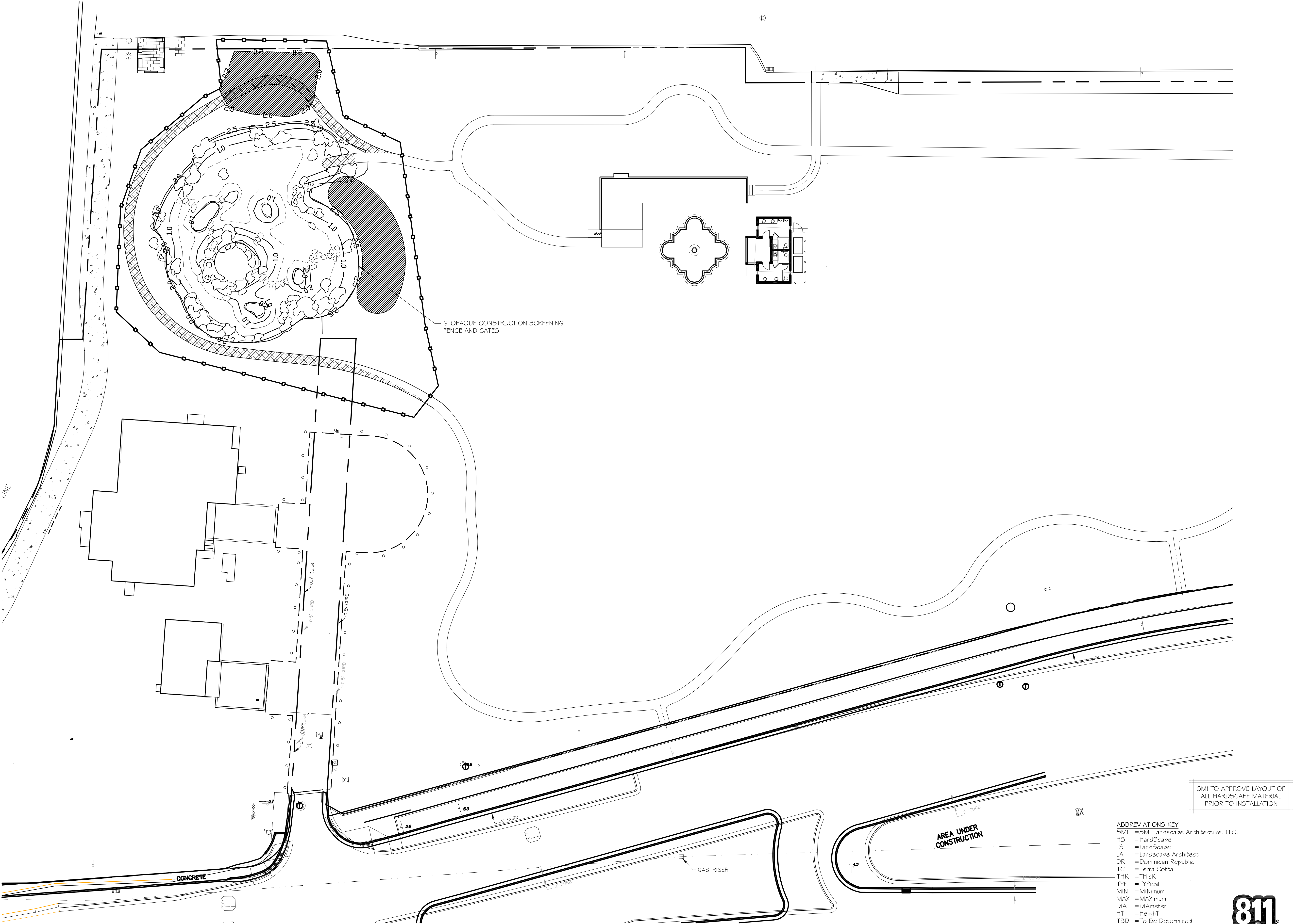
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NO.	DATE	DESCRIPTION
REVISIONS		
COA-019-2020		

SMI
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TITLE		
Irrigation Specifications		
SCALE	PROJECT NO. 0000	
DATE 06.28.2020	PRJCT MNGR. BSV	CHECKED.
SEAL	DRAWING NO. IR-3 SHEET 3 OF 3	

FIELD VERIFY ALL DIMENSIONS



- ABBREVIATIONS KEY
- SMI = SMI Landscape Architecture, LLC.
 - HS = HardScape
 - LS = LandScape
 - LA = Landscape Architect
 - DR = Dominican Republic
 - TC = Terra Cotta
 - THK = Thick
 - TYP = TYPical
 - MIN = MINimum
 - MAX = MAXimum
 - DIA = DIAMeter
 - HT = Height
 - TBD = To Be Determined
- GRADING
- ELEV = ELEVation
 - FFE = Finished Floor Elevation
 - TOW = Top Of Wall
 - TOS = Top Of Step
 - BOS = Bottom Of Step



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Bradley Park Tidal Garden

Palm Beach, FL



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NOTE:
-FOOTINGS FOR ALL STRUCTURES TO BE AT LEAST 3' BELOW GRADE TO ALLOW FOR PLANTINGS / ROOT BALLS

2. 08/03/2020 Bid set
1. 05/18/2020 Landmarks Submittal

REVISIONS

COA-019-2020

SMI

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TITLE		
Construction Screening		
SCALE	PROJECT NO.	
1" = 20'-0"	0000	
DATE:	PRJCT MNGR:	CHECKED:
08.03.2020	BSV	.
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	CS- 1	
	SHEET 1 OF 1	