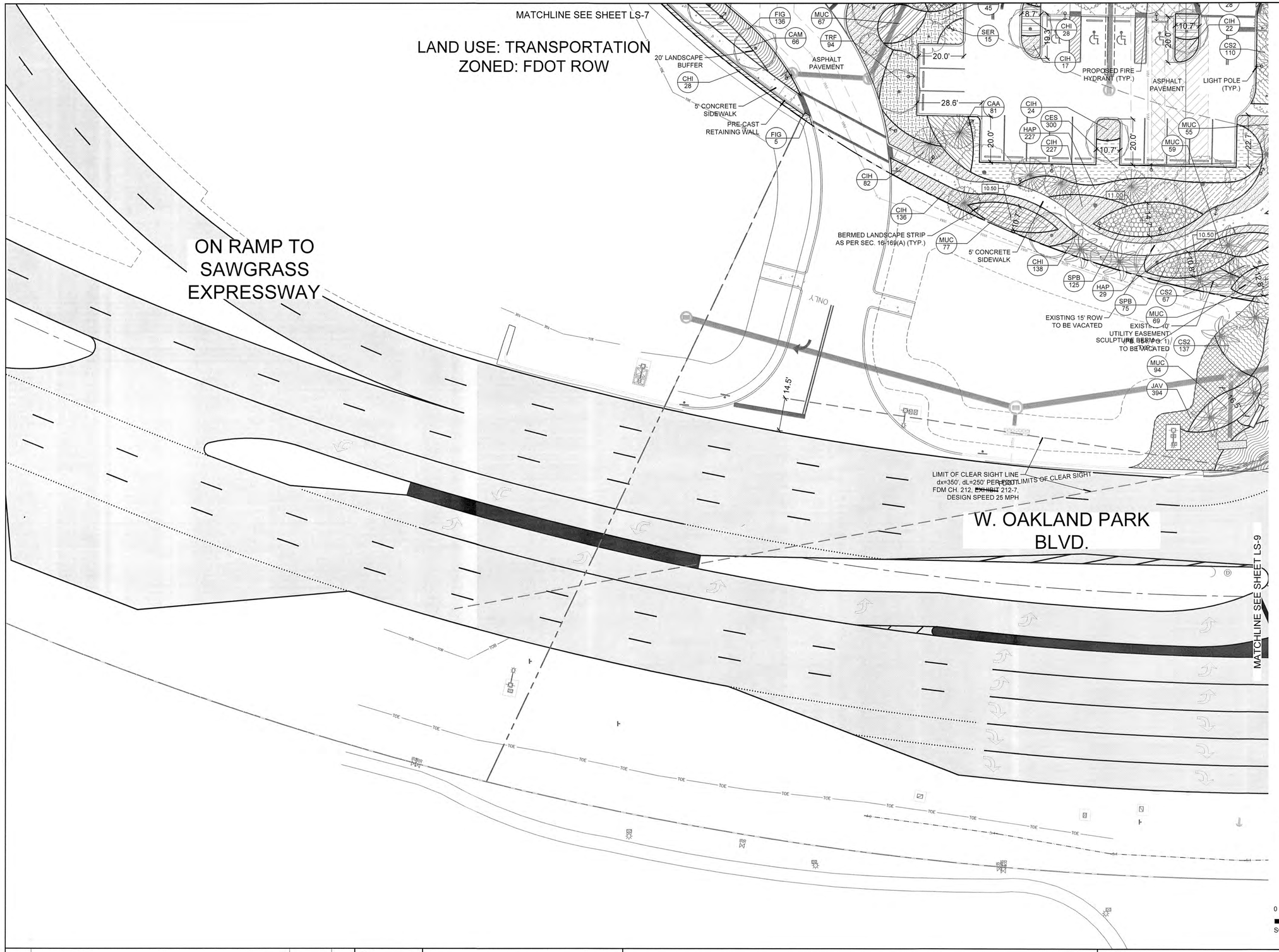

PLANT SCHEDULE		
SYMBOL	CODE	COMMON NAME
SHRUB AREAS		
	IRH	Dixie Iris
LOWER LEVEL SHRUB		
	ACD	Leather Fern
	AST	Butterfly Milkweed
	CAM	Natal Plum
	CIH	Horizontal Coco Plum
	FIG	Green Island Ficus
	HED	Dune Sunflower
	ILX	Schillings Dwarf Yaupon Holly
	IXP	Dwarf Red Taiwan Ixora
	JAV	Wax Jasmine
	MUC	Pink Muhly Grass
	NEE	Boston Fern
	RCC	Carolina Wild Petunia
	SPB	Sand Cordgrass
	TRF	Florida Gamagrass
MID LEVEL SHRUB		
	CHI	Red Tip Coco Plum
	CS2	Small Leaf Clusia
	CES	Silver Buttonwood
	HAP	Firebush
	MYC	Compact Simpson's Stopper
	SCP	Ixiaberry
	VIW	Walter's Viburnum
RAN GARDEN PLANTING		
	CRA	Swamp Lily
	CYI	Dwarf Papyrus
	HYL	Spider Lily
	JUE	Soft Rush
	PEV	Arrow Arum
	PCB	Blue Pickerel Weed
UPPER LEVEL SHRUB		
	AZV	Variegated Shell Ginger
	CAA	American Beautyberry
	CS3	Small Leaf Clusia
	CLR	Dwarf Pitch Apple
	HRF	Florida Sunset Chinese Hibiscus
	PSN	Wild Coffee
	SER	Saw Palmetto
GROUND COVERS		
	SOD 2	Bahiagrass
	SOD 1	St. Augustine 'Floratam'

NOTE:
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LEAD DESIGN
LANDSCAPE ARCHITECT:

SWA/Balsley

31 West 27th Street
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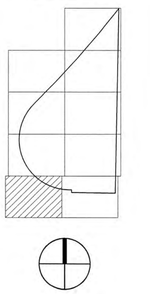
10001-6914
United States
www.swabalsley.com
+1.212.684.9230 o

KEY MAP



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SCALE: 1"=20'-0"

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CRAVEN THOMPSON AND ASSOCIATES, INC.
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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

BAPTIST HEALTH SUNRISE HOSPITAL

12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

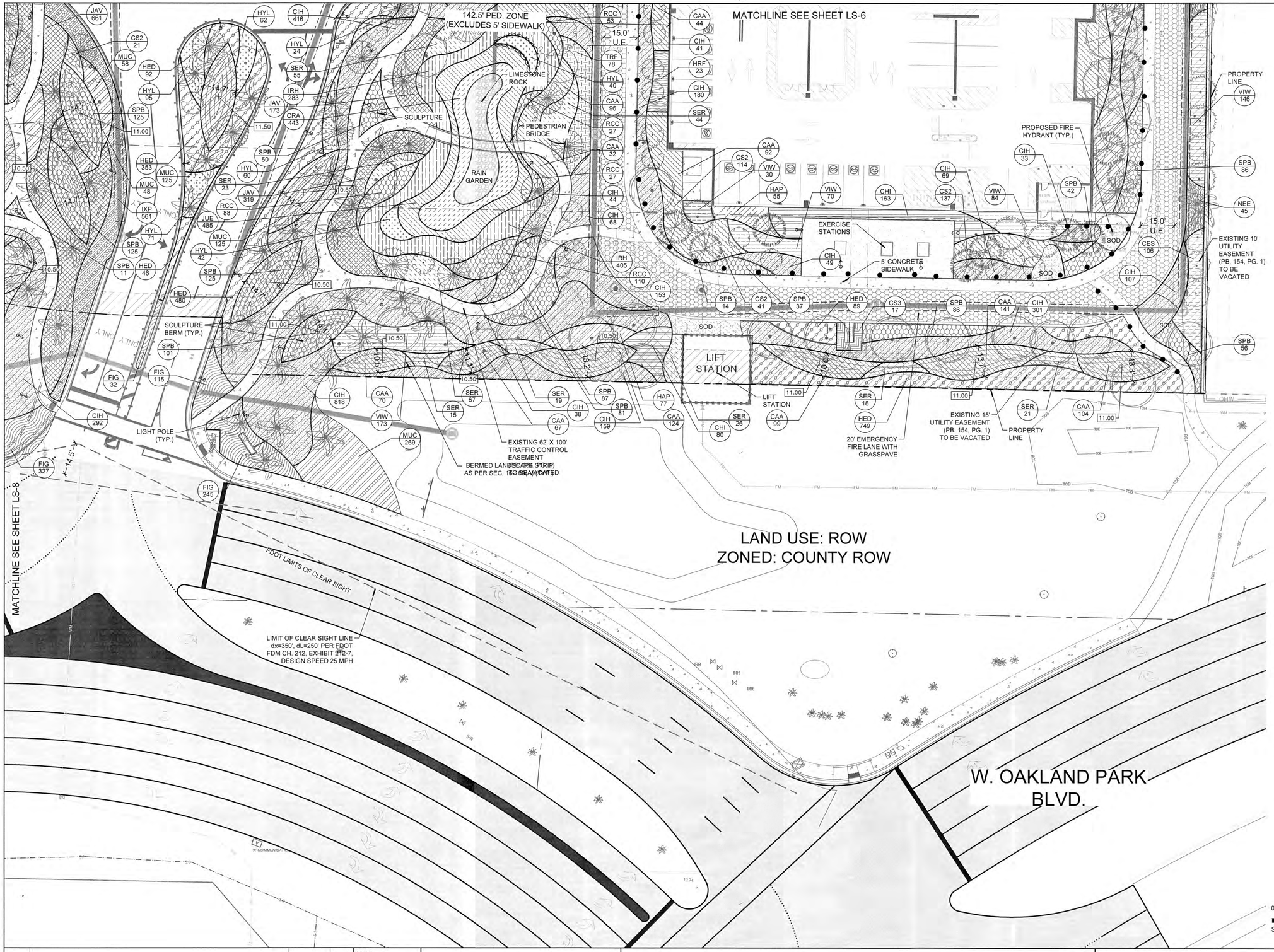
LANDSCAPE PLAN- UNDERSTORY

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666976 STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666976
July, 18 2024

DATE: 07/19/2024

PROJECT NO.: 99-0039-002-01

DRAWING NO.: LS-8



PLANT SCHEDULE		
SYMBOL	CODE	COMMON NAME
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	CS3	Small Leaf Clusia
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GROUND COVERS		
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	SOD 1	St. Augustine 'Floratam'

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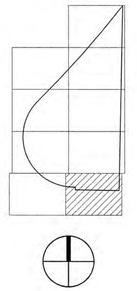

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Florida R.L.A. No. 6666976
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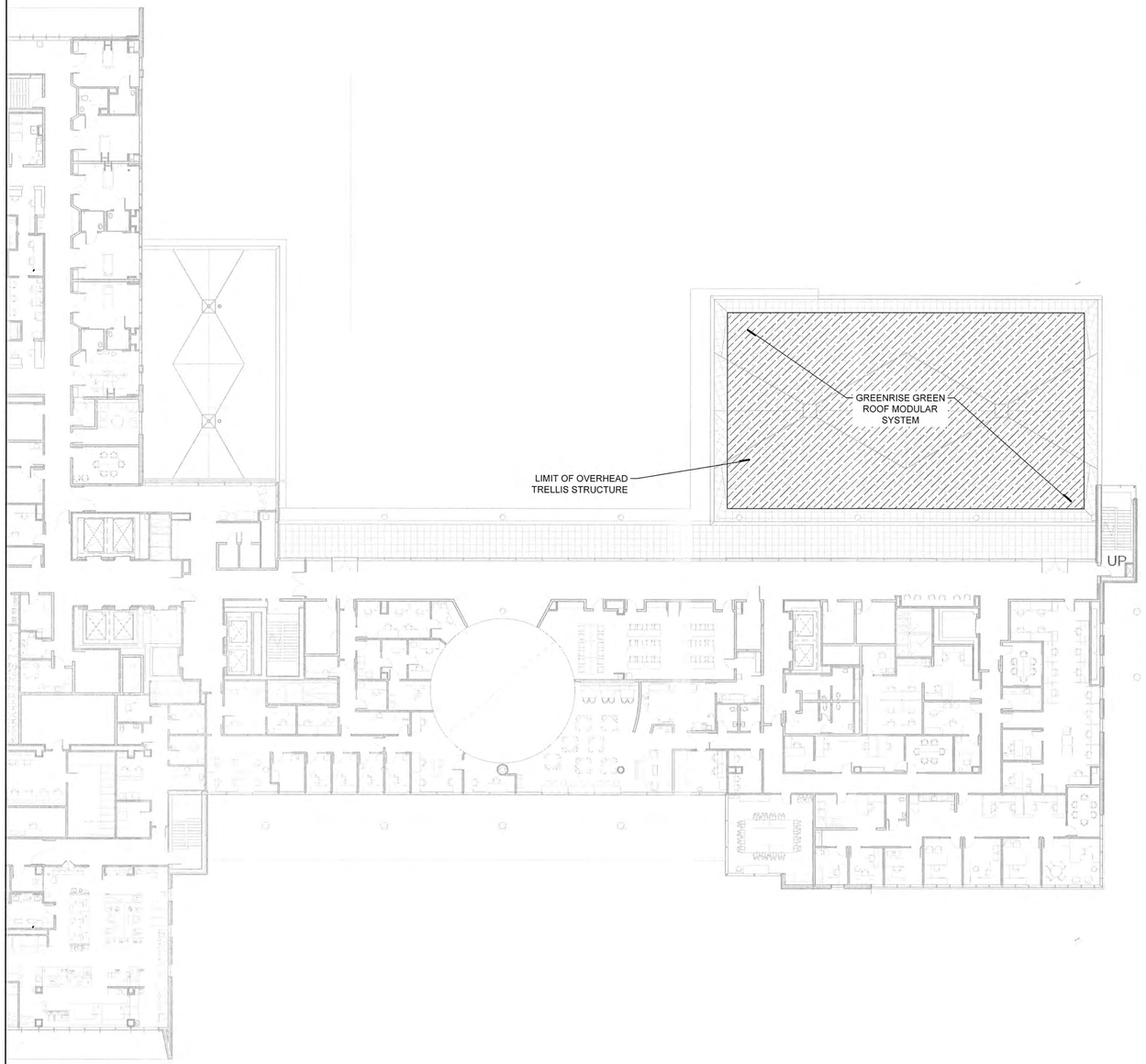
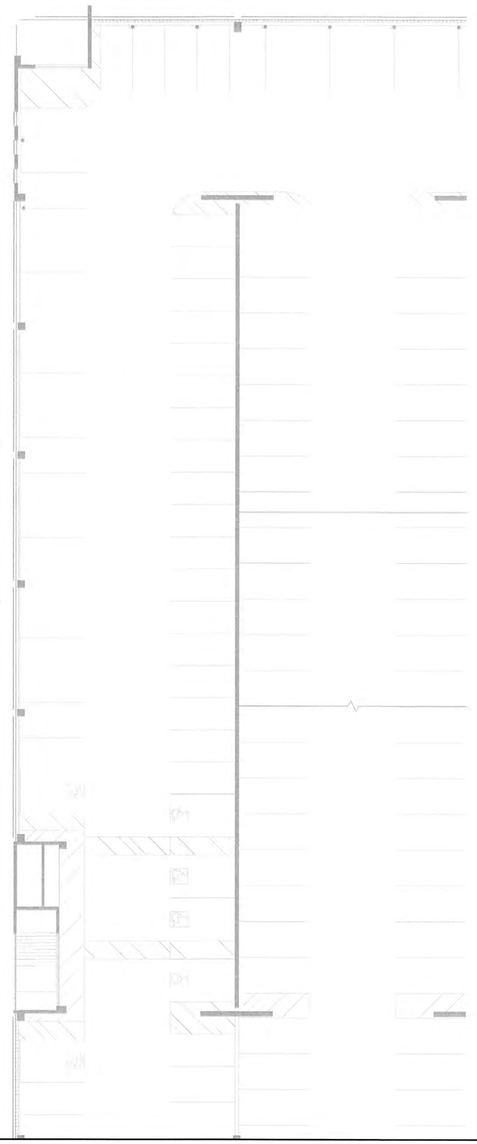
DRAWING NO. LS-9
PROJECT NO. 99-0039-002-01





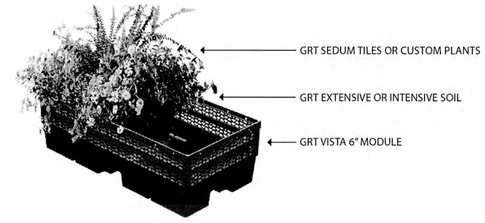
Greenrise Technologies

GRT VISTA 6" MODULAR SYSTEM
SPECIFICATIONS

GRT VISTA 6" MODULAR SYSTEM

The GRT Vista 6" Modular System is a deeper modular system that allows for increased stormwater retention, a more diverse plant selection, and lush aesthetic.

DIMENSIONS	12" x 24" x 6"
SOIL DEPTH	6"
SOIL TYPE	Extensive or Intensive Engineered Soil
SATURATED WEIGHT	35 - 41 psf
WATER RETENTION	1.98 gal/sf (using extensive soil)
WATER DISPERSAL	12 gal/min/lf
IRRIGATION	Built-in irrigation channels



www.greenrisetech.com

info@greenrisetech.com

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LANDSCAPE PLAN- ROOF TOP

SEAL:
REGISTERED LANDSCAPE ARCHITECT
SCOTT WADE PEAVLER
LA 6666976
Scott W. Peavler
Florida R.L.A.No. 6666976
July 19, 2024
STATE OF FLORIDA

DATE: 07/19/2024

DRAWING NO. LS-10

PROJECT NO. 99-0039-002-01

LANDSCAPE DATA:

LOCATION:	Sunrise, FL	
ZONING DISTRICT:	B-3 (General Business District)	
NET SITE AREA:	1,143,984 Sq. Ft.	26.26 Acres

SITE AREA:	AREA:	% OF SITE:
SITE AREA:	**1,143,984 Sq. Ft.**	
TOTAL BLDG. COVERAGE:	**199,045 Sq. Ft.**	**17.4%**
LANDSCAPE AREA:	**135,435 Sq. Ft.**	**11.8%**
WETLAND AREA:	**677,477 Sq. Ft.**	**59.2%**
VEHICULAR USE:	**73,377 Sq. Ft.**	**6.4%**
SIDEWALK, WALLS, CURBING, ETC.:	**58,650 Sq. Ft.**	**5.1%**

SEC. 16-139 PARKING GARAGE LANDSCAPE REQUIREMENTS			**REQUIRED**	**PROVIDED**
(d)(1) Landscape Planters: 4 Levels, 24" OC Plant Spacing				
978 lf per floor x 4 floors=	*3,912 lf/2 =*	*1956 Shrubs*	1,956 Shrubs	1,956 Shrubs
(d)(2) Rooftop parking area: minimum 1 tree per 8 rooftop parkings spaces (trees located on ground level)				
	201 Spaces/ 8=	*26 Trees*	26 Trees	26 Trees
(d)(3) Foundation landscaping for nonpedestrian zones of parking garages: 1 tree per 30 linear feet				
North: 1 tree/ 30 lf of façade	*193 lf/ 30 =*	*7 Trees*	7 Trees	7 Trees
South: 1 tree/ 30 lf of façade	*193 lf/ 30 =*	*7 Trees*	7 Trees	7 Trees

SEC. 16-165 NATIVE AND DIVERSIFICATION REQUIREMENTS			**REQUIRED**	**PROVIDED**
(d)(1) native tree shall constitute a minimum 50% of trees required, no 1 species may constitute more than 30% of the trees and palms required				
Trees required = 152	*152 Trees x 50% =*	*76 Trees*	76 Trees	131 Trees
	152 Trees x 30% =	*46 Trees*	46 Trees	131 Trees

SEC. 16-169 MINIMUM LANDSCAPE REQUIREMENTS			**REQUIRED**	**PROVIDED**
(a)(1) required landscape strip adjacent to the street rights-of-way - berms & walls				
Oakland Park Blvd: bermed landscaped strip at least 20' wide abutting a street right-of-way			Yes	Yes
Sawgrass Expressway: bermed landscaped strip at least 20' wide abutting a trafficway			Yes	Yes
(a)(2) required landscape strip adjacent to the street rights-of-way				
Oakland Park Blvd: 1 tree/25 lf of ROW	*628 lf / 25 =*	*26 Trees (excludes driveway)*	26 Trees	26 Trees
Sawgrass Expressway: 1 tree/25 lf of ROW	*520 lf / 25 =*	*21 Trees (excludes driveway)*	21 Trees	21 Trees
(b)(3) Required perimeter landscaping adjacent to abutting any residential district				
East: 5' wide landscape buffer			5' Min.	5' Min.
1 tree/25 lf	*550 lf / 20 =*	*28 Trees*	28 Trees	29 Trees
10' Masonry Wall			Yes	Yes
(c)(1) Parking area interior landscaping: Quantity				
Min. 25 sf interior landscaping per each req'd parking space	*19 spaces x 25 =*	*475 sf*	475 sf	475 sf
1 tree/each 8 req'd parking spaces	*19 spaces/8 =*	*3 Trees*	3 Trees	3 Trees
(d)(1) Pedestrian zone landscaping: pedestrian zone				
Building façade 60' or higher- maximum 30'				
Hospital Building façade = 126'-0"				
Required Average=	*165 lf * 30 =*		4,950 sf	5,378 sf
Landscaped area (50% of LPZ)=			2,475 sf	3,687 sf
Garage Building façade = 63'-6"				
Required LPZ Average area=	*429 lf * 30 =*		12,870 sf	13,689 sf
Landscaped area (50% of LPZ)=			6,435 sf	11,073 sf
(d)(2) Pedestrian zone landscaping: plant material				
1 large tree / 30 lf				
Hospital -South:	165.0 lf / 30 =	*6 Trees*	6 Trees	6 Trees
Garage- East:	434.0 lf / 30 =	*15 Trees*	15 Trees	15 Trees
Required Mid, Low & Upper Shrubs				
Hosptial -South: Mid (165 lf / 2)			83 Shrubs	83 Shrubs
Low (50% of Mid)			42 Shrubs	42 Shrubs
Upper (10% of Mid)			9 Shrubs	9 Shrubs
Garage- East: Mid (434 lf / 2)			217 Shrubs	217 Shrubs
Low (50% of Mid)			109 Shrubs	109 Shrubs
Upper (10% of Mid)			22 Shrubs	22 Shrubs
(d)(4) Non-pedestrian zone landscaping: plant material				
Required Mid, Low & Upper Shrubs				
Hospital- North: Mid (562 lf / 2)			281 Shrubs	281 Shrubs
Low (50% of Mid)			141 Shrubs	141 Shrubs
Upper (10% of Mid)			29 Shrubs	29 Shrubs
Garage- North: Mid (193 lf / 2)			97 Shrubs	97 Shrubs
Low (50% of Mid)			49 Shrubs	49 Shrubs
Upper (10% of Mid)			10 Shrubs	10 Shrubs
Garage- South: Mid (193 lf / 2)			97 Shrubs	97 Shrubs
Low (50% of Mid)			49 Shrubs	49 Shrubs
Upper (10% of Mid)			10 Shrubs	10 Shrubs
Garage- West: Mid (164 lf / 2)			82 Shrubs	82 Shrubs
Low (50% of Mid)			41 Shrubs	41 Shrubs
Upper (10% of Mid)			9 Shrubs	9 Shrubs
(f) Entry feature landscaping				
1) Landscaping shall extend on both sides the length of the entry drive			Yes	Yes
Landscaping shall extend parallel to the ROW by 1/2 the width of the ROW (200' ROW)			100'	100'
2) 1 tree / 25 lf of req'd landscaping	*(330 lf / 25)*		14 Trees	14 Trees
1 Mid-level shrub / 2 lf of entry feature landscaping	*(330 lf / 2)*		165 Shrubs	165 Shrubs
Low-level - 100% of the length of the mid-level			Yes	Yes
Upper-level - 50% of the length of the mid-level			Yes	Yes
(g) No more than 25% single species for mid-level shrubs per LDC Sec. 16-169(a)			744 Mid-Level Shrubs Max.	617 Shrubs Max.
		TOTAL TREES:	**153 Trees**	**154 Trees**
		TOTAL MID-LEVEL SHRUBS:	**2,977 Shrubs**	**2,978 Shrubs**
		TOTAL UPPER-LEVEL SHRUBS:	**89 Shrubs**	**89 Shrubs**

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	REMARKS
	BB	10	Bauhinia x blakeana	Hong Kong Orchid Tree	3" Cal., 12' Ht. x 6' Sprd.	
	BS	29	Bursera simaruba	Gumbo Limbo	5" Cal., 16' Ht. x 6' Sprd.	
	CR	4	Callistemon viminalis 'Red Cluster'	Red Cluster Weeping Bottlebrush	2" Cal., 12' Ht. x 5' Sprd.	
	CE	4	Cassia surattensis	Glossy Shower Tree	2" DBH, 12' HT. X 5' SPRD.	
	CD	14	Coccoloba diversifolia	Pigeon Plum	3" Cal., 14' Ht. x 6' Sprd.	
	CU	5	Coccoloba uvifera	Sea Grape	3" Cal., 12' Ht. x 6' Sprd.	
	CS	12	Conocarpus erectus f. sericeus	Silver Buttonwood	2" Cal., 12' Ht. x 5' Sprd.	
	DP	2	Delonix poinciana	Royal Poinciana	5" Cal., 16' Ht. x 6' Sprd.	
	IC	11	Ilex cassine	Dahoon Holly	3" Cal., 14' Ht. x 6' Sprd.	
	JM	2	Jacaranda mimosifolia	Jacaranda	5" Cal., 16' Ht. x 6' Sprd.	
	LJ	26	Ligustrum japonicum	Japanese Privet	2" DBH, 12' Ht. x 6' Sprd.	
	LW	2	Lysiloma latisiliquum	False Tamarind	5" Cal., 16' Ht. x 6' Sprd.	
	PE	61	Pinus elliottii 'Densa'	Slash Pine	4" Cal., 20' Ht. x 6' Sprd.	
	QV	22	Quercus virginiana	Live Oak	5" Cal., 16' Ht. x 6' Sprd.	
	QV8	16	Quercus virginiana	Live Oak	8" Cal., 22' Ht. x 14' Sprd.	
	TC	4	Tabebuia caraiba	Silver Trumpet	3" Cal., 12' Ht. x 6' Sprd.	
	TD	44	Taxodium distichum	Bald Cypress	5" Cal., 16' Ht. x 6' Sprd.	
PALMS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATIONS**	**REMARKS**
	REX	49	Roystonea elata	Royal Palm	18' GW. - 30' OA.	
	VMX	9	Veitchia montgomeryana	Montgomery Palm	20' OA HT.	Double
RELOCATED TREES/PALMS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATIONS**	**REMARKS**
	R-BS	19	Bursera simaruba	Gumbo Limbo	RELOCATED TREE	
	R-MC	56	Myrica cerifera	Wax Myrtle	RELOCATED TREE	

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	SPACING	REMARKS
SHRUB AREAS							
	IRH	688	Iris hexagona	Dixie Iris	18" HT x 18" SPRD	20" o.c.	
LOWER LEVEL SHRUB							
	ACD	282	Acrostichum danaeifolium	Leather Fern	18" HT x 18" SPRD	24" o.c.	
	AST	198	Asclepias tuberosa	Butterfly Milkweed	18" HT x 18" SPRD	18" o.c.	
	CAM	847	Carissa macrocarpa	Natal Plum	18" HT x 18" SPRD	20" o.c.	
	CIH	5,184	Chrysobalanus icaco 'Horizontalis'	Horizontal Coco Plum	18" HT x 18" SPRD @ 24" O.C.	24" o.c.	
	FIG	2,485	Ficus microcarpa 'Green Island'	Green Island Ficus	18" HT x 18" SPRD	18" o.c.	
	HED	1,938	Helianthus debilis	Dune Sunflower	18" HT x 18" SPRD	18" o.c.	
	ILX	71	Ilex vomitoria 'Schillings Dwarf'	Schillings Dwarf Yaupon Holly	18" HT x 18" SPRD	18" o.c.	
	IXP	673	Ixora x 'Petite Taiwan Red'	Dwarf Red Taiwan Ixora	18" HT x 18" SPRD	18" o.c.	
	JAV	1,956	Jasminum volubile	Wax Jasmine	18"HT x 18"SPRD	20" o.c.	
	MUC	1,568	Muhlenbergia capillaris	Pink Muhly Grass	24" HT X 24" SPRD.	24" o.c.	
	NEE	2,327	Nephrolepis exaltata	Boston Fern	24" HT X 24" SPRD.	24" o.c.	
	RCC	305	Ruellia caroliniensis	Carolina Wild Petunia	18"HT x 18"SPRD	20" o.c.	
	SPB	1,728	Spartina bakeri	Sand Cordgrass	24" HT X 24" SPRD.	24" o.c.	
	TRF	217	Tripsacum floridanum	Florida Gamagrass	24" HT X 24" SPRD.	30" o.c.	
MID LEVEL SHRUB							
	CHI	634	Chrysobalanus icaco 'Red Tip'	Red Tip Coco Plum	24"HT x 24"SPRD	24" o.c.	
	CS2	627	Clusia guttifera	Small Leaf Clusia	24" HT X 24" SPRD.	24" o.c.	
	CES	624	Conocarpus erectus f. sericeus	Silver Buttonwood	24" HT X 24" SPRD.	24" o.c.	
	HAP	655	Hamelia patens	Firebush	24" HT X 24" SPRD.	24" o.c.	
	MYC	1,045	Myrcianthes fragrans 'Compacta'	Compact Simpson's Stopper	24"HT x 24"SPRD	24" o.c.	
	SCP	55	Scaevola plumieri	Inkberry	24" HT X 24" SPRD.	24" o.c.	
	VIW	616	Viburnum obovatum	Walter's Viburnum	24" HT X 24" SPRD.	24" o.c.	
RAN GARDEN PLANTING							
	CRA	443	Crinum americanum	Swamp Lily	18" HT x 18" SPRD	18" o.c.	
	CYI	23	Cyperus isocladus Bareroot	Dwarf Papyrus	18" HT x 18" SPRD	18" o.c.	Bareroot
	HYL	809	Hymenocallis latifolia	Spider Lily	18" HT x 18" SPRD	20" o.c.	
	JUE	485	Juncus effusus	Soft Rush	18" HT x 18" SPRD	20" o.c.	
	PEV	64	Peltandra virginica Bareroot	Arrow Arum	18" HT x 18" SPRD	18" o.c.	Bareroot
	PCB	135	Pontederia cordata 'Blue' Bareroot	Blue Pickerel Weed	18" HT x 18" SPRD	18" o.c.	Bareroot
UPPER LEVEL SHRUB							
	AZV	422	Alpinia zerumbet 'Variegata'	Variegated Shell Ginger	30" HT x 30" SPRD	30" o.c.	
	CAA	1,448	Callicarpa americana	American Beautyberry	36" HT x 24" SPRD.	24" o.c.	
	CS3	47	Clusia guttifera	Small Leaf Clusia	60" HT. X 30" SPR.	30" o.c.	
	CLR	317	Clusia rosea 'Nana'	Dwarf Pitch Apple	36"HT x 36"SPRD	30" o.c.	
	HRF	221	Hibiscus rosa-sinensis 'Florida Sunset'	Florida Sunset Chinese Hibiscus	36"HT x 36"SPRD	36" o.c.	
	PSN	711	Psychotria nervosa	Wild Coffee	36" HT x 24" SPRD.	24" o.c.	
	SER	794	Serenoa repens	Saw Palmetto	30" HT X 24" SPRD.	30" o.c.	
GROUND COVERS							
	SOD 2	1,004 sf	Paspalum notatum	Bahiagrass	SOD		
	SOD 1	9,404 sf	Stenotaphrum secundatum 'Floratam'	St. Augustine 'Floratam'	SOD		

NOTE: All invasive species to be removed prior to landscape installation.

Landscaped areas, including landscaped islands, within or abutting vehicular use areas shall be excavated to a depth of two and one-half (2½) feet to ensure that adequate planting soil exists. Parking lot base course material, limerock, asphalt and other similar material shall be removed to a depth of two and one-half (2½) feet.

LEAD DESIGN
LANDSCAPE ARCHITECT:

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CHECKED BY: JDH

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

LANDSCAPE DATA & PLANT SCHEDULE

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT W. REAVIER LA 6666976 STATE OF FLORIDA
Scott W. Reavier
Florida R.L.A. No. 6666976
July 18, 2024

DATE: 07/19/2024
DRAWING NO. LD-1
PROJECT NO. 99-0039-002-01

GENERAL NOTES

1. A PRE-CONSTRUCTION MEETING WITH THE CITY OF SUNRISE ARBORIST IS REQUIRED PRIOR TO LANDSCAPING ACTIVITIES INCLUDING REMOVAL OF TREES AND/OR INSTALLATION OF PLANT MATERIAL. CALL 954-797-1072 A MINIMUM OF 5 DAYS PRIOR TO DESIRED START DATE TO SCHEDULE PRE-CONSTRUCTION MEETING.

2. ALL EXISTING TREES PROPOSED TO REMAIN ARE TO BE SEPARATED FROM THE LIMITS OF DISTURBANCE OF THE CONSTRUCTION AREA BY TREE PROTECTION FENCING AND SIGNAGE. THE TREE PROTECTION FENCING SHALL BE LOCATED AT THE EDGE OF THE TREE PROTECTION ZONE AS DEPICTED ON THE PLAN OR AT THE EDGE OF THE DRIPLINE(S) IF A TREE PROTECTION ZONE IS NOT DESIGNATED. NO MATERIAL STORAGE OR CONSTRUCTION ACCESS IS PERMITTED WITHIN THE TREE PROTECTION ZONE.

3. ALL EXISTING TREES SHALL BE PRUNED TO ANSI A-300 STANDARDS TO CORRECT POTENTIAL HAZARDS.

4. A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO REMOVAL OR RELOCATION OF ANY TREE OR PALM. CONTACT THE CITY OF SUNRISE ARBORIST TO OBTAIN PERMIT INFORMATION.

5. LANDSCAPE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770 A MINIMUM OF 2 FULL BUSINESS DAYS PRIOR TO DIGGING. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO UTILITIES FROM PLANT INSTALLATION.

6. TREE RELOCATIONS:
   A. EXISTING TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF 120 DAYS PRIOR TO RELOCATION
   B MINIMUM ROOT BALL SIZES SHALL BE IN ACCORDANCE WITH ANSI STANDARDS AS FOLLOWS:

CALIPER	MINIMUM ROOT BALL DIAMETER
1	16
2	24
3	32
4	42
5	54
6	60
7	70
8	80
>8	12 INCHES PER INCH OF TRUNK DIAMETER

   TRANSPLANTED TREES WITH UNDERSIZED ROOT BALLS MAY BE REJECTED BY THE CITY ARBORIST AND REPLACEMENT TREES MAY BE REQUIRED.
   C. A TEMPORARY IRRIGATION SYSTEM SHALL BE PROVIDED DURING AND FOR THE FIRST 40 DAYS AFTER ROOT PRUNING.

7. ALL PLANTING MUST FOLLOW PLANTING SPECIFICATIONS AND DETAILS SHOWN ON THE PLAN.

8. SUBSTITUTIONS OF PLANT SPECIES OR SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE CITY OF SUNRISE ARBORIST PRIOR TO USE.

9. ALL PLANT MATERIAL PLANTED PER THIS LANDSCAPE PLAN SHALL BE FLORIDA GRADE #1 OR BETTER, AS SPECIFIED IN THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF AGRICULTURE'S GRADES AND STANDARDS FOR NURSERY PLANTS. DAMAGED PLANT MATERIAL SHALL BE REJECTED AND REPLACED PRIOR TO INSTALLATION.

10. ALL SIZES SHOWN FOR PLANT MATERIAL ARE TO BE CONSIDERED MINIMUMS.

11. WHERE QUANTITIES AND/OR SPECIES DIFFER BETWEEN THE PLANTING PLANS AND PLANT LISTS, THE PLANS SHALL TAKE PRECEDENCE.

12. ALL NEW PLANT MATERIAL SHALL BE WARRANTED BY THE LANDSCAPE CONTRACTOR FOR A MINIMUM PERIOD OF ONE YEAR. THE WARRANTEE PERIOD SHALL BEGIN AFTER ACCEPTANCE OF THE PLANTS BY THE CITY ARBORIST.

13. PLANT BEDS TO BE TREATED WITH PRE-EMERGENT HERBICIDE PRIOR TO PLANTING

14. ALL TREE AND PALM STAKING AND SUPPORT SHALL BE REMOVED ONE YEAR AFTER INSTALLATION.

15. ALL LANDSCAPE MATERIAL SHALL BE THOROUGHLY WATERED AT THE TIME OF PLANTING, NO DRY PLANTING PERMITTED.

16. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER PROVISIONS UNTIL SUCH TIME AS THE IRRIGATION SYSTEM IS OPERATIONAL.

17. ALL WIRE GUYS AND/OR FABRIC STRAPS SHALL BE FLAGGED WITH FLORESCENT COLORED TAPE.

18. MULCHING:
   A. ALL LANDSCAPE AREAS NOT COVERED BY SOD SHALL BE COVERED BY A MINIMUM 3-INCH LAYER OF MULCH.
   B. A MULCH RING WITH A MINIMUM RADIUS OF 24 INCHES (48 INCH DIAMETER), IS REQUIRED AROUND ALL NEWLY INSTALLED TREES AND PALMS.
   C. CYPRESS MULCH SHALL NOT BE USED.
   D. NO MULCH SHALL BE PLACED TOUCHING OR WITHIN SIX INCHES OF THE TRUNK OF A TREE OR PALM.

20. ALL NEWLY LANDSCAPED AREAS SHALL BE EXCAVATED DOWN TO A DEPTH OF 24 INCHES BELOW FINAL GRADE AND BACK FILLED WITH CLEAN DEBRIS-FREE SOIL. EXISTING SOIL MAY BE RE-USED FOR BACKFILLING IF DEBRIS IS REMOVED AND ORGANIC CONTENT IS AT LEAST 30% OR SOIL IS AUGMENTED WITH TOPSOIL TO GET TO 30% ORGANIC CONTENT. CONSTRUCTION ACCESS SHALL BE RESTRICTED FROM THE LANDSCAPE AREA AFTER EXCAVATION AND BACKFILL IS COMPLETE. A MINIMUM OF 2" OF SOIL SHALL BE PLACED UNDER SOD AREAS AND A MINIMUM OF 6" PLACED IN PLANTING BEDS.

21. ALL LANDSCAPE AREAS SHALL BE FINISH GRADED SUCH THAT THEY ARE A MINIMUM OF 3.5 INCHES BELOW SURROUNDING PAVED SURFACES SO AS NOT TO IMPEDE THE FLOW OF DRAINAGE INTO LANDSCAPED AREAS AND TO ALLOW FOR A 3-INCH MULCH LAYER.

22. THE LOCATION OF PLANT MATERIAL AS SHOWN ON THESE PLANS IS FINAL. THE FINAL LOCATIONS CAN BE ADJUSTED ON SITE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS. THESE CHANGES MUST COMPLY WITH ALL SAFETY SETBACK CRITERIA AND BE DIRECTED OR APPROVED BY THE LANDSCAPE ARCHITECT AND THE CITY OF SUNRISE CODES.

23. REPORT ANY AND ALL DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT IMMEDIATELY.

24. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

25. BEFORE CONSTRUCTION BEGINS THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION. IF SUCH DAMAGE OCCURS THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY REPAIRS AND THEY SHOULD BE MADE IMMEDIATELY AT THE CONTRACTORS EXPENSE WITH SUPERVISION OF THE LANDSCAPE ARCHITECT.

26. ALL WORK MUST COMPLY WITH THE FLORIDA STATE STATUTE 553.81- "PROTECTION OF UNDERGROUND PIPELINES."

27. THE CONTRACTOR MUST COMPLY WITH ALL STATE AND LOCAL WATER QUALITY STANDARDS.

28. THE LOCATION OF ALL THE UTILITIES SHOWN ON THE PLAN IS APPROXIMATE. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR ON SITE. ALL PLANTING MAY BE ADJUSTED TO AVOID CONFLICTS WITH UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ANY ADJUSTMENTS GREATER THAN 10 FEET SHALL BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.

29. CAUTION SHOULD BE EXERCISED WHEN WORKING NEAR EXISTING PLANTING AND ANY FURNISHING THAT IS TO REMAIN ON SITE TO PREVENT ANY DAMAGE. ANY SIGNS, STRUCTURES, OR PLANTING SHALL BE REPLACED AT THE CONTRACTORS EXPENSE IF DAMAGED BEYOND USE. DAMAGED BEYOND USE WILL BE DETERMINED BY THE LANDSCAPE ARCHITECT.

30. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE DISTRICT LOCATION SURVEYOR IMMEDIATELY.

31. MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, F.H.W.A.). ATTENTION IS DIRECTED TO STANDARD INDEX NUMBER 623 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS.

32. THE CONTRACTOR SHALL INSURE THAT INSTALLATION OF ALL PLANTING IN MEDIANS AND RIGHT OF WAYS CONFORMS TO CRITERIA SET FORTH IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS AND IN F.D.O.T. MAINTENANCE RATING PROGRAM.

33. ANY MAINTENANCE THAT INVOLVES TRAFFIC ACTIVITY SHALL BE COORDINATED WITH THE CONTRACTOR AND ONGOING CONSTRUCTION ACTIVITIES.

34. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL WORK AREAS AT THE END OF EACH WORKING DAY. ANY DEBRIS SHALL BE COLLECTED AND DEPOSITED APPROPRIATELY OFF SITE DAILY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY THE LANDSCAPE ARCHITECT.

35. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS THAT ARE REQUIRED BY THE CITY FOR TREE REMOVAL, RELOCATION, TREE PROTECTION OR INSTALLATION BEFORE BEGINNING WORK.

36. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED BY INSTALLING PROTECTIVE BARRIERS AROUND THE DRIP LINE OF TREES. THESE PROTECTIVE BARRIERS SHALL BE SEEN EASILY BY OPERATORS OF TRUCKS AND OTHER EQUIPMENT. THEY SHALL BE CONSTRUCTED OF STURDY MATERIALS (NOT FLAGGING OR RIBBON) AND SHALL BE INSTALLED PRIOR TO AND DURING CONSTRUCTION.

37. DO NOT STORE OR USE ANY MATERIALS OR EQUIPMENT WITHIN THE DRIP LINE OF ANY TREE THAT IS TO BE RELOCATED OR PROTECTED IN PLACE UNLESS THE ACTIVITY IS BEING DONE TO PROTECT THE TREES.

38. DO NOT DISCHARGE OR CONTAMINATE THE SOIL WITHIN THE DRIP LINE OF ANY OF THE TREES TO BE RELOCATED OR PROTECTED IN PLACE. THIS INCLUDES SUBSTANCES SUCH AS PAINT, OIL, SOLVENTS, PETROLEUM PRODUCTS, ASPHALT, CONCRETE, MORTAR, OR ANY OTHER MATERIAL THAT MAY CAUSE DAMAGE TO THE TREE'S ROOT SYSTEM.

39. CLEARING OF VEGETATION WITHIN THE DRIP LINE OF THE TREES DESIGNATED TO BE PROTECTED IN PLACE OR RELOCATED SHALL BE PERFORMED CAUTIOUSLY WITH HAND TOOLS TO MINIMIZE ANY DAMAGE TO THE TREE'S ROOT SYSTEM.

40. DO NOT ATTACH ANYTHING TO TREES THAT ARE TO REMAIN ON THE SITE UNLESS IT IS SOMETHING THAT WILL PROTECT AND NOT DAMAGE THE TREE.

41. KEEP A NATURAL GRADE ABOVE THE DRIP LINE ON ANY TREE THAT IS TO BE PROTECTED IN PLACE. ANY PRESERVED TREES DISTURBED DURING CONSTRUCTION MUST BE RETURNED TO ITS ORIGINAL GRADE AFTER CONSTRUCTION.

42. ALL LANDSCAPE AND LIGHTING WILL BE IN ACCORDANCE WITH ORDINANCE #2011-029 FOR PROTECTION OF SEA TURTL.ES.

43. ALL LANDSCAPE AND PLANTING SHALL COMPLY WITH BROWARD COUNTY LAND USE POLICY 9.03.03 AND WITH CHAPTER 62B-55 OF THE FLORIDA ADMINISTRATIVE CODE.

LANDSCAPE NOTES

1. ALL PLANT MATERIAL FURNISHED BY THE LANDSCAPE CONTRACTOR UNLESS OTHERWISE SPECIFIED SHALL BE FLORIDA NO. 1 GRADE OR BETTER, AND SHALL BE INSTALLED AS SPECIFIED IN "GRADES AND STANDARDS FOR NURSERY PLANTS," PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANT MATERIAL MUST BE HEALTHY, VIGOROUS MATERIALS, FREE OF PESTS AND DISEASES.

2. ALL SIZES SHOWN FOR PLANT MATERIAL ON THE PLAN ARE TO BE CONSIDERED AS MINIMUMS. ALL PLANT MATERIAL MUST MEET OR EXCEED THESE MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD. ANY OTHER REQUIREMENTS FOR SPECIFIC SHAPE OR EFFECT AS NOTED ON THE PLAN OR SPECIFICATIONS WILL ALSO BE REQUIRED FOR ACCEPTANCE. ANY SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING.

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTING MEETING SPECIFICATIONS AS NOTED BEFORE INSTALLATION. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL PLANTING THAT DOES NOT MEET SPECIFICATIONS AND BE HELD RESPONSIBLE TO REPLACE IT WITH APPROPRIATE PLANTING.

4. IN THE EVENT OF A VARIATION BETWEEN THE PLANT LISTS AND THE ACTUAL QUANTITY OF PLANTS SHOWN, THE PLANS HOLD TRUE.

5. ALL ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH

6. CONTRACTOR TO SUBMIT TO THE LANDSCAPE ARCHITECT THE GROWERS AND/OR SITE INSPECTION CERTIFICATE FOR PLANT MATERIALS TWO (2) WEEKS PRIOR TO COMMENCEMENT OF WORK.

7. ALL PLANT MATERIALS MUST BE PROTECTED DURING TRANSPORT AND DELIVERY TO THE JOB SITE WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION.

8. CONTRACTORS SHALL FIELD VERIFY ALL INFORMATION PRIOR TO INITIATING PLANTING INSTALLATION. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.

9. LANDSCAPE CONTRACTOR SHALL FIELD STAKE THE LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION FOR THE REVIEW AND APPROVAL OF THE LANDSCAPE ARCHITECT.

10. ALL TREES MUST BE FLORIDA #1, STRAIGHT TRUNKED, FULL HEADED, AND MEET ALL REQUIREMENTS SPECIFIED.

11. CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR A FULL YEAR ESTABLISHMENT PERIOD FOLLOWING DATE OF SUBSTANTIAL COMPLETION.

12. CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE WEEK OF NOTICE.

13. CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE CITY AND LANDSCAPE ARCHITECT SHALL DECLARE SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE GUARANTEE PERIOD.

14. INSTALLATION- ALL PLANT MATERIAL SHALL BE INSTALLED IN A SOUND WORKMANLIKE MANNER AND ACCORDING TO GOOD PLANTING PROCEDURES WITH THE QUALITY OF PLANT MATERIALS AS HEREINAFTER DESCRIBED. ALL ELEMENTS OF LANDSCAPING SHALL BE INSTALLED SO AS TO MEET ALL APPLICABLE ORDINANCES AND CODE REQUIREMENTS.

15. CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING ALL TREES AND LANDSCAPE UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE AND PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF PLANTS IF DEAD OR DYING PRIOR TO FINAL ACCEPTANCE.

16. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN AS MASS PLANTING PLANTS SHOULD BE PLACED ON A TRIANGULAR SPACING SHOWN IN THE PLANTING DETAILS. PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE LISTED ON THE PLANT LIST.

12. TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY BEFORE PLANTING.

13. ALL PLANT ROOT BALLS SHALL BE 10% ABOVE GRADE AND THE WIRE BASKETS, BURLAP, STRING AND ROPE MUST BE REMOVED PRIOR TO INSTALLATION.

14. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES, AND ANY OTHER MATERIALS FROM THE LANDSCAPE ARCHITECT FOR COMPLETE LANDSCAPE PLANTING INSTRUCTIONS.

15. "BRANCH TOUCHING BRANCH" PROVIDED AT TIME OF INSTALLATION. ALL HEDGES - BOTH COCOPLUM AND SILVER BUTTONWOOD TO BE MIN. 24" AT PLANTING AND 36" HIGH WITHIN ONE YEAR.

16. THE FOLLOWING GUIDELINES SHALL BE FOLLOWED TO ENSURE SUCCESSFUL TRANSPLANTING OF TREES:
   a. ANY TREE BEING RELOCATED SHALL NOT BE UNNECESSARILY DAMAGED DURING REMOVAL, TRANSPORT, OR REPLANTING OF THAT TREE.
   b. TREES MUST BE ROOT PRUNED APPROPRIATELY PRIOR TO REMOVAL .
   c. DURING AND FOLLOWING TRANSPLANTING THE ROOT BALL MUST BE KEPT MOIST AT ALL TIMES.
   d. TRANSPLANTED TREES SHALL BE BRACED AT LEAST ONE FULL YEAR.
   e. TRANSPLANTED TREES SHALL NOT BE FERTILIZED AT PLANTING TIME BUT SHALL BE WATERED SUFFICIENTLY UNTIL THE TREE GROWTH IS REESTABLISHED.
   f. RELOCATED TREES/PALMS WILL BE MOVED IN ACCORDANCE WITH MINIMUM STANDARDS SET FORTH IN ANSI A-300
   g. ALL CROWN PRUNING SHALL BE DONE IN ACCORDANCE WITH NATIONAL ARBORIST ASSOCIATION STANDARDS OR PALM PRUNING IN ACCORDANCE WITH CITY STANDARDS.

17. LANDSCAPE CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK. LANDSCAPE CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION OR INSTALLATION.

18. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ALL PORTIONS OF EXISTING LAWN AREAS DAMAGED WHILE COMPLETING PLANTING INSTALLATION WITH SAME GRASS SPECIES TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.

19. GENERAL GRADING TO APPROXIMATELY 1 INCH SHALL BE PROVIDED BY THE CONTRACTOR. ALL FINISHED SITE GRADING AND FINAL DECORATIVE BERM SHAPING SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR.

20. ALL LANDSCAPE MATERIALS SHALL BE MAINTAINED TO PROVIDE CONTINUOUS CLEAR ZONES FOR SIGHT VISIBILITY FOR PEDESTRIANS AND VEHICULAR TRAFFIC AND LANDSCAPE MAINTENANCE SHALL CONFORM TO STANDARD INDEX 546 CRITERIA SET FORTH IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

SOIL PREPARATION, SOIL MIX, FERTILIZER, & MULCH NOTES:

1. ENSURE THAT ALL PLANTING SOIL IS FERTILE, FRIABLE, NATURAL LOAM SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, WEEDS AND OTHER LITTER, AND FREE OF ROOTS,STUMPS AND STONES LARGER THAN ONE INCH IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. SHOULD ANY SOIL AMENDMENT BE NECESSARY, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

2. APPLY APPROVED HERBICIDE- ACCORDING TO MANUFACTURERS RATE AND SPECS WITHIN LIMITS OF ALL AREAS TO BE PLANTED. PROTECT EXISTING PLANTS TO REMAIN FROM OVERSPRAY OR SPRAY WITHIN ROOT ZONE. CONTRACTOR TO ENSURE TOTAL WEED ERADICATION.

3. SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES.

4. PLANTING MIX FOR TREES, SHRUBS, AND GROUNDCOVERS SHALL CONSIST OF A THOROUGHLY BLENDED MIXTURE OF:
   A. 50% MUCK
   B. 50% SAND

5. PLANTING MIX FOR BACKFILL AROUND ROOT BALLS OF PALMS:
   A. 90% NATIVE SAND FROM ON SITE OR APPROVED SUBSTITUTE
   B. 10% TOPSOIL

6. ALL PLANT MATERIAL SHALL RECEIVE A MINIMUM NPK FERTILIZER WITH MINOR TRACE ELEMENTS AND THAT 50% OF THE NITROGEN MUST BE DERIVED FROM AN ORGANIC SOURCE.

7. ALL LANDSCAPE ISLANDS AND MEDIANS SHALL BE EXCAVATED TO A DEPTH OF 30" AND BACK FILLED WITH SPECIFIC PLANTING MIX, ALSO LANDSCAPE AREAS OR PLANTERS ALONG THE BUILDINGS REQUIRE EXCAVATIOON TO A DEPTH OF 12" AND BACKFILLED WITH SPECIFIC PLANTING SOIL MIX . A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED IN PLANTING BEDS.

8. SMOOTH ALL PREPARED TOPSOIL TO 3" EXCEPT WITHIN DRIP LINES OF EXISTING TREES AND 4" BELOW TOP OF SURROUNDING PAVING EDGES. REMOVE ALL ROCKS AND OTHER OBJECTS OVER 1" IN DIAMETER.

9. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER.

10. TOPSOIL SHALL NOT BE EXTREMELY ACIDIC OR ALKALINE, NOR CONTAIN ANY TOXIC SUBSTANCE WHICH MAY BE HARMFUL TO PLANT GROWTH. THE PH SHALL BE IN THE RANGE OF 6.5-7.0.

11. CONTRACTOR SHALL MULCH ALL PLANTING MATERIAL THROUGHOUT AND COMPLETELY TO A 3 INCH DEPTH WITH CLEAN, WEED FREE, ARSENIC FREE ORGANIC MULCH.

12. MINIMUM OF 2" TOPSOIL MUST BE ADDED UNDER ALL SODDED AREAS.

13. LANDSCAPE INSPECTOR SHALL BE CALLED TO APPROVE SOIL MIXTURE PRIOR TO INSTALLATION.

IRRIGATION NOTES:

1. XERISCAPE PRINCIPLES HAVE BEEN APPLIED TO THIS LANDSCAPE PLAN AS SPECIFIED IN SFWMD's XERISCAPE PLANT GUIDE II AND SHALL BE APPLIED ALL THROUGHOUT LANDSCAPE INSTALLATION AND MAINTENANCE.

2. THE CONTRACTOR SHALL MAINTAIN TEMPORARY IRRIGATION OR PROVIDE HAND WATERING FOR ALL RELOCATED TREES AND PALMS FROM NOTICE TO PROCEED UNTIL PERMANENT IRRIGATION SYSTEM IS OPERABLE.

3. THE IRRIGATION SYSTEM SHALL BE CONFIGURED TO ACCOMMODATE EXISTING TREES AND PALMS.

4. ALL LANDSCAPED AREAS MUST BE IRRIGATED IN ACCORDANCE WITH ALL LOCAL/ COUNTY REQUIREMENTS.

5. REMOVE EXISTING IRRIGATION EQUIPMENT WHICH INTERFERES WITH ANY CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROLLERS, SPRINKLER HEADS, PIPE, QUICK COUPLERS, BACKFLOW PREVENTERS, CONTROL WIRE AND CONDUITS. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING SYSTEM THROUGHOUT THE CONSTRUCTION PROCESS.

6. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. INSPECT IRRIGATION SYSTEM AND INSURE THAT ADEQUATE WATER IS AVAILABLE BEFORE BEGINNING PLANTING OPERATIONS. IRRIGATION SYSTEMS WILL NOT PROVIDE SUFFICIENT QUANTITIES OF WATER FOR NEWLY PLANTED MATERIALS. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DEEP ROOT HAND WATERING.

7. SEE IRRIGATION PLANS FOR ADDITIONAL NOTES AND DETAILS.

LEAD DESIGN
LANDSCAPE ARCHITECT:
swa/Balsley
31 West 27th Street
New York, NY
10001-6914
United States
www.swabalsley.com
+1.212.684.9230 o

LEAVE BLANK - FOR CITY USE ONLY

No.	REVISIONS	DATE	BY

SCALE: NTS
DESIGNED BY: SWP
DRAWN BY: SWP
CHECKED BY: JDH

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS · PLANNERS · SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
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BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

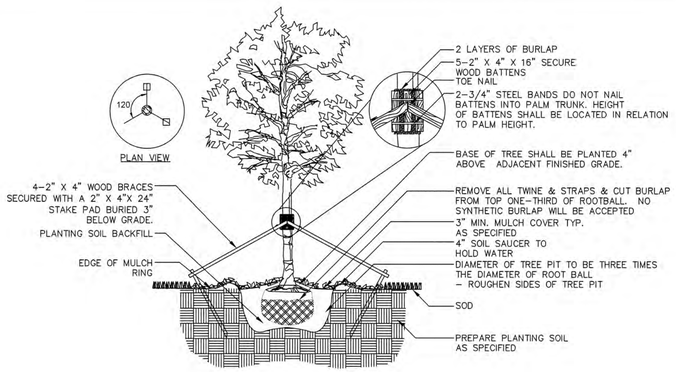
LANDSCAPE NOTES

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE REAVIER LA 6666976 STATE OF FLORIDA
Scott W Reavier
Florida R.L.A. No. 6666976
July 18 2024

PROJECT: 99-0039-002-01

DATE: 07/19/2024

DRAWING NO. LD-2



1 CANOPY TREE
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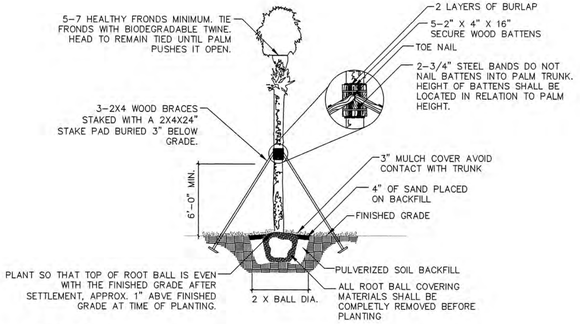

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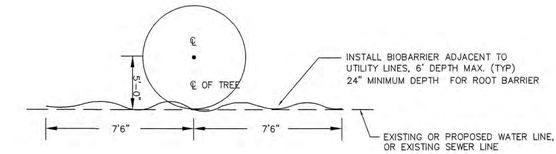

8 ROOT BARRIER
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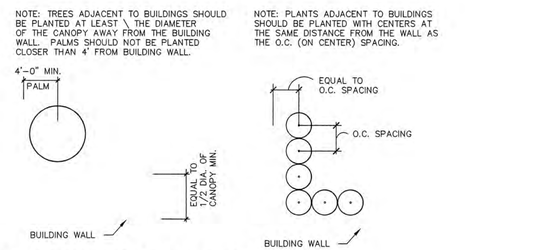

5 PLANTING ADJACENT TO BUILDING
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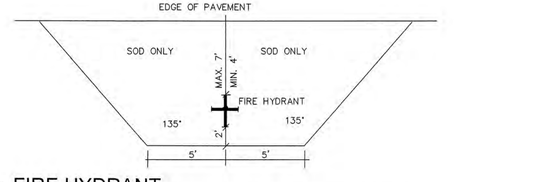

9 FIRE HYDRANT
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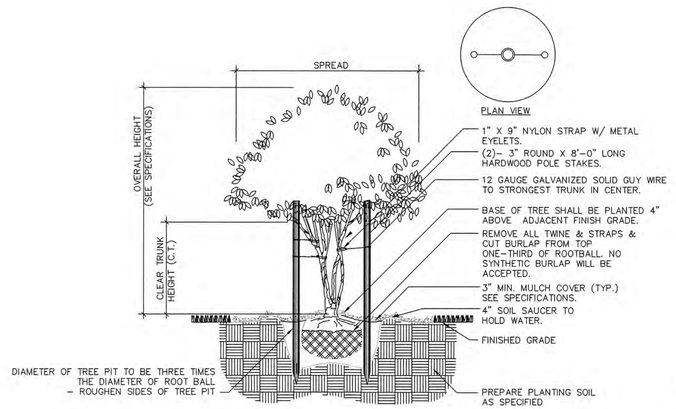
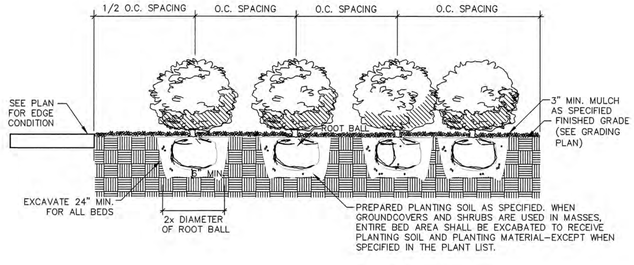
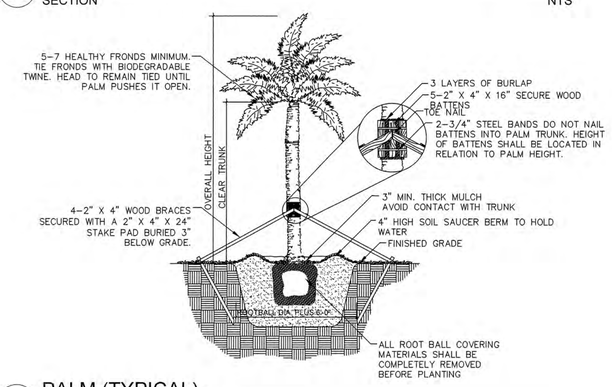


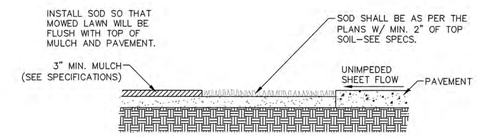
2 MULTI-TRUNK TREE
SECTION NTS



6 SHRUB PLANTING
SECTION NTS



3 PALM (TYPICAL)
SECTION NTS



7 SOD INSTALLATION
SECTION NTS

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

LANDSCAPE DETAILS

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666976 Scott W. Peavler Florida R.L.A. No. 6666976 July 16, 2024 STATE OF FLORIDA

DATE: 07/19/2024

DRAWING NO. LD-3

PROJECT NO. 99-0039-002-01

IRRIGATION HEAD LEGEND

SYMBOL QUANTITY	SYMBOL	DESCRIPTION	DETAIL	DESIGN PSI	DESIGN GPM PER SYMBOL
309	◘	EACH SYMBOL DENOTES TWO (2) RAIN BIRD 1804-SAM-1401 FLOOD BUBBLERS	Q	30	0.50
1	T	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MPCORNER NOZZLE ADJ ARC 0-90	R	30	VAR
11	M	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP1000 NOZZLE MAROON ADJ ARC 90-210	R	30	VAR
0	L	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP1000 NOZZLE LIGHT BLUE ADJ ARC 210-270	R	30	VAR
0	O	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP1000 NOZZLE OLIVE ADJ ARC 360	R	30	0.65
9	K	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP2000 NOZZLE BLACK ADJ ARC 90-210	R	30	VAR
1	G	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP2000 NOZZLE GREEN ADJ ARC 210-270	R	30	VAR
0	R	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP2000 NOZZLE RED ARC 360	R	30	1.27
20	B	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP3000 NOZZLE BLUE ADJ ARC 90-210	R	30	VAR
309	Y	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP3000 NOZZLE YELLOW ADJ ARC 210-270	R	30	VAR
309	A	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP3000 NOZZLE GRAY ARC 360	R	30	3.15
309	LB	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MP3500 NOZZLE LT. BROWN ADJ ARC 90-210	R	30	VAR
309	▲	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MPCORNER NOZZLE RST	R	30	VAR
309	▲	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MPCORNER NOZZLE LST	R	30	VAR
309	△	RAIN BIRD 1806-SAM-PRS-30 W/ HUNTER MPCORNER NOZZLE SST	R	30	VAR

NON-VEHICULAR SLEEVING SCHEDULE	
PIPE SIZE	SLEEVING PIPE SIZE
3/4"	2"
1"	2"
1-1/4"	3"
1-1/2"	3"
2"	4"
3"	6"
4"	8"
6"	12"
8"	16"

SLEEVING NOTES:

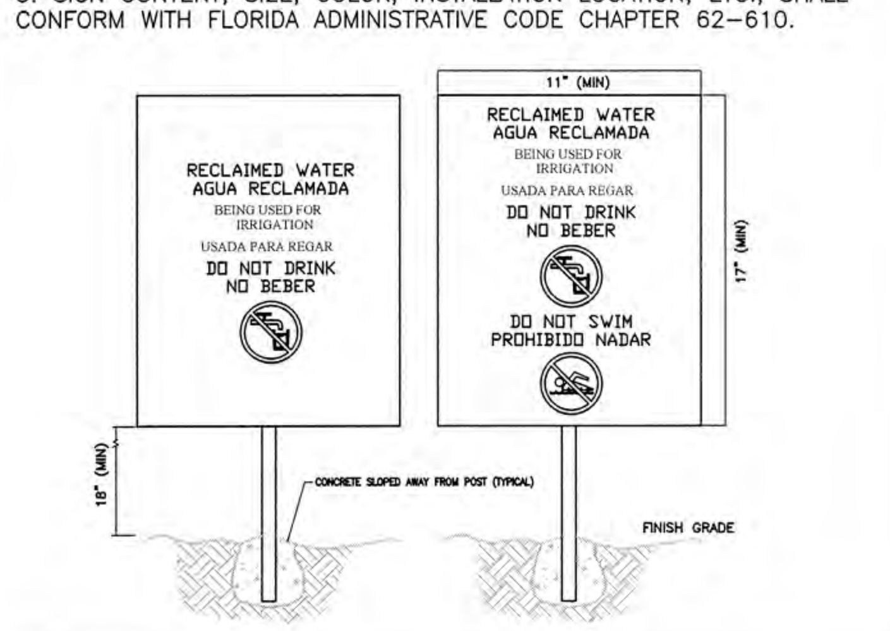
1. VEHICULAR CROSSINGS ARE SHOWN AND SIZED ON THE PLANS.
2. NON-VEHICULAR SLEEVES ARE SHOWN BUT NOT SIZED.
3. SIZE ALL NON-VEHICULAR SLEEVES ACCORDING TO THE ABOVE CHART.
4. MAINLINE CROSSINGS MUST ALSO INCLUDE A 2" CONDUIT SLEEVE FOR CONTROL WIRE.
5. CONTRACTOR TO DUCT TAPE END OF SLEEVES TO KEEP SLEEVE CLEAN AND CLEAR.
6. CONTRACTOR TO STAKE END OF EACH SLEEVE ABOVE GROUND AND PAINT FLUORESCENT ORANGE. LABEL EACH STAKE WITH THE WORD 'SLEEVE' AND ITS SIZE.
7. CONTRACTOR TO PROVIDE A 3 FT MINIMUM DEPTH OF COVERAGE OVER ALL SLEEVES.

SLEEVE LABEL:
12"/6"/2" SLEEVES MEANS TO INSTALL ONE 12", ONE 6" AND ONE 2" SLEEVE.

1. MOUNT SIGN TO STANDARD U-CHANNEL SIGN POST WITH STAINLESS STEEL HARDWARE WITH CONCRETE SLOPED AWAY FROM SIGN POST.

2. SIGN SHALL BE .080 GAUGE ALUMINUM, VINYL COATED.

3. SIGN CONTENT, SIZE, COLOR, INSTALLATION LOCATION, ETC., SHALL CONFORM WITH FLORIDA ADMINISTRATIVE CODE CHAPTER 62-610.



FLORIDA RECLAIM/REUSE WATER NOTE:

IN ANTICIPATION OF A FUTURE CHANGE OF POINT OF CONNECTION FROM AN IRRIGATION WELL TO A RECLAIM/REUSE WATER METER, ALL IRRIGATION MATERIAL/COMPONENTS PROPOSED IN THESE PLANS SHALL BE COLOR CODED 'PANTONE PURPLE' AS REQUIRED BY FLORIDA ADMINISTRATIVE CODE 62-610;

WHEN THE POINT OF CONNECTION IS CHANGED TO RECLAIM/REUSE WATER, PROPER WARNING SIGNS SHALL BE POSTED AROUND THE SITE AND AT ALL ENTRANCE POINTS TO THE AREA ADVISING REUSE WATER IS BEING UTILIZED FOR IRRIGATION. CONTRACTOR RESPONSIBLE FOR ENSURING THE PROPER SIGNAGE, COLOR, SIZE, VERBIAGE, AND LOCATIONS ARE UTILIZED, AS REQUIRED.

IRRIGATION LEGEND

QTY	SYM	DESCRIPTION	DET.
1 / 2" / 64.0		STATION NUMBER; GALLONS PER MINUTE-CATALOG FLOW; VALVE SIZE	
1	P	PROPOSED WATERTRONICS XX H.P. SUBMERSIBLE, V.F.D., PRESSURE DEMAND PUMP STATION MODEL #T.B.D., WITH EBV MASTER VALVE, FLOW SENSOR, AND CHEMICAL INJECTION SYSTEM. PUMP POWER IS REQUESTED TO BE 480V/3Ø. WATER SOURCE IS A NEW WELL (SIZE T.B.D.)	
-	BF	1-1/2" BACKFLOW-PROTECTED STUBOUT FROM BUILDING WATER SUPPLY (BY OTHERS, REFER TO MEP PLANS)	
1	C1	HUNTER ACC2 DECODER 75-STATION CONTROLLER MODEL #AC2-75D-PP, WITH PLASTIC PEDESTAL MOUNT WITH GROUNDING GRID (INCLUDING BOTH GROUNDING ROD AND GROUNDING PLATE) WITH A HUNTER WIRELESS HAND-HELD PROGRAMMER MODEL #ICD-HP	C1 C2 C3 C4
1	C2	RAIN BIRD ESP-LXME WALL MOUNT 12 STATION CONTROLLER, GROUNDING GRID AND BASELINE WATERTEC S100 SOIL MOISTURE SENSOR INTERFACE MOUNTED ADJACENT TO CONTROLLER	
TBD	◕	RAIN BIRD PESB SERIES REMOTE CONTROL VALVE (SIZE PER PLAN) WITH A HUNTER ICD-100 SINGLE-STATION DECODER ON DECSTAKE-10 DECODER STAKE KIT, AND NIBCO T-113 GATE VALVE IN A CARSON 1220 JUMBO VALVE BOX WITH PURPLE BOLT DOWN LID	B1 B2
TBD	⊕	RAIN BIRD PESB SERIES REMOTE CONTROL VALVE (SIZE PER PLAN) WITH A HUNTER ICD-100 SINGLE-STATION DECODER ON DECSTAKE-10 DECODER STAKE KIT, WITH A #PRL303F3F OR #PR30-HF PRESSURE REGULATOR (BASED ON FLOW**), NIBCO T-113 GATE VALVE AND NETAFIM MANUAL DISC FILTER MODEL DF100/150/200 (PER MFG DIRECTION)-140, EACH IN A SEPARATE CARSON 1220 JUMBO VALVE BOX WITH PURPLE BOLT DOWN LID	B1 B2 B3 B4
1	R	POLE MOUNTED HUNTER ET/RAIN/FREEZE SENSOR MODEL #SOLAR SYNC, ROUTE SENSOR WIRES TO CONTROLLER IN 1" ELECTRICAL CONDUIT (WITH HUNTER ICD-SEN DECODER IF SENSOR CONNECTED TO TWO WIRE PATH AND NOT WIRED DIRECTLY TO ACC2 CONTROLLER)	C2
1	R	EAVE MOUNTED HUNTER RAIN FREEZE CLIK SENSOR MODEL RFC, WIRE TO BE CONNECTED TO CONTROLLER VIA 1" CONDUIT	
5	MS	IRROMETER WATERMARK SOIL MOISTURE SENSOR MODEL #200SS WITH WS-AC WATERSWITCH AND HUNTER ICD-SEN DECODER	C4
1	WSEN	HUNTER WIND SENSOR MODEL #WIND-CLIK WITH ICD-SEN DECODER	C3
10	▶●◀	AQUAFUSE CONTROLFLO DUCTILE IRON HDPE WELD-ON GATE VALVE WITH POLYETHYLENE ENDS (LINE SIZE)	D
	———	PROPOSED CLASS 200 PURPLE PVC LATERAL LINE W/ SCH 40 SOLVENT WELD PVC FITTINGS (SIZE PER PLAN, MINIMUM PIPE SIZE SHALL BE 3/4", NO 1/2" PIPES PERMITTED)	L
	— —	DR11-4710 IPS PURPLE H.D.P.E. MAINLINE (SIZE T.B.D.) WITH FUSION WELD FITTINGS, AND A PARALLEL RUN OF 1-1/2 IN. GRAY SCH 40 ELECTRICAL CONDUIT WITH SOLVENT WELD FITTINGS FOR CONTROL WIRE (WITH JUNCTION/PULL BOXES FOR TWO-WIRE PATH PER PLAN DETAILS AND MANUFACTURER GUIDELINES) (NOTE: H.D.P.E. MAINLINE TO REMAIN UNSLEEVED UNDER HARDSCAPES AND/OR ROADWAY CROSSINGS, TYP. FOR THE TWO-WIRE PATH IN CONDUIT, AT EVERY ROADWAY CROSSING INSTALL A JUNCTION/PULL BOX ON EITHER SIDE, TYP)	L
	— — — —	SCH 40 GRAY PVC ELECTRICAL CONDUIT, WITH SCH 40 PVC FITTINGS (SIZE PER PLAN)	L
	(hatched box)	NETAFIM TLHCVXR-RW7-12XX PRESSURE COMPENSATING LANDSCAPE DRIPLINE (~128,865 L.F.), CHECK VALVE, ANTI-SIPHON FEATURE AND 0.77 GPH EMITTERS AT 12" O.C. SPACING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR GRID EMITTER PATTERN. DRIP ZONES INSTALLED WITH AUTOMATIC FLUSH VALVES AND DRIP OPERATION INDICATORS. REFER TO PLAN DETAILS	M,N
	———	CLASS 200 PVC HEADER W/SCH 40 SOLVENT-WELD PVC FITTINGS (SIZE PER PLAN)	M,N
134	F	NETAFIM TLFV-1 FLUSH VALVE IN CARSON 910 Ø10" ROUND ENCLOSURE WITH FLUSH SOLID BOLT DOWN LID (OR EQUIVALENT)	
	= = = =	CLASS 200 PVC SLEEVES W/SCH 40 SOLVENT-WELD PVC FITTINGS (SIZE PER PLAN) NOTE: EACH MAINLINE HARDSCAPE/ROAD CROSSING SHALL BE ACCOMPANIED BY A 2" SLEEVE FOR CONTROL WIRES	O

QUANTITIES GIVEN ARE FOR CONTRACTOR CONVENIENCE ONLY. THE ACCURACY IS NOT GUARANTEED. ALL QUANTITIES SHALL BE VERIFIED.

*DET (ON THE LEGEND) - THE LETTER IN THIS COLUMN DENOTES THE CORRESPONDING DETAIL SHOWN ON THE DETAIL SHEET.

** PRESSURE REGULATORS:
PRL30: 0.5-8.0 GPM
PR30HF: 10.0-32.0 GPM
PRU: 20-100 GPM

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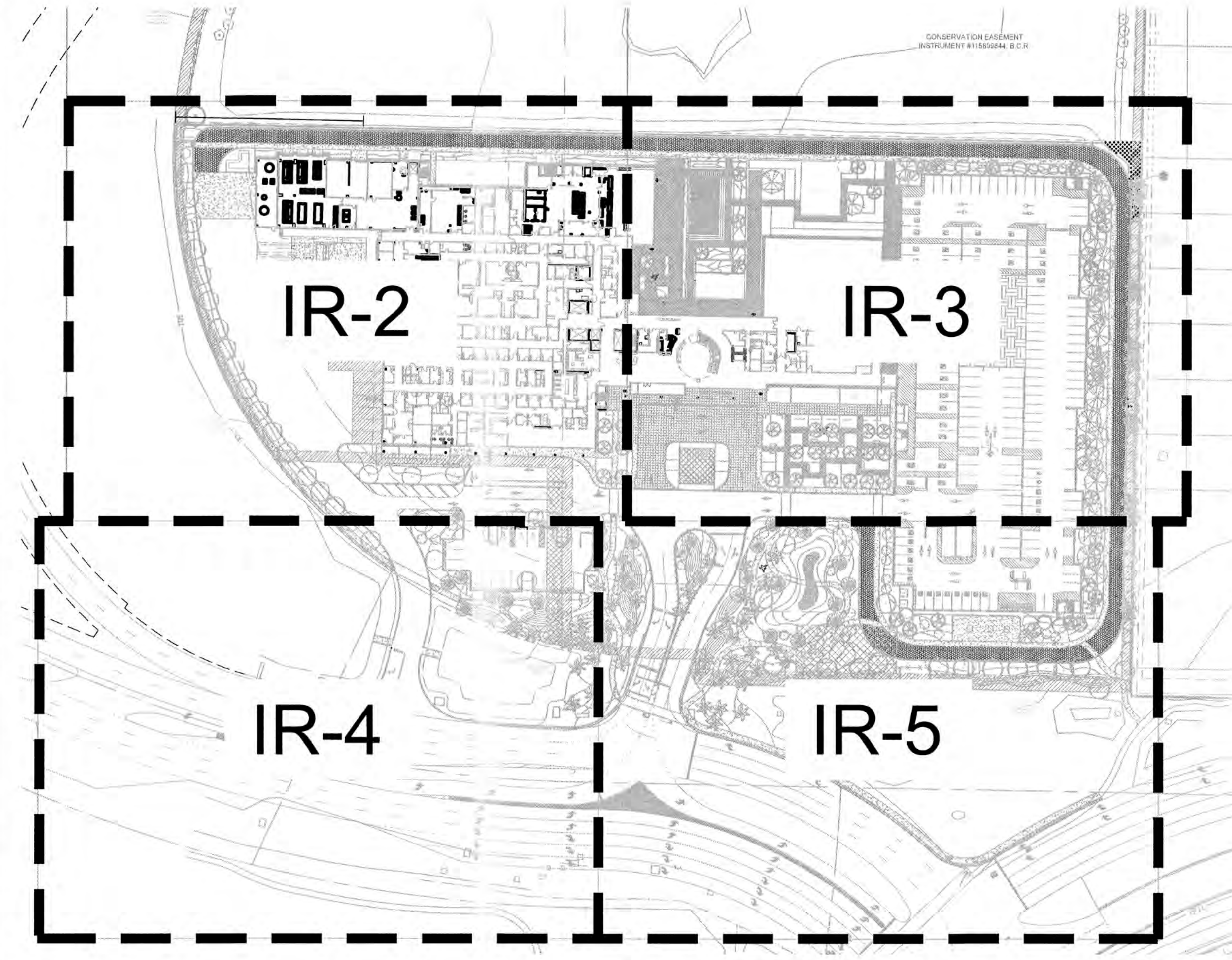
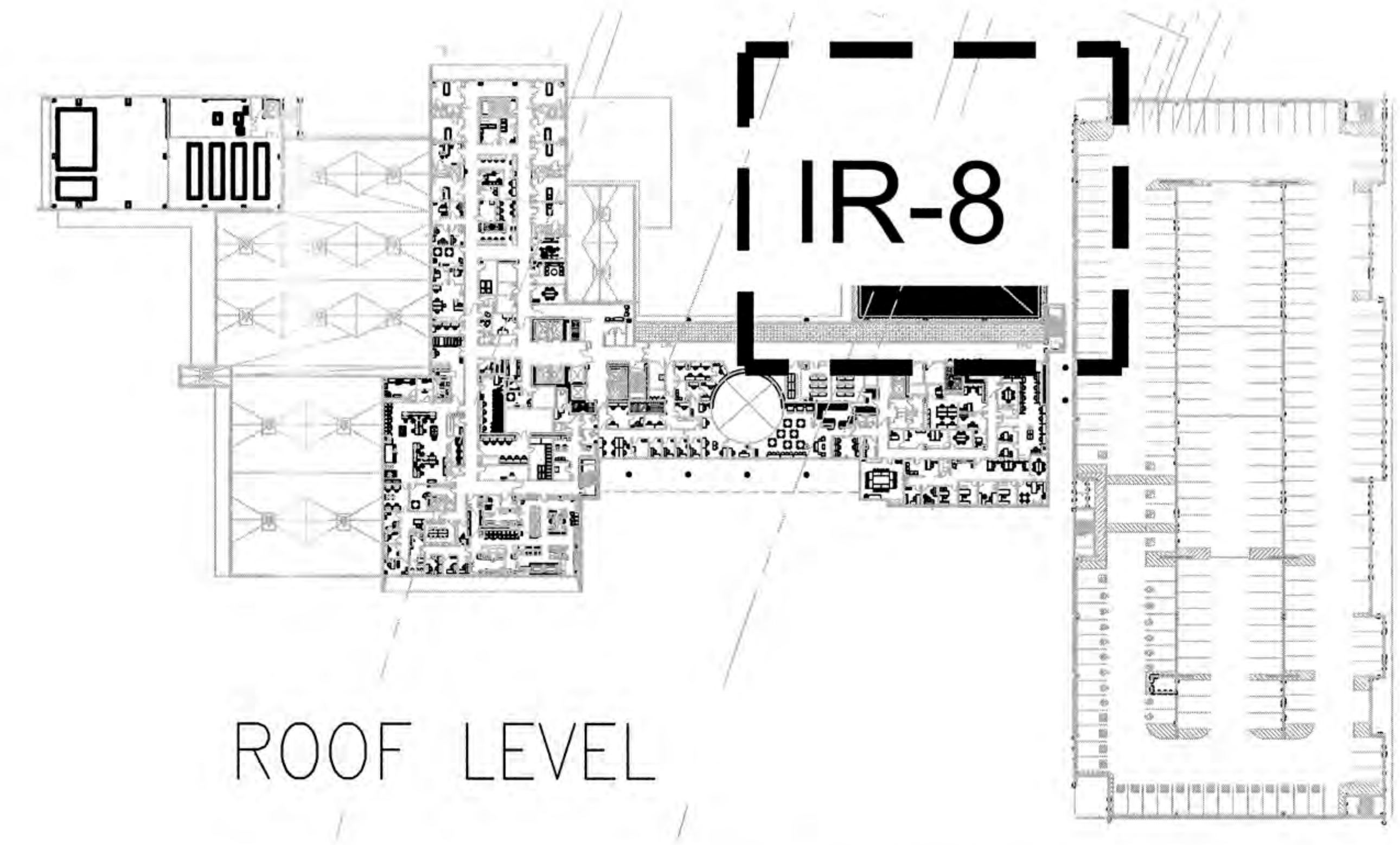


GROUND LEVEL TURF & SHRUBS

FOR TREE BUBBLERS: IR-6, IR-7



ROOF LEVEL

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IRRIGATION KEY MAP

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666976 STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666976
July 18, 2024

PROJECT NO.: 99-0039-002-01

DATE: 07/19/2024

DRAWING NO. IR-1

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IRRIGATION PLAN- UNDERSTORY

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE REAVIER LA 6668976 STATE OF FLORIDA
Scott W. Reavier
Florida R.L.A. No. 6668976
July 18th 2024

DATE: 07/19/2024

DRAWING NO. IR-2

PROJECT NO. 99-0039-002-01

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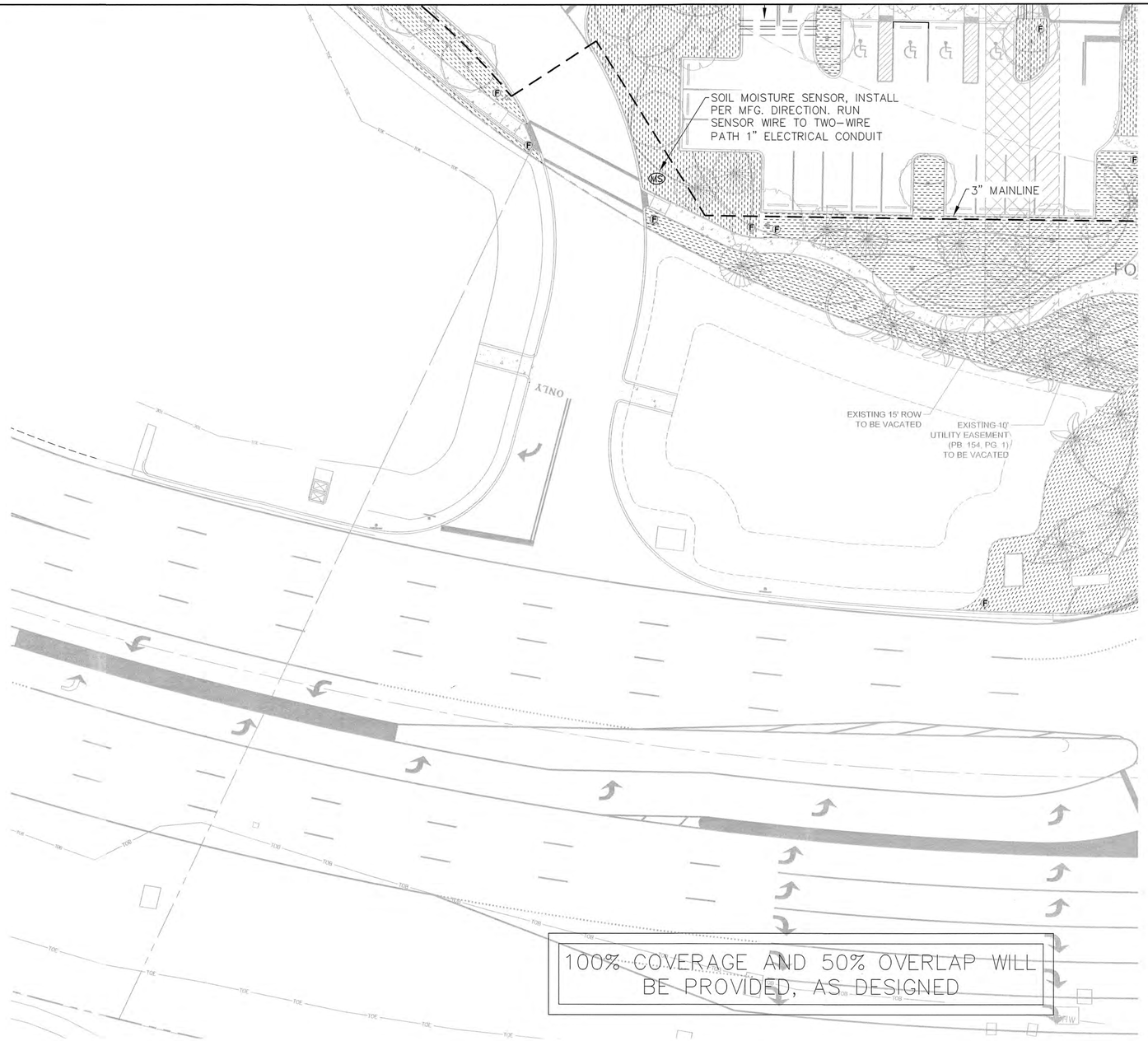
IRRIGATION PLAN- UNDERSTORY

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE REAVLER LA 6666976 STATE OF FLORIDA
Scott W. Reavler
Florida R.L.A. No. 6666976
July 16, 2024

DATE: 07/19/2024

DRAWING NO. IR-3

PROJECT NO. 99-0039-002-01



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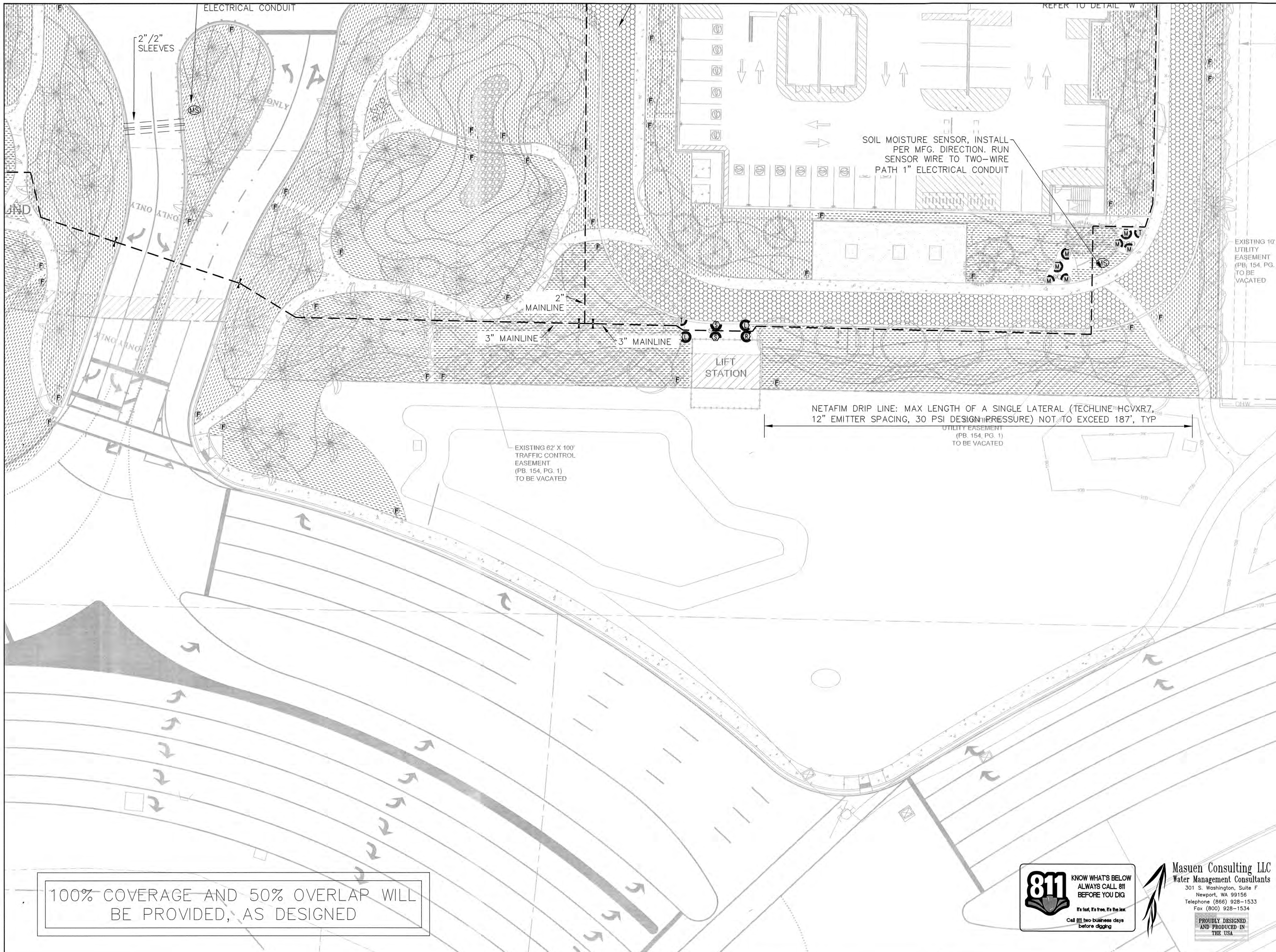
IRRIGATION PLAN- UNDERSTORY

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666976 STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666976
July 19, 2024

DATE: 07/19/2024
DRAWING NO. IR-4
PROJECT NO. 99-0039-002-01



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IRRIGATION PLAN- UNDERSTORY

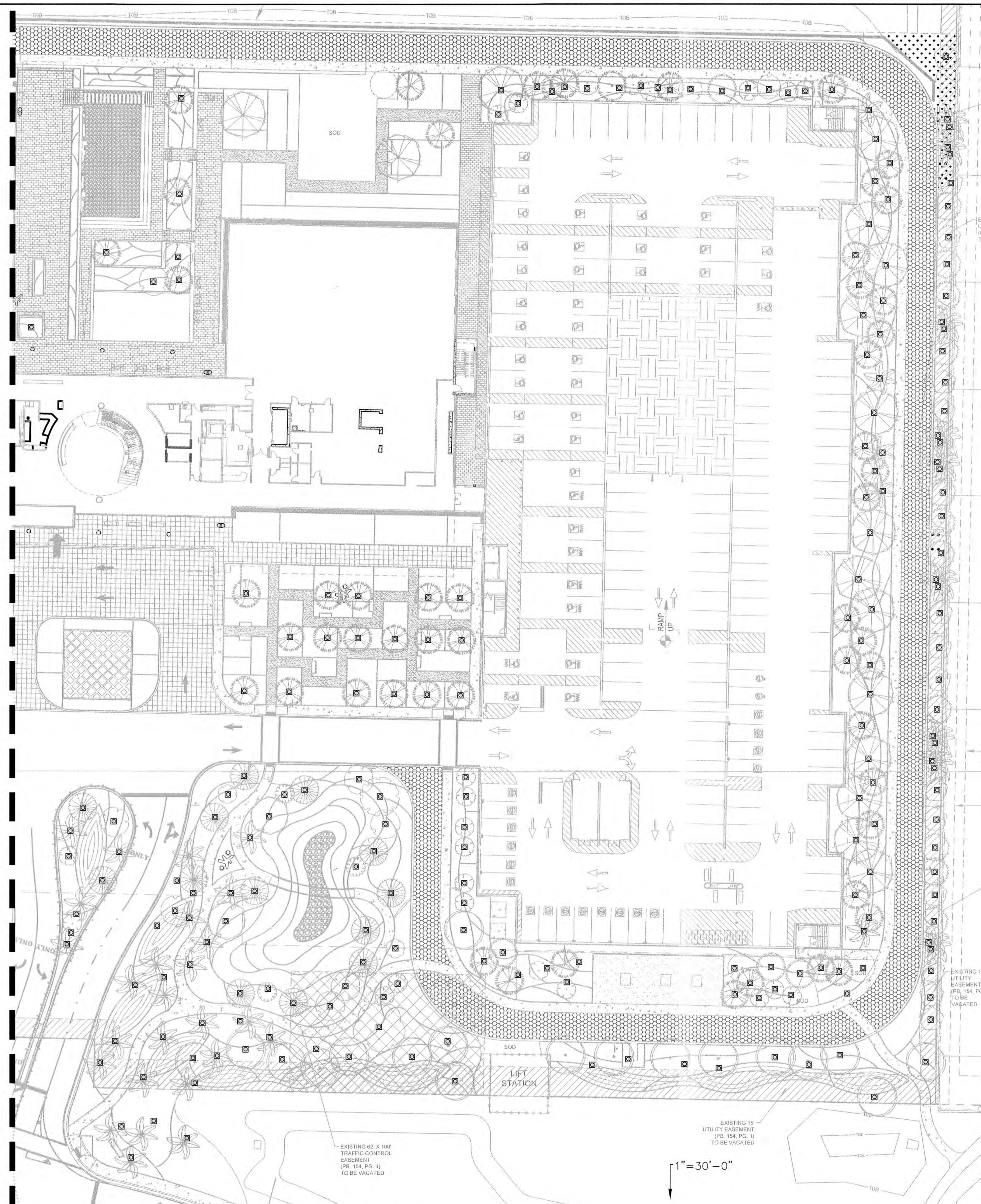
SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666976 STATE OF FLORIDA
Scott W. Peavler, Florida R.L.A. No. 6666976 July 18, 2024

DATE: 07/19/2024

DRAWING NO. IR-5

PROJECT NO. 99-0039-002-01

SEE SHEET IR-7 FOR CONTINUATION



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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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IRRIGATION PLAN - UNDERSTORY TREES

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666976 STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666976
July 18, 2024

DATE: 07/19/2024

DRAWING NO. IR-6

PROJECT NO. 99-0039-002-01

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FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000314

BAPTIST HEALTH SUNRISE HOSPITAL

12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

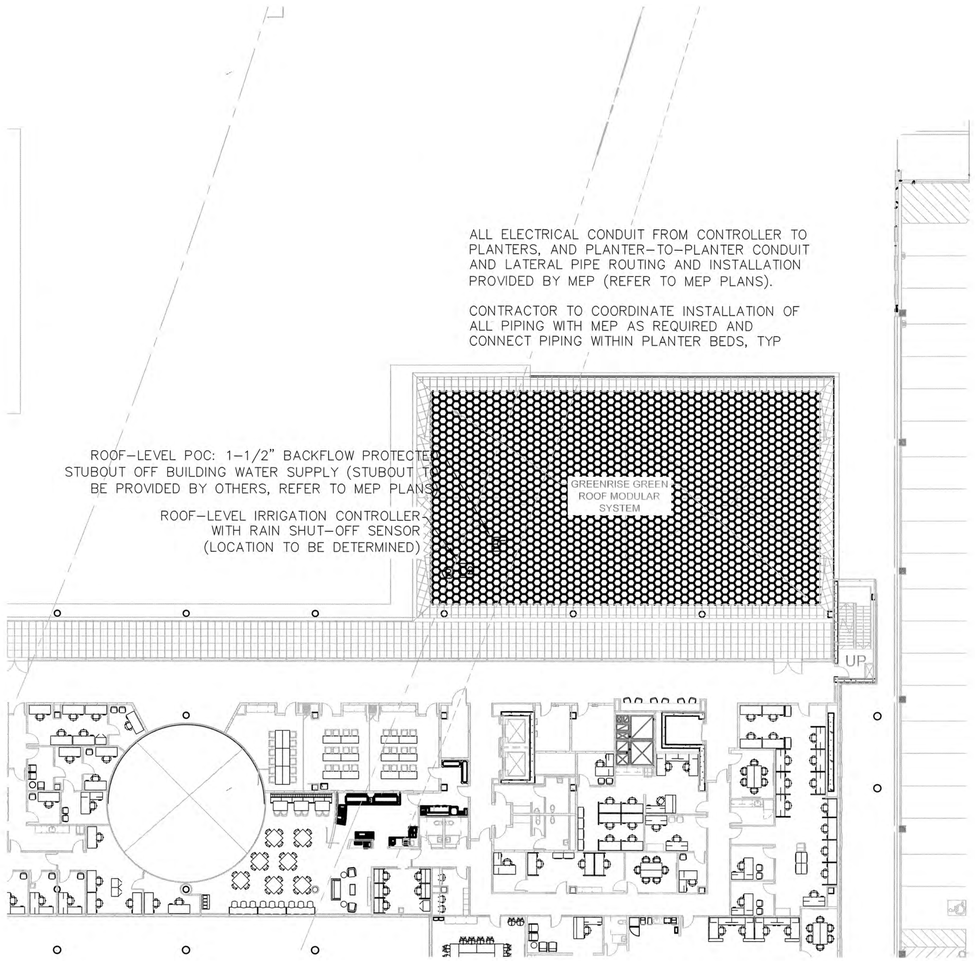
IRRIGATION PLAN - UNDERSTORY TREES

SEAL:
REGISTERED LANDSCAPE ARCHITECT
SCOTT WADE PEAVLER
LA 6666976
STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666976
July 18, 2024

DATE: 07/19/2024

DRAWING NO. IR-7

PROJECT NO. 99-0039-002-01



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Masuen Consulting LLC
Water Management Consultants
301 S. Washington, Suite F
Newport, WA 99156
Telephone (866) 928–1533
Fax (800) 928–1534

PROUDLY DESIGNED AND PRODUCED IN THE USA

0 10' 20' 40'
SCALE: 1"=20'-0"

LEAD DESIGN LANDSCAPE ARCHITECT:

swa/Balsley
31 West 27th Street
New York, NY
10001–6914
United States
www.swabalsley.com
+1.212.684.9230 o

LEAVE BLANK - FOR CITY USE ONLY

No.	REVISIONS	DATE	BY

SCALE: 1" = 20'-0"
DESIGNED BY: TFP
DRAWN BY: TFP
CHECKED BY: MO/MW

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
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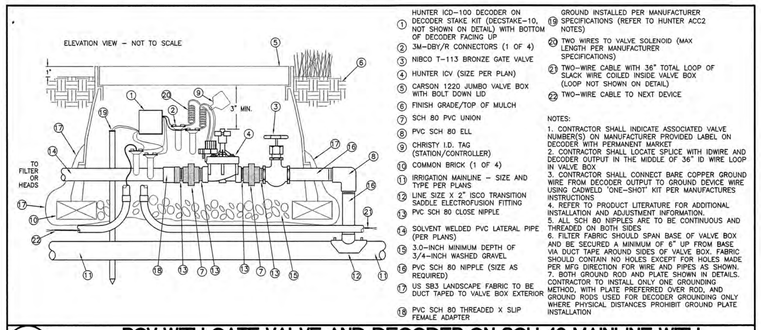
BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

IRRIGATION PLAN- ROOF

SEAL
REGISTERED LANDSCAPE ARCHITECT
SCOTT WADE WEAVER
LA 6666976
Scott W. Weaver
Florida R.L.A. No. 6666976
July 18, 2024

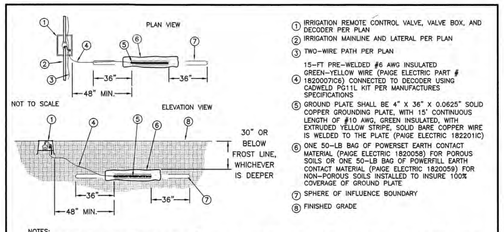
DATE: 07/19/2024
DRAWING NO. IR-8
PROJECT NO. 99-0039-002-01



1. HUNTER ICD-100 DECODER ON DECODER STAKE KIT (DECSTAKE-10, NOT SHOWN ON DETAIL) WITH BOTTOM OF DECODER FACING UP
2. 3M-DBY/R CONNECTORS (1 OF 4)
3. NIBCO T-113 BRONZE GATE VALVE
4. HUNTER ICV (SIZE PER PLAN)
5. CARSON 1220 JUMBO VALVE BOX WITH BOLT DOWN LID
6. FINISH GRADE/TOP OF MULCH
7. SCH 80 PVC UNION
8. PVC SCH 80 ELL
9. CHRISTY I.D. TAG (STATION/CONTROLLER)
10. COMMON BRICK (1 OF 4)
11. IRRIGATION MAINLINE – SIZE AND TYPE PER PLANS
12. LINE SIZE X 2" ISCO TRANSITION SADDLE ELECTROFUSION FITTING
13. PVC SCH 80 CLOSE NIPPLE
14. SOLVENT WELDED PVC LATERAL PIPE (PER PLANS)
15. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
16. PVC SCH 80 NIPPLE (SIZE AS REQUIRED)
17. US SB3 LANDSCAPE FABRIC TO BE DUCT TAPED TO VALVE BOX EXTERIOR
18. PVC SCH 80 THREADED X SLIP FEMALE ADAPTER
19. GROUND INSTALLED PER MANUFACTURER SPECIFICATIONS (REFER TO HUNTER ACC2 NOTES)
20. TWO WIRES TO VALVE SOLENOID (MAX LENGTH PER MANUFACTURER SPECIFICATIONS)
21. TWO-WIRE CABLE WITH 36" TOTAL LOOP OF SLACK WIRE COILED INSIDE VALVE BOX (LOOP NOT SHOWN ON DETAIL)
22. TWO-WIRE CABLE TO NEXT DEVICE

NOTES:
1. CONTRACTOR SHALL INDICATE ASSOCIATED VALVE NUMBER(S) ON MANUFACTURER PROVIDED LABEL ON DECODER WITH PERMANENT MARKET
2. CONTRACTOR SHALL LOCATE SPLICE WITH IDWIRE AND DECODER OUTPUT IN THE MIDDLE OF 36" ID WIRE LOOP IN VALVE BOX
3. CONTRACTOR SHALL CONNECT BARE COPPER GROUND WIRE FROM DECODER OUTPUT TO GROUND DEVICE WIRE USING CADWELD "ONE-SHOT" KIT PER MANUFACTURES INSTRUCTIONS
4. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION.
5. ALL SCH 80 NIPPLES ARE TO BE CONTINUOUS AND THREADED ON BOTH SIDES
6. FILTER FABRIC SHOULD SPAN BASE OF VALVE BOX AND BE SECURED A MINIMUM OF 6" UP FROM BASE VIA DUCT TAPE AROUND SIDES OF VALVE BOX. FABRIC SHOULD CONTAIN NO HOLES EXCEPT FOR HOLES MADE PER MFG DIRECTION FOR WIRE AND PIPES AS SHOWN.
7. BOTH GROUND ROD AND PLATE SHOWN IN DETAILS. CONTRACTOR TO INSTALL ONLY ONE GROUNDING METHOD, WITH PLATE PREFERRED OVER ROD, AND GROUND RODS USED FOR DECODER GROUNDING ONLY WHERE PHYSICAL DISTANCES PROHIBIT GROUND PLATE INSTALLATION

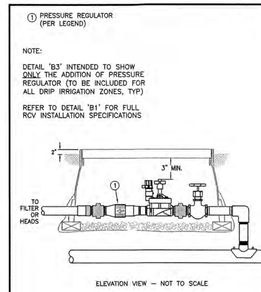
B1 RCV WITH GATE VALVE AND DECODER ON SCH 40 MAINLINE WITH PARALLEL RUN OF ELECTRICAL CONDUIT FOR CONTROL WIRE



1. IRRIGATION REMOTE CONTROL VALVE, VALVE BOX, AND DECODER PER PLAN
2. IRRIGATION MAINLINE AND LATERAL PER PLAN
3. TWO-WIRE PATH PER PLAN
4. 15-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 182000701C6) CONNECTED TO DECODER USING CADWELD PG11L KIT PER MANUFACTURES SPECIFICATIONS
5. GROUND PLATE SHALL BE 4" X 36" X 0.0625" SOLID COPPER GROUNDING PLATE, WITH 15" CONTINUOUS LENGTH OF #10 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE IS WELDED TO THE PLATE (PAIGE ELECTRIC 182201C)
6. ONE 50-LB BAG OF POWERSEET EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820058) FOR POROUS SOILS OR ONE 50-LB BAG OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS INSTALLED TO INSURE 100% COVERAGE OF GROUND PLATE
7. SPHERE OF INFLUENCE BOUNDARY
8. FINISHED GRADE

NOTES:
1. CONTRACTOR SHALL INSTALL GROUNDING IN ACCORDANCE TO MANUFACTURERS SPECIFICATIONS AND LOCAL CODES AND REQUIREMENTS
2. SPHERE OF INFLUENCE SHALL REMAIN FREE AND CLEAR OF WIRES, CABLES, ELECTRONIC EQUIPMENT, AND ANY EQUIPMENT THAT MAY BE DAMAGED DURING AN ELECTRICAL SURGE EVENT
3. CONTRACTOR SHALL INSURE 10HMS OR LESS RESISTANCE BETWEEN GROUND ROD AND CONTROLLER; MULTIPLE GROUND CONNECTIONS MAY BE NEEDED TO ACHIEVE 10 OHMS OR LESS RESISTANCE
4. CONTRACTOR SHALL INSTALL GROUNDING CIRCUIT COMPONENTS IN STRAIGHT LINES AVOIDING SHARP TURNS
5. CONTRACTOR SHALL JOIN BARE COPPER WIRES USING ERICO PG11L KIT PER MANUFACTURES SPECIFICATIONS
6. CONTRACTOR SHALL INSTALL EARTH GROUND PLATE AT 90° ANGLE FROM DIRECTION OF TWO-WIRE PATH

B2 GROUND PLATE AT DECODER



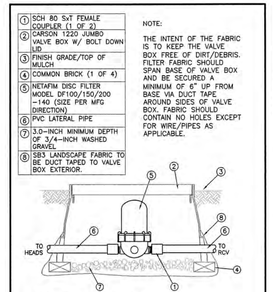
1. PRESSURE REGULATOR (PER LEGEND)

NOTE:

DETAIL 'B3' INTENDED TO SHOW ONLY THE ADDITION OF PRESSURE REGULATOR (TO BE INCLUDED FOR ALL DRIP IRRIGATION ZONES, TYP)

REFER TO DETAIL 'B1' FOR FULL RCV INSTALLATION SPECIFICATIONS

B3 PRESSURE REGULATOR (DRIP ZONES)

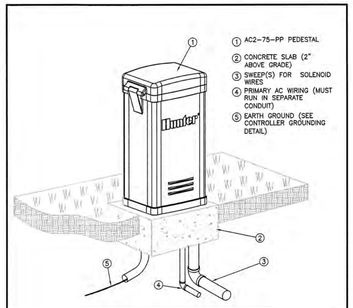


1. SCH 80 5xT FEMALE COUPLER (1 OF 2)
2. CARSON 1220 JUMBO VALVE BOX W/ BOLT DOWN LID
3. FINISH GRADE/TOP OF MULCH
4. COMMON BRICK (1 OF 4)
5. NETAFIM DISC FILTER MODEL DF100/150/200 -140 (SIZE PER MFG DIRECTION)
6. PVC LATERAL PIPE
7. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
8. SB3 LANDSCAPE FABRIC TO BE DUCT TAPED TO VALVE BOX EXTERIOR.

NOTE:

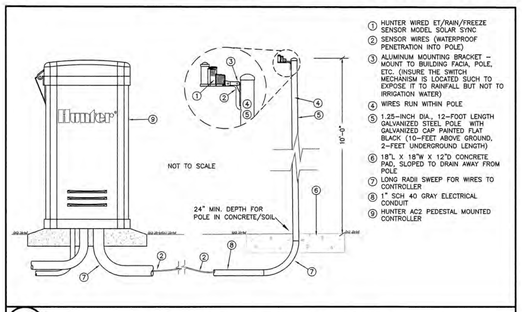
THE INTENT OF THE FABRIC IS TO KEEP THE VALVE BOX FREE OF DIRT/DEBRIS. FILTER FABRIC SHOULD SPAN BASE OF VALVE BOX AND BE SECURED A MINIMUM OF 6" UP FROM BASE VIA DUCT TAPE AROUND SIDES OF VALVE BOX. FABRIC SHOULD CONTAIN NO HOLES EXCEPT FOR WIRE/PIPES AS APPLICABLE.

B4 NETAFIM FILTER



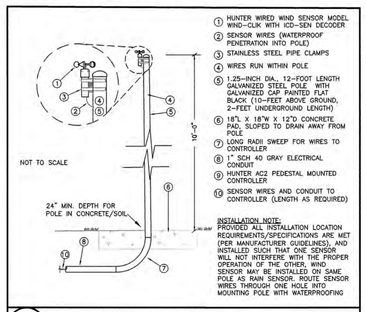
1. AC2-75-PP PEDESTAL
2. CONCRETE SLAB (2" ABOVE GRADE)
3. SWEEP(S) FOR SOLENOID WIRES
4. PRIMARY AC WIRING (MUST RUN IN SEPARATE CONDUIT)
5. EARTH GROUND (SEE CONTROLLER GROUNDING DETAIL)

C HUNTER ACC2 CONTROLLER



1. HUNTER WIRED ET/RAIN/FREEZE SENSOR MODEL SOLAR SYNC
2. SENSOR WIRES (WATERPROOF PENETRATION INTO POLE)
3. ALUMINUM MOUNTING BRACKET – MOUNT TO BUILDING FACIA, POLE, ETC. (INSURE THE SWITCH MECHANISM IS LOCATED SUCH TO EXPOSE IT TO RAINFALL BUT NOT TO IRRIGATION WATER)
4. WIRES RUN WITHIN POLE
5. 1.25-INCH DIA., 12-FOOT LENGTH GALVANIZED STEEL POLE WITH GALVANIZED CAP PAINTED FLAT BLACK (10-FEET ABOVE GROUND, 2-FEET UNDERGROUND LENGTH)
6. 18"L X 18"W X 12"D CONCRETE PAD, SLOPED TO DRAIN AWAY FROM POLE
7. LONG RADII SWEEP FOR WIRES TO CONTROLLER
8. 1" SCH 40 GRAY ELECTRICAL CONDUIT
9. HUNTER ACC2 PEDESTAL MOUNTED CONTROLLER

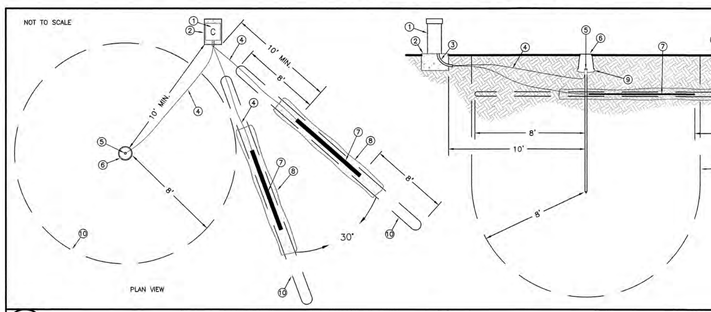
C2 HUNTER SOLAR SYNC SENSOR



1. HUNTER WIRED WIND SENSOR MODEL WIND-CLIK WITH ICD-SEN DECODER
2. SENSOR WIRES (WATERPROOF PENETRATION INTO POLE)
3. STAINLESS STEEL PIPE CLAMPS
4. WIRES RUN WITHIN POLE
5. 1.25-INCH DIA., 12-FOOT LENGTH GALVANIZED STEEL POLE, WITH GALVANIZED CAP PAINTED FLAT BLACK (10-FEET ABOVE GROUND, 2-FEET UNDERGROUND LENGTH)
6. 18"L X 18"W X 12"D CONCRETE PAD, SLOPED TO DRAIN AWAY FROM POLE
7. LONG RADII SWEEP FOR WIRES TO CONTROLLER
8. 1" SCH 40 GRAY ELECTRICAL CONDUIT
9. HUNTER ACC2 PEDESTAL MOUNTED CONTROLLER
10. SENSOR WIRES AND CONDUIT TO CONTROLLER (LENGTH AS REQUIRED)

INSTALLATION NOTE:
PROVIDED ALL INSTALLATION LOCATION REQUIREMENTS/SPECIFICATIONS ARE MET (PER MANUFACTURER GUIDELINES), AND INSTALLED SUCH THAT ONE SENSOR WILL NOT INTERFERE WITH THE PROPER OPERATION OF THE OTHER, WIND SENSOR MAY BE INSTALLED ON SAME POLE AS RAIN SENSOR. ROUTE SENSOR WIRES THROUGH ONE HOLE INTO MOUNTING POLE WITH WATERPROOFING

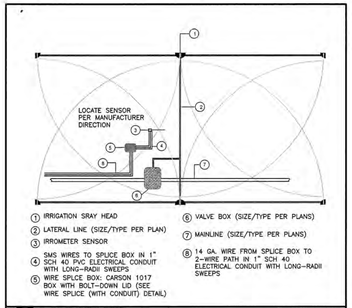
C3 HUNTER WIND-CLIK SENSOR



1. IRRIGATION CONTROLLER PER PLAN
2. CONCRETE CONTROLLER PAD
3. PVC ELL SWEEP, 1-1/2-IN MIN.
4. 15-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART #1820007IC6)
5. GROUND ROD SHALL BE 5/8-IN DIAMETER X 10-FT LONG COPPER CLAD STEEL GROUND RODS WITH 15-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART #182000IC6)
6. CARSON 910 10-IN DIAMETER ROUND BOX
7. 4-IN X 8-FT X 0.0625-IN SOLID COPPER GROUNDING PLATE, WITH 25-FT CONTINUOUS LENGTH OF 6 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE WELDED TO THE PLATE (PAIGE ELECTRIC 182199C)
8. TWO 50-LB BAGS OF POWERSEET EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820058) FOR POROUS SOILS OR TWO 50-LB BAGS OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS INSTALLED TO INSURE 100% COVERAGE OF GROUND PLATE
9. SB3 LANDSCAPE FABRIC AT BOTTOM OF BOX DUCT TAPED TO OUTSIDE OF BOX
10. SPHERE OF INFLUENCE BOUNDARY SPANNING 8-FT IN ALL DIRECTIONS IN EARTH FROM GROUND ROD
11. FINISHED GRADE

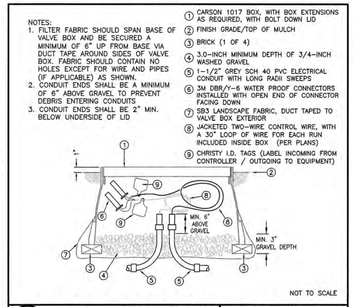
GROUNDING NOTES:
1. CONTRACTOR SHALL INSTALL GROUNDING IN ACCORDANCE TO MANUFACTURERS SPECIFICATIONS AND LOCAL CODES AND REQUIREMENTS
2. SPHERE OF INFLUENCE SHALL REMAIN FREE AND CLEAR OF WIRES, CABLES, ELECTRONIC EQUIPMENT, AND ANY EQUIPMENT THAT MAY BE DAMAGED DURING AN ELECTRICAL SURGE EVENT
3. GROUND ROD SHALL BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10-FT FROM THE ELECTRONIC EQUIPMENT, THE GROUND PLATE, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED
4. GROUND PLATE SHALL BE INSTALLED IN HORIZONTAL FLAT POSITION AT A LOCATION 10-FT FROM THE ELECTRONIC EQUIPMENT, THE GROUND ROD, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED
5. CONTRACTOR SHALL INSURE 10HMS OR LESS RESISTANCE BETWEEN GROUND ROD AND CONTROLLER; MULTIPLE GROUND CONNECTIONS MAY BE NEEDED TO ACHIEVE 10 OHMS OR LESS RESISTANCE.
6. CONTRACTOR SHALL INSTALL GROUNDING CIRCUIT COMPONENTS IN STRAIGHT LINES AVOIDING SHARP TURNS
7. GROUNDING ROD AND GROUNDING PLATE CONNECTIONS SHALL BE MADE USING CADWELD (ERICO) PG11L ONE SHOT KIT PER MANUFACTURES SPECIFICATIONS

C CONTROLLER GROUNDING (WITH GROUND ROD AND TWO GROUND PLATES)



1. IRRIGATION SRAY HEAD
2. LATERAL LINE (SIZE/TYPE PER PLAN)
3. IRROMETER SENSOR
4. SMS WIRES TO SPLICE BOX IN 1" SCH 40 PVC ELECTRICAL CONDUIT WITH LONG-RADII SWEEPS
5. WIRE SPLICE BOX: CARSON 1017 BOX WITH BOLT-DOWN LID (SEE WIRE SPLICE (WITH CONDUIT) DETAIL)
6. VALVE BOX (SIZE/TYPE PER PLANS)
7. MAINLINE (SIZE/TYPE PER PLANS)
8. 14 GA. WIRE FROM SPLICE BOX TO 2-WIRE PATH IN 1" SCH 40 ELECTRICAL CONDUIT WITH LONG-RADII SWEEPS

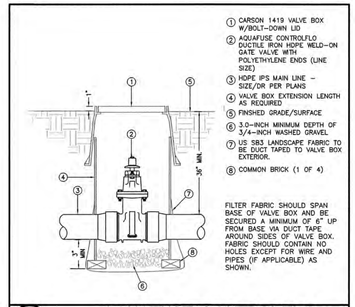
C4 SOIL MOISTURE SENSOR



NOTES:
1. FILTER FABRIC SHOULD SPAN BASE OF VALVE BOX AND BE SECURED A MINIMUM OF 6" UP FROM BASE VIA DUCT TAPE AROUND SIDES OF VALVE BOX. FABRIC SHOULD CONTAIN NO HOLES EXCEPT FOR WIRE AND PIPES (IF APPLICABLE) AS SHOWN.
2. CONDUIT ENDS SHALL BE A MINIMUM OF 6" ABOVE GRAVEL TO PREVENT DEBRIS ENTERING CONDUITS
3. CONDUIT ENDS SHALL BE 2" MIN. BELOW UNDERSIDE OF LID

1. CARSON 1017 BOX, WITH BOX EXTENSIONS AS REQUIRED, WITH BOLT DOWN LID
2. FINISH GRADE/TOP OF MULCH
3. BRICK (1 OF 4)
4. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
5. 1-1/2" GREY SCH 40 PVC ELECTRICAL CONDUIT WITH LONG RADII SWEEPS
6. 3M DBR/Y-6 WATER PROOF CONNECTORS INSTALLED WITH OPEN END OF CONNECTOR FACING DOWN
7. SB3 LANDSCAPE FABRIC, DUCT TAPED TO VALVE BOX EXTERIOR
8. JACKETED TWO-WIRE CONTROL WIRE, WITH A 30" LOOP OF WIRE FOR EACH RUN INCLUDED INSIDE BOX (PER PLANS)
9. CHRISTY I.D. TAGS (LABEL INCOMING FROM CONTROLLER / OUTGOING TO EQUIPMENT)

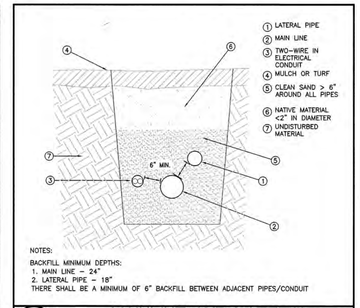
C TWO-WIRE SPLICE/PULL BOX (WITH SCH 40 ELEC. CONDUIT)



1. CARSON 1419 VALVE BOX W/BOLT-DOWN LID
2. AQUAFUSE CONTROLFLO DUCTILE IRON HDPE WELD-ON GATE VALVE WITH POLYETHYLENE ENDS (LINE SIZE)
3. HDPE IPS MAIN LINE – SIZE/DR PER PLANS
4. VALVE BOX EXTENSION LENGTH AS REQUIRED
5. FINISHED GRADE/SURFACE
6. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
7. US SB3 LANDSCAPE FABRIC TO BE DUCT TAPED TO VALVE BOX EXTERIOR.
8. COMMON BRICK (1 OF 4)

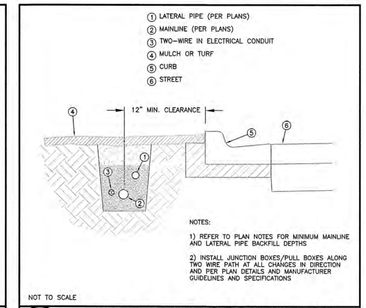
FILTER FABRIC SHOULD SPAN BASE OF VALVE BOX AND BE SECURED A MINIMUM OF 6" UP FROM BASE VIA DUCT TAPE AROUND SIDES OF VALVE BOX. FABRIC SHOULD CONTAIN NO HOLES EXCEPT FOR WIRE AND PIPES (IF APPLICABLE) AS SHOWN.

D AQUAFUSE CONTROLFLO DUCTILE IRON GATE VALVE



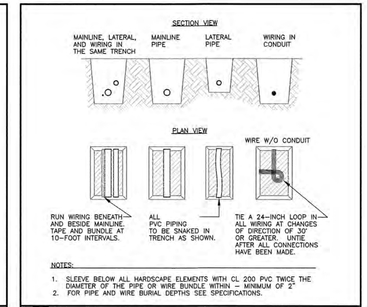
1. LATERAL PIPE
2. MAIN LINE
3. TWO-WIRE IN ELECTRICAL CONDUIT
4. MULCH OR TURF
5. CLEAN SAND > 6" AROUND ALL PIPES
6. NATIVE MATERIAL <2" IN DIAMETER
7. UNDISTURBED MATERIAL

L MAINLINE AND LATERAL BACKFILL DETAIL

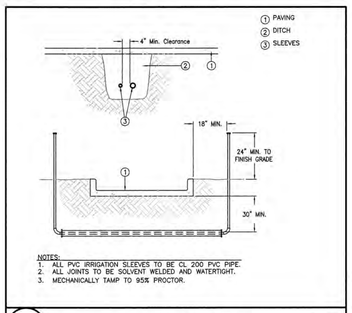


1. LATERAL PIPE (PER PLANS)
2. MAINLINE (PER PLANS)
3. TWO-WIRE IN ELECTRICAL CONDUIT
4. MULCH OR TURF
5. CURB
6. STREET

L MAINLINE WITH CONDUIT AND LATERAL PIPING DETAIL



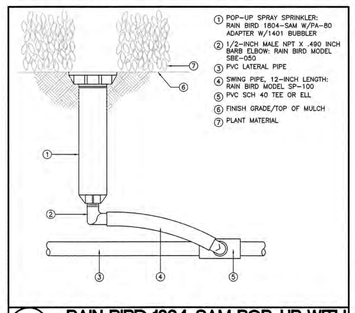
L PIPE AND WIRE TRENCHING



1. PAVING
2. DITCH
3. SLEEVES

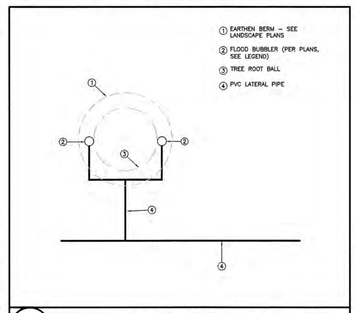
NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE CL 200 PVC PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. MECHANICALLY TAMP TO 95% PROCTOR.

O SLEEVING



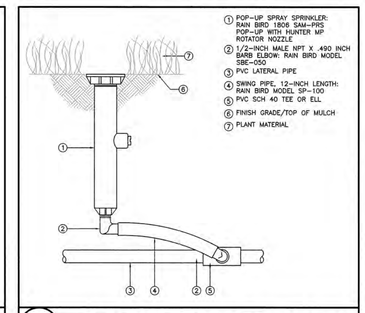
1. POP-UP SPRAY SPRINKLER: RAIN BIRD 1804-SAM W/PA-80 ADAPTER W/1401 BUBBLER
2. 1/2-INCH MALE NPT X .490 INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
3. PVC LATERAL PIPE
4. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
5. PVC SCH 40 TEE OR ELL
6. FINISH GRADE/TOP OF MULCH
7. PLANT MATERIAL

Q RAIN BIRD 1804-SAM POP-UP WITH 1401 BUBBLER



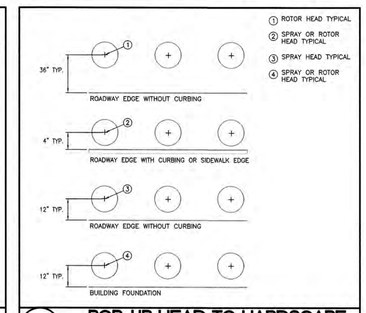
1. EARTHEN BERM – SEE LANDSCAPE PLANS
2. FLOOD BUBBLER (PER PLANS, SEE LEGEND)
3. TREE ROOT BALL
4. PVC LATERAL PIPE

Q BUBBLER PLACEMENT



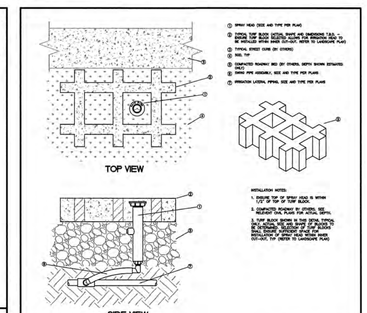
1. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806 SAM-PRS POP-UP WITH HUNTER MP ROTATOR NOZZLE
2. 1/2-INCH MALE NPT X .490 INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
3. PVC LATERAL PIPE
4. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
5. PVC SCH 40 TEE OR ELL
6. FINISH GRADE/TOP OF MULCH
7. PLANT MATERIAL

R RAIN BIRD 1806 SAM-PRS SPRAY



1. ROTOR HEAD TYPICAL
2. SPRAY OR ROTOR HEAD TYPICAL
3. SPRAY HEAD TYPICAL
4. SPRAY OR ROTOR HEAD TYPICAL

T POP-UP HEAD TO HARDSCAPE LOCATION DETAIL-A



W SPRAY HEAD INSTALLED WITHIN TURF BLOCK (OR GRASS-2-PAVE, TYP)

LEAD DESIGN LANDSCAPE ARCHITECT:

swa/Balsley
31 West 27th Street
New York, NY
10001-6914
United States
www.swabalsley.com
+1.212.684.9230

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No.	REVISIONS	DATE	BY

SCALE: N.T.S.
DESIGNED BY: TFP
DRAWN BY: TFP
CHECKED BY: MO/MW

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. 0000114

BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

IRRIGATION DETAILS

SEAL: REGISTERED LANDSCAPE ARCHITECT, SCOTT WADE PEAVLER, LA 6666976, Scott W. Peavler, Florida R.L.A. No. 6666976, (July 19, 2024)
DATE: 07/19/2024
PROJECT NO.: 99-0039-002-01
DRAWING NO.: IR-9

NETAFIM™ IRRIGATION NOTES

PART 1 – SUBMITTALS

1.01 Submit one (1) copy of manufacturers catalog cut sheets of the following listed items (in electronic/PDF format):

1. Netafim dripper tubing specified with pressure compensating emitters
2. Netafim insert barbed fittings
3. Netafim in–line disc filter
4. Netafim pressure regulator
5. Stainless steel clamps
6. Metal ground stakes for tubing
7. PVC threaded and insert fittings

1.02 Spare parts – upon completion of the installation, turn over the following spare parts and specialty tool to the owner's authorized representative. Include with the following quantities of items a list of each part with appropriate part number (for ordering replacement products) and local supply store of where these parts can be purchased:

(10') Of dripper line for each dripper interval and discharge rate used on the project
(6) Barbed couplings
(6) Barbed 90 degree elbow fittings
(6) Barbed tee fittings
(6) 180 degree 2–way adapter tee fittings
(6) Male adapters with 3/4" fpt
(1) Spare filter element of the same mesh size used on the project

PART 2 – MATERIALS

2.10 Piping materials – Netafim pressure compensating landscape dripline model TLHCVXR–RW7–12XX with check valve and anti–siphon feature shall be of nominal sized one–half inch low density, ultraviolet resistant, linear polyethylene tubing with internal pressure–compensating, self–cleaning, integral drippers (each with a built in check valve) at a specified interval. The tubing shall be brown in color and shall conform to an outside diameter (O.D.) of .66" and an inside diameter (I.D.) of .56". The low volume tubing shall be capable of discharging 0.77 gallons per hour (G.P.H.) between operating pressures of 15 to 50 PSI for each dripper. The individual self–cleaning, pressure–compensating drippers shall be co–extruded to the inside of the tubing wall. The emitters are constructed of three individual pieces:

1. A black–colored dripper containing a filtration system on the inlet side, compensation cell, and recessed chamber with a water outlet.
2. A hard plastic diaphragm retainer, colored black (0.77 gph) with chamfered edges and a recessed groove in the center, the full length of the diaphragm.
3. A flexible black rubber diaphragm that allows excessive pressure to build up within the chamber to purge sediment or other debris that may not have been captured by the disc filter.

2.20 Insert barbed fittings – shall be constructed of molded, ultraviolet resistant, brown colored plastic having a nominal inside dimension (I.D.) of .56". Each fitting shall have a minimum of two ridges or barbs per outlet. All fittings shall be of one manufacturer and shall be available in one of the following end configurations:

– Barbed insert fittings
– Male pipe threads (MPT) with barbed insert fittings
– Female pipe threads (FPT) with barbed insert fittings

2.30 Pressure regulation valves –Pressure regulation is required for all drip valves. Refer to legend.

2.40 Disc filter – the disc filter body shall be molded black plastic with male pipe threads (MPT) for both the inlet and the outlet ports. A threaded cap on one end of the body shall be capable of periodic servicing by unscrewing the cap from the main filter body. On the 3/4" model, a manual shutoff valve shall be co–molded to the opposing end of the removable cap as a part of the main body. This device shall be capable of closing off the inlet port so the disc element can be removed when the main line is still pressurized. The filter elements shall be either a disc–type or a canister screen filter. The disc–type shall be color coded in one of four colors denoting filtration of 80,120,140, and 200 mesh. The canister type screen shall be available in three levels of filtration, 80,120, and 140 mesh.

2.50 Stainless steel clamps – tubing clamps shall be constructed to 304 ANSI stainless steel and shall be one 'ear' type. The 'ear' shall be capable of being pinched with a pinching tool to secure the tubing around the insert barbed fitting. The interior clamp wall shall be smooth to prevent crimping or pinching of the tubing. Wall thickness of clamps shall be .0236" with an overall band width of 1/4". Properly secured clamps shall be capable of withstanding a maximum operating pressure of 441 psi.

PART 3 – EXECUTION

3.10 Staking for lateral dripper line layout – verify existing field dimensions of the area to be irrigated using the irrigation plans for reference/accuracy. Begin dripper tubing layout 4" away from both hardscape surfaces; i.e., concrete sidewalks, curbs, asphalt, and/or undefined edges; i.e.., shovel–cut headers. Mark tubing intervals on the ground with flags, paint, or some other markings that can be maintained throughout the installation.

3.11 Installation of dripper tubing – tubing can be installed in one of two following methods:

1. Over excavation – In small areas, where it is feasible, over–excavate the entire area to a depth of 4" below finish grade. Plant all specimen trees and shrubs, then place tubing at the row spacing interval indicated on the plans.
2. Trenching – hand or mechanically trench to the pipe depth (4") and back fill flush with finish grade. Avoid mechanically trenching within the drip line of existing trees and shrubs. Hand trench around existing trees and shrubs when root sizes greater than 1" in diameter are encountered. Remove all rock 1–1/2" in diameter and larger when excavating and remove from site. Do not back fill trenches with rock that will come in direct contact with tubing or rigid PVC piping.

3.12 Cover – Install all underground piping horizontally and as level as possible. PVC piping should be installed to the depths and in the manner outlined in the general irrigation notes. Netafim tubing should be installed to a depth of 4" in shrub areas and 6" in turf areas. Netafim tubing should be installed with the water outlets in upward or downward facing position. Offset the outlets in adjacent rows to obtain a triangular pattern throughout the tubing layout. In irregular areas, some water outlets may end up too close to fixed improvements and may have to be capped off with a dripper plug ring.

3.13 Barbed fittings – Connect dripper tubing to barbed fittings by pushing on and over both barbs until the tubing has seated against another piece of tubing or has butted against another portion of the barbed fitting. For water pressures in excess of 40 psi, use stainless steel clamps as outlined in section 3.50 (pipe clamping).

3.14 Pipe clamping – When design operating pressure exceeds 40 psi, stainless steel pipe clamps shall be used. Slip clamps over tubing before slipping tubing over insert barbed fitting. Place clamp between the first and second ridge of the barbed fittings and crimp the 'ear' of the clamp tightly. Crimp the 'ear' a second time to ensure proper seating.

3.15 Pressure regulator – If a pressure regulator is specified, install it below grade, downstream, and in line with the remote control valve. Refer to the detail sheet. If a prv is specified it will be detailed with the remote control valve. Place the regulator with the arrow, that is molded into the side of the body, pointing in the direction of the flow of water. Provide straight piping on the outlet side of the regulator for a dimension not less than three lengths of the overall body dimension.

3.16 Remote control valve – Install the remote control valves level and below grade with a minimum of 4" of clearance to the top of the inside of the valve box cover. The arrow cast or molded into the side/bottom of the remote control valve should be pointing in the direction of the flow of water. Place a minimum of one cubic foot of 3/4" gravel in the bottom of the valve box. Support each corner of the valve box with a common red brick. At finish grade, the top of the valve box shall be two inches above surrounding grades.

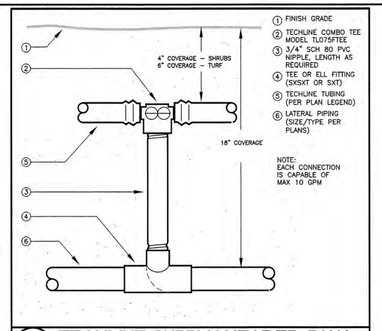
3.17 Disc filter – Install the disc filter, horizontally level, below grade and after the remote control valve (refer to the detail and note sheets). The position of the disc filter in the valve box shall be off–center to allow for removal of the disc element for periodic servicing. Include a minimum of 3" deep of 3/4" gravel in the bottom of the valve box. Support the valve box using a common red brick under each corner of the valve box.

3.18 Flushing – Prior to backfill and before connection of the line flushing valves, flush the entire system to remove any dirt or sediment that may have entered the system during installation.

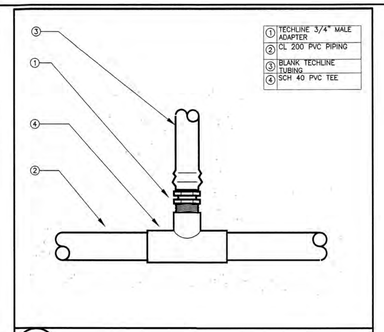
3.19 Testing – Prior to backfill, open the remote control valve and operate each zone. Check for leakage around barbed and threaded fittings. Make the necessary repairs to stop all leaks. After repairs, re–test to insure all leaks have been repaired. Continue this process until no more leaks are observed.

3.20 Backfill – After placement of tubing, connection to rigid PVC supply header, and initial system flushing, and testing, backfill can begin. Fill remainder of trenches, or where over–excavation and grade level installation was used, place shovel fulls of dirt on piping to keep them in place and maintain row spacing intervals as required. Bring soil up to finished grade and remove any rocks larger than 1" during final grading and contouring. Compact backfill by hand to a minimum of 90% relative compaction. Maintain adequate soil levels as needed to achieve the required compaction requirement.

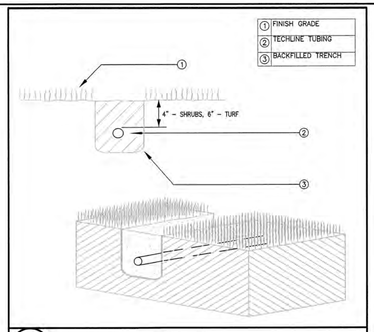
3.21 Automatic Flush Valves – install automatic flush valves on all zones per manufacturer specificaitons.



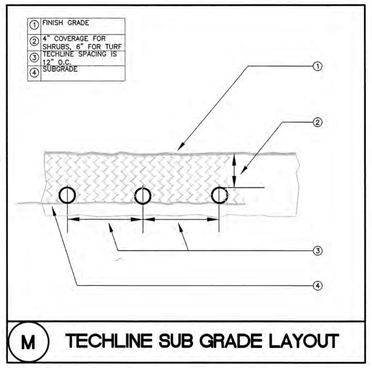
M1 TECHLINE SUPPLY HEADER–DUAL FEED



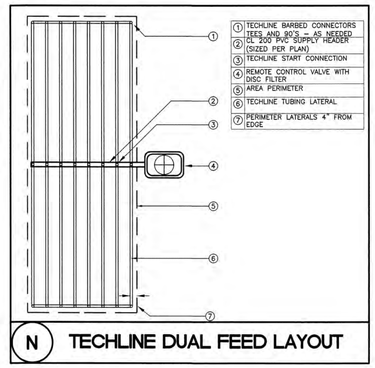
M TECHLINE TO PVC CONNECTION



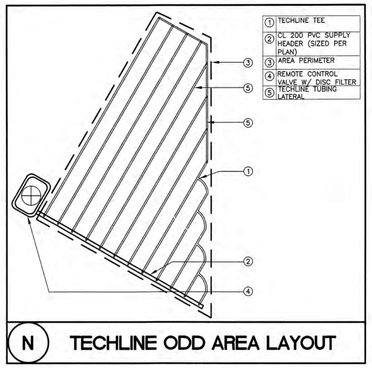
M TECHLINE TRENCHING DETAIL



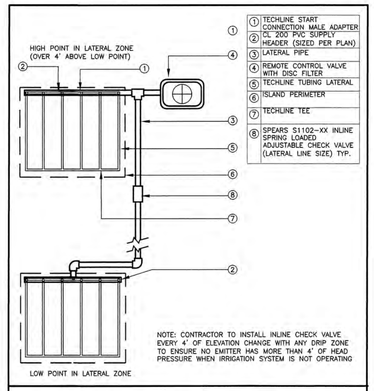
M TECHLINE SUB GRADE LAYOUT



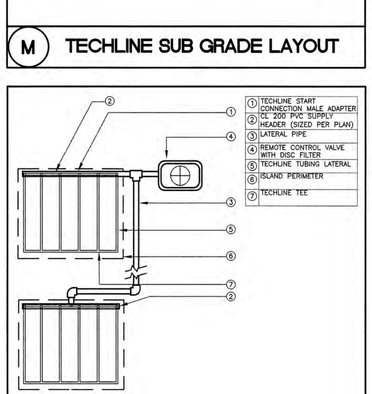
N TECHLINE DUAL FEED LAYOUT



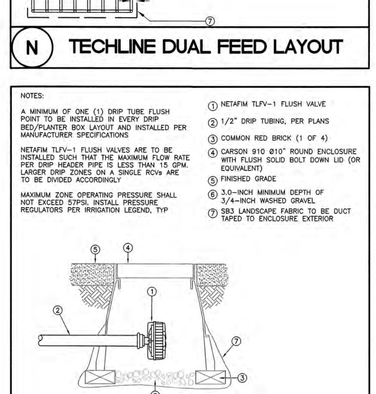
N TECHLINE ODD AREA LAYOUT



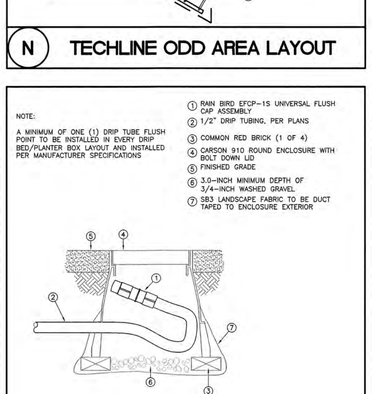
N TECHLINE MULTIPLE PLANTER LAYOUT WITH CHECK VALVE



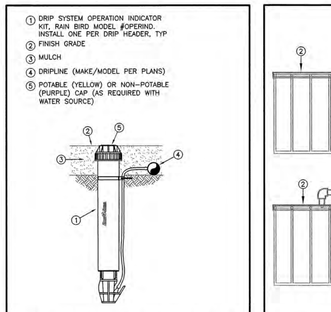
N TECHLINE MULTIPLE PLANTER LAYOUT



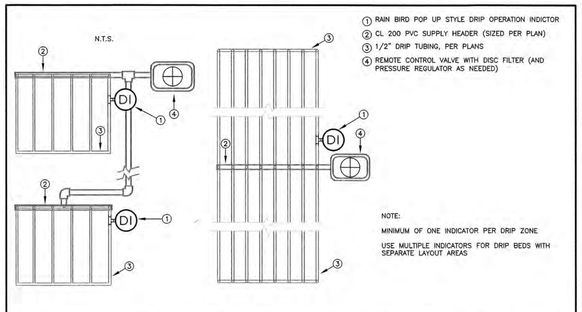
N DRIP TUBE AUTOMATIC FLUSH VALVE



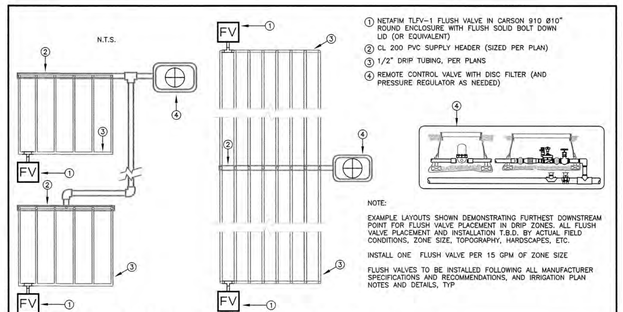
N ALTERNATE MANUAL DRIP TUBE FLUSH POINT



N RAIN BIRD OPERATION INDICATOR



N DRIP OPERATION INDICATOR, MIN. ONE PER ZONE



N FLUSH VALVE PLACEMENT AT FURTHEST DOWNSTREAM POINT

LEAD DESIGN LANDSCAPE ARCHITECT:

SWA/Balsley

31 West 27th Street
New York, NY
10001–6914
United States
www.swabalsley.com
+1.212.684.9230

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DRAWN BY: TFP
CHECKED BY: MO/MW

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS · PLANNERS · SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739–6409 TEL: (954) 739–6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE BEAVLER LA 6666976 STATE OF FLORIDA
Scott W. Beavler
Florida R.L.A. No. 6666976
July 16,2024

DATE: 07/19/2024
DRAWING NO. IR-10
PROJECT NO. 99-0039-002-01

IRRIGATION PUMP TO BE INCLUDED ON FUTURE SUBMITTAL

LEAD DESIGN
LANDSCAPE ARCHITECT:

SWA/Balsley

31 West 27th Street
New York, NY
10001-6914
United States
www.swabalsley.com
+1.212.684.9230 o

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DESIGNED BY: TFP

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ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
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BAPTIST HEALTH SUNRISE HOSPITAL

12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

IRRIGATION PUMP

SEAL: REGISTERED LANDSCAPE ARCHITECT SCOTT WADE PEAVLER LA 6666975 STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666975
July 18, 2024

DATE: 07/19/2024

PROJECT NO.: 99-0039-002-01

DRAWING NO.: IR-11

ACC2 TWO-WIRE IRRIGATION PLAN NOTES

DECODERS

CONTROLLER SHALL INTERFACE WITH HUNTER ICD DECODERS, EACH CAPABLE OF CONTROLLING 1, 2, 4, OR 6 VALVES (ICD-100, ICD-200, ICD-400, AND ICD-600)

PROVIDE AN ICD-SEN SENSOR DECODER FOR FLOW SENSOR(S) AND/OR CLIK SENSOR(S) ON TWO WIRE PATH

WIRE CONNECTIONS FROM DECODER OUTPUT TO SOLENOID SHALL BE 14 AWG, TYPE PE
WIRE DISTANCE FROM DECODER OUTPUT TO SOLENOID UNDER NORMAL CONDITIONS SHALL NOT EXCEED 150-FT

INSTALL IN VALVE BOX ON DECODER STAKE KIT (DECSTAKE-10) WITH BOTTOM OF DECODER FACING UP

CONTRACTOR SHALL INDICATE ASSOCIATED VALVE NUMBER(S) ON MANUFACTURER PROVIDED LABEL ON DECODER WITH PERMANENT MARKER

WIRE

WIRE FOR TWO-WIRE PATH SHALL BE TWISTED AND JACKETED HUNTER IDWIRE, OR APPROVED EQUAL (PAIGE ELECTRIC P7354D); COATED WIRE SHALL NOT BE ACCEPTED AS AN EQUAL. ACCEPTABLE EQUAL PRODUCTS MUST CONSIST OF TWO SEPARATELY PE JACKETED WIRE TWISTED INSIDE OF A PE JACKET

CONTRACTOR SHALL INSTALL IDWIRE1 (14 AWG) FOR WIRE PATH LENGTH UP TO 10,000-FT AND IDWIRE2 (12 AWG) FOR WIRE PATH LENGTH UP TO 15,000-FT, WIRE PATH LENGHTS DECREASE WITH SUBSTITUTED WIRE

WIRE JACKET COLORS SHALL BE SUCH TO FACILITATE THE IDENTIFICATION OF VARIOUS WIRE PATH ZONES; SEE WIRE JACKET CHART FOR WIRE TYPE, COLOR AND ASSOCIATED VALVES

THE CONTROLLER ALLOWS UP TO THREE (3) TWO-WIRE PATHS PER OUTPUT MODULE, CONTRACTOR SHALL NOT CONNECT ANY TWO-WIRE PATH FROM ONE OUTPUT MODULE TO ANOTHER OUTPUT MODULE

WIRE CONNECTION FROM DECODER OUTPUT TO SOLENOID SHALL BE COLORED TO MATCH THE ASSOCIATED DECODER OUTPUT STATION COLOR; RED AND BLUE COLORED WIRES SHALL NOT BE USED FOR CONNECTION BETWEEN DECODER OUTPUT AND SOLENOID

SPLICES

ALL CONNECTIONS AND SPLICES IN THE RED/BLUE TWO-WIRE PATH MUST BE MADE WITH 3M DBR/Y-6 WATERPROOF CONNECTORS INSTALLED PER MANUFACTURERS INSTRUCTIONS IN VALVE BOX WITH OPEN END OF CONNECTOR FACING DOWN

CONTRACTOR SHALL PROVIDE 36-IN LOOP OF SLACK WIRE, MEASURED FROM TOP OF VALVE BOX, NEATLY COILED INSIDE ALL SPLICE BOXES AND VALVE BOXES

ANY SPLICES IN THE TWO-WIRE PATH NOT ASSOCIATED WITH A DECODER SHALL BE HOUSED IN SEPARATE VALVE BOXES WITH 36-IN LOOP OF SLACK WIRE

CONTRACTOR SHALL INDICATE TWO-WIRE PATH DIRECTIONS IN PERMANENT MARKER WITHIN 6-IN OF TWO-WIRE SPLICE ON WIRE JACKET OR ID TAG ZIP TIED TO WIRE:

- INCOMING WIRE SHALL BE MARKED "CONTROLLER"ON WIRE JACKET OR ID TAG AND MUST INCLUDE ZIP-TIE ATTACHED TO WIRE JACKET
- EACH OUTGOING TWO-WIRE PATH SHALL BE MARKED WITH CONNECTED VALVES ON WIRE JACKET

CONTRACTOR SHALL ENSURE ALL CONNECTIONS TO BE WATERTIGHT WITH NO ELECTRICAL LEAKAGE TO GROUND OR SHORTING BETWEEN CONDUCTORS

GROUNDING

ALL GROUNDING AND INSTALLATION OF EQUIPMENT SPECIFIED SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS

BOTH THE CONTROLLER AND THE DECODERS SHALL BE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE

IRRIGATION CONTROLLER AND PAD SHALL NOT FALL WITHIN THE SPHERE OF INFLEUNCE OF A GROUND ROD OR PLATE

AT A MINIMUM, EARTH GROUND SHALL BE CONNECTED AT THE FIRST DECODER OF EACH WIRE PATH LEAVING THE CONTROLLER, AND EVERY 12TH VALVE/DECODER OR 1,000-FT OF TWO-WIRE RUN (WHICHEVER IS SHORTER), AND AT THE LAST VALVE/DECODER IN ANY WIRE RUN EXCEEDING 50' FROM MAIN WIRE PATH. IN LIGHTNING PRONE AREAS, GROUNDING EVERY 6TH VALVE/DECODER OR 500-FT OF TWO-WIRE RUN (WHICH EVER IS SHORTER) IS RECOMMENDED

FOR USE OF GROUNDING PLATE:
SOLID COPPER GROUNDING PLATE SHALL HAVE A PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE

GROUND PLATES ARE TO BE INSTALLED TO A MINIMUM DEPTH OF 30-IN

GROUND PLATES SHALL BE MADE OF A COPPER ALLOY INTENDED FOR GROUNDING APPLICATIONS AND HAVE MINIMUM DIMENSIONS AS FOLLOWS:

A. FOR GROUNDING CONTROLLERS – 4-IN X 8-FT X 0.0625-IN SOLID COPPER GROUNDING PLATE, A 25-FT CONTINUOUS LENGTH OF 6 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE WELDED TO THE PLATE (PAIGE ELECTRIC 182199IC) AND TWO 50-LB BAGS OF POWER SET EARTH CONTACT MATERIAL OR TWO 50-LB BAGS OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS

B. FOR GROUNDING DECODERS – 4-IN X 36-UB X 0.0625-IN SOLID COPPER GROUNDING PLATE, A 15-FT CONTINUOUS LENGTH OF 10 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE IS WELDED TO THE PLATE (PAIGE ELECTRIC 182201IC) AND ONE 50-LB BAG OF POWER SET EARTH CONTACT MATERIAL OR ONE 50-LB BAGS OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS

FOR USE OF GROUNDING ROD:
GROUND ROD SHALL BE 5/8-IN DIAMETER X 10-FT LONG COPPER CLAD STEEL GROUND RODS WITH 15-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 182000IC6)

GROUND ROD SHALL BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10-FT FROM THE ELECTRONIC EQUIPMENT, THE GROUND PLATE, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED

ADDITIONAL GROUND ROD IN DAISY CHAIN INSTALLATION SHALL BE 5/8-IN DIAMETER X 10-FT LONG COPPER CLAD STEEL GROUND RODS WITH 25-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART #182007IC6)

GROUND RODS SHALL BE COVERED BY A VALVE BOX

ALL CIRCUIT COMPONENTS SHALL BE INSTALLED IN STRAIGHT LINES

GROUND ROD AND PLATE LOCATION

CONTRACTOR SHALL LOCATE AND INSTALL GROUND ROD AND/OR PLATE IN AREA OF REGULAR MOIST SOIL TO MAXIMZE ELECTRICAL CONDUCTIVITY

GROUND ROD AND PLATE CONNECTIONS

CONTRACTOR SHALL USE CADWELD (ERICO) ONE SHOT KITS (PG11L) FOR ALL CONNECTIONS (KIT PER MANUFACTURER SPECIFICATIONS AND GUIDELINES)

SURGE PROTECTION (LIGHTNING ARRESTOR)

CONTRACTOR SHALL INSTALL PAIGE ELECTRIC 250090LED LIGHTENING ARRESTOR PER MANUFACTURERS SPECIFICATIONS AS CLOSE TO POWER SOURCE AS POSSIBLETO PROTECT THE IRRIGATION CONTROLLER FROM SURGES THROUGH 120 OR 240 VAC WIRES

TURNOVER ITEMS

CONTRACTOR SHALL PROVIDE PROJECT OWNER WITH THE FOLLOWING AT COMPLETION AND TURN OVER:

- A2C-D SD CARD WITH SAVED STATION AND IRRIGATION PROGRAM INFORMATION
- PRODUCT MANUALS
  - IN ADDITION TO IRRIGATION AS-BUILT REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE IN THE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM GRAPHICALLY DEPICTING LOCATION OF TWO-WIRE PATH(S), GROUNDING LOCATION AND TYPE, DECODERS, NON-DECODER WIRE SPLICES, INDICATION OF TWO-WIRE SPLICE TYPES (1-WAY, 2-WAY, 3-WAY, ETC), AND TERMINATION OF TWO-WIRE PATHS
  - ICD-HP HANDHELD PROGRAMMER AND DIAGNOSTIC TOOL
  - ROAM XL HANDHELD REMOTE AND RECEIVER

MANUFACTURER TRAINING

PRIOR TO INSTALLATION THE CONTRACTOR SHALL HAVE COMPLETED AND RECEIVED CERTIFICATION FOR THE FOLLOWING TRAINING MODULES PROVIDED BY HUNTER INDUSTRIES:
DECODER SPECIALIST PROGRAM

- MULTIMETER BASICS COURSE
- EXPERT PROGRAM
- PRE-CONSTRUCTION MEETING

PRIOR TO INSTALLATION OF TWO-WIRE IRRIGATION SYSTEM, A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED WITH PROJECT OWNER'S REPRESENTATIVE AND INSTALLING CONTRACTOR

LEAD DESIGN
LANDSCAPE ARCHITECT:

swa/Balsley

31 West 27th Street
New York, NY
10001-6914
United States
www.swabalsley.com
+1.212.684.9230 o

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No.	REVISIONS	DATE	BY

SCALE: N.T.S.
DESIGNED BY: TFP
DRAWN BY: TFP
CHECKED BY: MO/MW

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS · PLANNERS · SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

HUNTER TWO-WIRE NOTES

SEAL:
REGISTERED LANDSCAPE ARCHITECT
SCOTT WADE PEAVLER
LA 6666976
STATE OF FLORIDA
Scott W. Peavler
Florida R.L.A. No. 6666976
July 18, 2024

DATE: 07/19/2024

DRAWING NO. IR-12

PROJECT NO. 99-0039-002-01

IRRIGATION NOTES AND SPECIFICATIONS

Irrigation design based on the Craven Thompson & Associates Landscape Plan dated 04/08/2024. Contractor shall refer to these plans to coordinate sprinkler and pipe locations.

The system has been designed to conform with the requirements of all applicable codes, laws, ordinances, rules, regulations and conventions. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to ensure the entire system is installed as designed. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association and a CERTIFIED TWO-WIRE IRRIGATION SYSTEM INSTALLER by Hunter Industries. The certifications shall be current and in good standing.

THE WORK

The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that complies with the irrigation plans, specifications, notes, and details. This work shall include, but not be limited to, the providing of all required material if applicable (pump(s), backflow(s), pipes, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compacting, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain/freeze shut off device. The rain sensor shall be installed to prevent activation by adjacent heads and in a visually un-obtrusive location approved by owner. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item.

These plans have been designed to satisfy/exceed the Florida Building Code (FBC) Appendix F and the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition. All products should be installed per manufacturer's recommendation. Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation contractor shall repair or replace all items damaged by their work. Irrigation contractor shall coordinate their work with other contractors for the location and installation of pipe sleeves and laterals through walls, under roadways and paving, etc.

The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.

POINT OF CONNECTION (P.O.C.)

The Ground Level P.O.C. is a new well and submersible pump (with chemical injection system). The P.O.C. must be capable of delivering a minimum of 75 GPM at 60 PSI downstream of the pump discharge. NOTE: The Ground Level P.O.C. may change in the future to a reclaim water source. Due to this possibility all irrigation equipment is to be installed with 'purple' components as required for the use of reclaim water, typ.

The Roof Level P.O.C. is a 1-1/2" backflow-protected stubout from building water supply. The P.O.C. must be capable of delivering a minimum of 50 GPM at 50 PSI downstream of the stubout connection point.

Contractor to verify these minimum conditions can be met prior to ordering of materials and the beginning of installation. If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PIPE

Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a minimum of 18" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project's property boundary.

All pipes are to be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, walks, and patios, the pipes must be sleeved using Class 200 PVC with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2". No sleeve shall have turns or fittings that prevent a pipe from being manually pushed/pulled through after it is installed.

Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.

Mainline shall be DR11 4710 IPS H.D.P.E. with fusion-weld fittings, with a parallel run of 1-1/2" gray SCH 40 electrical conduit with SCH 40 PVC solvent-weld fittings installed with mainline for two-wire path (install junction/pull boxes for two-wire path per plan details and manufacturer guidelines).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc.., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer: The PVC cement shall be Weld-On 711 (grey, slow-drying, heavy duty) and the primer shall be Weld-On P70 (purple tinted, compatible with cement), or approved equals.

ELECTRICAL POWER SUPPLY

Electrical supply for irrigation pumps, controllers and sensors to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supplies for required electrical components as set forth in the irrigation plans.

All electrical work is to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for each controller shall be a dedicated 120 volt, 20 amp circuit unless otherwise specified in the plans. Power for the pump to be according to pump specifications indicated in these plans.

WIRING

Refer to Hunter ACC2 two-wire notes and details.

Install all electrical conduit for control/sensor wires with long-radii sweeps at turns in direction to facilitate pulling wire through conduits.

Label all wires in all valve boxes, junction boxes and at the controller.

SPARE WIRES

This is a two-wire system, no spare wires are required.

TWO-WIRE PATH GROUNDING

Refer to Hunter ACC2 two-wire notes and details.

CONTROLLER GROUNDING

Refer to Hunter ACC2 two-wire notes and details.

PUMP STATION CONTROL PANEL GROUNDING

Contractor to utilize 4"X96"X0.0625" copper grounding plates, 5/8"X10' copper clad grounding rods, Cadweld "One-Shot" at all connection points, #6 insulated copper wire, and earth contact material. Install these and other required components as outlined in the details. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, pump location, and test results. Each pump station shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two pump stations can share a common grounding grid.

SOIL MOISTURE SENSOR

Place all soil moisture sensor/sensor decoder wiring in 1" SCH 40 PVC conduit to two-wire path or controller. Soil moisture sensor should be placed in the middle of a spray or drip area as per manufacturer's recommendations. Controller shall use the SMS as a moisture cut off device (like a rain switch) per manufacturer directions.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations.

Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer – only in shrub beds. Never install in sport field areas.

VALVES

Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

Using an electric branding iron, brand the valve I.D. letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.

EQUIPMENT

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints.

All sprinkler equipment, not otherwise detailed or specified on these plans, shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION

Two-Wire System:
Prior to installation the contractor shall have completed and received certification provided by Hunter Industries (refer to Hunter ACC2 two-wire notes).

Solvent Weld Pipe: Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

BACKFILL

The Backfill 6" below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter. In all planting beds backfill all trenches to 85% Proctor and all trenches under hardscapes to be backfilled and compacted to 95% Proctor.

Mainline pipe depth measured to the top of pipe shall be:

- 24" minimum for 3/4"-2 1/2" PVC with a 30" minimum at vehicular crossings;
- 30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings.
- 36" minimum for 6" PVC with a 36" minimum at vehicular crossings.

Lateral line depths measured to top of pipe shall be:

- 18" minimum for 3/4"-3" PVC with a 30" minimum at vehicular crossings.
- 24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING

Prior to the placement of valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Prior to the placement of heads, flush all lateral lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving.

TESTING

Soil: At a minimum of 2 locations on the site, soil tests for infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at:
https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/health/assessment/?cid=nrcs142p2_053873
The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.

Schedule testing with Owner's Representative a minimum of three (3) days in advance of testing.

Contractor to utilize soil test data to inform the irrigation scheduling at the project, using BMP's issued by the Irrigation Association which can be download on line at:
https://irrigation.org/IA/Advocacy/Standards-Best-Practices/Landscape-Irrigation-BMPs/IA/Advocacy/Landscape-Irrigation-BMPs.aspx?hkey=93b546ad-c87a-41b8-bf70-8c4fd2cff931 (link at bottom of the webpage).

Read pages 47-52 in Appendix C for how to create irrigation schedules.

Mainline: For HDPE pipe, see HDPE notes.

If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

Lateral Lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.

Operational Testing –Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner and/or owner's representative, that proper coverage is obtained and the system works automatically from the controller. This demonstration requires each zone to be turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner and/or owner's representative.

Upon completion of the operational test, run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In fine sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.

SUBMITTALS

Pre-Construction:

Prior to installation of two-wire irrigation system, a pre-construction meeting shall be conducted with the project owner's representative, installing contractor, and irrigation two-wire manufacturer at no additional cost from manufacturer.

Provide owner and/or owner's representative a PDF package of equipment cut sheet submittals within ten (10) working days from date of Notice to Proceed. PDF shall have a table of contents and index sheet. Index sections for different components and label with specification section number and name of component. Furnish submittals for all components on material list. Indicate or highlight which items are being supplied on catalog cut sheets when multiple items are shown on one sheet. Incomplete submittals will be returned without review.

After project completion:
As a condition of final acceptance, the irrigation contractor shall provide the owner with:

1. Irrigations As-Builts: shall be provided utilizing a triangulated measurement method to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections, including backflow (if applicable). The completed as-built shall be delivered digitally to the owner as a PDF file.
2. Controller charts – Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve using a different color for each zone. This chart shall be reduced to a size that will fit inside of the controller door. The chart shall be laminated.
3. Grounding Certification – Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indicating location tested (using IR plan symbols), date, time, test method, and testing results.
4. Turnover Items as specified in Hunter ACC2 two-wire notes.

INSPECTIONS AND COORDINATION MEETINGS REQUIRED – Contractor is required to schedule, perform, and attend the following, and demonstrate to the owner and/or owner's representative to their satisfaction, as follows:

1. Pre-construction meeting – Designer and contractor to review entire install process and schedule with owner/general contractor.
2. Mainline installation inspection(s) – All mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method.
3. Mainline pressure test – All mainline shall be pressure tested according to design requirements.
4. Flow meter calibration – All flow meters must be calibrated. A certified calibration report shall be provided for all flow meters.
5. Backflow assembly testing (if applicable) – All newly installed backflow assemblies must be tested. The test results shall be provided (in writing) to the owner and/or owner's representative verifying that State of Florida requirements have been met.
6. USDA soil quality tests for infiltration/texture
7. Coverage and operational test
8. Punch list inspection
9. Final inspection

FINAL ACCEPTANCE

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

1. All above inspections are completed, documented, and approved by owner.
2. Completion and acceptance of 'as-built' drawings.
3. Acceptance of required controller charts and placement inside of controllers.
4. All other submittals have be made to the satisfaction of the owner.

GUARANTEE

The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1. Every irrigation zone should be checked monthly and have written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks:
   - A. Turn on each zone from the controller to verify automatic operation.
   - B. Check schedules to ensure they are appropriate for the season, plant type, soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements.
   - C. Check remote control valves to ensure proper operation.
   - D. Check setting on pressure regulators to verify proper setting, if present.
   - E. Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller.
   - F. Check for leaks – mainline, lateral lines, valves, heads, etc.
   - G. Check all heads as follows:
     a. Set proper height (top of sprinkler is 1" below mow height).
     b. Verify head pop-up height: 6" in turf, 12" in ground cover, and pop-up on riser in shrub beds.
     c. Check wiper seal for leaks. If leaking, clean head and re-inspect. Replace head with an identical head if leaking cannot be stopped.
     e. Check all nozzles for proper pattern, clogging, leaks, make/model, etc. Replace as needed.
     f. Check for proper alignment (perfectly vertical), proper coverage area, and minimal overspray onto hardscapes.
     g. Ensure riser height is raised or lowered to accommodate plant growth patterns thereby providing proper coverage.
     h. Verify the pop-up riser retracts after operation. Repair or replace as needed.
2. Check controller/decoder grounds for resistance (10 ohms or less) once per year. Submit written reports to owner and/or owner's representative.
3. Check rain shut off device monthly to ensure proper function.
4. Inspect all filters monthly. Clean, repair, or replace as needed.
5. Inspect backflow assembly by utilizing a licensed backflow inspector. Inspections should be done annually, at minimum.
6. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked.
7. Exercise all gate valves per manufacturer guidelines and recommendations to prevent valves from seizing.
8. Check pump stations for proper operation, pressures, filtration, settings, etc. Refer to pump station operation manual as needed.
9. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed.
10. Winterize as weather in your area dictates. Follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations.
11. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.

LEAD DESIGN LANDSCAPE ARCHITECT:
SWA/Balsley
31 West 27th Street
New York, NY
10001-6914
United States
www.swabalsley.com
+1.212.684.9230 o

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No.	REVISIONS	DATE	BY

SCALE: N.T.S.
DESIGNED BY: TFP
DRAWN BY: TFP
CHECKED BY: MO/MW

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

IRRIGATION NOTES

SEAL: REGISTERED LANDSCAPE ARCHITECT – SCOTT W. PEAVLER – LA 6666976 – STATE OF FLORIDA – Scott W. Peavler, Florida R.L.A. No. 6666976, July 19, 2024

DATE: 07/19/2024
DRAWING NO. IR-13
PROJECT NO. 99-0039-002-01

NOTE:

1. SHEETS HP-1 THROUGH HP-5 HAVE BEEN EXCLUDED FROM THIS SET AS THERE IS NO PROPOSED HARDSCAPE, AMENITIES, OR FURNITURE PROPOSED ON THESE SHEETS DUE TO THE CONSERVATION EASEMENT AND WETLANDS.

0 50' 100' 200'

SCALE: 1"=100'-0"

LEAD DESIGN
LANDSCAPE ARCHITECT:

SWA/Balsley

31 West 27th Street
New York, NY
10001-6914
United States
www.swabalsley.com
+1.212.684.9230 o

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No.	REVISIONS	DATE	BY

SCALE: 1" = 100'-0"
DESIGNED BY: SWP
DRAWN BY: SWP
CHECKED BY: JDH

CRAVEN THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

BAPTIST HEALTH SUNRISE HOSPITAL
12401 WEST OAKLAND PARK BOULEVARD
SUNRISE, FLORIDA

HARDSCAPE & FURNITURE PLAN KEY MAP

SEAL: REGISTERED LANDSCAPE ARCHITECT. SCOTT WADE PRAVLIK LA 6666976 STATE OF FLORIDA
Scott W. Pravlik
Florida R.L.A. No. 6666976
July 19, 2024

DATE: 07/19/2024

PROJECT NO.: 99-0039-002-01

DRAWING NO.: HP-0