

SPACEBOX SELF STORAGE

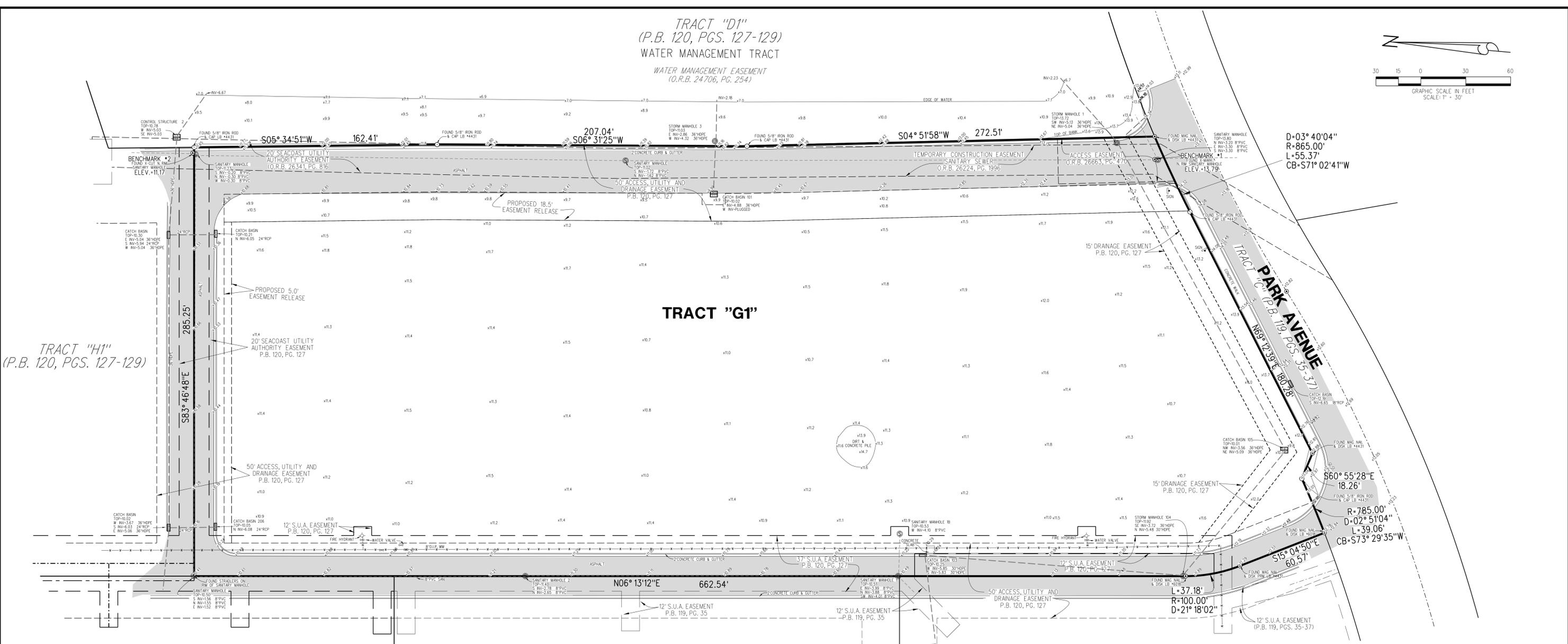
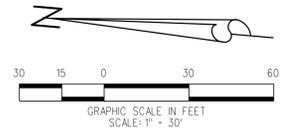
Tract G1 of Congress Business Park

PLAN INDEX

-	Cover Sheet	Sheet CS1 of 1
-	Survey	Sheet 1 of 1
-	Phase I Site Plan	Sheet SP1 of 1
-	Phase I Color Site Plans (x2)	Sheet
-	Phase I Architectural Plan (Elevations/Floor Plan)	Sheets A101 - A103 & A201
-	Phase I Architectural Color Elevation/Materials Board	Sheet A202
-	Phase I Architectural Perspectives	Sheet A203
-	Phase I Landscape Plan & Landscape Details	Sheets LP1 -LP2 & LP4
-	Phase I Irrigation Plan & Irrigation Details	Sheets IR1 - IR4
-	Phase I Preliminary Civil Engineering Plans	Sheets C1 - C10
-	Phase I Site Photometric Plan & Details	Sheets PHM1 - PHM2
-	Phase I Site Electrical Plans	Sheets E0 - E1
-	Phase I Master Sign Plan	Sheet MSP 1 of 1
-	Phase I Autoturn Analysis (by Civil Engineer)	Sheet ATA 1
-	Phase II Site Plan	Sheet SP1 of 1
-	Phase II Color Site Plans (x2)	Sheets
-	Phase II Architectural Plan (Elevations/Floor Plans)	Sheets A101.2 - A103.2 & A201.2
-	Phase II Architectural Color Elevations/Material Boards	Sheet A202.2
-	Phase II Architectural Perspective	Sheet A203.2
-	Phase II Landscape Plan & Landscape Details	Sheet LP3
-	Phase II Irrigation Plan & Irrigation Details	Sheets IR1 - IR3
-	Phase II Preliminary Civil Engineering Plan	Sheets CP
-	Phase II Site Photometric Plan & Details	Sheets PHM1 - PHM2
-	Phase II Site Electrical Plans	Sheets E0 - E1
-	Phase II Autoturn Analysis (by Civil Engineer)	Sheet ATA 2

COVER SHEET

TRACT "D1"
(P.B. 120, PGS. 127-129)
WATER MANAGEMENT TRACT
WATER MANAGEMENT EASEMENT
(O.R.B. 24706, PG. 254)



TRACT "H1"
(P.B. 120, PGS. 127-129)

TRACT "A2"
(P.B. 120, PGS. 127-129)

TRACT "F"
(P.B. 119, PGS. 35-37)

TRACT "B"
(P.B. 119, PGS. 35-37)

SURVEY REPORT

- THIS IS A BOUNDARY AND TOPOGRAPHIC SURVEY AS DEFINED IN CHAPTER 5J-17.050, FLORIDA ADMINISTRATIVE CODE.
- SURVEY BASED ON THE PLAT OF CONGRESS BUSINESS PARK-PLAT NO. 2, A P.U.D.
- LEGAL DESCRIPTION WAS FURNISHED BY CLIENT.
- BEARING BASIS: S01° 21' 11" W ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 19/42/43.
- THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE AB, ELEV. 13 .PER FLOOD INSURANCE RATE MAP NO. 120192 0130B DATED OCTOBER 15, 1982.
- TOTAL AREA = 203,226 SQUARE FEET OR 4.665 ACRES, MORE OR LESS.
- EASEMENTS OR RESTRICTIONS SHOWN WERE FURNISHED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY FILE NUMBER: N00462 EFFECTIVE DATE FEBRUARY 8, 2016 AT 8:00 A.M.
- THIS SURVEY FALLS WITHIN THE COMMERCIAL-HIGH RISK CATEGORY AS CLASSIFIED IN CHAPTER 5J-17.051, FLORIDA ADMINISTRATIVE CODE. ALL FIELD-MEASURED CONTROL MEASUREMENTS EXCEEDED THE ACCURACY REQUIREMENTS FOR THIS CLASSIFICATION. ALL MAPPED FEATURES WERE LOCATED BY THIS OFFICE.
- ELEVATIONS SHOWN ARE BASED ON N.G.V.D. OF 1929
PRIMARY BENCHMARK USED FOR THIS SURVEY IS JOYCE PBC BM AT ELEVATION 10.804' NGVD.
- THIS SURVEY IS PREPARED ONLY FOR THE PARTIES LISTED BELOW AND IS NOT ASSIGNABLE.
PREPARED FOR:
SPACEBOX LAKE PARK, LLC
CONGRESS AVENUE PROPERTIES, LLC, A FLORIDA LIMITED LIABILITY COMPANY
FIDELITY NATIONAL TITLE INSURANCE COMPANY
SETCOSERVICES, LLC-PENSACOLA
- COPYRIGHT 2016 BY LIDBERG LAND SURVEYING, INC.
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1-5.6(a), 6(b), 7(a), 8, 10, 11(b), 14, 16, 17, 19 AND 22 OF TABLE A THEREOF.
THE FIELD WORK WAS COMPLETED ON MARCH 16, 2016
THE SKETCH OF SURVEY AND SURVEY REPORT COMPRISE THE COMPLETE SURVEY.
THIS SURVEY IS NOT VALID UNLESS THE SKETCH AND REPORT ACCOMPANY EACH OTHER.
REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER EMPLOYED BY LIDBERG LAND SURVEYING, INC.

AFFECTS PROPERTY AS SHOWN
AFFECTS PROPERTY, NOT PLOTTABLE
DIGS NOT AFFECT PROPERTY

FIDELITY NATIONAL TITLE INSURANCE COMPANY
FILE #N00462

●	EX. 6) PLAT BOOK 119, PAGE 35
●	EX. 7) PLAT BOOK 120, PAGE 127
●	EX. 8) DEED BOOK 666, PG. 101; O.R.B. 4452, PG. 1615; O.R.B. 22800, PG. 1209
●	EX. 9) O.R.B. 12416, PG. 156
●	EX. 10) O.R.B. 13749, PG. 328; O.R.B. 23126, PG. 1954
●	EX. 11) O.R.B. 15060, PG. 414
●	EX. 12) O.R.B. 16749, PG. 4
●	EX. 13) O.R.B. 21078, PG. 309
●	EX. 14) O.R.B. 22783, PG. 1755
●	EX. 15) O.R.B. 22783, PG. 1758
●	EX. 16) O.R.B. 22810, PGS. 612 & 616
●	EX. 17) O.R.B. 22953, PG. 1631; O.R.B. 26779, PG. 403
●	EX. 18) O.R.B. 24706, PG. 254
●	EX. 19) O.R.B. 26224, PG. 1996
●	EX. 20) O.R.B. 26341, PG. 816
●	EX. 21) O.R.B. 26663, PG. 470
●	EX. 22) O.R.B. 27302, PG. 418; O.R.B. 27419, PG. 256
●	EX. 23) O.R.B. 27354, PG. 664

PROPERTY DESCRIPTION

TRACT "G1", CONGRESS BUSINESS PARK - PLAT NO. 2, A P.U.D., ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 120, PAGES 127 THROUGH 129, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

ABBREVIATIONS:

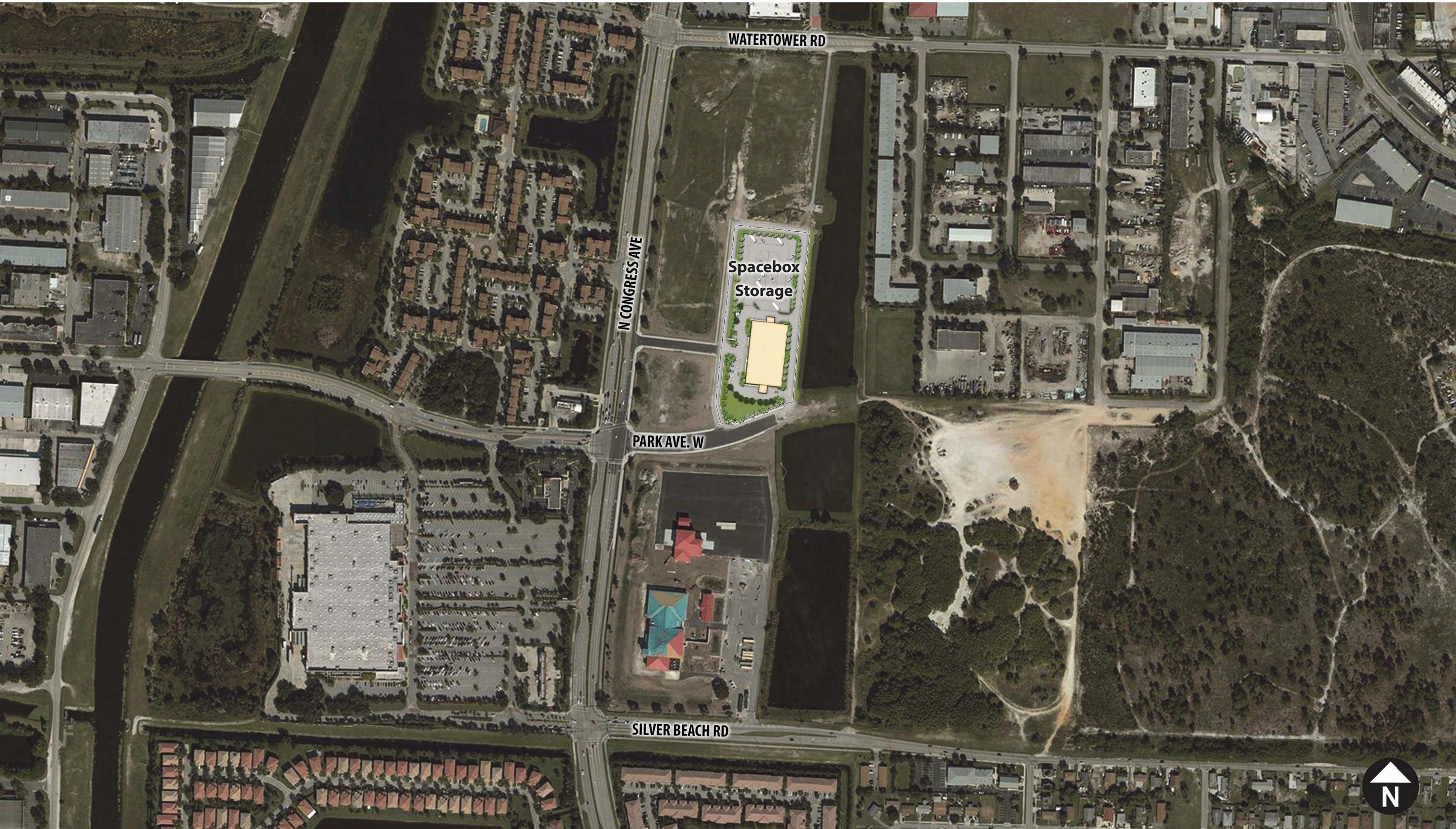
CCI	- CALCULATED
CBS	- CONCRETE BLOCK STRUCTURE
CMB	- COMMISSIONER'S MINUTES BOOK
CMH	- CONCRETE MANHOLE
CONC.	- CONCRETE
CR	- CATCH BASIN
F.I.C.	- FIDELITY BOOK
F.H.	- FIRE HYDRANT
F.N.	- FOUND
F.P.L.	- FLORIDA POWER & LIGHT
HDP	- HIGH DENSITY POLYETHYLENE PIPE
IP	- IRON PIPE
IR	- IRON ROD
LB	- LICENSE BUSINESS
LP	- LICENSE BUSINESS
LS	- LICENSE SURVEY
M	- MEASURED
M.H.	- METER HIGH WATER
MON.	- MONUMENT
N.G.V.D.	- NATIONAL GEODESIC VERTICAL DATUM
O.R.B.	- OFFICIAL RECORD BOOK
PI	- PLAT
P.B.	- PLAT BOOK
P.C.	- PERMANENT CHORD
P.R.M.	- PERMANENT REFERENCE MONUMENT
R.O.W.	- RIGHT OF WAY
R.F.C.	- REINFORCED CONCRETE PIPE
R.P.B.	- ROAD PLAT BOOK
S	- SURVEY
S.P.	- STOP LIGHT POLE
S.M.	- SANITARY MANHOLE
S.T.M.	- SOUTHERN BELL TELEPHONE MANHOLE
S.U.A.	- SEACOAST UTILITY AUTHORITY
T.P.	- TRAFFIC LIGHT POLE
T.V.	- TELEVISION
U.E.	- UTILITY EASEMENT
W.P.	- WOOD POLE
W.U.	- WOOD UTILITY POLE
W.V.	- WATER VALVE

DATE:	06/14/16	ADD PROPOSED EASEMENT RELEASES	99-240J-303	L.J.C.
	06/10/16	ADDRESS COMMENTS	99-240J-410	L.J.C.
	04/05/16	REVISE WIDTH OF WEST ROAD		L.J.C.
	03/15/16	UPDATE SURVEY	99-240J-104 NOTES FILED K.F.	L.J.C.
DATE:		REVISIONS:		BY:

LIDBERG LAND SURVEYING, INC.
675 West Indiantown Road, Suite 200,
Jupiter, Florida 33458 TEL. 561-746-8454

BOUNDARY & TOPOGRAPHIC SURVEY
TRACT "G1"-CONGRESS BUSINESS PARK
PREPARED FOR:
SPACEBOX LAKE PARK, LLC

CAD:	K\JUST \194243 \ 120-127 \ 99-240J-101 \ 99-240J-101.DGN						
REF:							
F.L.D.:	J.P.	F.B.:	PG.	JOB:	99-240J-101		
OFF.:	L.J.C.		687	65-66	DATE	10/22/15	
CKD:	D.C.L.	SHEET	1	OF	1	DWG.	D99-2405



SPACEBOX LAKE PARK, LLC - PHASE I
Lake Park, Florida

iPLAN
& DESIGN

5090 PGA Blvd., Suite 212
Palm Beach Gardens, FL33418
561.797.4217
bcheguis@gmail.com



SPACEBOX LAKE PARK, LLC - PHASE I
Lake Park, Florida

iPLAN
& DESIGN

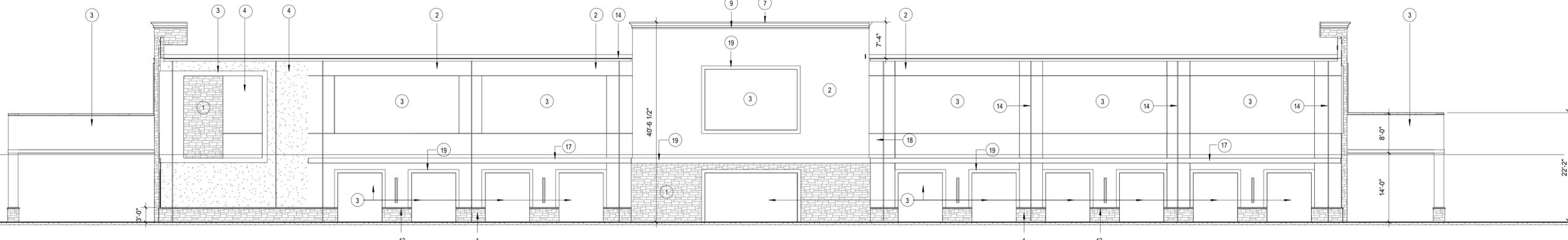
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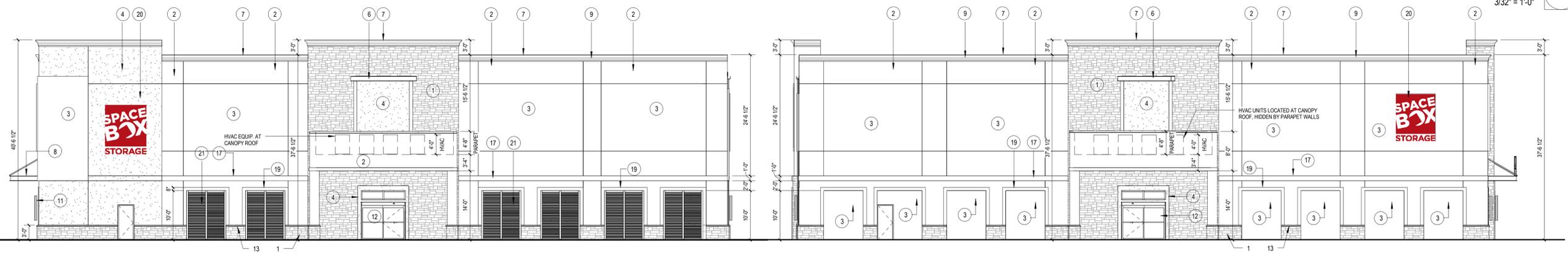
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

MATERIAL LEGEND			MATERIAL LEGEND		
MATERIAL / MANUF.	COLOR	NOTES	MATERIAL / MANUF.	COLOR	NOTES
1 EL DORADO STONE	SANIBEL	STYLE :COASTAL REEF	20 BUILDING SIGN	BY SIGN VENDOR	10'X10'
2 STUCCO WALL FINISH	DRYVIT-MANOR WHITE	SAND FINISH	21 ALUM. SHUTTER	DARK BRONZE	
3 STUCCO WALL FINISH	DRYVIT-CHIFFON	SAND FINISH			
4 STUCCO WALL FINISH	DRYVIT-RUSSET	SAND FINISH			
5 NOT USED					
6 STEEL CHANNEL LINTEL	DARK BRONZE				
7 MTL COPING	DARK BRONZE				
8 ALUMINUM AWNING	DARK BRONZE				
9 EIFS CORNICE	DRYVIT-CHAMOIS	SAND FINISH			
10 ALUMINUM STOREFRONT	DARK BRONZE				
11 WALL SCONCE LIGHT	TBD				
12 ALUM. ENTRANCE-STANLEY	DARK BRONZE				
13 CAST STONE CAP	TAN	SMOOTH FINISH			
14 ALUM. GUTTER & DOWNSPOUT	DARK BONZE				
15 SPACEBOX SIGN	BY SIGN VENDOR	48" X48"			
16 BACKLIT SIGN	BY SIGN VENDOR	48" HIGH LETTERING			
17 12" HIGH EIFS BAND	DRYVIT-CHAMOIS	SAND FINISH			
18 STUCCO REVEAL					
19 EIFS TRIM	DRYVIT-CHAMOIS	SAND FINISH			

ELEVATION KEYNOTE
3/32" = 1'-0"

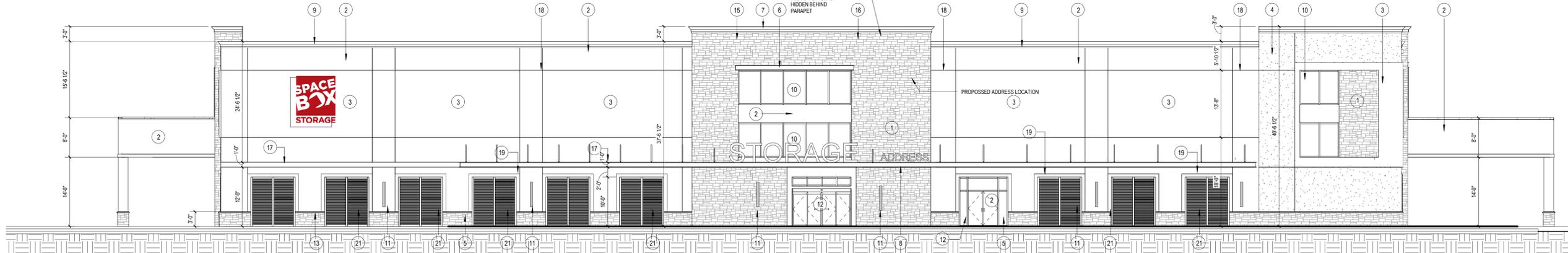


EAST ELEVATION
3/32" = 1'-0" 4



SOUTH ELEVATION
3/32" = 1'-0" 3

NORTH ELEVATION
3/32" = 1'-0" 2



WEST ELEVATION
3/32" = 1'-0" 1

STACKABLE + SQUIERS
interiors
planning
architecture

820 N COUNTY HWY. 393
SANTA ROSA BEACH, FL.
32459
p. 850.502.4727
f. 813.464.2329

www.ss-designgroup.com

FLORIDA STATE LICENSE
AA26001981

PRINTED

DATE	REMARKS

Revision Schedule

Rev#	Description	Date

LAKE PARK SPACEBOX
LAKE PARK, FLORIDA
EXTERIOR ELEVATIONS

DATE: 10/28/13
PROJECT NO. A201

NOT FOR CONSTRUCTION

20' X 20' SIGHT TRIANGLE, TYP.

8' LANDSCAPE BUFFER

258.25
45.7' DRAINAGE EASEMENT
PB 120, PG 127

8' LANDSCAPE BUFFER W/ 5' OVERLAP

OUTDOOR STORAGE
67,142 SF

30' L.F. ROOT BARRIER, TYP.
15' L.F. ROOT BARRIER, TYP.

RV & BOAT PARKING
LIGHTS, TYP.

8' LANDSCAPE BUFFER
PRIVACY/SECURITY FENCE

20' X 20' SIGHT TRIANGLE, TYP.

LANDSCAPE CERTIFICATION NOTE:
A CERTIFICATE OF OCCUPANCY SHALL NOT BE ISSUED BY THE COMMUNITY DEVELOPMENT DEPARTMENT IF THE INSTALLED LANDSCAPING DOES NOT COMPLY WITH THE APPROVED LANDSCAPE PLAN OF RECORD WITH THE TOWN. A CERTIFIED OR SIGNED LANDSCAPE PLAN BY THE LANDSCAPE ARCHITECT OF RECORD VERIFYING THAT THE INSTALLATION COMPLIES WITH THE APPROVED PLAN IS REQUIRED. THE VERIFICATION INCLUDES THE SPECIES, QUALITY, TYPE, AND ANY OTHER ORIGINAL PLANTING SPECIFICATIONS, DESIGN OR LOCATION, IRRIGATION, AND ALL OTHER LANDSCAPE STRUCTURES AND MATERIAL USED IN ACCORDANCE WITH THE SITE PLAN.

PERIMETER LANDSCAPE REQUIREMENTS:

BUFFER	TOTAL LENGTH	REQD. TREES	PROVIDED TREES
NORTH BUFFER	258.25'	9 (1 TREE/30 L.F.)	9
SOUTH BUFFER	292.76'	10 (1 TREE/30 L.F.)	10
EAST BUFFER	641.98'	22 (1 TREE/30 L.F.)	22
WEST BUFFER	760.29'	26 (1 TREE/30 L.F.)	26
TOTALS		67	67

PHASE 1 PLANT LIST

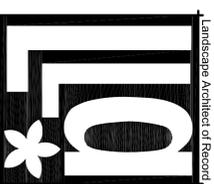
PLANT	SMI. QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	SPR.	NOTES
SP	61	SABAL PALMETTO	CABBAGE PALM	16-24' C.T.	N/A	SICK TRUNK, HURRICANE CUT, STAGGER HTS.
IC	11	ILEX CASPENSIS	DIPOON HOLLY	12' O.A.	5'	FULL & THICK, SINGLE TRUNK, 2.5" CAL.
CE	34	CONOCARPUS ERECTUS	GREEN BUTTWOOD	10' G.W.	N/A	FULL & THICK, MATCHED
RE	5	ROYSTONIA ELATA	FL. ROYAL PALM	12-14' O.A.	5'	FULL & THICK, MATCHED
QV	10	QUERUS VIRGINIANA	LIVE OAK			
SMI. QTY.		BOTANICAL NAME	COMMON NAME	HEIGHT	SPR. <td>NOTES</td>	NOTES
TO	386	LEPISODON DORA	DWF. MAIDENHAIR	#3, 18" O.A.	30" O.A.	FULL & THICK
TD	386	TRIPLODENDON DORA	DWF. MAIDENHAIR	#3, 18" O.A.	30" O.A.	FULL & THICK
TO	386	LEPISODON DORA	DWF. MAIDENHAIR	#3, 18" O.A.	30" O.A.	FULL & THICK
TD	386	TRIPLODENDON DORA	DWF. MAIDENHAIR	#3, 18" O.A.	30" O.A.	FULL & THICK
IC	450	CHRYSOBALANUS ICACO	HORIZONTAL	#3, 14" X 14" SPD.	30" O.C.	FULL & THICK
CID	180	SPARTINA BAKERI	SAND CORGRASS	#3, 20" O.A.	30" O.A.	FULL & THICK
SBA	170	MYRTANTHES FRAGRANS	SIMPSON STOPPER	30" O.A.	30" O.A.	FULL & THICK

* ASTERISK DENOTES NATIVE PLANT MATERIAL
V INDICATES VERY DROUGHT TOLERANT PLANT MATERIAL
M INDICATES MODERATELY DROUGHT TOLERANT PLANT MATERIAL
SOD: ST. AUGUSTINE 'FLORTAM'
MULCH: 3" SHREDED MELALEUCA MULCH (OR APPROVED RECYCLED MULCH) TO BE APPLIED TO ALL PLANTING BEDS.
IRRIGATION NOTE: ALL NEW LANDSCAPE AREAS SHALL BE RECEIVE 100% OVERLAP COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM EQUIPPED WITH A RAIN SENSOR.
IRRIGATION WATER SOURCE: ON-SITE LAKE

LANDSCAPE DATA

TOTAL SITE AREA: 4.686 ACRES (203,207.40 S.F.)
TOTAL LANDSCAPE AREA (OPEN SPACE): 0.822 ACRES (35,444.91 S.F.)
MAX. AMOUNT OF SOD ALLOWED: 15,753 S.F. (40% OF LANDSCAPE AREA)
AMOUNT OF SOD PROVIDED: 15,500 S.F. (39.4% OF LANDSCAPE AREA)
PERCENTAGE OF PREFERRED TREES & PALMS REQUIRED: 75%
PERCENTAGE OF PREFERRED SHRUBS & GROUNDCOVERS REQUIRED: 100%
PERCENTAGE OF PREFERRED SHRUBS & GROUNDCOVERS PROVIDED: 100%

20' X 20' SIGHT TRIANGLE, TYP.
MATCHLINE
(SEE SHEET LP-1)



Litterick Landscape Architecture
2740 SW Martin Bowers Blvd, #119
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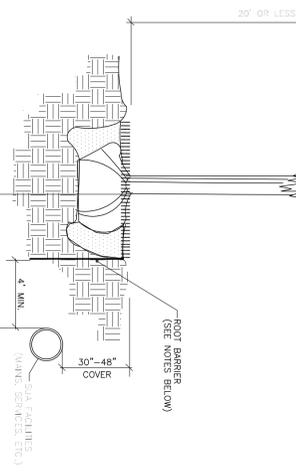
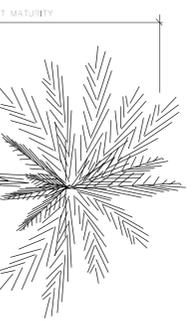
Spacebox Lake Park, LLC
Lake Park, Florida

Jason M. Litterick, PLA
LMO001677

DESIGNED	JML
DRAWN	JML
APPROVED	JML
JOB NUMBER	4-11-16
DATE	6-12-16
REVISIONS	7/28/16

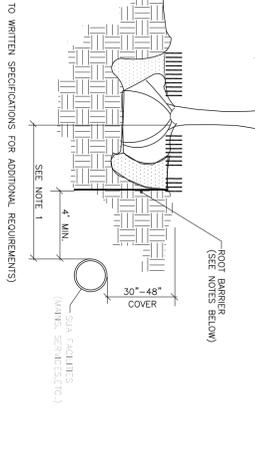
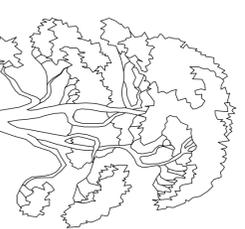


PLANTING SPECIFICATIONS



- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. THIS DISTANCE SHALL BE 7' MINIMUM WITH ROOT BARRIER AND 10' MINIMUM IF NO ROOT BARRIER IS USED.
 2. ALL ROOT BARRIERS SHALL BE 4" MINIMUM FROM ALL SEASONAL FACILITIES.
 3. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH SEASONAL AND INSPECTED BY SEASONAL PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
 4. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP, APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
 5. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

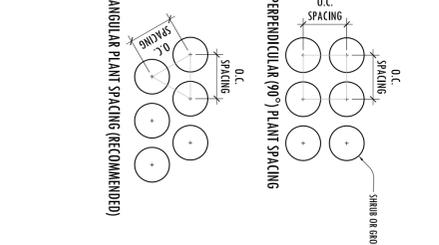
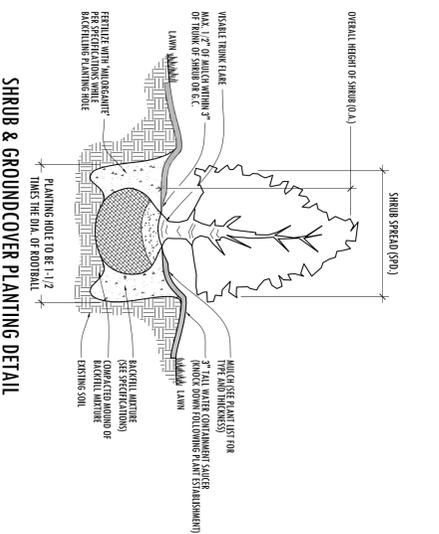
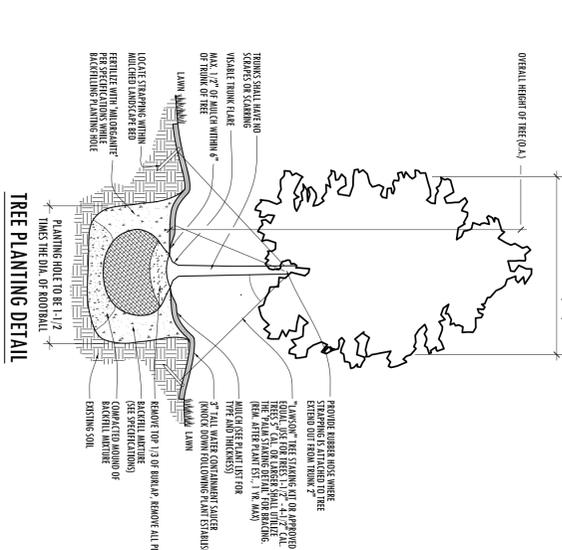
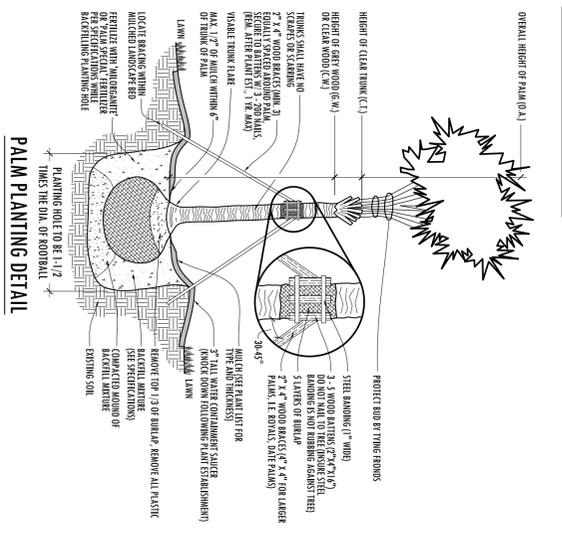
Typical Small Tree or Palm Tree with Root Barrier
June 24, 2015 (Rev. A-15)



- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. THIS DISTANCE SHALL BE 10' MINIMUM WITH ROOT BARRIER AND 15' MINIMUM IF NO ROOT BARRIER IS USED.
 2. ALL ROOT BARRIERS SHALL BE 4" MINIMUM FROM ALL SEASONAL FACILITIES.
 3. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH SEASONAL AND INSPECTED BY SEASONAL PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
 4. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP, APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
 5. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
 6. LARGE PALM TREES INCLUDE ROYAL, WASHINGTONIAN, BIRSKAP AND SIMILAR SIZED SPECIES.

Typical Canopy Tree, Large or Exotic Palm Tree with Root Barrier
June 24, 2015 (Rev. A-15)

PLANTING DETAILS



1. SCORE OF WORK
LANDSCAPE CONTRACT WORK INCLUDES, BUT IS NOT LIMITED TO, SOIL PREPARATION, LIME OR PHOSPHORUS ADDING, FERTILIZING AND INSTALLING PLANT MATERIAL, WATERING, STAKING, GUNNING AND MULCHING.

ALL LABOR AND MATERIAL FOR SOIL AMENDMENTS AND FERTILIZER THAT IS REQUIRED TO INSURE THE SUCCESSFUL ESTABLISHMENT AND SURVIVAL OF THE PROPOSED VEGETATION, AS WELL AS ALL THE COST FOR THE REMOVAL OF UNSUITABLE OR EXISTING PLANT MATERIAL, SHALL BE INCLUDED IN THE CONTRACTOR'S BID OR BEHOLD THE OWNER'S RESPONSIBILITY FOR SUCH PLAN SET.

2. QUALITY ASSURANCE
LANDSCAPE CONTRACTOR MUST BE REGULARLY ENGAGED IN THE INSTALLATION OF LIMING AND MATERIAL, LABOR CHIEFS SHALL BE CONTROLLED AND DIRECTED BY LANDSCAPE CONTRACTOR AND WELL VERSED IN LANDSCAPE INSTALLATION, PLANT MATERIALS, ROOTING PLANTS AND COMBINATION BETWEEN THE JOB AND WORKER.

THE LANDSCAPE CONTRACTOR AND IRRIGATION CONTRACTOR SHALL REVIEW LAYOUT AND SCHEDULING PRIOR TO INSTALLATION OF MATERIAL. OWNER RESERVES THE RIGHT TO INSPECT DESIGN AND MAKE REVISIONS TO THE NEEDS OF SPECIFIC PLANT MATERIAL. THE LANDSCAPE CONTRACTOR MUST BE NOTIFIED OF SUCH CHANGES.

3. MATERIALS
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULARLY ENGAGED IN THE INSTALLATION OF LIMING AND MATERIAL, LABOR CHIEFS SHALL BE CONTROLLED AND DIRECTED BY LANDSCAPE CONTRACTOR AND WELL VERSED IN LANDSCAPE INSTALLATION, PLANT MATERIALS, ROOTING PLANTS AND COMBINATION BETWEEN THE JOB AND WORKER.

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CONTAINER GROWN PLANTS SHALL, WHEN DELIVERED, SHALL HAVE SUFFICIENT GROWTH TO EXCEED EARLY INFLUX WHEN REMOVED FROM CONTAINER AND SHALL NOT BE ROOT BOUND. PLANT TIES FOR CONTAINER MATERIALS SHALL BE REMOVED LATE ON THE BOTTOM TO AVOID AVOID RECROSS IN THE BOTTOM OF ROOT BALLS AND CONTAINERS SHALL BE REMOVED IMMEDIATELY TO PREVENT DAMAGE TO THE PLANT AND ROOT SYSTEMS.

15% THE TIES WITH WATER BEFORE PLANTING TO ASSURE EMPLOYER DRAINAGE PRECAUTION IS AVAILABLE. THIS WHICH ARE FOUND NOT TO BE REQUIRED TO REMOVED IMMEDIATELY SHALL BE EXCLUDED TO A REPAIR SUFFICIENT FOR BRANDED AND BACKFILLING WITH GRAVEL OR CRUSHED ROCK. NO ALLOWANCES WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER BRANDED.

PLANTING AND PREPARATION
ALL PLANTING OPERATIONS SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY PLANTING. PLANTING AREAS, INCLUDING LAMPS SHALL BE FREE OF ALL WEEDS AND UNWANTED VEGETATION. IF IMPROPER GRASS (PASTURE GRASS) IS PRESENT OR ENCOURAGED DRAINAGE PLANTING, THE LANDSCAPE CONTRACTOR SHALL STOP ALL PLANTING UNTIL IT CAN BE DEMONSTRATED THAT IT HAS BEEN COMPLETELY REMOVED OR REDUCED. THERE SHALL BE NO EXCEPTIONS TO THIS PROVISION.

ALL LANDSCAPE RELAYS AND BEDS WILL BE FREE OF SHIELD ROCK AND CONSTRUCTION DEBRIS AND WILL BE EXCLUDED TO A GRAPE OR INCHES OR TO CLEAN WHITE SOIL AND FILLED WITH THE SPECIFIED BACKFILL MATERIAL.

PLANTING TIES
EVALUATE TIES AS PER PLANTING DETAILS. COMPACT LAYER OF TOPSOIL IN 9\"/>

Litterick Landscape Architecture
2740 SW Ninth Avenue Blvd #119
Palm City, FL 34990
561-719-3816
Jsohn@litterick.com

PLANT SPECIES AND SIZES SHALL CONFORM TO THOSE SPECIFIED ON THE DRAWINGS. UNDESIRABLE SPECIES SHALL CONFORM TO THE FOLLOWING LIST. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REGULARLY ENGAGED IN THE INSTALLATION OF LIMING AND MATERIAL, LABOR CHIEFS SHALL BE CONTROLLED AND DIRECTED BY LANDSCAPE CONTRACTOR AND WELL VERSED IN LANDSCAPE INSTALLATION, PLANT MATERIALS, ROOTING PLANTS AND COMBINATION BETWEEN THE JOB AND WORKER.

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PLANTING TIES AS PER PLANTING DETAILS. COMPACT LAYER OF TOPSOIL IN 9\"/>

iPLAN & DESIGN
5090 PGA Blvd.
Suite 212
Palm Beach Gardens, Florida 33458
561.797.4217
dohiggins@gmail.com

PLANTING DETAILS
OVERALL HEIGHT OF PALM (O.A.)
HEIGHT OF CLEAR TRUNK (C1)
HEIGHT OF GREEK WOOD (G.W.)
THINGS SHALL HAVE NO SCARS OR EXPOSURE
3\"/>

TREE PLANTING DETAIL
OVERALL HEIGHT OF TREE (O.A.)
TREE CANOPY SPREAD (GPO)
PLANTING HOLE TO BE 1 1/2 TIMES THE DIA. OF ROOTBALL
PROTECT TUB BY TIGHTENING
3\"/>

SHRUB & GROUNDCOVER PLANTING DETAIL
OVERALL HEIGHT OF SHRUB (O.A.)
SHRUB SPREAD (GPO)
PLANTING HOLE TO BE 1 1/2 TIMES THE DIA. OF ROOTBALL
MULCH 1\"/>

PERPENDICULAR (90°) PLANT SPACING
O.C. SPACING
O.C.
SPACING
SHRUB OR GROUNDCOVER

TRIANGULAR PLANT SPACING (RECOMMENDED)
O.C. SPACING
O.C.
SPACING
SHRUB OR GROUNDCOVER

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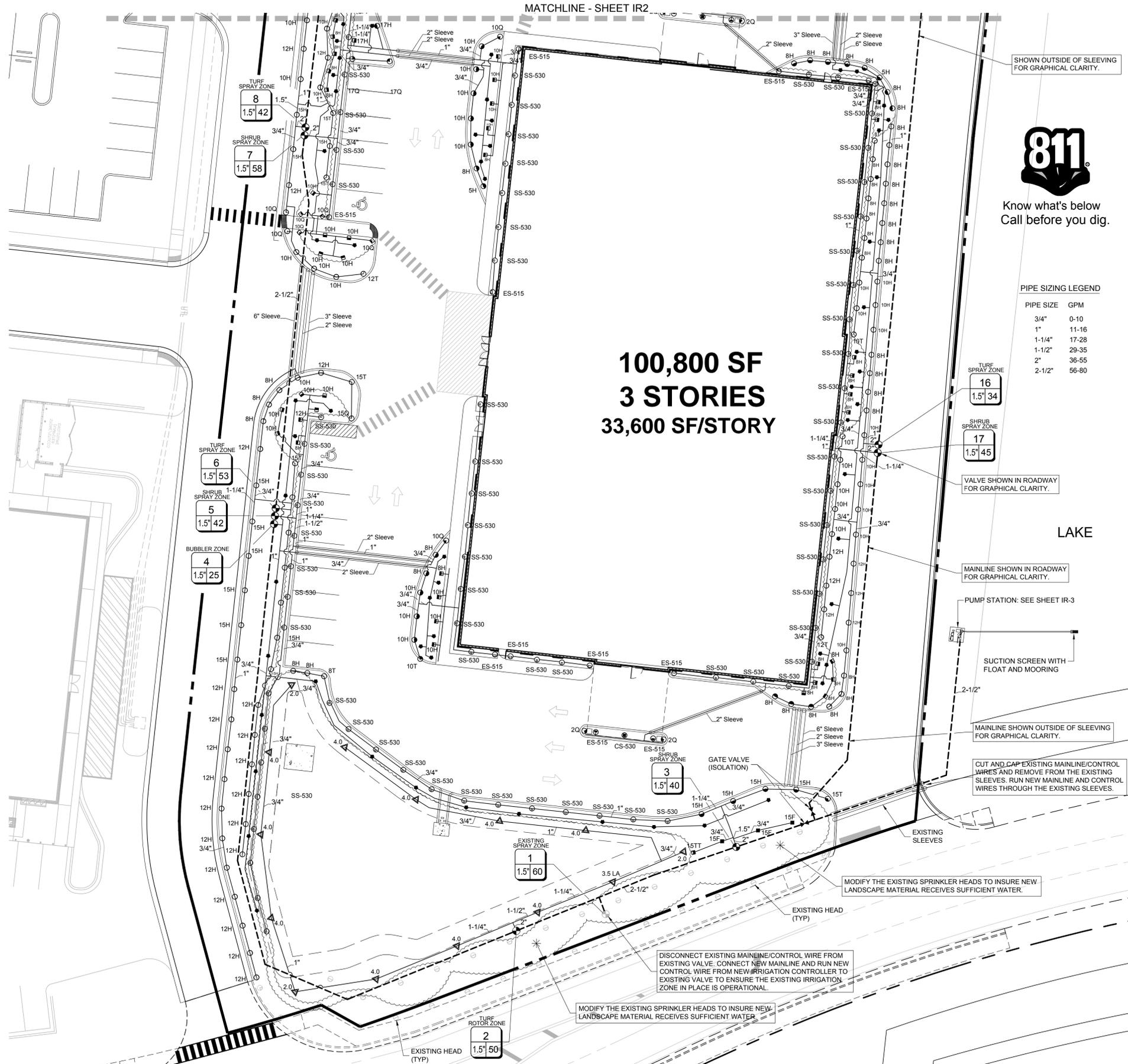
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DESIGNED	JML
DRAWN	JML
APPROVED	JML
JOB NUMBER	4-11-16
DATE	6-13-16
REVISIONS	7-28-16



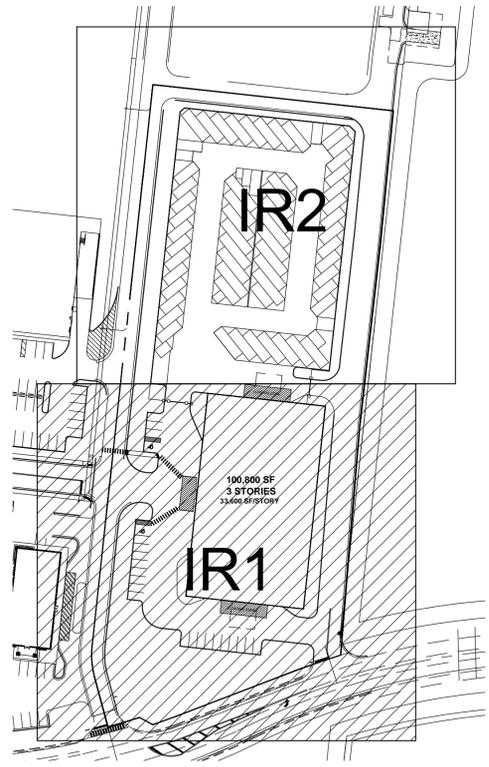
**100,800 SF
3 STORIES
33,600 SF/STORY**

SHOWN OUTSIDE OF SLEEVING FOR GRAPHICAL CLARITY.

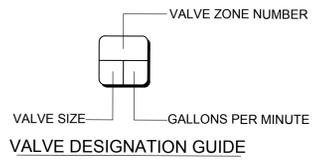


PIPE SIZING LEGEND

PIPE SIZE	GPM
3/4"	0-10
1"	11-16
1-1/4"	17-28
1-1/2"	29-35
2"	36-55
2-1/2"	56-80



AREA MAP
SCALE 1" = 100'-0"



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HUNTER PRO-SPRAY NOZZLES

17H	2.37 GPM @ 30 PSI
17Q	1.15 GPM @ 30 PSI
15F	3.75 GPM @ 30 PSI
15TQ	2.92 GPM @ 30 PSI
15TT	2.48 GPM @ 30 PSI
15H	1.86 GPM @ 30 PSI
15T	1.30 GPM @ 30 PSI
15Q	.97 GPM @ 30 PSI
12F	2.70 GPM @ 30 PSI
12TQ	2.00 GPM @ 30 PSI
12TT	1.74 GPM @ 30 PSI
12H	1.30 GPM @ 30 PSI
12T	.89 GPM @ 30 PSI
12Q	.67 GPM @ 30 PSI
10F	1.59 GPM @ 30 PSI
10H	.88 GPM @ 30 PSI
10T	.57 GPM @ 30 PSI
10Q	.42 GPM @ 30 PSI
8F	.97 GPM @ 30 PSI
8H	.47 GPM @ 30 PSI
8T	.32 GPM @ 30 PSI
8Q	.24 GPM @ 30 PSI
5F	.47 GPM @ 30 PSI
5H	.23 GPM @ 30 PSI
5Q	.12 GPM @ 30 PSI
2Q	.11 GPM @ 30 PSI
SS-530	1.30 GPM @ 30 PSI
ES-515	.85 GPM @ 30 PSI
CS-530	1.30 GPM @ 30 PSI

Irrigation Heads

Symbol	Description
⊙⊙⊙⊙⊙	Hunter Model PROS-06-PRS30 with PRO-SPRAY Nozzle
⊙⊙⊙	Hunter Model PROS-12-PRS30 with PRO-SPRAY Nozzle
⊙⊙⊙⊙	Hunter Model PROS-00-PRS30 with PRO-SPRAY Nozzle
2.0 ▽	Hunter PGP-04 with 2.0 Nozzle
4.0 ▽	Hunter PGP-04 with 4.0 Nozzle
3.5 LA ▽	Hunter PGP-04 with 3.5 LA Nozzle

Pressure Compensating Bubblers

Symbol	Description
●	Hunter Bubbler Model PCB 10

Pipe (Mainline)

Symbol	Description
—	Schedule 40 PVC Pipe

Pipe (Sleeve)

Symbol	Description
—	Schedule 40 PVC Pipe

Remote Control Valves

Symbol	Description
⊙	Hunter Model ICV-151G w/ 1-1/2" PVC Ball Valve in Valve Box

Gate Valve (Isolation)

Symbol	Description
⊙	Aqualine Model BGV-250 or Approved Equal in 12" Valve Box

PHASE I IRRIGATION PLAN

Landscape Architect of Record

**Litterick
Landscape
Architecture**

2740 SW Martin Downs Blvd. #199
Palm City, FL 34990
561-719-3876
JasonLA1677@yahoo.com

**iPLAN
& DESIGN**

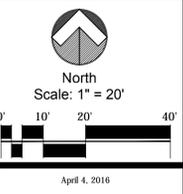
PLANNER
SITE DESIGN
DEVELOPMENT CONSULTANT

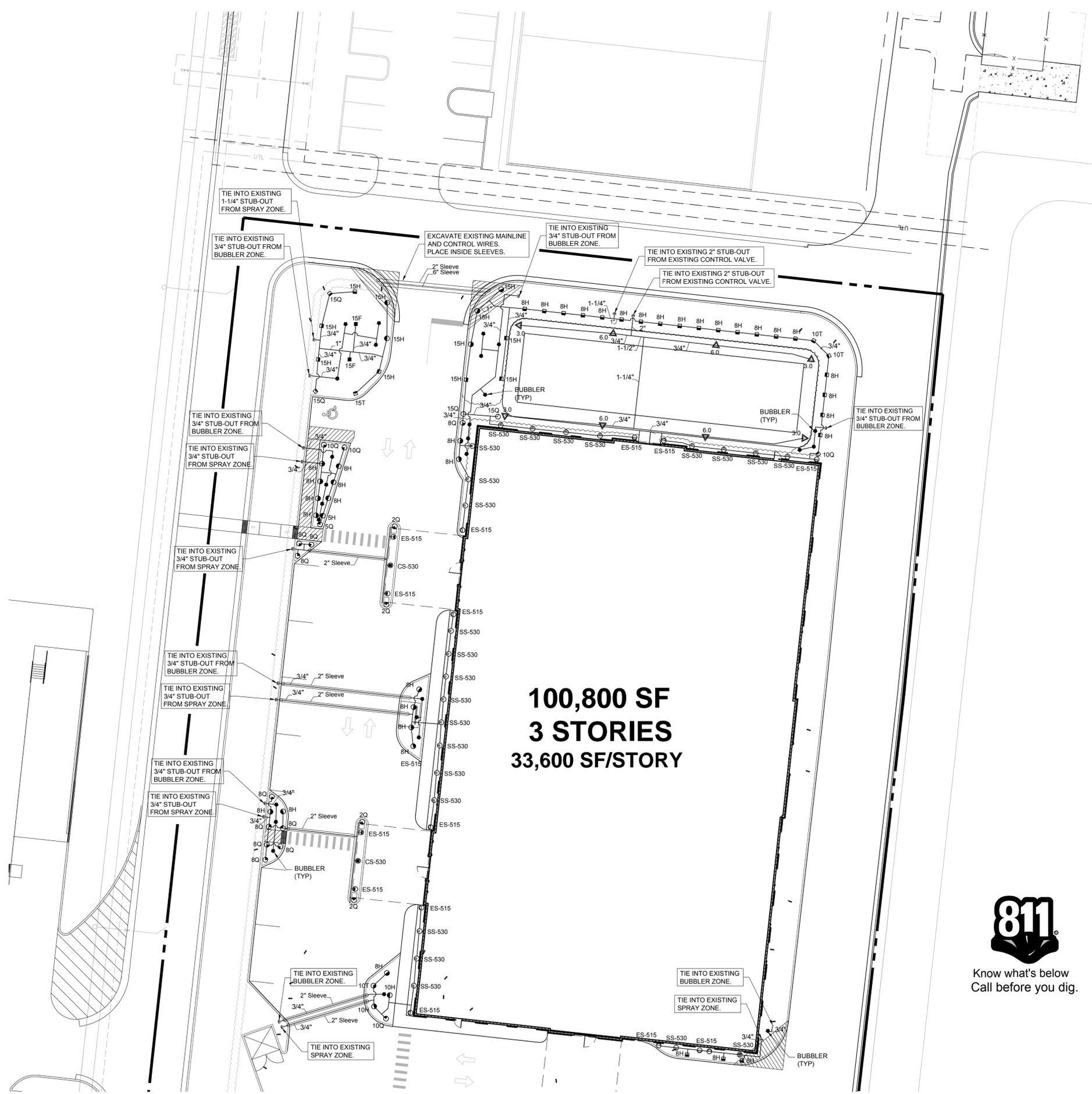
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Spacebox Lake Park, LLC
Lake Park, Florida

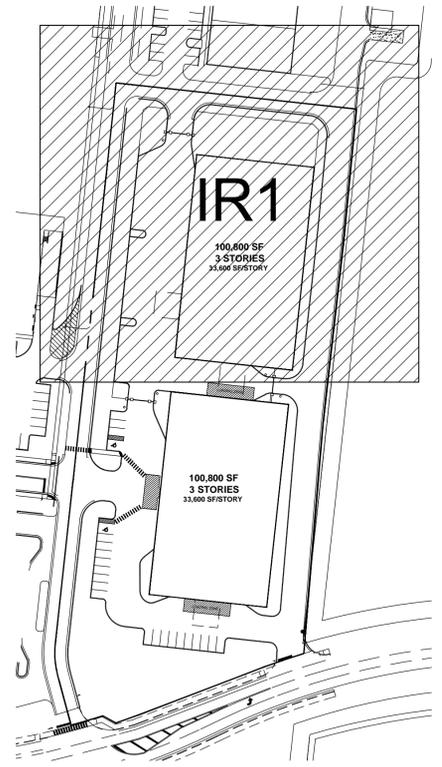
Landscape Architect of Record
Jason M. Litterick, PLA
LA0001677

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DRAWN	CLS
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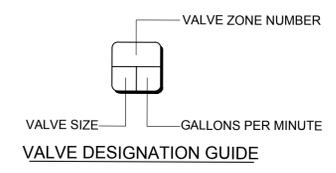




100,800 SF
3 STORIES
33,600 SF/STORY



AREA MAP
 SCALE 1" = 100'-0"



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Irrigation Heads

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	Hunter Model PROS-12-PRS30 with PRO-SPRAY Nozzle
	Hunter Model PROS-00-PRS30 with PRO-SPRAY Nozzle
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	3.0 Hunter PGP-04 with 3.0 Nozzle
	4.5 LA Hunter PGP-04 with 4.5 LA Nozzle

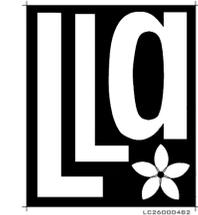
Pressure Compensating Bubblers

Symbol	Description
	Hunter Bubbler Model PCB 10

Pipe (Sleeve)

Symbol	Description
	Schedule 40 PVC Pipe

Landscape Architect of Record



Litterick Landscape Architecture

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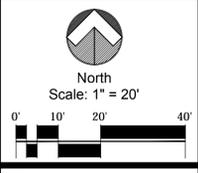
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 Lake Park, Florida

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 LA0001677

DESIGNED	CLS
DRAWN	CLS
APPROVED	JML
JOB NUMBER	
DATE	4/4/2016
REVISIONS	6/10/2016
	7-29-16



April 4, 2016

PHASE II IRRIGATION PLAN

Phase 1
Irrigation Equipment Table

Quantity	Symbol	Description	Radius
376	⊙	Hunter Model PROS-06-PRS30 with PRO-SPRAY Nozzle	5 ft - 15 ft
67	⊙	Hunter Model PROS-12-PRS30 with PRO-SPRAY Nozzle	5 ft - 15 ft
68	⊙	Hunter Model PROS-00-PRS30 with PRO-SPRAY Nozzle	5 ft - 15 ft
3	▽	Hunter PGP-04 with 2.0 Nozzle	26.00 ft - 34.00 ft
10	▽	Hunter PGP-04 with 4.0 Nozzle	30.00 ft - 40.00 ft
1	▽	Hunter PGP-04 with 3.5 LA Nozzle	26.00 ft - 35.00 ft

Quantity	Symbol	Description	Flow Rate
147	●	Hunter Bubbler Model PCB 10	1 GPM

Quantity	Symbol	Description	Size
1970 ft	---	Schedule 40 PVC Pipe	2-1/2"

Quantity	Symbol	Description	Size
120 ft	○	Schedule 40 PVC Pipe	6"
120 ft	○	Schedule 40 PVC Pipe	3"
450 ft	○	Schedule 40 PVC Pipe	2"

Quantity	Symbol	Description	Size
18	⊙	Hunter Model ICV-151G w/ 1-1/2" PVC Ball Valve in Valve Box	1-1/2"

Quantity	Symbol	Description	Size
3	⊙	Aqualine Model BGV-250 or Approved Equal in 12" Valve Box	2-1/2"

Quantity	Symbol	Description	Size
1	⊙	Pump Station as Manufactured by Sullivan Electric & Pump, Inc. or approved equal. Includes Hunter Controller Model IC-600 with 3 ICM-600 Expansion Modules & Autoflush Filter	5 HP (208 V / 3 PHASE)

NOTE: QUANTITIES GIVEN ARE FOR CONTRACTORS CONVENIENCE ONLY. THE ACCURACY IS NOT GUARANTEED. IT IS RECOMMENDED THAT ONE VERIFY ALL QUANTITIES.

IRRIGATION NOTES:

1. Irrigation system design requirements: 60 GPM @ 60 PSI at the point of connection. The point of connection shall be a 5 HP self-priming pump that draws water from an existing lake. The irrigation system shall be operated by an automatic irrigation controller located at the pump station. The irrigation controller shall incorporate a sensor to calculate ET for efficient water application.

2. Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example: obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.

3. Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes in driveways, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, "green" areas.

4. Contractor shall verify all underground utilities prior to commencement of work. Contractor shall secure locates from utilities prior to any excavation.

5. Contractor shall install pop-up sprinklers 6" from edge of sidewalk, 12" from walls and edge of road or parking area. Install sprinkler on risers 18" from sidewalk, walls and edge of road or parking area.

6. Irrigation system design is diagrammatic to improve clarity. All mainline piping, electric valves and wiring are to be installed in landscape areas and within Right of Way boundaries.

7. If required, the Irrigation Contractor shall provide the necessary "Right of Way" use permits.

8. Install bubblers on all large trees and palms.

9. Size all pipe to insure flow velocity is under 5 feet per second.

10. Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted.

11. Mainline is to be installed with a minimum of 18" depth of cover. Lateral lines are to be installed with a minimum of 12" depth of cover. Pipes crossing drives and parking areas shall have minimum 24" depth of cover.

12. Wherever practical, install valves in mulched beds and/or out of high traffic areas. All valves and wire splices shall be installed in heavy duty valve boxes with covers that read irrigation and be sized as follows:

Remote Control Valves: standard 12" deep rectangle valve box
Isolation Gate Valves: standard 12" deep rectangle valve box
Wire Splices: standard 12" deep rectangle valve box

13. Refer to Valve Designation Symbols for valve size, station number and designed flow rate for each remote control valve.

14. All 24 volt control cable to be UL Listed, single strand, type UF 600 volt control cable, size and color as follows:
Cable shall be suitable for direct burial, rated 30 volts.

Common Wires - size AWG #14 and WHITE in color.
Hot Wires - size AWG #14 and RED in color.
Spare Wires - size AWG #14 and BLUE in color.

15. Run two (2) spare wires from controller in each direction of the mainline to furthest valves.

16. All pop-up sprinkler heads shall be installed level and flush to grade.

17. Provide and install Solar Sync sensor where it will be exposed to unobstructed rainfall and sun and connect to irrigation controller.

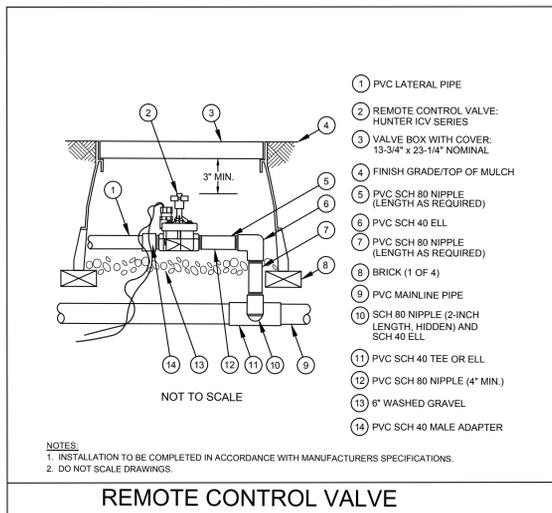
18. All sleeves shall be 2 nominal pipe sizes larger than the size of the pipe to be accommodated. All pipe crossings over 5 feet in length shall be installed inside PVC pipe sleeving.

19. Install acceptable grounding hardware for the irrigation controller per ASIC guidelines. Provide proper grounding components to achieve ground resistance of 10 OHMS or less.

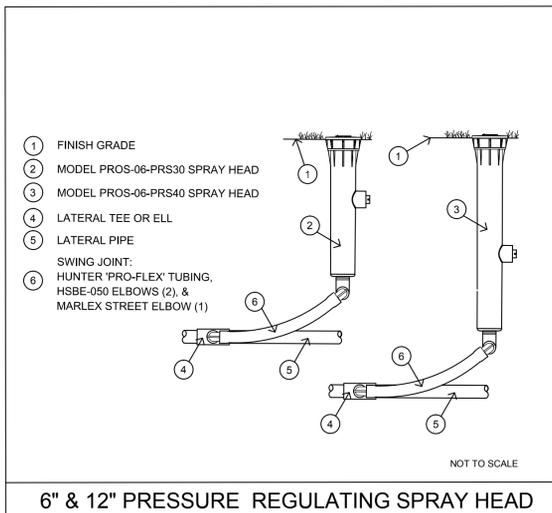
20. The irrigation contractor shall prepare an AS-BUILT drawing on reproducible paper showing all installation that deviates from these drawings. The AS-BUILT drawings shall locate all main line piping, control wires and valves by showing exact measurements from hard surfaces.

21. Any other equipment required that is not other wise detailed or specified shall be installed as per manufacturer's recommendations and specifications.

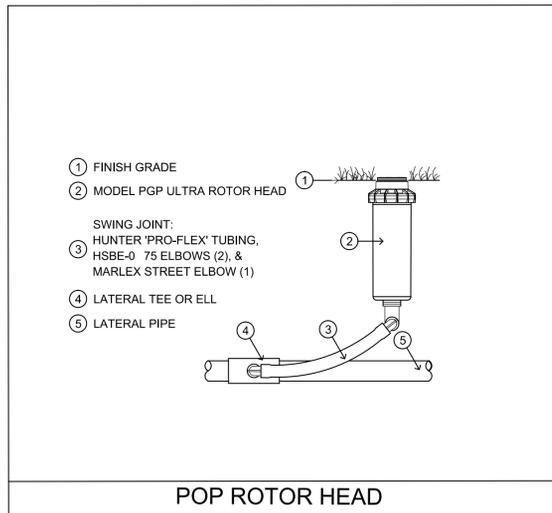
22. The final location of all components shall be approved by the project engineer.



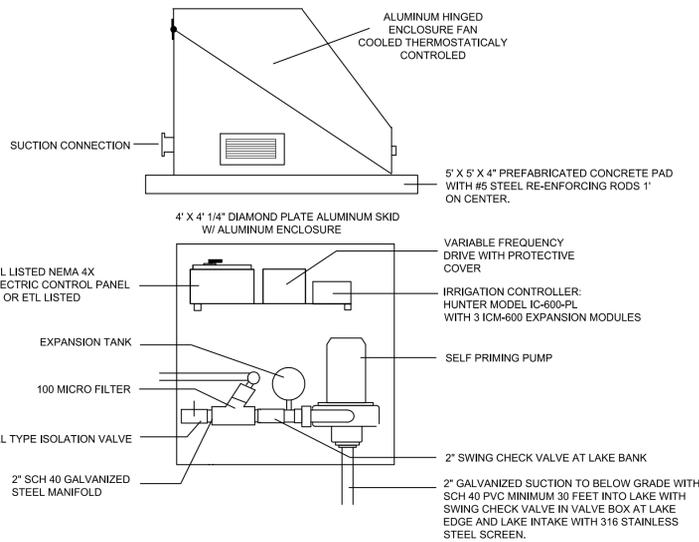
REMOTE CONTROL VALVE



6" & 12" PRESSURE REGULATING SPRAY HEAD

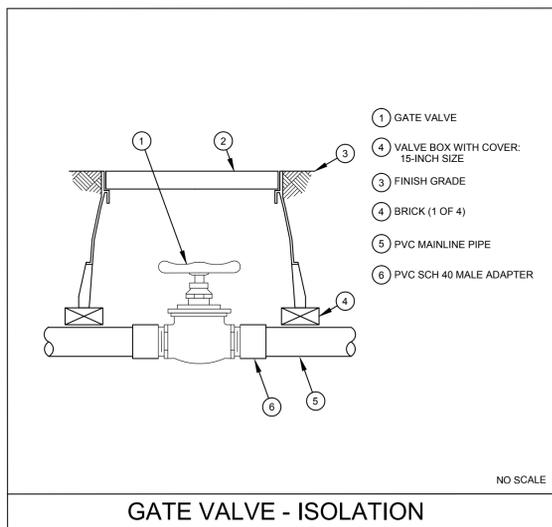


POP ROTOR HEAD

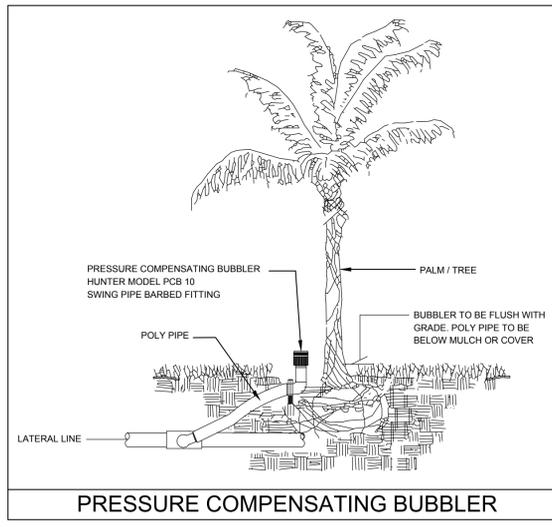


EFFICIENT PUMP SYSTEM AS MANUFACTURED BY SULLIVAN ELECTRIC AND PUMP, INC. (800) 991-2770
PUMP CONDITIONS ARE: GPM 60 @ TDH 163
OPERATING PRESSURE: 60
PUMP: 5 HP SELF PRIMING.
VFD: YASKAWA P7 IQ PUMP OR EQUAL.
VOLTAGE: 208
PHASE: 3
MINIMUM CIRCUIT AMPERAGE: 40 AMP

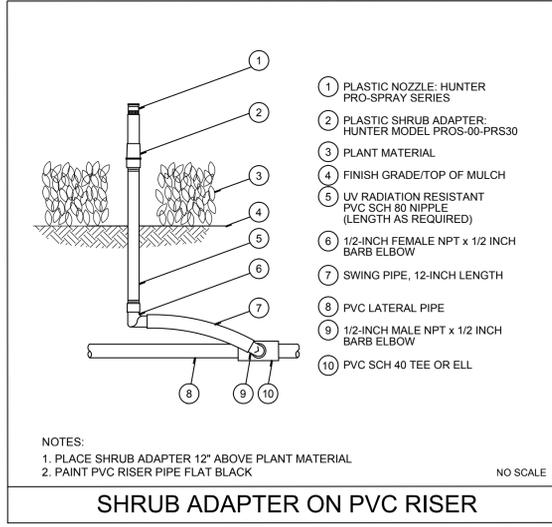
IRRIGATION CLOCK: HUNTER IC-600-PL W/3 ICM-600 MODULES
FLOW METER: 220B TRANSDUCER TO VFD
FILTRATION: 100 MICRO SCREEN FILTER WITH AUTOFLUSH



GATE VALVE - ISOLATION



PRESSURE COMPENSATING BUBBLER



SHRUB ADAPTER ON PVC RISER

PHASE I IRRIGATION DETAILS

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LA0001677

DESIGNED: CLS
DRAWN: CLS
APPROVED: JML
JOB NUMBER:
DATE: 4/4/2016
REVISIONS: 6/10/2016
7-29-16

April 4, 2016

IRRIGATION SYSTEM

PART 1-GENERAL

1.01 SCOPE OF WORK:

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

- A. ALL PIPING, INCLUDING MAINS, LATERALS, FITTINGS, CONNECTIONS, TEES, RISERS, CLAMPS, SWING JOINTS.
- B. ALL CONTROL, GATE, OR OTHER VALVES, INCLUDING VALVE BOXES, MARKERS, CONNECTIONS, BACKFLOW PREVENTERS, OPERATORS, AND OTHER ACCESSORIES.
- C. COMPLETE AUTOMATIC CONTROL SYSTEM AS SHOWN ON THE DRAWINGS, INCLUDING CONTROLLER, CONTROL WIRING CONNECTIONS AND ELECTRICAL CONNECTIONS.
- D. ALL SPRINKLER HEADS, INCLUDING PROPER NOZZLES AS CALLED FOR HEREIN AND SHOWN ON THE PLANS AND ALL OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR PROPER OPERATION.
- E. ALL EXCAVATION, SITE WORK, RELOCATION OR REPLACEMENT OF UTILITIES, BACK FILL AND RESTORATION OF ALL DISTURBED AREAS INCLUDING THE CUTTING, BACK FILLING AND RESURFACING OF ANY ASPHALT AREAS TRENCHED FOR PIPES AND SLEEVING.
- F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERABLE SYSTEM FOR THE IRRIGATION OF ALL LANDSCAPING ON THE PROJECT SITE. PLANS AND SPECIFICATIONS MAY NOT INDICATE ALL ITEMS NECESSARY FOR THE PROPER IRRIGATION OF THE PROJECT. THIS SHALL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO FURNISH LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND PROPER SYSTEM.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING HEAD LOCATION AND ANY OTHER SYSTEM COMPONENTS TO INSURE 100% COVERAGE AND TO COMPLY WITH THE REQUIREMENTS OF THE LANDSCAPING AS INSTALLED.

1.02 SUBMITTALS:

- A. THE CONTRACTOR SHALL MAKE ALL SUBMITTALS IN ACCORDANCE WITH THE GENERAL CONDITIONS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRODUCT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. INCLUDE OTHER DATA AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS.
- B. SUBMIT MANUFACTURER'S TECHNICAL DATA AND INSTALLATION INSTRUCTIONS FOR THE IRRIGATION SYSTEM.
- C. PROVIDE AND KEEP UP TO DATE A COMPLETE SET OF DRAWINGS, CORRECTED DAILY TO SHOW CHANGES IN THE LOCATION OF SPRINKLERS, CONTROLLERS, PUMPS, PIPING, AND OTHER DEVIATIONS FROM THE IRRIGATION DESIGN DRAWINGS. SHOW REMOTE CONTROL VALVE LOCATIONS WITH ACTUAL MEASUREMENTS TO REFERENCE POINTS SO THEY MAY BE LOCATED EASILY IN THE FIELD. UPON COMPLETION OF THE WORK, FURNISH THE OWNER WITH A COMPLETE SET OF PLANS SHOWING THE IRRIGATION SYSTEM AS INSTALLED.
- D. ALL DIMENSIONS INDICATED FOR THE IRRIGATION DESIGN ARE APPROXIMATE. PRIOR TO PROCEEDING WITH THE WORK, CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL VARIATIONS FROM THOSE INDICATED IN THE IRRIGATION PLAN TO THE OWNER IN WRITING.

1.03 GENERAL REQUIREMENTS

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

1.04 DELIVERY, STORAGE AND HANDLING

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

PART 2 - MATERIALS

2.01 PIPE

- A. ALL PIPE SHALL BE NEW AND FREE FROM DEFECTS, AND CONTINUOUSLY MARKED WITH IDENTIFICATION OF THE MANUFACTURER, TYPE, CLASS AND SIZE.
- B. PLASTIC PIPE FOR THE MAIN WATER LINES, AND ALL SLEEVES, SHALL BE SCHEDULE 40 UNPLASTICIZED POLYVINYL CHLORIDE PIPE, SOLVENT WELD TYPE, FOR USE WITH SCHEDULE 40 PVC FITTINGS. PLASTIC PIPE USED FOR LATERALS SHALL BE CLASS 200 PSI SDR (MINIMUM) UNPLASTICIZED POLYVINYL PIPE, TYPE 1120 OR 1220, SOLVENT WELD TYPE. FITTINGS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE PVC, MINIMUM OF SCHEDULE 40. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM CLEAN, VIRGIN, NSF APPROVED TYPE 1, GRADE 1, PVC, CONFORMING TO ASTM RESIN SPECIFICATIONS D1784 AND D2241.

C. ALL TAPS ON MAIN OR LATERALS SHALL BE MADE WITH TEES. ALL NON-THREADED TYPE JOINTS SHALL BE SOCKET TYPE, DESIGNED FOR SOLVENT TYPE APPLICATION.

D. PRIOR TO THE CONNECTION OF ANY JOINT WITH PVC GLUE, THE FITTING AND PIPES SHALL BE TREATED WITH A HIGH ETCH PVC CLEANER. THE CLEANER AND SOLVENT USED SHALL BE COMPATIBLE WITH THE PVC PIPE USED. SCREW JOINTS SHALL BE MADE WITH AN ACCEPTABLE SCREW JOINT PIPE JOINT COMPOUND. UPON COMPLETION OF GLUE JOINTS, THE IRRIGATION SYSTEM SHALL REMAIN OUT OF SERVICE FOR THE PERIOD OF TIME SPECIFIED BY THE GLUE MANUFACTURER.

E. ALL SLEEVES SHALL BE 2 NOMINAL PIPE SIZES LARGER THAN THE SIZE OF PIPE TO BE ACCOMMODATED.

2.03 CONTROL LINES

- A. ELECTRIC CONTROL WIRE - ALL ELECTRIC CONTROL AND GROUND WIRE SHALL BE NOT LESS THAN 14 GAUGE. ALL WIRING TO BE USED FOR CONNECTION TO THE AUTOMATIC REMOTE VALVES TO THE AUTOMATIC CONTROLLER SHALL BE TYPE "UF", 600 VOLT, SOLID CONDUCTOR, SINGLE CONDUCTOR WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE.
- B. INSULATION SHALL BE 4/64" THICK MINIMUM COVERING FOR POSITIVE WATERPROOF PROTECTION OF SIZES AWG SIZE 18 THROUGH AND INCLUDING AWG SIZE 10. AWG SIZE 8 THROUGH SIZE 00 SHALL BE INSULATED WITH 5/64" THICK MINIMUM COVERING.
- C. VERIFICATION OF WIRE TYPES AND INSTALLATION PROCEDURES SHALL BE CHECKED TO CONFORM TO LOCAL CODES.
- D. PULSE CIRCUIT WIRES SHALL BE RED IN COLOR AND COMMON WIRE SHALL BE WHITE.

2.04 CONTROL EQUIPMENT

- A. AUTOMATIC CONTROLLER WITH A WEATHER SENSOR, SHALL BE AS NOTED ON DRAWINGS. THE CONTROLLER SHALL BE SECURELY MOUNTED AS NOTED IN THE DRAWINGS.
- B. AUTOMATIC CONTROL VALVES SHALL BE AS NOTED ON THE DRAWINGS. ALL VALVES SHALL BE SIZED AS NOTED ON THE DRAWINGS. VALVE BOXES SHALL BE SIZED LARGE ENOUGH TO ALLOW REPAIR OF THE VALVE WITHOUT REQUIRING ITS REMOVAL FROM THE VALVE BOX.

2.05 SPRINKLER HEADS

- A. PROVIDE ALL SPRINKLERS AS SHOWN ON IRRIGATION DESIGN DRAWINGS, OR AN EQUAL ACCEPTED IN WRITING.
- B. ALL SPRINKLER NOZZLES SHALL PERFORM TO THE MANUFACTURERS SPECIFICATIONS CONCERNING DIAMETER OF THROW AND GALLONAGE AT GIVEN PRESSURES.

PART 3 - EXECUTION

3.01 TRENCHING

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

3.02 BACK FILLING

- A. BACK FILL OVER-EXCAVATION OF TRENCHES UNDER PIPE WITH CLEAN, SANDY FILL MATERIAL, FREE OF ORGANIC MATERIALS AND OBJECTS LARGER THAN 1/4" DIAMETER. BACK FILL ONLY AFTER PRESSURE TESTING.
- B. BACK FILL TRENCHES FROM 2" ABOVE TOP OF PIPE UP TO FINISH GRADE WITH CLEAN SANDY FILL MATERIAL REMOVED BY EXCAVATION.
- C. INSTALL WIRE IN TRENCH WITH PIPE, TAPING WIRE TO PIPE AT 10 FOOT INTERVALS.
- D. NO PAVEMENT EXCEPT AS NOTED, SHALL BE CUT TO INSTALL IRRIGATION WORK. COORDINATE WITH PAVING OPERATION TO ASSURE ALL SLEEVES ARE INSTALLED UNDER DRIVES AND WALKWAYS PRIOR TO PAVING.

3.03 INSTALLATION

- A. INSTALL ALL MATERIALS AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIALS. THE OWNER RETAINS THE RIGHT TO ORDER REMOVAL OF REPLACEMENT OF ANY ITEM WHICH, IN HIS OPINION, DO NOT PRESENT A REASONABLE NEAT AND WORKMANLIKE APPEARANCE. PERFORM AND COMPLETE ANY REQUIRED REMOVAL AND REPLACING OF MATERIALS WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- B. INDIVIDUALLY SLEEVE ALL PVC PIPING THAT CROSS WALKWAYS AND PATHWAYS MORE THAN 5" IN WIDTH. ALL SLEEVES UNDER ROADWAYS AND WALKWAYS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE.
- C. INSTALL ALL VALVE BOXES, OR ANY OTHER MISCELLANEOUS MARKER OR ACCESS BOX SO THE TOP OF SAID STRUCTURE IS AT FINISHED GRADE UNDER LAID WITH A MINIMUM OF 6" OF 3/4" GRAVEL. INSTALL ALL VALVE BOXES AS INDICATED ON DRAWINGS.
- D. ADJUST AUTOMATIC CONTROL VALVES TO PROVIDE FLOW RATE OF RATED OPERATING PRESSURE REQUIRED FOR EACH SPRINKLER CIRCUIT.
- E. INSTALL ELECTRIC REMOTE CONTROL VALVES AS INDICATED ON THE DRAWINGS AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- F. ADJUST FLOW CONTROL STEM ON ALL REMOTE CONTROL ZONE VALVES TO MINIMIZE ANY OVER PRESSURIZATION BEFORE ANY INDIVIDUAL NOZZLE ADJUSTMENTS ON THE SPRINKLERS ARE PERFORMED.

3.04 PIPING

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

3.05 SPRINKLERS

- A. PRIOR TO INSTALLING SPRINKLER HEADS, FLUSH CIRCUIT LINES WITH WATER UNTIL FREE OF DEBRIS.
- B. ALL SPRINKLER HEADS SHALL BE INSTALLED ON SWING JOINT AS SHOWN ON THE DRAWINGS. THE SPRINKLER HEAD SHALL BE INSTALLED SO THAT THE TOP IS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION WITH RESPECT TO THE FINISHED GRADE LEVEL, AND MARKED WITH A FLAG TO ASSIST IN PREVENTING DAMAGE TO SPRINKLER HEADS. BACK FILL AROUND SWING JOINTS AND SPRINKLERS SHALL BE CLEAN SAND FILL MATERIAL FREE OF ROCKS, ORGANICS, OR OTHER FOREIGN DEBRIS.
- C. LOCATE PART-CIRCLE HEADS TO MAINTAIN A MINIMUM DISTANCE OF 12" FROM WALLS AND 6" FROM OTHER BOUNDARIES, UNLESS OTHERWISE INDICATED.
- D. ALL BUBBLERS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE TREE TO BE IRRIGATED. IF THE TREE IS LOCATED ON A SLOPE, THE BUBBLER SHOULD BE LOCATED AT THE TREE BALL NEAR THE HIGH SIDE OF THE SLOPE.

3.06 ELECTRICAL COMPONENTS

- A. SIZE ALL ELECTRIC CONTROL WIRE AS PREVIOUSLY STATED, INSTALL IN THE PIPING TRENCHES WHEREVER POSSIBLE AND PLACE UNDER THE PVC PIPING. TAPE CONTROL WIRES TOGETHER WITH ELECTRICAL TAPE NOT MORE THAN 10 FEET O.C. SNAKE WIRE INTO THE TRENCH AS LOOSE AS POSSIBLE AND WITH AS MUCH SLACK AS POSSIBLE TO ALLOW FOR THE EXPANSION AND CONTRACTION OF THE WIRE.
- B. CONNECTIONS AT ALL REMOTE CONTROL VALVES AND AT ALL WIRE SPLICES, LEAVE WIRE WITH SUFFICIENT SLACK SO THAT IN CASE OF REPAIR THE VALVE BONNET OR SPLICE MAY BE BROUGHT TO THE SURFACE WITHOUT DISCONNECTING THE WIRES. SPLICE ALL WIRE IN VALVE BOXES. MAKE SPLICES USING UL LISTED WATERPROOF WIRE CONNECTORS AS RECOMMENDED BY THE WIRE MANUFACTURER.
- C. PROVIDE WIRE SIZES TO REMOTE CONTROL VALVES NOT LESS THAN 14 GAUGE. CONNECT ALL REMOTE CONTROL VALVES, WHICH ARE TO BE CONNECTED TO THE SAME CONTROLLER, TO A COMMON GROUND WIRE OF A SIZE NOT LESS THAN 14 GAUGE. PROVIDE EACH INDIVIDUAL CONTROLLER WITH A SEPARATE COMMON GROUND WIRE WIRE SYSTEM ENTIRELY INDEPENDENT OF THE COMMON GROUND WIRE SYSTEM OF ALL OTHER CONTROLLERS. CONNECT ONLY THOSE REMOTE CONTROL VALVES THAT ARE BEING CONTROLLED BY ONE SPECIFIC CONTROLLER, TO THAT CONTROLLER'S COMMON GROUND WIRE SYSTEM. THE CONTROL VALVE CONFIGURATION PIPING SHALL NOT BE OF THE PREFABRICATED TYPE BUT SHALL BE MANUFACTURED IN THE FIELD ONLY USING SCHEDULE 80 NIPPLES AND COUPLINGS. INSTALL ALL VALVES IN VALVE BOXES.
- D. INSTALL ALL VALVE BOXES SO THAT THE TOPS OF ALL BOXES ARE LEVEL WITH EACH OTHER AND THE SIDES OF ALL BOXES ARE PARALLEL TO EACH OTHER.
- E. INSTALL ALL CONTROLLERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER OF EQUIPMENT WITH LOCATION OF ALL CONTROLLERS APPROVED BY THE OWNER BEFORE THE ACTUAL INSTALLATION OF THE CONTROLLERS.
- F. INSTALL LIGHTNING PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO PROTECT EACH AUTOMATIC CONTROLLER.
- G. USE DIELECTRIC FITTINGS AT CONNECTION WHERE PIPES OF DISSIMILAR METAL ARE JOINED.

3.07 TESTS

- A. PERFORM OPERATIONAL TESTING AFTER BACK FILL IS IN PLACE, AND SPRINKLER HEADS ARE ADJUSTED TO FINAL POSITION. DEMONSTRATE TO OWNER THAT SYSTEM MEETS COVERAGE REQUIREMENTS AND THAT AUTOMATIC CONTROLS FUNCTION PROPERLY. COVERAGE REQUIREMENTS ARE BASED ON OPERATION OF ONE CIRCUIT AT A TIME.
- B. AFTER COMPLETION OF GRADING, SEEDING OR SODDING, AND ROLLING OF GRASS AREAS, CAREFULLY ADJUST LAWN SPRINKLER HEADS SO THAT THEY WILL BE FLUSH WITH FINISH GRADE.
- C. ADJUST THE VARIOUS COMPONENTS OF THE SPRINKLER SYSTEM SO THE OVERALL OPERATION OF THE SYSTEM IS EFFICIENT. BALANCING AND ADJUSTMENT SHALL INCLUDE A SYNCHRONIZATION OF THE CONTROLLERS, WATER QUALITY CONTROL EQUIPMENT, SPRINKLER HEADS, AND INDIVIDUAL STATION ADJUSTMENTS ON THE CONTROLLERS.
- D. UPON COMPLETION OF THE WORK AND FINAL ACCEPTANCE BY THE OWNER, TRAIN MAINTENANCE PERSONNEL IN THE OPERATION, MAINTENANCE, AND REPAIR OF THE SYSTEM. PROVIDE COPIES OF MATERIALS, ALL PARTS LISTS, TROUBLE SHOOTING LISTS, SPECIFICATIONS SHEETS, AND CATALOG SHEETS TO THE SCHEDULES AND PROGRAMMING OF THE AUTOMATIC CONTROLLERS IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR IRRIGATION DRAWINGS. SUBMIT ALL WARRANTY INFORMATION TO OWNER.

3.08 WARRANTY

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

Landscape Architect of Record



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DESIGNED	CLS
DRAWN	CLS
APPROVED	JML
JOB NUMBER	
DATE	4/4/2016
REVISIONS	6/10/2016
	7-29-16

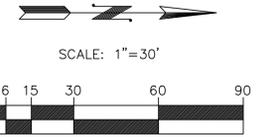
April 4, 2016

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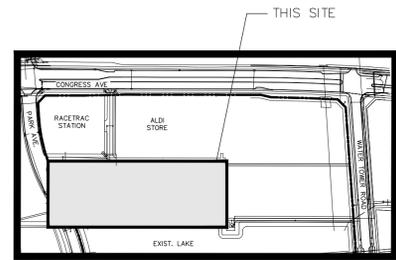
PHASE I IRRIGATION SPECIFICATIONS



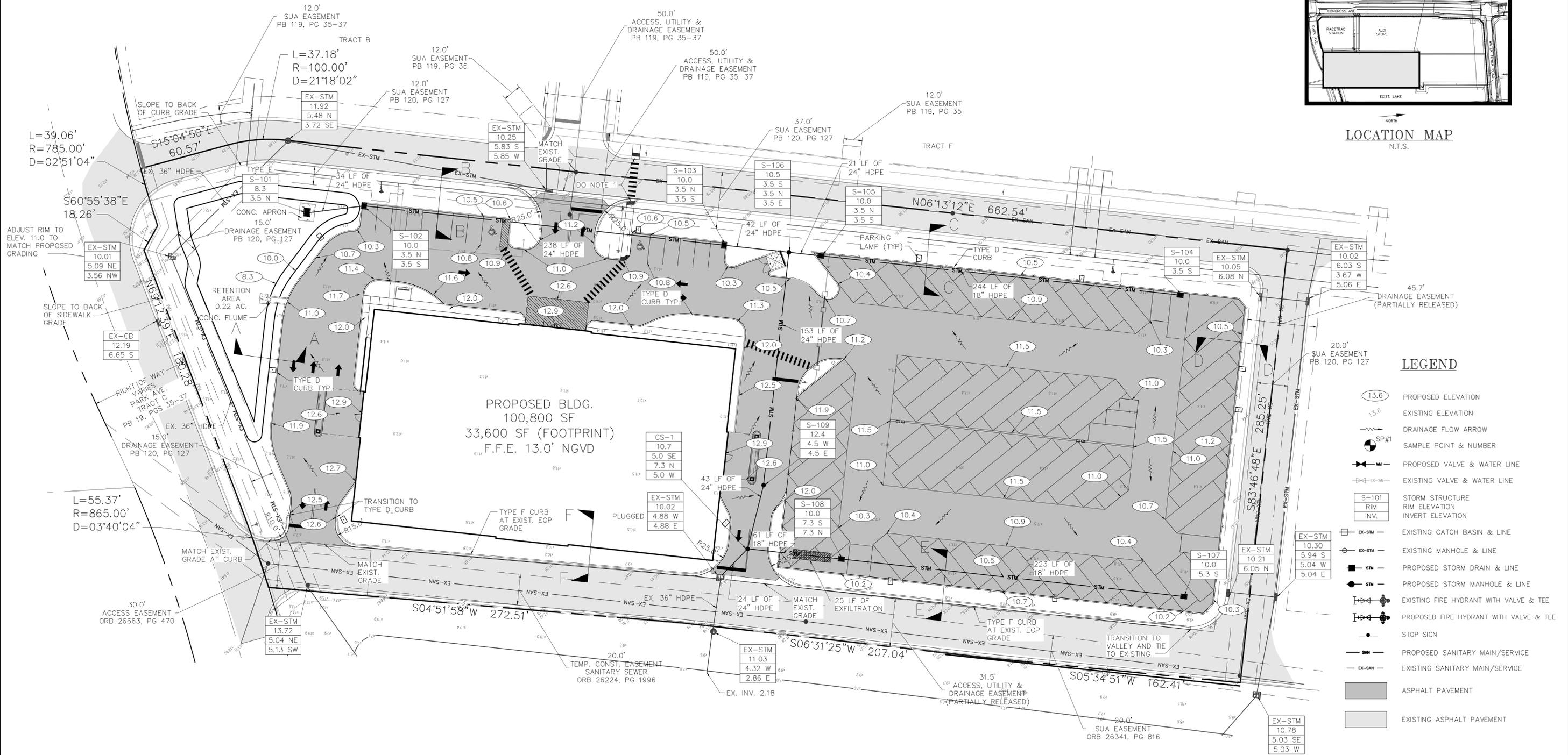
Know what's below.
Call before you dig.



NOTES:
1. CURB RAMP PER FDOT INDEX 304
2. ELEVATIONS SHOWN HEREON REFER TO N.G.V.D. 1929.



LOCATION MAP
N.T.S.



LEGEND

- 13.6 PROPOSED ELEVATION
- 15.6 EXISTING ELEVATION
- DRAINAGE FLOW ARROW
- SP#1 SAMPLE POINT & NUMBER
- PROPOSED VALVE & WATER LINE
- EXISTING VALVE & WATER LINE
- S-101 STORM STRUCTURE
- RIM RIM ELEVATION
- INV. INVERT ELEVATION
- EX-STM EXISTING CATCH BASIN & LINE
- EX-STM EXISTING MANHOLE & LINE
- STM PROPOSED STORM DRAIN & LINE
- STM PROPOSED STORM MANHOLE & LINE
- EXISTING FIRE HYDRANT WITH VALVE & TEE
- PROPOSED FIRE HYDRANT WITH VALVE & TEE
- STOP SIGN
- SAN PROPOSED SANITARY MAIN/SERVICE
- EX-SAN EXISTING SANITARY MAIN/SERVICE
- ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT

SMILEY & ASSOCIATES, INC.
 1928 COMMERCE LANE, SUITE 2, JUPITER, FLORIDA 33458
 561-747-8335 • msmiley@smiley-associates.com
 www.smiley-associates.com
 EB # 6613

MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER,
 LICENSE NO. 54864
 THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY
 MARK C. SMILEY, P.E.
 ON 8/8/16 USING A SHA-1 AUTHENTICATION CODE.
 PRINTED COPIES OF THIS DOCUMENT ARE NOT
 CONSIDERED SIGNED AND SEALED AND THE
 SHA-1 AUTHENTICATION CODE MUST BE
 VERIFIED ON ANY ELECTRONIC COPIES

REV.	DESCRIPTION	APRV.	DATE

**SPACEBOX
LAKE PARK**
 FOR
 SPACEBOX LAKE PARK, LLC
 LAKE PARK, FLORIDA

PAVING, GRADING & DRAINAGE PLAN

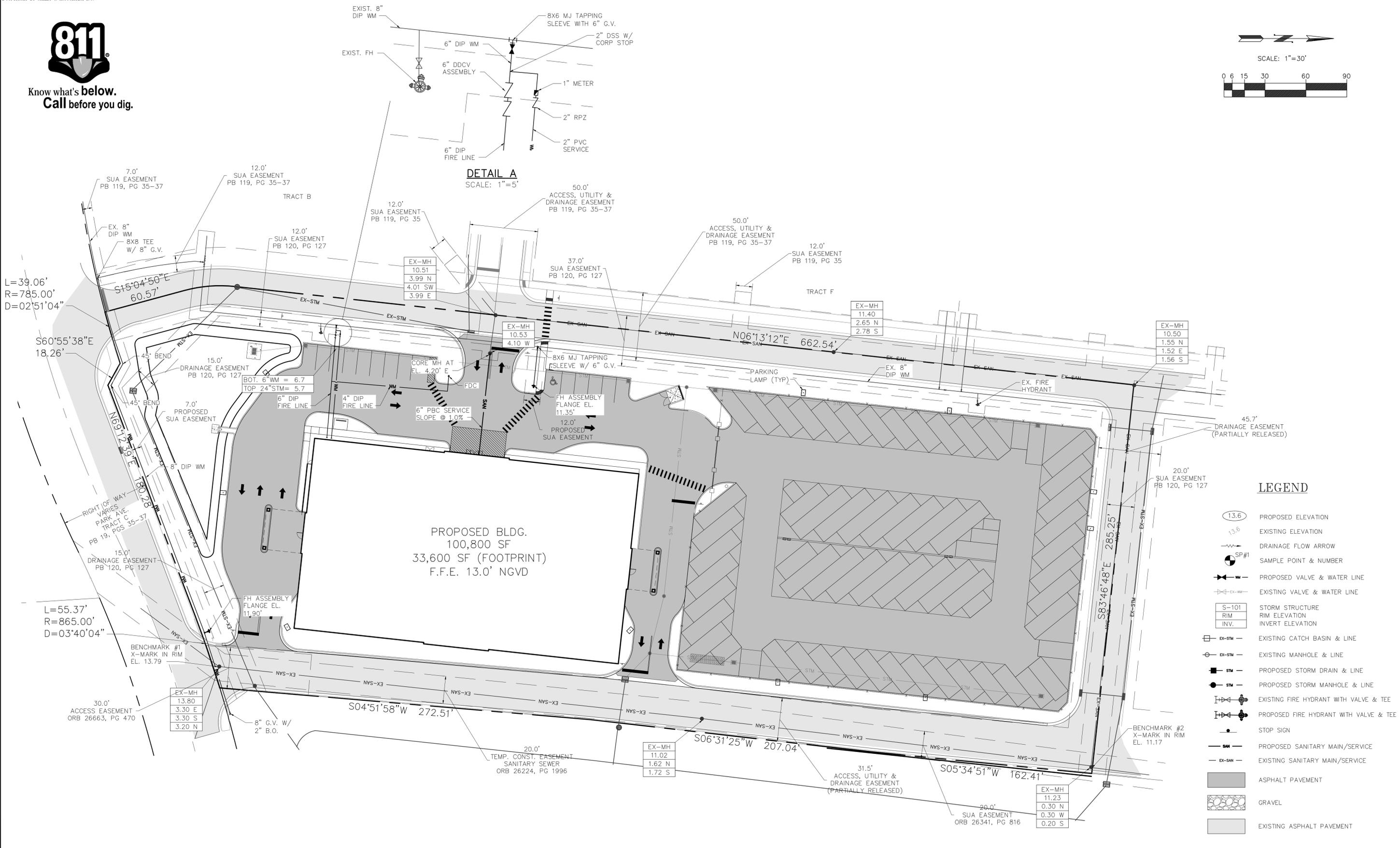
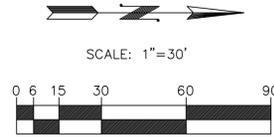
DATE 8/8/16	
DRT	DRT
DSG	MS
CHK	MS
CADDWG 005PLAN	

8/8/16

C1
 SHEET TYPE
 SHEET 1 OF 10
 JOB # 16-005



Know what's below.
Call before you dig.



DETAIL A
SCALE: 1"=5'

LEGEND

- 13.6 PROPOSED ELEVATION
- 15.6 EXISTING ELEVATION
- DRAINAGE FLOW ARROW
- SP#1 SAMPLE POINT & NUMBER
- PROPOSED VALVE & WATER LINE
- EXISTING VALVE & WATER LINE
- S-101 STORM STRUCTURE
- RIM RIM ELEVATION
- INV. INVERT ELEVATION
- EX-SBM --- EXISTING CATCH BASIN & LINE
- EX-SHM --- EXISTING MANHOLE & LINE
- STM --- PROPOSED STORM DRAIN & LINE
- STM --- PROPOSED STORM MANHOLE & LINE
- EX-FH --- EXISTING FIRE HYDRANT WITH VALVE & TEE
- FH --- PROPOSED FIRE HYDRANT WITH VALVE & TEE
- STOP SIGN
- SAN --- PROPOSED SANITARY MAIN/SERVICE
- EX-SAN --- EXISTING SANITARY MAIN/SERVICE
- ASPHALT PAVEMENT
- GRAVEL
- EXISTING ASPHALT PAVEMENT

SMILEY & ASSOCIATES, INC.
1928 COMMERCE LANE, SUITE 2, JUPITER, FLORIDA 33458
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www.smiley-associates.com
EB # 8613

MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK C. SMILEY, P.E. ON 8/8/16. USING A SHA-1 AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REV.	DESCRIPTION	APRV.	DATE
REVISION NOTES			

SPACEBOX LAKE PARK
FOR
SPACEBOX LAKE PARK, LLC
LAKE PARK, FLORIDA

WATER & SEWER PLAN

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

C2
SHEET TYPE
SHEET 2 OF 10
JOB # 16-005

STRIPING KEY

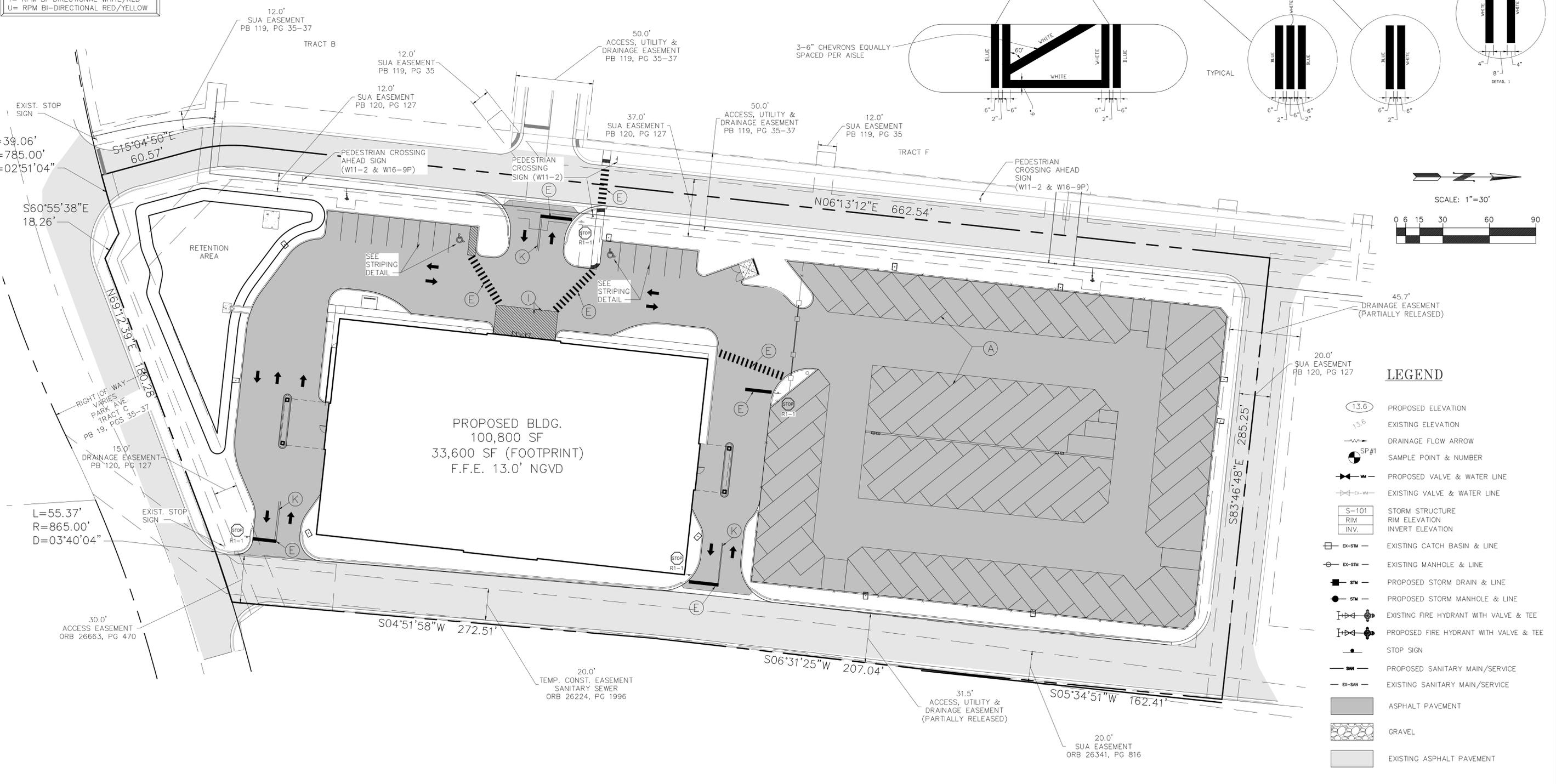
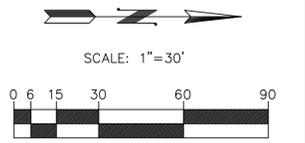
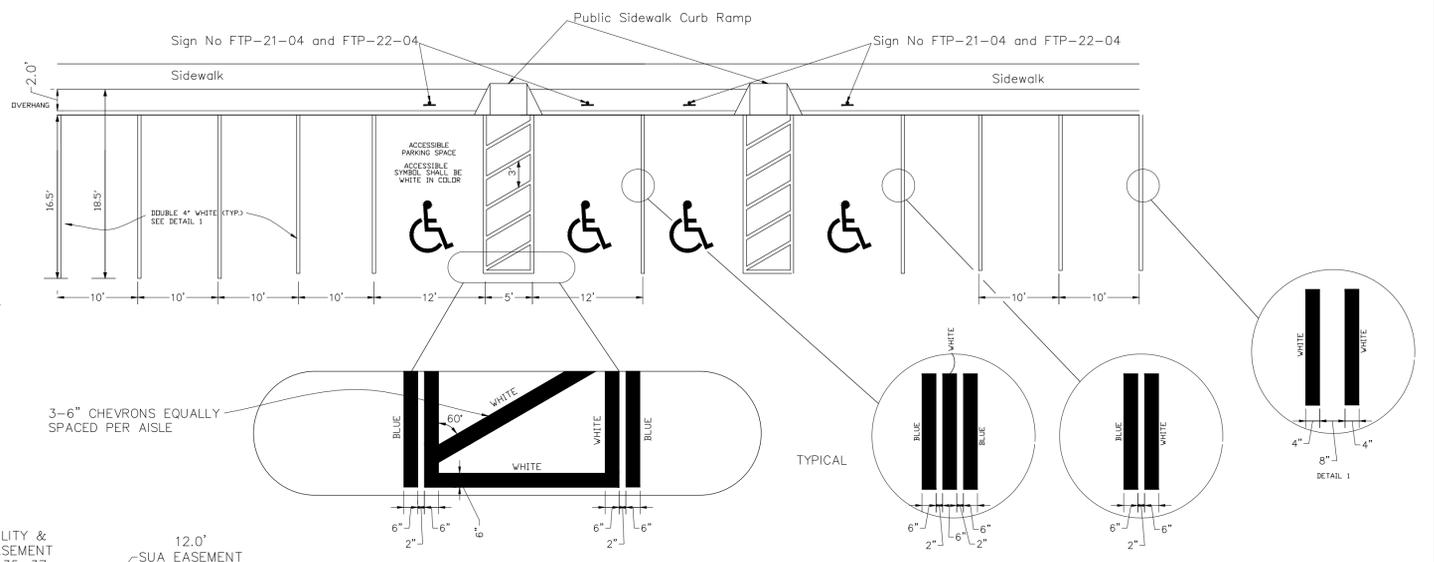
- A= 6" SOLID WHITE
- B= 8" SOLID WHITE
- C= 12" SOLID WHITE
- D= 18" SOLID WHITE
- E= 24" SOLID WHITE
- F= 6" SKIP WHITE TYP. (10'-30')
- G= 6" SKIP WHITE TYP. (6'-10')
- H= 6" SKIP WHITE TYP. (2'-4')
- I= 6" SOLID YELLOW
- J= 18" SOLID YELLOW
- K= 6" DOUBLE YELLOW
- L= 6" SKIP YELLOW TYP. (10'-30')
- M= 6" SKIP YELLOW TYP. (6'-10')
- N= 6" SKIP YELLOW TYP. (2'-4')
- P= RPM BI-DIRECTIONAL AMBER/AMBER
- R= FDP WHITE
- S= FDP YELLOW
- T= RPM BI-DIRECTIONAL WHITE/RED
- U= RPM BI-DIRECTIONAL RED/YELLOW

* FOR ACCESSIBLE MARKINGS-SEE ABOVE

"DIMENSIONS"

	"A"	"B"	"C"	"D"	"E"
45°	19'-1"	12'-9"	7'-0"	27'-0"	17'-0"
60°	20'-1"	10'-5"	5'-9"	23'-2"	13'-10"

- NOTES:**
1. DIMENSIONS ARE TO THE CENTELINE OF MARKINGS.
 2. AN ACCESS AISLE IS REQUIRED FOR EACH ACCESSIBLE SPACE WHEN ANGLE PARKING IS USED.
 3. CRITERIA FOR PAVEMENT MARKINGS ONLY, NOT PUBLIC SIDEWALK CURB RAMP LOCATIONS. FOR RAMP LOCATIONS REFER TO PLANS.
 4. BLUE PAVEMENT MARKINGS SHALL BE TINTED TO MATCH SHADE 15180 OF FEDERAL STANDARDS 595a.
 5. THE FTP-22 -04 PANEL SHALL BE MOUNTED BELOW THE FTP-21-04 SIGN.



LEGEND

- (13.6) PROPOSED ELEVATION
- 15.6 EXISTING ELEVATION
- DRAINAGE FLOW ARROW
- SP#1 SAMPLE POINT & NUMBER
- W — PROPOSED VALVE & WATER LINE
- EX-W — EXISTING VALVE & WATER LINE
- S-101 STORM STRUCTURE
- RIM RIM ELEVATION
- INV. INVERT ELEVATION
- EX-STM EXISTING CATCH BASIN & LINE
- EX-STM EXISTING MANHOLE & LINE
- STM PROPOSED STORM DRAIN & LINE
- STM PROPOSED STORM MANHOLE & LINE
- EXISTING FIRE HYDRANT WITH VALVE & TEE
- PROPOSED FIRE HYDRANT WITH VALVE & TEE
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- ASPHALT PAVEMENT
- GRAVEL
- EXISTING ASPHALT PAVEMENT

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MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
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 ON 8/8/16 USING A SHA-1 AUTHENTICATION CODE.
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REV.	DESCRIPTION	APRV.	DATE

REVISION NOTES

SPACEBOX LAKE PARK
 FOR SPACEBOX LAKE PARK, LLC
 LAKE PARK, FLORIDA

SIGNAGE & STRIPING PLAN

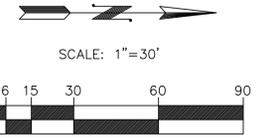
DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

C3
 SHEET TYPE
SHEET 3 OF 10
 JOB # 16-005

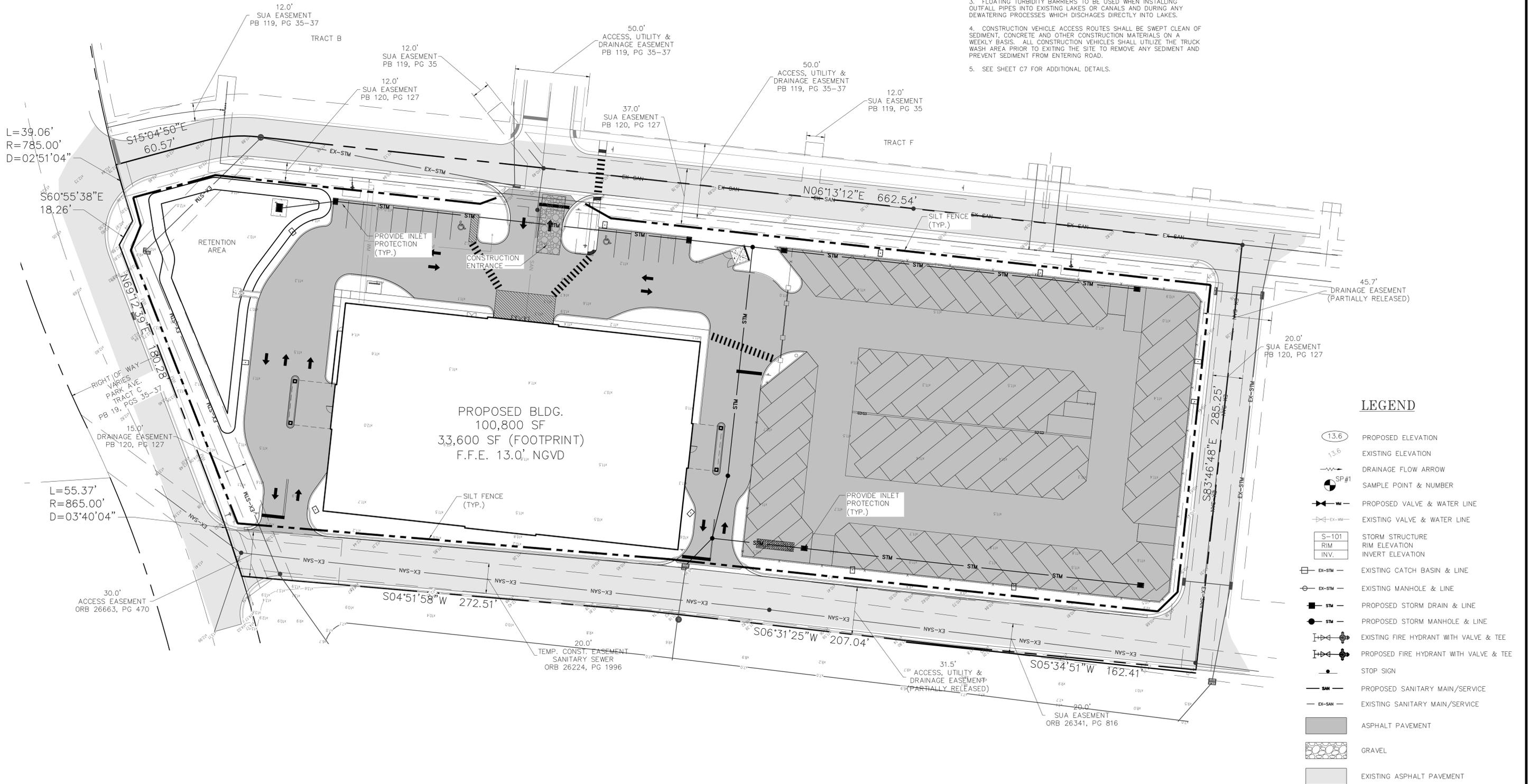


Know what's below.
Call before you dig.



NOTES:

1. ALL STORM SEWER INLET GRATES TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
2. CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNER THAT WILL PROVIDE FOR DRAINAGE TOWARD THE CENTER OF THE PROJECT AND A POLLUTION PREVENTION DEVICE. WHERE THIS IS NOT POSSIBLE SILT FENCES WILL BE PROVIDED SUCH THAT ALL RUNOFF FROM THE SITE WILL PASS THRU A POLLUTION PREVENTION DEVICE PRIOR TO DISCHARGE.
3. FLOATING TURBIDITY BARRIERS TO BE USED WHEN INSTALLING OUTFALL PIPES INTO EXISTING LAKES OR CANALS AND DURING ANY DEWATERING PROCESSES WHICH DISCHARGES DIRECTLY INTO LAKES.
4. CONSTRUCTION VEHICLE ACCESS ROUTES SHALL BE SWEEPED CLEAN OF SEDIMENT, CONCRETE AND OTHER CONSTRUCTION MATERIALS ON A WEEKLY BASIS. ALL CONSTRUCTION VEHICLES SHALL UTILIZE THE TRUCK WASH AREA PRIOR TO EXITING THE SITE TO REMOVE ANY SEDIMENT AND PREVENT SEDIMENT FROM ENTERING ROAD.
5. SEE SHEET C7 FOR ADDITIONAL DETAILS.



LEGEND

- 13.6 PROPOSED ELEVATION
- 15.6 EXISTING ELEVATION
- DRAINAGE FLOW ARROW
- SP#1 SAMPLE POINT & NUMBER
- PROPOSED VALVE & WATER LINE
- EXISTING VALVE & WATER LINE
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EB # 0613

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REV.	DESCRIPTION	APRV.	DATE

REVISION NOTES

SPACEBOX LAKE PARK
FOR
SPACEBOX LAKE PARK, LLC
LAKE PARK, FLORIDA

POLLUTION CONTROL PLAN

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

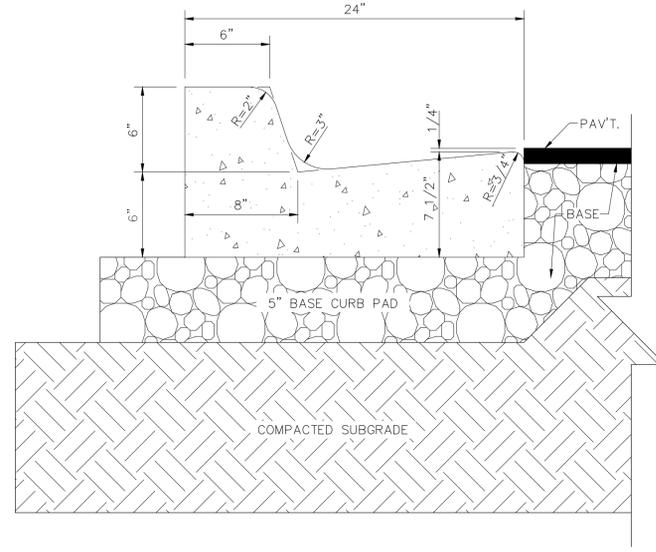
C4
SHEET TYPE
SHEET 4 OF 10
JOB # 16-005

GENERAL NOTES
PAVING, GRADING & DRAINAGE

- ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. THE CONTRACTOR SHALL CONFIRM ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY PRIOR TO PERFORMING THE WORK. ALL QUANTITIES SHALL BE PAID ON THE BASIS OF FIELD MEASUREMENTS OF COMPLETED WORK.
- ALL DRAINAGE PIPE SHALL BE CORRUGATED ALUMINUM PIPE (C.A.P.) AND REINFORCED CONCRETE PIPE (R.C.P.) AND SHALL BE IN ACCORDANCE WITH AASHTO, A.S.T.M. & FDOT DESIGNATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE OF THE WORK AND OF ANY MATERIAL SOURCES INDICATED IN THE PLANS, AS MAY BE NECESSARY TO INFORM HIMSELF OF THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.
- PROPOSED GRADES SHOWN IN PAVED AREAS REFER TO FINISH PAVEMENT GRADES.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (T-P-13) AND PALM BEACH COUNTY STANDARDS.
- ALL LOTS, ROADWAYS AND BORROW AREAS SHALL BE STRIPPED OF ALL DELETERIOUS (UNSUITABLE) MATERIALS AND MATERIALS SHALL BE DISPOSED WITHIN THE SITE.
- ALL GRADING OF STREETS, INCLUDING THE REMOVAL OF ALL MATERIALS AND THE FINISHING OF ALL SHOULDERS, SUBGRADE PREPARATION, SWALES AND BACKSLOPES, IN ACCORDANCE WITH THE TYPICAL SECTIONS SHOWN HEREON SHALL BE INCLUDED IN THE BID PRICE FOR PAVING.
- ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- ANY MUCK POCKET IS TO BE REMOVED COMPLETELY FROM THE CENTERLINE TO 10' BEYOND THE PAVEMENT ON EACH SIDE.
- ANY CUMBO ENCOUNTERED TO BE REMOVED WITHIN THE ROADWAY 1.0' BELOW SUBGRADE TO OUTSIDE EDGE OF SHOULDERS.
- ALL PAVING & DRAINAGE WORK TO BE CONSTRUCTED IN FULL ACCORDANCE WITH FDOT, COUNTY & LAKE PARK STANDARDS AND SPECIFICATIONS.
- THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT WILL BE BENEATH THE PAVEMENT CURRENTLY TO BE CONSTRUCTED SHALL BE INSTALLED PRIOR TO THE COMPACTION OF SUBGRADE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PIPE, PIPE BANDS, DRAINAGE STRUCTURES, GRATES, FRAMES AND COVERS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE DRAWINGS AND SHALL VERIFY ALL ELEVATIONS BEFORE STARTING CONSTRUCTION.
- WHERE CONNECTIONS TO AN EXISTING DRAINAGE SYSTEM ARE PROPOSED, SAID EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE PURGED OF ALL SILT AND DEBRIS PRIOR TO SAID CONNECTION. WHERE EXISTING DRAINAGE SYSTEM INCLUDES DITCHES, SAID DITCHES SHALL BE CLEARED AND REWORKED AS NECESSARY, TO RESTORE THEM TO THEIR APPROVED DESIGN SECTION.
- ALL PIPE JOINTS ARE TO BE INSPECTED BY A REPRESENTATIVE OF THE ENGINEER PRIOR TO BACKFILLING. ALL INSPECTIONS SHOULD BE ARRANGED NO LESS THAN 24 HOURS IN ADVANCE.
- LOCATIONS OF DRAINAGE STRUCTURES SHALL GOVERN AND PIPE LENGTHS MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.
- ALL PROPOSED ELEVATIONS SHOWN HEREON REFER TO N.G.V.D. 1929. IT SHALL BE CONTRACTORS RESPONSIBILITY TO VERIFY EXISTING GRADES AND DATUM WITH SURVEYOR REGARDLESS IF SHOWN OR NOT ON CIVIL PLANS.
- ALL SIGNING AND PAVEMENT MARKING SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND PALM BEACH COUNTY TYP. DWG. NO. T-P-06-001.
- THE CONTRACTOR SHALL CALL GUNSHINE 811 TOLL FREE, 48 HOURS BEFORE DIGGING FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH SEACOAST UTILITY STANDARDS.
- CONTRACTOR SHALL COORDINATE AND VERIFY ALL ADA ACCESS WAY SLOPES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY LOCATIONS WHERE SLOPES DO NOT MEET ADA REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE & PROVIDE AS BUILTS AND NECESSARY EASEMENT DESCRIPTIONS AT ALL NEW UTILITY INSTALLATIONS, PREPARED BY A FLORIDA REGISTERED SURVEYER.
- ALL WORK PERFORMED BY THE GENERAL CONTRACTOR SHALL BE SUBMITTED ON RECORD DRAWINGS PREPARED BY A FLORIDA REGISTERED SURVEYOR TO THE SATISFACTION OF THE GOVERNING AGENCIES.
- ALL LIMEROCK AND BASE MATERIALS SHALL BE REMOVED FROM THE PLANTER AREAS/ISLANDS AND REPLACED WITH APPROPRIATE PLANTING SOIL PRIOR TO LANDSCAPING OF THE SITE.
- PROVIDE FILTER CLOTH WRAP OF ALL PIPE JOINTS OUTSIDE OF EXFILTRATION TRENCH.
- CONTRACTOR & FIRE SPINKLER ENGINEER SHALL VERIFY FDC & DDCV LOCATIONS WITH FIRE MARSHAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PREPARE/MAINTAIN REPORTS FOR NPDES COMPLIANCE. REPORTS PREPARED BY CERTIFIED FDEP NPDES INSPECTOR IN COMPLIANCE W/ FILED SURFACE WATER POLLUTION PREVENTION PLAN.
- CONTRACTOR SHALL NOTIFY NPDES INSPECTOR OF RAINFALLS EQUAL OR GREATER THAN 1/2" AT SITE.

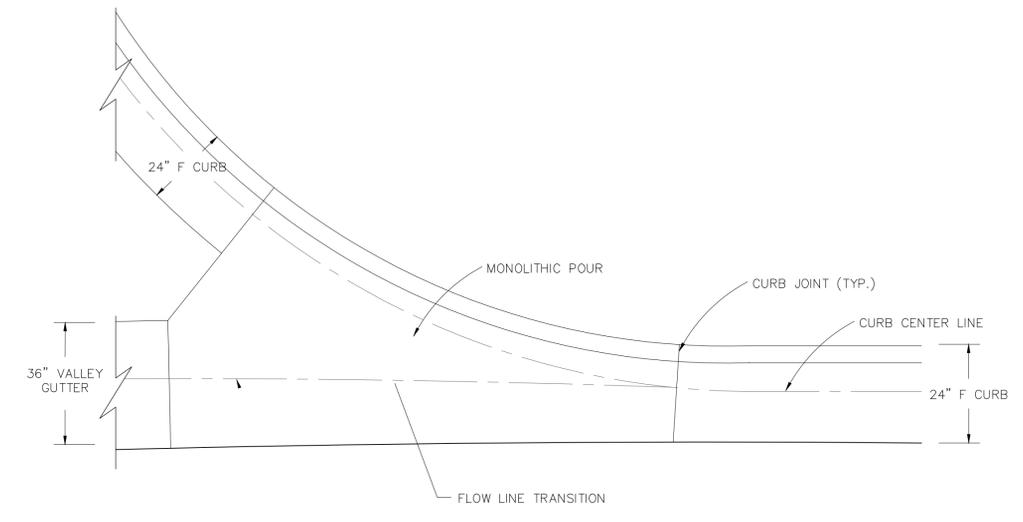
CLEARING AND GRUBBING

- WORK SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL BUILDINGS, TIMBER, BRUSH, STUMPS, ROOTS, RUBBISH AND DEBRIS AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND AND THE SURFACE OF EXCAVATED AREAS, AND OF ALL OTHER STRUCTURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED, INCLUDING SEPTIC TANKS, BUILDING FOUNDATIONS AND PIPES.
- ROOTS AND OTHER DEBRIS SHALL BE REMOVED TO A DEPTH OF AT LEAST ONE FOOT BELOW THE GROUND SURFACE. ALL STUMPS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- EXISTING TREES TO REMAIN WHERE SO DIRECTED BY THE ENGINEER, SHALL BE TRIMMED, PROTECTED AND LEFT STANDING.
- PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS, DRAINS, WATER OR GAS PIPES, CONDUITS, POLES, WALLS, POSTS, BRIDGES, ETC. ARE TO BE CAREFULLY PROTECTED FROM INJURY AND ARE NOT TO BE DISPLACED.
- CLEARING AND GRUBBING MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR IN LOCATIONS AND BY METHODS APPROVED BY THE ENGINEER.
- EXISTING DITCH TO BE FILLED, SHALL BE STRIPPED OF ALL SILT/ ORGANICS PRIOR TO PLACEMENT OF CLEAN FILL MATERIAL. FILL TO BE PLACED IN MAXIMUM ONE FOOT LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY PER AASHTO T-180.
- IF MUCK IS ENCOUNTERED, IT SHALL BE COMPLETELY REMOVED FROM THE CENTERLINE, A DISTANCE OF 10 FEET BEYOND THE EDGE OF PAVEMENT EACH SIDE.



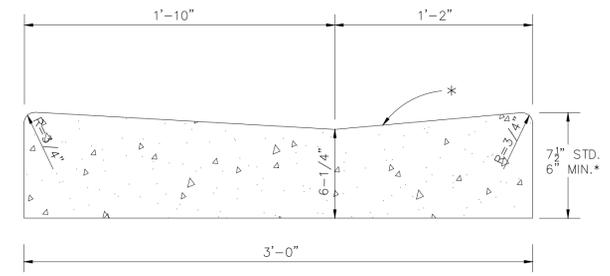
TYPE "F" CONCRETE CURB & GUTTER

SCALE: 2:1



PLAN VIEW

NTS

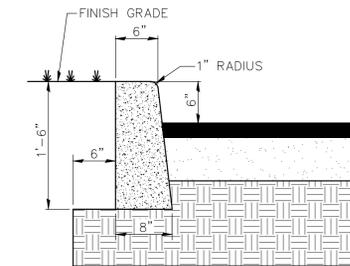


36" VALLEY GUTTER

SCALE: 2" = 1'-0"

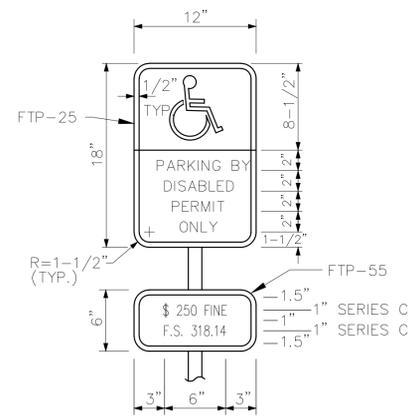
* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

F CURB TO 36" VALLEY GUTTER TRANSITION DETAIL



6" X 18" CONCRETE CURB

SCALE: 1" = 1'



Notes: Sign FTP-20-04

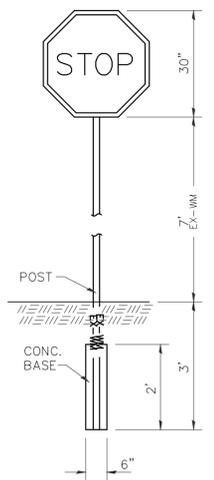
- All letters are 1" Series "C".
- Top portion of sign shall have a reflectorized blue background with white reflectorized legend & border.
- Bottom portion of sign shall have a reflectorized white background with black opaque legend & border.

Notes: Sign FTP-22-04

- All letters are 1" Series "C".
- Background white, legend and border black.

HANDICAP SIGN

SCALE: NONE



TYPICAL STOP SIGN

N.T.S.

STEEL FLANGED CHANNEL POST WITH BAKED GREEN ALKYD PER A.S.T.M. - A123 WITHOUT ANCHOR PLATES. SEE DETAIL THIS SHEET.
2,000 PSI AS SHOWN (CONCRETE BASE).
R1-1 MUTCD - 30" X 30" (HIGH INTENSITY).

SMILEY & ASSOCIATES, Inc.
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www.smiley-associates.com
EB # 0613

MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
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REV.	DESCRIPTION	APRV.	DATE

REVISION NOTES

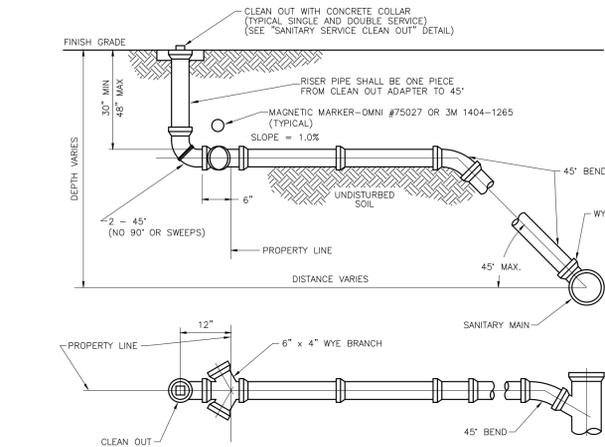
SPACEBOX LAKE PARK
FOR
SPACEBOX LAKE PARK, LLC
LAKE PARK, FLORIDA

PAVING, GRADING & DRAINAGE DETAILS

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

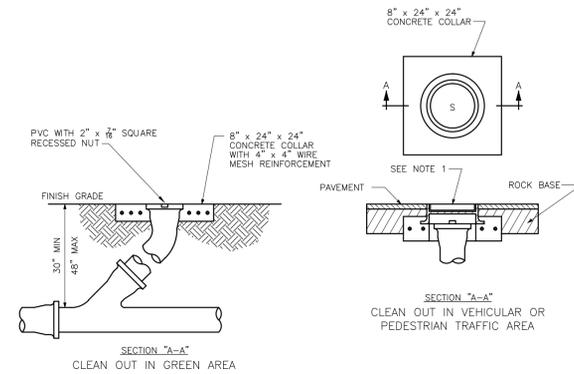
8/8/16

C6
SHEET TYPE
SHEET 6 OF 10
JOB # 16-005



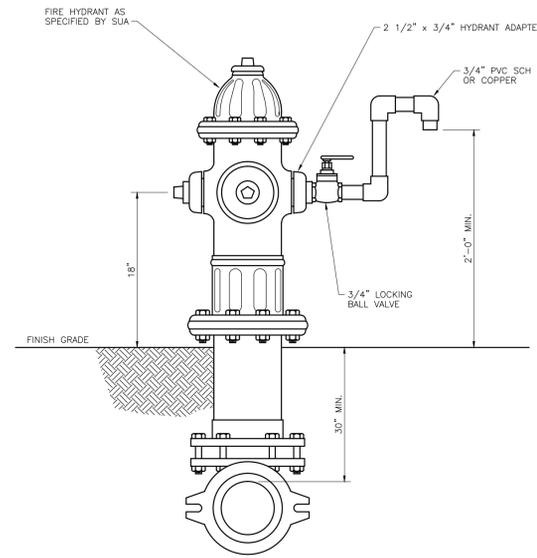
- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2" x 2" TREATED WOOD STAKE AND AN E.M.S. SANITARY SEWER MARKER.
 2. EACH SERVICE CONNECTION SHALL BE PLUGGED WATERTIGHT WITH AN APPROVED CAP OR PLUG.
 3. CUT OFF BELL END WHEN USING FERROD COUPLING FOR VCP (FOR EXISTING SERVICES ONLY).
 4. FOR PVC INSTALLATIONS, CONNECT TO EXISTING "BELL END" AND CONNECT OPPOSITE END WITH PVC TO PVC KNOCK ON SLEEVE.
 5. SOLIDLY TAMP BACKFILL AT LEAST ONE FOOT ABOVE TOP OF PIPE. SERVICES UNDER PAVED AREAS SHALL BE BACKFILLED TO THE SAME SPECIFICATIONS AS SHOWN ON "PAVEMENT REPLACEMENT" DETAIL.
 6. CONTRACTOR SHALL MARK ON A CLEAN SET OF PLANS THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE TO EACH SERVICE LATERAL AND GIVE TO ENGINEER FOR RECORD DRAWING PURPOSES.
 7. ANY DEVIATION FROM THESE METHODS MUST BE APPROVED BY SUA.
 8. THE USE OF UNNECESSARY FITTINGS ON THE CUSTOMERS LINE TO REDUCE EXCAVATION EFFORTS WILL BE CAUSE FOR REJECTION.
 9. THE USE OF 90° SWEEPS ON THE CUSTOMERS LINE IN LIEU OF 45° BENDS WILL REQUIRE AN ADDITIONAL CLEAN OUT AS SHOWN ON "SANITARY SERVICE CLEAN OUT DETAIL". THE CLEAN OUT SHALL BE ON THE HOUSE SIDE OF THE TOP SWEEP WITHIN 2' OF THE SWEEP.

Sewer Service Connection (Wye Branch)
June 24, 2015 (Rev A-15)



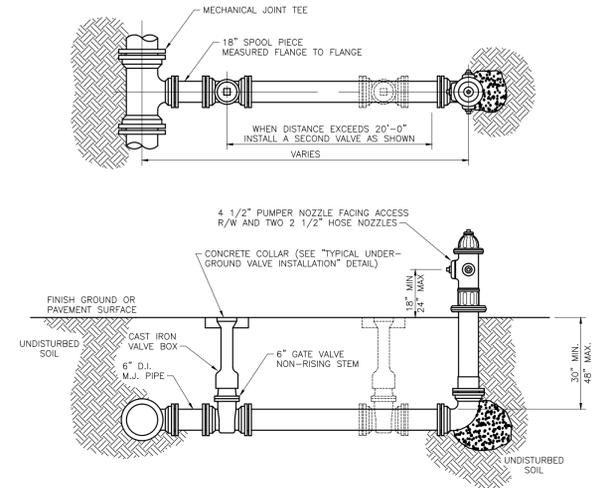
- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. U.S. FOUNDRY NO. 7621 REVERSIBLE HANDHOLE RING AND COVER OR APPROVED EQUAL SHALL BE USED, COVER TO BE CAST WITH "S" IN THE CENTER.
 2. CLEAN OUT REQUIRED ON ALL SERVICES AT PROPERTY LINE OR EASEMENT LINE WHERE APPLICABLE.
 3. STANDARD WYE SHALL BE USED AT CLEAN OUT.

Sanitary Service Clean Out
June 24, 2015 (Rev A-15)



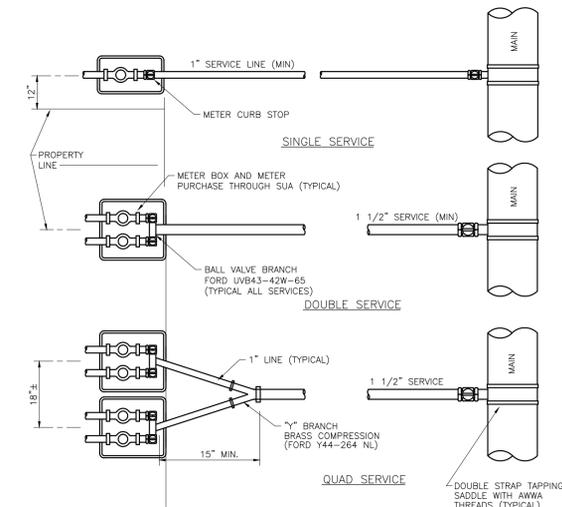
PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Sample Point - Fire Hydrant
June 24, 2015 (Rev A-15)



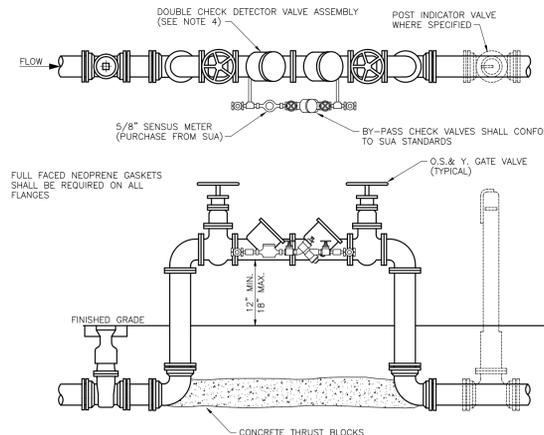
- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. DRAINS OR WEEP HOLES ON HYDRANT BARREL SHALL BE PLUGGED.
 2. FIRE HYDRANT SHALL BE INSTALLED PLUMB AND TRUE.
 3. THRUST BLOCKS TO REST IN UNDISTURBED SOIL.
 4. REFER TO EXHIBIT "D" SHOP SPECIFICATION LIST FOR ACCEPTABLE FIRE HYDRANTS.
 5. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
B) THE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

Typical Fire Hydrant Installation
June 24, 2015 (Rev A-15)



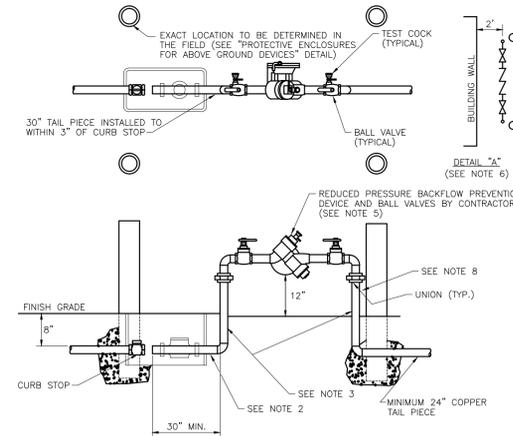
- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. AUTHORIZED SERVICE LINE MATERIAL:
A) TYPE "K" COPPER TUBING WITH COMPRESSION FITTINGS.
B) POLYETHYLENE TUBING SDR 9, COPPER TUBE SIZE.
 2. METER CURB STOP SHALL BE 1" MINIMUM.
 3. 1" METER CURB STOPS WITH 3/4" VALVES SHALL NOT BE PERMITTED.
 4. MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" IN DIAMETER SHALL BE HANDLED ON AN INDIVIDUAL BASIS.
 5. METER CURB STOPS 1 1/2" AND 2" IN SIZE SHALL BE PROVIDED WITH BOTH A LOCKING CAP AND METER FLANGE.
 6. NO FITTINGS BETWEEN CORP STOP AND METER CURB STOP ALLOWED WHEN USING POLYETHYLENE TUBING.

Typical Water Service
June 24, 2015 (Rev A-15)



- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. MECHANICAL JOINT FITTINGS SHALL BE REQUIRED UNDERGROUND AND FLANGED FITTINGS FOR ABOVE GROUND USE, NO UNFLANGES PERMITTED.
 2. PAINT THE ABOVE GROUND ASSEMBLY, INCLUDING ENTIRE LENGTH OF THE RODS, IN ACCORDANCE WITH SUA CONSTRUCTION STANDARD SECTION II, ITEM 7, AFTER MANUFACTURERS RECOMMENDED SURFACE PREP IS COMPLETED. DO NOT PAINT OVER NAME/SERIAL PLATE, STAINLESS STEEL OR BRASS FITTINGS.
 3. WHEN PROTECTIVE PIPE STANCHIONS OR A SCREEN WALL IS REQUIRED, SEE "PROTECTIVE ENCLOSURES FOR ABOVE GROUND DEVICES" DETAIL.
 4. APPROVED DOUBLE CHECK DETECTOR VALVE ASSEMBLIES WITH SILICONE RUBBER SEAL RINGS OR DISKS:
A.) AMES MODEL 3000 SSR
B.) AMES MODEL 3000 SSR
C.) WATTS MODEL 774 DCDA SERIES 994
 5. SPECIAL FIRE PROTECTION SYSTEMS USING INTERNAL PUMPS, TANKS, ETC. SHALL BE REQUIRED TO USE AN SUA APPROVED REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY.
 6. ALL TEST PORTS SHALL BE PLUGGED WITH BRASS PLUGS.
 7. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
A) APPROVED MECHANICAL JOINT RESTRAINT (i.e. MEGALUG)
B) THE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

Above Ground Fireline
June 24, 2015 (Rev A-15)



- NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
1. TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
 - IF THIS DISTANCE IS LESS THAN 6 FEET ONLY COPPER TUBING SHALL BE PERMITTED.
 3. BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.
 4. 1 1/2" AND 2" METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.
 5. APPROVED BACKFLOW PREVENTION DEVICES WITH SILICONE RUBBER SEAL RINGS OR DISKS:
A.) WATTS MODEL LF919 3/4" TO 2"
B.) AMES MODEL LF4008B 3/4" TO 2"
C.) WILKINS 975 XL2 3/4" TO 2"
 6. WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MINIMUM OF 2" BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
 7. BACKFLOW PREVENTION DEVICE SHALL BE EQUIPPED WITH BALL VALVES.
 8. BACKFLOW PREVENTION DEVICE SHALL BE SUPPORTED AT BOTH RISERS WITH A MINIMUM OF 2 - 18" STAINLESS STEEL UNISTRUTS. RISERS TO BE SECURED TO UNISTRUT WITH 304 STAINLESS STEEL MOUNTING HARDWARE AND 1/2" NEOPRENE INSULATORS BETWEEN ALL DISSIMILAR METALS.
 9. BACKFLOW DEVICES SHALL BE A MINIMUM OF 3" FROM BACK OF CURB.

Water Meter and Backflow Device - 3/4" to 2"
June 24, 2015 (Rev A-15)

- INSTALLATION PROTOCOL
1. All pipe is to be laid in a clean dry trench.
 2. All muck and unsuitable materials encountered in trench bottom shall be removed and replaced with compacted granular material to 98% of maximum density per AASHTO T-180. Proctor and density test results shall be submitted to EOR with a copy to Authority.
 3. All backfill shall be placed in 12 inch lifts and compacted by mechanical means to 98% of maximum density per AASHTO T-180 or as otherwise required by the permitting agency.
 4. Utilities crossing road right-of-way shall be installed prior to road construction and backfilled and compacted within right-of-way limits in strict accordance with the directions of the EOR and requirements of all agencies of jurisdiction.
 5. Embedment materials below pipe shall conform to Unified Soil Classification System (U.S.C.S.) Soil Classification Class I or II as noted in ASTM D2321.
 6. All lines under construction shall be plugged with a wing plug, and all pressure pipes are to be plugged with a mechanical plug or cap at the end of the working day to prevent ground water and potential contaminants from entering completed lines and lines under construction.
 7. Above ground piping, including but not limited to, aerial crossings, lift station piping, fire lines, meter/backflow prevention device assemblies, etc. shall be flanged and be coated in the following manner:
a. Blast clean and remove all paint and any loose material in accordance with NADP 500-3, Blasting Cleaning shall be performed using non-silica media. Paint all exterior ferrous metal surfaces. The manufacturer's recommendations for surface preparation, priming, recoating, etc. shall be strictly followed. Do not paint or coat any nonplates, brass or stainless steel surfaces. Contractor shall use the following paint system or approved equal.
TNEMC
a. Primer: TNEMC-MODIFIED POLYAMIDODAMINE EPOXY #135 (3.0 to 5.0 mils DFT) aluminum color
b. Intermediate Coat: TNEMC-MODIFIED POLYAMIDODAMINE EPOXY (3.0 to 5.0 mils DFT) off white color
c. Finish Coat: Series 1074 Endura-Shield, DFT.
The finished coat of paint shall be green in color for sanitary sewer, lavender for reclaimed appearances and blue for potable water appearances.
 8. All flanged pipe shall be caulked between each flange and threads with Sika 1 A urethane caulk.
 9. All tie rods, bolts, nuts, etc. installed underground must be Cor Ten and shall be painted with Koppers 300-M or an Authority approved equal. All steel hardware shall be stainless steel hardware is exempt from this requirement.
 10. Coatings and linings damaged due to mishandling or otherwise, must be replaced. Coating and linings damaged due to field cutting shall be repaired in strict accordance with the manufacturer's recommendations. This includes, but is not limited to, cement mortar and polyethylene pipe linings. Protecto 401, galvanized coatings and other paint type coatings. Specific approval must be obtained from Authority prior to performing coating and lining repairs. The Authority will require inspections of all repairs.
 11. All stainless steel nuts, bolts and hardware referenced in these standards, shall be SS 316 grade and shall be so stamped by the manufacturer to verify alloy. The use of any other stainless steel alloy will require specific approval by Authority. In general, stainless steel nuts, bolts and hardware are required in and around lift stations and for facilities installed over or under brackish or marine waters. This requirement applies to flange bolts and nuts on flanged piping, mounting brackets, all thread rod, anchor bolts, washers, clamps and other miscellaneous hardware. Anti-galling compound anti-seize lubricant shall be applied to the threads of all stainless steel bolts prior to installation.
Anti-seize lubricant shall be graphite 50 anti-seize by Loctite Corporation, 1000 anti-seize paste by Dow Corning, 3M Lube and anti-seize by 3M.
 12. All rubber and synthetic elastomeric components of products that come in contact with potable water shall be manufactured with chlorine resistant elastomers and shall bear NSF approval.
 13. All main, including fittings, shall be easily identifiable as to their contents and shall be color coded or marked using the universal color code of blue for water, green for sewer and lavender for reclaimed. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape is used to stripe pipe during installation of the pipe, the tape shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe for pipes with an internal diameter of 24 inches or greater, tape shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.

Installation Protocol
June 24, 2015 (Rev A-15)



MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK C. SMILEY, P.E.
ON 8/8/16 USING A SHA-1 AUTHENTICATION CODE.
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REV.	DESCRIPTION	APRV.	DATE

SPACEBOX LAKE PARK
FOR
SPACEBOX LAKE PARK, LLC
LAKE PARK, FLORIDA

WATER & SEWER DETAILS

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

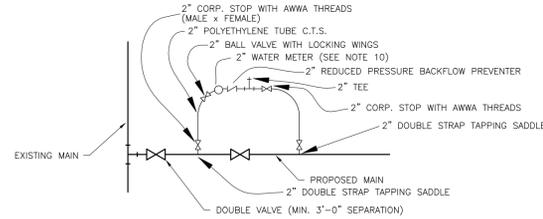
C9
SHEET TYPE
SHEET 9 OF 10
JOB # 16-005

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. THIS METHOD SHALL BE COMPLIED WITH WHEN CONNECTING TO AN EXISTING WATER MAIN, (ONE THAT HAS ALREADY BEEN BACTERIOLOGICALLY CLEARED OR IS IN USE) WHETHER BY TEE AND VALVE OR BY CONTINUATION OF A PLUGGED STUB OUT WITH AN EXISTING GATE VALVE.
2. THESE REQUIREMENTS ARE BASED ON PALM BEACH COUNTY HEALTH DEPARTMENT REQUIREMENTS.
3. WHEN A TAPPING TEE AND VALVE IS INSTALLED, A PRESSURE/LEAKAGE TEST SHALL BE PERFORMED ON THE ASSEMBLY IN THE PRESENCE OF AN AUTHORIZED SUA REPRESENTATIVE PRIOR TO PERFORMING THE ACTUAL TAP.
4. ALL TAPS ON PIPE SIX (6) INCH IN DIAMETER AND LARGER SHALL BE INSTALLED AT THE CENTER/MIDDLE OF A LENGTH OF PIPE.
5. DOUBLE VALVING PERMITS PHYSICAL CONNECTION TO AN EXISTING WATER MAIN WHEN USED IN CONJUNCTION WITH A BYPASS LINE.
6. A 2" BYPASS LINE (MAXIMUM) SHALL BE INSTALLED AS SHOWN BELOW PRIOR TO CANNON FLUSHING.
7. THE 2" TEE SHALL BE USED FOR FEEDING CHLORINE SOLUTION AND FOR ATMOSPHERIC VENT DURING PRESSURE/LEAKAGE TESTS.
8. UNDER NO CIRCUMSTANCES SHALL VALVES BE OPERATED WITHOUT AN AUTHORIZED SUA REPRESENTATIVE PRESENT.
9. ALL WATER MAINS SHALL BE FILLED WITH WATER UTILIZING JUMPER METER AND THEN BE THOROUGHLY CANNON FLUSHED IN ACCORDANCE WITH SEACOAST SPECIFICATIONS PRIOR TO PRESSURE/LEAKAGE TESTING. THE PROCEDURE SHALL BE DONE ONLY IN THE PRESENCE OF AN AUTHORIZED SUA REPRESENTATIVE.
10. FOLLOWING INITIAL CANNON FLUSHING, ALL WATER FOR PRESSURE/LEAKAGE TESTING AND BACTERIOLOGICAL CLEARANCES MUST BE DRAWN FROM THE BYPASS LINE WITH METER AND REDUCED PRESSURE BACKFLOW PREVENTER IN PLACE. THE 2" INCH WATER METER SHALL BE PROVIDED BY SUA UPON APPLICATION BY EITHER THE CONTRACTOR OR DEVELOPER. ALL WATER USED FOR THE CONSTRUCTION OF THE WATER AND SEWER MAINS SHALL BE PAID FOR BY THE ABOVE PARTIES PRIOR TO ANY SERVICE BEING PROVIDED. METER, BALL VALVE, REDUCED PRESSURE BACKFLOW PREVENTER AND TEE SHALL BE INSTALLED AT LEAST 18" ABOVE EXISTING GRADE, SUPPORTED, AND PROTECTED FROM DAMAGE. ANY DAMAGE SHALL BE APPLICANT'S RESPONSIBILITY AND SHALL BE CHARGED ACCORDINGLY.
11. EXCEPT DURING CANNON FLUSHING VALVES SHALL NOT BE OPENED UNTIL AFTER AN APPROVED PRESSURE/ LEAKAGE TEST, BACTERIOLOGICAL CLEARANCE, CERTIFICATION BY THE ENGINEER OF RECORD, RELEASE FROM THE PALM BEACH COUNTY HEALTH DEPARTMENT AND APPROVAL BY SUA.
12. DISINFECTION AND BACTERIOLOGICAL CLEARANCES SHALL COMPLY WITH CURRENT AWWA PROCEDURES, PALM BEACH COUNTY HEALTH DEPARTMENT, AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.

STANDARD WATER, RECLAIMED WATER AND SEWER SEPARATION STATEMENT

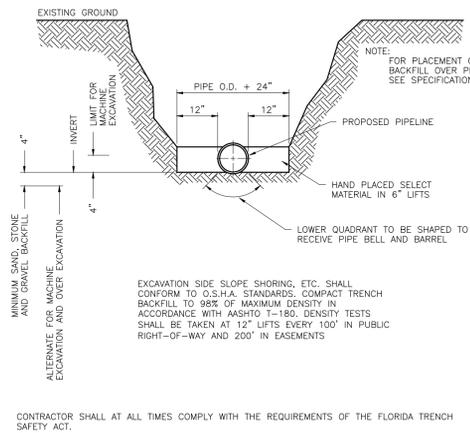
1. STORM SEWER, GRAVITY WASTEWATER, FORCE MAINS AND RECLAIMED WATER MAINS CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED BETWEEN GRAVITY SEWER OR STORM SEWER, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/GRAVITY SEWER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN SIX (6) FEET BETWEEN ANY TWO JOINTS. BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE SIX (6) FEET BETWEEN THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/FORCE MAIN/RECLAIMED WATER MAINS CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM TWELVE (12) INCH VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. IRRESPECTIVE OF SEPARATION, IN ALL OF THE ABOVE CASES D.I.P. IS NOT REQUIRED FOR STORM SEWER PIPE.
2. FORCE MAINS CROSSING RECLAIMED WATER MAINS OR STORM SEWER SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE OUTSIDE OF THE RECLAIMED WATER MAIN OR STORM SEWER AND THE RECLAIMED WATER MAIN SHALL CROSS OVER THE FORCE MAIN.
3. AT THE UTILITY CROSSING DESCRIBED IN ITEMS 1 AND 2 ABOVE, ONE FULL LENGTH OF DUCTILE IRON WATER MAIN PIPE SHALL BE CENTERED SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE JOINTS. WHERE THIS IS NOT POSSIBLE, JOINTS SHALL BE AT LEAST THREE (3) FEET FROM STORM SEWERS AND SIX (6) FEET FROM GRAVITY SEWER MAINS, FORCE MAINS AND RECLAIMED WATER MAINS.
4. SEWER SERVICE LATERALS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM VERTICAL SEPARATION OF TWELVE (12) INCHES. IF 12" VERTICAL SEPARATION CANNOT BE MAINTAINED, THEN THE WATER MAIN SHALL BE D.I.P. AND THE SEWER SERVICE LATERAL SHALL BE C-900 SDR 18 OR BETTER AND THE MINIMUM SEPARATION SHALL BE SIX (6) INCHES. WHEN IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER THE SEWER SERVICE LATERAL A MINIMUM VERTICAL SEPARATION OF AT LEAST TWELVE (12) INCHES MUST BE MAINTAINED, THE WATER MAIN SHALL BE D.I.P. AND THE SEWER LATERAL SHALL BE C-900 SDR 18 OR BETTER.
5. MAINTAIN MINIMUM TEN (10) FEET HORIZONTAL DISTANCE BETWEEN POTABLE WATER MAIN OR FORCE MAIN, RECLAIMED WATER MAIN, STORM SEWER OR GRAVITY SEWER MAIN OR ON SITE SEWAGE DISPOSAL SYSTEMS. ADDITIONAL SEPARATION MAY BE REQUIRED AS OUTLINED IN SECTION II OF SUA STANDARDS.



Tapping and Main Clearing Procedure

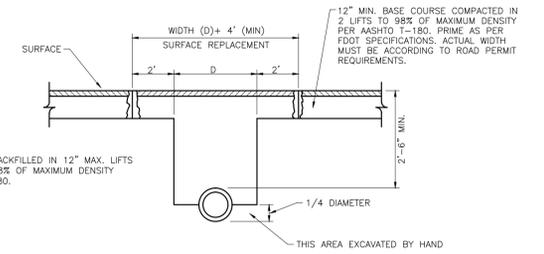
June 24, 2015 (Rev A-15)

(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)



Standard Trenching Procedure

June 24, 2015 (Rev A-15)



TRENCH TO BE BACKFILLED IN 12" MAX. LIFTS COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. REPLACED BASE MATERIAL OVER DITCH SHALL BE A MINIMUM OF TWICE THE THICKNESS OF THE ORIGINAL BASE.
2. BASE MATERIAL SHALL BE PLACED IN A MINIMUM OF 2 LIFTS AND THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWS.
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH EXISTING SURFACE, WITH ASPHALT A MINIMUM OF 2" THICK.
5. A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN FOR EACH SIX (6") INCH LIFT OF SUBGRADE AND EACH OPEN CUT CROSSING. ROAD CROSSINGS GREATER THAN 24 FEET IN WIDTH SHALL REQUIRE ONE ADDITIONAL TEST SITE FOR EACH ADDITIONAL 12 FEET OF PAVEMENT. WHEN THE SPECIFIED COMPACTED BASE IS GREATER THAN SIX AND ONE-HALF (6 1/2") INCHES, THE BASE SHALL BE CONSTRUCTED IN TWO OR MORE COURSES. PROCTORS FOR MATERIALS USED IN BACKFILLING SHALL BE OBTAINED BY A CERTIFIED LABORATORY. DENSITY TESTS SHALL BE CONDUCTED BY A CERTIFIED LABORATORY. THE PERCENTAGE OF MAXIMUM DENSITY REQUIRED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE TIME THE PERMIT WAS ISSUED. ALL DENSITY TESTS SHALL BE COMPLETED AND ACCEPTED ON EACH LAYER PRIOR TO ADDITIONAL BACKFILLING. A COPY OF ALL COMPLETED AND ACCEPTED DENSITY TESTS SHALL BE FURNISHED TO SUA UPON REQUEST. BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY PER AASHTO T-180.
6. ANY DAMAGE TO TRAFFIC SIGNALIZATION EQUIPMENT SHALL BE REPAIRED BY THE PALM BEACH TRAFFIC DIVISION AT THE CONTRACTORS EXPENSE.
7. THESE SPECIFICATIONS MAY BE SUPERSEDED BY THE PERMITTING AGENCY.
8. TEMPORARY ASPHALT OR CONCRETE PATCH MUST BE APPLIED THE SAME DAY AS THE BACKFILL.
9. TRAFFIC AREAS OR WHERE SAFETY TO THE PUBLIC IS AT ISSUE A TEMPORARY ASPHALT OR CONCRETE PATCH MUST BE IMMEDIATELY PLACED.

Pavement Replacement

June 24, 2015 (Rev A-15)

Water, Reclaimed Water and Sewer Separation Statement

June 24, 2015 (Rev A-15)

PUSH ON JOINT PIPE RESTRAINT REQUIREMENTS AT FITTINGS, VALVES AND DEAD ENDS

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	REDUCER	VALVE	DEAD END	TEE
4"	54'	54'	36'	36'	54'	72'	72'	72'
6"	54'	54'	36'	36'	54'	72'	72'	72'
8"	54'	54'	36'	36'	54'	72'	72'	72'
10"	54'	54'	36'	36'	54'	108'	108'	108'
12"	72'	72'	54'	54'	72'	108'	108'	108'
14"	72'	72'	54'	54'	72'	108'	108'	108'
16"	72'	72'	54'	54'	72'	154'	154'	154'
18"	72'	72'	54'	54'	72'	154'	154'	154'
20"	90'	90'	54'	54'	90'	154'	154'	154'
24"	90'	90'	54'	54'	90'	172'	172'	172'
30"	90'	90'	54'	54'	90'	180'	180'	180'
36"	90'	90'	54'	54'	90'	270'	270'	270'
42"	108'	108'	54'	54'	108'	270'	270'	270'
48"	108'	108'	54'	54'	108'	270'	270'	270'
54"	108'	108'	54'	54'	108'	270'	270'	270'

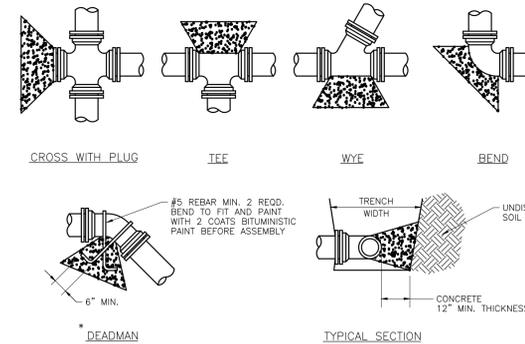
MINIMUM LENGTH OF PUSH ON JOINT PIPE WITH SPECIAL RESTRAINING GASKETS

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. ALL BURIED PRESSURE MAINS SHALL INCLUDE A RESTRAINED JOINT SYSTEM. THE CONTRACTOR SHALL USE A DUCTILE IRON RESTRAINING SYSTEM AS MANUFACTURED BY EBAA IRON, INC. (MEGALUG) OR APPROVED EQUAL FOR ALL MECHANICAL JOINT FITTINGS AND LOCKING GASKETS FOR PUSH-ON JOINT PIPE.
2. RESTRAINING LENGTHS SHOWN ARE THE MINIMUM LENGTH REQUIRED BASED ON A TEST PRESSURE OF 150 P.S.I.G. WITH A MINIMUM COVER OF 30".
3. THRUST BLOCKS, IN ADDITION TO THE ABOVE OUTLINED RESTRAINTS, SHALL ALSO BE REQUIRED AT ALL TEES TO EXISTING LINES, ALL TAPPING TEES ON EXISTING LINES, ALL NEW HYDRANTS, ALL ABOVE-GROUND ASSEMBLIES 3" AND LARGER AND MAINS GREATER THAN 12" IN DIAMETER.
4. IF LENGTH BETWEEN MECHANICAL JOINT FITTINGS AND/OR VALVES IS LESS THAN THE MINIMUM LENGTHS SHOWN IN THIS TABLE, THE CONTRACTOR SHALL RESTRAIN THE ENTIRE LENGTH.

Pipe Restraint Table

June 24, 2015 (Rev A-15)



ALL THRUST BLOCKS SHALL BE FORMED, LAID FORMS SHALL BE INSPECTED BY SUA PRIOR TO THE POURING OF CONCRETE AND SHALL ALSO BE INSPECTED BY SUA PRIOR TO COVER-INC. TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REINFORCEMENTS (THRUST) BLOCKS, FOR PRESSURE MAINS FOUR INCHES (4") AND GREATER CONCRETE SHALL HAVE 2500 P.S.I. MINIMUM STRENGTH AT TWENTY EIGHT (28) DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS. AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAXIMUM PRESSURE IN PIPE, AND BEARING CAPACITY OF SOIL. PROTECT FITTINGS, BOLTS, ETC. BY COVERING WITH VISQUEUR OR OTHER ACCEPTABLE MATERIAL. CONCRETE SHALL BE A MINIMUM OF TWELVE INCHES (12") THICK.

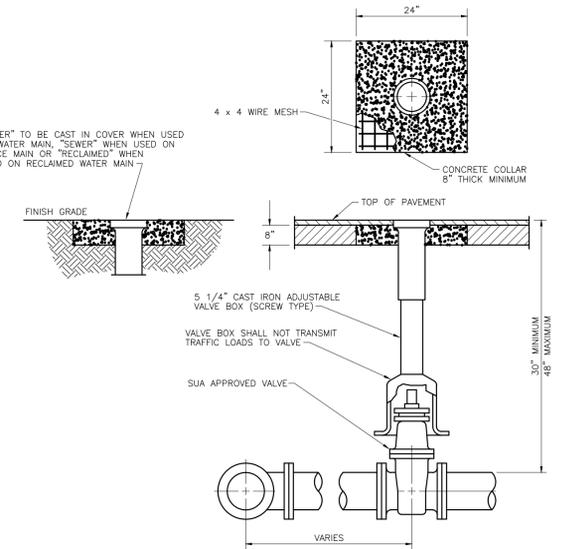
(PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	PIPE	THRUST BLOCK SOIL BEARING AREA REQUIRED	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BEND, BASED ON 2000 P.S.F. SAFE BEARING LOAD AND PIPE PRESSURE OF 150 P.S.I. PLUS 13% SAFETY FACTOR FOR OTHER SOILS AND PRESSURES.
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.0 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

* THE ENGINEER OF RECORD SHALL CALCULATE THE SIZE OF THE DEADMAN REQUIRED AS WELL AS ANY INSTALLATION WHICH IS NOT COVERED BY THE ABOVE.

Thrust Blocks

June 24, 2015 (Rev A-15)



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. CONCRETE COLLAR MAY NOT BE REQUIRED IN PAVED AREAS IF PAVEMENT SURFACE IS FINISHED PRIOR TO FINAL INSPECTION AND VALVE BOX LID IS AT FINISHED GRADE.
2. WHEN VALVE IS DEEPER THAN 48" AN EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT TO 24" OF FINISHED GRADE.
3. TWO OF THE FOLLOWING FORMS OF RESTRAINT SHALL BE USED WHEN PIPE IS GREATER THAN 12".
 - A) APPROVED MECHANICAL JOINT RESTRAINT (I.E. MEGALUG)
 - B) THE RODS AND NUTS EQUAL IN DIA. TO TEE BOLTS AND NUTS, COATED WITH KOP-COAT 300-M OR APPROVED EQUAL.

Typical Underground Valve Installation

June 24, 2015 (Rev A-15)

SMILEY & ASSOCIATES, INC.
 1928 COMMERCE LANE, SUITE 2, JUPITER, FLORIDA 33458
 561-747-8335 • msmiley@smiley-associates.com
 EB # 6613

MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
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REV.	DESCRIPTION	APRV.	DATE
REVISION NOTES			

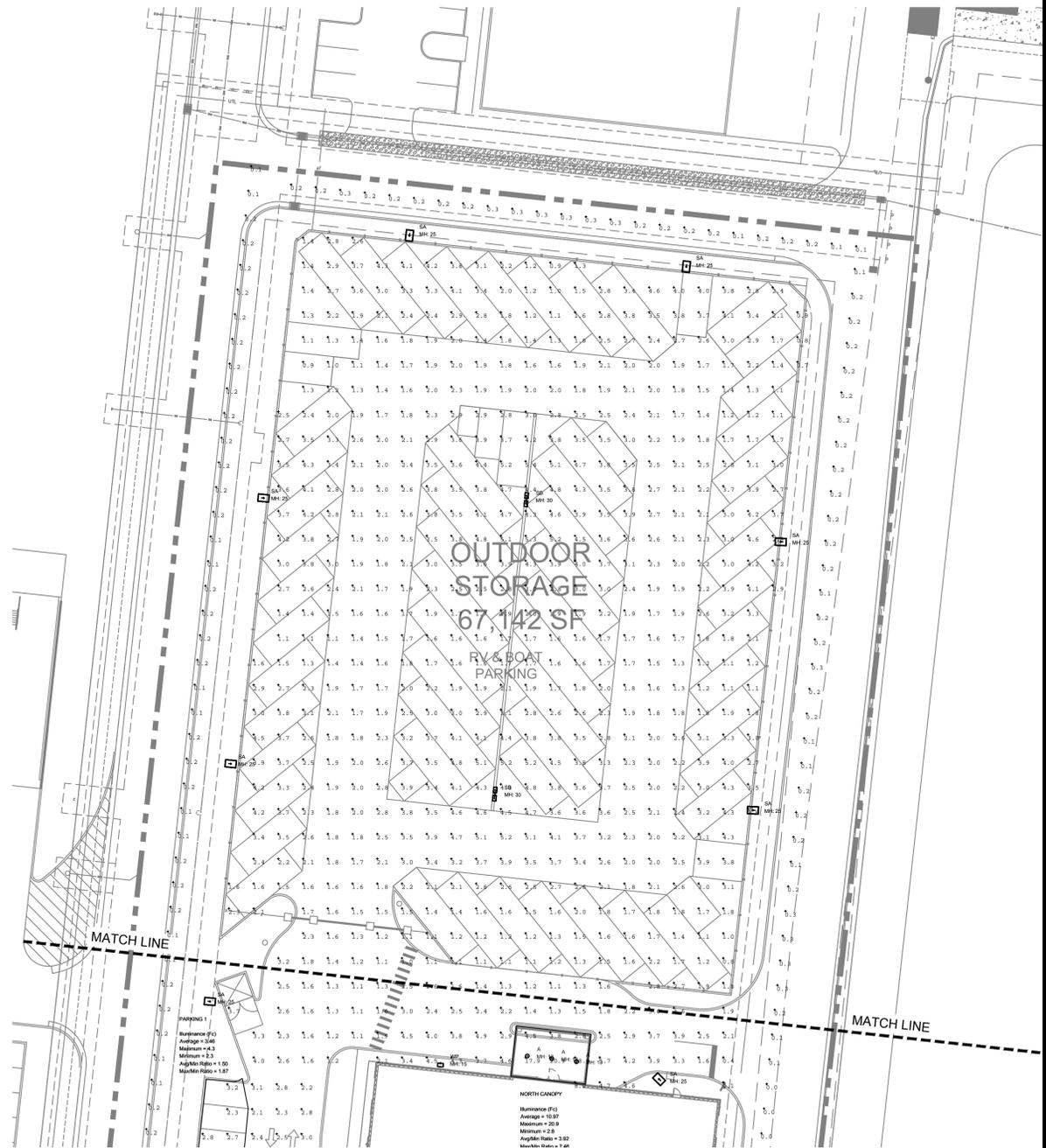
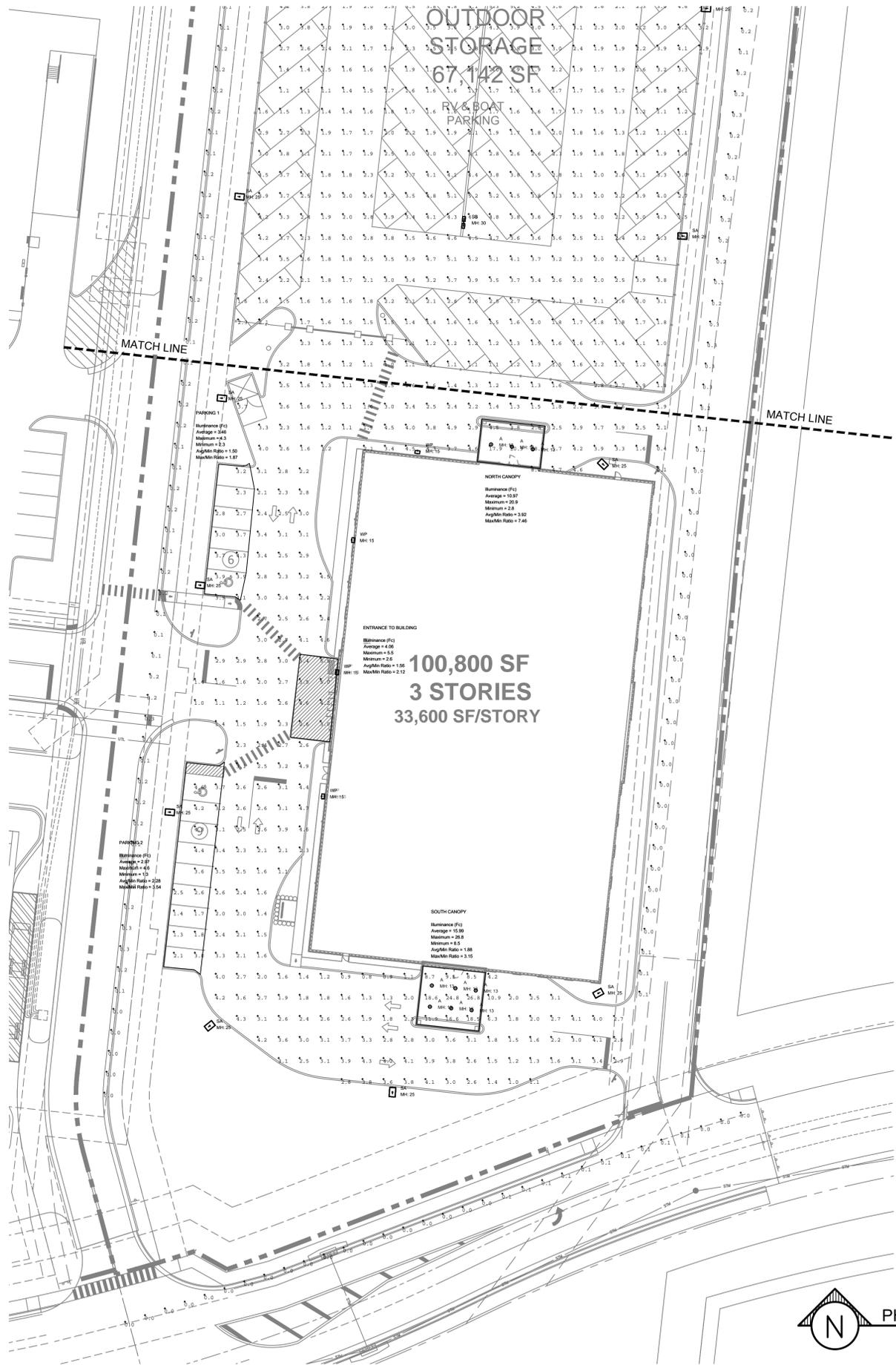
SPACEBOX LAKE PARK
 FOR
SPACEBOX LAKE PARK, LLC
 LAKE PARK, FLORIDA

WATER & SEWER DETAILS

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

C10
 SHEET TYPE
SHEET 10 OF 10
 JOB # 16-005



Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Lum. Watts	Arr. Watts
WP	4	WP	SINGLE	N.A.	0.950	CREE CAT # SEC-EDG-4M...06-D-UL-700-40K or BXSE_408D-U07 (700mA)	133	133
SA	13	SA	SINGLE	N.A.	0.950	CREE CAT # ARE-EDG-4MIS...14-E-UL-525-40K (525mA)	229	229
SB	2	SB	BACK-BACK	N.A.	0.950	CREE CAT # ARE-EDG-4M...14-E-UL-525-40K (525mA)	458	458
A	9	A	SINGLE	N.A.	1.000	ESA-ADR-6-28-D-WD-LM-27TV-525-35K (525mA)	52	52

Label	Calc Type	Units	Avg	Max	Min	Avg/Mn	Max/Mn
AUTODOOR STORAGE	Illuminance	Fc	2.62	20.9	0.1	26.20	209.00
LIGHTING SPILL EAST PROPERTY LIN	Illuminance	Fc	0.11	0.3	0.0	N.A.	N.A.
LIGHTING SPILL NORT PROPERTY LIN	Illuminance	Fc	0.22	0.3	0.1	2.20	3.00
LIGHTING SPILL ON PARK AVE	Illuminance	Fc	0.03	0.1	0.0	N.A.	N.A.
LIGHTING SPILL WEST PROPERTY LIN	Illuminance	Fc	0.16	0.3	0.0	N.A.	N.A.
SITE	Illuminance	Fc	3.34	28.8	0.8	4.18	33.50
ENTRANCE TO BUILDING	Illuminance	Fc	4.06	5.5	2.6	1.56	2.12
NORTH CANOPY	Illuminance	Fc	10.97	20.9	2.8	3.92	7.46
PARKING 1	Illuminance	Fc	3.46	4.3	2.3	1.50	1.87
PARKING 2	Illuminance	Fc	2.97	4.8	1.3	2.28	3.54
SOUTH CANOPY	Illuminance	Fc	15.99	28.8	3.5	1.88	3.15

PHOTOMETRIC PLAN
SCALE 1" = 30'-0"

PHASE I PHOTOMETRIC PLAN



Eduardo (Ed) Samour, P.E.
Registered Electrical Engineer
P.E. # 41186
Date: 8.8.2016

iPLAN & DESIGN
PLANNER
SITE DESIGN
DEVELOPMENT CONSULTANT
5090 PGA Blvd.
Suite 212
Palm Beach Gardens,
Florida 33458
561.797.4217
bcheguis@gmail.com

Spacebox Lake Park, LLC
Site Plan
Lake Park, Florida

DESIGNED: BC
DRAWN:
APPROVED:
JOB NUMBER:
DATE:
REVISIONS:



MAR 15, 2016

Cree Edge™ Series

LED Area/Flood Luminaire

Product Description
The Cree Edge Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weatherlight LED driver compartment and high performance aluminum heat sinks. Various mounting choices: Adjustable Arm, Direct Arm, Direct Arm Long, Spike or Side Arm (details on page 2). Includes a half/double guard.
Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary
Utilizes BetaLED™ Technology
Patented NanoOptic™ Product Technology
Made in the U.S.A., U.S.S. and imported parts
CRI: Minimum 70 CRI
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard
Limited Warranty: 10 years on luminaire/10 years on Colorfast DefogGuard™ Finish

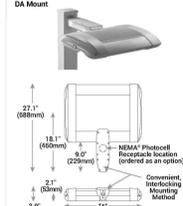
Accessories

Field Number	Accessories
10-0000	Blacklight Control Switch
10-0001	40-0001-4 New York
10-0002	40-0001-4 New York

Ordering Information
Example: ARE-EDG-2M-AA-12-E-UL-SV-300

Product	Optic	Mounting	LED Count (x10)	Series	Color	Drive	Options
ARE-EDG-2M-AA-12-E-UL-SV-300	2M	AA	12	E	UL	SV	300

Rev. Date: 01/06/2015 **CREE**
www.cree.com/lighting 1 (800) 236-6800 F (262) 504-5415



SEC-EDG-4M/4MB-WM

Cree Edge™ Security Wall Pack Luminaire - Type IV Medium - Wall Mount

Product Description
Slim, low profile design. Luminaire and cap is rugged die cast aluminum with integral, weatherlight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Finished with low visible light weight mounting box designed for installation over standard and must ring using gang J-Boxes. Secures to wall with four 5/16" (8mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring (includes leaf & debris guard).

Performance Summary
Utilizes BetaLED™ Technology
Patented NanoOptic™ Product Technology
Made in the U.S.A., U.S.S. and imported parts
CRI: Minimum 70 CRI
CCT: 3700K (+/- 500K) Standard, 4000K (+/- 300K)
Limited Warranty: 10 years on luminaire / 10 years on Colorfast DefogGuard™ Finish

Accessories

Field Number	Accessories
10-0000	Blacklight Control Switch

Ordering Information
Example: SEC-EDG-4M-WM-Q2-E-UL-SV-300-010

Product	Optic	Mounting	LED Count (x10)	Series	Color	Drive	Options
SEC-EDG-4M-WM-Q2-E-UL-SV-300-010	4M	WM	Q2	E	UL	SV	300

Rev. Date: 10/20/15 **CREE**
www.cree.com/lighting 1 (800) 236-6800 F (262) 504-5415



ESSENTIA™

ESSENTIA™ INTERIOR LED
ESA-ADR-614-C-ADJ

DESCRIPTION
Adjustable recess luminaire with 6" round aperture, designed for 14 High output LEDs maximum. Optical assembly consists of a light engine and a low brightness Alcon™ aluminum ring-cut parabolic case with no backboard. 4° maximum aiming angle. Three light distributions available - narrow spot, narrow spot and narrow.

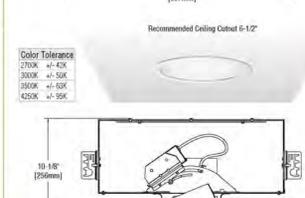
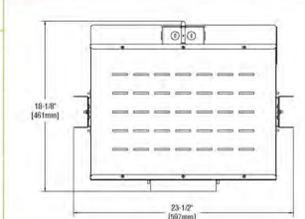
FEATURES
• Luminaire uses 14 High output LEDs. Tolerances to be within a 2 step Melcham Efficacy. See table for specific color tolerance (at right).
• Titled Axiel and/or Axial IIR case optic on each individual LED to maximize light delivery through aperture.
• Low brightness parabolic spot Alcon aluminum case, 0.00" thick with polished radius and continuous wall flange.
• Settable Glow Clear finish, standard.
• Torison springs for ease of installation and proper trim alignment.
• 360° rotation and 30° maximum vertical adjustment.
• Positive locking system assures correct focus and proper position.
• 2" aperture throat to accommodate all standard and set-back ceilings and provide flexibility in mounting within grid.
• Customizable to accommodate all standard and set-back ceilings and provide flexibility in mounting within grid.
• High Efficiency constant current drivers, 120-277VAC input, 20mA drive current.
• 0-10V dimming, standard, 100%-10% full range continuous dimming.
• Light engine, optic, and driver accessible from below ceiling.
• UL/DUL listed for three-wire 60/240V-0/0°C and dimmable.
• Thermally protected.

COMPANION LUMINAIRES
LED Downlight
ESA-ADR-620-C-WD-SGZFF
LED Lamina Wallwash
ESA-ADR-614-C1-WW-SGZFF

Family/Service	Product	Aperture (inches)	LED Count (x10)	LED Optic	Performance Guarantee	Flange Finish	Voltage	Drive	System
ESA	ADR	6	14	C	NOADA	Normal (25° Beam)	120 277V	277V	27K 2700K (90 Recycled CRI)

Rev. Date: 15-11/21/11

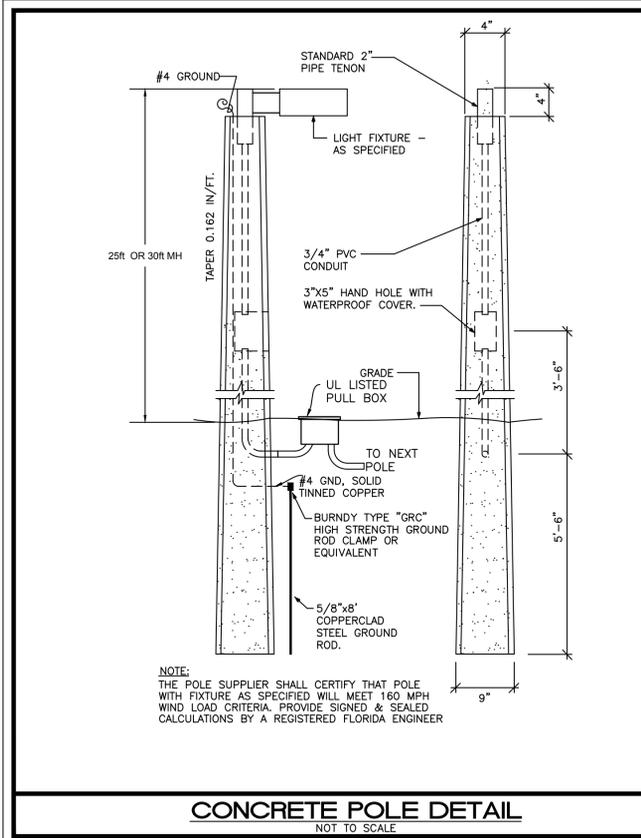
LED Adjustable Downlight - Round 6" Aperture



PATENT PENDING

Color Tolerance	LED Count (x10)	Dim. 2"
Q2	9.2" (233mm)	11.8" (300mm)
Q4	11.8" (300mm)	13.8" (350mm)
Q8	13.8" (350mm)	15.8" (400mm)
Q9	15.8" (400mm)	17.8" (450mm)
Q12	17.8" (450mm)	19.8" (500mm)

Rev. Date: 15-11/21/11



FIXTURES TYPE "SA" AND "SB"

FIXTURES TYPE "WP"

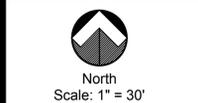
FIXTURES TYPE "A" OR SIMILAR SPECIFIED BY ARCHITECT

Spacebox Lake Park, LLC
Site Plan
Lake Park, Florida

iPLAN & DESIGN
PLANNER
SITE DESIGN
DEVELOPMENT CONSULTANT

5090 PGA Blvd.
Suite 212
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Florida 33458
561.797.4217
bcheguis@gmail.com

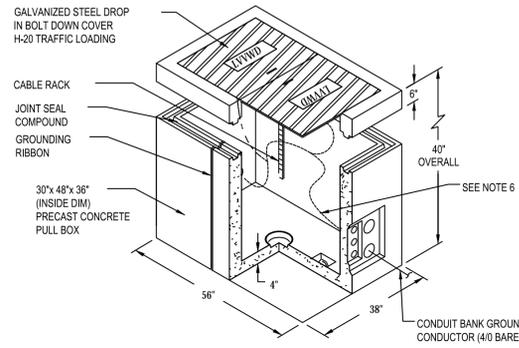
DESIGNED _____ BC
DRAWN _____
APPROVED _____
JOB NUMBER _____
DATE _____
REVISIONS _____



PHASE I PHOTOMETRIC PLAN

E&C Engineers
Cert. of Auth # 26558
2755 Vista Parkway Suite 1-3
West Palm Beach, FL 33411
Tel (561) 712 1149
email: ed@ecengineers.com

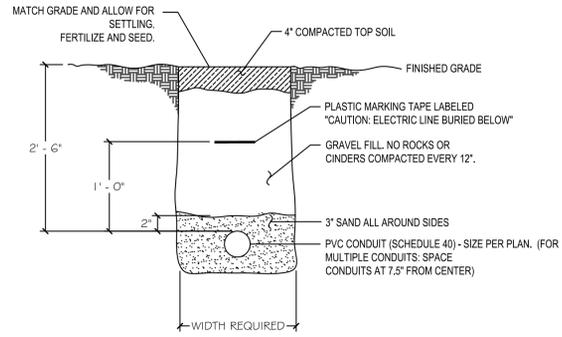
Eduardo (Ed) Samour, P.E.
Registered Electrical Engineer
P.E. # 41186
Date: 8.8.2016



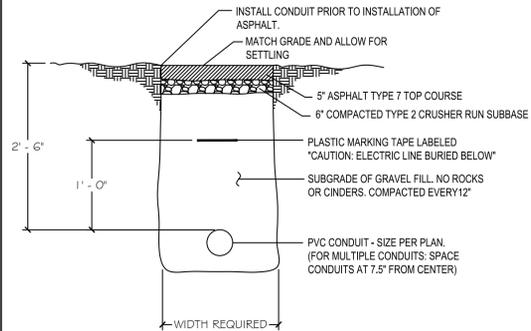
NOTES:

- ENTIRE PULLBOX AND CONDUIT INSTALLATION SHALL BE CLEAN AND DRY AT TIME OF ACCEPTANCE.
- BACKFILL AROUND PULLBOX WITH TYPE II AGGREGATE BASE (208.02.04) COMPACTED TO 95% MAX DENSITY.
- APPLY SILICONE RTV TO CONDUIT ENTRANCE AFTER CONDUCTORS HAVE BEEN INSTALLED. ALL CONDUIT ENTRIES SHALL HAVE END BELLS FLUSH TO INTERIOR OF PULLBOX.
- INSTALL 2" DIA x 2" DEEP DRAIN GRAVEL PACK UNDER 3" DRAIN HOLE AND COVER.
- ROUTE GROUND CONDUCTORS THROUGH PULLBOX AS REQUIRED PER PLAN.
- PROVIDE 4" GROUND WIRE LOOP TO GROUND ALL METALLIC PULLBOX COMPONENTS. LABEL WIRE "PULLBOX GROUND LOOP". CADWELD 5" GREEN #4 GROUND LOOP AND TO COVERS.
- PROVIDE PARTITION INSIDE PULLBOX TO SEPARATE POWER FROM DATA / CONTROL WIRING.

1 PULLBOX WITH SIDE PENETRATION DETAIL
N.T.S.

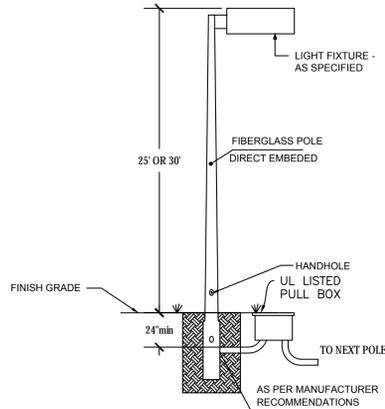


2 CONDUIT TRENCH DETAIL - GRASS AREAS
N.T.S.

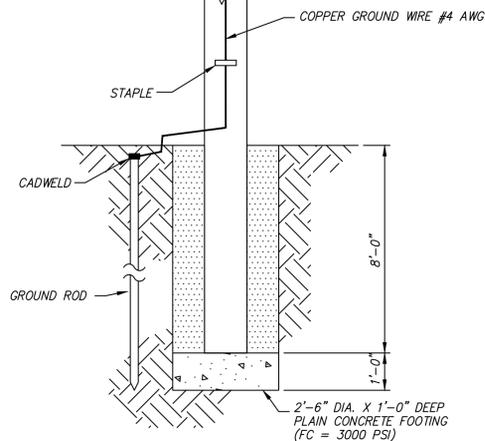


3 CONDUIT TRENCH DETAIL - PAVED AREAS
N.T.S.

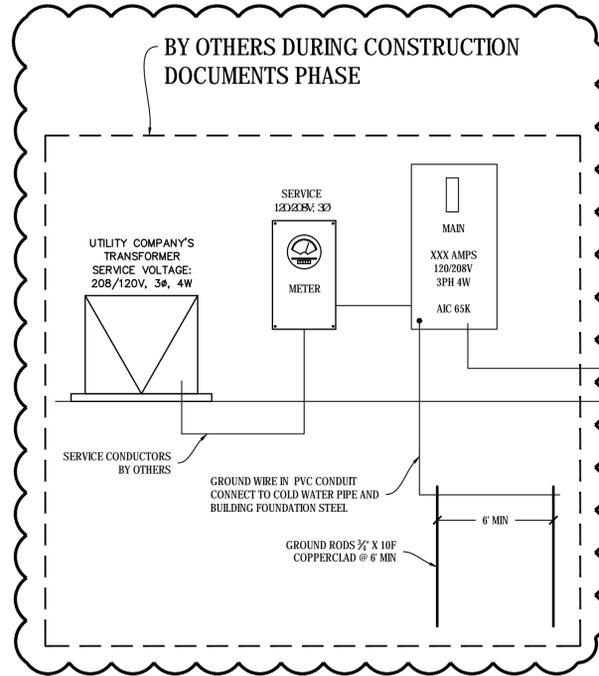
NOTE:
POLE SUPPLIER SHALL CERTIFY THAT POLE, BASE, & FIXTURE MEETS 160 MPH WIND LOAD CRITERIA AND SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A REGISTERED FLORIDA ENGINEER.



4 TYPICAL POLE DETAIL
N.T.S.



5 EMBEDDED POLE GROUNDING DETAIL
N.T.S.



PARTIAL ELECTRICAL RISER DIAGRAM
NOT TO SCALE

ALL ELECTRICAL EQUIPMENT WILL BE LABELED TO INDICATE POTENTIAL ELECTRIC ARC FLASH HAZARDS
ALL PANELS TO BE SERIES RATED.

PANEL		HP1		ENCLOSURE TYPE:							
VOLTAGE (L-N):		208		SUBSURFACE							
VOLTAGE (L-L):		3Ø 4W		MOUNTING:							
PHASES, WIRES:		3Ø 4W		AIC RATING (A):							
MINIMUM BUS CAPACITY (A):		100 A		NOTES:							
MAIN D.C. DEVICE (A):		100 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	C					
1.3	SITE LIGHTING	20	2	684	688	0	2	20	SITE LIGHTING	2.4	
1.3	SITE LIGHTING	20	2	684	688	0	2	20	SITE LIGHTING	2.4	
5.7	SITE LIGHTING	20	2	570	2005	570	1	20	SITE LIGHTING	6	
5.7	SITE LIGHTING	20	2	570	2005	570	3	35	IRRIGATION PUMP	8.10.12	
9	---	20	1	0	0	0	3	35	IRRIGATION PUMP	8.10.12	
11	---	20	1	0	0	0	3	35	IRRIGATION PUMP	8.10.12	
13	---	20	1	0	0	0	1	20	---	14	
15	---	20	1	0	0	0	1	20	---	16	
17	---	20	1	0	0	0	1	20	---	18	
19	---	20	1	0	0	0	1	20	---	20	
21	---	20	1	0	0	0	1	20	---	22	
23	---	20	1	0	0	0	1	20	---	24	
25	---	20	1	0	0	0	1	20	---	26	
27	---	20	1	0	0	0	1	20	---	28	
29	---	20	1	0	0	0	1	20	---	30	
				CONNECTED LOAD PHASE TOTALS (VA)							
				3945	3375	3575					
		CONNECTED LOAD (kVA)		DEMAND FACTOR		DEMAND LOAD (kVA)		DEMAND LOAD		15.6 kVA	
Lighting		4.9		1.25		6.1		SPARE CAPACITY		22.4 kVA	
Motors		0.0		1.00		0.0		SPARE CAPACITY		62.2 AMPS	
Motors (Largest)		6.0		1.25		7.5		PHASE BALANCE		62 %	
								A TO B		86 %	
								B TO C		94 %	
								C TO A		91 %	
TOTAL LOAD (AMPS):		10.9				13.6					
		30.2				37.8					

- NOTES:**
- ALL WIRING TO BE AWG THWN #12 UNLESS NOTED OTHERWISE.
 - SEE ELECTRICAL PLAN FOR CONDUIT AND WIRE SIZES AND QUANTITIES.

This Document has been prepared by or under direct supervision of the undersigned Registered Electrical Engineer.
Eduardo Samour, P.E.
Florida Registration # 41186

SPACEBOX LAKE PARK, LLC

LAKE PARK, FL

ELECTRICAL PLANS PHASE 1

Date: 06/02/16
Scale: AS NOTED
Designed by: E. SAMOUR, P.E.
Drawn By: J. HUNT
Project #: 15-2693

Revisions

1	BUILDING DEPT. COMMENTS 07.27.16
---	----------------------------------

A PROJECT FOR:

CODES THAT APPLY TO THIS PROJECT:
2014 FBC
2011 NFPA-70
2009 NFPA-72
2010 FLORIDA FIRE PREVENTION CODE

**SPACEBOX
LAKE PARK, LLC**

LAKE PARK, FL

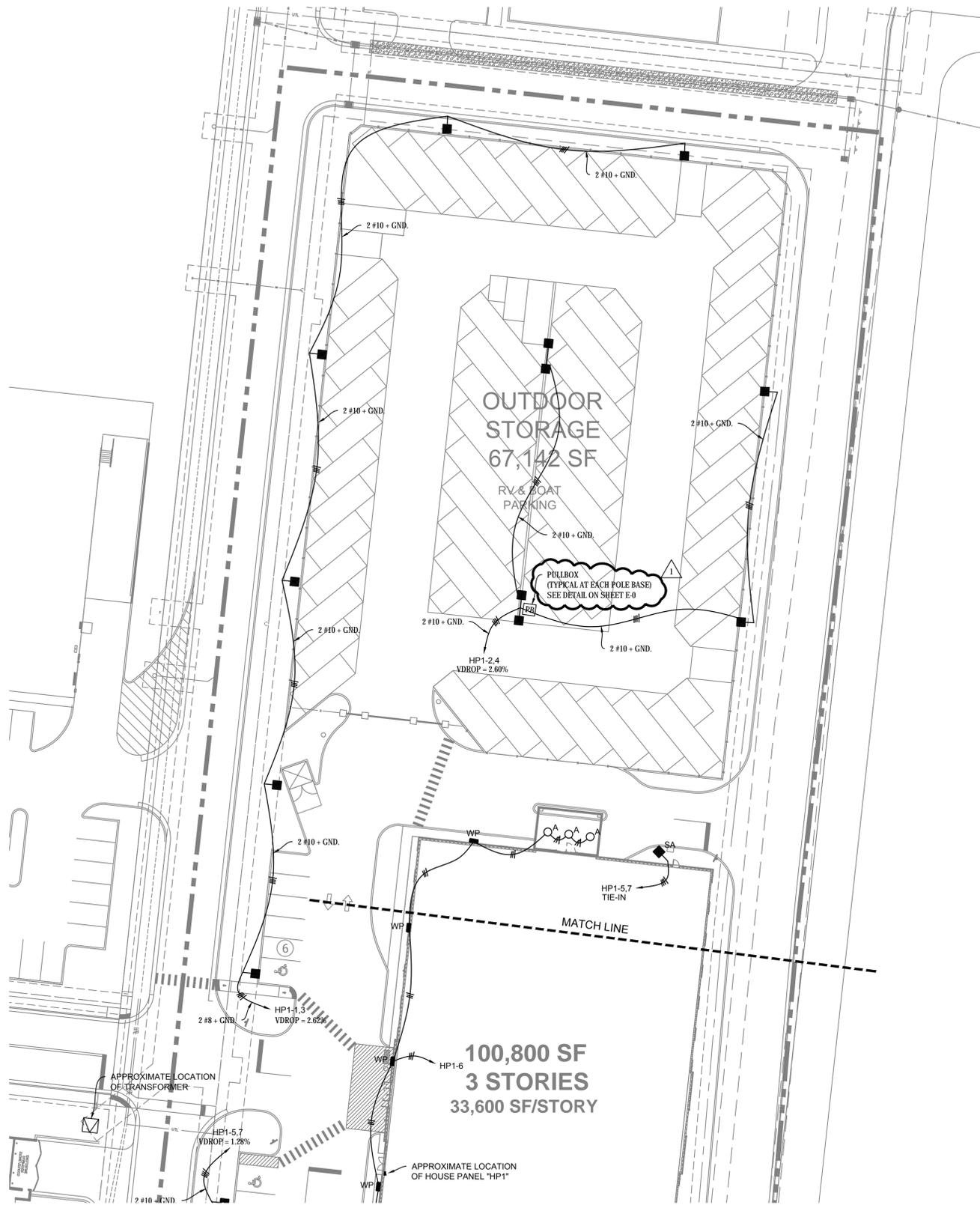
**ELECTRICAL
PLANS
PHASE 1**

Date	06/02/16
Scale	AS NOTED
Designed by	E. SAMOUR, P.E.
Drawn By:	J. HUNT
Project #:	15-2693

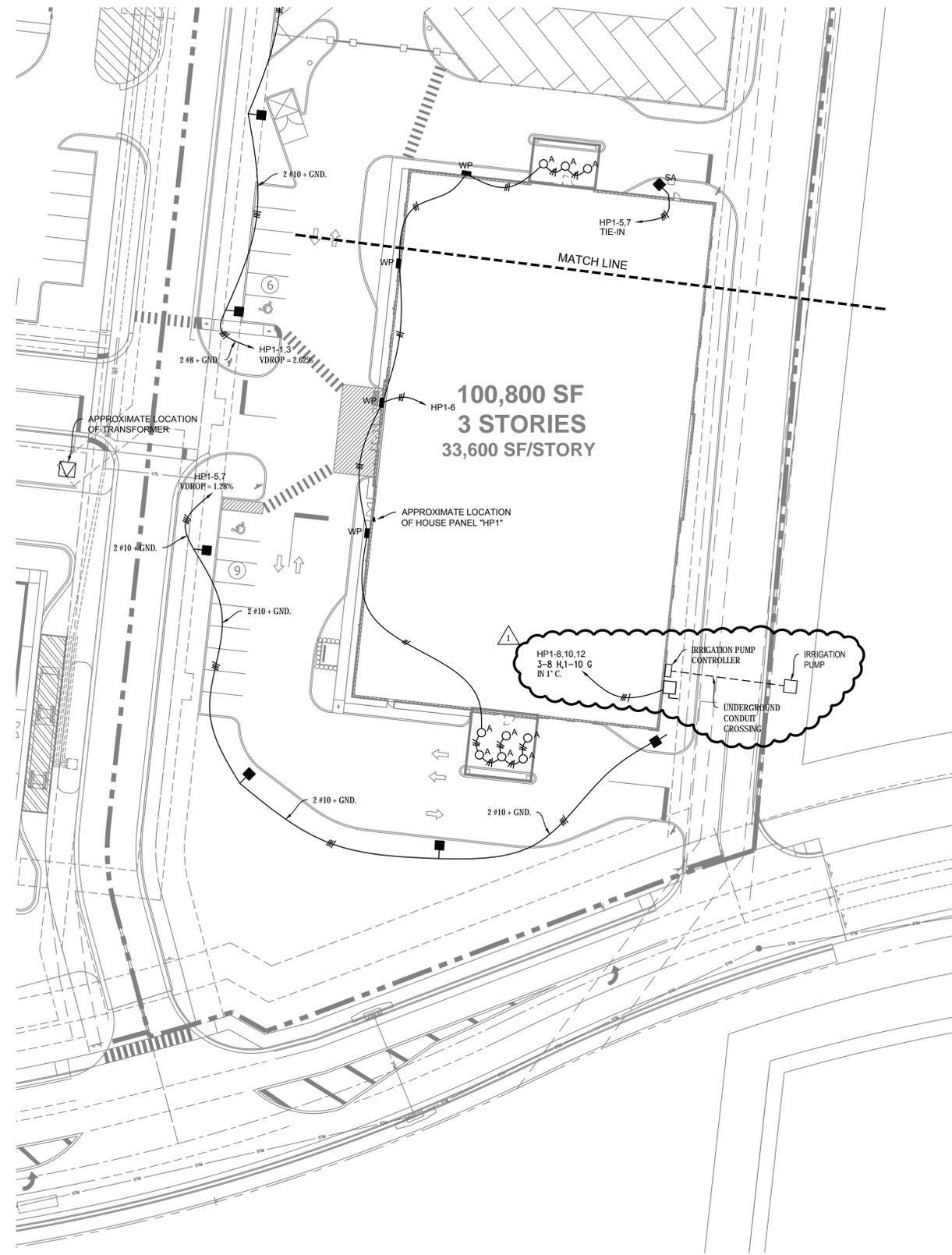
Revisions

1	BUILDING DEPT. COMMENTS 07.27.16
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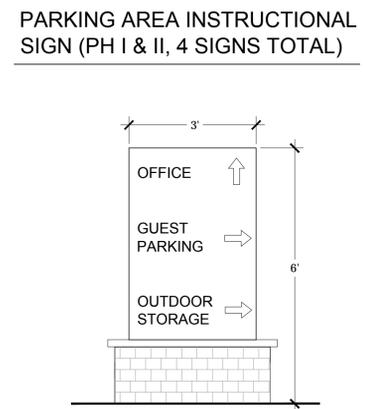
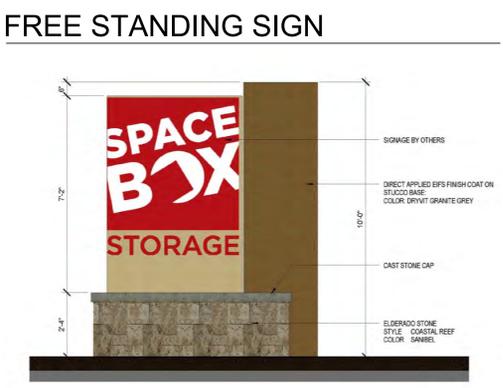
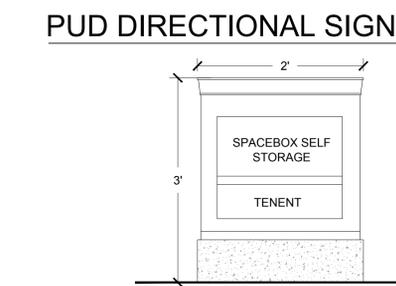
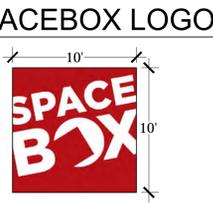
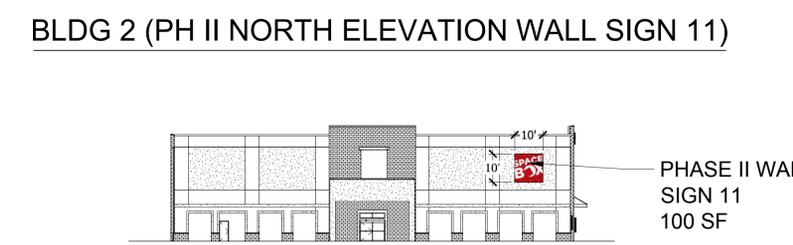
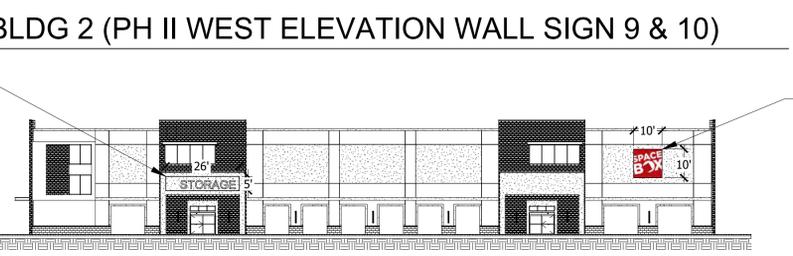
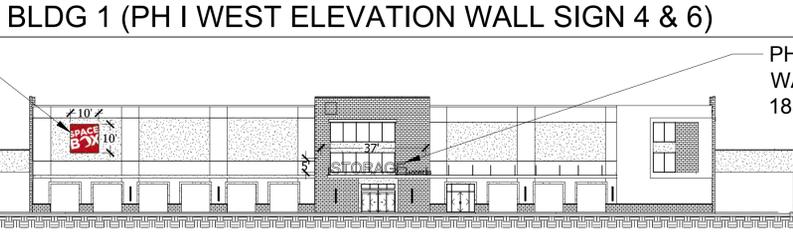
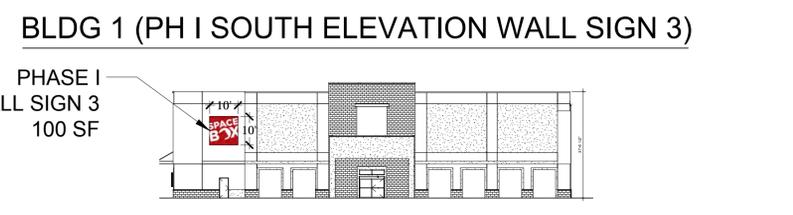
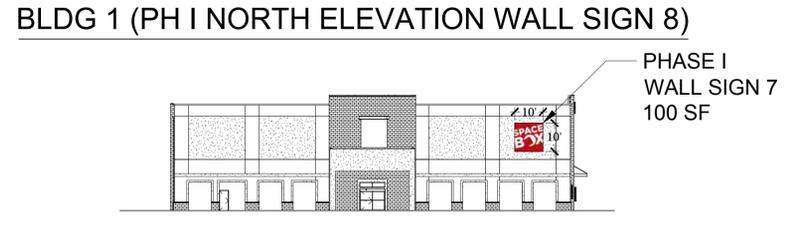
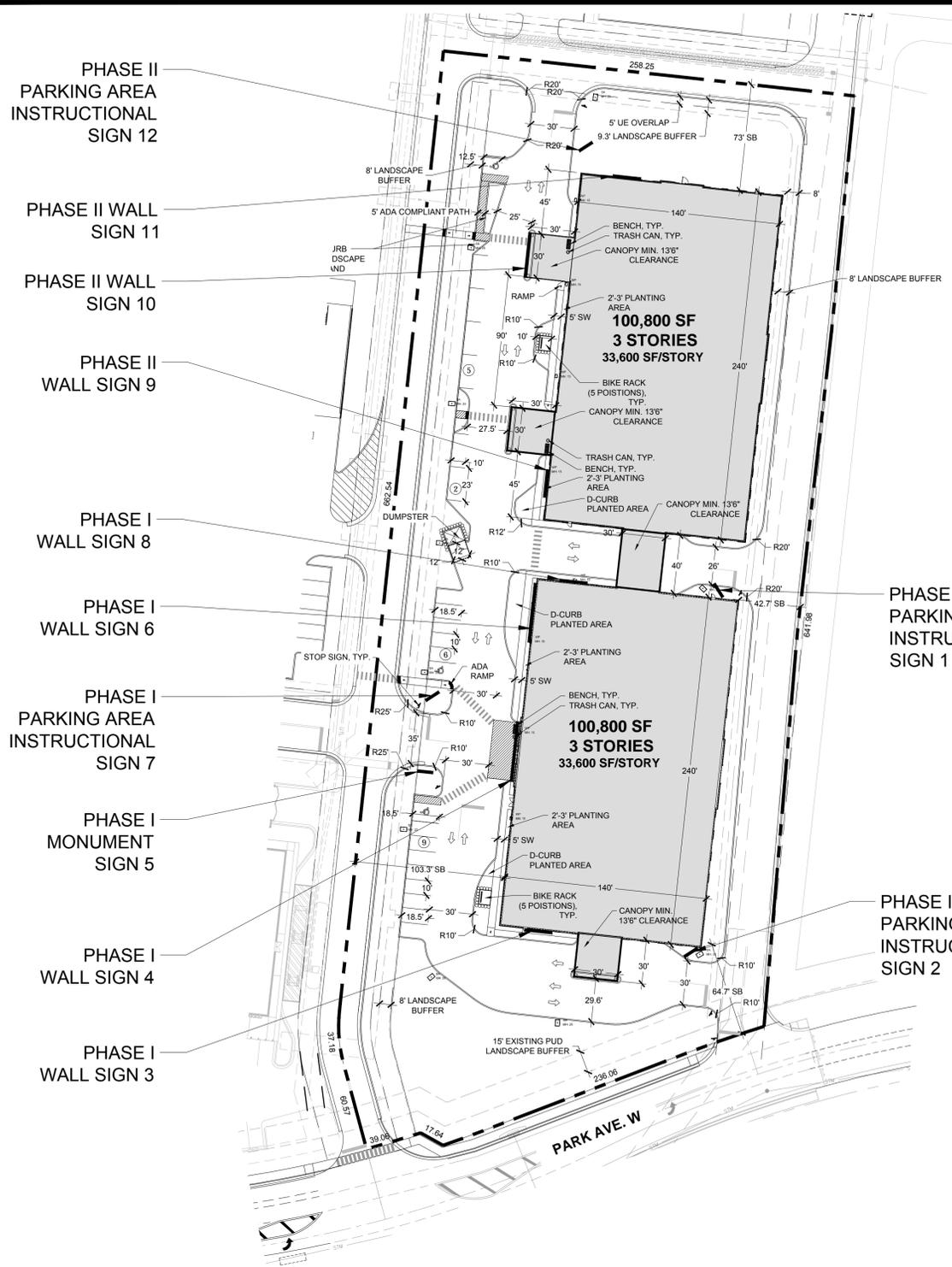
A PROJECT FOR:



SITE LIGHTING ELECTRICAL PLAN
SCALE 1" = 30'-0"



SITE LIGHTING ELECTRICAL PLAN
SCALE 1" = 30'-0"



SIGNAGE TABLE

Phase I - Freestanding Signs				
Frontage / Location	West Access Road	East Access Road	North Access Road	Park Avenue
Sign Type	Monument	Monument	Monument	Monument
Max. No. of Signs	1	0	0	0
Max. Sign Area	380 sf	0	0	0
1.0 sf. / 1.5 ft. of frontage (1.0 x 760.29 / 2 = 380 sf.)				
Proposed Sign Area	80 sf	0	0	0
Phase II - Freestanding Signs				
Sign Type	Parking Area Instructional	Parking Area Instructional	Parking Area Instructional	Parking Area Instructional
Max. No. of Signs (N/A)	1	2	0	0
Max. Sign Area	18 sf	18 sf	18 sf	18 sf
(Legible to drivers accessing site)				
Proposed Sign Area	18 sf	18 sf	0	18 sf

Space Box Signage Table				
Phase I - Building 1 Wall Signs				
Wall	Location	Code Requirement	Max. Signage Area	Proposed Signage Area
West	Front	1.5 sf. / 1.0 ft. of bldg. frontage	360 sf.	285 sf.
South	Side	50% of front wall max. calc.	180 sf.	100 sf.
East	Rear	50% of front wall max. calc.	180 sf.	0 sf.
North	Side	50% of front wall max. calc.	180 sf.	100 sf.
Phase II - Building 2 Wall Signs				
Wall	Location	Code Requirement	Max. Signage Area	Proposed Signage Area
West	Front	1.5 sf. / 1.0 ft. of bldg. frontage	360 sf.	230 sf.
South	Side	50% of front wall max. calc.	180 sf.	0 sf.
East	Rear	50% of front wall max. calc.	180 sf.	0 sf.
North	Side	50% of front wall max. calc.	180 sf.	100 sf.

PHASE I & II MASTER SIGN PLAN

Landscape Architect of Record
LQ
Litterick Landscape Architecture
 2740 SW Martin Downs Blvd. #199
 Palm City, FL 34990
 561-719-3876
 JasonLA1677@yahoo.com

PLAN & DESIGN
 PLANNER
 SITE DESIGN
 DEVELOPMENT CONSULTANT
 5090 PGA Blvd.
 Suite 212
 Palm Beach Gardens,
 Florida 33458
 561.797.4217
 bcheigus@gmail.com

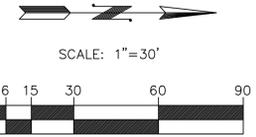
Spacebox Lake Park, LLC
 Lake Park, Florida

DESIGNED	BC
DRAWN	
APPROVED	
JOB NUMBER	
DATE	
REVISIONS	

MAR 20, 2016

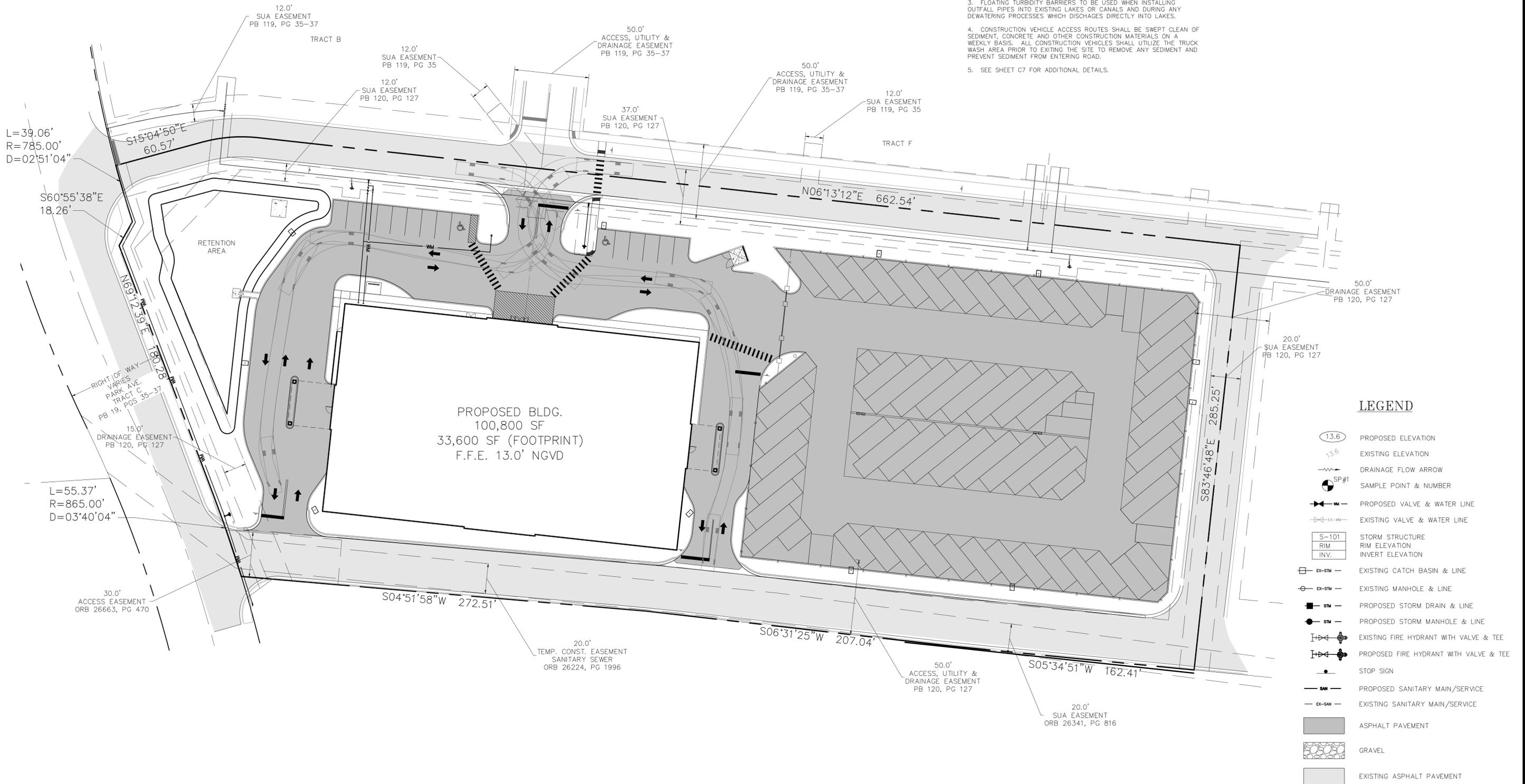


Know what's below.
Call before you dig.



NOTES:

1. ALL STORM SEWER INLET GRATES TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
2. CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNER THAT WILL PROVIDE FOR DRAINAGE TOWARD THE CENTER OF THE PROJECT AND A POLLUTION PREVENTION DEVICE. WHERE THIS IS NOT POSSIBLE SILT FENCES WILL BE PROVIDED SUCH THAT ALL RUNOFF FROM THE SITE WILL PASS THRU A POLLUTION PREVENTION DEVICE PRIOR TO DISCHARGE.
3. FLOATING TURBIDITY BARRIERS TO BE USED WHEN INSTALLING OUTFALL PIPES INTO EXISTING LAKES OR CANALS AND DURING ANY DEWATERING PROCESSES WHICH DISCHARGES DIRECTLY INTO LAKES.
4. CONSTRUCTION VEHICLE ACCESS ROUTES SHALL BE SWEEPED CLEAN OF SEDIMENT, CONCRETE AND OTHER CONSTRUCTION MATERIALS ON A WEEKLY BASIS. ALL CONSTRUCTION VEHICLES SHALL UTILIZE THE TRUCK WASH AREA PRIOR TO EXITING THE SITE TO REMOVE ANY SEDIMENT AND PREVENT SEDIMENT FROM ENTERING ROAD.
5. SEE SHEET C7 FOR ADDITIONAL DETAILS.



LEGEND

- 13.6 PROPOSED ELEVATION
- 15.6 EXISTING ELEVATION
- DRAINAGE FLOW ARROW
- SP#1 SAMPLE POINT & NUMBER
- PROPOSED VALVE & WATER LINE
- EXISTING VALVE & WATER LINE
- S-101 STORM STRUCTURE
- RIM RIM ELEVATION
- INV. INVERT ELEVATION
- EX-STM EXISTING CATCH BASIN & LINE
- EX-STM EXISTING MANHOLE & LINE
- STM PROPOSED STORM DRAIN & LINE
- STM PROPOSED STORM MANHOLE & LINE
- EXISTING FIRE HYDRANT WITH VALVE & TEE
- PROPOSED FIRE HYDRANT WITH VALVE & TEE
- STOP SIGN
- SAN PROPOSED SANITARY MAIN/SERVICE
- EX-SAN EXISTING SANITARY MAIN/SERVICE
- ASPHALT PAVEMENT
- GRAVEL
- EXISTING ASPHALT PAVEMENT

SMILEY & ASSOCIATES, INC.
1928 COMMERCE LANE, SUITE 2, JUPITER, FLORIDA 33458
561-747-8335 • msmiley@smiley-associates.com
www.smiley-associates.com
EB # 6613

MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK C. SMILEY, P.E. ON 8/8/16 USING A SHA-1 AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REV.	DESCRIPTION	APRV.	DATE

REVISION NOTES

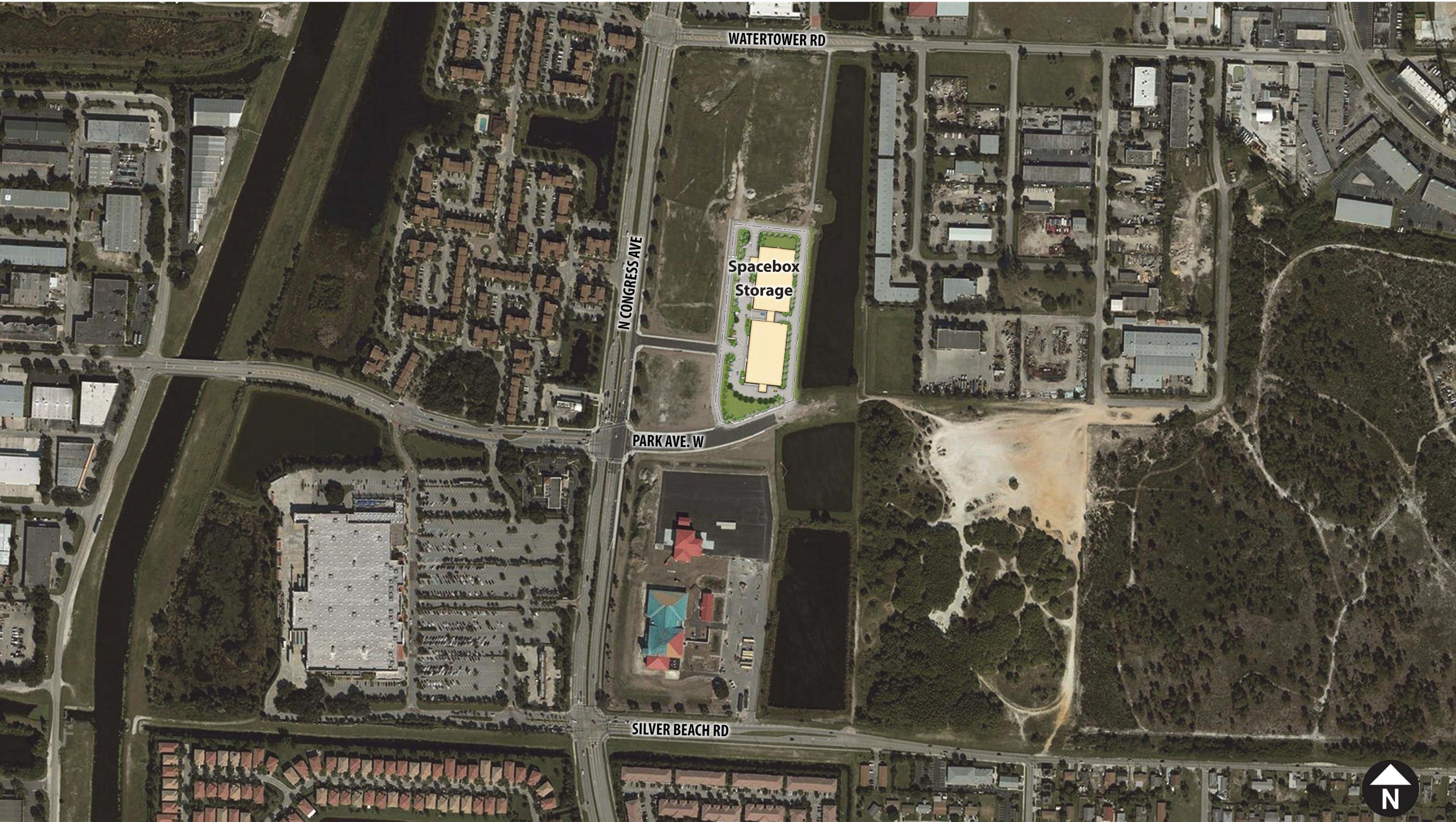
SPACEBOX LAKE PARK
FOR
SPACEBOX LAKE PARK, LLC
LAKE PARK, FLORIDA

FIRE ROUTE - PHASE I

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

ATA 1
SHEET TYPE
SHEET 1 OF 1
JOB # 16-005



WATERTOWER RD

N CONGRESS AVE

Spacebox Storage

PARK AVE. W

SILVER BEACH RD



SPACEBOX LAKE PARK, LLC - PHASE II
Lake Park, Florida

iPLAN
& DESIGN

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Palm Beach Gardens, FL33418
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bcheguis@gmail.com



PARK AVE. W



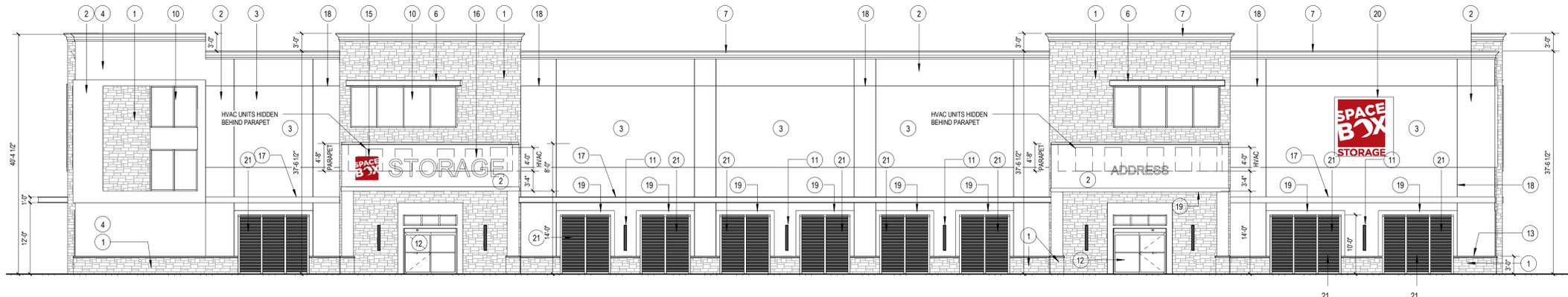
SPACEBOX LAKE PARK, LLC - PHASE II
Lake Park, Florida

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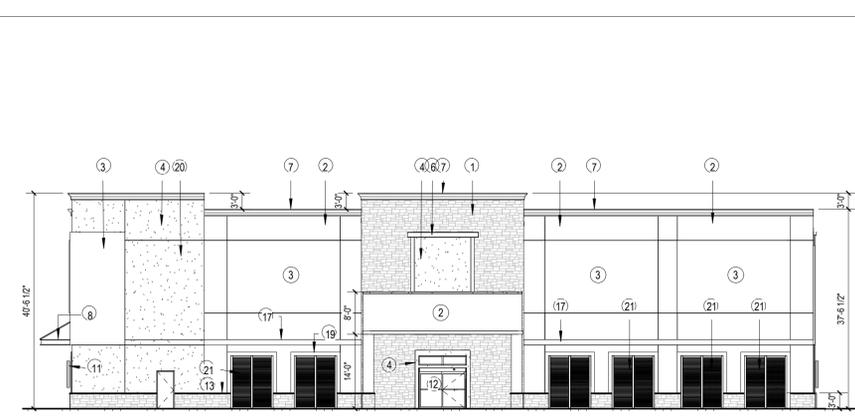
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MATERIAL LEGEND			MATERIAL LEGEND		
MATERIAL / MANUF.	COLOR	NOTES	MATERIAL / MANUF.	COLOR	NOTES
1 ELDERADO STONE	SANIBEL	STYLE: COASTAL REEF	20 BUILDING SIGN	BY SIGN VENDOR	10'X10'
2 STUCCO WALL FINISH	DRYVIT-MANOR WHITE	SAND FINISH	21 ALUM. SHUTTER	DARK BRONZE	
3 STUCCO WALL FINISH	DRYVIT-CHIFFON	SAND FINISH			
4 STUCCO WALL FINISH	DRYVIT-RUSSET	SAND FINISH			
5 NOT USED					
6 STEEL CHANNEL LINTEL	DARK BRONZE				
7 MTL COPING	DARK BRONZE				
8 ALUMINUM AWNING	DARK BRONZE				
9 EIFS CORNICE	DRYVIT-CHAMOIS	SAND FINISH			
10 ALUMINUM STOREFRONT	DARK BRONZE				
11 WALL SCONCE LIGHT	TBD				
12 ALUM. ENTRANCE-STANLEY	DARK BRONZE				
13 CAST STONE CAP	TAN	SMOOTH FINISH			
14 ALUM. GUTTER & DOWNSPOUT	DARK BONZE				
15 SPACEBOX SIGN	BY SIGN VENDOR	48" X48"			
16 BACKLIT SIGN	BY SIGN VENDOR	48" HIGH LETTERING			
17 12" HIGH EIFS BAND	DRYVIT-CHAMOIS	SAND FINISH			
18 STUCCO REVEAL					
19 EIFS TRIM	DRYVIT-CHAMOIS	SAND FINISH			

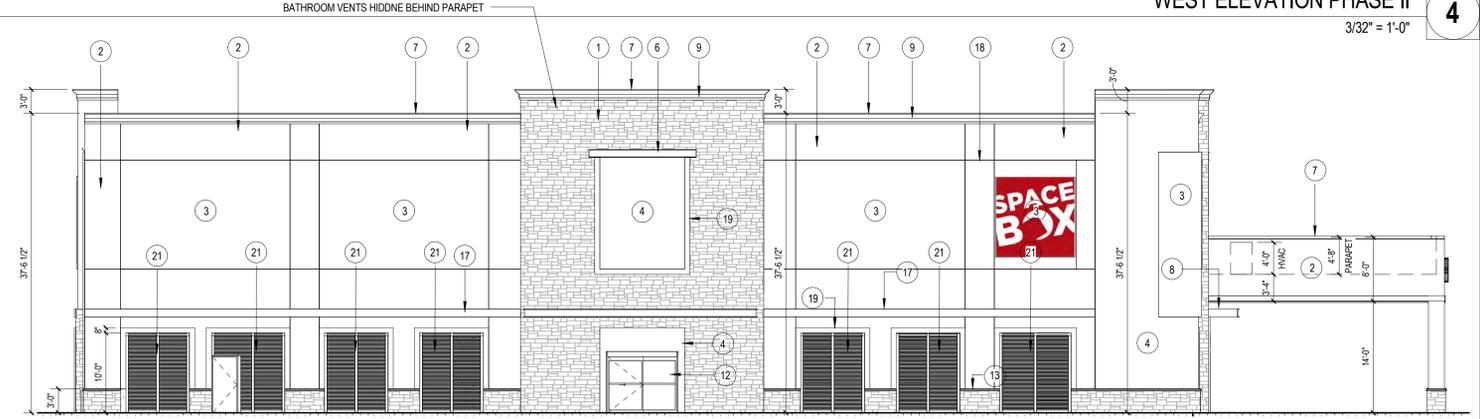
ELEVATION KEYNOTE PHASE II
3/32" = 1'-0"



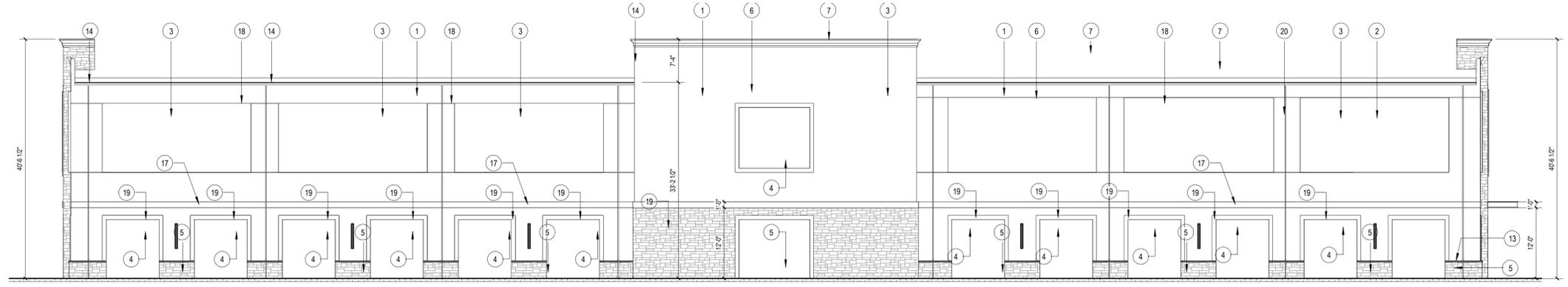
WEST ELEVATION PHASE II
3/32" = 1'-0"



SOUTH ELEVATION PHASE II
1/16" = 1'-0"



NORTH ELEVATION PHASE II
3/32" = 1'-0"



EAST ELEVATION PHASE II
3/32" = 1'-0"

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architecture
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PRINTED	
DATE	REMARKS

Revision Schedule		
Rev#	Description	Date

LAKE PARK SPACEBOX
LAKE PARK, FLORIDA
DATE: 04/06/16
PROJECT NO.
A201.2
NOT FOR CONSTRUCTION



PHASE II RENDERING 2
12" = 1'-0"

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PRINTED

DATE	REMARKS

Revision Schedule		
Rev#	Description	Date

LAKE PARK SPACEBOX
LAKE PARK, FLORIDA
ARCHITECTURAL PERSPECTIVE PHASE II

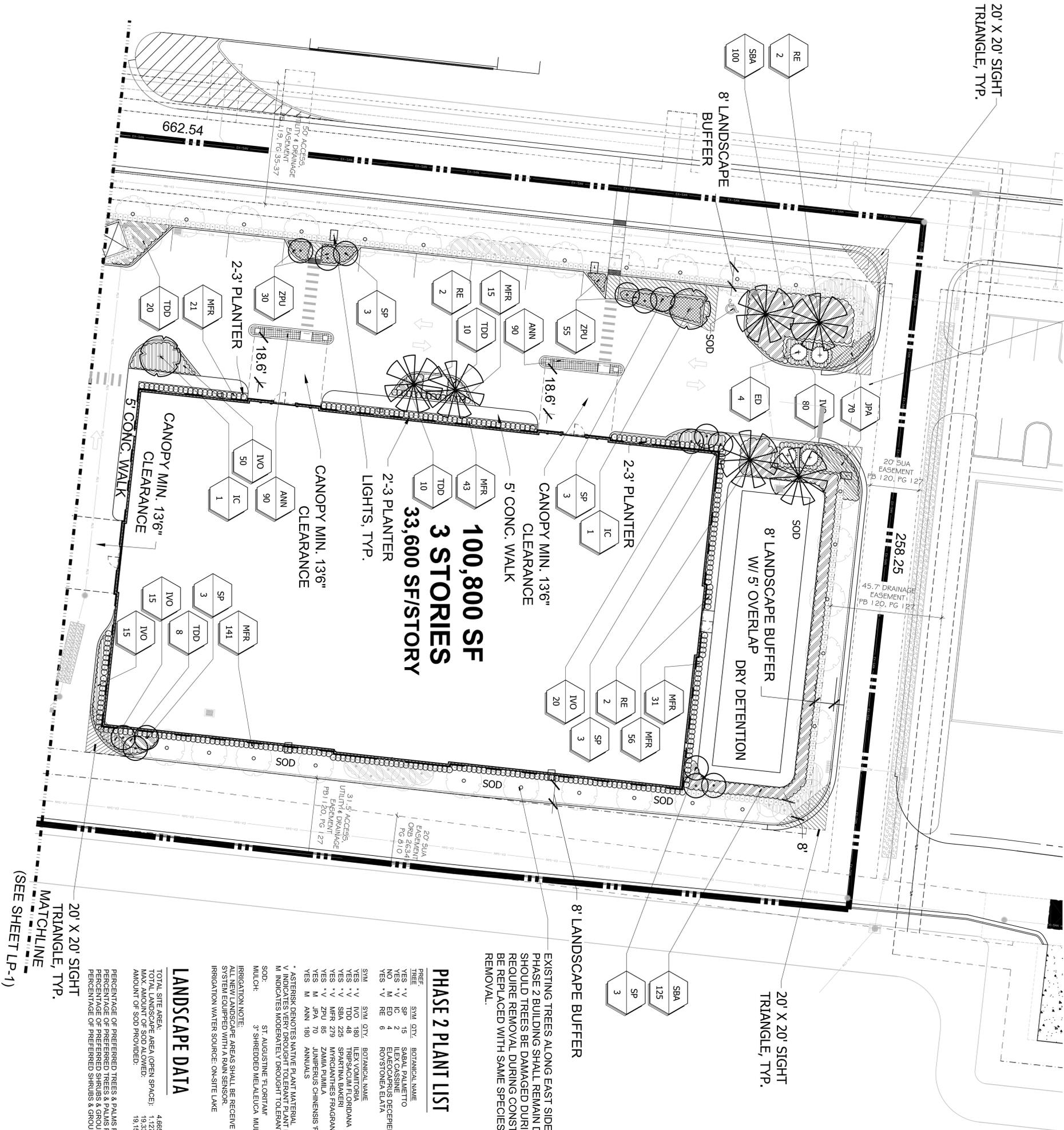
DATE: 04/06/16

PROJECT NO.

A203.2

NOT FOR CONSTRUCTION

EXISTING TREES THAT ARE IN CONFLICT WITH PROPOSED PHASE 2 DRIVEWAY SHALL BE RELOCATED TO A SUITABLE LOCATION ON-SITE OR BE REPLACED AT A 1:1 RATIO (D.B.H.) BASED ON SIZE OF TREE WHEN REMOVED.



LANDSCAPE CERTIFICATION NOTE:
 A CERTIFICATE OF OCCUPANCY SHALL NOT BE ISSUED BY THE COMMUNITY DEVELOPMENT DEPARTMENT IF THE INSTALLED LANDSCAPING DOES NOT COMPLY WITH THE APPROVED LANDSCAPE PLAN BY THE LANDSCAPE ARCHITECT OF RECORD VERIFYING THAT THE INSTALLATION COMPLES WITH THE APPROVED PLAN IS REQUIRED. THE VERIFICATION INCLUDES THE SPECIES, QUALITY, TYPE, AND ANY OTHER ORIGINAL PLANTING SPECIFICATIONS, DESIGN OR LOCATION, IRRIGATION AND ALL OTHER LANDSCAPE STRUCTURES AND MATERIAL USED IN ACCORDANCE WITH THE SITE PLAN.

EXISTING TREES ALONG EAST SIDE OF PROPOSED PHASE 2 BUILDING SHALL REMAIN DURING CONSTRUCTION. SHOULD TREES BE DAMAGED DURING CONSTRUCTION OR REQUIRE REMOVAL DURING CONSTRUCTION, TREES SHALL BE REPLACED WITH SAME SPECIES AND SIZE AT TIME OF REMOVAL.

PHASE 2 PLANT LIST

REF.	SYMA QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	SFR.	NOTES
YES	V	SABAL PALMETTO	CABBAGE PALM	16-24' C.T.	N/A	SLICK TRUNK, HURRICANE CUT, STAGGER HTS.
YES	V	ILEX CASSINE	DAPHNE HOLLY	14' O.A.	5'	FULL & THICK SINGLE TRUNK, 3" DBH
YES	M	ELAEAGARUS DECERPENS	JAPANESE BLUEBERRY	10' O.A.	N/A	FULL & THICK TO GROUND, SINGLE TRUNK, 3" DBH
YES	V	ROSTKONIA ELATA	FL. ROYAL PALM	10' O.A.	N/A	FULL & THICK, MAINTAINED
SYMA	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	NOTES
YES	V	ILEX VOMITORIA	DWF. YALPON HOLLY	#3, 14" O.A.	24" O.C.	FULL & THICK
YES	V	TRIPESACUM FLORIDANA	FL. GAMMA GRASS	#3, 18" O.A.	30" O.C.	FULL & THICK
YES	V	SPARTINA BAKERI	SAND CORGRASS	#3, 20" O.A.	36" O.C.	FULL & THICK
YES	V	MYRCANTHUS FRAGRANS	SIMPSON STOPPER	30" O.A.	24" O.C.	FULL & THICK
YES	V	ZAMIA PUMILA	COONITE	#3, 14" X 14"	24" O.C.	FULL & THICK
YES	M	JUNIPERUS CHINENSIS PARSONII	PARSONS JUNIPER	#3, 16" SPD.	24" O.C.	FULL & THICK
YES	M	ANNULUS	IN SEASON	4-6" POTS	12" O.C.	FULL & THICK

* ASTERISK DENOTES NATIVE PLANT MATERIAL.
 V INDICATES VERY DROUGHT TOLERANT PLANT MATERIAL.
 M INDICATES MODERATELY DROUGHT TOLERANT PLANT MATERIAL.
 SOD: ST. AUGUSTINE FLORITAM
 MULCH: 3" SHREDED METALEUCA MULCH (OR APPROVED RECYCLED MULCH) TO BE APPLIED TO ALL PLANTING BEDS.
 IRRIGATION NOTE: ALL NEW LANDSCAPE AREAS SHALL BE RECEIVE 100% OVERLAP COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM EQUIPPED WITH A RAIN SENSOR.
 IRRIGATION WATER SOURCE: ON-SITE LAKE

LANDSCAPE DATA

TOTAL SITE AREA: 4.665 ACRES (203,207.40 S.F.)
 TOTAL LANDSCAPE AREA (OPEN SPACE): 1,127 ACRES (48,317.27 S.F.)
 MAX. AMOUNT OF SOD ALLOWED: 13,522.5 S.F. (60% OF LANDSCAPE AREA)
 AMOUNT OF SOD PROVIDED: 13,150 S.F. (93.9% OF LANDSCAPE AREA)
 PERCENTAGE OF PREFERRED TREES & PALMS REQUIRED: 75%
 PERCENTAGE OF PREFERRED TREES & PALMS PROVIDED: 83.3%
 PERCENTAGE OF PREFERRED SHRUBS & GROUNDCOVERS PROVIDED: 75%
 PERCENTAGE OF PREFERRED SHRUBS & GROUNDCOVERS PROVIDED: 100%

20' X 20' SIGHT TRIANGLE, TYP.
 MATCHLINE
 (SEE SHEET LP-1)

PHASE 2 LANDSCAPE PLAN

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PLANNER
 SITE DESIGN
 DEVELOPMENT CONSULTANT

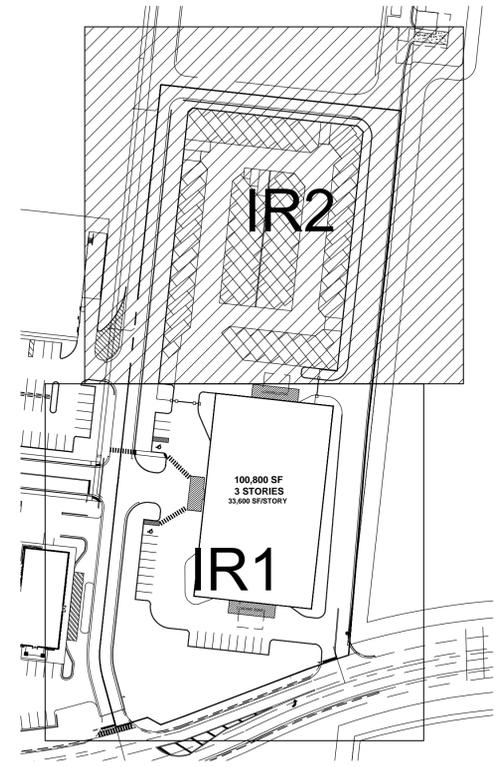
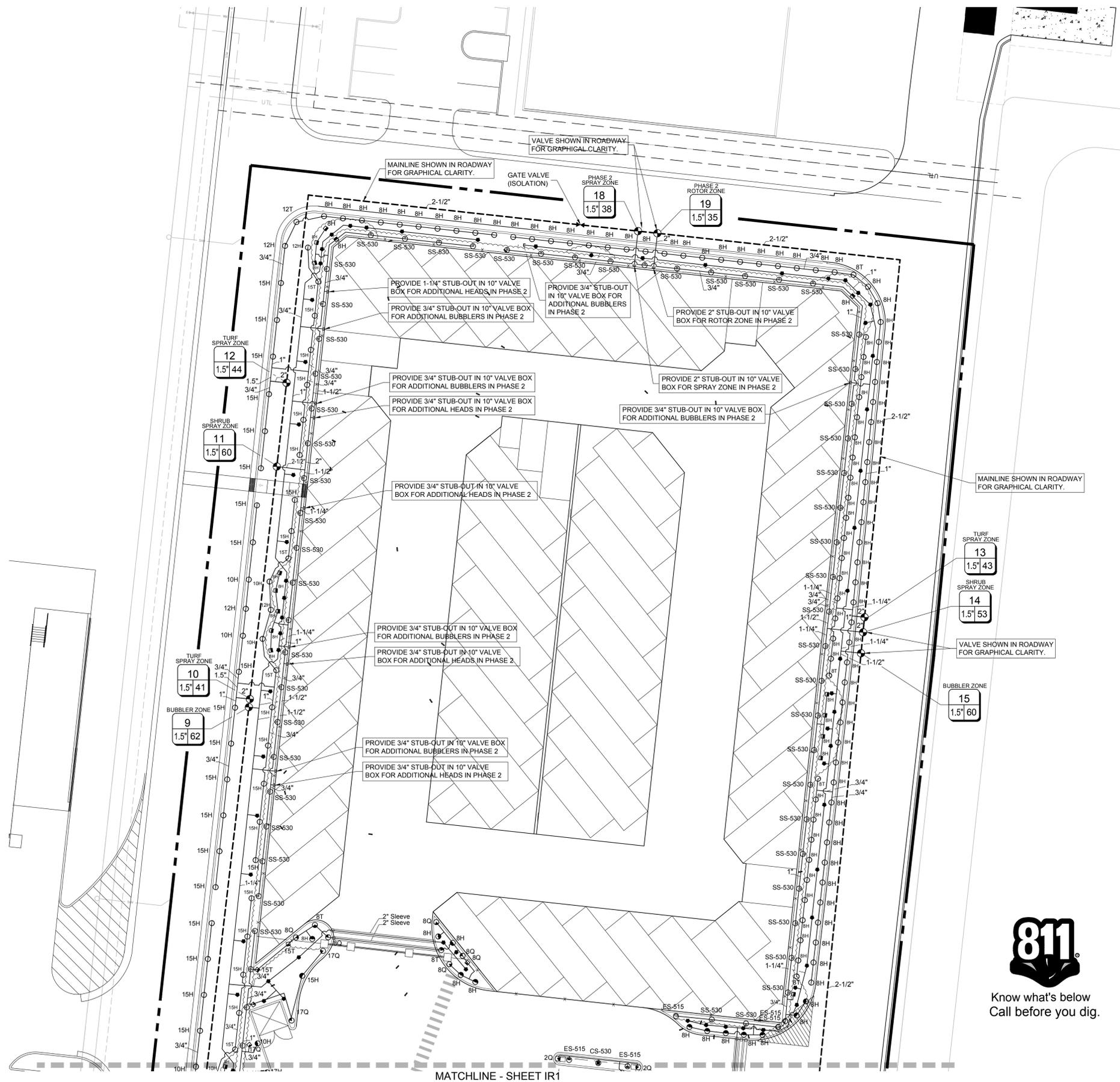
Spacebox Lake Park, LLC
 Lake Park, Florida

Landscaped Architect of Record
 Jason M. Litterick, PLA
 LAD00016177

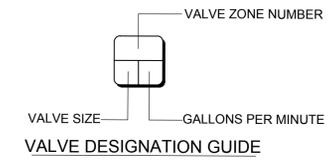
DESIGNED: JML
 DRAWN: JML
 APPROVED: JML
 JOB NUMBER: 4-11-16
 DATE: 6-13-16
 REVISIONS: 7-28-16

Scale: 1" = 20'
 0' 10' 20' 40'

LP-3 of 4



AREA MAP
SCALE 1" = 100'-0"



PIPE SIZING LEGEND

PIPE SIZE	GPM
3/4"	0-10
1"	11-16
1-1/4"	17-28
1-1/2"	29-35
2"	36-55
2-1/2"	56-80

HUNTER PRO-SPRAY NOZZLES

17H	2.37 GPM @ 30 PSI
17Q	1.15 GPM @ 30 PSI
15F	3.75 GPM @ 30 PSI
15TQ	2.92 GPM @ 30 PSI
15TT	2.48 GPM @ 30 PSI
15H	1.86 GPM @ 30 PSI
15T	1.30 GPM @ 30 PSI
15Q	.97 GPM @ 30 PSI
12F	2.70 GPM @ 30 PSI
12TQ	2.00 GPM @ 30 PSI
12TT	1.74 GPM @ 30 PSI
12H	1.30 GPM @ 30 PSI
12T	.89 GPM @ 30 PSI
12Q	.67 GPM @ 30 PSI
10F	1.59 GPM @ 30 PSI
10H	.88 GPM @ 30 PSI
10T	.57 GPM @ 30 PSI
10Q	.42 GPM @ 30 PSI
8F	.97 GPM @ 30 PSI
8H	.47 GPM @ 30 PSI
8T	.32 GPM @ 30 PSI
8Q	.24 GPM @ 30 PSI
5F	.47 GPM @ 30 PSI
5H	.23 GPM @ 30 PSI
5Q	.12 GPM @ 30 PSI
2Q	.11 GPM @ 30 PSI
SS-530	1.30 GPM @ 30 PSI
ES-515	.85 GPM @ 30 PSI
CS-530	1.30 GPM @ 30 PSI

Irrigation Heads

Symbol	Description
⊙	Hunter Model PROS-06-PRS30 with PRO-SPRAY Nozzle
⊙	Hunter Model PROS-12-PRS30 with PRO-SPRAY Nozzle
⊙	Hunter Model PROS-00-PRS30 with PRO-SPRAY Nozzle
▽	Hunter PGP-04 with 2.0 Nozzle
▽	Hunter PGP-04 with 4.0 Nozzle
▽	Hunter PGP-04 with 3.5 LA Nozzle

Pressure Compensating Bubblers

Symbol	Description
●	Hunter Bubbler Model PCB 10

Pipe (Mainline)

Symbol	Description
—	Schedule 40 PVC Pipe

Pipe (Sleeve)

Symbol	Description
—	Schedule 40 PVC Pipe

Remote Control Valves

Symbol	Description
⊙	Hunter Model ICV-151G w/ 1-1/2" PVC Ball Valve in Valve Box

Gate Valve (Isolation)

Symbol	Description
⊙	Aqualine Model BGV-250 or Approved Equal in 12" Valve Box



Know what's below
Call before you dig.

MATCHLINE - SHEET IR1

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Lake Park, Florida

Landscape Architect of Record

Jason M. Litterick, PLA
LA0001677

DESIGNED: CLS
DRAWN: CLS
APPROVED: JML
JOB NUMBER: _____
DATE: 4/4/2016
REVISIONS: 6/10/2016
7-29-16

North
Scale: 1" = 20'

0' 10' 20' 40'

April 4, 2016

PHASE I IRRIGATION PLAN

Phase 2
Irrigation Equipment Table

Irrigation Heads

Quantity	Symbol	Description	Radius
23		Hunter Model PROS-06-PRS30 with PRO-SPRAY Nozzle	8 ft - 15 ft
57		Hunter Model PROS-12-PRS30 with PRO-SPRAY Nozzle	8 ft - 15 ft
37		Hunter Model PROS-00-PRS30 with PRO-SPRAY Nozzle	8 ft - 15 ft
4		Hunter PGP-04 with 3.0 Nozzle	28.00 ft - 38.00 ft
4		Hunter PGP-04 with 6.0 Nozzle	33.00 ft - 43.00 ft

Pressure Compensating Bubblers

Quantity	Symbol	Description	Flow Rate
32		Hunter Bubbler Model PCB 10	1 GPM

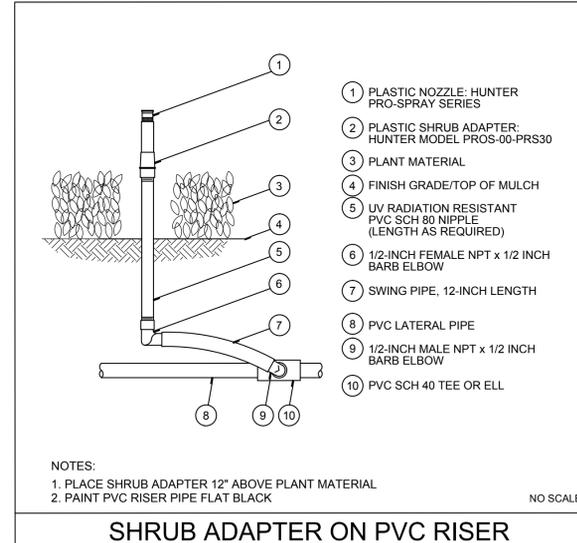
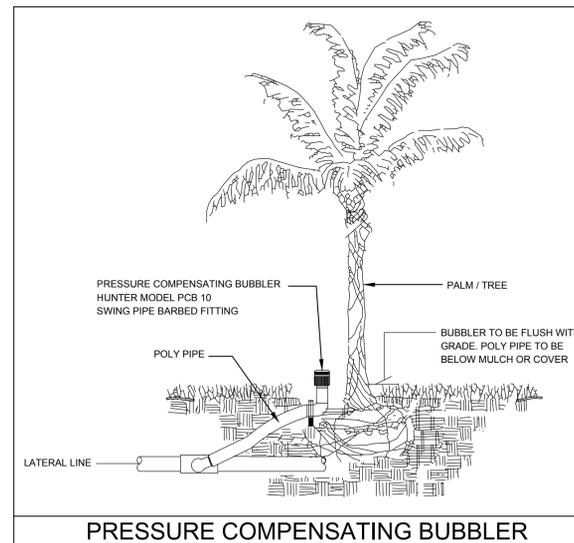
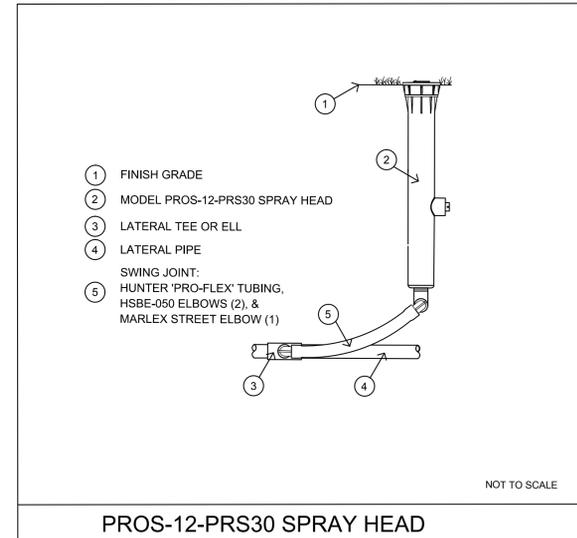
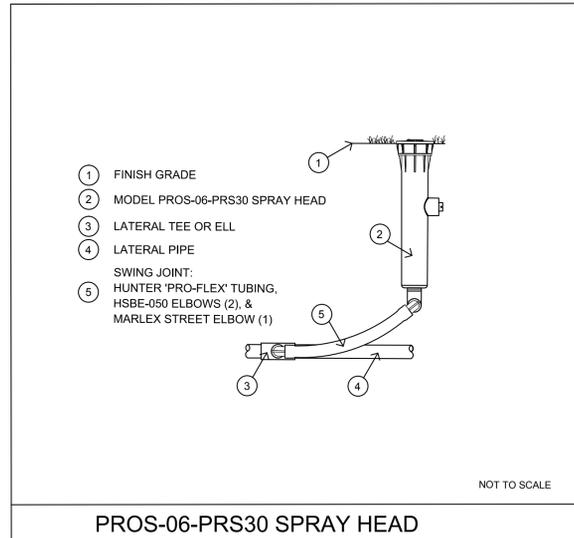
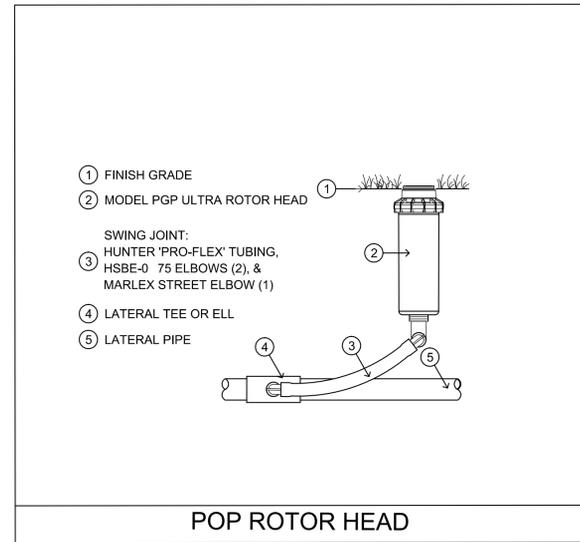
Pipe (Sleeve)

Quantity	Symbol	Description	Size
50 ft		Schedule 40 PVC Pipe	6"
300 ft		Schedule 40 PVC Pipe	2"

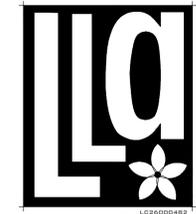
NOTE: QUANTITIES GIVEN ARE FOR CONTRACTORS CONVENIENCE ONLY. THE ACCURACY IS NOT GUARANTEED. IT IS RECOMMENDED THAT ONE VERIFY ALL QUANTITIES.

IRRIGATION NOTES:

- Irrigation system design requires contractor to install additional irrigation to the existing system. Contractor will be required to locate and excavate existing mainline and control wiring crossing under entrance road. Contractor shall re-install mainline and control wiring through sleeves under entrance road.
- Do not willfully install the irrigation system as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example : obstructions, grade differences, water levels, dimensional differences, etc. Refer to the Landscape Plan to avoid conflicts with proposed trees or shrubs.
- Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings or pavement, outside of property lines, in lakes in driveways, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, "green" areas.
- Contractor shall verify all underground utilities prior to commencement of work. Contractor shall secure locates from utilities prior to any excavation.
- Contractor shall install pop-up sprinklers 6" from edge of sidewalk, 12" from walls and edge of road or parking area. Install sprinkler on risers 18" from sidewalk, walls and edge of road or parking area.
- Irrigation system design is diagrammatic to improve clarity. All mainline piping, electric valves and wiring are to be installed in landscape areas and within Right of Way boundaries.
- If required, the Irrigation Contractor shall provide the necessary "Right of Way" use permits.
- Install bubblers on all large trees and palms.
- Size all pipe to insure flow velocity is under 5 feet per second.
- Pipe sizes shall conform to those on the drawings. Substituting with smaller pipe sizes will not be permitted.
- Mainline is to be installed with a minimum of 18" depth of cover. Lateral lines are to be installed with a minimum of 12" depth of cover. Pipes crossing drives and parking areas shall have minimum 24" depth of cover.
- All pop-up sprinkler heads shall be installed level and flush to grade.
- All sleeves shall be 2 nominal pipe sizes larger than the size of the pipe to be accommodated. All pipe crossings over 5 feet in length shall be installed inside PVC pipe sleeving.
- The irrigation contractor shall prepare an AS-BUILT drawing on reproducible paper showing all installation that deviates from these drawings. The AS-BUILT drawings shall locate all main line piping, control wires and valves by showing exact measurements from hard surfaces.
- Any other equipment required that is not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- The final location of all components shall be approved by the project engineer.



Landscape Architect of Record



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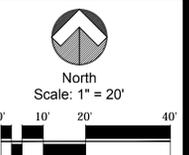
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Lake Park, Florida

Landscape Architect of Record

Jason M. Litterick, PLA
LA0001677

DESIGNED _____ CLS
DRAWN _____ CLS
APPROVED _____ JML
JOB NUMBER _____
DATE _____ 4/4/2016
REVISIONS _____ 6/10/2016
7-29-16



April 4, 2016

IRRIGATION SYSTEM

PART 1-GENERAL

1.01 SCOPE OF WORK:

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

- A. ALL PIPING, INCLUDING MAINS, LATERALS, FITTINGS, CONNECTIONS, TEES, RISERS, CLAMPS, SWING JOINTS.
- B. ALL CONTROL, GATE, OR OTHER VALVES, INCLUDING VALVE BOXES, MARKERS, CONNECTIONS, BACKFLOW PREVENTERS, OPERATORS, AND OTHER ACCESSORIES.
- C. COMPLETE AUTOMATIC CONTROL SYSTEM AS SHOWN ON THE DRAWINGS, INCLUDING CONTROLLER, CONTROL WIRING CONNECTIONS AND ELECTRICAL CONNECTIONS.
- D. ALL SPRINKLER HEADS, INCLUDING PROPER NOZZLES AS CALLED FOR HEREIN AND SHOWN ON THE PLANS AND ALL OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR PROPER OPERATION.
- E. ALL EXCAVATION, SITE WORK, RELOCATION OR REPLACEMENT OF UTILITIES, BACK FILL, AND RESTORATION OF ALL DISTURBED AREAS INCLUDING THE CUTTING, BACK FILLING AND RESURFACING OF ANY ASPHALT AREAS TRENCHED FOR PIPES AND SLEEVING.
- F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERABLE SYSTEM FOR THE IRRIGATION OF ALL LANDSCAPING ON THE PROJECT SITE. PLANS AND SPECIFICATIONS MAY NOT INDICATE ALL ITEMS NECESSARY FOR THE PROPER IRRIGATION OF THE PROJECT. THIS SHALL NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY TO FURNISH LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND PROPER SYSTEM.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING HEAD LOCATION AND ANY OTHER SYSTEM COMPONENTS TO INSURE 100% COVERAGE AND TO COMPLY WITH THE REQUIREMENTS OF THE LANDSCAPING AS INSTALLED.

1.02 SUBMITTALS:

- A. THE CONTRACTOR SHALL MAKE ALL SUBMITTALS IN ACCORDANCE WITH THE GENERAL CONDITIONS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRODUCT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. INCLUDE OTHER DATA AS MAY BE REQUIRED TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS.
- B. SUBMIT MANUFACTURER'S TECHNICAL DATA AND INSTALLATION INSTRUCTIONS FOR THE IRRIGATION SYSTEM.
- C. PROVIDE AND KEEP UP TO DATE A COMPLETE SET OF DRAWINGS, CORRECTED DAILY TO SHOW CHANGES IN THE LOCATION OF SPRINKLERS, CONTROLLERS, PUMPS, PIPING, AND OTHER DEVIATIONS FROM THE IRRIGATION DESIGN DRAWING. SHOW REMOTE CONTROL VALVE LOCATIONS WITH ACTUAL MEASUREMENTS TO REFERENCE POINTS SO THEY MAY BE LOCATED EASILY IN THE FIELD. UPON COMPLETION OF THE WORK, FURNISH THE OWNER WITH A COMPLETE SET OF PLANS SHOWING THE IRRIGATION SYSTEM AS INSTALLED.
- D. ALL DIMENSIONS INDICATED FOR THE IRRIGATION DESIGN ARE APPROXIMATE. PRIOR TO PROCEEDING WITH THE WORK, CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL VARIATIONS FROM THOSE INDICATED IN THE IRRIGATION PLAN TO THE OWNER IN WRITING.

1.03 GENERAL REQUIREMENTS

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

1.04 DELIVERY, STORAGE AND HANDLING

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

PART 2 - MATERIALS

2.01 PIPE

- A. ALL PIPE SHALL BE NEW AND FREE FROM DEFECTS, AND CONTINUOUSLY MARKED WITH IDENTIFICATION OF THE MANUFACTURER, TYPE, CLASS AND SIZE.
- B. PLASTIC PIPE FOR THE MAIN WATER LINES, AND ALL SLEEVES, SHALL BE SCHEDULE 40 UNPLASTICIZED POLYVINYL CHLORIDE PIPE, SOLVENT WELD TYPE, FOR USE WITH SCHEDULE 40 PVC FITTINGS. PLASTIC PIPE USED FOR LATERALS SHALL BE CLASS 200 PSI SDR (MINIMUM) UNPLASTICIZED POLYVINYL PIPE, TYPE 1120 OR 1220, SOLVENT WELD TYPE. FITTINGS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE PVC, MINIMUM OF SCHEDULE 40. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM CLEAN, VIRGIN, NSF APPROVED TYPE 1, GRADE 1, PVC, CONFORMING TO ASTM RESIN SPECIFICATIONS D1784 AND D2241.

C. ALL TAPS ON MAIN OR LATERALS SHALL BE MADE WITH TEES. ALL NON-THREADED TYPE JOINTS SHALL BE SOCKET TYPE, DESIGNED FOR SOLVENT TYPE APPLICATION.

D. PRIOR TO THE CONNECTION OF ANY JOINT WITH PVC GLUE, THE FITTING AND PIPES SHALL BE TREATED WITH A HIGH ETCH PVC CLEANER. THE CLEANER AND SOLVENT USED SHALL BE COMPATIBLE WITH THE PVC PIPE USED. SCREW JOINTS SHALL BE MADE WITH AN ACCEPTABLE SCREW JOINT PIPE JOINT COMPOUND. UPON COMPLETION OF GLUE JOINTS, THE IRRIGATION SYSTEM SHALL REMAIN OUT OF SERVICE FOR THE PERIOD OF TIME SPECIFIED BY THE GLUE MANUFACTURER.

E. ALL SLEEVES SHALL BE 2 NOMINAL PIPE SIZES LARGER THAN THE SIZE OF PIPE TO BE ACCOMMODATED.

2.03 CONTROL LINES

- A. ELECTRIC CONTROL WIRE - ALL ELECTRIC CONTROL AND GROUND WIRE SHALL BE NOT LESS THAN 14 GAUGE. ALL WIRING TO BE USED FOR CONNECTION TO THE AUTOMATIC REMOTE VALVES TO THE AUTOMATIC CONTROLLER SHALL BE TYPE "UF", 600 VOLT, SOLID CONDUCTOR, SINGLE CONDUCTOR WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE.
- B. INSULATION SHALL BE 4/64" THICK MINIMUM COVERING FOR POSITIVE WATERPROOF PROTECTION OF SIZES AWG SIZE 18 THROUGH AND INCLUDING AWG SIZE 10. AWG SIZE 8 THROUGH SIZE 00 SHALL BE INSULATED WITH 5/64" THICK MINIMUM COVERING.
- C. VERIFICATION OF WIRE TYPES AND INSTALLATION PROCEDURES SHALL BE CHECKED TO CONFORM TO LOCAL CODES.
- D. PULSE CIRCUIT WIRES SHALL BE RED IN COLOR AND COMMON WIRE SHALL BE WHITE.

2.04 CONTROL EQUIPMENT

- A. AUTOMATIC CONTROLLER WITH A WEATHER SENSOR, SHALL BE AS NOTED ON DRAWINGS. THE CONTROLLER SHALL BE SECURELY MOUNTED AS NOTED IN THE DRAWINGS.
- B. AUTOMATIC CONTROL VALVES SHALL BE AS NOTED ON THE DRAWINGS. ALL VALVES SHALL BE SIZED AS NOTED ON THE DRAWINGS. VALVE BOXES SHALL BE SIZED LARGE ENOUGH TO ALLOW REPAIR OF THE VALVE WITHOUT REQUIRING ITS REMOVAL FROM THE VALVE BOX.

2.05 SPRINKLER HEADS

- A. PROVIDE ALL SPRINKLERS AS SHOWN ON IRRIGATION DESIGN DRAWINGS, OR AN EQUAL ACCEPTED IN WRITING.
- B. ALL SPRINKLER NOZZLES SHALL PERFORM TO THE MANUFACTURERS SPECIFICATIONS CONCERNING DIAMETER OF THROW AND GALLONAGE AT GIVEN PRESSURES.

PART 3 - EXECUTION

3.01 TRENCHING

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

3.02 BACK FILLING

- A. BACK FILL OVER-EXCAVATION OF TRENCHES UNDER PIPE WITH CLEAN, SANDY FILL MATERIAL, FREE OF ORGANIC MATERIALS AND OBJECTS LARGER THAN 1/4" DIAMETER. BACK FILL ONLY AFTER PRESSURE TESTING.
- B. BACK FILL TRENCHES FROM 2" ABOVE TOP OF PIPE UP TO FINISH GRADE WITH CLEAN SANDY FILL MATERIAL REMOVED BY EXCAVATION.
- C. INSTALL WIRE IN TRENCH WITH PIPE, TAPING WIRE TO PIPE AT 10 FOOT INTERVALS.
- D. NO PAVEMENT EXCEPT AS NOTED, SHALL BE CUT TO INSTALL IRRIGATION WORK. COORDINATE WITH PAVING OPERATION TO ASSURE ALL SLEEVES ARE INSTALLED UNDER DRIVES AND WALKWAYS PRIOR TO PAVING.

3.03 INSTALLATION

- A. INSTALL ALL MATERIALS AND EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIALS. THE OWNER RETAINS THE RIGHT TO ORDER REMOVAL OF REPLACEMENT OF ANY ITEM WHICH, IN HIS OPINION, DO NOT PRESENT A REASONABLE NEAT AND WORKMANLIKE APPEARANCE. PERFORM AND COMPLETE ANY REQUIRED REMOVAL AND REPLACING OF MATERIALS WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- B. INDIVIDUALLY SLEEVE ALL PVC PIPING THAT CROSS WALKWAYS AND PATHWAYS MORE THAN 5" IN WIDTH. ALL SLEEVES UNDER ROADWAYS AND WALKWAYS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE.
- C. INSTALL ALL VALVE BOXES, OR ANY OTHER MISCELLANEOUS MARKER OR ACCESS BOX SO THE TOP OF SAID STRUCTURE IS AT FINISHED GRADE UNDER LAID WITH A MINIMUM OF 6" OF 3/4" GRAVEL. INSTALL ALL VALVE BOXES AS INDICATED ON DRAWINGS.
- D. ADJUST AUTOMATIC CONTROL VALVES TO PROVIDE FLOW RATE OF RATED OPERATING PRESSURE REQUIRED FOR EACH SPRINKLER CIRCUIT.
- E. INSTALL ELECTRIC REMOTE CONTROL VALVES AS INDICATED ON THE DRAWINGS AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- F. ADJUST FLOW CONTROL STEM ON ALL REMOTE CONTROL ZONE VALVES TO MINIMIZE ANY OVER PRESSURIZATION BEFORE ANY INDIVIDUAL NOZZLE ADJUSTMENTS ON THE SPRINKLERS ARE PERFORMED.

3.04 PIPING

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

3.05 SPRINKLERS

- A. PRIOR TO INSTALLING SPRINKLER HEADS, FLUSH CIRCUIT LINES WITH WATER UNTIL FREE OF DEBRIS.
- B. ALL SPRINKLER HEADS SHALL BE INSTALLED ON SWING JOINT AS SHOWN ON THE DRAWINGS. THE SPRINKLER HEAD SHALL BE INSTALLED SO THAT THE TOP IS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION WITH RESPECT TO THE FINISHED GRADE LEVEL, AND MARKED WITH A FLAG TO ASSIST IN PREVENTING DAMAGE TO SPRINKLER HEADS. BACK FILL AROUND SWING JOINTS AND SPRINKLERS SHALL BE CLEAN SAND FILL MATERIAL FREE OF ROCKS, ORGANICS, OR OTHER FOREIGN DEBRIS.
- C. LOCATE PART-CIRCLE HEADS TO MAINTAIN A MINIMUM DISTANCE OF 12" FROM WALLS AND 6" FROM OTHER BOUNDARIES, UNLESS OTHERWISE INDICATED.
- D. ALL BUBBLERS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE TREE TO BE IRRIGATED. IF THE TREE IS LOCATED ON A SLOPE, THE BUBBLER SHOULD BE LOCATED AT THE TREE BALL NEAR THE HIGH SIDE OF THE SLOPE.

3.06 ELECTRICAL COMPONENTS

- A. SIZE ALL ELECTRIC CONTROL WIRE AS PREVIOUSLY STATED, INSTALL IN THE PIPING TRENCHES WHEREVER POSSIBLE AND PLACE UNDER THE PVC PIPING. TAPE CONTROL WIRES TOGETHER WITH ELECTRICAL TAPE NOT MORE THAN 10 FEET O.C. SNAKE WIRE INTO THE TRENCH AS LOOSE AS POSSIBLE AND WITH AS MUCH SLACK AS POSSIBLE TO ALLOW FOR THE EXPANSION AND CONTRACTION OF THE WIRE.
- B. CONNECTIONS AT ALL REMOTE CONTROL VALVES AND AT ALL WIRE SPLICES, LEAVE WIRE WITH SUFFICIENT SLACK SO THAT IN CASE OF REPAIR THE VALVE BONNET OR SPLICE MAY BE BROUGHT TO THE SURFACE WITHOUT DISCONNECTING THE WIRES. SPLICE ALL WIRE IN VALVE BOXES. MAKE SPLICES USING UL LISTED WATERPROOF WIRE CONNECTORS AS RECOMMENDED BY THE WIRE MANUFACTURER.
- C. PROVIDE WIRE SIZES TO REMOTE CONTROL VALVES NOT LESS THAN 14 GAUGE. CONNECT ALL REMOTE CONTROL VALVES, WHICH ARE TO BE CONNECTED TO THE SAME CONTROLLER, TO A COMMON GROUND WIRE OF A SIZE NOT LESS THAN 14 GAUGE. PROVIDE EACH INDIVIDUAL CONTROLLER WITH A SEPARATE COMMON GROUND WIRE WIRE SYSTEM ENTIRELY INDEPENDENT OF THE COMMON GROUND WIRE SYSTEM OF ALL OTHER CONTROLLERS. CONNECT ONLY THOSE REMOTE CONTROL VALVES THAT ARE BEING CONTROLLED BY ONE SPECIFIC CONTROLLER, TO THAT CONTROLLER'S COMMON GROUND WIRE SYSTEM. THE CONTROL VALVE CONFIGURATION PIPING SHALL NOT BE OF THE PREFABRICATED TYPE BUT SHALL BE MANUFACTURED IN THE FIELD ONLY USING SCHEDULE 80 NIPPLES AND COUPLINGS. INSTALL ALL VALVES IN VALVE BOXES.
- D. INSTALL ALL VALVE BOXES SO THAT THE TOPS OF ALL BOXES ARE LEVEL WITH EACH OTHER AND THE SIDES OF ALL BOXES ARE PARALLEL TO EACH OTHER.
- E. INSTALL ALL CONTROLLERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER OF EQUIPMENT WITH LOCATION OF ALL CONTROLLERS APPROVED BY THE OWNER BEFORE THE ACTUAL INSTALLATION OF THE CONTROLLERS.
- F. INSTALL LIGHTNING PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO PROTECT EACH AUTOMATIC CONTROLLER.
- G. USE DIELECTRIC FITTINGS AT CONNECTION WHERE PIPES OF DISSIMILAR METAL ARE JOINED.

3.07 TESTS

- A. PERFORM OPERATIONAL TESTING AFTER BACK FILL IS IN PLACE, AND SPRINKLER HEADS ARE ADJUSTED TO FINAL POSITION. DEMONSTRATE TO OWNER THAT SYSTEM MEETS COVERAGE REQUIREMENTS AND THAT AUTOMATIC CONTROLS FUNCTION PROPERLY. COVERAGE REQUIREMENTS ARE BASED ON OPERATION OF ONE CIRCUIT AT A TIME.
- B. AFTER COMPLETION OF GRADING, SEEDING OR SODDING, AND ROLLING OF GRASS AREAS, CAREFULLY ADJUST LAWN SPRINKLER HEADS SO THAT THEY WILL BE FLUSH WITH FINISH GRADE.
- C. ADJUST THE VARIOUS COMPONENTS OF THE SPRINKLER SYSTEM SO THE OVERALL OPERATION OF THE SYSTEM IS EFFICIENT. BALANCING AND ADJUSTMENT SHALL INCLUDE A SYNCHRONIZATION OF THE CONTROLLERS, WATER QUALITY CONTROL EQUIPMENT, SPRINKLER HEADS, AND INDIVIDUAL STATION ADJUSTMENTS ON THE CONTROLLERS.
- D. UPON COMPLETION OF THE WORK AND FINAL ACCEPTANCE BY THE OWNER, TRAIN MAINTENANCE PERSONNEL IN THE OPERATION, MAINTENANCE, AND REPAIR OF THE SYSTEM. PROVIDE COPIES OF MATERIALS, ALL PARTS LISTS, TROUBLE SHOOTING LISTS, SPECIFICATIONS SHEETS, AND CATALOG SHEETS TO THE SCHEDULES AND PROGRAMMING OF THE AUTOMATIC CONTROLLERS IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR IRRIGATION DRAWINGS. SUBMIT ALL WARRANTY INFORMATION TO OWNER.

3.08 WARRANTY

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

Landscape Architect of Record



**Litterick
Landscape
Architecture**

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Spacebox Lake Park, LLC
Lake Park, Florida

Landscape Architect of Record

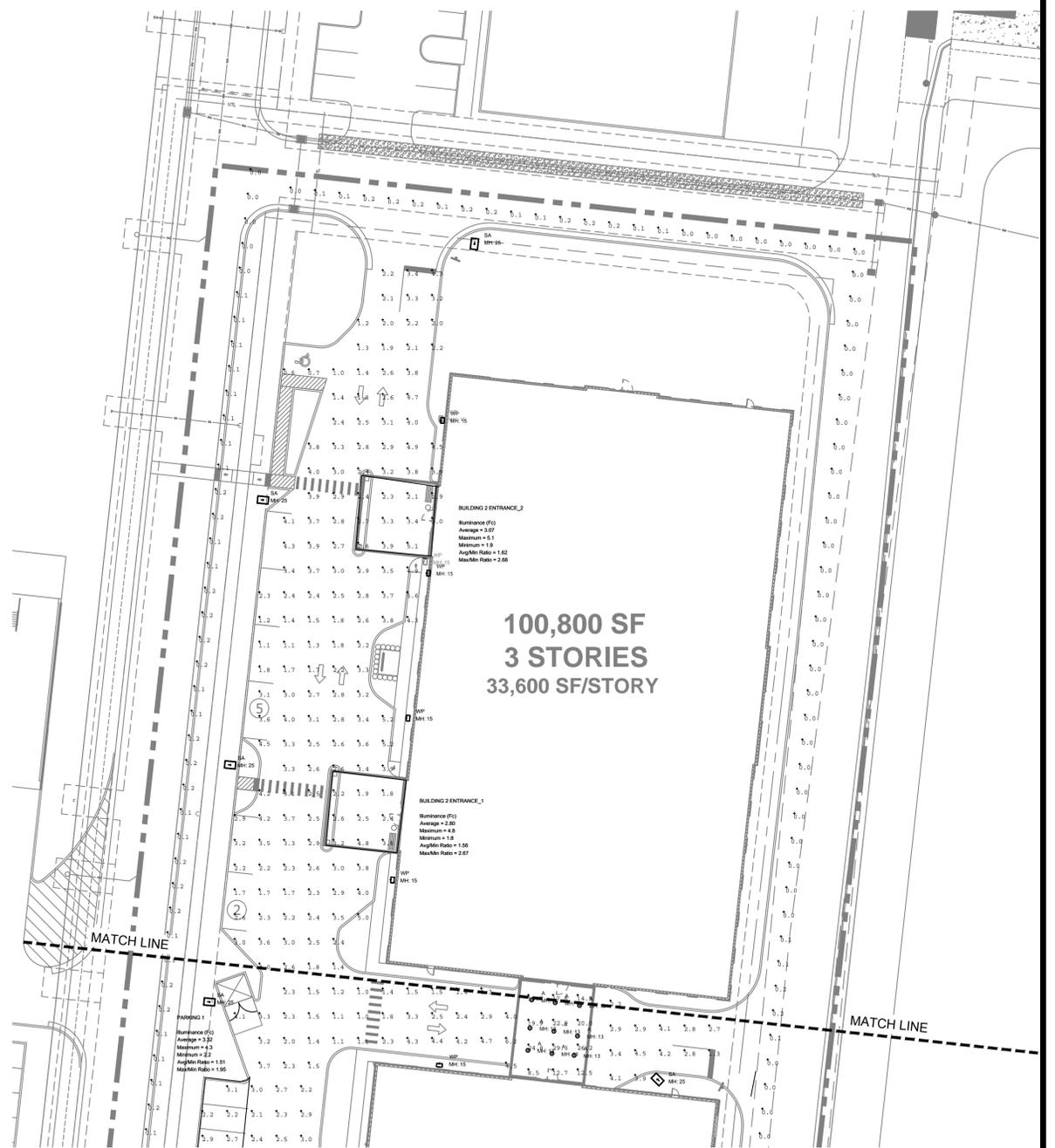
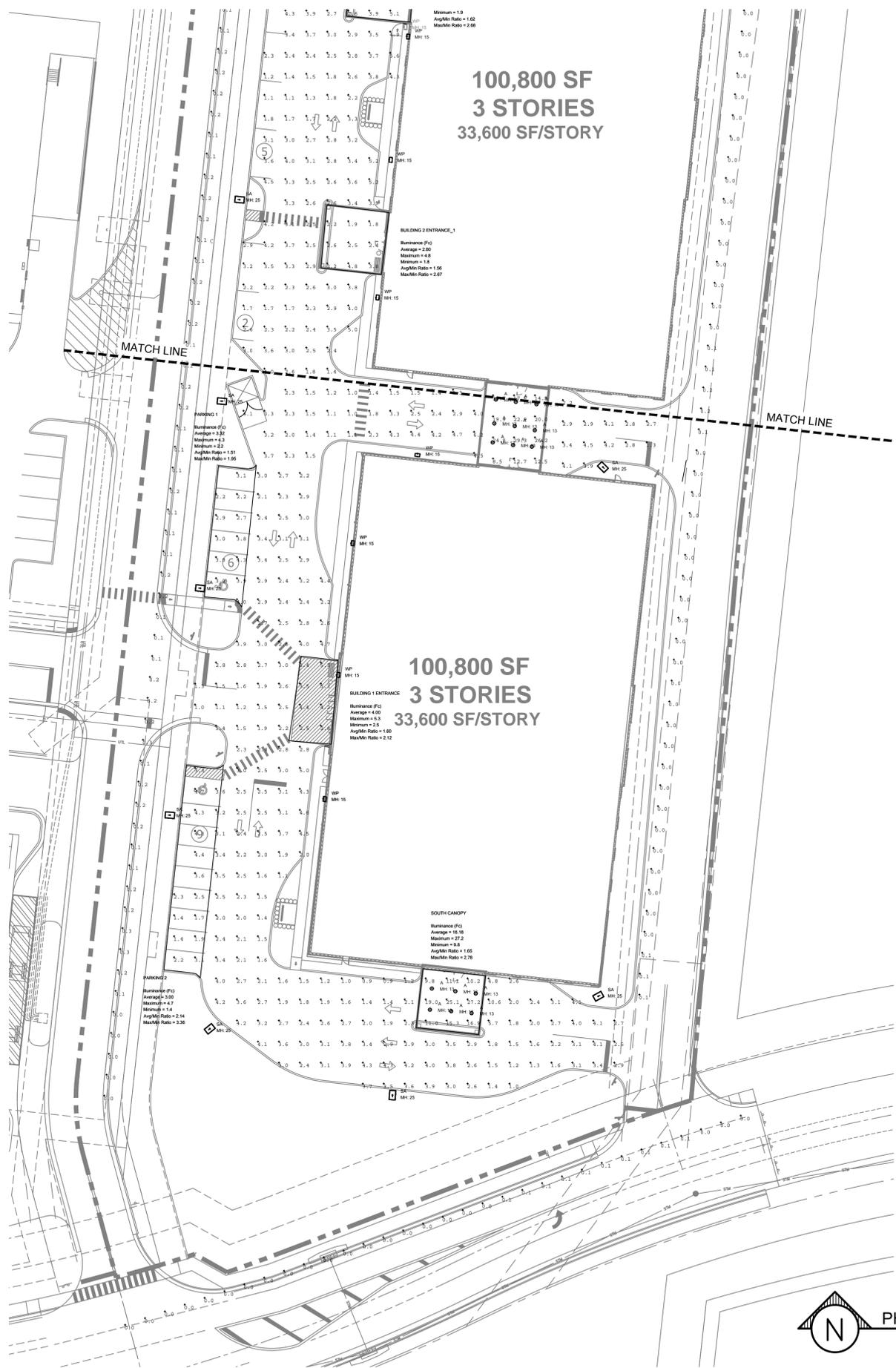
Jason M. Litterick, PLA
LA0001677

DESIGNED	CLS
DRAWN	CLS
APPROVED	JML
JOB NUMBER	
DATE	4/4/2016
REVISIONS	6/10/2016
	7-29-16

April 4, 2016

IR3 of 3

PHASE II IRRIGATION SPECIFICATIONS



Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Lum. Watts	Arr. Watts
□	8	WP	SINGLE	N.A.	0.950	CREE CAT # SEC-EDG-4M...08-D-UL-700-40K or BXSE_408D-UD7 (700mA)	133	133
○	10	SA	SINGLE	N.A.	0.950	CREE CAT # ARE-EDG-4MB...14-E-UL-525-40K (525mA)	229	229
○	15	A	SINGLE	N.A.	1.000	ESA-ADR-8-28-D-WD-LM-27V-525-35K (525mA)	52	52

Label	Calc/Type	Units	Avg	Max	Min	Avg/Min	Max/Min
BUILDING 2 PARKING	Illuminance	Fc	2.81	6.2	0.5	4.68	10.33
EAST ENTRANCE	Illuminance	Fc	3.22	4.5	1.3	2.48	3.48
LIGHTING SPILL EAST PROPERTY LIN	Illuminance	Fc	0.02	0.2	0.0	N.A.	N.A.
LIGHTING SPILL NORT PROPERTY LIN	Illuminance	Fc	0.10	0.2	0.0	N.A.	N.A.
LIGHTING SPILL ON PARK AVE	Illuminance	Fc	0.03	0.1	0.0	N.A.	N.A.
LIGHTING SPILL WEST PROPERTY LIN	Illuminance	Fc	0.13	0.3	0.0	N.A.	N.A.
NORTH CANOPY	Illuminance	Fc	18.73	29.3	8.5	2.29	3.45
SITE	Illuminance	Fc	3.34	27.2	0.9	3.71	30.22
BUILDING 1 ENTRANCE	Illuminance	Fc	4.00	5.3	2.5	1.60	2.12
BUILDING 2 ENTRANCE_1	Illuminance	Fc	2.80	4.8	1.8	1.56	2.67
BUILDING 2 ENTRANCE_2	Illuminance	Fc	3.07	5.1	1.9	1.62	2.68
PARKING 1	Illuminance	Fc	3.32	4.3	2.2	1.51	1.95
PARKING 2	Illuminance	Fc	3.00	4.7	1.4	2.14	3.36
SOUTH CANOPY	Illuminance	Fc	16.18	27.2	9.8	1.65	2.78

PHOTOMETRIC PLAN
 SCALE 1" = 30'-0"

PHASE II PHOTOMETRIC PLAN

E&C Engineers
Cert. of Auth # 26556
 2755 Vista Parkway Suite 1-3
 West Palm Beach, FL 33411
 Tel (561) 712 1149
 email: ed@ecengineers.com

Eduardo (Ed) Samour, P.E.
 Registered Electrical Engineer
 P.E. # 41186
 Date: 8.8.2016

iPLAN & DESIGN
 PLANNER
 SITE DESIGN
 DEVELOPMENT CONSULTANT
 5090 PGA Blvd.
 Suite 212
 Palm Beach Gardens,
 Florida 33458
 561.797.4217
 bchequis@gmail.com

Spacebox Lake Park, LLC Site Plan Lake Park, Florida

DESIGNED: BC
 DRAWN: _____
 APPROVED: _____
 JOB NUMBER: _____
 DATE: _____
 REVISIONS: _____

North
 Scale: 1" = 30'

MAR 15, 2016

Cree Edge™ Series

LED Area/Flood Luminaire

Product Description
The Cree Edge Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weatherlight LED driver compartment and high performance aluminum heat sinks. Various mounting choices: Adjustable Arm, Direct Arm, Direct Arm Long, Spike or Side Arm (details on page 2). Includes a half/double guard.
Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary
Utilizes BetaLED™ Technology
Patented NanoOptic™ Product Technology
Made in the U.S.A., U.S.S. and imported parts
CRI: Minimum 70 CRI
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard
Limited Warranty: 10 years on luminaire/10 years on Colorfast DefaulGuard™ finish

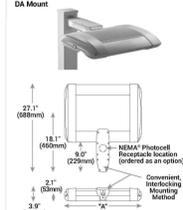
Accessories

Field Number	Accessories
01	Black/White Shade
02	40-500K-4 Heat Sink
03	Adjustable Arm
04	Adjustable Arm
05	Adjustable Arm
06	Adjustable Arm
07	Adjustable Arm
08	Adjustable Arm
09	Adjustable Arm
10	Adjustable Arm
11	Adjustable Arm
12	Adjustable Arm
13	Adjustable Arm
14	Adjustable Arm
15	Adjustable Arm
16	Adjustable Arm
17	Adjustable Arm
18	Adjustable Arm
19	Adjustable Arm
20	Adjustable Arm
21	Adjustable Arm
22	Adjustable Arm
23	Adjustable Arm
24	Adjustable Arm

Ordering Information

Example: ARE-EDG-2M-AA-12-E-UL-SV-300

Product	Optic	Mounting	LED Count (x10)	Series	Color	Drive	Options
ARE-EDG-2M-AA-12-E-UL-SV-300	2M	AA	12	E	UL	SV	300



SEC-EDG-4M/4MB-WM

Cree Edge™ Security Wall Pack Luminaire - Type IV Medium - Wall Mount

Product Description
Slim, low profile design. Luminaire and cap in rugged die cast aluminum with integral, weatherlight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing in rugged aluminum. Finished with low cost powder coating. Mounting bracket designed for installation over standard and most ring ranging 2-8 inches. Secure to wall with four 5/16" (8mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wire (includes leaf & debris guard).

Performance Summary
Utilizes BetaLED™ Technology
Patented NanoOptic™ Product Technology
Made in the U.S.A., U.S.S. and imported parts
CRI: Minimum 70 CRI
CCT: 3700K (+/- 500K) Standard, 4000K (+/- 300K)
Limited Warranty: 10 years on luminaire/10 years on Colorfast DefaulGuard™ finish

Accessories

Field Number	Accessories
01	Black/White Shade
02	40-500K-4 Heat Sink
03	Adjustable Arm
04	Adjustable Arm
05	Adjustable Arm
06	Adjustable Arm
07	Adjustable Arm
08	Adjustable Arm
09	Adjustable Arm
10	Adjustable Arm
11	Adjustable Arm
12	Adjustable Arm
13	Adjustable Arm
14	Adjustable Arm
15	Adjustable Arm
16	Adjustable Arm
17	Adjustable Arm
18	Adjustable Arm
19	Adjustable Arm
20	Adjustable Arm
21	Adjustable Arm
22	Adjustable Arm
23	Adjustable Arm
24	Adjustable Arm

Ordering Information

Example: SEC-EDG-4M-WP-Q2-E-UL-SV-300

Product	Optic	Mounting	LED Count (x10)	Series	Color	Drive	Options
SEC-EDG-4M-WP-Q2-E-UL-SV-300	4M	WP	Q2	E	UL	SV	300



ESSENTIA™

INTERIOR LED

ESA-ADR-614-C-ADJ

LED Adjustable Downlight - Round 6" Aperture

DESCRIPTION
Adjustable recess luminaire with 6" round aperture, designed for 14 High output LEDs maximum. Optical assembly consists of a light engine and a low brightness Alcon™ aluminum ring-cut parabolic case with no hotspots at maximum aiming angle. Three light distributions available - narrow spot, narrow spot and narrow.

FEATURES
• Luminaire uses 14 High output LEDs. Tolerances to be within a 2 step Mcham Elipse. See table for specific color tolerance (at right).
• Tilted Alcon™ and/or Alcon™ IR case optic on each individual LED to maximize light delivery through aperture.
• Low brightness parabolic spot Alcon™ aluminum case, 0.00" thick with polished radius and continuous wall flange.
• Settable Glow Clear finish, standard.
• Torison springs for ease of installation and proper trim alignment.
• 360° rotation and 30° maximum vertical adjustment.
• Positive locking system assures correct focus and proper position.
• 2" aperture throat to accommodate all standard and set-back ceilings and provide flexibility in mounting within grid.
• Castable housing to optimize cooling of LEDs.
• Provided with quick mounting brackets for optional ceiling channels.
• High Efficiency constant current drivers, 120-277VAC input, 20mA drive current.
• 0-10V dimming, standard, 100%-10% full range continuous dimming.
• Light engine, optic, and driver accessible from below ceiling.
• UL/DUL listed for three-wire 60/240V-0/10°C and dimmable luminaire.
• Thermally protected.

COMPANION LUMINAIRES
LED Downlight
ESA-ADR-620-C-WD-SGZFF
LED Lensed Wallwash
ESA-ADR-614-C1-WW-SGZFF

Color Tolerance

LED Count (x10)	Dim. 2"
Q2	9.2" (233mm)
Q4	11.8" (300mm)
Q6	13.8" (350mm)
Q8	15.3" (388mm)
Q10	17.3" (439mm)
Q12	19.3" (493mm)

Recommended Ceiling Offset 6-12"

Color Tolerance

LED Count (x10)	Dim. 2"
Q2	9.2" (233mm)
Q4	11.8" (300mm)
Q6	13.8" (350mm)
Q8	15.3" (388mm)
Q10	17.3" (439mm)
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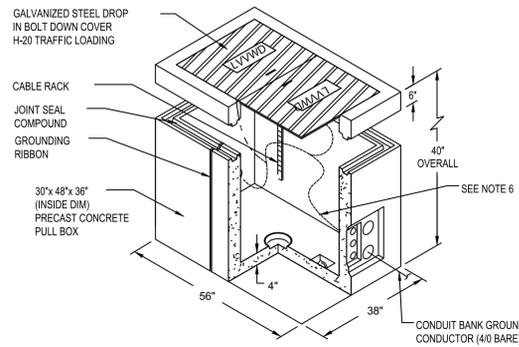
LED Count (x10)	Dim. 2"
Q2	9.2" (233mm)
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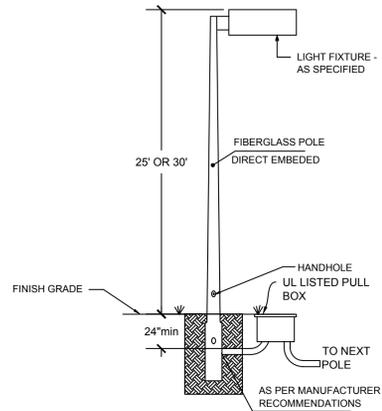


NOTES:

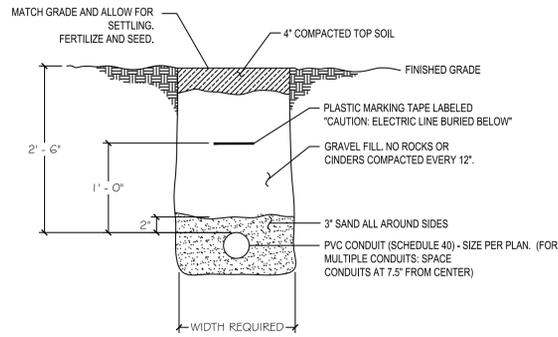
- ENTIRE PULLBOX AND CONDUIT INSTALLATION SHALL BE CLEAN AND DRY AT TIME OF ACCEPTANCE.
- BACKFILL AROUND PULLBOX WITH TYPE II AGGREGATE BASE (208.02.04) COMPACTED TO 95% MAX DENSITY.
- APPLY SILICONE RTV TO CONDUIT ENTRANCE AFTER CONDUCTORS HAVE BEEN INSTALLED. ALL CONDUIT ENTRIES SHALL HAVE END BELLS FLUSH TO INTERIOR OF PULLBOX.
- INSTALL 2" DIA x 2" DEEP DRAIN GRAVEL PACK UNDER 3" DRAIN HOLE AND COVER.
- ROUTE GROUND CONDUCTORS THROUGH PULLBOX AS REQUIRED PER PLAN.
- PROVIDE 4" GROUND WIRE LOOP TO GROUND ALL METALLIC PULLBOX COMPONENTS. LABEL WIRE "PULLBOX GROUND LOOP", CADWELD 5" GREEN #4 GROUND LOOP AND TO COVERS.
- PROVIDE PARTITION INSIDE PULLBOX TO SEPARATE POWER FROM DATA / CONTROL WIRING.

1 PULLBOX WITH SIDE PENETRATION DETAIL
N.T.S.

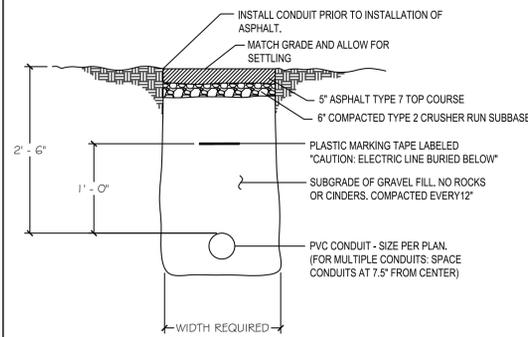
NOTE:
POLE SUPPLIER SHALL CERTIFY THAT POLE, BASE, & FIXTURE MEETS 160 MPH WIND LOAD CRITERIA AND SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A REGISTERED FLORIDA ENGINEER.



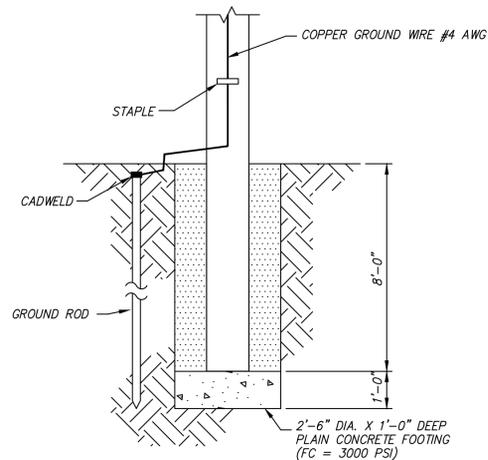
4 TYPICAL POLE DETAIL
N.T.S.



2 CONDUIT TRENCH DETAIL - GRASS AREAS
N.T.S.

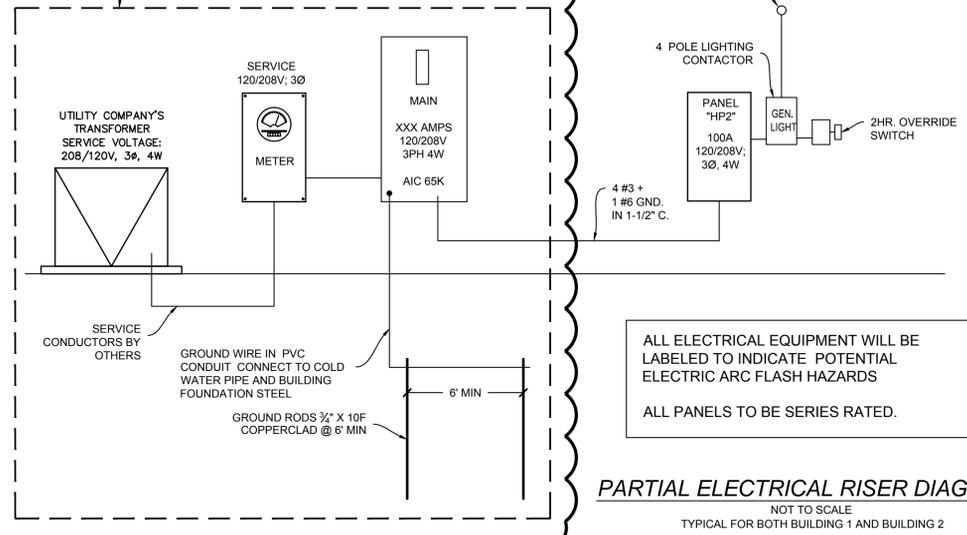


3 CONDUIT TRENCH DETAIL - PAVED AREAS
N.T.S.



5 EMBEDDED POLE GROUNDING DETAIL
N.T.S.

BY OTHERS DURING CONSTRUCTION DOCUMENTS PHASE



ALL ELECTRICAL EQUIPMENT WILL BE LABELED TO INDICATE POTENTIAL ELECTRIC ARC FLASH HAZARDS
ALL PANELS TO BE SERIES RATED.

PARTIAL ELECTRICAL RISER DIAGRAM
NOT TO SCALE
TYPICAL FOR BOTH BUILDING 1 AND BUILDING 2

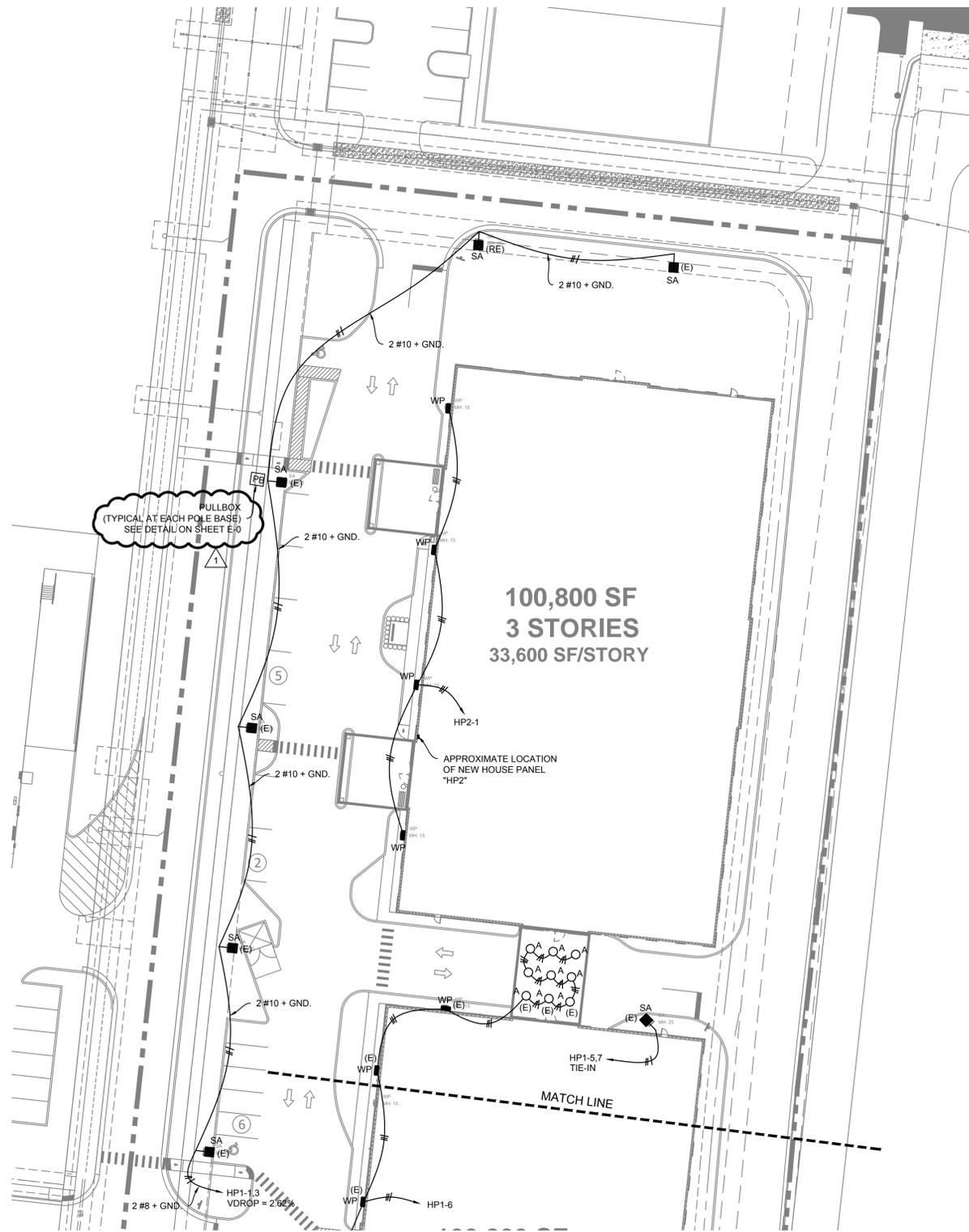
PANEL HP1										
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		---				
VOLTAGE (L-L):		208		MOUNTING:		SURFACE				
PHASES, WIRES:		3 Ø 4 W		AIC RATING (A):		10000				
MINIMUM BUS CAPACITY (A):		100 A		NOTES:		---				
MAIN O.C. DEVICE (A):		100 A								
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO
1.3	SITE LIGHTING	20	2	684	0	0	2	20	SPARE	2.4
5.7	SITE LIGHTING	20	2	570	2005	0	570	1312	1	20
9	SITE LIGHTING	20	1	0	0	2005	3	35	IRRIGATION PUMP	8,10,12
11	---	20	1	0	0	0	3	35	IRRIGATION PUMP	8,10,12
13	---	20	1	0	0	0	1	20	---	14
15	---	20	1	0	0	0	1	20	---	16
17	---	20	1	0	0	0	1	20	---	18
19	---	20	1	0	0	0	1	20	---	20
21	---	20	1	0	0	0	1	20	---	22
23	---	20	1	0	0	0	1	20	---	24
25	---	20	1	0	0	0	1	20	---	26
27	---	20	1	0	0	0	1	20	---	28
29	---	20	1	0	0	0	1	20	---	30
				CONNECTED LOAD PHASE TOTALS (VA)						
				3259	2889	3887				
CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD		SPARE CAPACITY		12.3 KVA
Motors		1.00		0.0		23.7 KVA		65.9 AMPS		
Motors (Largest)		1.25		7.5		66 %				
Lighting		1.25		4.8		PHASE BALANCE				
						A TO B		83 %		
						B TO C		69 %		
						C TO A		84 %		
TOTAL LOAD (AMPS):		9.8		12.3						
		27.3		34.1						

- NOTES:**
- ALL WIRING TO BE AWG THWN #12 UNLESS NOTED OTHERWISE.
 - SEE ELECTRICAL PLAN FOR CONDUIT AND WIRE SIZES AND QUANTITIES.

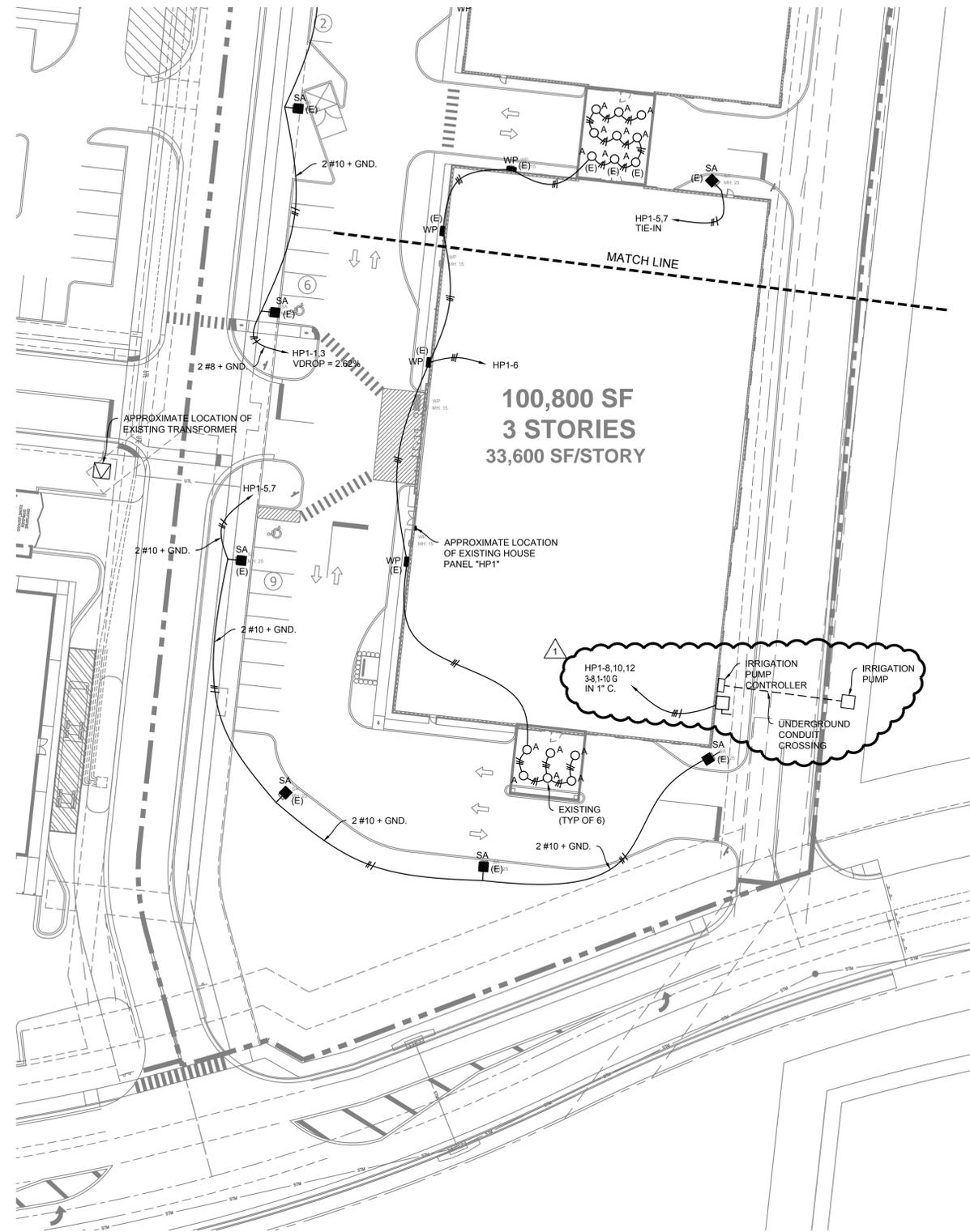
PANEL HP2										
VOLTAGE (L-N):		120		ENCLOSURE TYPE:		---				
VOLTAGE (L-L):		208		MOUNTING:		SURFACE				
PHASES, WIRES:		3 Ø 4 W		AIC RATING (A):		10000				
MINIMUM BUS CAPACITY (A):		100 A		NOTES:		---				
MAIN O.C. DEVICE (A):		100 A								
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO
1	SITE LIGHTING	20	1	532	0	0	1	20	---	2
3	---	20	1	0	0	0	1	20	---	4
5	---	20	1	0	0	0	1	20	---	6
7	---	20	1	0	0	0	1	20	---	8
9	---	20	1	0	0	0	1	20	---	10
11	---	20	1	0	0	0	1	20	---	12
13	---	20	1	0	0	0	1	20	---	14
15	---	20	1	0	0	0	1	20	---	16
17	---	20	1	0	0	0	1	20	---	18
19	---	20	1	0	0	0	1	20	---	20
21	---	20	1	0	0	0	1	20	---	22
23	---	20	1	0	0	0	1	20	---	24
25	---	20	1	0	0	0	1	20	---	26
27	---	20	1	0	0	0	1	20	---	28
29	---	20	1	0	0	0	1	20	---	30
				CONNECTED LOAD PHASE TOTALS (VA)						
				532	0	0				
CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD		SPARE CAPACITY		0.7 KVA
Lighting		1.25		0.7		35.4 KVA		98.2 AMPS		
						PHASE BALANCE		98 %		
						A TO B		0 %		
						B TO C		0 %		
						C TO A		0 %		
TOTAL LOAD (AMPS):		0.5		0.7						
		1.6		1.8						

- NOTES:**
- ALL WIRING TO BE AWG THWN #12 UNLESS NOTED OTHERWISE.
 - SEE ELECTRICAL PLAN FOR CONDUIT AND WIRE SIZES AND QUANTITIES.

CODES THAT APPLY TO THIS PROJECT:
2014 FBC
2011 NFPA-70
2009 NFPA-72
2010 FLORIDA FIRE PREVENTION CODE



SITE LIGHTING ELECTRICAL PLAN
SCALE 1" = 30'-0"



SITE LIGHTING ELECTRICAL PLAN
SCALE 1" = 30'-0"

ABBREVIATIONS:

(E)	EXISTING TO REMAIN
(RE)	RELOCATED EXISTING



E & C Engineers, Inc.
Certificate of Auth. # 26558

Electrical Engineering
Commercial, Industrial, Residential,
Lighting Design, Automatic Controls

Eduardo (Ed) Samour, P.E.
Registered Electrical Engineer
P.E. # 41186
2755 Vista Parkway Suite 1-3
West Palm Beach, FL 33411
Tel (561) 712 1149
Fax (561) 712 1150

This Document has been prepared by an independent registered professional engineer.
 of the undersigned Registered Electrical Engineer
 Eduardo Samour, P.E.
 License No. 41186

**SPACEBOX
LAKE PARK, LLC**

LAKE PARK, FL

**ELECTRICAL
PLANS
PHASE 2**

Date	06/02/16
Scale	AS NOTED
Designed by	E. SAMOUR, P.E.
Drawn By:	J. HUNT
Project #:	15-2693

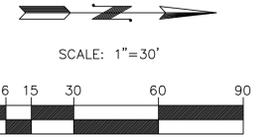
Revisions

1	BUILDING DEPT. COMMENTS 07.27.16
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A PROJECT FOR:

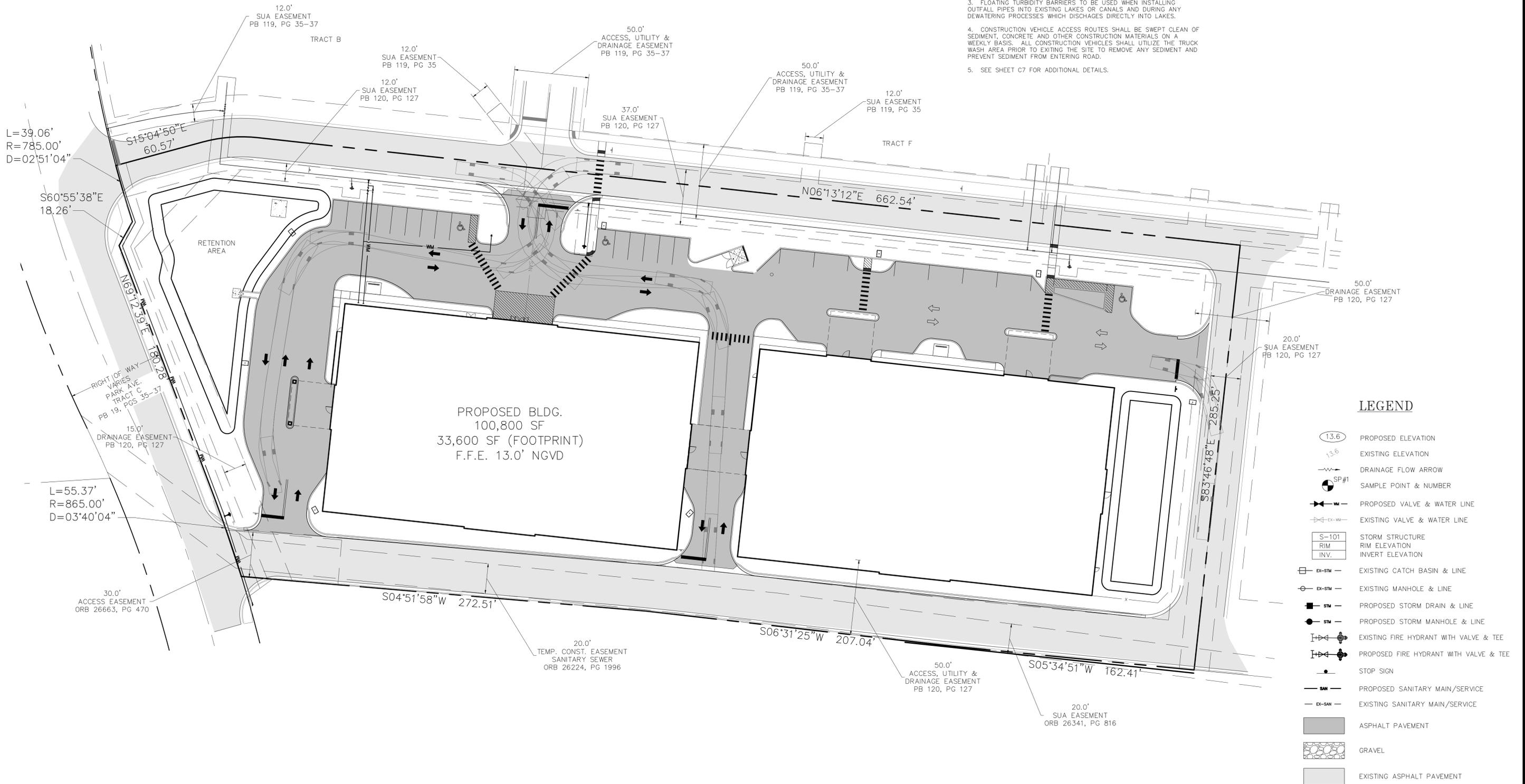


Know what's below.
Call before you dig.



NOTES:

1. ALL STORM SEWER INLET GRATES TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
2. CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNER THAT WILL PROVIDE FOR DRAINAGE TOWARD THE CENTER OF THE PROJECT AND A POLLUTION PREVENTION DEVICE. WHERE THIS IS NOT POSSIBLE SILT FENCES WILL BE PROVIDED SUCH THAT ALL RUNOFF FROM THE SITE WILL PASS THRU A POLLUTION PREVENTION DEVICE PRIOR TO DISCHARGE.
3. FLOATING TURBIDITY BARRIERS TO BE USED WHEN INSTALLING OUTFALL PIPES INTO EXISTING LAKES OR CANALS AND DURING ANY DEWATERING PROCESSES WHICH DISCHARGES DIRECTLY INTO LAKES.
4. CONSTRUCTION VEHICLE ACCESS ROUTES SHALL BE SWEEPED CLEAN OF SEDIMENT, CONCRETE AND OTHER CONSTRUCTION MATERIALS ON A WEEKLY BASIS. ALL CONSTRUCTION VEHICLES SHALL UTILIZE THE TRUCK WASH AREA PRIOR TO EXITING THE SITE TO REMOVE ANY SEDIMENT AND PREVENT SEDIMENT FROM ENTERING ROAD.
5. SEE SHEET C7 FOR ADDITIONAL DETAILS.



SMILEY & ASSOCIATES, INC.
1928 COMMERCE LANE, SUITE 2, JUPITER, FLORIDA 33458
561-747-8335 • msmiley@smiley-associates.com
www.smiley-associates.com
EB # 6613

MARK C. SMILEY, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 54864
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK C. SMILEY, P.E. ON 8/8/16 USING A SHA-1 AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REV.	DESCRIPTION	APRV.	DATE

REVISION NOTES

SPACEBOX LAKE PARK
FOR
SPACEBOX LAKE PARK, LLC
LAKE PARK, FLORIDA

FIRE ROUTE - PHASE 2

DATE	8/8/16
DRT	DRT
DSG	MS
CHK	MS
CADDWG	005PLAN

8/8/16

ATA 2
SHEET TYPE
SHEET 1 OF 1
JOB # 16-005