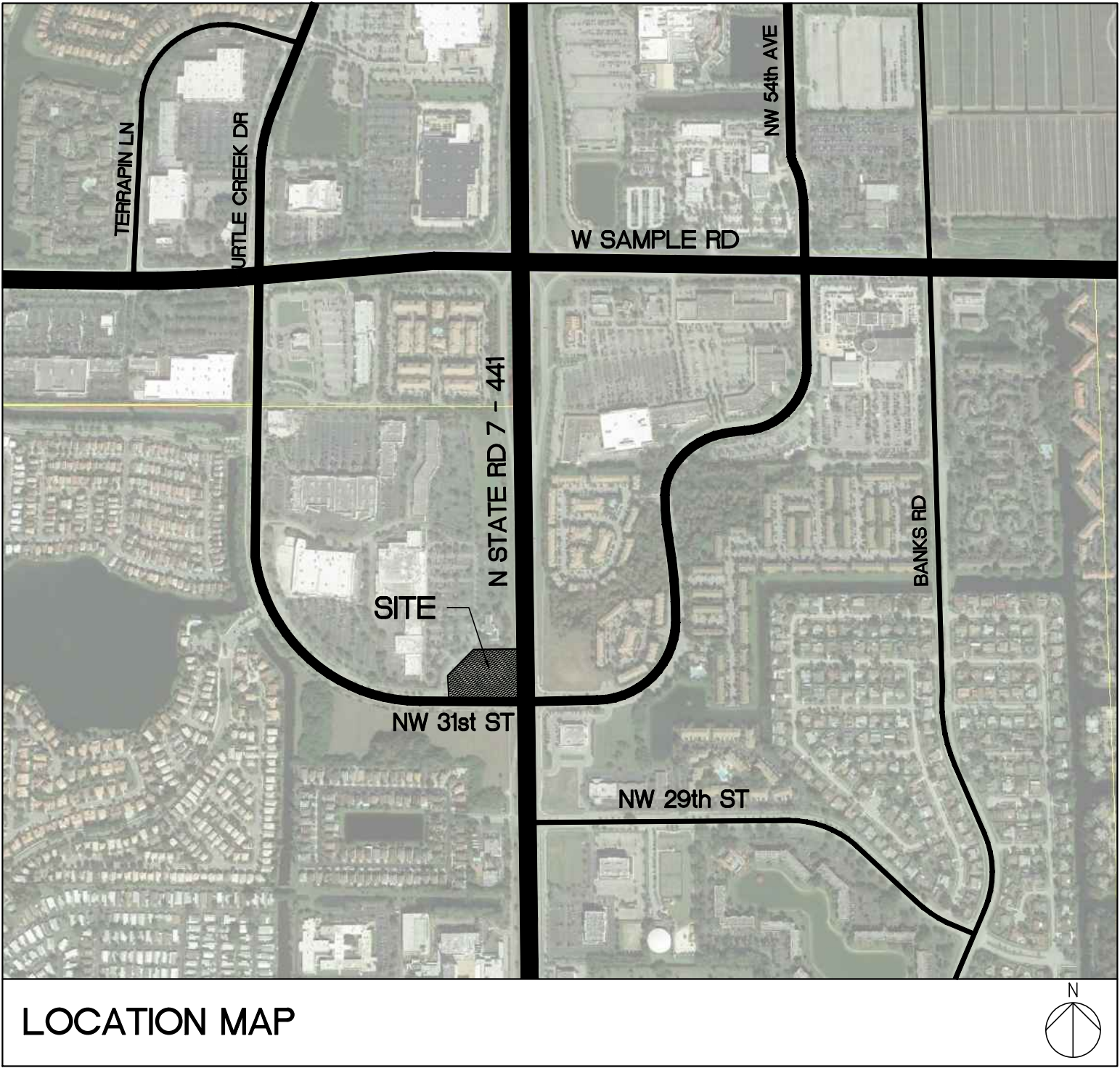


MARGATE RETAIL EXPANSION

D.R.C SITE PLAN APPROVAL

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063



LOCATION MAP

D.R.C.
SUBMITTAL
04.25.2016

PROJECT DESCRIPTION:

THESE DOCUMENTS DESCRIBE THE SITE IMPROVEMENT MODIFICATIONS (PARKING & PROPOSED ATM TELLER) AND THE ADDITION OF A 3,100 SQUARE FOOT, 1-STORY RETAIL BUILDING.

PROJECT TEAM:

CLIENT: THE LEDER GROUP
4755 TECHNOLOGY WAY
SUITE #203
BOCA RATON, FLORIDA 33431
PH: 561.995.7878
FAX: 561.995.9181

ARCHITECT: RLC ARCHITECTS, P.A.
14 SOUTHEAST 4TH STREET
BOCA RATON, FLORIDA 33432
PH: 561.393.6555
FAX: 561.395.0007

MEP: FAE CONSULTING
700 WEST HILLSBORO BLVD
BUILDING #1, SUITE #204
DEERFIELD BEACH, FLORIDA 33441
PH: 561.391.9292

LANDSCAPE : ARCHITECTURAL ALLIANCE LANDSCAPE
612 SOUTHWEST 4TH AVENUE FORT LAUDERDALE, FLORIDA 33315
PH: 954.764.8858

CIVIL: DIVERSIFIED CONSTRUCTION AND ENGINEERING SERVICES
2295 NORTHWEST CORPORATE BOULEVARD
SUITE 125 BOCA RATON, FLORIDA 33431
PH: 561.750.3717

LAND-USE ATTORNEY : GREENSPOON MARDER LAW
200 EAST BROWARD BOULEVARD SUITE 1500 FORT LAUDERDALE, FLORIDA 33301
PH: 954.761.2929

LIST OF DRAWINGS:

A0.00 COVER SHEET
SURVEY
1 OF 1 ALTA / ACSM SURVEY

CIVIL
C-1 CONCEPTUAL SITE ENGINEERING PLAN

ARCHITECTURAL
AS1.00 DEMOLITION SITE PLAN
AS1.10 PROPOSED SITE PLAN
AS1.20 SITE DETAILS
AS1.30 ENLARGED FLOOR PLAN
AS1.40 EXTERIOR ELEVATIONS
AS1.50 EXTERIOR ELEVATIONS

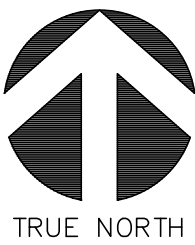
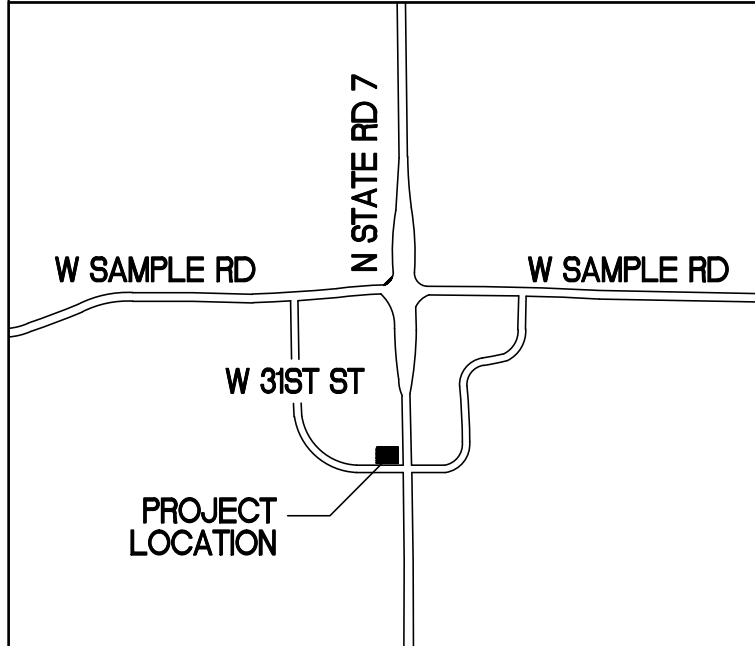
ELECTRICAL
EPD.1 PHOTOMETRIC DETAIL & NOTES
EPI.1 SITE PHOTOMETRIC PLAN

LANDSCAPE
TD-1 TREE DISPOSITION PLAN
LP-1 LANDSCAPE PLAN
LP-2 LANDSCAPE NOTES AND DETAILS
IR-1 IRRIGATION PLAN
IR-2 IRRIGATION DETAILS
IR-3 IRRIGATION NOTES

ISSUE DATES:

D.R.C. SUBMITTAL 04.25.2016

LOCATION MAP

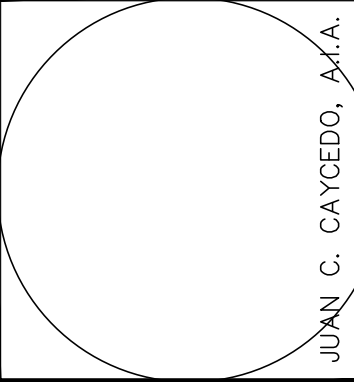


D.R.C.
SUBMITTAL
04.25.2016

RLC Architects

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Tel: 561.393.6555 Fax: 561.395.0007
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MARGATE RETAIL
BUILDING EXPANSION

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

REVISIONS

Drawing Title
COVER SHEET

Scale
Project No. 15015.00
Date 04.25.2016

Principal: JCC
Project Director:
Project Manager:
Drafted by: BC
Checked by: BRE

Sheet No.

A0.00

LEGAL DESCRIPTION:

PARCEL I:

ALL THOSE TRACTS, PIECES AND PARCELS OF LAND SITUATE IN BROWARD COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

A PARCEL OF LAND IN "MARGATE PLAZA NO. 1", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 132, AT PAGE 50, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHERNMOST SOUTHEAST CORNER OF SAID PLAT; THENCE NORTH 01°00'34" WEST ALONG THE EASTERLY LINE OF SAID PLAT AND ALONG THE WESTERLY RIGHT-OF-WAY OF STATE ROAD #7 (D.O.T. R/W MAP #86100-2549), A DISTANCE OF 162.00 FEET; THENCE SOUTH 88°59'26" WEST, A DISTANCE OF 165.00 FEET; THENCE SOUTH 51°00'02" WEST, A DISTANCE OF 150.99 FEET; THENCE SOUTH 06°10'16" WEST, A DISTANCE OF 120.00 FEET; THENCE NORTH 88°59'26" EAST ALONG THE SOUTHERLY LINE OF SAID PLAT AND ALONG THE NORTHERLY RIGHT-OF-WAY LINE OF NORTHWEST 31ST STREET, A DISTANCE OF 249.00 FEET; THENCE NORTH 43°59'26" EAST, A DISTANCE OF 70.71 FEET TO THE POINT OF BEGINNING.

PARCEL II:

EASEMENTS FOR THE BENEFIT OF PARCEL I AS CREATED BY DECLARATION OF RECIPROCAL EASEMENT AND OPERATING AGREEMENT FILED AUGUST 26, 1988 IN OFFICIAL RECORDS BOOK 15727, PAGE 657, FOR THE PURPOSES DESCRIBED IN THAT AGREEMENT OVER, UNDER AND ACROSS THE LAND DESCRIBED THEREIN, SUBJECT TO THE TERMS, PROVISIONS AND CONDITIONS SET FORTH IN SAID INSTRUMENT.

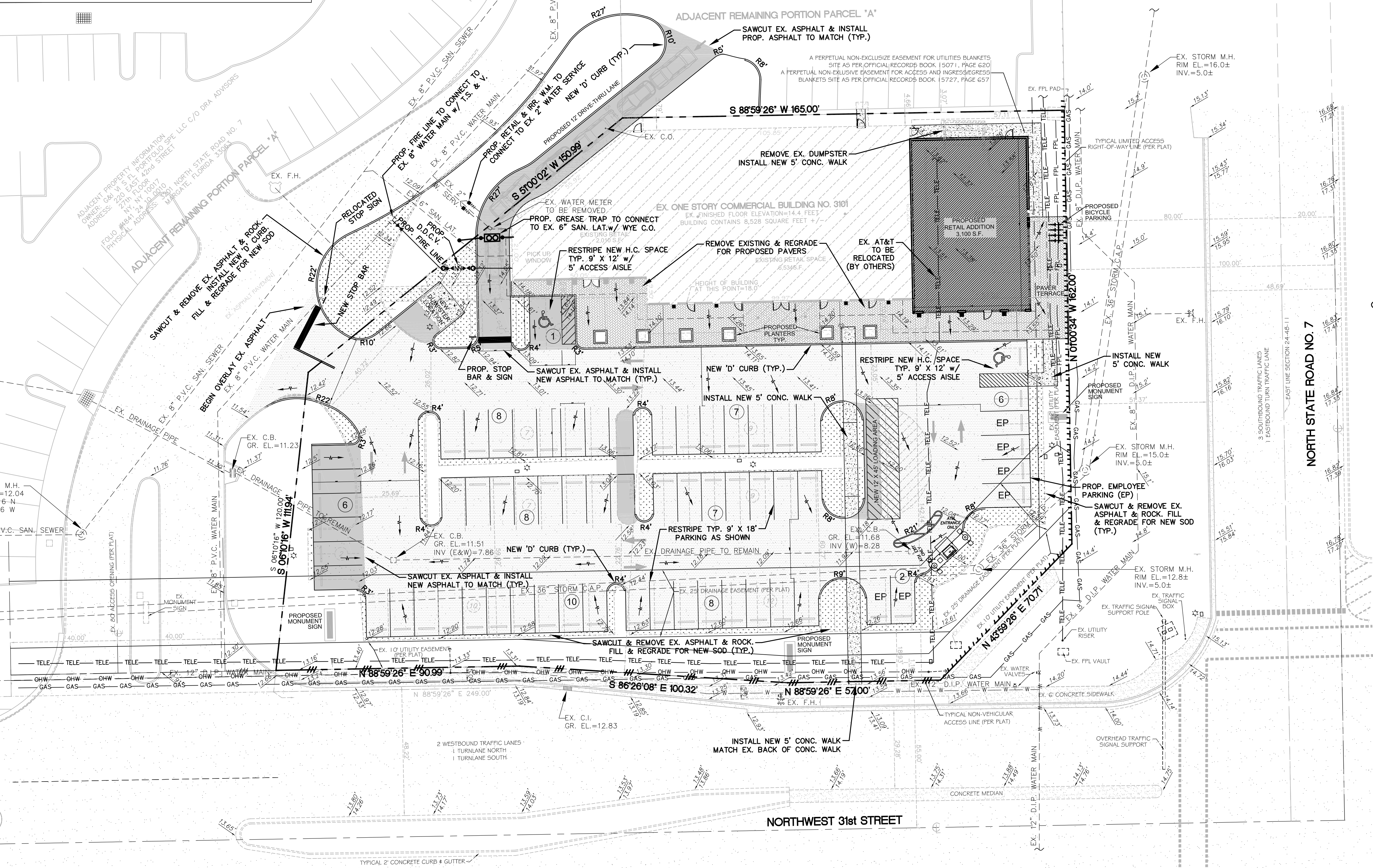
PARCEL III:

EASEMENTS FOR THE BENEFIT OF PARCEL I AS CREATED BY DECLARATION OF COVENANTS FOR WATER MANAGEMENT DATED DECEMBER 10, 1987 AND FILED IN OFFICIAL RECORDS BOOK 15071, PAGE 620, AS AFFECTED BY ASSIGNMENT OF DEVELOPERS RIGHTS FILED IN OFFICIAL RECORDS BOOK 16215, AT PAGE 314, FOR THE PURPOSES DESCRIBED IN SAID AGREEMENT OVER, UNDER AND ACROSS THE LAND MORE PARTICULARLY DESCRIBED IN SAID AGREEMENT. SUBJECT TO THE TERMS, PROVISIONS AND CONDITIONS SET FORTH IN SAID INSTRUMENT.

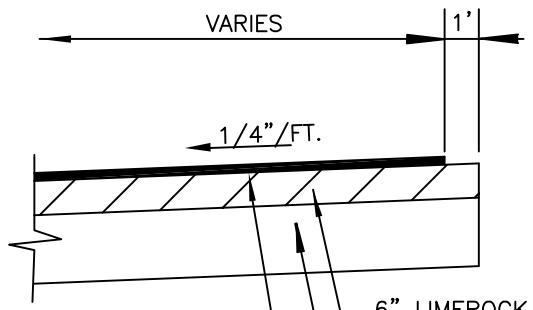
PRE
TOTAL SITE = 53,189 SF (1.22 AC)
BUILDING = 8,528 SF (0.20 AC)
IMPERVIOUS = 32,628 SF (0.75 AC)
PERVIOUS = 12,033 SF (0.28 AC)
77.3% IMPERVIOUS
22.6% PERVIOUS

VS.

POST
TOTAL SITE = 53,189 SF (1.22 AC)
BUILDING = 11,404 SF (0.26 AC)
IMPERVIOUS = 29,848 SF (0.69 AC)
PERVIOUS = 11,937 SF (0.27 AC)
77.6% IMPERVIOUS
22.4% PERVIOUS

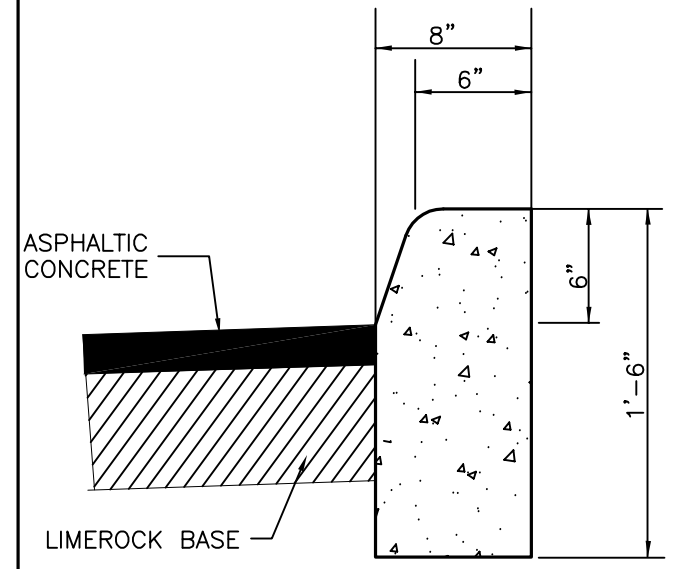


SURVEYING NOTES:
1. EXISTING ELEVATIONS AND CONDITIONS SHOWN HEREON WERE TAKEN FROM AN ALTA/ACSM SURVEY PREPARED BY KERI LAND SURVEYING; PROJECT NO. 18723 ON APRIL 4, 2013.
2. EXISTING ELEVATIONS SHOWN ARE IN FEET AND BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).
3. BENCHMARK DESCRIPTION: BROWARD COUNTY BENCHMARK NO. 2556, ELEVATION = 12.846 FEET.



1-1/2" (MIN.) COMPACTED TYPE III ASPH. CONC.
(2-3/4" LIFTS W/ TEMPORARY STRIPING THE FINAL LIFT TO BE PLACED AFTER FINAL LANDSCAPING)
6" LIMEROCK BASE, PRIMED, COMPACTED TO A MINIMUM OF 98% OF MAXIMUM DENSITY WITH A MINIMUM CALCIUM CARBONATE CONTENT OF 60%
12" SUBGRADE COMPACTED TO A MINIMUM OF 98% OF MAXIMUM DENSITY WITH AN LBR OF 40

PROPOSED PAVEMENT SECTION
N.T.S.



TYPE "D" CURB DETAIL
N.T.S.

LEGEND

- ☆ EXISTING CONCRETE LIGHT POLE
- 15.2' EXISTING GRADE
- DIRECTION OF FLOW
- EXISTING ASPHALT
- EXISTING CONCRETE
- PROPOSED BUILDING ADDITION
- REMOVE EXISTING PAVEMENT, FILL & REGRADE FOR SOD
- OVERLAY EXISTING ASPHALT
- NEW/PROPOSED ASPHALT
- PROPOSED PAVERS
- PROPOSED CONCRETE

- EP EMPLOYEE PARKING
- F.H. FIRE HYDRANT
- C.O. CLEANOUT
- M.H. MANHOLE
- C.B. CATCH BASIN
- C.I. CURB INLET
- U.E. UTILITY EASEMENT
- C.A.P. CORRUGATED ALUMINUM PIPE
- D.I.P. DUCTILE IRON PIPE
- P.V.C. POLYVINYL CHLORIDE
- C.P.P. CORRUGATED POLYETHYLENE PIPE
- D.D.C.V. DOUBLE DETECTOR CHECK VALVE

48 HOURS BEFORE DIGGING
BROWARD • PALM BEACH • INDIAN RIVER • ST. LUCIE • MARTIN COUNTIES
CALL TOLL FREE
1-800-432-4770
FOR UNDERGROUND UTILITIES NOTIFICATION AND LOCATION

DISCLAIMER:
INFORMATION SHOWN ON THIS PLAN IS A GRAPHIC REPRESENTATION ONLY, AND IS NOT TO BE USED IN LIEU OF A HORIZONTAL CONTROL PLAN.

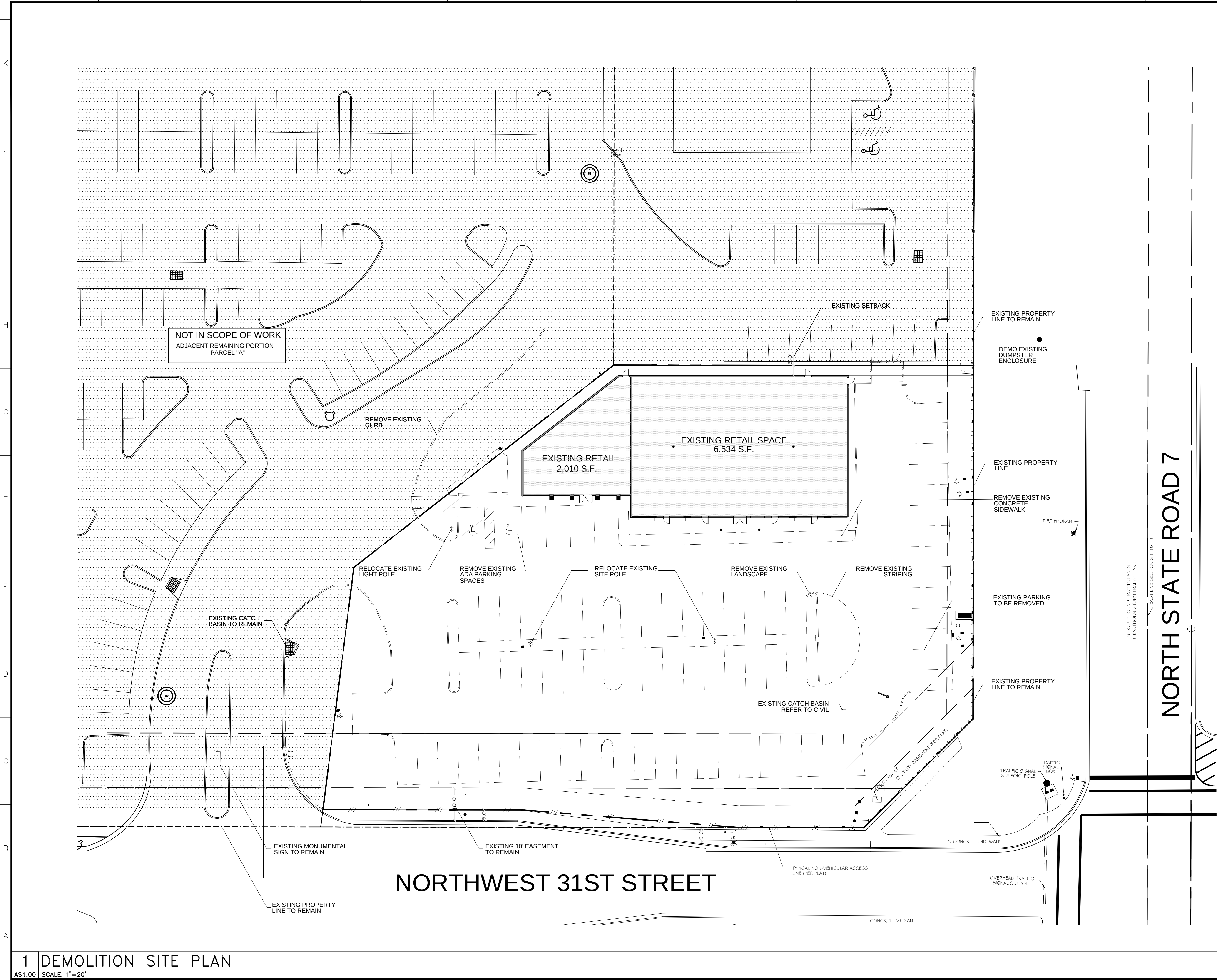
NEAL B. JANOV #21998

DIVERSIFIED CONSTRUCTION
DCES
& ENGINEERING SERVICES
2295 N.W. CORPORATE BLVD, #125, BOCA RATON, FL 33431
561-750-3717 FAX 561-750-3686
EB #6459

REVISIONS	DATE:	DWN.:	CHK.:
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

MARGATE RETAIL
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063
CONCEPTUAL SITE ENGINEERING PLAN

DCES
SCALE: 1"=20'
DATE: 4-14-16
DWN. BY: S.T.
CHK. BY: N.B.J.
F.B. PG.
JOB NO.: 2194-16
SHEET: C-1 OF 1



1 DEMOLITION SITE PLAN
AS1.00 SCALE: 1"=20'

LOCATION MAP

W SAMPLE RD
N STATE RD 7
W SAMPLE RD
W 31ST ST
PROJECT LOCATION

TRUE NORTH

D.R.C.
SUBMITTAL
04.25.2016

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JOAN C. CAYCEDO, AIA

MARGATE RETAIL
BUILDING EXPANSION
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

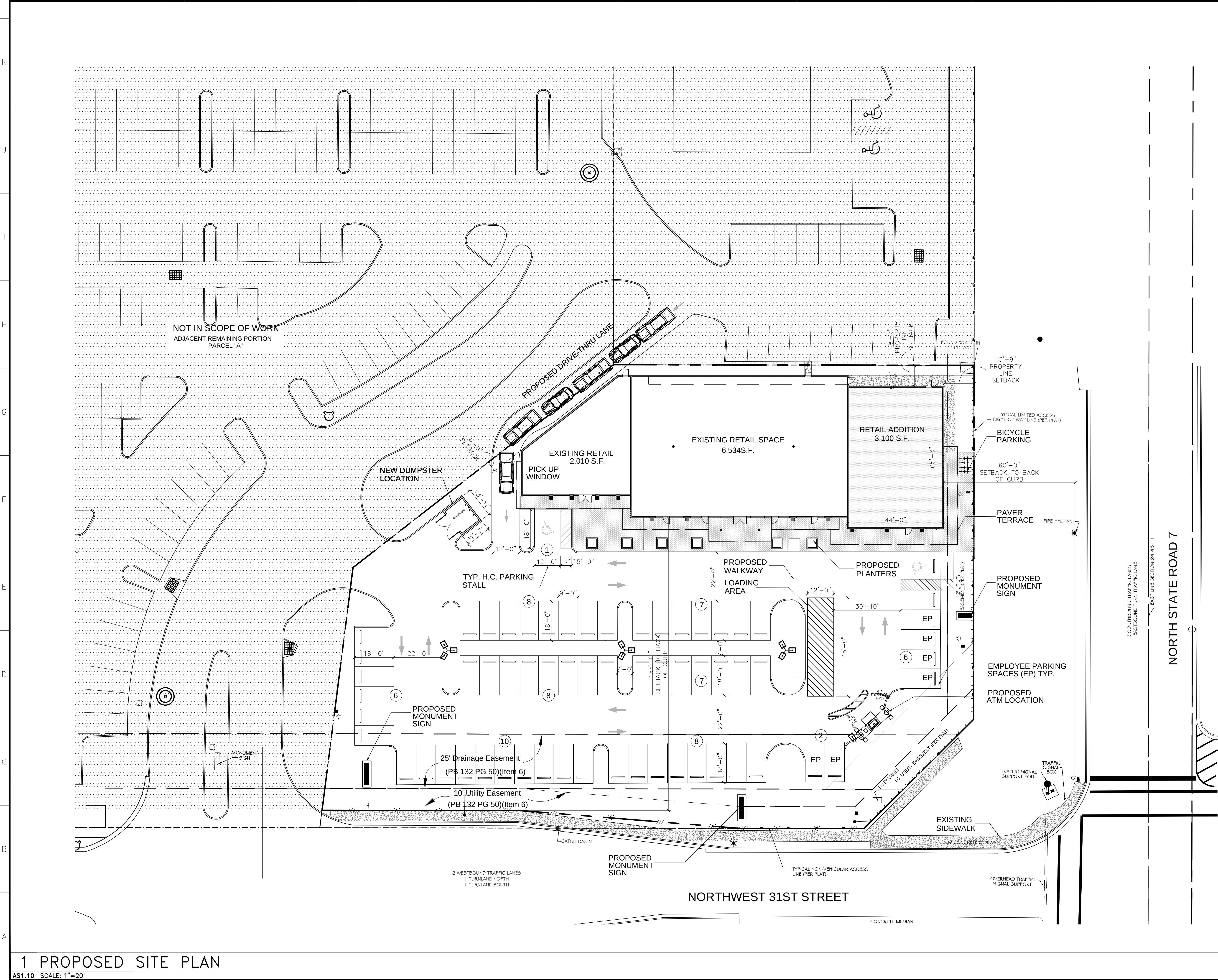
REVISIONS

Drawing Title
DEMOLITION
SITE PLAN

Scale
Project No. 15015.00
Date 04.25.2016

Principal: JCC
Project Director:
Project Manager:
Drafted by: BC
Checked by: BRE

Sheet No.
AS1.00



BUILDING NOTES		
OCCUPANCY CLASS	MERCANTILE GROUP (M)	
CONSTRUCTION TYPE	TYPE II-B	
FIRE SUPPRESSION	FIRE SPRINKLER TO BE PROVIDED AS PART OF RENOVATION	
SITE RESTRICTIONS		
	REQUIRED:	PROVIDED:
SETBACKS:		
PRIMARY FRONT	25'-0" (FROM CURB)	60'-0"
SECONDARY	25'-0" (FROM CURB)	133'-11"
SIDE YARD	N/A	5'-0"
ALLEYWAY	12'-0"	9'-7"
	ALLOWED/REQUIRED:	PROVIDED:
GROSS LOT AREA	N/A	1.22 ACRES (53,189 S.F.)
PERVIOUS AREA		11,937 SF = 22.4%
BUILDING HEIGHT	94'-0" MAX.	27'-0"
BUILDING FOOTPRINT	N/A	11,404 S.F.

ZONING NOTES	
LAND USE DESIGNATION:	TOC (TRANSIT ORIENTED CORRIDOR)
ZONING DISTRICT	TOC-G (TRANSIT ORIENTED CORRIDOR GATEWAY)
JURISDICTION	CITY OF MARGATE, FLORIDA

BUILDING AREAS		
EXISTING AREA CALCULATIONS (BEFORE ADDITION)		
EXISTING RETAIL		8,544 S.F.
SUBTOTAL		8,544 S.F.
REVISED AREA CALCULATIONS (AFTER ADDITION)		
RETAIL / MERCANTILE		3,100 S.F.
TOTAL		11,644 S.F.

PARKING CALCULATIONS		
	STANDARD	H.C.
EXISTING PARKING	74	2
PROPOSED PARKING	64 (10 REMOVED)	2
PARKING REQUIREMENTS:		
RETAIL 11,404 S.F. = 4 SPACES PER 1,000 S.F. = 45.616 SPACES = 46 SPACES REQUIRED		
TOTAL SPACES REQUIRED = 47 SPACES REQUIRED		
TOTAL SPACES PROVIDED = 63 SPACES PROVIDED		

LOCATION MAP

D.R.C. SUBMITTAL 04.25.2016

RLC Architects
14 SE 14th Street, Suite 200, Ft. Lauderdale, FL 33304
Tel: 954.393.6555 Fax: 954.393.6007
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JOAN C. CAYCEDO, AIA

MARGATE RETAIL BUILDING EXPANSION

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

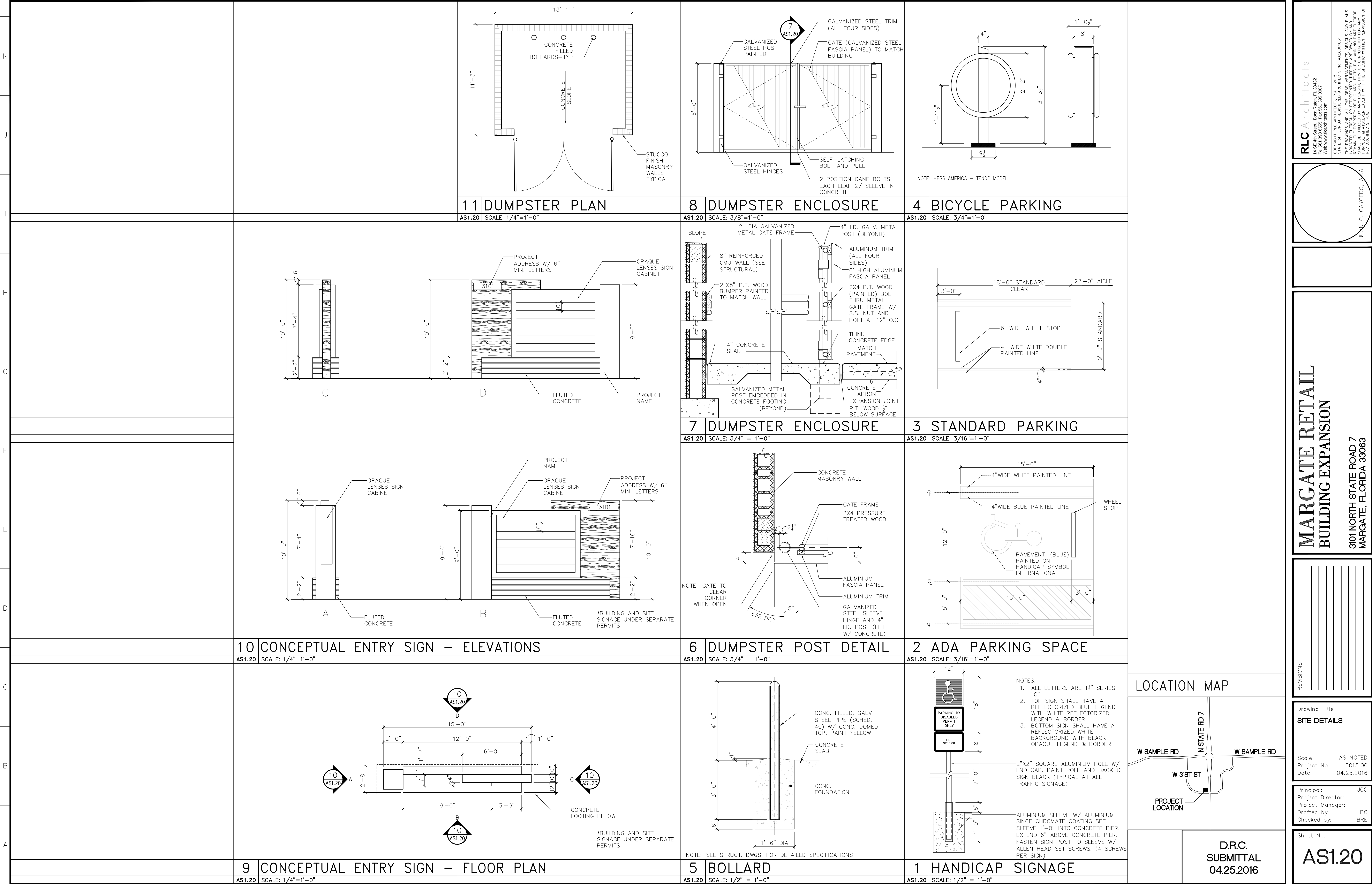
REVISIONS

Drawing Title
PROPOSED SITE PLAN

Scale
Project No. 15015.00
Date 04.25.2016

Principal: JCC
Project Director:
Project Manager:
Drafted by: BC
Checked by: BRE

Sheet No.
AS1.10



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JUN C. CAYCEDO, AIA

MARGATE RETAIL
BUILDING EXPANSION

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

REVISIONS

Drawing Title

SITE DETAILS

Scale

AS NOTED

Project No.

15015.00

Date

04.25.2016

Principal:

JCC

Project Director:

JCC

Project Manager:

BC

Drafted by:

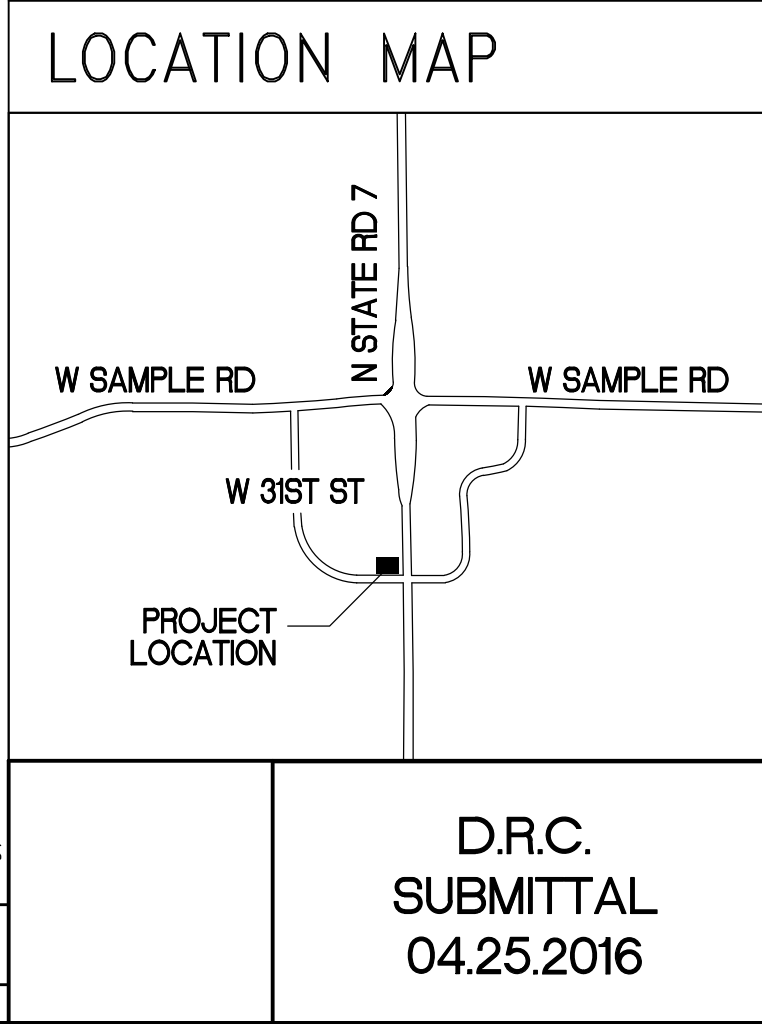
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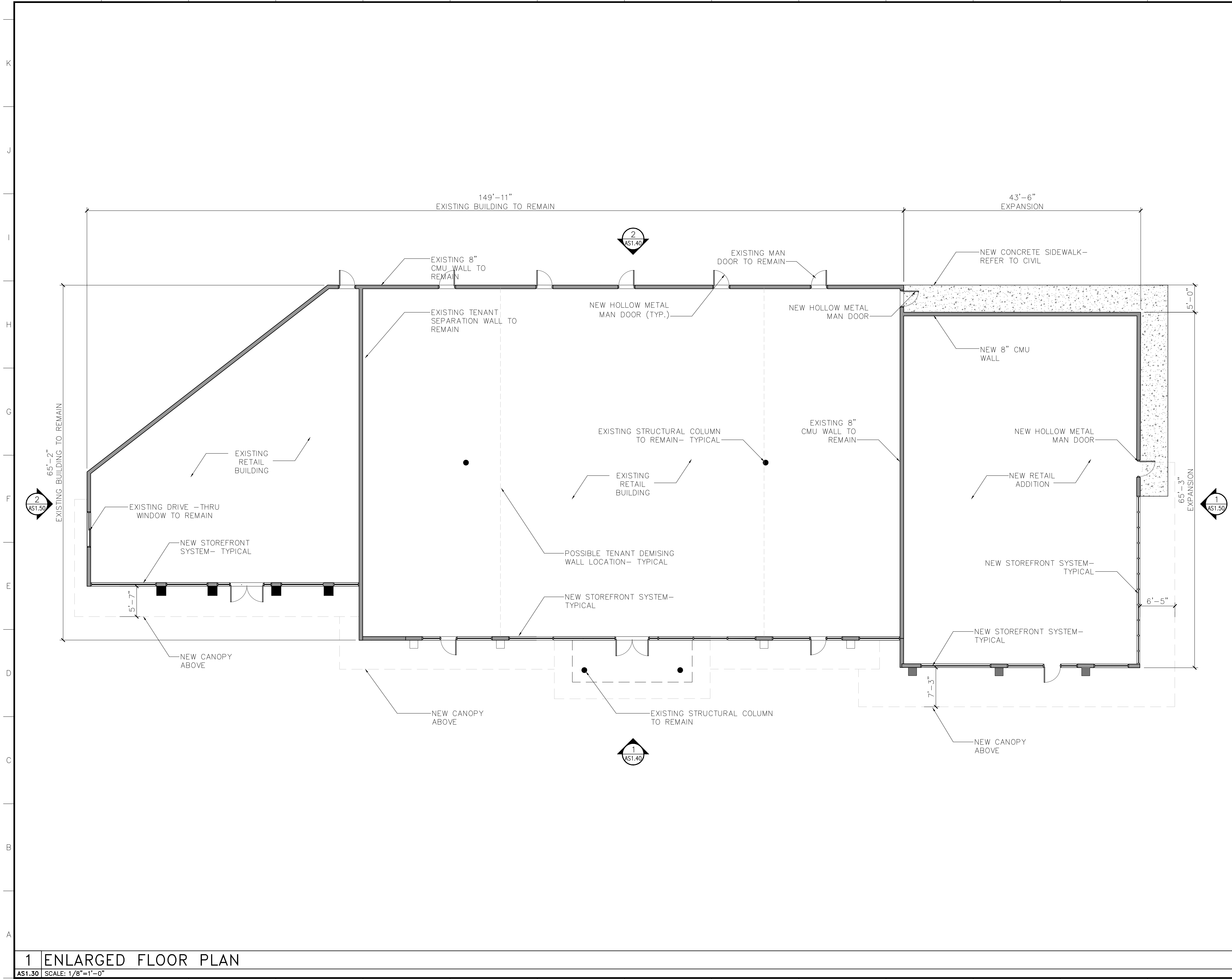
Checked by:

BRE

Sheet No.

AS1.20





LOCATION MAP

D.R.C.
SUBMITTAL
04.25.2016

1 ENLARGED FLOOR PLAN
AS1.30 SCALE: 1/8"=1'-0"

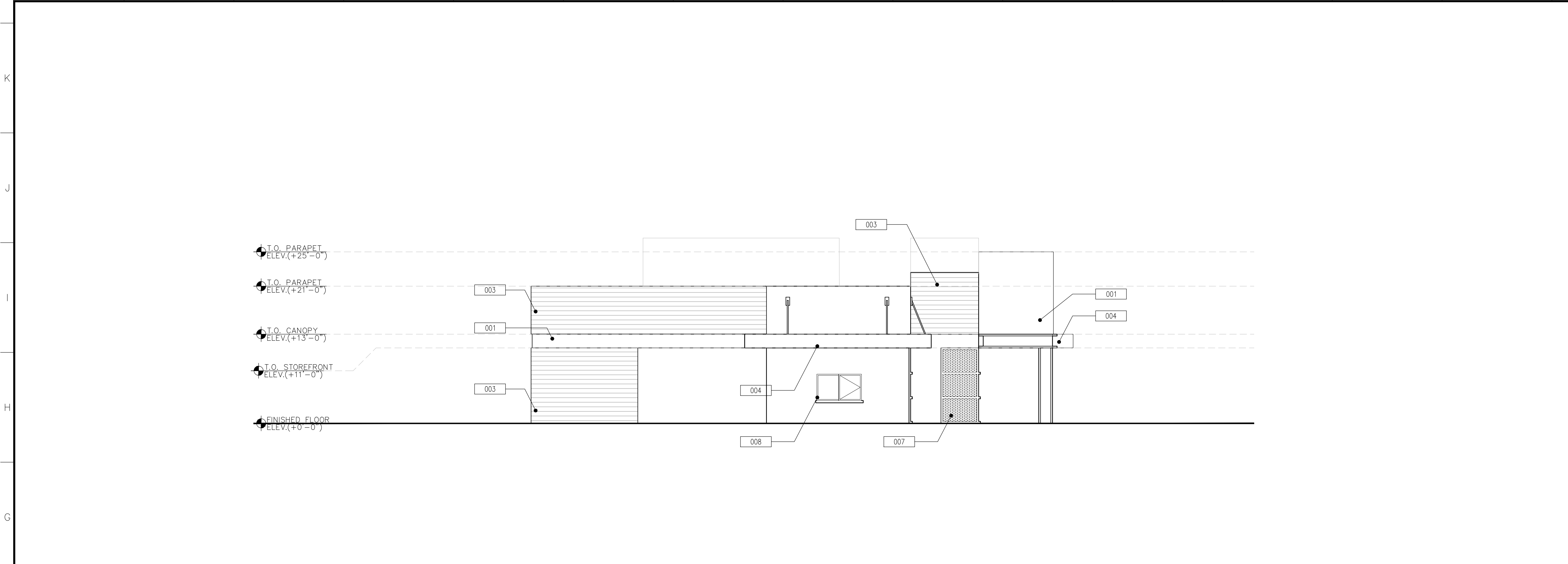
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MARGATE RETAIL
BUILDING EXPANSION
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

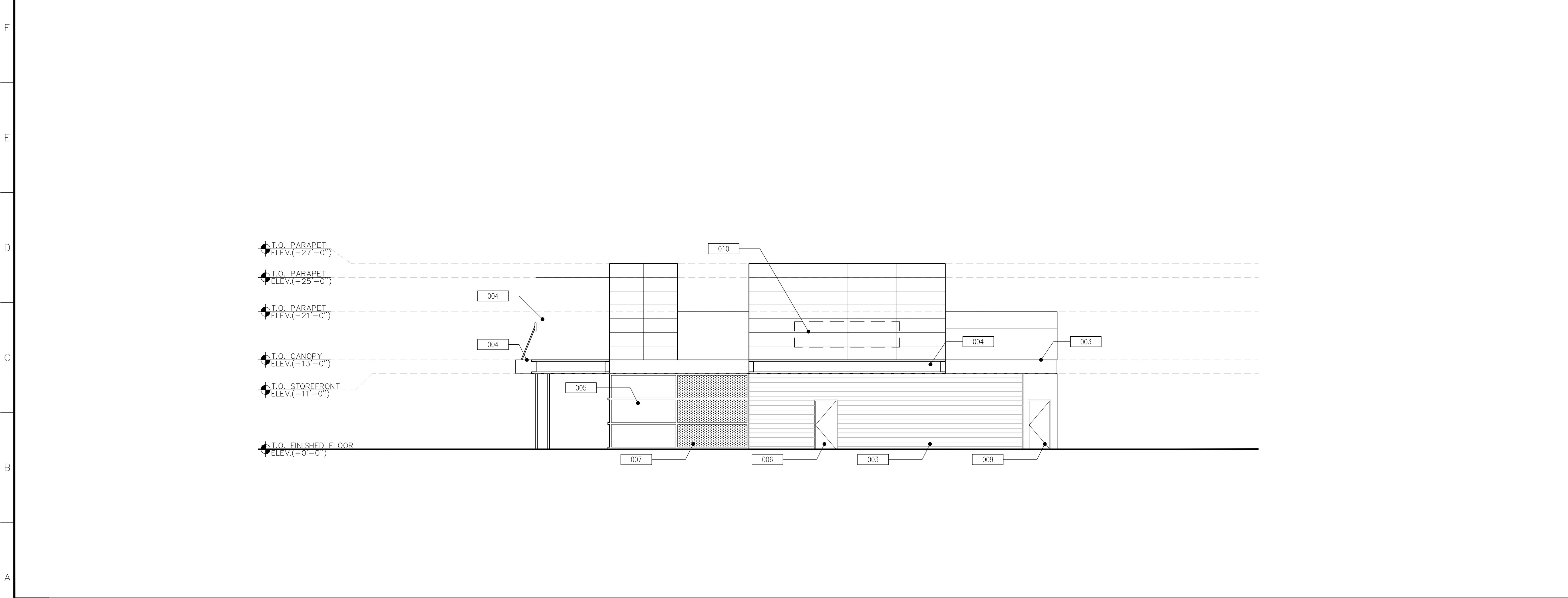
JOAN C. CAYCEDO, AIA

REVISIONS

Drawing Title
ENLARGED FLOOR
PLAN
Scale
Project No. 15015.00
Date 04.25.2016
Principal: JCC
Project Director:
Project Manager:
Drafted by: BC
Checked by: BRE
Sheet No.
AS1.30



2 WEST ELEVATION
AS1.50 SCALE: 1/8"=1'-0"

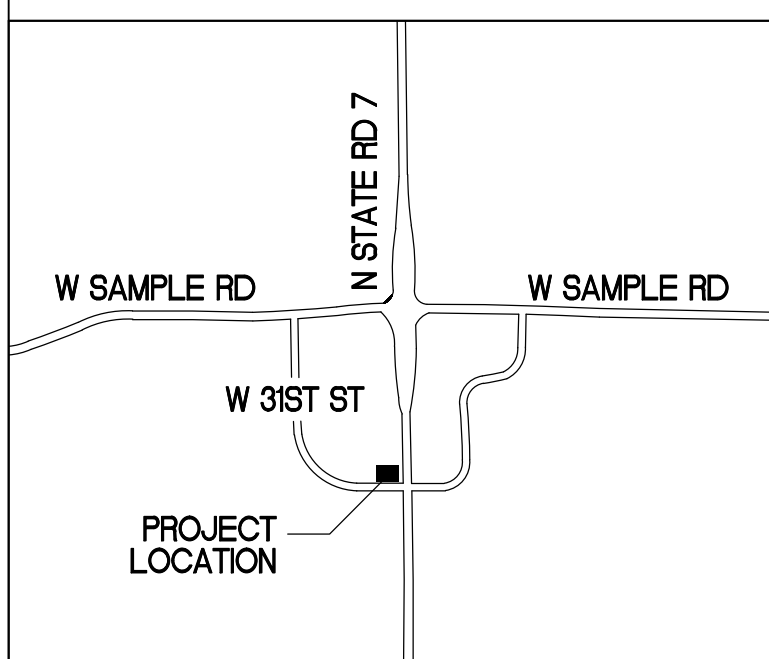


1 EAST ELEVATION
AS1.50 SCALE: 1/8"=1'-0"

LEGEND:

- 001 5/8" STUCCO FINISH (SMOOTH) WITH LIGHT FINISHED PAINT
- 002 CORRUGATED METAL
- 003 3/4" STUCCO REVEAL
- 004 AWNING
- 005 STOREFRONT GLASS WINDOW WITH OPTIONAL IMPACT RESISTANT GLASS IN ALUMINUM FRAME
- 006 STOREFRONT GLASS DOOR WITH OPTIONAL IMPACT RESISTANT GLASS IN ALUMINUM FRAME
- 007 DECORATIVE METAL SCREEN
- 008 SLIDING GLASS DRIVETHRU WINDOW WITH OPTIONAL IMPACT RESISTANT GLASS IN ALUMINUM FRAME
- 009 SERVICE DOOR
- 010 SIGNAGE LOCATION (UNDER SEPERATE PERMIT APPROVAL)

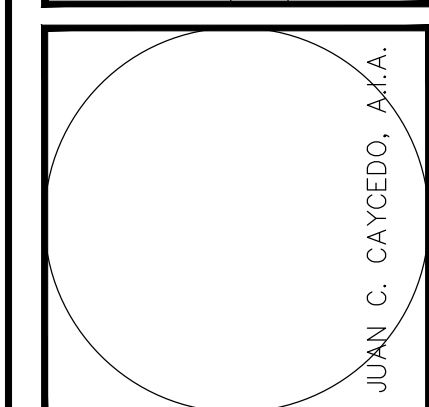
LOCATION MAP



D.R.C.
SUBMITTAL
04.25.2016

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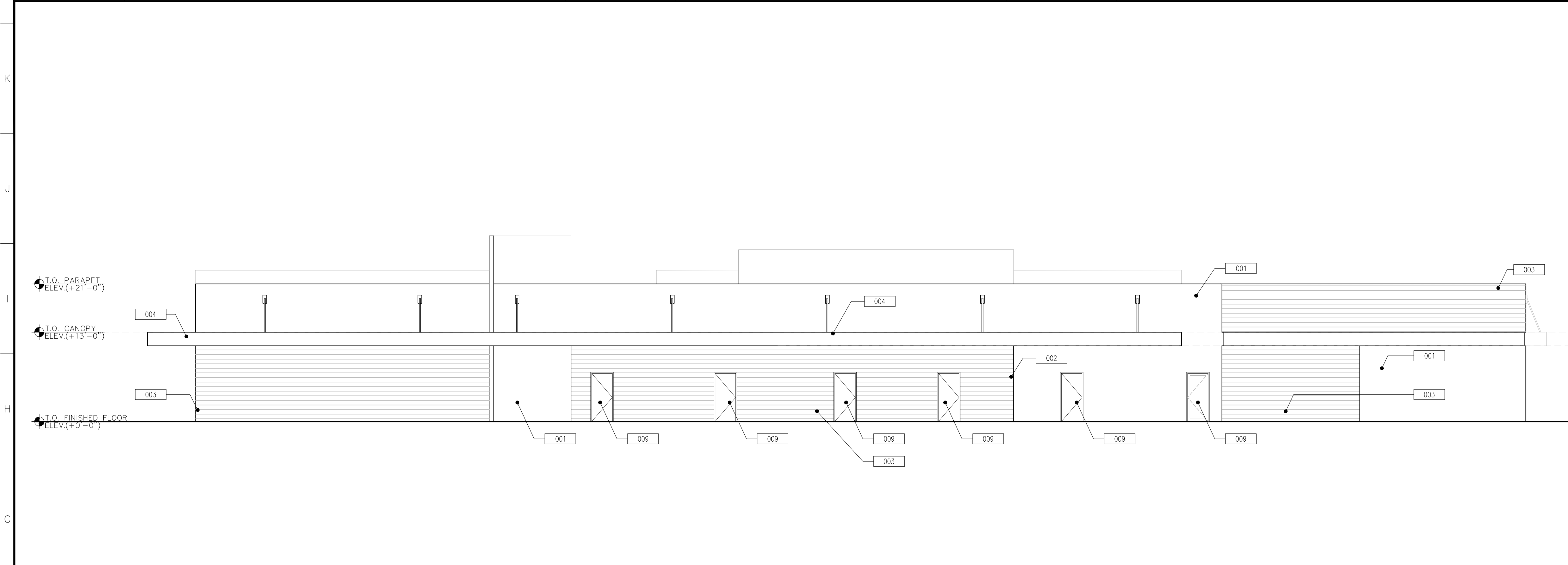
**MARGATE RETAIL
BUILDING EXPANSION**

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

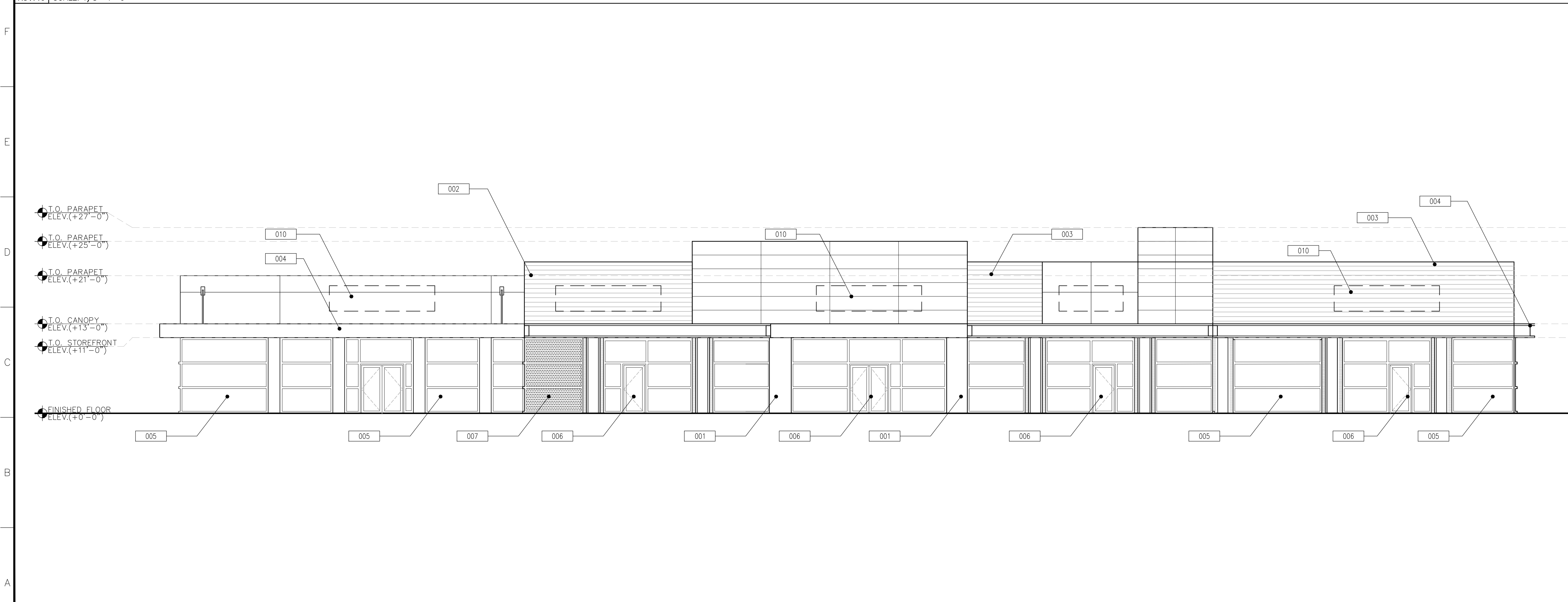
REVISIONS

Drawing Title EXTERIOR ELEVATIONS
Scale Project No. 15015.00 Date 04.25.2016
Principal: JCC Project Director: Project Manager: Drafted by: BC Checked by: BRE

Sheet No.
AS1.50



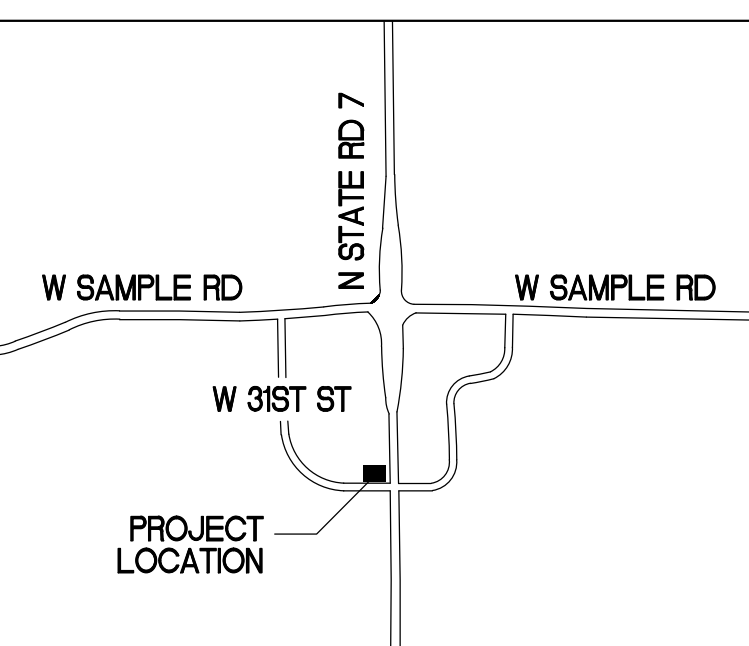
2 NORTH ELEVATION
AS1.40 SCALE: 1/8"=1'-0"



1 SOUTH ELEVATION
AS1.40 SCALE: 1/8"=1'-0"

- LEGEND:**
- 001 5/8" STUCCO FINISH (SMOOTH) WITH LIGHT FINISHED PAINT
 - 002 CORRUGATED METAL
 - 003 3/4" STUCCO REVEAL
 - 004 AWNING
 - 005 STOREFRONT GLASS WINDOW WITH OPTIONAL IMPACT RESISTANT GLASS IN ALUMINUM FRAME
 - 006 STOREFRONT GLASS DOOR WITH OPTIONAL IMPACT RESISTANT GLASS IN ALUMINUM FRAME
 - 007 DECORATIVE METAL SCREEN
 - 008 SLIDING GLASS DRIVETHRU WINDOW WITH OPTIONAL IMPACT RESISTANT GLASS IN ALUMINUM FRAME
 - 009 SERVICE DOOR
 - 010 SIGNAGE LOCATION (UNDER SEPERATE PERMIT APPROVAL)

LOCATION MAP



D.R.C.
SUBMITTAL
04.25.2016

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JOAN C. CAYCEDO, AIA

**MARGATE RETAIL
BUILDING EXPANSION**

**MARGATE RETAIL
BUILDING EXPANSION**
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

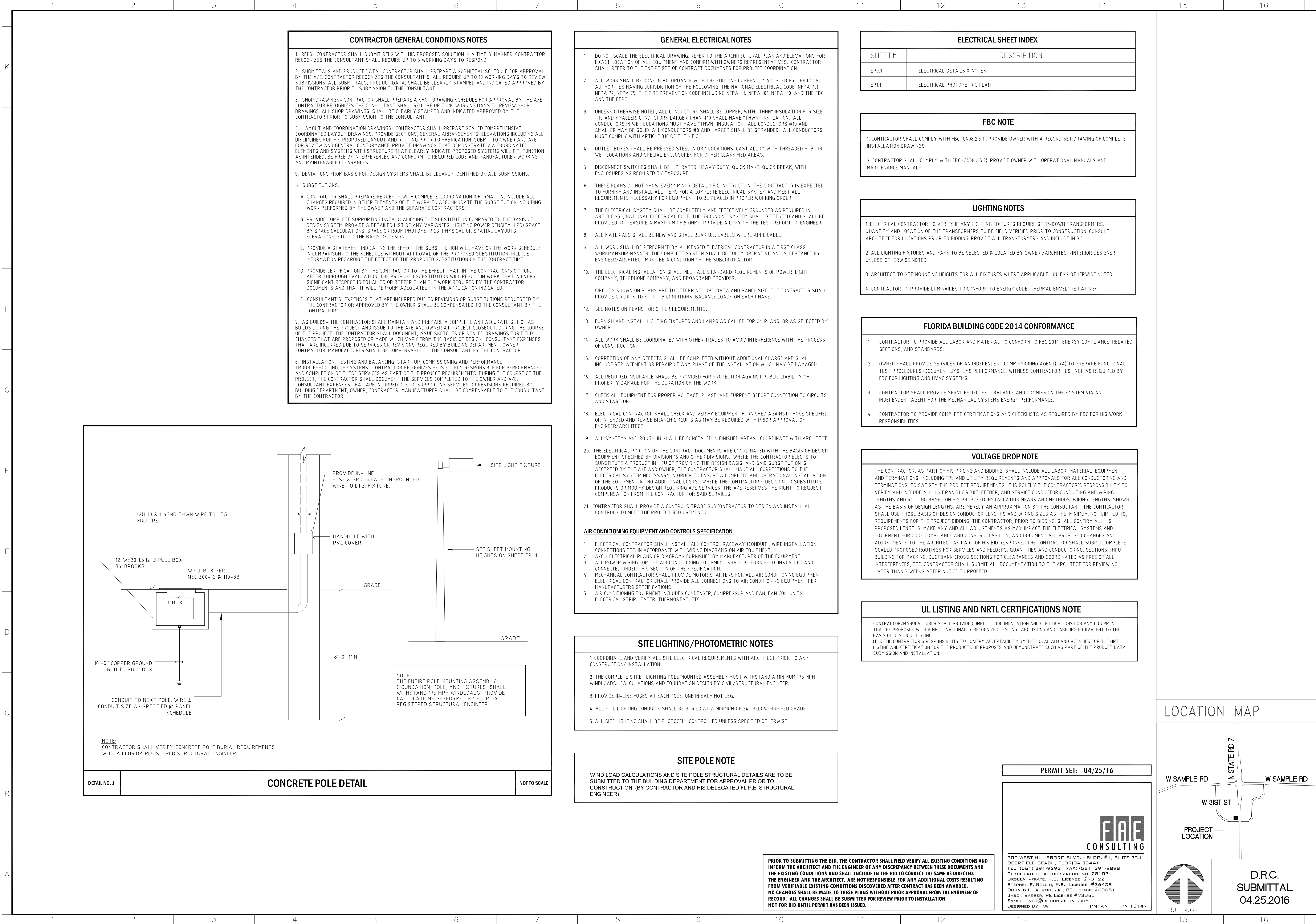
REVISIONS

Drawing Title
**EXTERIOR
ELEVATIONS**

Scale
Project No. 15015.00
Date 04.25.2016

Principal: JCC
Project Director:
Project Manager:
Drafted by: BC
Checked by: BRE

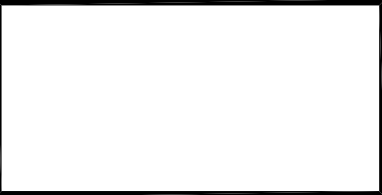
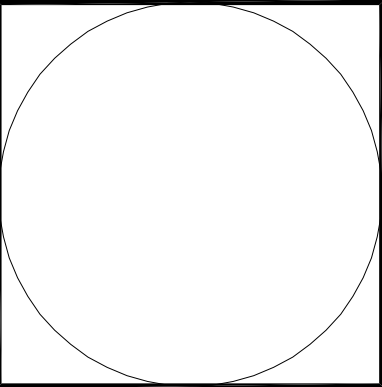
Sheet No.
AS1.40



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MARGATE RETAIL
BUILDING EXPANSION

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

REVISIONS	

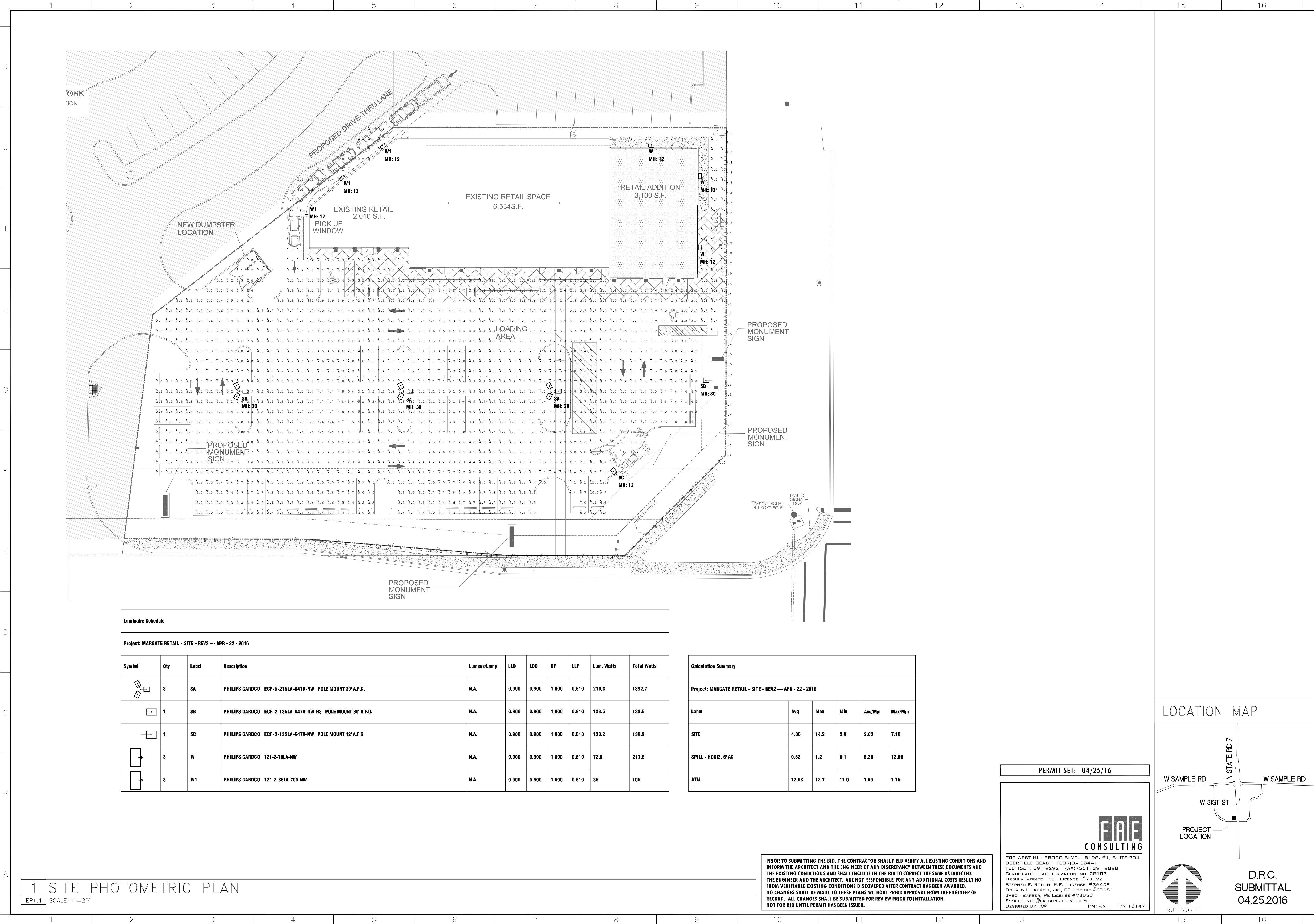
Drawing Title
PHOTOMETRIC
DETAILS + NOTES

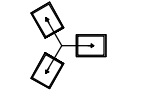
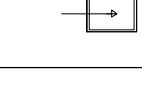
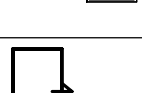
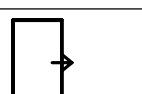
Scale
Project No. 16147
Date 04/25/2016

Principal: UI/SR
Project Director:
Project Manager: AN
Drafted by: KW
Checked by: UI

Sheet No.

EPO.1



Luminaire Schedule										
Project: MARGATE RETAIL - SITE - REV2 --- APR - 22 - 2016										
Symbol	Qty	Label	Description	Lumens/Lamp	LLD	LDD	BF	LLF	Lum. Watts	Total Watts
	3	SA	PHILIPS GARDCO ECF-5-215LA-641A-NW POLE MOUNT 30' A.F.G.	N.A.	0.900	0.900	1.000	0.810	210.3	1892.7
	1	SB	PHILIPS GARDCO ECF-2-135LA-6470-NW-HS POLE MOUNT 30' A.F.G.	N.A.	0.900	0.900	1.000	0.810	138.5	138.5
	1	SC	PHILIPS GARDCO ECF-3-135LA-6470-NW POLE MOUNT 12' A.F.G.	N.A.	0.900	0.900	1.000	0.810	138.2	138.2
	3	W	PHILIPS GARDCO 121-2-75LA-NW	N.A.	0.900	0.900	1.000	0.810	72.5	217.5
	3	W1	PHILIPS GARDCO 121-2-35LA-700-NW	N.A.	0.900	0.900	1.000	0.810	35	105

Calculation Summary					
Project: MARGATE RETAIL - SITE - REV2 --- APR - 22 - 2016					
Label	Avg	Max	Min	Avg/Min	Max/Min
SITE	4.06	14.2	2.0	2.03	7.10
SPILL - HORIZ, 6' AG	0.52	1.2	0.1	5.20	12.00
ATM	12.03	12.7	11.0	1.09	1.15

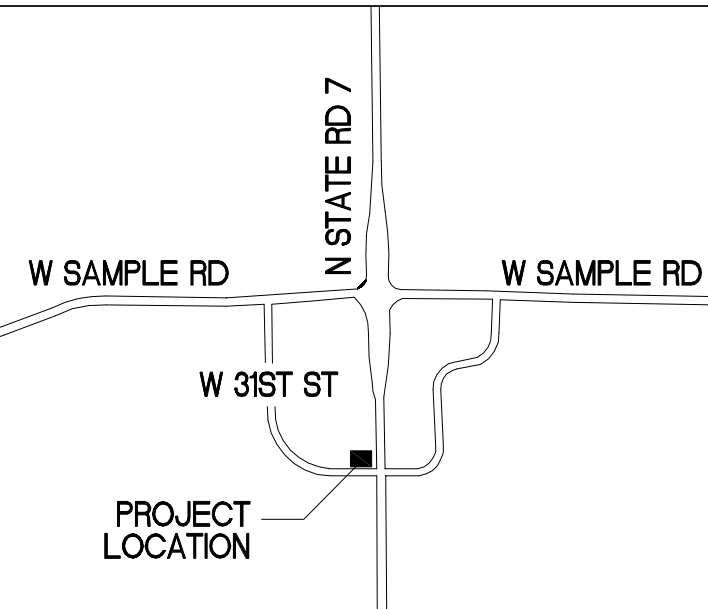
PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

PERMIT SET: 04/25/16

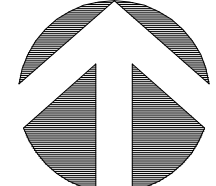


700 WEST HILLSBORO BLVD. - BLDG. #1, SUITE 204
DEERFIELD BEACH, FLORIDA 33441
TEL: (561) 391-9292 FAX: (561) 391-9898
CERTIFICATE OF AUTHORIZATION NO. 28107
URSULA IAFRATE, P.E. LICENSE #73122
STEPHEN F. ROLLIN, P.E. LICENSE #36428
DONALD H. AUSTIN, JR., P.E. LICENSE #60651
JASON BARBER, P.E. LICENSE #73050
E-MAIL: INFO@FIRECONSULTING.COM
DESIGNED BY: KW PM: AN P/N 16147

LOCATION MAP



W SAMPLE RD
N STATE RD 7
W 31ST ST
PROJECT LOCATION



TRUE NORTH

D.R.C.
SUBMITTAL
04.25.2016

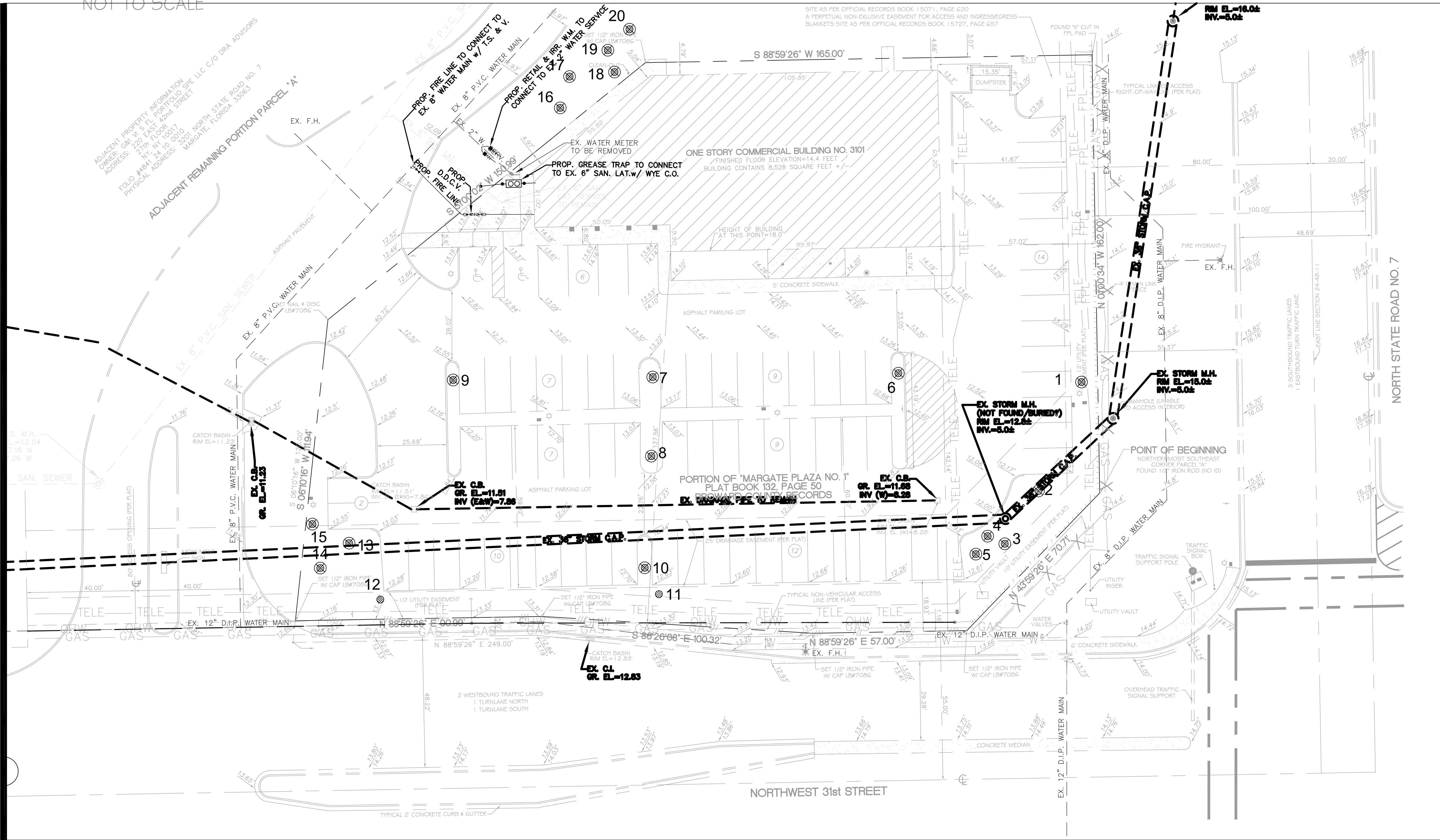
RLC Architects
14 SE An Street, Boca Raton, FL 33432
Tel 561 393 8555 Fax 561 395 0007
Web www.rlcarchitects.com
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MARGATE RETAIL
BUILDING EXPANSION
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA 33063

REVISIONS

Drawing Title
SITE
PHOTOMETRIC
PLAN
Scale
Project No. 16147
Date 04/25/2016
Principal: UI/SR
Project Director:
Project Manager: AN
Drafted by: KW
Checked by: UI
Sheet No.
EP1.1

NOT TO SCALE



TREE DISPOSITION LEGEND

- TREES/PALMS TO REMAIN
- TREES/PALMS TO BE RELOCATED
- TREES/PALMS TO BE REMOVED

AAL
Architectural Alliance Landscape
612 SW 4th Ave., Fort Lauderdale, FL 33315 LCC000237
TEL. 954.764.8858 EMAIL: hjohnson@archall.net

HUGH JOHNSON
RLA #655

Seal

Revision Dates

DRC SUBMITTAL SET

MARGATE RETAIL

3101 NORTH STATE ROAD 7
MARGATE, FLORIDA

Sheet Description

TREE
DISPOSITION
PLAN

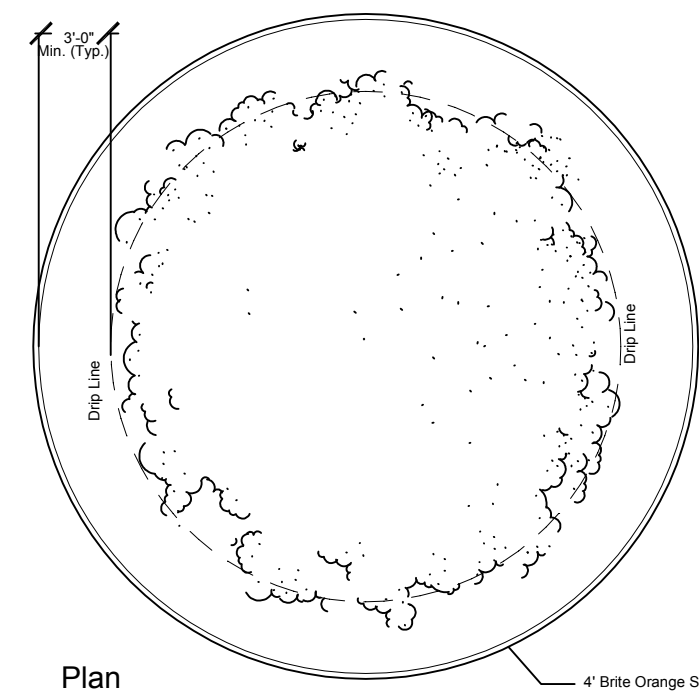
Release Date
4-25-16

Project Number
1624

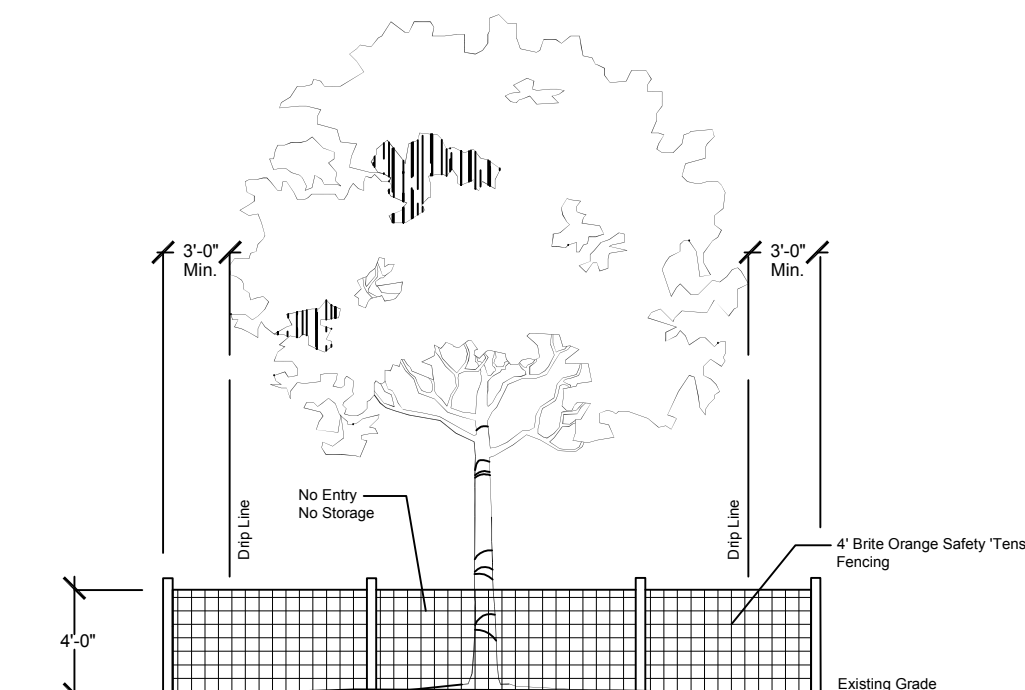
Drawing Number

TD-1

Sheet of



Plan



Elevation

Existing Tree(s) Protection Detail

NOTE:
ALL EXISTING TREES AND PALMS INDICATED TO REMAIN SHALL BE PROTECTED WITH A
TREE BARRICADE. REFER TO DETAIL ON THIS SHEET. THIS BARRICADE MUST BE
INSTALLED PRIOR TO THE BEGINNING OF PROPOSED WORK.

NTS

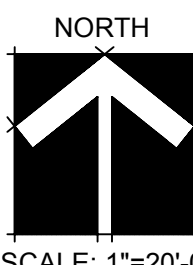
Existing Tree Survey

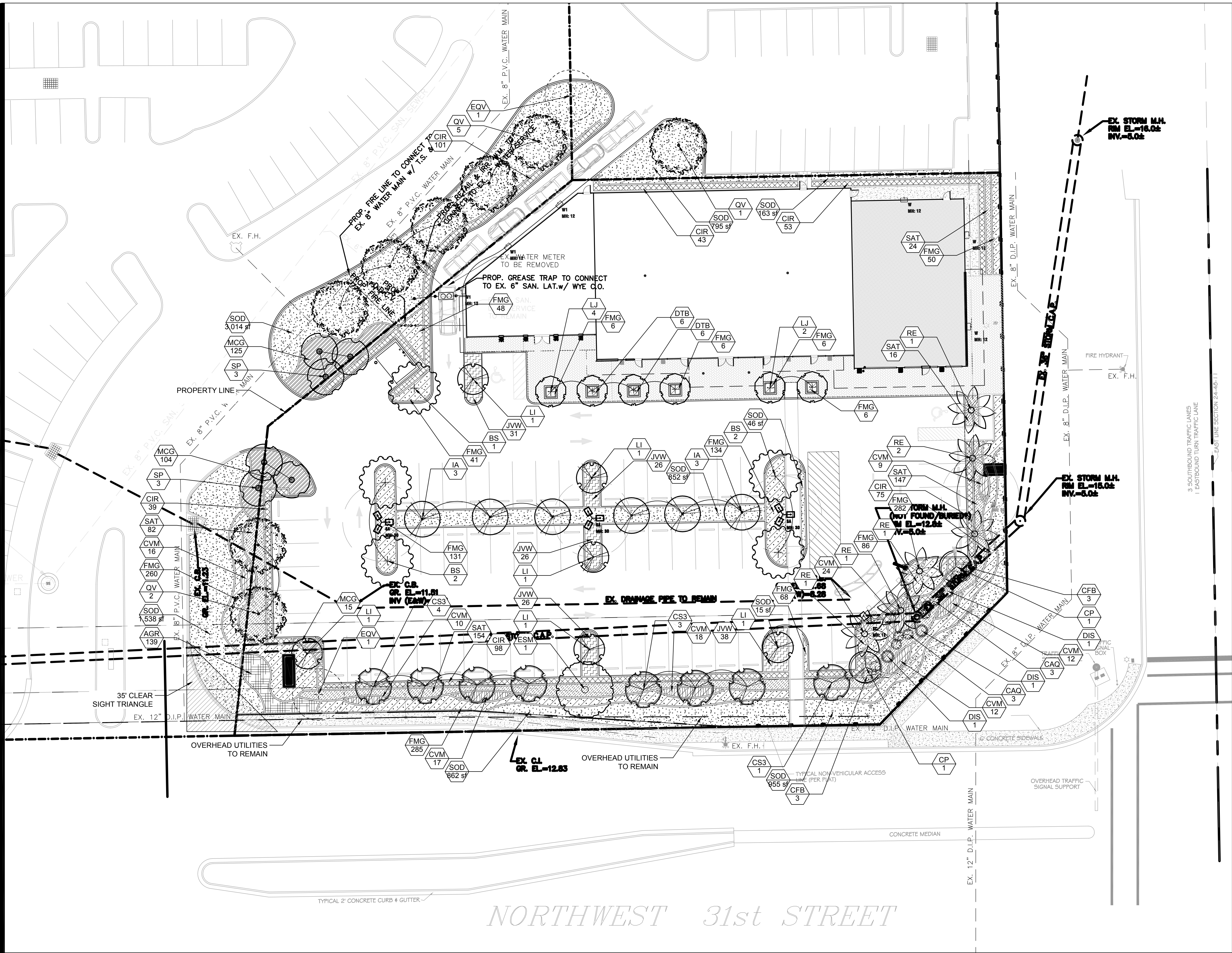
4/15/2016

Leder Retail - Margate (Penn Dutch Shopping Center)

KEY	BOTANICAL NAME	COMMON NAME	CALIPER (INCHES)	HEIGHT (FEET)	CANOPY (FEET)	NATIVE	CONDITION	DISPOSITION
1	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	30%	Remove
2	<i>Syagrus romanzoffiana</i>	Queen Palm	8	18	10	No	40%	Remove
3	<i>Syagrus romanzoffiana</i>	Queen Palm	8	14	10	No	40%	Remove
4	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	30%	Remove
5	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	40%	Remove
6	<i>Tabebuia caraiba</i>	Silver Trumpet Tree	8	16	14	No	30%	Remove
7	<i>Tabebuia caraiba</i>	Silver Trumpet Tree	8	18	14	No	30%	Remove
8	<i>Tabebuia caraiba</i>	Silver Trumpet Tree	8	16	12	No	30%	Remove
9	<i>Tabebuia caraiba</i>	Silver Trumpet Tree	6	16	14	No	30%	Remove
10	<i>Tabebuia caraiba</i>	Silver Trumpet Tree	6	16	12	No	20%	Remove
11	<i>Swietenia mahagoni</i>	Mahogany	12	24	20	Yes	50%	Remain
12	<i>Quercus virginiana</i>	Live Oak	6	20	14	Yes	50%	Remove
13	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	30%	Remove
14	<i>Syagrus romanzoffiana</i>	Queen Palm	8	18	10	No	40%	Remove
15	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	30%	Remove
16	<i>Syagrus romanzoffiana</i>	Queen Palm	8	15	10	No	50%	Remove
17	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	40%	Remove
18	<i>Syagrus romanzoffiana</i>	Queen Palm	8	18	10	No	40%	Remove
19	<i>Syagrus romanzoffiana</i>	Queen Palm	8	16	10	No	50%	Remove
20	<i>Syagrus romanzoffiana</i>	Queen Palm	8	14	10	No	45%	Remove
21	<i>Quercus virginiana</i>	Live Oak	15	24	26	Yes	60%	Remain

NOTE: All height and canopy numbers are in feet. Palm height is overall height.





- NOTES:
1. A SEPARATE PERMIT IS REQUIRED FOR THE TREE REMOVAL. SUB-CONTRACTOR SHALL APPLY AND SUBMIT FOR THIS PERMIT PRIOR TO ANY WORK BEING PERFORMED ON SITE.
 2. A SEPARATE PERMIT IS REQUIRED FOR THE LANDSCAPING. SUB-CONTRACTOR SHALL APPLY AND SUBMIT FOR THIS PERMIT PRIOR TO ANY WORK BEING PERFORMED ON SITE.
 3. ALL SOD AND LANDSCAPE RECEIVE 100% COVERAGE FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN APPROVED WATER SOURCE.
 4. IRRIGATION SYSTEM SHALL ALSO BE EQUIPPED WITH RAIN SENSOR.
 5. SEE SHEET LP-2 FOR LANDSCAPE DETAILS AND NOTES.
 6. SEE SHEET LP-2 FOR PLANTING SCHEDULE AND PLANT SPECIFICATIONS.

PLANT SCHEDULE MARGATE RETAIL

TREES	BOTANICAL NAME	COMMON NAME
BS	BURSERIA SIMARUBA	GUMBO LIMBO
CS3	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD
IA	ILEX CASSINE	DAHOON HOLLY
LJ	LIGUSTRUM JAPONICUM	JAPANESE PRIVET
EQV	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK
QV	QUERCUS VIRGINIANA	LIVE OAK
ESM	SWIETENIA MAHOGANY	MAHOGANY
FLOWERING TREES	BOTANICAL NAME	COMMON NAME
CP	CAESALPINIA PULCHERRIMA	DWARF POINCIANA
LI	LAGERSTROEMIA INDICA 'TUSCARORA'	TUSCARORA CRAPE MYRTLE 'STANDARD'
PALM TREES	BOTANICAL NAME	COMMON NAME
RE	ROYSTONIA ELATA	ROYAL PALM
SP	SABAL PALMETTO	CABBAGE PALMETTO
SHRUBS	BOTANICAL NAME	COMMON NAME
CFB	CORYLINE FRUTICOSA 'BLACK MAGIC'	BLACK MAGIC TI
CAQ	CRINUM AUGUSTUM 'QUEEN EMMA'	'QUEEN EMMA' CRINUM
DIS	DIOON SPINULOSUM	CYCAD
SHRUB AREAS	BOTANICAL NAME	COMMON NAME
CIR	CORDYLINE FRUTICOSA 'REDTIP'	RED TIP COCOPLUM
CVM	CODIAEUM VARIEGATUM 'MAMMEY'	MAMMEY CROTON
FMG	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS
JVV	JASMINUM VOLUBILE	WAX JASMINE
MCG	MUHLBERGIA CAPILLARIS	PINK MUHLY
SAT	SCHEFFLERA ARBORICOLA 'TRINETTE'	SCHEFFLERA
GROUND COVERS	BOTANICAL NAME	COMMON NAME
AGR	ARACHIS GLABRATA	PERENNIAL PEANUT
DTB	DIANELLA TASMANICA	BLUEBERRY FLAX LILY
SOD/SEED	BOTANICAL NAME	COMMON NAME
SOD	STENOTAPHRUM SECUNDATUM 'FLORITAM'	'FLORITAM' ST. AUGUSTINE SOD

Landscape Calculations

Code Requirement	Calculation	Required	Provided
Sec. 23.6 - Landscaping Abutting ROW			
State Road 7	1 tree per 40 lf		
NW 31st Street	76 lf / 40 lf = 1.9	2	3
	250 lf / 18 lf = 13.8	14	14
Sec. 23.7 - Landscaping adjacent to other perimeters			
West Perimeter	1 tree per 75 lf		
North Perimeter	263 lf / 75 lf = 3.5	4	6
	165 lf / 75 lf = 2.2	3	3
Sec. 23.8 Parking Area & Pedestrian zone interior landscaping			
Site parking spaces	20 sf per parking space		
	63 spaces x 20 sf	1,260 sf	2,200 sf +
	1 tree per 200 sf	7	12

DRC SUBMITTAL SET
MARGATE RETAIL
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA

Sheet Description

LANDSCAPE
PLAN

Release Date
4-25-16

Project Number
1624

Drawing Number

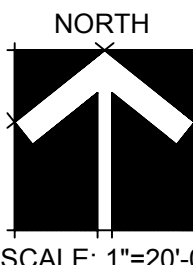
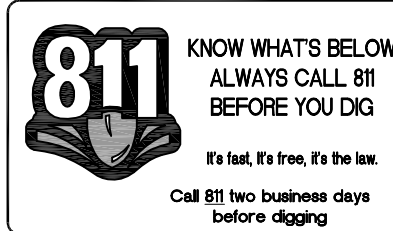
LP-1

Sheet of

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RLA #655

Seal

Revision Dates



PLANT SCHEDULE MARGATE RETAIL

<u>TREES</u> BS	<u>QTY</u> 5	<u>BOTANICAL NAME</u> BURSERA SIMARUBA	<u>COMMON NAME</u> GUMBO LIMBO	<u>CONT</u> FG/B&B	<u>CAL</u> 3"CAL	<u>SIZE</u> 12' HT, 6' SPR, 5' CT	<u>NATIVE</u> YES	<u>DROUGHT</u> HIGH	
CS3	8	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	FG/B&B	2"CAL	10' HT. X 5' SPR., SINGLE TRUNK	YES	HIGH	
IA	6	ILEX CASSINE	DAHOOH HOLLY	FG/B&B	2"CAL	12' HT X 6' SPR	YES	HIGH	
LJ	6	LIGUSTRUM JAPONICUM	JAPANESE PRIVET	FG/B&B	MULTI STEM	12' HT. X 5' SPR.	NO	MEDIUM	
EQV	2	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	EXISTING			YES	HIGH	
QV	8	QUERCUS VIRGINIANA	LIVE OAK	FG/B&B	3"CAL	14' HT X 6' SPR	YES	HIGH	
ESM	1	SWIETENIA MAHOGANY	MAHOGANY	EXISTING			YES	HIGH	
<u>FLOWERING TREES</u> CP	<u>QTY</u> 2	<u>BOTANICAL NAME</u> CAESALPINIA PULCHERRIMA	<u>COMMON NAME</u> DWARF POINCIANA	<u>CONT</u> FG/B&B	<u>CAL</u> 2"CAL	<u>SIZE</u> 10' HT. X 5' SPR.	<u>NATIVE</u> NO	<u>DROUGHT</u> MEDIUM	
LI	6	LAGERSTROEMIA INDICA 'TUSCARORA'	TUSCARORA CRAPE MYRTLE 'STANDARD'	FG/B&B	2"CAL	10' HT. X 5' SPR., STD.	NO	MEDIUM	
<u>PALM TREES</u> RE	<u>QTY</u> 6	<u>BOTANICAL NAME</u> ROYSTONEA ELATA	<u>COMMON NAME</u> ROYAL PALM	<u>CONT</u> FG/B&B	<u>CAL</u>	<u>SIZE</u> 8' GW, MATCHED	<u>NATIVE</u> YES	<u>DROUGHT</u> MEDIUM	
SP	6	SABAL PALMETTO	CABBAGE PALMETTO	FG/B&B		16'-24' OA, BOOTED	YES	HIGH	
<u>SHRUBS</u> CFB	<u>QTY</u> 6	<u>BOTANICAL NAME</u> CORDYLINE FRUTICOSA 'BLACK MAGIC'	<u>COMMON NAME</u> BLACK MAGIC TI	<u>CONT</u> 7 GAL.	<u>CAL</u>	<u>SIZE</u> 4-5' OA, FULL TO BASE	<u>NATIVE</u> NO	<u>DROUGHT</u> MEDIUM	<u>SPACING</u> 48" o.c.
CAQ	6	CRINUM AUGUSTUM 'QUEEN EMMA'	'QUEEN EMMA' CRINUM	7 GAL.		4' OA.	NO	MEDIUM	48" o.c.
DIS	3	DIOON SPINULOSUM	CYCAD	15 GAL		4'-6" OA, FULL	NO	HIGH	60" o.c.
<u>SHRUB AREAS</u> CIR	<u>QTY</u> 409	<u>BOTANICAL NAME</u> CHRYSOBALANUS ICACO 'REDTIP'	<u>COMMON NAME</u> RED TIP COCOPLUM	<u>CONT</u> 3 GAL.,	<u>CAL</u>	<u>SIZE</u> 30"HT X 24"SPR	<u>NATIVE</u> YES	<u>DROUGHT</u> HIGH	<u>SPACING</u> 24" o.c.
CVM	118	CODIAEUM VARIEGATUM 'MAMMEY'	MAMMEY CROTON	3 GAL.,		24"HT X 24"SPR	NO	MEDIUM	24" o.c.
FMG	1,409	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	3 GAL.,		16" HT X 16" SPR	NO	MEDIUM	18" o.c.
JVW	147	JASMINUM VOLUBILE	WAX JASMINE	3 GAL.,		18"HT X 18"SPR	NO	MEDIUM	24" o.c.
MCG	244	MUHLENBERGIA CAPILLARIS	PINK MUHLY	3 GAL.,		24"HT X 24"SPR	YES	HIGH	24" o.c.
SAT	423	SCHEFFLERA ARBORICOLA 'TRINETTE'	SCHEFFLERA	3 GAL.,		24"HT X 24"SPR	NO	MEDIUM	24" o.c.
<u>GROUND COVERS</u> AGR	<u>QTY</u> 139	<u>BOTANICAL NAME</u> ARACHIS GLABRATA	<u>COMMON NAME</u> PERENNIAL PEANUT	<u>CONT</u> 1 GAL.,	<u>CAL</u>	<u>SIZE</u> 4" HT. X 12" SPR.	<u>NATIVE</u> NO	<u>DROUGHT</u> MEDIUM	<u>SPACING</u> 16" o.c.
DTB	12	DIANELLA TASMANICA	BLUEBERRY FLAX LILY	3 GAL.,		16" HT. X 16" SPR.	NO	MEDIUM	18" o.c.
<u>SOD/SEED</u> SOD	<u>QTY</u> 8,240 SF	<u>BOTANICAL NAME</u> STENOTAPHRUM SECUNDATUM 'FLORITAM'	<u>COMMON NAME</u> 'FLORITAM' ST. AUGUSTINE SOD	<u>CONT</u> SOD	<u>CAL</u>	<u>SIZE</u>	<u>NATIVE</u>	<u>DROUGHT</u>	<u>SPACING</u>

NOTES:

GENERAL PLANTING REQUIREMENTS

All sizes shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan(s) will also be required for final acceptance.

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by "Grades and Standards for Florida Nursery Plants" and "Grades and Standards for Florida Nursery Trees". All material shall be installed as per CSI specifications.

All plant material as included herein shall be warrantied by the landscape contractor for a minimum period as follows: All trees and palms for 12 months, all shrubs, vines, groundcovers and miscellaneous planting materials for 90 days, and all lawn areas for 60 days after final acceptance by the owner or owner's representative.

All plant material shall be planted in planting soil that is delivered to the site in a clean loose and friable condition. All soil shall have a well drained characteristic. Soil must be free of all rocks, sticks, and objectionable material including weeds and weed seeds as per CSI specifications.

Twelve inches (12") of planting soil 50/50 sand/topsoil mix is required around and beneath the root ball of all trees and palms, and 1 cubic yard per 50 bedding or groundcover plants.

All landscape areas shall be covered with Eucalyptus or sterilized seed free Melaleuca mulch to a minimum depth of three inches (3") of cover when settled. A four-inch clear space must be left for air between plant bases and the mulch. Cypress bark mulch shall not be used.

All plant material shall be thoroughly watered in at the time of planting; no dry planting permitted. All plant materials shall be planted such that the top of the plant ball is flush with the surrounding grade.

All landscape and lawn areas shall be irrigated by a fully automatic sprinkler system adjusted to provide 100% coverage of all landscape areas. All heads shall be adjusted to 100% overlap as per manufacturers specifications and performance standards utilizing a rust free water source. Each system shall be installed with a rain sensor.

It is the sole responsibility of the landscape contractor to insure that all new plantings receive adequate water during the installation and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided as a part of this contract.

All plant material shall be installed with fertilizer, which shall be State approved as a complete fertilizer containing the required minimum of trace elements in addition to N-P-K, of which 50% of the nitrogen shall be derived from an organic source as per CSI specifications.

Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation.

All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Architectural Alliance.

The plan takes precedence over the plant list.

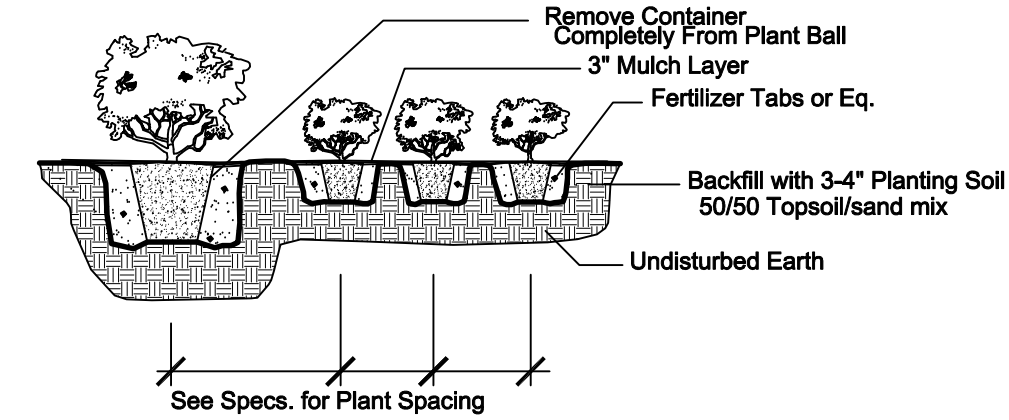
SPECIAL INSTRUCTIONS

General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading and final decorative berm shaping shall be provided by the landscape contractor.

All sod areas as indicated on the planting plan shall receive Stenotaphrum secundatum, St. Augustine 'Palmetto' solid sod. It shall be the responsibility of the landscape contractor to include in the bid, the repair of any sod which may be damaged from the landscape installation operations.

NOTES:

- A SEPARATE PERMIT IS REQUIRED FOR THE TREE REMOVAL. SUB-CONTRACTOR SHALL APPLY AND SUBMIT FOR THIS PERMIT PRIOR TO ANY WORK BEING PERFORMED ON SITE.
- A SEPARATE PERMIT IS REQUIRED FOR THE LANDSCAPING. SUB-CONTRACTOR SHALL APPLY AND SUBMIT FOR THIS PERMIT PRIOR TO ANY WORK BEING PERFORMED ON SITE.



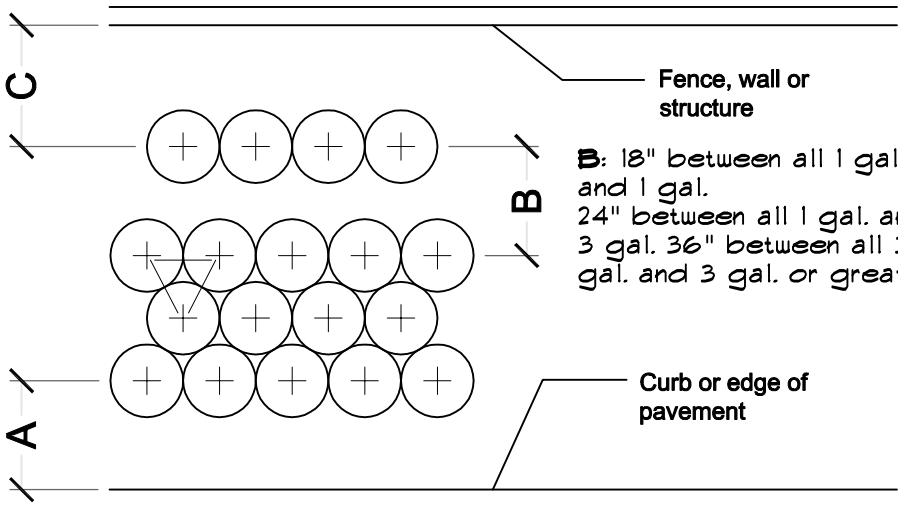
Shrub & Ground Cover Planting Detail

NTS

C: 18" for all 1 gal.
30" for all 3 gal. or greater
vines not included

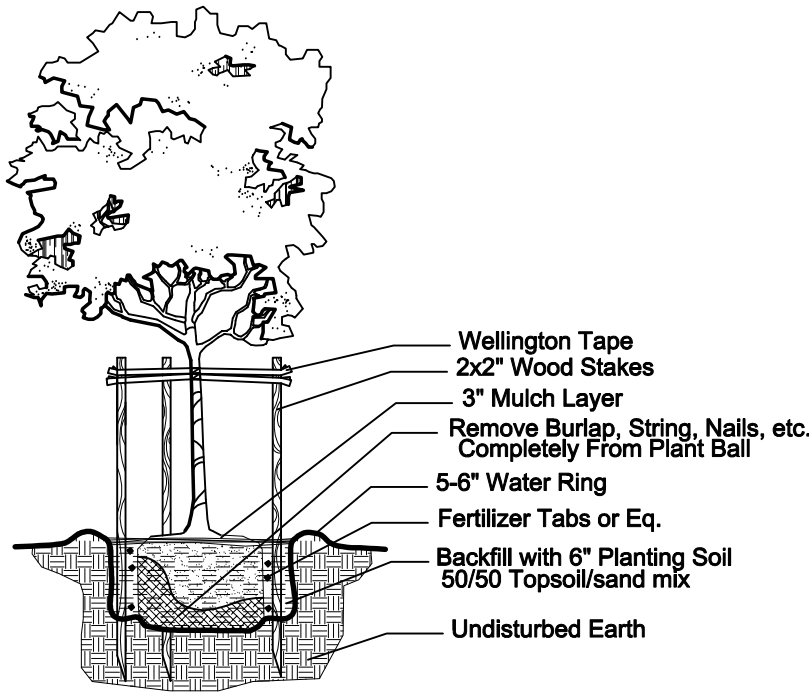
NOTE: All shrub and groundcover masses to use triangular spacing except as a singular hedge row or where noted. Refer to the plant list for individual plant spacing.

A: 14" for all 1 gal.
24" for all 3 gal. or greater



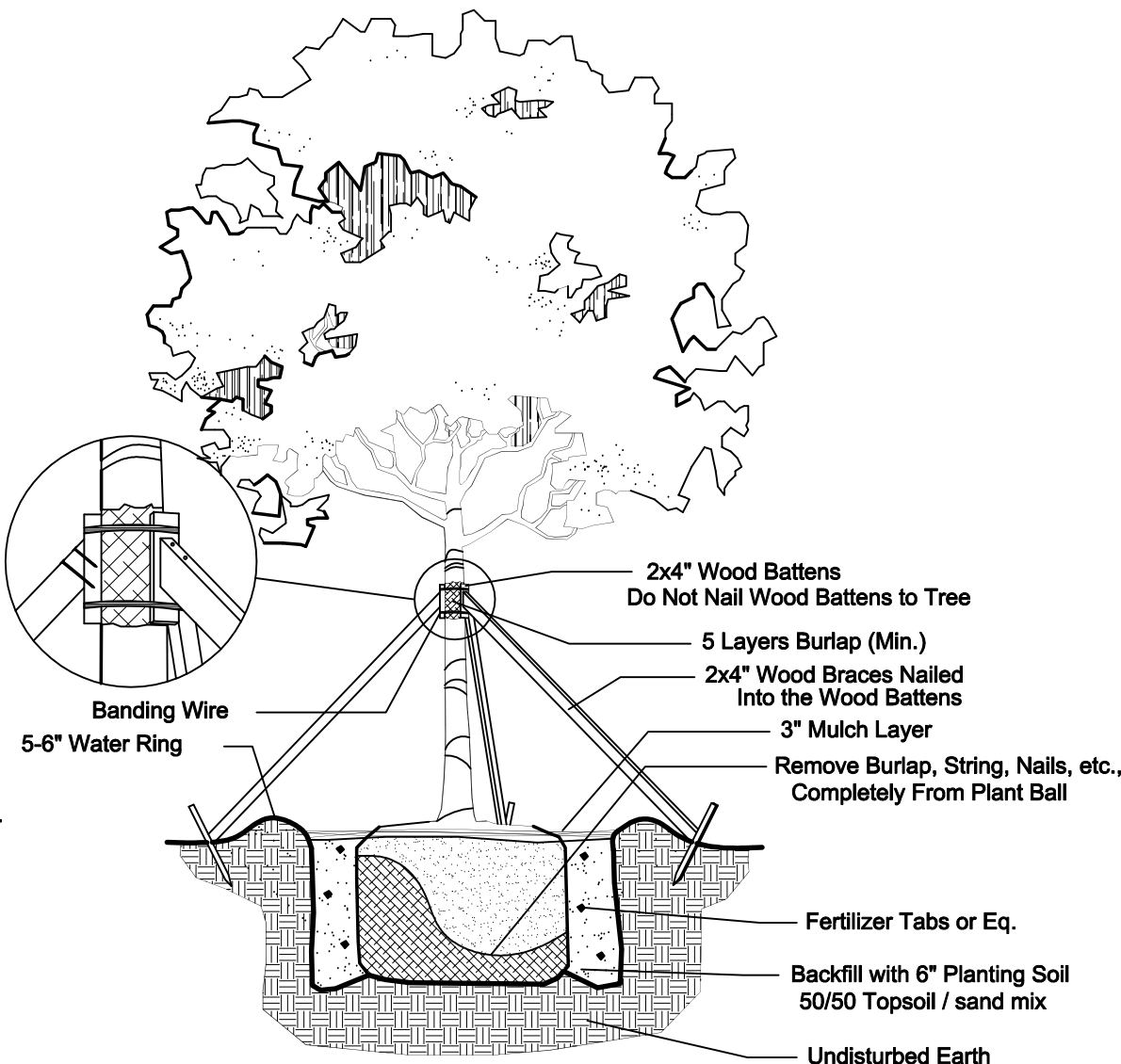
Typical Plant Spacing

NTS



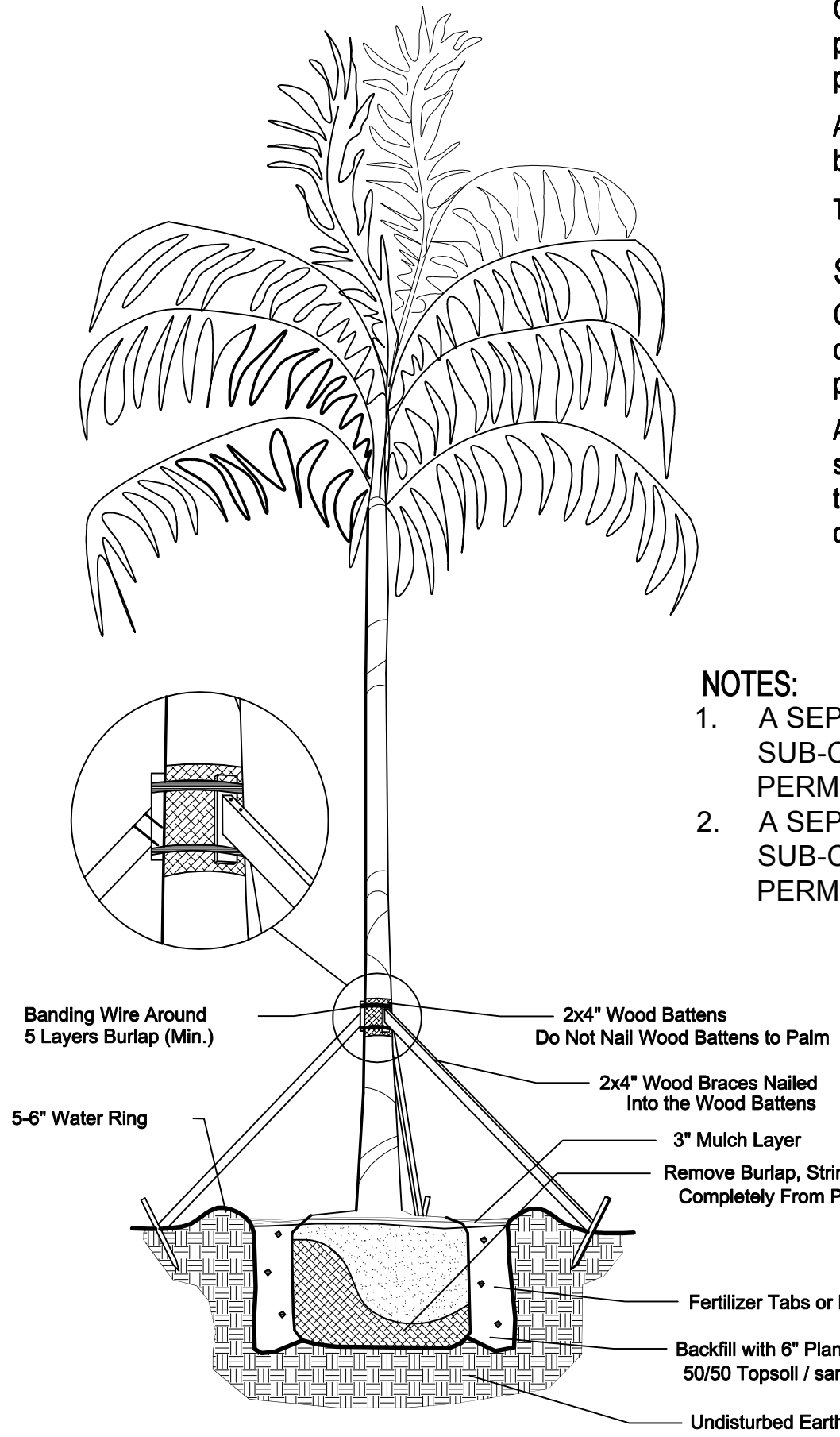
Small Tree Planting Detail

NTS



Large Tree Planting Detail

NTS



Palm Planting Detail

NTS



DRC SUBMITTAL SET
MARGATE RETAIL
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA

Sheet Description
LANDSCAPE
NOTES AND
DETAILS

Release Date
4-25-16

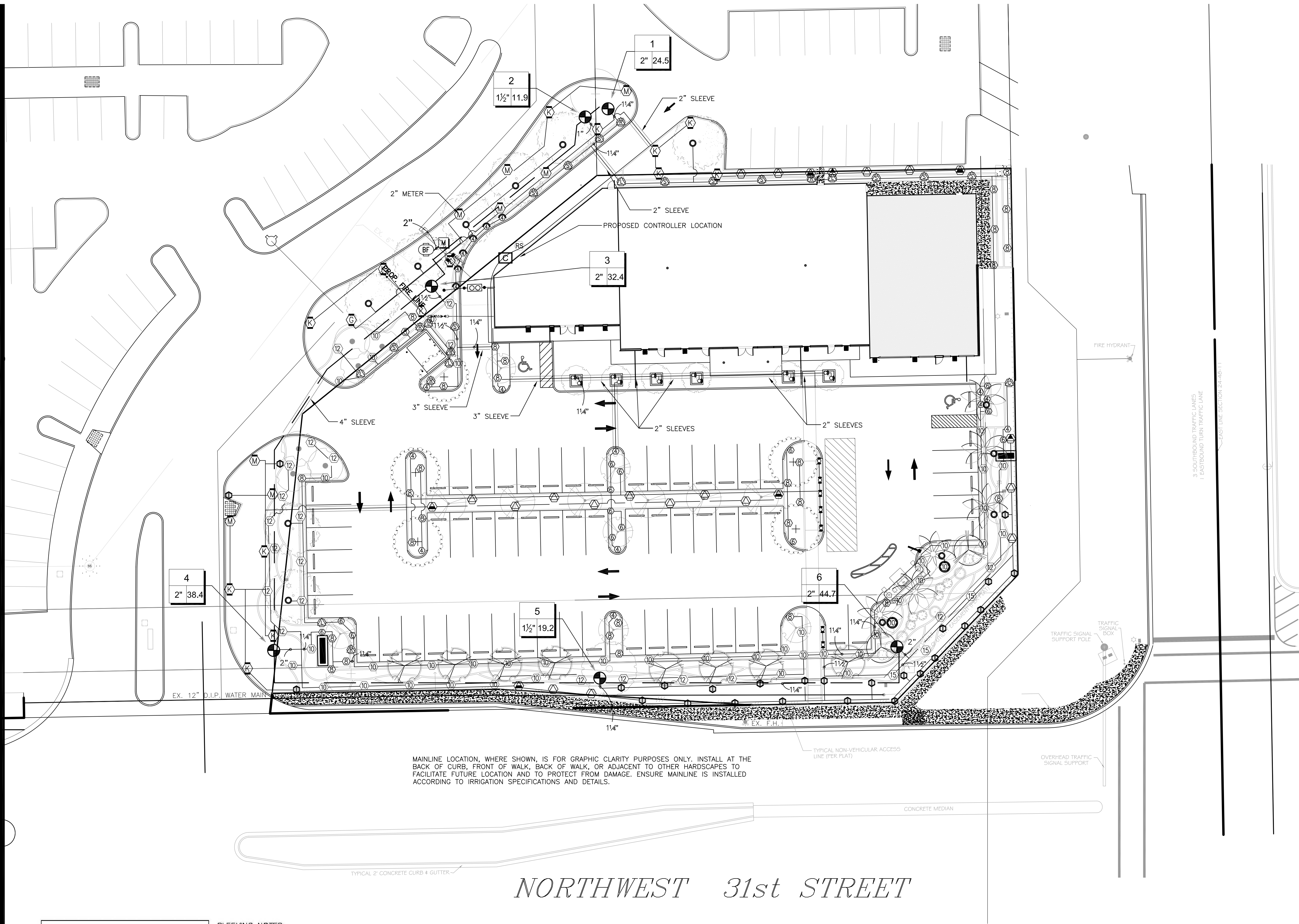
Project Number
1624

Drawing Number
LP-2
Sheet of

HUGH JOHNSON
RLA #655

Seal

Revision Dates

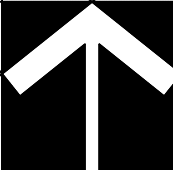


NON-VEHICULAR SLEEVING SCHEDULE	
PIPE SIZE	SLEEVING PIPE SIZE
3/4"	2"
1"	2"
1-1/4"	3"
1-1/2"	3"
2"	4"
3"	6"
4"	8"
6"	12"
8"	16"

- SLEEVING NOTES:
1. VEHICULAR CROSSINGS ARE SHOWN AND SIZED ON THE PLANS.
 2. NON-VEHICULAR SLEEVES ARE SHOWN BUT NOT SIZED.
 3. SIZE ALL NON-VEHICULAR SLEEVES ACCORDING TO THE ADJACENT CHART.
 4. MAINLINE CROSSINGS MUST ALSO INCLUDE A 2" CONDUIT SLEEVE FOR CONTROL WIRE.
 5. CONTRACTOR TO DUCT TAPE END OF SLEEVES TO KEEP SLEEVE CLEAN AND CLEAR.
 6. CONTRACTOR TO STAKE END OF EACH SLEEVE ABOVE GROUND AND PAINT FLUORESCENT ORANGE. LABEL EACH STAKE WITH THE WORD 'SLEEVE' AND ITS SIZE.
 7. CONTRACTOR TO PROVIDE A 3 FT MINIMUM DEPTH OF COVERAGE OVER ALL SLEEVES.
- SLEEVE LABEL:
12"/6"/2" SLEEVES MEANS TO INSTALL ONE 12", ONE 6" AND ONE 2" SLEEVE.



KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast. It's free. It's the law.
Call 811 two business days
before digging.



NORTH

SCALE: 1"=20'-0"

DRC SUBMITTAL SET

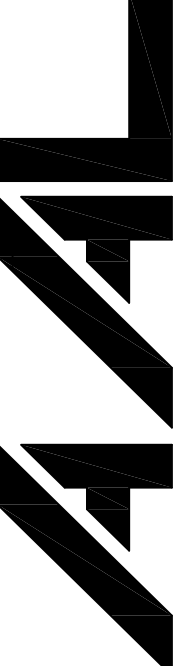
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3101 NORTH STATE ROAD 7
MARGATE, FLORIDA

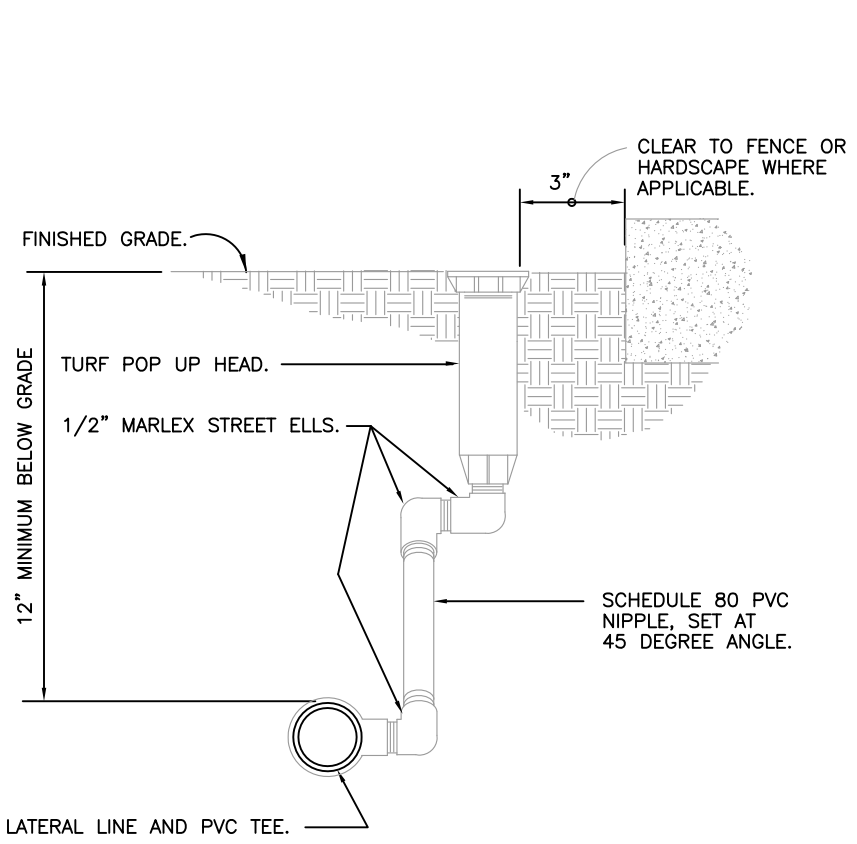
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IRRIGATION PLAN
Release Date
4-25-16
Project Number
1624
Drawing Number
IR-1
Sheet 1 of 3

Revision Dates
Seal

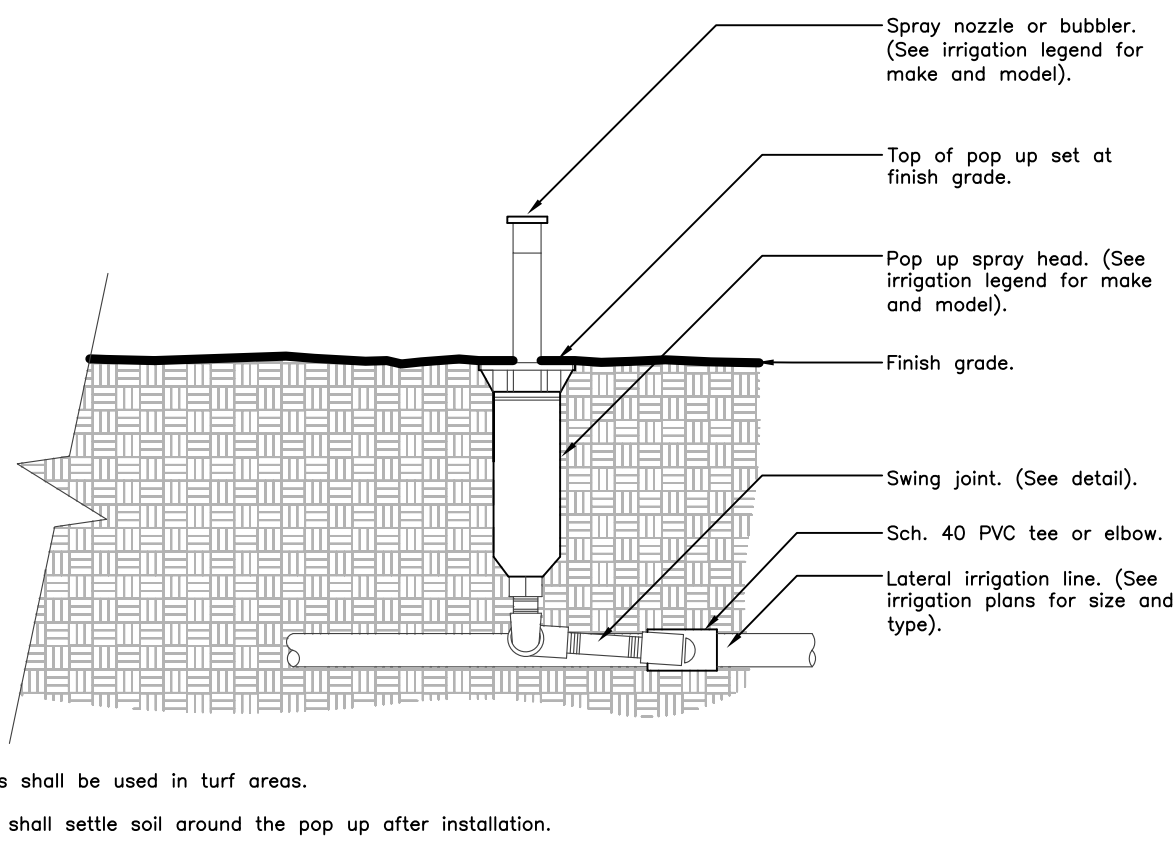
HUGH JOHNSON
RLA #855



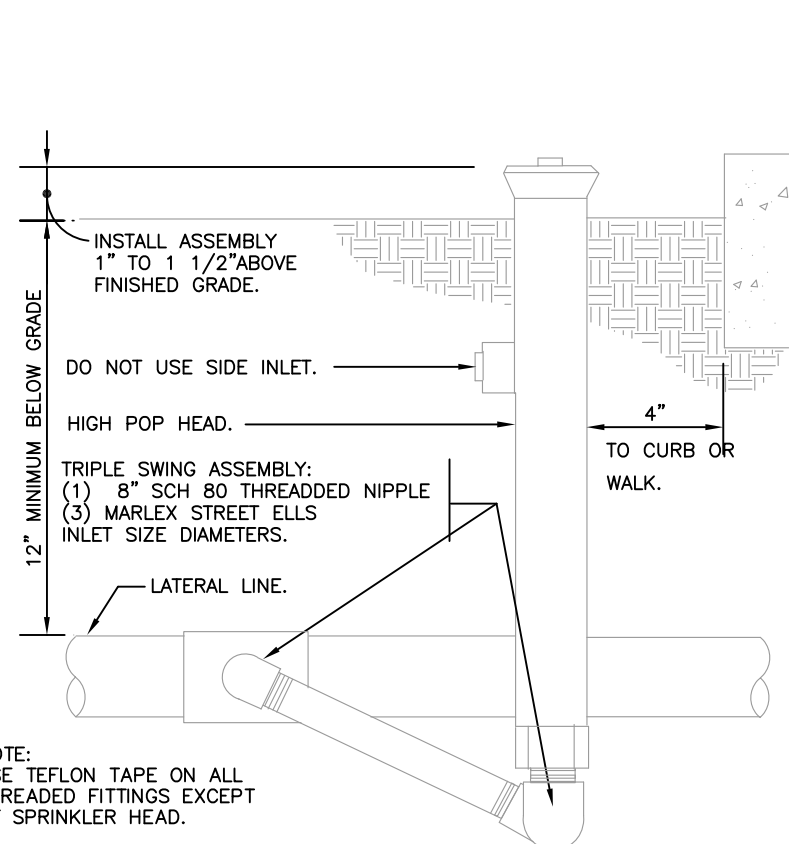
Architectural Alliance Landscape
612 SW 4th Ave., Fort Lauderdale, FL 33315 LCC000237
TEL: 954-764-8858 EMAIL: hjohnson@archall.net



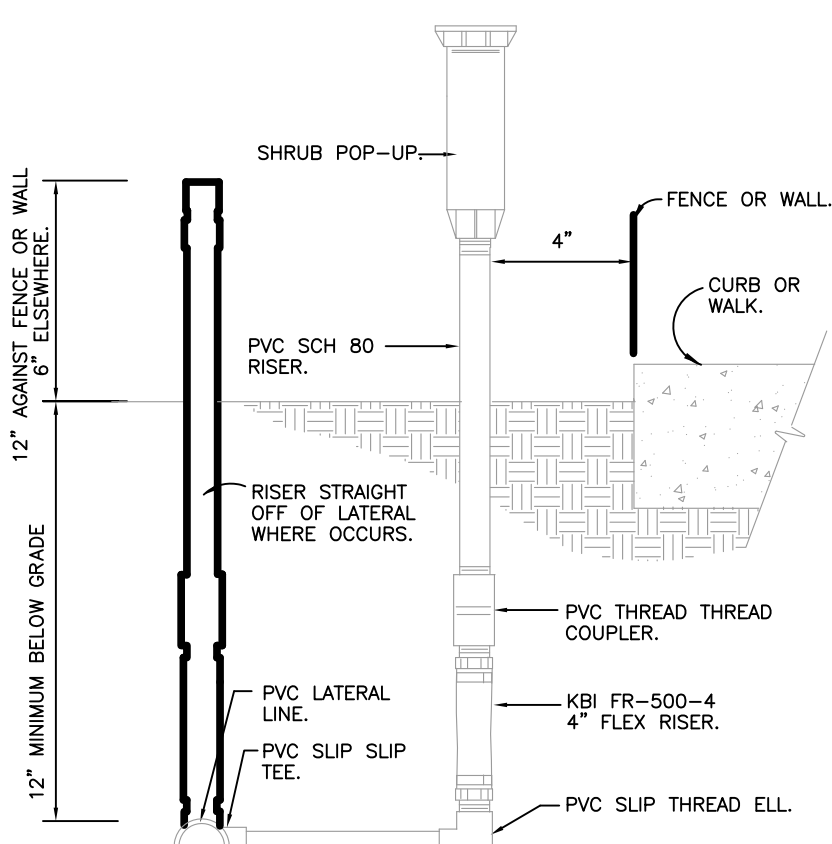
1 TURF SPRAY MARLEX ASSEMBLY
3" = 1'-0"
32 8403.13-01



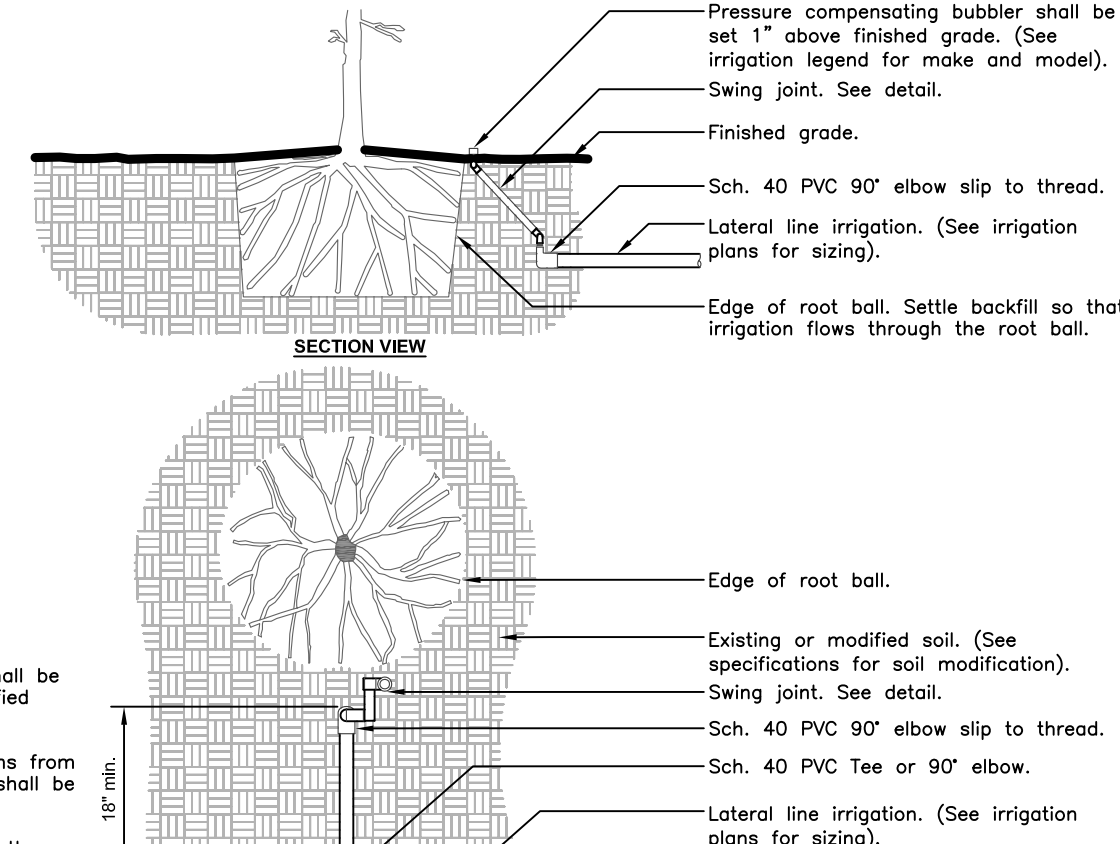
2 POP UP-SPRAY HEAD
1 1/2" = 1'-0"
FX-IR-FX-HEAD-01



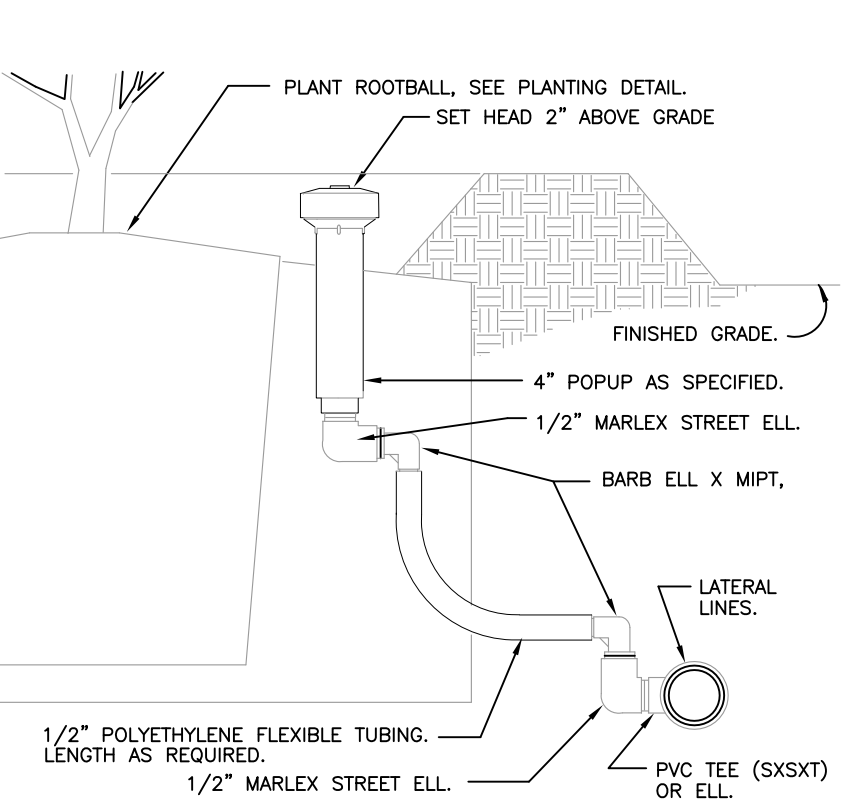
3 SHRUB SPRAY HIGHPOP MARLEX ASSEMBLY
3" = 1'-0"
32 8403.29-10



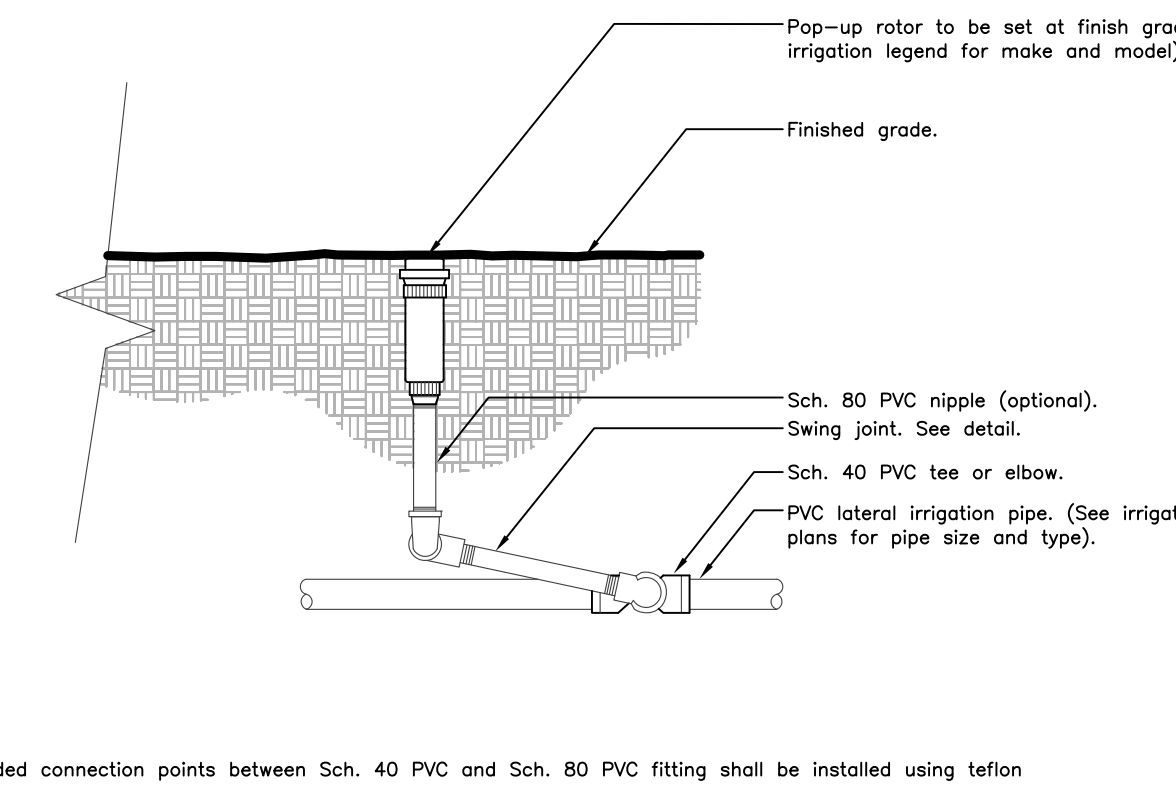
4 SHRUB SPRAY KBI FIXED RISER
3" = 1'-0"
32 8403.23-01



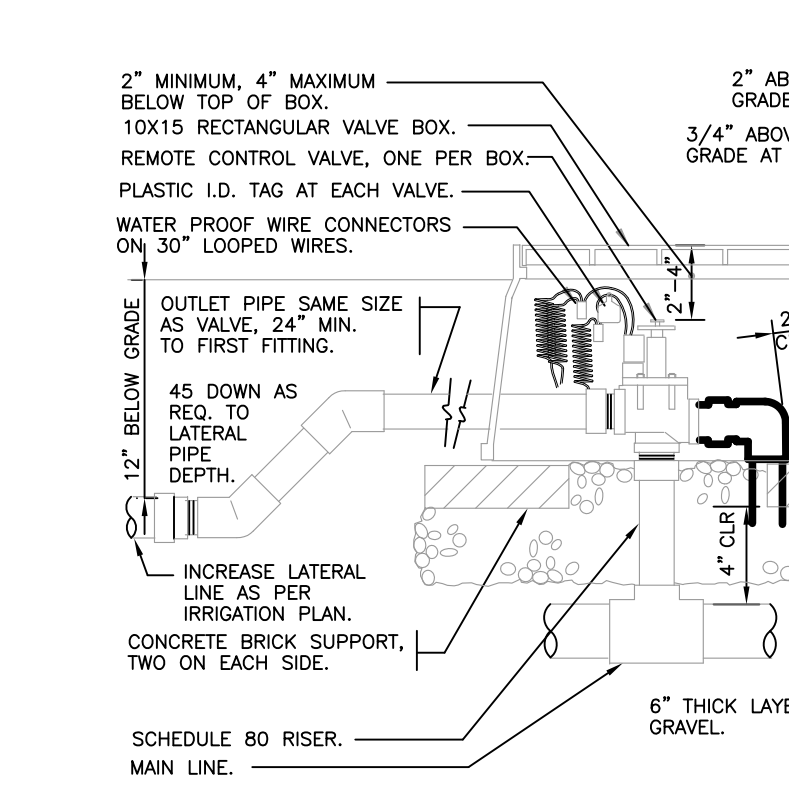
5 IRRIGATION BUBBLER W/ LAYOUT
3/4" = 1'-0"
FX-IR-FX-BUBB-04



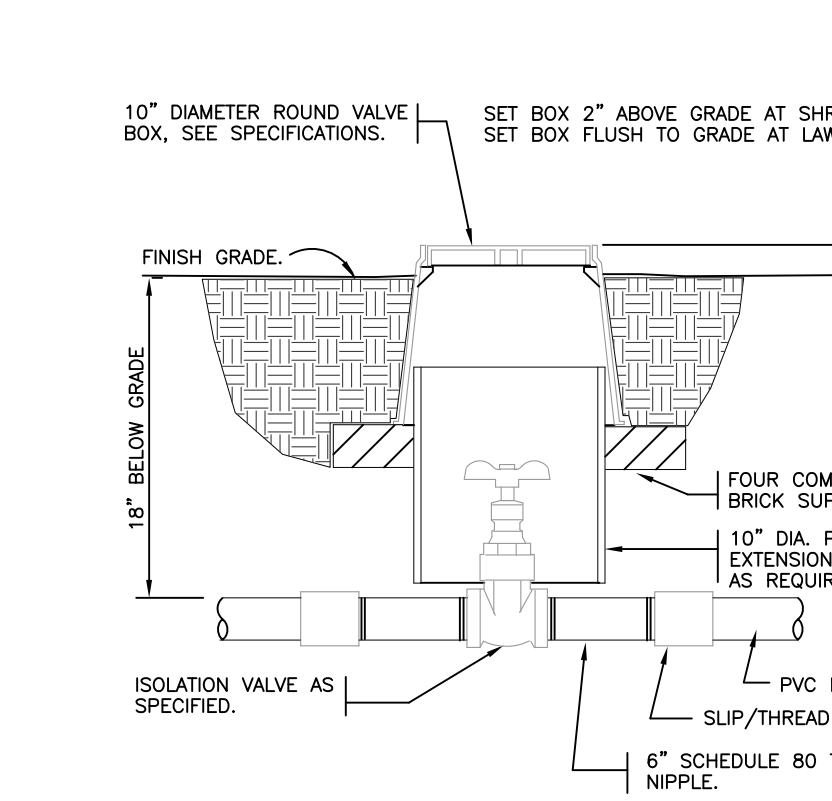
6 POPUP BUBBLER
3" = 1'-0"
32 8403.53-04



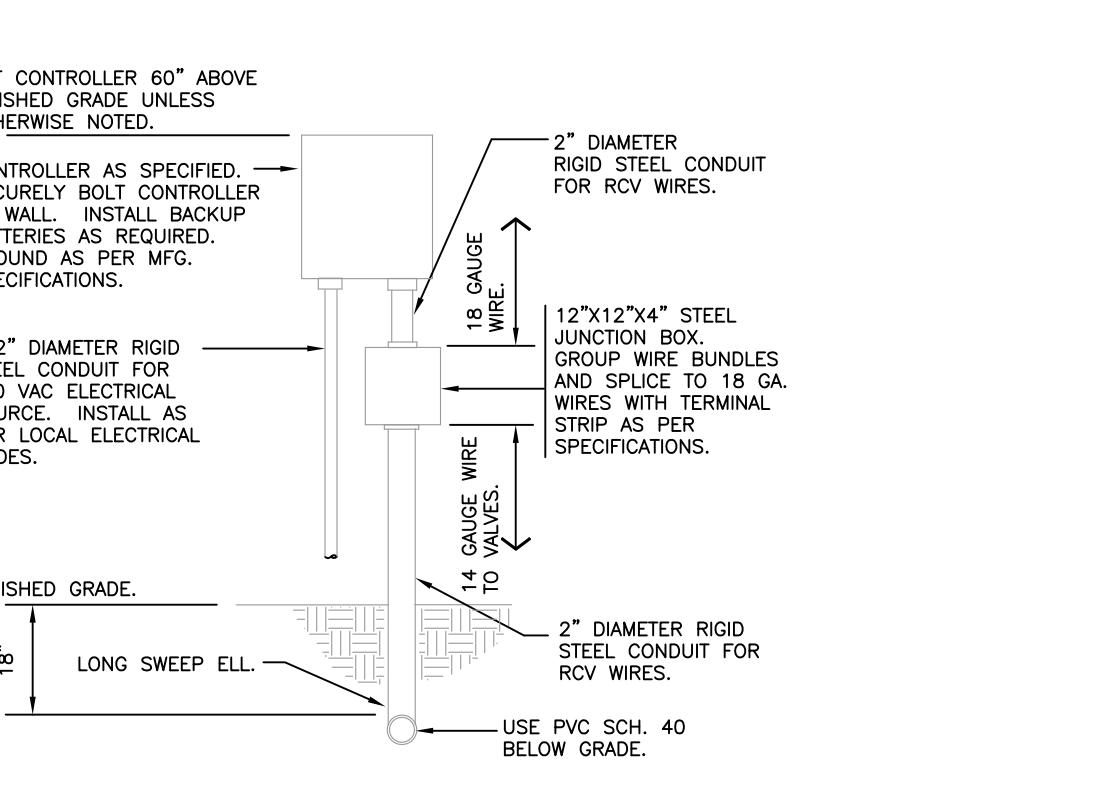
7 ROTOR SPRAYHEAD
1 1/2" = 1'-0"
FX-IR-FX-HEAD-02



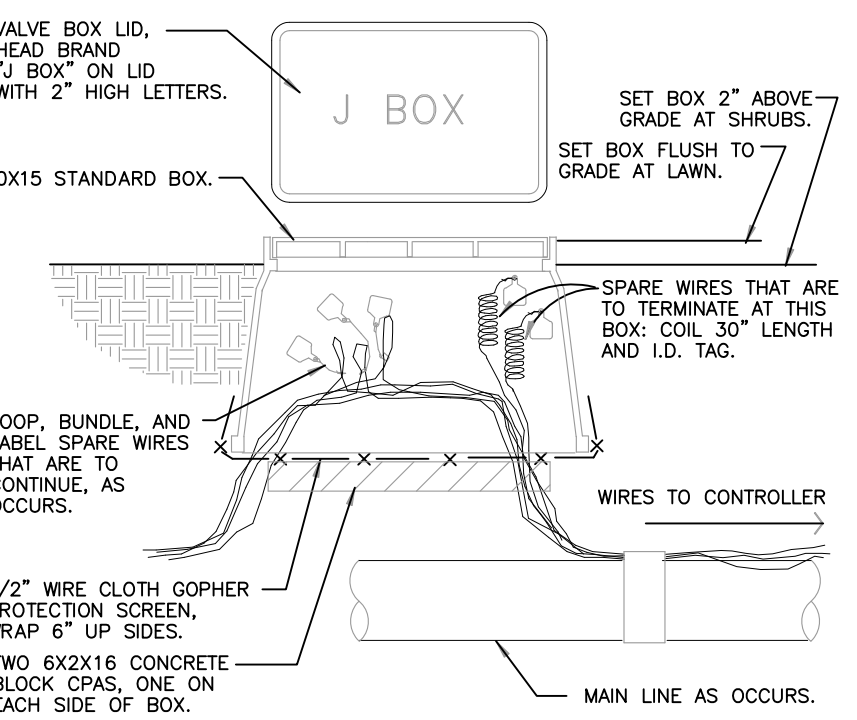
8 ELECTRIC REMOTE CONTROL VALVE
1 1/2" = 1'-0"
32 8406.13-01



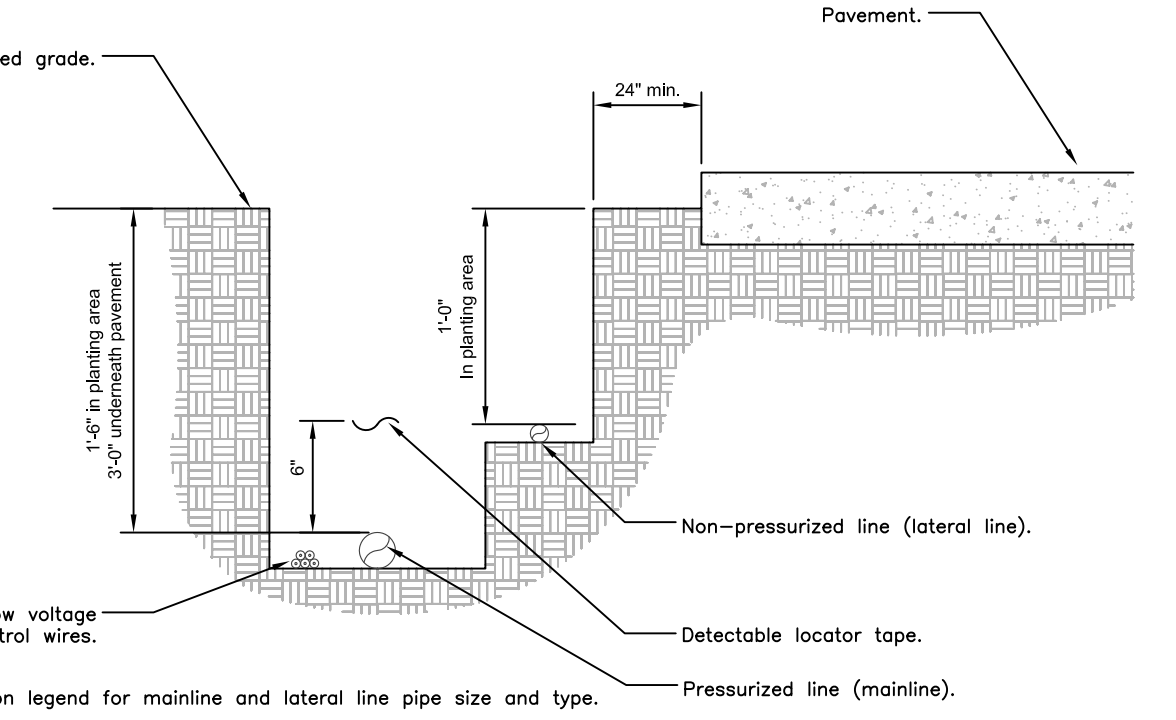
9 BRASS ISOLATION VALVE
1 1/2" = 1'-0"
32 8406.33-01



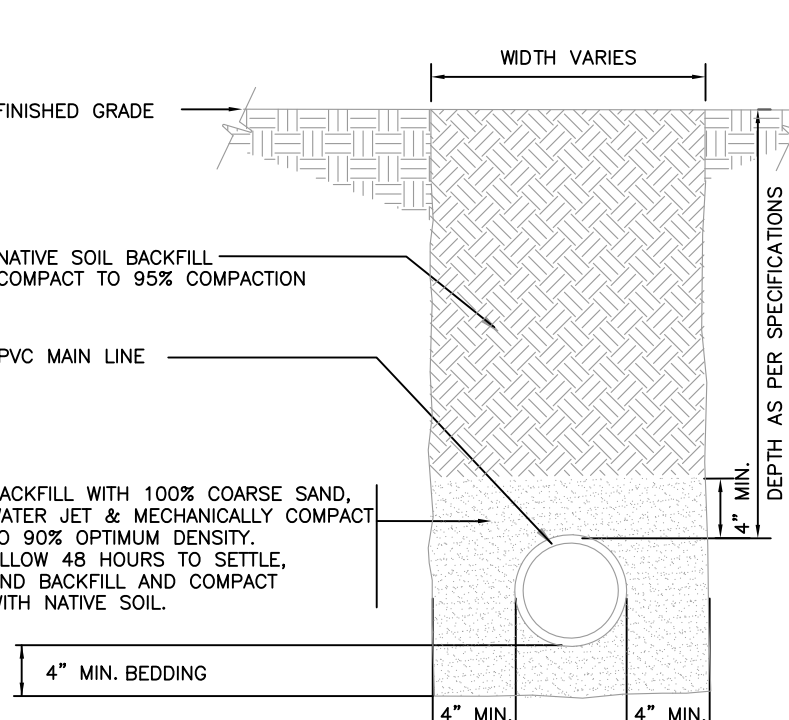
10 WALL MOUNT CONTROLLER
1" = 1'-0"
32 8409.13-02



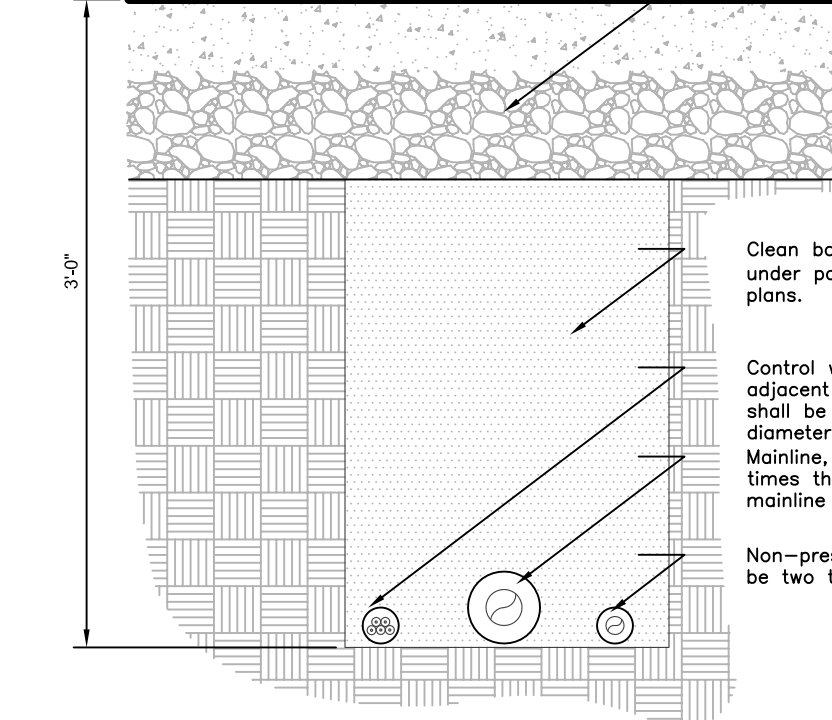
11 WIRE BUNDLE JUNCTION BOX
1 1/2" = 1'-0"
32 8409.79-01



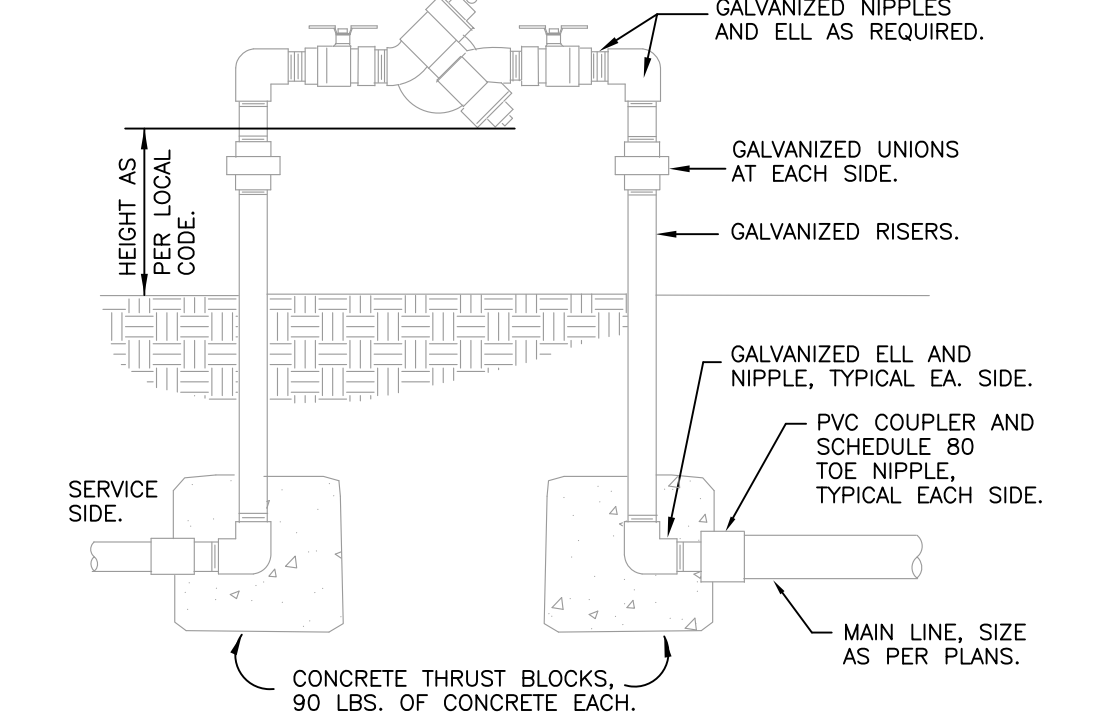
12 IRRIGATION TRENCHING
1 1/2" = 1'-0"
FX-IR-FX-AUXEQ-08



13 MAINLINE WITH SAND BEDDING
1 1/2" = 1'-0"
FX-IR-FX-AUXEQ-13



14 PIPE BENEATH PAVEMENT
1 1/2" = 1'-0"
FX-IR-FX-AUXEQ-05



15 REDUCED PRESSURE BACKFLOW DEVICE
1" = 1'-0"
32 8409.43-01

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with SMDBY/R connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows:

- #14 white for common
- #14 spare black common
- #14 individual color coded hot wire
- #14 spare yellow hot wire

Spare wires

Leaving each controller, run four spare wires in both directions (eight spare wires total). Install as 1 common spare (2 total) and 3 hot wires (6 total). Loop these wires into each RCV along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 8" and be readily accessible by opening the valve box lid. These wires must be all numbered and color coded as required in these plans.

Controller and Pump station Control Panel grounding – Contractor to utilize 4"x8"x5/8" copper grounding plates, 5/8"x10" copper clad grounding rods, "One Strike" CAD wells at all connection points, #8 insulated copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded and tested. Each component must have its own separate grounding grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.

LAYOUT

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

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

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.

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

VALVES

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

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

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

EQUIPMENT

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC triple swing joints unless otherwise detailed.

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

TRENCHING

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

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

INSTALLATION

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

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

BACK FILL

The Back fill 6" below, 6" above, and around all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter. All piping and excavations shall be backfilled and compacted to a density of 95% modified Proctor, or greater.

Main line pipe depth measured to the top of pipe shall be:
24" minimum for 3/4"–2 1/2" PVC with a 30" minimum at vehicular crossings;
30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings.

Lateral line depths measured to top of pipe shall be:
18" minimum for 3/4"–3" PVC with a 30" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.

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

FLUSHING

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

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

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

TESTING

Soil: At a minimum of 2 locations on the site, soil tests for infiltration and texture shall be performed according to the USDA Soil Quality Test Kit Guide. The tests shall be documented in a USDA Soil Worksheet. (All of the above is available at http://soils.usda.gov/sq/assessment/test_kit.html) The completed worksheet shall be submitted to the owners representative for review/approval. Do not proceed without written direction from the owner/owner's representative.

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

Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Hose bibs and gate valves shall not be tested against during a pressure test unless authorized by written permission from the owner. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe.

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

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

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

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

SUBMITTALS

Pre-Construction: Deliver five (5) copies of submittals to Owner's Representative within ten (10) working days from date of Notice to Proceed. Furnish information in 3–ring binder with table of contents and index sheet. Index sections for different components and label with specification section number and name of component. Furnish submittals for components on material list. Indicate which items are being supplied on catalog cut sheets when multiple items are shown on one sheet. Incomplete submittals will be returned without review. In lieu of hardcopies, an electronic package in PDF format can be submitted.

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

- Irrigations As–builts – shall be provided utilizing a sub-foot Global Navigation Satellite System (GNSS) to accurately locate all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections in Florida East State Plane, NAD 83, and CORS 96 format. The data collected shall be in POINT format and include an ID for each data point with Manufacturer, Type, Size, and Depth. All mainline and independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format. These POINTS once collected shall be imported into an AutoCAD DWG geo-referenced base file to be labeled accordingly. The completed AS–Built shall be a Geo-Referenced DWF file and delivered to the owner on a compact disk (CD).

- Controller charts – Upon completion of "as–built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.

- Grounding Certification – Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indicating location tested (using IR plan symbols), date, time, test method, and testing results.

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

- Pre–construction meeting – Designer and contractor to review entire install process and schedule with owner/general contractor.
- Mainline installation inspection(s) – all mainline must be inspected for proper pipe, fittings, depth of coverage, backfill, and installation method
- Mainline pressure test – All mainline shall be pressure tested according to this design's requirements
- Flow Meter calibration – All flow meters must be calibrated, provide certified calibration report for all flow meters.
- USDA Soil Quality Tests for infiltration/texture
- Coverage and operational test
- Final inspection
- Punch list inspection

FINAL ACCEPTANCE

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

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

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

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

- Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks:

- Turn on each zone from the controller to verify automatic operation.
- Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements.
- Check remote control valve to ensure proper operation.
- Check setting on pressure regulator to verify proper setting, if present.
- Check flow control and adjust as needed; ensure valve closure within 10–15 seconds after deactivation by controller.
- Check for leaks – mainline, lateral lines, valves, heads, etc.

- Check all heads as follows:
 - Proper set height (top of sprinkler is 1" below mow height)
 - Verify head pop–up height – 6" in turf, 12" in ground cover, and pop–up on riser in shrub beds.
 - Check wiper seal for leaks – if leaking, clean head and re–inspect.
 - If still leaking, replace head with the appropriate head with pressure regulator and built–in check valve.
 - All nozzles checked for proper pattern, clogging, leaks, correct make & model, etc. – replace as needed
 - Check for proper alignment – perfectly vertical; coverage area is correct; minimize over spray onto hardscapes.
 - Riser height raised/lowered to accommodate plant growth patterns and ensure proper coverage.
 - Verify the pop–up riser retracts after operation. If not, repair/replace as needed.

- Check controller/C.C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports.

- Check rain shut–off device monthly to ensure it functions properly.
- Inspect all filters monthly and clean/repair/replace as needed.
- Inspect backflow devices by utilizing a properly licensed backflow inspector. This should be done annually, at minimum.
- Inspect all valve boxes to ensure they are in good condition, lids are in place and locked.
- Check pump stations for proper operation, pressures, filtration, settings, etc. – refer to pump station operations manual.
- Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed.

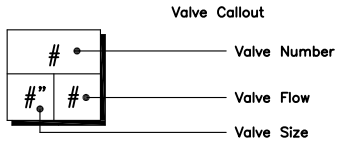
- Winterize, if applicable, as weather in your area dictates. Follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations.

- Conduct additional inspections, maintenance tasks, etc. that are particular for your site.

Soil Moisture Sensor

- Place all soil moisture sensor wiring in 1" SCH 40 PVC conduit
- Soil moisture sensor should be placed in the middle of a spray or drip area as per manufacturer's recommendations.
- Controller shall be set to the Florida Automated Weather Network's urban scheduler settings using the SMS as a moisture cut off device (like a rain switch) per manufacturer directions.

IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	RAIN BIRD 1806-SAM-PRS SO SERIES SHRUB SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET ON FIXED RISER. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	6	30
	RAIN BIRD 1806-SAM-PRS 15 STRIP SERIES SHRUB SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET ON FIXED RISER. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	24	30
	RAIN BIRD 1806-SAM-PRS 10 SERIES MPR SHRUB SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET ON FIXED RISER. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	2	30
	RAIN BIRD 1806-SAM-PRS ADJ SHRUB SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET ON FIXED RISER. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	25	30
	RAIN BIRD 1806-SAM-PRS ADJ SHRUB SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET ON FIXED RISER. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	94	30
	HUNTER MP1000 PROS-06-PRS40-CV TURF ROTATOR, 6" (15.24 CM) POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	8	40
	HUNTER MP2000 PROS-06-PRS40-CV TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	15	40
	HUNTER MP800SR PROS-06-PRS40-CV TURF ROTATOR, 4.0" POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. BODY, ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	25	40
	HUNTER MP STRIP PROS-06-PRS40-CV TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. LST=VERY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	23	40
	RAIN BIRD 1806-SAM-5 SERIES STREAM W/ PCS STREAM BUBBLER 6.0" POPUP WITH CHECK VALVE, PRESSURE COMPENSATING SCREEN ON FIXED RISER.	32	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD PEB 1" 1/2" 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	6	
	FEBCO 765 2" PRESSURE VACUUM BREAKER, BRASS WITH BALL VALVE SOV. INSTALL 12" (305MM) ABOVE HIGHEST DOWNSTREAM OUTLET AND THE HIGHEST POINT IN THE DOWNSTREAM PIPING.	1	
	RAIN BIRD ESP8XME-LXMM 8 STATION CAPABLE COMMERCIAL CONTROLLER. MOUNTED ON A POWDER-COATED METAL CABINET WITHOUT FLOW SENSING.	1	
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1	
	WATER METER 2"	1	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1 1/4" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 1" IN SIZE.	3,846 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40 PVC SCHEDULE 40 IRRIGATION PIPE.	569.4 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	253.3 L.F.	



DRC SUBMITTAL SET
MARGATE RETAIL
3101 NORTH STATE ROAD 7
MARGATE, FLORIDA

Sheet Description

IRRIGATION NOTES

Release Date
4-25-16

Project Number
1624

Drawing Number

IR-3

Sheet 3 of 3

HUGH JOHNSON
RLA #855

Seal

Revision Dates