

PROJECT TEAM:

OWNER :
AutoNation

200 Southwest First Ave.
14th Floor Fort Lauderdale, FL, 33301
Contact:
David Serra
tel: (954) 769-4068
email: serrad@autonation.com

STRUCTURAL ENGINEER :
Rochell Engineering INC.

205 Santillane Ave.
Coral Gables, FL, 33134
Contact:
Alexander Rochell
tel: (305) 649-4049
email: alex@structuralpartners.com

MEP ENGINEER :
P&G Engineering Design Group Corp.

21 SW 102TH CT
Miami, FL, 33174
Contact:
Luis O. Perez
tel: (786) 747-5018
email: lperez@pgengineeringdesign.com

ARCHITECT :
SOL-ARCH

6780 SW 80TH Street
Miami, FL, 33143
Contact:
Dulce Conde
tel: (305) 740-0723
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CIVIL ENGINEER :
THE BETA JONES GROUP

801 Brickell Avenue Suite 900
Miami, FL, 33131
Contact:
Luis A. Betallelus
tel: (786) 284-8828
email: luis@betajones.com

BUILDING & STRUCTURAL INFORMATION	
a.	Interior Remodeling & Addition
b.	Pre-Engineered Metal Building Type
c.	Occupancy: Business & Storage
d.	Risk Category: II
e.	Building Height: 46'-6"
f.	Construction Type: III B
g.	Zoning Designation: M-1 Light Industrial



MAY 22TH, 2019

AUTONATION MARGATE COLLISION CENTER
5355 NW 24TH ST, MARGATE, FL 33063
DRC SITE PLAN SUBMITTAL

CODES IN USE:

Florida Building Code (2017)
Florida Fire Prevention Code (2017) - Sixth Edition
NFPA 101 Life Safety Code (2015) with Florida
Amendments -Fifth Edition
NFPA 1 Uniform Fire Code (2015) with Florida
Amendments- Fifth Edition
2017 ADA Standards for Accessible Design

DEFERRED SUBMITTAL:

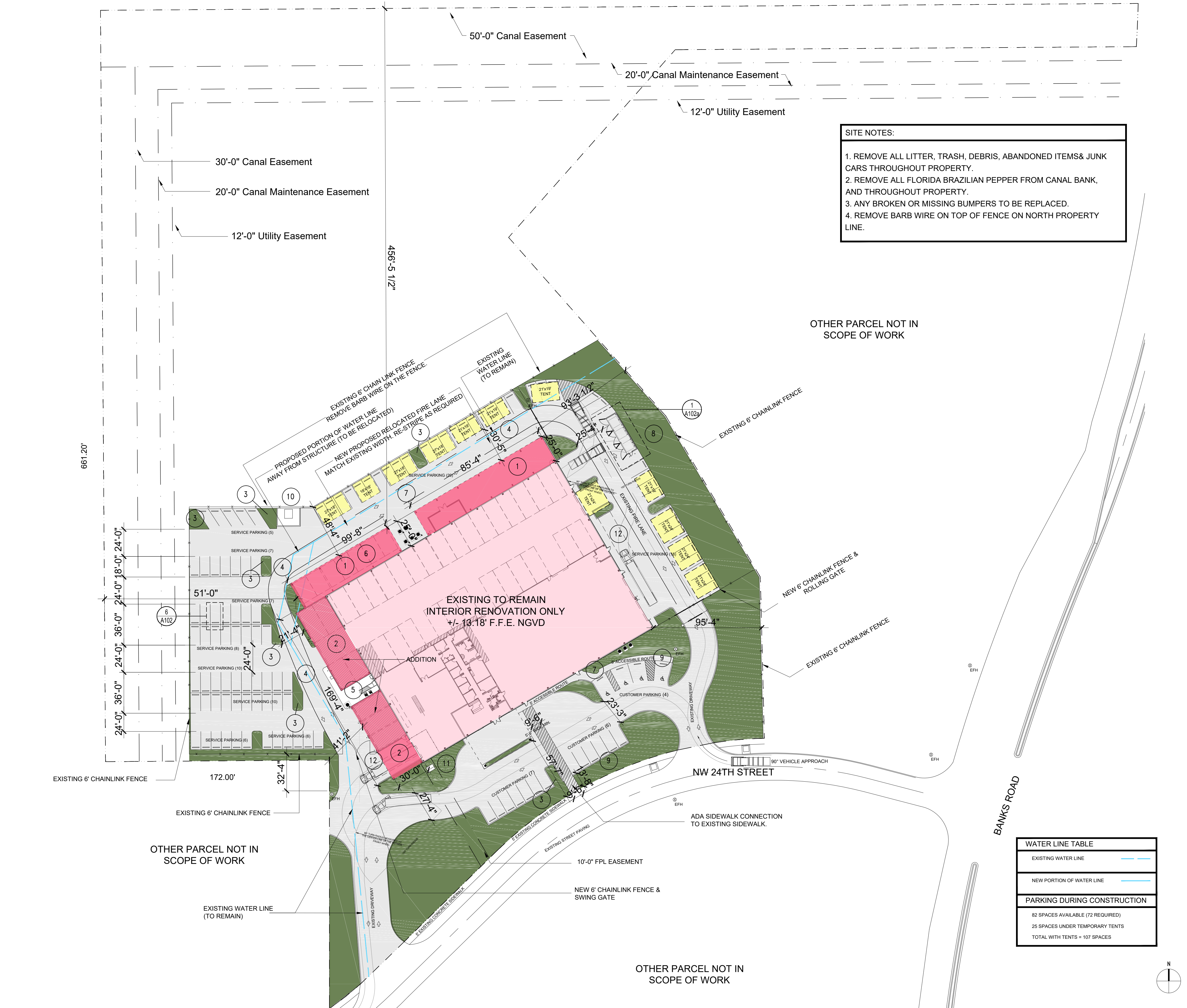
- Fire Alarm Shop Drawings
- Sprinklers Shop Drawings
- NOA Metal Building
- NOA for Doors and Windows
- NOA for Roof
- Signage

Sol-ARCH

ARCHITECTURE . INTERIORS . PLANNING . SUSTAINABLE DESIGN . VISUALIZATION
6780 SW 80TH STREET MIAMI FL 33143 - P 305.740.0723 F 305.740.0718

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Autonation Margate Collision Center



SITE NOTES:

1. REMOVE ALL LITTER, TRASH, DEBRIS, ABANDONED ITEMS& JUNK CARS THROUGHOUT PROPERTY.

2. REMOVE ALL FLORIDA BRAZILIAN PEPPER FROM CANAL BANK, AND THROUGHOUT PROPERTY.

3. ANY BROKEN OR MISSING BUMPERS TO BE REPLACED.

4. REMOVE BARB WIRE ON TOP OF FENCE ON NORTH PROPERTY LINE.

THE CONTRACTOR SHALL MAKE AVAILABLE TO THE BUILDING INSPECTOR ANY DOCUMENTATION NECESSARY TO VERIFY THAT ALL PRODUCTS REQUIRING APPROVAL PER FS 553 842 ARE IN COMPLIANCE AS PER PRODUCT APPROVAL REQUIREMENT.

BUILDING IS EQUIPPED WITH AUTOMATIC SPRINKLERS & FIRE ALARM		
ZONING DATA:	Re <u>u</u> ired	Pro <u>o</u> ided
Zoning Designation:	M-1 Light Industrial	M-1 Light Industrial
Intended Use:	27: Auto Sales	27: Auto Sales
Minimum Lot size / Width / Depth	No minimum re <u>u</u> ired	n/a
Set <u>u</u> back's:		
Street Yard (o <u>o</u> lar 80' R.O.W.)	35'	101' existing
Rear Yard (a <u>u</u> lting non-residential)	No minimum re <u>u</u> ired	81.1' existing
Side Yard (a <u>u</u> lting non-residential)	No minimum re <u>u</u> ired	76.6' existing
Height:	60'	46'-6" existing

FACILITY ANALYSIS: (OFF STREET PARKING)	
DESCRIPTION:	SQUARE FOOTAGE:
EXISTING LAND (SQ. FT.)	163,660 SQ.FT. - 100%
EXISTING BUILDING (SQ. FT.)	44,640 SQ.FT. - 27%
PROPOSED LAND (SQ. FT.)	163,660 SQ.FT. - 100%
AGGREGATE BUILDING COVERAGE (SQ. FT.)	52,619 SQ.FT. - 32%
EXISTING GREEN SPACE (SQ.FT.)	37,310 SQ.FT. - 23%
PROPOSED GREEN SPACE (SQ.FT.)	37,310 SQ.FT. - 23%
VEHICULAR USE AREA (SQ.FT.)	73,731 SQ.FT. - 45%

PARKING CALCULATIONS:		
Business & Ser <u>u</u> ices:	Re <u>u</u> ired	Pro <u>o</u> ided
1 space per 200 s <u>u</u> are ft.	2,558 / 200 = 12.79 (13)	-
Body Wor <u>u</u> k:		
1 space per each 2 mechanics.	30 / 2 = 15	-
Paint Wor <u>u</u> k & Parts:		
1 space per 500 s <u>u</u> are ft.	21,798 / 500 = 43.59 (44)	-
Total Par <u>u</u> king:	72	114 (After Tent Remo <u>u</u> al)

FLOOD CRITERIA:				
ADDRESS: 5401 W COPANS ROAD, MARGATE, FL				
	LOWEST FLOOR ELEVATION	PARKING ELEVATION	ADJACENT GRADE ELEV. (AVERAGE)	SWALE AREA ELEVATION
EXISTING/REQUIRED	13.18'	12.00'	12.00'	N/A
PROPOSED	13.18'	12.00'	12.00'	N/A

ALL ELECTRICAL, MECHANICAL AND PLUMBING WILL BE PLACED AT OR ABOVE THE BASE FLOOD ELEVATION. (B.F.E.)

ALL AREAS BELOW B.F.E. SHALL BE PROVIDED WITH A MINIMUM OF TWO (2) OPENINGS HAVING A TOTAL NET AREA OF NO LESS THAN ONE SQUARE INCH OF OPENING FOR EVERY SQUARE FOOT OF ENCLOSED AREA SUBJECT TO FLOODING. THE BOTTOM OF THE OPENING WILL BE NO HIGHER THAN ONE (1) FOOT ABOVE GRADE AND LOCATED ON DIFFERENT SIDES OF THE ENCLOSED AREA. OPENINGS WILL BE EQUIPPED WITH SCREENS OR LOUVERS. FLOOD RESISTANT MATERIALS WILL BE USED BELOW B.F.E.

ALTERNATIVELY SEE A CERTIFICATION BY THE P.E. ON THE PLAN NOTES INDICATING THAT THE DESIGN WILL BE ALLOWED FOR AUTOMATIC EQUALIZATION OF HYDROSTATIC FLOOD FORCES ON EXTERIOR WALLS.

THE SITE WILL BE GRADED IN A MANNER TO PREVENT THE FLOODING OF ADJACENT PROPERTIES. WHERE NECESSARY INTERCEPTORS SWALES WILL BE CONSTRUCTED ON-SITE WITH NO ENCROACHMENT OVER ADJACENT PROPERTIES.

0'-0" = 13.18' FT NGVD

SITE PLAN NOTES:	
1	NEW METAL CANOPY.
2	NEW ADDITION AND COVERED PARTS DELIVERY CANOPY AREA.
3	NEW LANDSCAPE ISLAND.
4	NEW FIRE LANE STRIPING TO MATCH EXISTING WIDTH.
5	NEW METAL STAIRS AND CONCRETE SLAB.
6	CONNECT NEW DRAIN TO EXISTING DRAIN. SEE SHEET C.2.0 FOR EROSION DETAILS.
7	ANY TRENCHING REQUIRED TO BE PATCHED TO MATCH EXISTING (ENTIRE SITE).
8	NEW CBS STRUCTURE 6'-0" HIGH ON EXISTING CONCRETE PAD. FOR TRASH & DUMPSTER. WITH SOLID GATES & 3' FOOT WIDE SURROUND HEDGE.
9	EXISTING WHEEL STOP AT CUSTOMER PARKING AREAS.
10	EXISTING PUMP AREA TO BE CLEANED UP.
11	FPL PAD & TRANSFORMER.
12	PROPOSED LOADING ZONE, 12'x45'.

LEGAL DESCRIPTION:

SHERMAN PLAT 144-26 B TRACT A LESS PT DESC'D AS, COMM AT NW COR TR A,S 661.21,ELY 25 TO POB,ELY 172.SLY 218.68,WLY ARC DIST OF 181.42,N ALG W/L TR A FOR 271.94 TO POB & LESS PT INC'D IN NW 24 ST R/W,LESS COMM NE COR TRACT A,SLY 38.05 TO POB, SLY 58.26,SW 100.SLY 217,SE 12, SLY 4.28,SW 100.SLY 166.98,SW 21.21,NW 35.53,WLY 98.01,NW 141.86,NW 164.29,NW 209.44,NE 220.82,NE 405.71 TO POB

LEGEND:	
	EXISTING BUILDING - 44,640 SQ.FT.
	(NEW ADDITION & NEW CANOPIES) - 7,979 SQ.FT.
	GREEN SPACE - 37,310 SQ.FT.
	VEHICULAR USE AREAS - 73,731 SQ.FT.
	TEMPORARY TENTS (12) - DURING CONSTRUCTION (WILL BE REMOVED 15 DAYS AFTER C.O.)
	PROPERTY LINE
	EFH - (EXISTING FIRE HYDRANTS)

WATER LINE TABLE	
EXISTING WATER LINE	
NEW PORTION OF WATER LINE	
PARKING DURING CONSTRUCTION	
82 SPACES AVAILABLE (72 REQUIRED)	
25 SPACES UNDER TEMPORARY TENTS	
TOTAL WITH TENTS = 107 SPACES	

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ARCHITECTURE - INTERIORS - PLANNING - SUSTAINABLE DESIGN - VISUALIZATION

REVISION NO.	DATE	COMMENTS
1	18-01-01-00	18-01-01-00
2	04-15-19	04-15-19
3	AS NOTED	AS NOTED
4	EH	EH
5	DC	DC

PROJ NO:

ISSUE DATE:

SCALE:

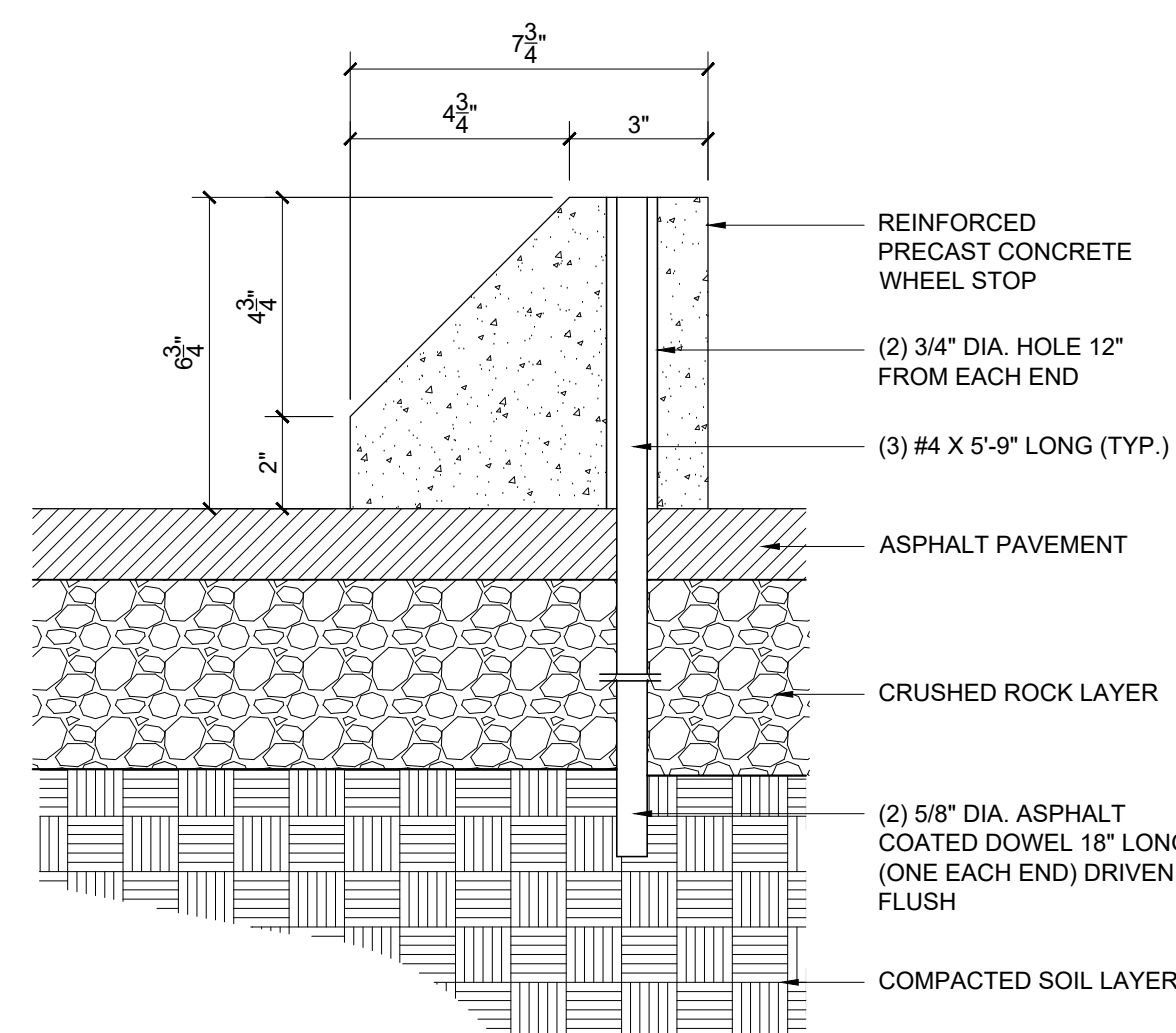
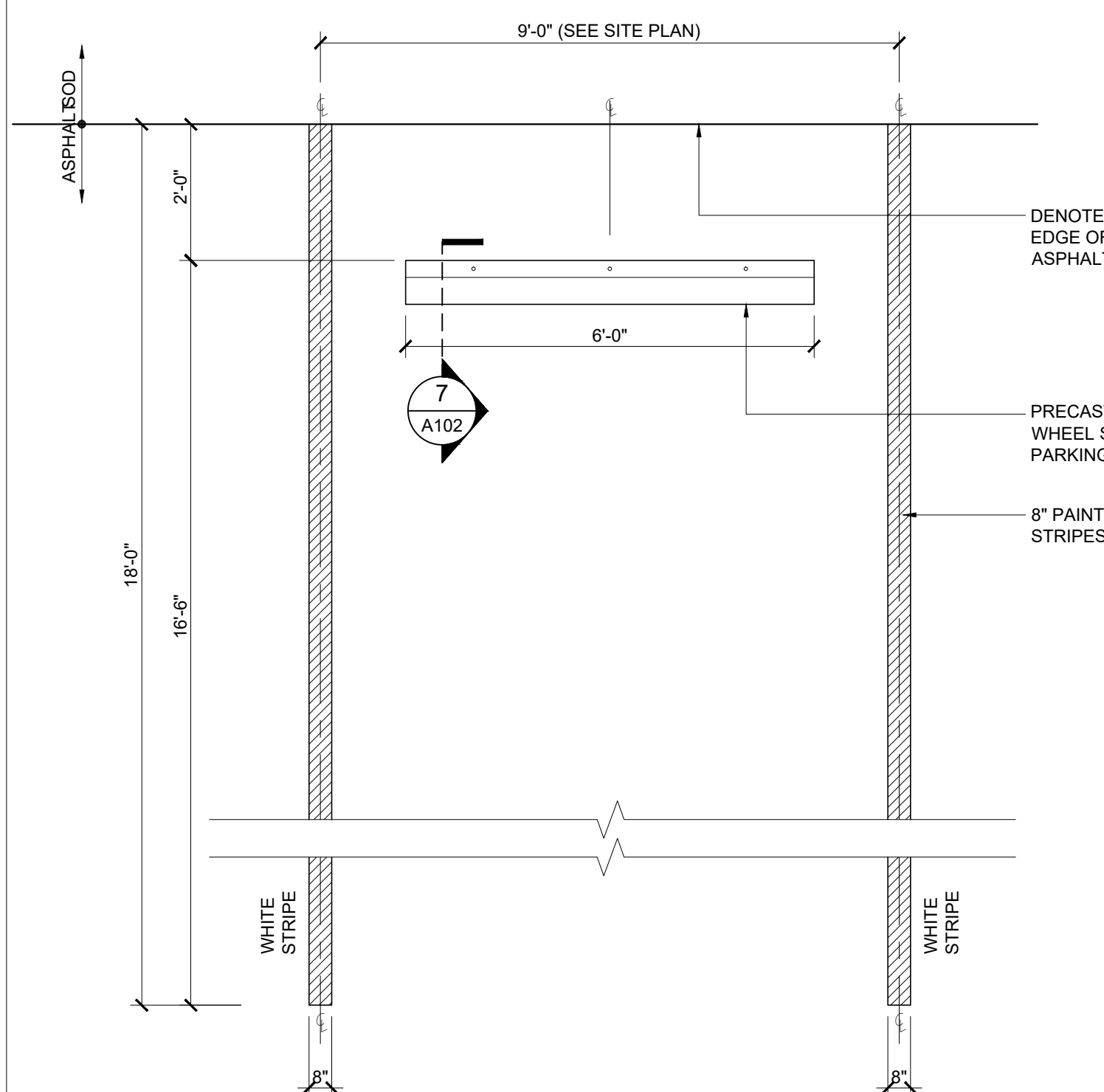
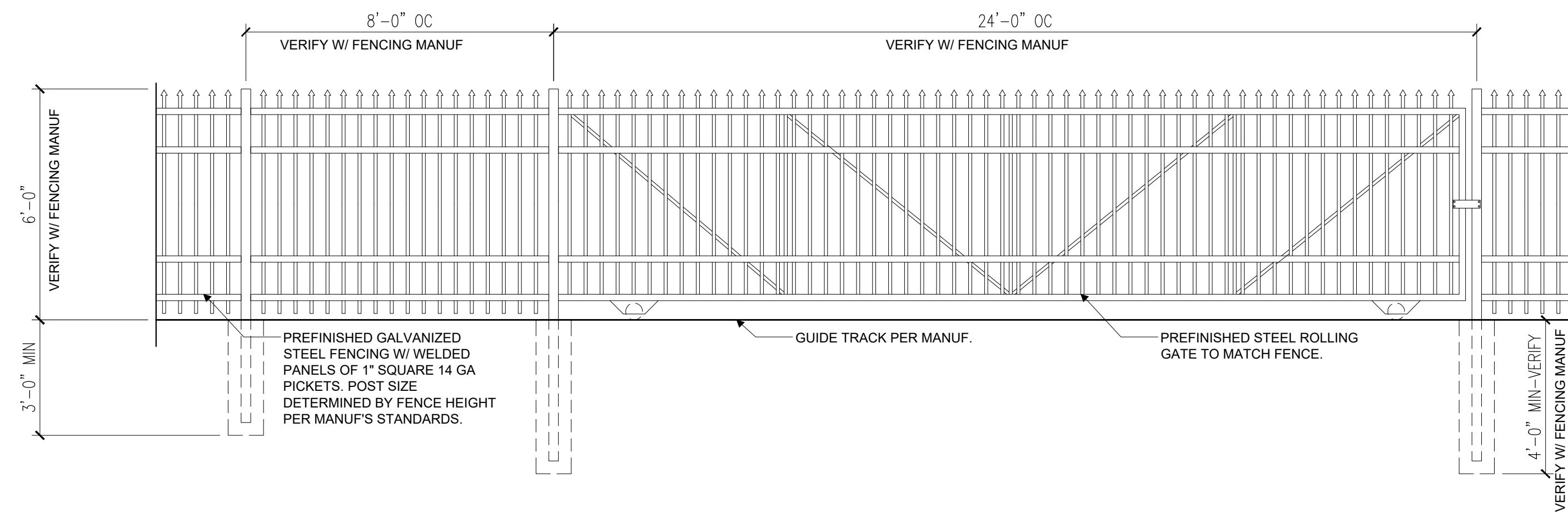
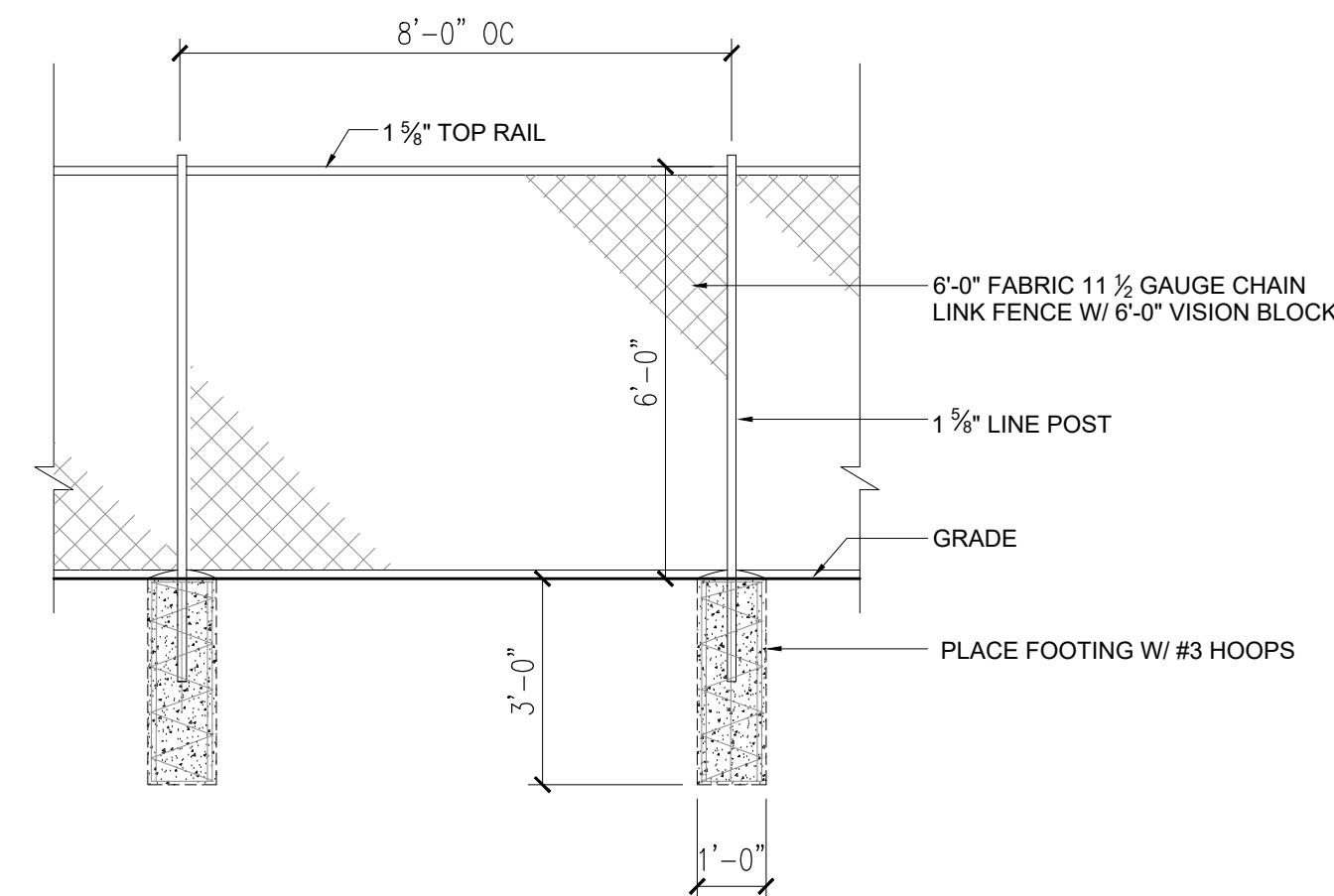
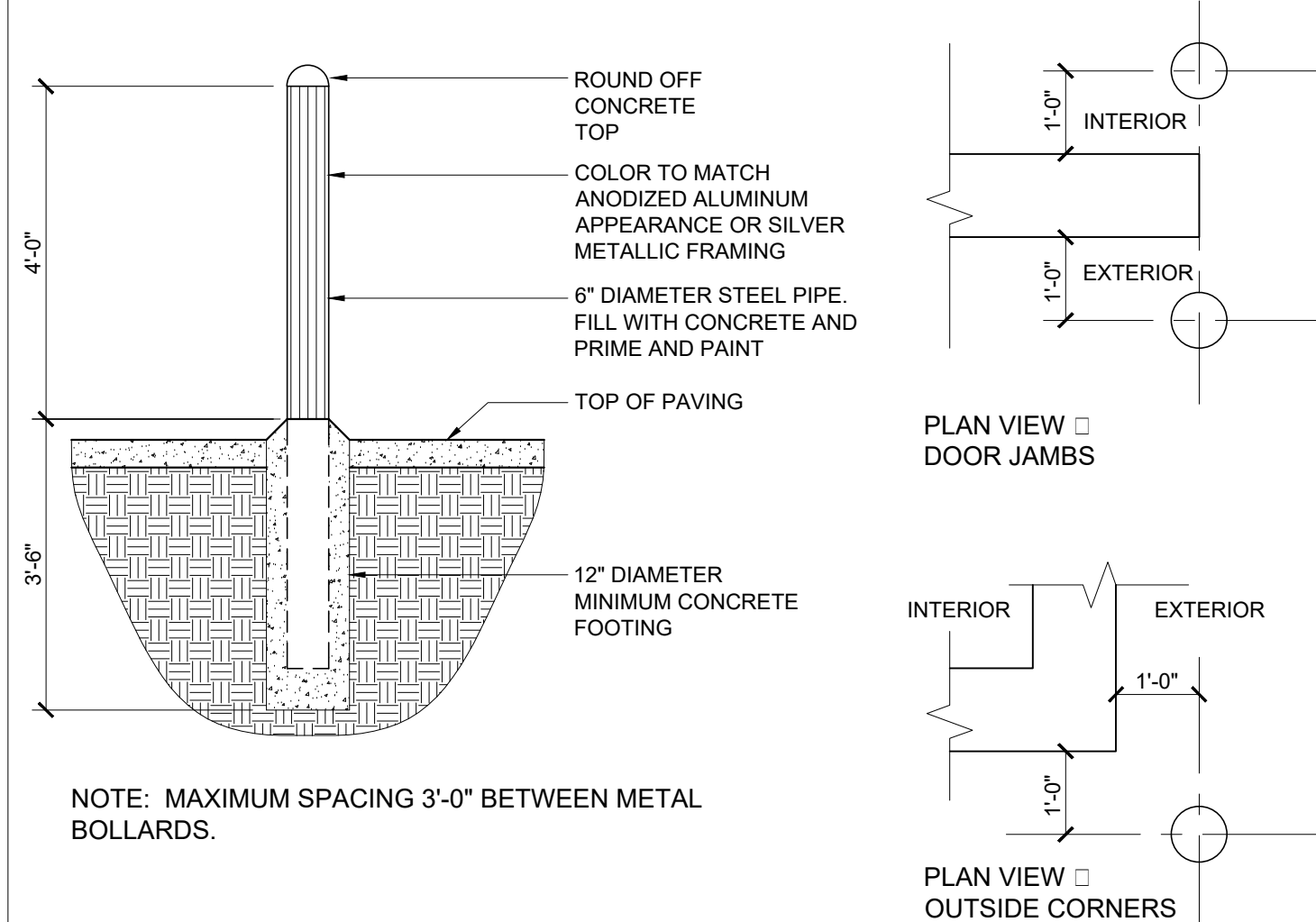
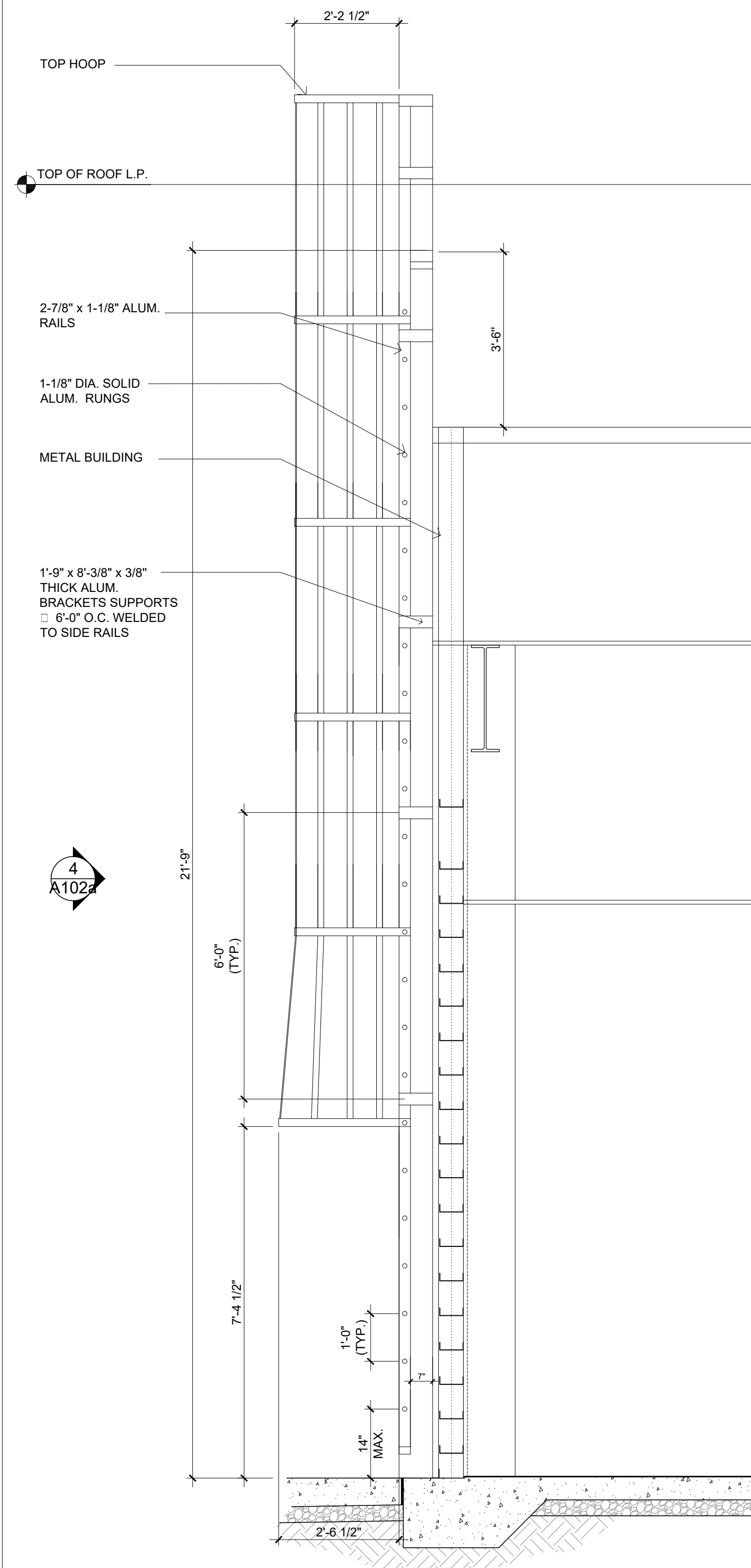
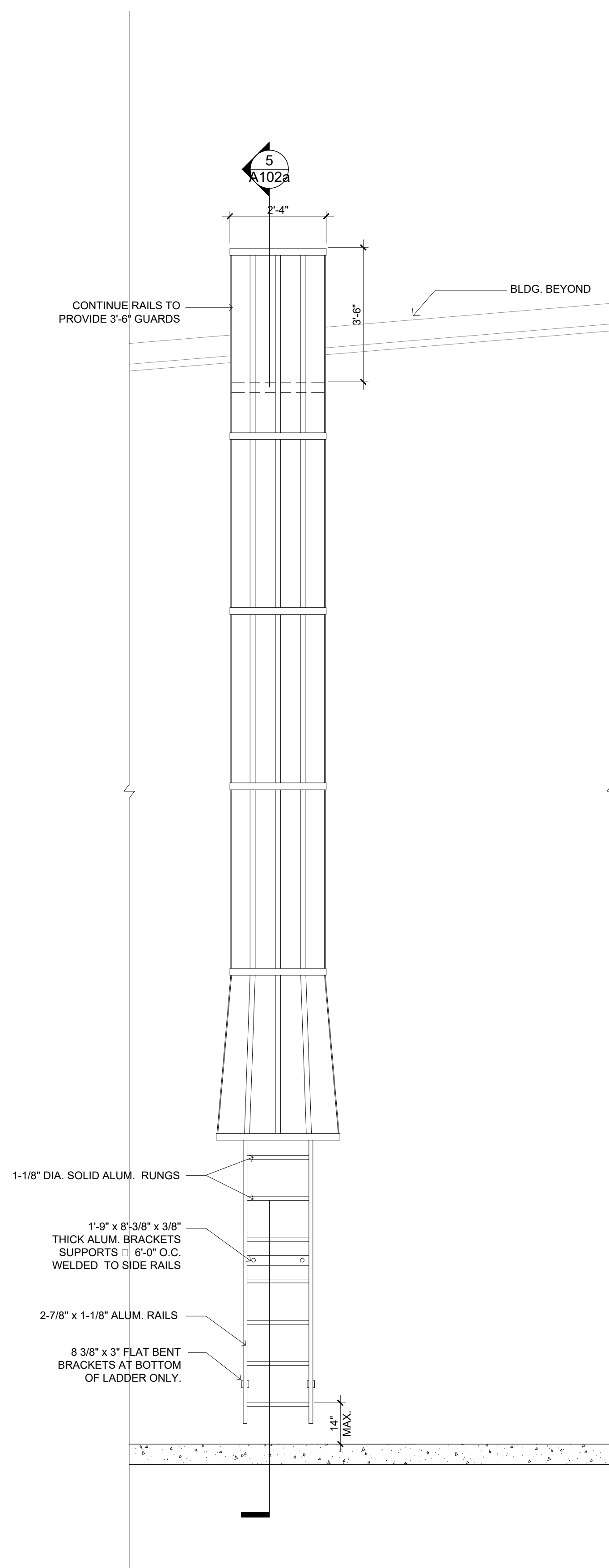
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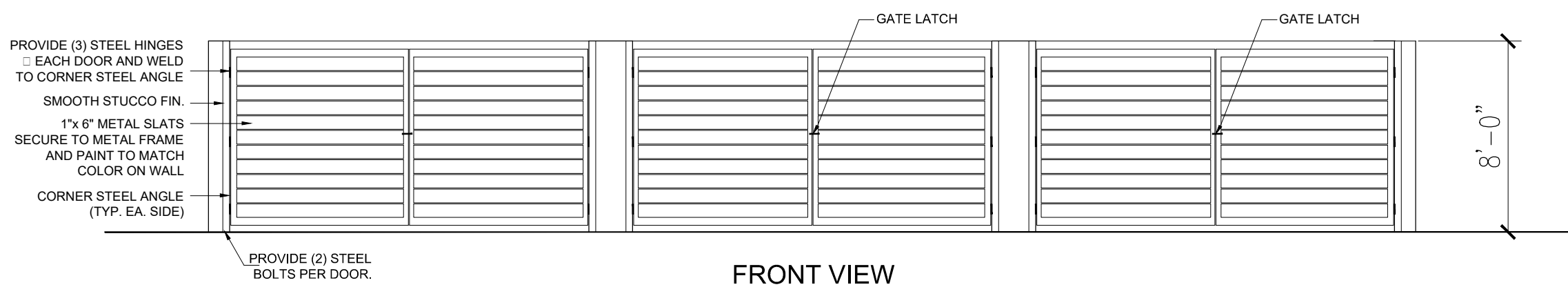
New Site Plan

Collision Center

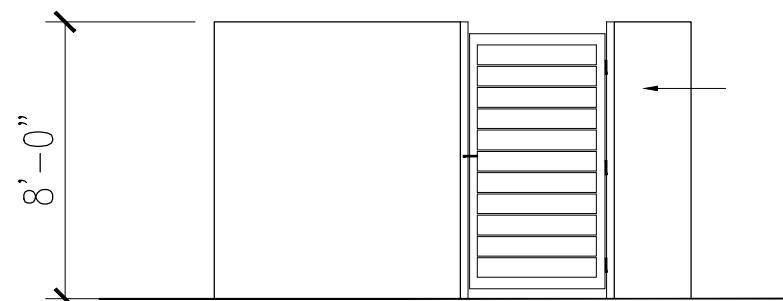
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FRONT VIEW



SIDE VIEW

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ARCHITECTURE - INTERIORS - PLANNING - SUSTAINABLE DESIGN - VISUALIZATION

REVISION NO.	DATE	COMMENTS
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WORK BEING DONE: DRC SITE PLAN SUBMITTAL

Margate Collision Center

5355 NW 24th St.
Margate, FL 33063

OWNERSHIP AND USE OF THESE DOCUMENTS & SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. WHETHER THE PROJECT THEY ARE MADE FOR IS EXECUTED OR NOT, THEY SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS OR FOR ADDITIONS TO THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT.

18-010-00
04-15-19
AS NOTED
EH
DC

PROJ. NO.:
ISSUE DATE:
SCALE:
DRAWN BY:
CHECKED BY:

Details

A102a

DULCE M. CONDE, RA ARCHITECT AR0015803
PRIMITIVO E. CONDE, RA ARCHITECT AR0014406
6780 SW 80TH STREET MIAMI FL 33143
P 305 740 0723 F 305 740 0718

DULCE M. CONDE, RA ARCHITECT AR0015803
PRIMITIVO E. CONDE, RA ARCHITECT AR0014406



- PLAN GENERAL NOTES:
- 1 PROVIDE PAINT & NEW CEILING TILES & LED LIGHTS & FLOORING IN EXISTING OFFICE AREA.
 - 2 NEW COFFEE BAR WITH UPPER AND LOWER CABINETS AND SINK.
 - 3 TV RELOCATED TO NORTH WALL.
 - 4 NEW DOOR.
 - 5 NEW WOMEN'S TECH RESTROOM OPEN TO SERVICE SHOP.
 - 6 AREA OF NEW WORK STATIONS, RECEPTION, CUSTOMER WAITING, RESTROOMS, BREAK ROOM AND HALLWAYS TO RECEIVE NEW PAINT, CEILING TILES AND LED LIGHTS AND FLOORING.
 - 7 PROVIDE TRANSITIONS TO FLOORING FROM NEW TO EXISTING FLOORS.
 - 8 NEW STOREFRONT SYSTEM OPENING TO MATCH EXISTING STOREFRONT HEIGHT, FRAME DOOR TO MATCH EXISTING HEIGHT AS REQUIRED.
 - 9 NEW ALUMINUM BAY 14'x28'.
 - 10 NEW ALUMINUM BAY WITH CURTAIN EXHAUST AS REQUIRED.
 - 11 NEW STRIPING.
 - 12 TIE IN SPRINKLER SYSTEM TO NEW BAY ADDITION.
 - 13 PROVIDE NEW A/C FOR SERVICE SHOP.
 - 14 PROVIDE NEW A/C FOR PAINT BOOTH AREA.
 - 15 NEW STAIR FROM 2ND FLOOR MEZZANINE AND PROVIDE SHOP DRAWINGS, CLOSED RISER. GC TO VERIFY HEIGHT TO SECOND FLOOR AREA.
 - 16 COVERED AREA FOR PARTS DELIVERY.
 - 17 NEW CONCRETE PAD WITH NEW & RELOCATED A/C'S.
 - 18 NEW DOOR BETWEEN BODY WORK AND PARTS STORAGE 8'-0" TALL.
 - 19 NEW CABINETS, UPPER & LOWER COUNTER TOP, SINK & FAUCET TO BE INSTALLED IN EXACT LOCATION. GC TO SUBMIT SHOP DRAWINGS.
 - 20 NEW WINDOW.
 - 21 NEW LOW SPEED AUTOMATIC DOOR WITH INSULATION.
 - 22 NEW PAINT AT SHOP WALLS & DOORS, FROM 0'-0" TO 8'-0" A.F.F. SEMI GLOSS GRAY AND BLACK STRIPE.
 - 23 NEW CONCRETE APRON WITH SLIGHT SLOPE.
 - 24 NEW PRINTING STATION.
 - 25 RECONFIGURED SINK AND TOILET IN ADA STALL TO COMPLY WITH ADA RESTROOMS CODES. (ALL OTHER FIXTURES TO REMAIN)
 - 26 NEW MOP SINK.
 - 27 EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN EXACT LOCATION.
 - 28 EXISTING HIGH VOLTAGE BOX TO REMAIN. GC TO COORDINATE NEW METAL BUILDING & FOUNDATION AROUND THIS, FIELD VERIFY LOCATION.
 - 29 ALL EXISTING FIELD COORDINATION (INVERT ELEVATION, CONNECTION POINTS, EXISTING LINES...) NEED TO BE CHECKED BEFORE ANY PART OF THIS PROJECT BEGINS. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICT.
 - 30 PROPOSED LOADING ZONE: 12'x45'.

LEGENDS:

- EXISTING WALLS TO REMAIN
- NEW WALL PART.
- NEW CONCRETE BLOCK
- EXISTING FURNITURE
- NEW FURNITURE

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ARCHITECTURE - INTERIORS - PLANNING - SUSTAINABLE DESIGN - VISUALIZATION

WORK BEING DONE: DRC SITE PLAN SUBMITTAL

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18-01-0-00
04-15-19
AS NOTED
EH
DC

PROJ. NO.:
ISSUE DATE:
SCALE:
DRAWN BY:
CHECKED BY:

New Floor Plan
Collision Center
Blow Up

A201a

Margate Collision Center

5355 NW 24th St.
Margate, FL 33063

REVISION NO. DATE COMMENTS

5355 NW 24th Street MARG FL 33143
P 305 740 0723 F 305 740 0718
DULCE M. CONDE, RA, ARCHITECT APO018903
PRIMITIVO E. CONDE, RA, ARCHITECT ARO014408

1 New Floor Plan Collision Center - Blow Up
SCALE: 1/8" = 1'-0"

2 General Notes
SCALE: NTS



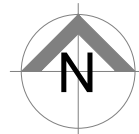
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| | FINISH NOTES: |
|--|---------------|

5 Project Notes
SCALE: N.T.S.

SHEET

A301

DULCE M. CONDE, RA ARCHITECT AR0015803
PRIMITIVO E CONDE RA ARCHITECT AR0014406
6780 SW 80TH STREET MIAMI FL 33143
D 205 740.0722 F 305 740.0718



EXISTING TREE DISPOSITION PLAN

SCALE: 0 32 64 96 feet

1" = 32'

PROPERTY LINE

661.20'

CANAL

EXISTING SERVICE
PARKING TO REMAIN

EXISTING SERVICE
PARKING TO REMAIN

PROPERTY LINE

172.06'

EXISTING COLLISION CENTER
(INTERIOR REMODELING AND
NEW ADDITION. SEE SHEET A101)

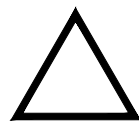
UNDERSTORY VEGETATION

OTHER PARCEL NOT IN
SCOPE OF WORK

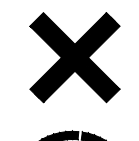
NW 24TH STREET

OTHER PARCEL NOT IN
SCOPE OF WORK

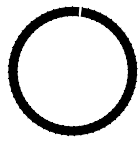
TREE DISPOSITION LEGEND



Existing tree or palm to be transplanted



Existing tree or palm to be removed



Existing tree and palm to remain in their existing location and be protected, no construction or excavation shall be permitted within the dripline of the trees.

Tree / Palm

LIMITS OF EXISTING TREE & PALM PROTECTION ZONE

Symbols do not show the actual canopy of the trees, for clarity, always cross check with Existing Tree Disposition List for sizes and disposition status. Contact landscape architect

EXISTING TREE DISPOSITION LIST								
NUMBER	BOTANICAL NAME	COMMON NAME	HEIGHT (FT)	SPREAD (FT)	DBH (INCHES)	TREE CANOPY (SQ.FT)	CONDITION	DISPOSITION
1	Swietenia mahagani	Mahogany	35	25	24		Fair	Remain
2	Quercus virginiana	Live Oak	30	25	16		Fair	Remain
3	Quercus virginiana	Live Oak	30	30	12		Fair	Remain
4	Quercus virginiana	Live Oak	30	25	16		Fair	Remain
5	Ptychosperma elegans	Alexander Palm - Double	22	12	5+5		Fair	Remain
6	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	16	12	8		Fair	Remain
7	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	16	12	8		Fair	Remain
8	Syagrus romanzoffiana	Queen Palm	24	12	5		Fair	Remain
9	Syagrus romanzoffiana	Queen Palm	28	12	7		Fair	Remain
10	Syagrus romanzoffiana	Queen Palm	22	12	6		Fair	Remain
11	Syagrus romanzoffiana	Queen Palm	24	12	6		Fair	Remain
12	Syagrus romanzoffiana	Queen Palm	26	12	6		Fair	Remain
13	Quercus virginiana	Live Oak	5	30	20		Fair	Remain
14	Quercus virginiana	Live Oak	25	20	13		Fair	Remain
15	Sabal palmetto	Sabal Palm	24	8	10		Fair	Remain
16	Sabal palmetto	Sabal Palm	20	8	9		Fair	Remain
17	Sabal palmetto	Sabal Palm	20	8	10		Fair	Remain
18	Conocarpus erectus	Green Buttonwood	22	15	15		Fair	Remain
19	Conocarpus erectus	Green Buttonwood	20	15	20		Fair	Remain
20	Conocarpus erectus	Green Buttonwood	20	15	20		Fair	Remain
21	Conocarpus erectus	Green Buttonwood	12	10	9		Fair to Poor	Remain
22	Sabal palmetto	Sabal Palm	20	8	10		Fair	Remain
23	Sabal palmetto	Sabal Palm	20	8	10		Fair	Remain
24	Conocarpus erectus	Green Buttonwood	18	15	12		Fair	Remain
25	Sabal palmetto	Sabal Palm	18	8	8		Fair	Remain
26	Sabal palmetto	Sabal Palm	16	8	8		Fair	Remain
27	Sabal palmetto	Sabal Palm	22	8	8		Fair	Remain
28	Ptychosperma elegans	Alexander Palm - Double	20	8	5+5		Fair	Remove
29	Ptychosperma elegans	Alexander Palm - Double	20	8	4+5		Fair	Remain
30	Sabal palmetto	Sabal Palm	32	10	9		Fair	Remain
31	Bursera simaruba	Gumbo Limbo	30	30	22		Fair	Remain
32	Sabal palmetto	Sabal Palm	22	8	9		Fair	Remain
33	Sabal palmetto	Sabal Palm	18	8	10		Fair	Remain
34	Sabal palmetto	Sabal Palm	22	8	10		Fair	Remain
35	Sabal palmetto	Sabal Palm	22	8	12		Fair	Remain
36	Sabal palmetto	Sabal Palm	18	8	10		Fair	Remain
37	Sabal palmetto	Sabal Palm	18	8	12		Fair	Remain
38	Sabal palmetto	Sabal Palm	22	8	9		Fair	Remain
39	Sabal palmetto	Sabal Palm	22	8	10		Fair	Remain
40	Sabal palmetto	Sabal Palm	18	8	12		Fair	Remain
41	Sabal palmetto	Sabal Palm	18	8	10		Fair	Remain
42	Sabal palmetto	Sabal Palm	22	8	10		Fair	Remain
43	Sideroxylon foetidissimum	Mastic	36	36	22		Fair	Remain
44	Sideroxylon foetidissimum	Mastic	35	36	24		Fair	Remain
45	Swietenia mahagani	Mahogany	36	36	24		Fair	Remain
46	Swietenia mahagani	Mahogany	30	25	15		Fair	Remain
47	Swietenia mahagani	Mahogany	30	25	20		Fair	Remain
48	Sabal palmetto	Sabal Palm	18	8	8		Fair	Remain
49	Sabal palmetto	Sabal Palm	18	8	7		Fair	Remain
50	Sabal palmetto	Sabal Palm	22	8	9		Fair	Remain
51	Sabal palmetto	Sabal Palm	22	8	12		Fair	Remain
52	Sideroxylon foetidissimum	Mastic	36	36	24		Fair	Remain
53	Sideroxylon foetidissimum	Mastic	32	30	30		Fair	Remain
54	Sideroxylon foetidissimum	Mastic	32	30	24		Fair	Remain
55	Sideroxylon foetidissimum	Mastic	32	30	48		Fair	Remain
56	Sideroxylon foetidissimum	Mastic	32	30	30		Fair	Remain
57	Sabal palmetto	Sabal Palm	22	8	12		Fair	Remain
58	Sabal palmetto	Sabal Palm	18	8	8		Dead	Remove
59	Sabal palmetto	Sabal Palm	22	8	14		Fair	Remain
60	Sabal palmetto	Sabal Palm	22	8	10		Fair	Remain
61	Sabal palmetto	Sabal Palm	18	8	9		Fair	Remain
62	Sabal palmetto	Sabal Palm	18	8	7		Fair	Remain
63	Sideroxylon foetidissimum	Mastic	32	30	48		Fair	Remain
64	Sideroxylon foetidissimum	Mastic	32	30	30		Fair	Remain
65	Sideroxylon foetidissimum	Mastic	18	25	30		Fair to Poor	Remain
66	Sideroxylon foetidissimum	Mastic	30	36	30		Fair	Remain
67	Sideroxylon foetidissimum	Mastic	30	36	30		Fair	Remain
68	Sideroxylon foetidissimum	Mastic	30	36	24		Fair	Remain
69	Sideroxylon foetidissimum	Mastic	30	36	22		Fair	Remain
70	Syagrus romanzoffiana	Queen Palm	22	12	6		Fair	Remain
71	Syagrus romanzoffiana	Queen Palm	22	12	7		Fair	Remain
72	Syagrus romanzoffiana	Queen Palm			7		Dead	Remove
73	Quercus virginiana	Live Oak	30	30	32		Fair	Remain
74	Quercus virginiana	Live Oak	30	30	16		Fair	Remain
75	Quercus virginiana	Live Oak	30	30	8		Fair	Remain
76	Quercus virginiana	Live Oak	30	30	12		Fair	Remain
77	Quercus virginiana	Live Oak	30	30	16		Fair	Remain
78	Swietenia mahagani	Mahogany	36	36	22		Fair	Remain
79	Syagrus romanzoffiana	Queen Palm	18	12	8		Fair	Remain
80	Syagrus romanzoffiana	Queen Palm	18	12	8		Fair	Remain
81	Syagrus romanzoffiana	Queen Palm	22	12	9		Fair	Remain
82	Syagrus romanzoffiana	Queen Palm	22	12	12		Fair	Remain
83	Syagrus romanzoffiana	Queen Palm	18	12	8		Fair	Remain
84	Syagrus romanzoffiana	Queen Palm	22	12	13		Fair	Remain
85	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	22	15	8		Fair	Remain
86	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	22	15	9		Fair	Remain
87	Lagerstroemia indica 'Natchez'	Natchez Crape Myrtle	22	15	8		Fair	Remain
88	Swietenia mahagani	Mahogany	36	30	24		Fair	Remain
89	Syagrus romanzoffiana	Queen Palm	22	10	6		Fair	Remain
90	Syagrus romanzoffiana	Queen Palm	22	10	7		Fair	Remain
91	Syagrus romanzoffiana	Queen Palm	22	10	8		Fair	Remain
92	Swietenia mahagani	Mahogany	36	30	22		Fair	Remain
93	Swietenia mahagani	Mahogany	36	30	24		Fair	Remain
94	Swietenia mahagani	Mahogany	36	30	24		Fair	Remain
95	Swietenia mahagani	Mahogany	36	30	28		Fair	Remain
96	Quercus virginiana	Live Oak	12	6	2		Good	Remain
97	Quercus virginiana	Live Oak	12	6	2		Good	Remain
98	Quercus virginiana	Live Oak	12	6	2		Good	Remain
99	Quercus virginiana	Live Oak	12	6	2		Good	Remain
100	Quercus virginiana	Live Oak	12	6	2		Good	Remain
101	Quercus virginiana	Live Oak	30	30	16		Fair	Remain
102	Quercus virginiana	Live Oak	30	30	8		Fair	Remain
103	Quercus virginiana	Live Oak	30	30	12		Fair	Remain
104	Quercus virginiana	Live Oak	30	30	16		Fair	Remain
105	Quercus virginiana	Live Oak	30	30	12		Fair	Remain
106	Quercus virginiana	Live Oak	30	30	12		Fair	Remain
TOTAL PROPOSED CANOPY LOSS (in square feet)						0		

NOTE: Shinus teretifolius (Florida holly/Brazilian pepper) is a prohibited species per 23-5(A)(6) and considered a nuisance species per 23-17 of the Margate Code of Ordinances. All shinus teretifolius needs to be removed from the canal bank and throughout the property.

SHEET

PROJ. NO.: 18-010-00
ISSUE DATE: 04-15-19
SCALE: AS NOTED
DRAWN BY: EH
CHECKED BY: DC

Existing Tree
Disposition Plan

L100

WORK BEING DONE: DRC SITE PLAN SUBMITTAL

Margate Collision Center
5355 NW 24th St.
Margate, FL 33063

REVISION NO.

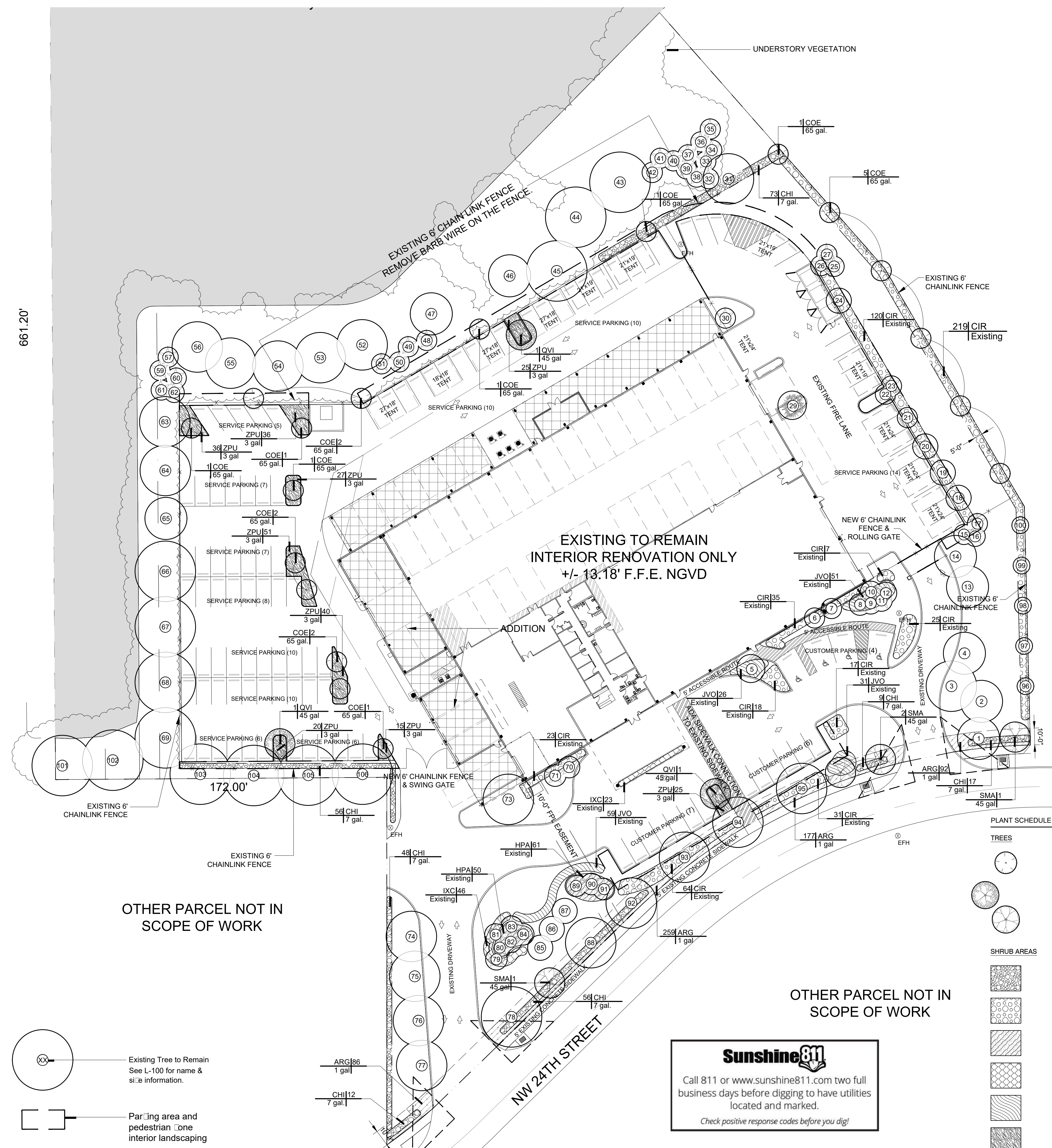
DATE









COMMENTS

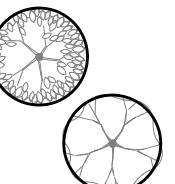
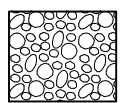
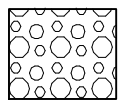
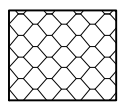
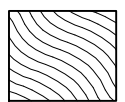

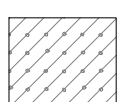
So ARCH

ARCHITECTURE - INTERIORS - PLANNING - SUSTAINABLE DESIGN - VISUALIZATION

DULCE M. CONCEJA ARCHITECT A00018903
P.305 40 0725 F.305 740 0716



CITY OF MARGATE LANDSCAPE LEGEND-CHAPTER 23			
ZONING DESIGNATION: M1 LIGHT INDUSTRIAL			
<u>REQUIRED LANDSCAPING ADJUTTING R.O.W</u>	<u>REQUIRED</u>	<u>PROVIDED</u>	<u><input type="checkbox"/> NATIVES</u>
Landscape strip of 10' adjacent to and parallel with row			
1 shade tree for every 40 lf of frontage. 464 LF / 40 =	11	11	100 <input type="checkbox"/>
Hedge shall <input type="checkbox"/> be planted within the landscape strip and parallel with the street. All hedges must <input type="checkbox"/> be planted a minimum of two (2) feet <input type="checkbox"/> ac from any public sidewalk <input type="checkbox"/>			
		99 Exist. + 94 Prop. = 193	100 <input type="checkbox"/>
The remaining area of this strip shall <input type="checkbox"/> be covered with ground covers and turf. Ground covers shall cover at least fifty (50) per cent of the landscaping strip not occupied by trees and shrubs.			
<u>REQUIRED LANDSCAPING TO OTHER PERIMETERS</u>			
Landscape strip of 5' in width along parcel lines			
1 shade tree for every 75 LF.			
Property Line at East 380 LF / 75 =	5	5 Exist. + 5 Prop. 10	100 <input type="checkbox"/>
Along Canal at North 372 LF / 75 =	5	2 Exist. + 5 Prop. 7	100 <input type="checkbox"/>
Property Line at West 582 LF / 75 =	8	15 Exist.	53 <input type="checkbox"/>
The remaining area of the perimeter landscape strip shall <input type="checkbox"/> be planted with small ornamental trees, shrubs, ground covers, and turf. Not more than thirty (30) per cent of the perimeter landscape strip may <input type="checkbox"/> be sodded with turf.			
<u>REQUIRED LANDSCAPING TO PARKING AREA AND PEDESTRIAN ZONE INTERIOR</u>			
Off-street parking areas shall provide at least twenty (20) square feet of interior landscaping for each parking space.			
Total parking spaces = 115 x 20 s.f. =	2,300 s.f.	8,041 s.f.	
There shall <input type="checkbox"/> be one (1) shade tree and five (5) shrubs per two hundred (200) square feet, or fraction thereof, of interior landscaping.			
(2,300 s.f. / 200) <input type="checkbox"/> 1 =	12	17	100 <input type="checkbox"/>
(2,300 s.f. / 200) <input type="checkbox"/> 5=	58	405	100 <input type="checkbox"/>
All such areas shall <input type="checkbox"/> be landscaped with turf, ground covers, and shrubs. Not more than thirty (30) per cent of the parking area interior landscaping may <input type="checkbox"/> be sodded with turf.			

PLANT SCHEDULE										
TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	DBH/CAL	HGT	SRD	DETAIL	REMARKS
	COE	16	Conocarpus erectus	Green Buttonwood	65 gal.	3"	14' OA	4' - 6'		Drought Tolerant - STD - Florida Native
	QVI	3	Quercus virginiana	Southern Live Oak	45 gal	3"	14' OA	5'-6'		Florida Native
	SMA	4	Swietenia mahagoni	West Indian Mahogany	45 gal	3"	14' OA	5'-6'		Drought Tolerant - STD - Florida Native
SHRUB AREAS										
	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	HEIGHT	SPREAD	SPACING	DETAIL	REMARKS
	CHI	271	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	7 gal.	4' OA	3'	36" o.c.		Florida Native
	CIR	559	Chrysobalanus icaco 'Red Tip'	Red Tip Cocoplum	Existing	4' OA	Existing	36" o.c.		Florida Native
	HPA	111	Hamelia patens	Firebush	Existing	4' OA	Existing	30" o.c.		Florida Native
	IXC	69	Ixora coccinea 'Nora Grant'	Red Ixora	Existing	3' OA	Existing	30" o.c.		
	JVO	167	Jasminum volubile	Wax Jasmine	Existing	2'	Existing	30" o.c.		
	ZPU	314	Zamia floridana	Coontie	3 gal	18" - 24" OA	18" - 24"	24" o.c.		Florida Native - Miami-Dade Landscape Manual
GROUND COVERS										
	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	HEIGHT	SPREAD	SPACING	DETAIL	REMARKS
	ARG	614	Arachis glabrata	Perennial Peanut	1 gal	6" OA	6"	18" o.c.		

NOTES:

1. All mechanical equipment including, but not limited to Backflow Preventor, Pumps, Electric, Phone or Cable Boxes, Lift Stations, Etc. shall be screened on 3 sides from view using an approved hedge, fence or wall.
2. All light poles if any shown on plan shall be a minimum of 15' from tree locations.
3. The Landscape Architect must be notified when the plant material has been set in place to approve final locations, prior to installation.

GENERAL NOTES

1. Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. All Utility companies and/or the General Contractor shall be notified to verify utility locations prior to digging. Utility trenching is to be coordinated with the Landscape plans prior to beginning of project. The Owner or Landscape Architect shall not be responsible for damage to utility or irrigation lines.
2. Landscape Contractor shall examine the site and become familiar with conditions affecting the installation prior to submitting bids. Failure to do so shall not be considered cause for change orders.
3. Landscape Contractor is responsible for verifying all plant quantities prior to bidding and within (7) seven calendar days of receipt of these plans shall notify the Landscape Architect in writing of any and all discrepancies. In case of discrepancies planting plans shall take precedence over plant list.
4. No substitutions are to be made without prior consent of the Landscape Architect. Plant material supply is the responsibility of the Landscape Contractor, and he/she shall take steps to insure availability at time of planting.
5. All plant material shall meet or exceed the size on the plant list. In all cases meeting the height and the spread specifications shall take precedence over container size.
6. All planted areas to be outfitted with automatic irrigation system providing 100% coverage and 50% overlap. A rain sensor must be part of the irrigation system.
7. Landscape Contractor shall be responsible for providing temporary hand watering to all proposed & landscape areas, during construction.
8. The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on the Tree/Palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing unwanted trees, palms, shrubs, groundcovers, sod and weeds within landscape areas.
9. All permitting and fees to be the responsibility of the Contractor.

PLANTING NOTES

1. Landscape Contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, planting soil, herbicide, preemergence herbicide, seed, and mulch. Landscape Contractor to provide Landscape Architect with at least 5 days notice prior to tree installation.
2. Landscape Contractor shall guarantee all plant material for a period of one year from the day of final acceptance by the Landscape Architect.
3. All plant material shall be Florida #1 or better, as defined in the Grades and Standards for Nursery Plants, Part I and II by the State of Florida Department of Agriculture.
4. Landscape Contractor is responsible for scheduling a nursery visit for Landscape Architect to approve all trees, palms and shrubs prior to delivery to the project site.
5. Landscape Contractor shall coordinate his work with that of the Irrigation and Landscape Lighting Contractor.
6. The Landscape Contractor shall treat planted areas with preemergence herbicide after weeds and grass have been removed. Landscape Contractor shall apply pre emergent herbicide per manufacturer's recommendation, wait period prior to planting as specified. Planting soil mix/backfill shall be clean and free of construction debris, weeds, rocks and noxious pests and disease.
7. All soil mix in planting beds for ground covers, shrubs, palms and trees shall be as per details. All other areas shall be dressed with a minimum of 4" topsoil "if required".
8. All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
9. All synthetic mulch, string, cords or wire assets shall be removed before trees are planted, without breaking the soil ball. All synthetic tape shall be removed from branches and trunks prior to final acceptance. The top 1/3 of natural mulch shall be removed, after the tree is set in the planting hole and before the tree is backfilled. Landscape Contractor is to check for root defects including deep planting in the root ball and circling roots, trees with root problems will not be accepted.
10. Landscape Contractor is responsible for mulching all plant beds and planters with a minimum 3" layer of natural color Eucalyptus or Enviro mulch immediately after planting. In no case shall Cypress mulch be used.
11. All Trees/Palms in sod areas are to receive a 48" diameter mulched saucer at the base of the trunk respectively.
12. Landscape Contractor shall guy and stake all trees and palms as per specifications and details. No nails, screws or wiring shall penetrate the outer surface of trees and palms. All guying and staking shall be removed twelve months after planting.
13. All palm and tree guy wires and staking are to be flagged for visibility, for their duration. All unattended and unplanted tree pits shall be properly barricaded and flagged during construction.
14. All crooked branches and clear trunk branches on street trees are to be pruned according to ANSI A - 300 Guidelines for Tree Pruning to min. 5' - 0" height clearance to the base of canopy.
15. Landscape Contractor shall fertilize plant material as needed to support optimum healthy plant growth. All fertilization shall be performed in compliance with the latest ANSI A300 (Part 2) Standards.
16. Stake all trees and palms for approval by Landscape Architect prior to installation.
17. Any sod areas damaged by construction are to be replaced with St. Augustine 'Floritam' sod.
18. All areas within limits of work not covered by walls, buildings, playground, and/or any other hardscape feature shall be sodded with St. Augustine 'Floritam' sod.
19. St. Augustine 'Floritam' - Contractor's responsibility to verify quantity.
20. Install root barrier as per manufacturer's recommendation on all large trees that are 6' or closer to any pavement or building, as shown on details page.
21. Root barrier shall be Vespro Inc. or approved equal.

1 General Planting Notes
SCALE: N.T.S.

ONE YEAR - TREE MAINTENANCE PLAN

All newly planted trees to be guaranteed for a period of one year and in accordance with the following:

Planting Day:

- Keep roots moist; do not allow the roots to dry out.
- Remove turf from planting area.
- Dig planting hole wide and shallow. The hole should be 2-3 times wider in all directions than the root spread.
- Prune only dead or broken branches.
- Remove all twine or rope from trunk and branches.
- Remove planting container and mulch (any material that would constrict growth of roots: wire, plastic, wooden basket)
- Make sure that root flare is at soil level. (Rule of thumb: first root closest to soil should be an inch below soil surface).
- Do not use amendments in the planting hole.
- Water tree at planting to remove air pockets. After backfilling gently firm soil, do not pack soil. Heavily packing will remove air space in soil.
- Do not mound soil against trunk of tree.
- Mulch outer rooting area with 2-4" of mulch (wood chips, shredded bark, etc.) Keep mulch 2-4" from trunk of tree since this could create a favorable environment for fungi.
- Fertilizer is not recommended for newly planted trees. (Consider time-released fertilizer, if there is a need to fertilize).

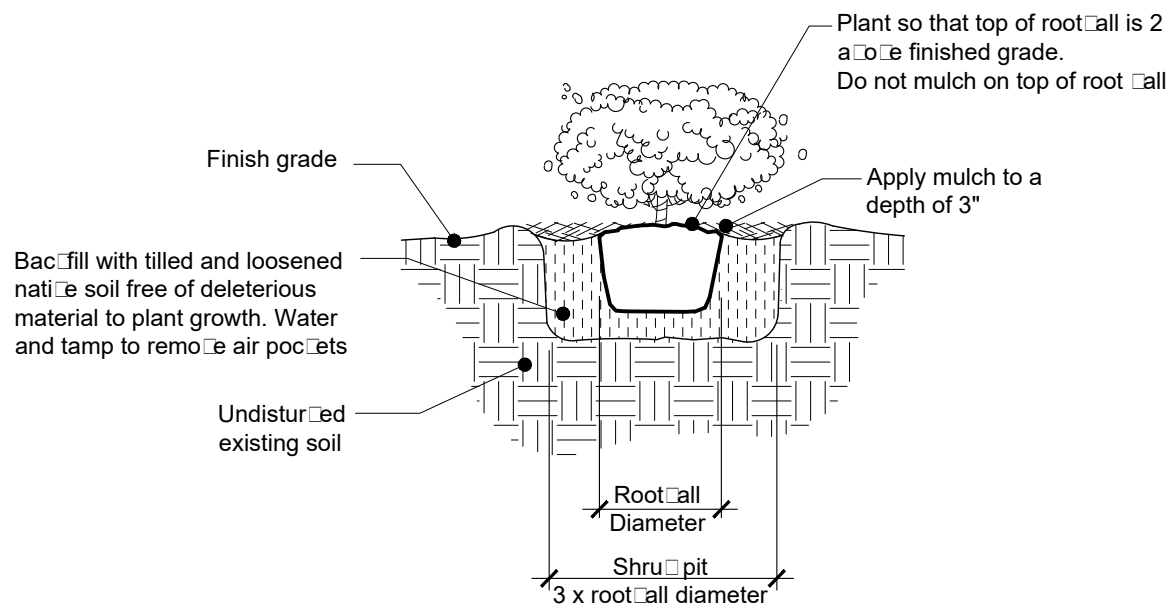
After Planting:

- Plants shall be watered in accordance with specification as provided on the irrigation plans.
- All lawn areas shall be mowed weekly during growing season and bi-weekly in non-growing season.
- Fertilizer shall be applied in the fall or early spring. Although it is not harmful to apply fertilizer at any time during the year.
- Inspect trees for disease or insect problems.
- Monitor health and vigor of trees.
- Pruning of all shrubs shall be done regularly to control shape and form. All pruning shall be done in accordance with the American National Standards Institute (ANSI) A-300 standards.

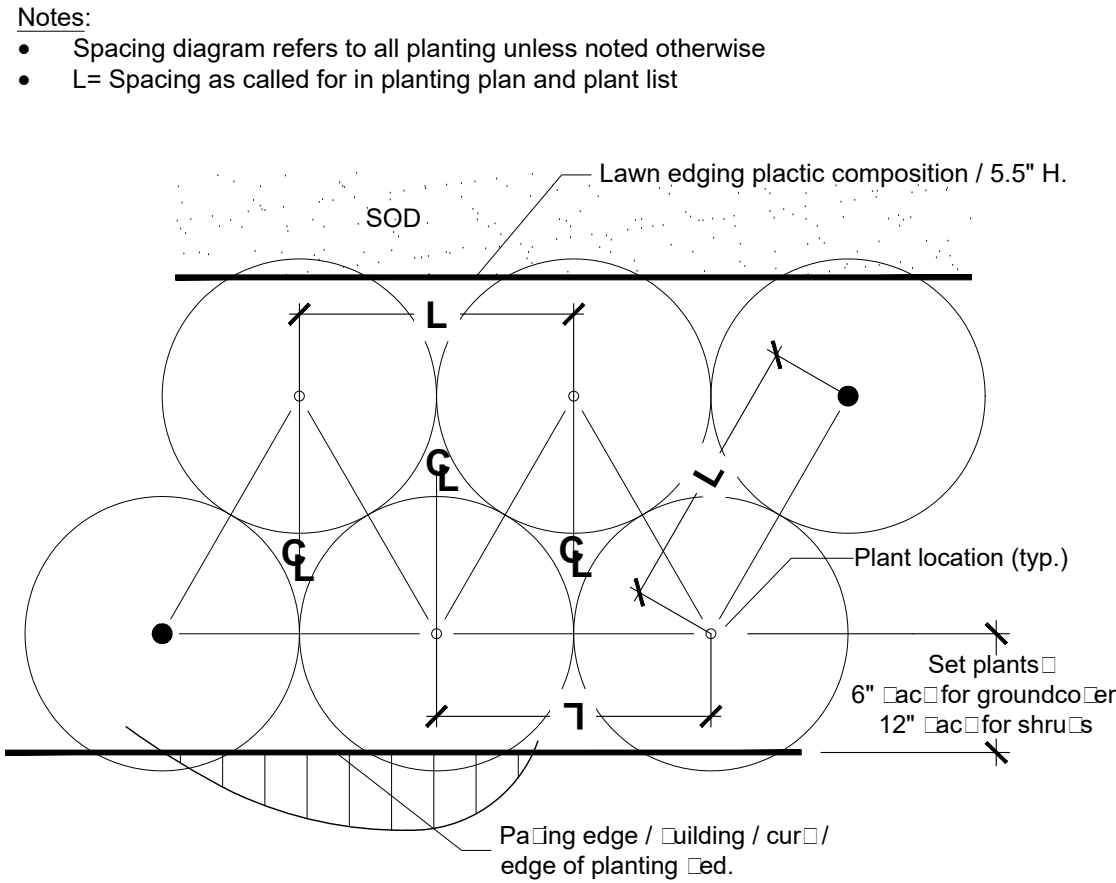
After One Year:

- Continue to monitor trees health and vigor. Inspect for disease and insect problems. Inspect evergreen trees for winter injury and fruit trees for rodent damage.
- Remove tree wrap from thin bark trees in spring.
- Remove stakes from trees planted previous year.
- All plants shall be mulched on a yearly basis or as needed to maintain healthy grown and reduce weed growth.
- Begin corrective pruning trees one year after trees are planted (general rule of thumb is to remove no more than 1/4 of the foliage at one time). All pruning shall be done in accordance with the American National Standards Institute (ANSI) A-300 standards.
- Continue watering trees when needed.
- Replace dead trees as needed, if trees have died in first year notify nursery that planted trees. They should guarantee trees for at least one year.

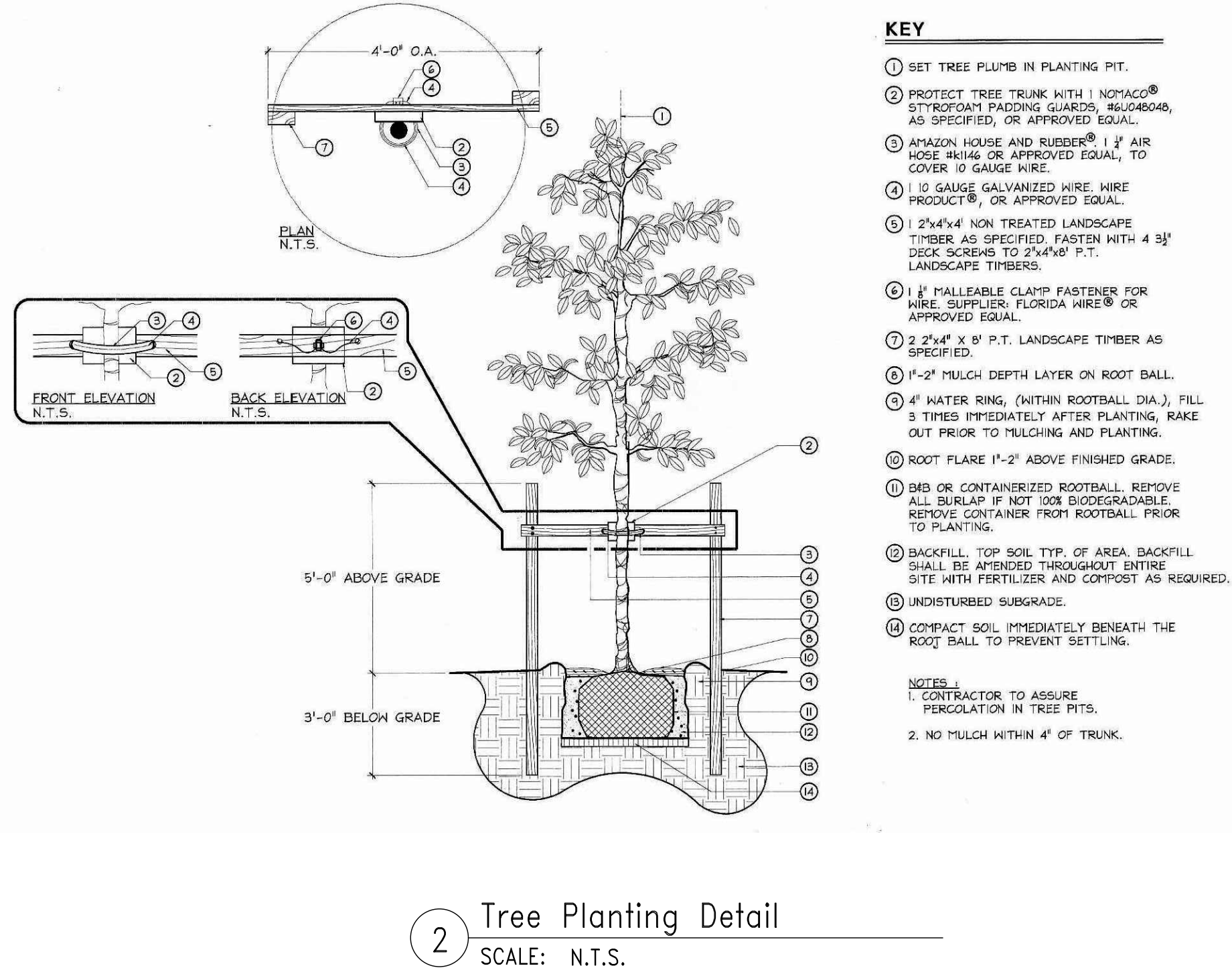
3 One Year - Tree Maintenance Plan
SCALE: N.T.S.



4 Shrubs Planting Detail
SCALE: N.T.S.



5 Shrubs Planting Detail
SCALE: N.T.S.



KEY

- 1 SET TREE PLUMB IN PLANTING PIT.
 - 2 PROTECT TREE TRUNK WITH 1" NOMACO® STYROFOAM PADDING GUARDS, #6104804B, AS SPECIFIED, OR APPROVED EQUAL.
 - 3 AMAZON HOUSE AND RUDDER® 1/2" AIR HOSE RING OR APPROVED EQUAL, TO COVER 10 GAUGE WIRE.
 - 4 10 GAUGE GALVANIZED WIRE, WIRE PRODUCT®, OR APPROVED EQUAL.
 - 5 1 2"x4"x4" NON TREATED LANDSCAPE TIMBER AS SPECIFIED, FASTEN WITH 4 3/4" DECK SCREWS TO 2"x4"x8" P.T. LANDSCAPE TIMBERS.
 - 6 1 1/2" MALLEABLE CLAMP FASTENER FOR WIRE SUPPLIER, FLORIDA WIRE® OR APPROVED EQUAL.
 - 7 2 2"x4" X 8' P.T. LANDSCAPE TIMBER AS SPECIFIED.
 - 8 1'-2" MULCH DEPTH LAYER ON ROOT BALL.
 - 9 4" WATER RING, (WITHIN ROOTBALL DIA.), FILL 3 TIMES IMMEDIATELY AFTER PLANTING, RAKE OUT PRIOR TO MULCHING AND PLANTING.
 - 10 ROOT FLARE 1'-2" ABOVE FINISHED GRADE.
 - 11 BID OR CONTAINERIZED ROOTBALL, REMOVE ALL BURLAP IF NOT 100% BIODEGRADABLE. REMOVE CONTAINER FROM ROOTBALL PRIOR TO PLANTING.
 - 12 BACKFILL TOP SOIL TYP. OF AREA. BACKFILL SHALL BE APPLIED THROUGHOUT ENTIRE SITE WITH FERTILIZER AND COMPOST AS REQUIRED.
 - 13 UNDISTURBED SUBGRADE.
 - 14 COMPACT SOIL IMMEDIATELY BENEATH THE ROOT BALL TO PREVENT SETTLING.
- NOTES:
1. CONTRACTOR TO ASSURE PERCOLATION IN TREE PITS.
2. NO MULCH WITHIN 4" OF TRUNK.

WORK BEING DONE: DRC SITE PLAN SUBMITTAL

Margate Collision Center
5355 NW 24th St.
Margate, FL 33063

REVISION NO.

DATE

COMMENTS

SHEET

PROJ. NO.: 18-010-00
ISSUE DATE: 04-15-19
SCALE: AS NOTED
DRAWN BY: EH
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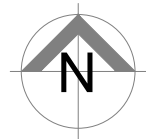
New Site Plan
Collision Center

L102



ALL LANDSCAPE DATA INC.
Landscape (Architecture & Plant Information)
Derick Langel
Doral, FL 33178
(305) 303-7059
www.alllandscape.net & .com

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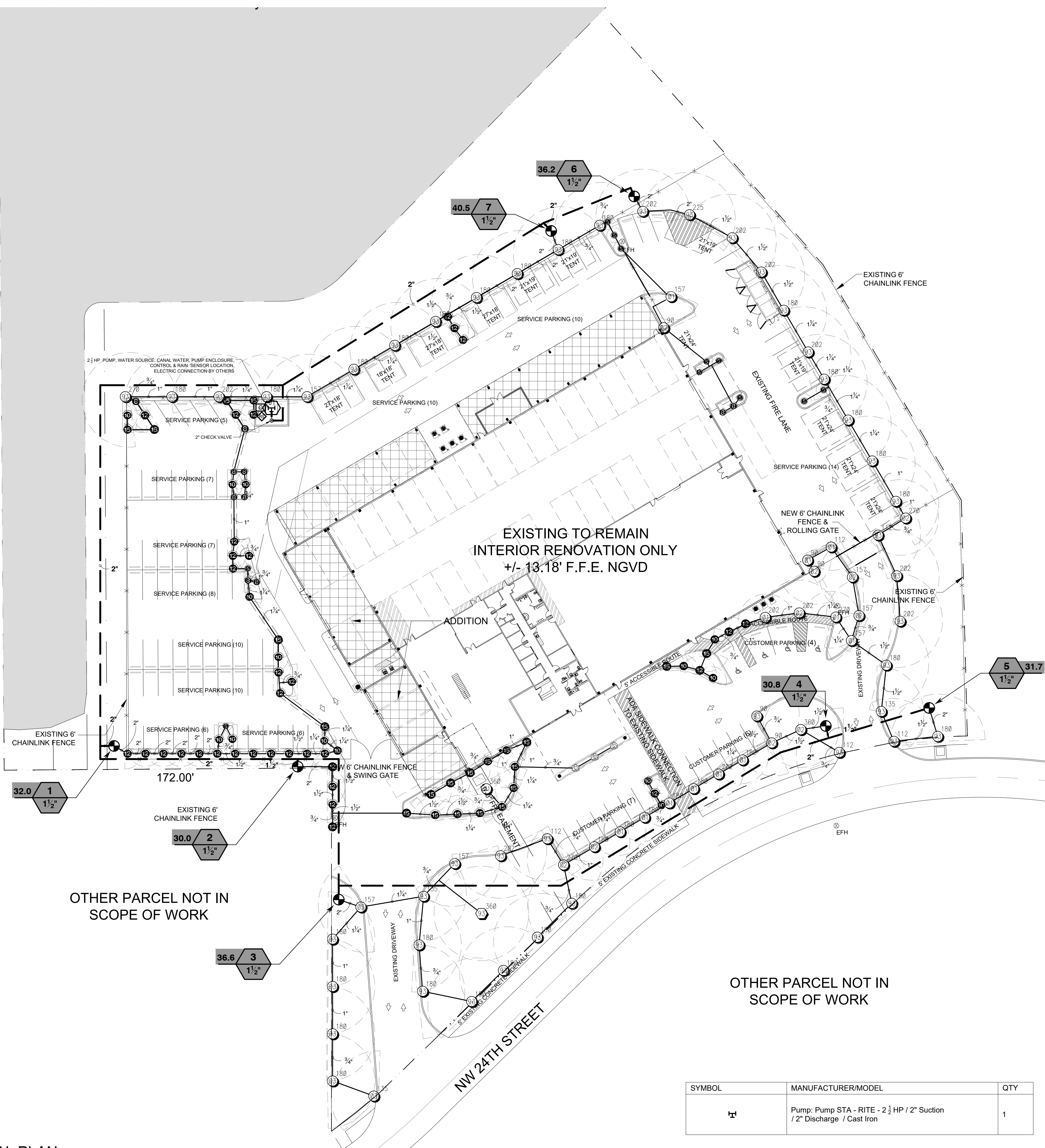


IRRIGATION PLAN

SCALE: 0 32 64 96 feet

1" = 32'

66'1.20'



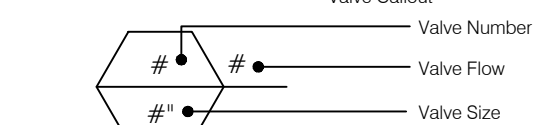
SYMBOL	MANUFACTURER/MODEL	QTY
	Pump: Pump STA - RITE - 2 1/2 HP / 2" Suction / 2" Discharge / Cast Iron	1

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	Toro 570Z-6LP-PC 5 Series Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	11	30	
	Toro 570Z-6LP-PC 8' radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	8	30	
	Toro 570Z-6LP-PC 10' radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	9	30	
	Toro 570Z-6LP-PC 12' radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	28	30	
	Toro 570Z-6LP-PC 15' radius Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	10	30	
	Toro 570Z-6LP-PC ADJ Turf Spray, 6" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	23	30	
	Toro 570Z-12LP-PC Shrub Strip Spray Shrub Spray, 12" Pop-Up, with a Zero Flush Seal. Low Pressure Sealing, allowing for pop-up and retraction at lower pressures. 1/2" Female-Threaded Inlet. Ideal for small to medium landscape areas.	3	30	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS	DETAIL
	Toro 300-00 3.0" turf pop-up multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	13	50	2.16	17'	
	Toro 300-00 3.0" turf pop-up multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	10	50	2.56	22'	
	Toro 300-00 3.0" turf pop-up multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	6	50	3.23	28'	
	Toro 300-00 3.0" turf pop-up multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	3	50	2.42	28'	
	Toro 300-00 3.0" turf pop-up multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	41	50	4.84	28'	
	Toro 300-12 12.0" pop-up shrub multi-stream rotor with nine fixed arcs from 90 to 360. 01, 02, 03 nozzles have radius from 16' to 30', and 63 and 93 nozzles are low flow.	1	50	4.84	28'	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Toro P220-27-0 GLOBE 1-1/2" Electric, 1", 1-1/2", 2" and 3" Plastic In-Line Remote Control Valve. Equipped to withstand pressure up to 220 PSI. Filter screen on 2" and 3" models. Standard Solenoid. Globe Body Style. With EZ Reg Pressure Regulator.	7	
	Hunter PC-0600 Modular Controller, 6 stations, outdoor model, one PCM-300 included. Plastic Cabinet. Residential/Light Commercial Use.	1	
	Hunter WSS Wireless Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket.	1	
	V.I.T. Products PE-40AL Marine grade aluminum pump enclosure. 40"L, 39"H, 38"W. (101.6cm L, 99.06cm H, 96.52cm W).	1	4/1
	Point of Connection 2" Pump	1	
	Irrigation Lateral Line: PVC Schedule 40 3/4"	1,337 l.f.	
	Irrigation Lateral Line: PVC Schedule 40 1"	348.0 l.f.	
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	642.7 l.f.	
	Irrigation Lateral Line: PVC Schedule 40 1 1/2"	449.6 l.f.	
	Irrigation Lateral Line: PVC Schedule 40 2"	233.5 l.f.	
	Irrigation Mainline: PVC Schedule 40 1 1/2"	12.0 l.f.	
	Irrigation Mainline: PVC Schedule 40 2"	1,242 l.f.	
	Pipe Sleeve: PVC Class 200 SDR 21	100.1 l.f.	



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Toro P220-27-0 GLOBE	1-1/2"	Turf Spray	32.02	378.0	37.04	40.29	0.43 in/h
2	Toro P220-27-0 GLOBE	1-1/2"	Turf Spray	30.00	501.0	36.94	40.86	1.09 in/h
3	Toro P220-27-0 GLOBE	1-1/2"	Turf Rotor	36.62	605.7	56.32	63.05	0.71 in/h
4	Toro P220-27-0 GLOBE	1-1/2"	Turf Rotor	30.76	923.4	56.74	64.34	0.87 in/h
5	Toro P220-27-0 GLOBE	1-1/2"	Turf Rotor	31.69	979.1	57.55	65.91	1.08 in/h
6	Toro P220-27-0 GLOBE	1-1/2"	Turf Rotor	36.22	289.6	60.12	63.23	0.84 in/h
7	Toro P220-27-0 GLOBE	1-1/2"	Turf Rotor	40.51	234.1	37.60	40.68	0.70 in/h
	Common Wire				1,254			

ALL LANDSCAPE DATA INC.
Landscape Architecture & Plant Information
4459 NW 37 CT
Doral, FL 33178
(305) 303-7059
www.alllandscape.net & .com



WORK BEING DONE: DRC SITE PLAN SUBMITTAL

REVISION NO.

DATE

COMMENTS

So ARCH
ARCHITECTURE - INTERIORS - PLANNING - SUSTAINABLE DESIGN - VISUALIZATION

Margate Collision Center

5355 NW 24th St.
Margate, FL 33063

PROJ. NO.: 18-010-00
ISSUE DATE: 04-15-19
SCALE: AS NOTED
DRAWN BY: EH
CHECKED BY: DC

SHEET

Irrigation Plan

L 200

DULCE M. CONCEJA ARCHITECT A00016803
PRIMITIVO E. CONCEJA ARCHITECT A00014468
6780 SW 60TH STREET MIAMI FL 33143
P-305 340 0723 F-305 740 0716

GENERAL
IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, CONTRACT SPECIFICATIONS, AND APPENDIX "F" OF THE FLORIDA BUILDING CODE.

IRRIGATION DESIGN BASED ON "PLANTING PLAN". CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS PLAN SHALL BE USED AS A GUIDE ONLY. IRRIGATION SHALL BE INSTALLED TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS.

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING TORO SPRINKLERS, IN-LINE VALVES AND CONTROL SYSTEM. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE WATER.

IRRIGATION SHALL BE INSTALLED AND MAINTAINED TO MINIMIZE UNDESIRABLE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS.

CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH SITE CONDITIONS, AND SHALL REFER TO THE PLANS FOR ADDITIONAL INFORMATION.

TO ENSURE PROPER OPERATION, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, AND SPRINKLER, PIPE AND WIRE SIZES, AND INSTALLATION NOTES AND DETAILS SHALL BE FOLLOWED AS SHOWN.

CONTRACTOR IS TO PROVIDE AN AS-BUILT DRAWING OF THE IRRIGATION SYSTEM TO THE OWNER AND LANDSCAPE ARCHITECT.

PIPING
PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, SECTION "F" OF THE FLORIDA BUILDING CODE, AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL BE: (1) BURIED TO A MINIMUM DEPTH OF 24", (2) TWO PIPE SIZES LARGER THAN CARRIER PIPE, AND (3) EXTENDED 3' BEYOND HARDSCAPED AREA ON EACH END. CONTRACTOR SHALL REFER TO LOCATION OF EXISTING SLEEVES.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

A GATE VALVE SHALL BE INSTALLED FOR ISOLATION. THIS VALVE SHALL BE TO LINE SIZE AND INSTALLED IN A VALVE BOX. POROUS MATERIAL SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

SPRINKLERS
SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, FENCES, SITE LIGHTING, PREVAILING WIND, MOUNDING, ETC., TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. A PRIME OBJECTIVE SHALL BE TO ELIMINATE OVERTHROW ONTO PAVEMENT, SIDEWALKS, AND THE RESIDENCE.

POP-UP TYPE LOCATED IN SOD, MULCH, AND GROUND COVERS SHALL BE INSTALLED ON FLEXIBLE SWING JOINTS CONSISTING OF THICKWALLED POLY PIPE AND 1/2" INSERT ELBOWS.

EACH SPRINKLER SHALL BE EQUIPPED WITH THE APPROPRIATE PRECISION SPRAY NOZZLE AND SHALL HAVE THE X-FLOW FEATURE.

ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. LOW ANGLE, FLAT SPRAY, AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO MINIMIZE OVERTHROW.

SPRINKLERS LOCATED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED AWAY FROM HARDSCAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANCE OF DAMAGE BY VEHICLES, PEDESTRIANS, AND LAWN MAINTENANCE PERSONNEL. AS A GENERAL RULE, 6" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 4", SHRUB HEADS AND 12" POP-UP SPRAY HEADS SHALL BE INSTALLED IN 12".

CONTROL SYSTEM
CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 110 VAC ELECTRIC SOURCE IS REQUIRED.

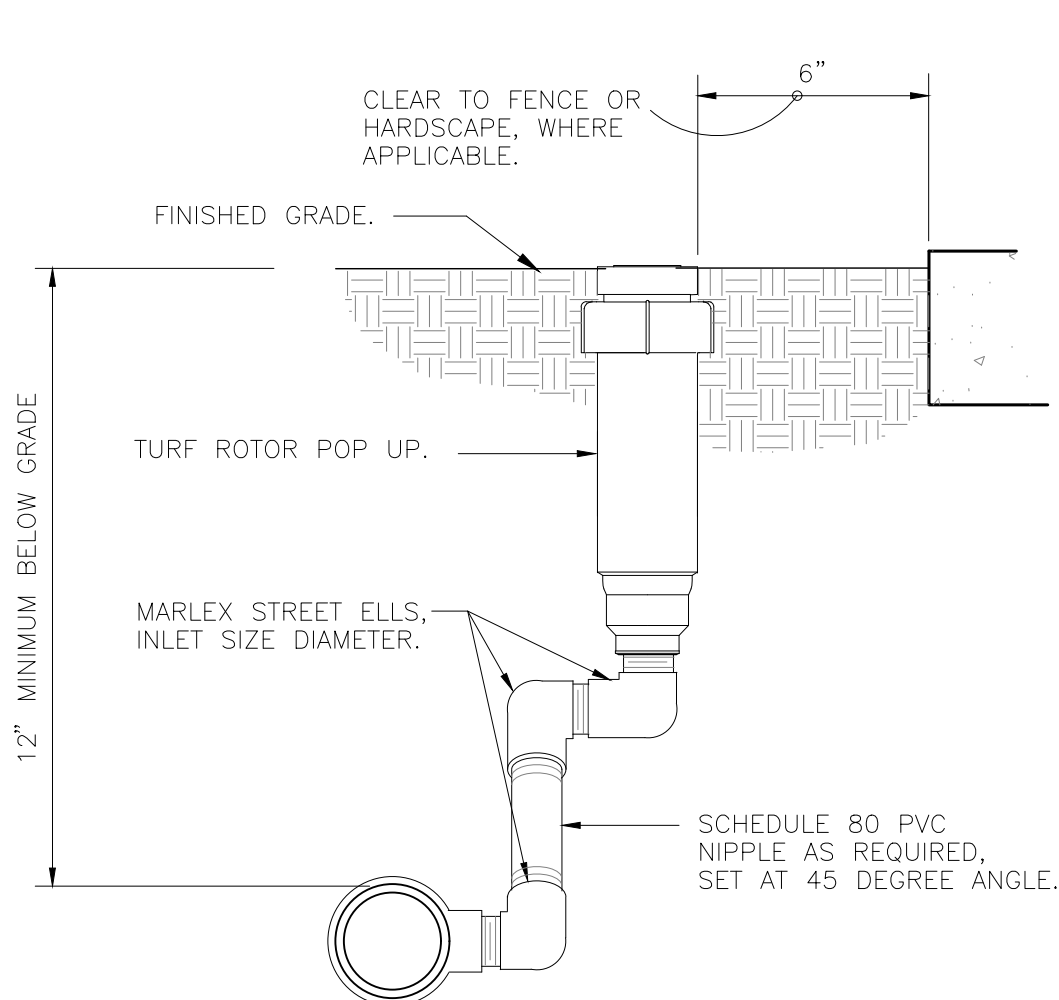
CONTROL LINES FROM AUTOMATIC CONTROLLER TO IN-LINE AUTOMATIC VALVES SHALL BE #14 AWG DIRECT BURIAL UF TYPE WHICH SHALL BE: (1) INSTALLED IN ACCORDANCE WITH LOCAL CODES, (2) INSTALLED IN SCH 40 PVC WIRE CONDUIT, (3) BURIED TO A MINIMUM DEPTH OF 15", (4) COLORED CODED TO FACILITATE TROUBLESHOOTING, AND (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM THE CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

AN INDIVIDUAL CONTROL WIRE SHALL BE ROUTED TO EACH VALVE AND VALVES WHICH OPERATE SIMULTANEOUSLY SHALL BE TEED TOGETHER AT THE CONTROLLER.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

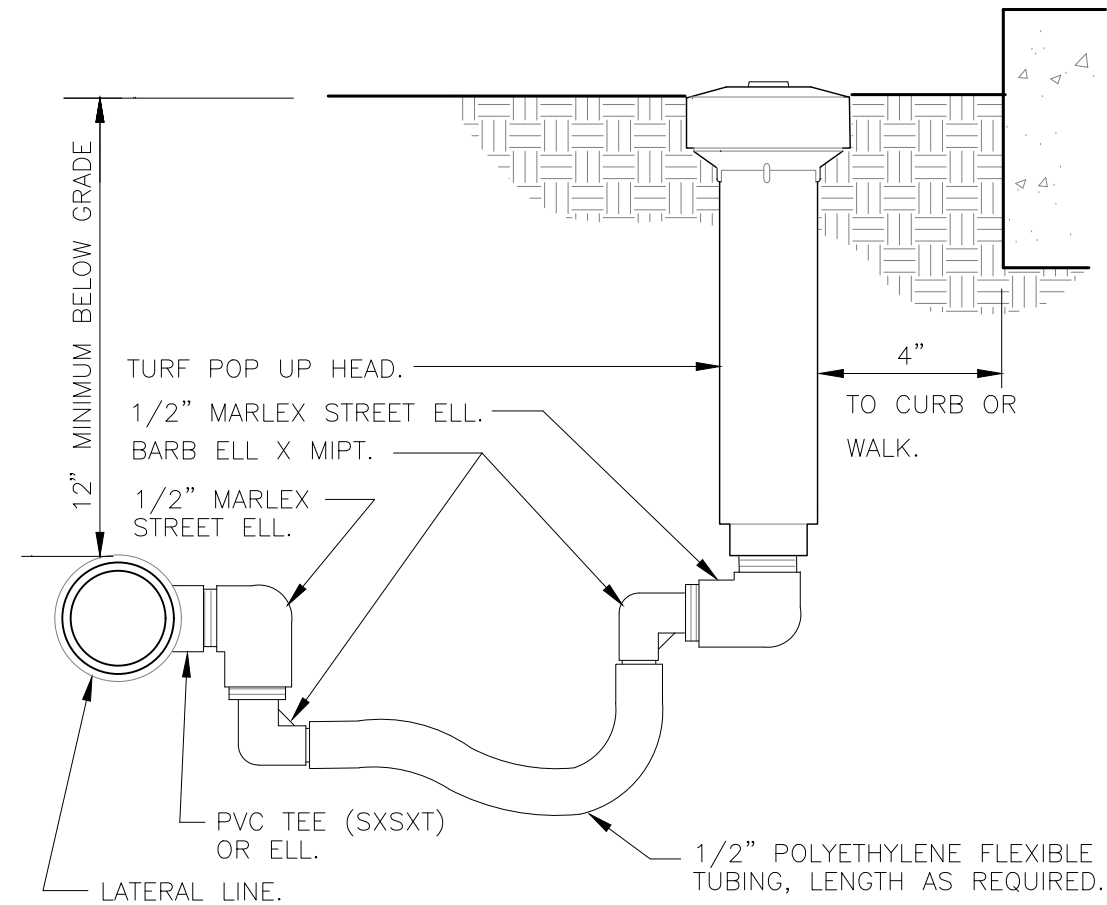
THE RAIN SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

TIMING AND PRECIPITATION
TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.0 INCHES/WEEK.



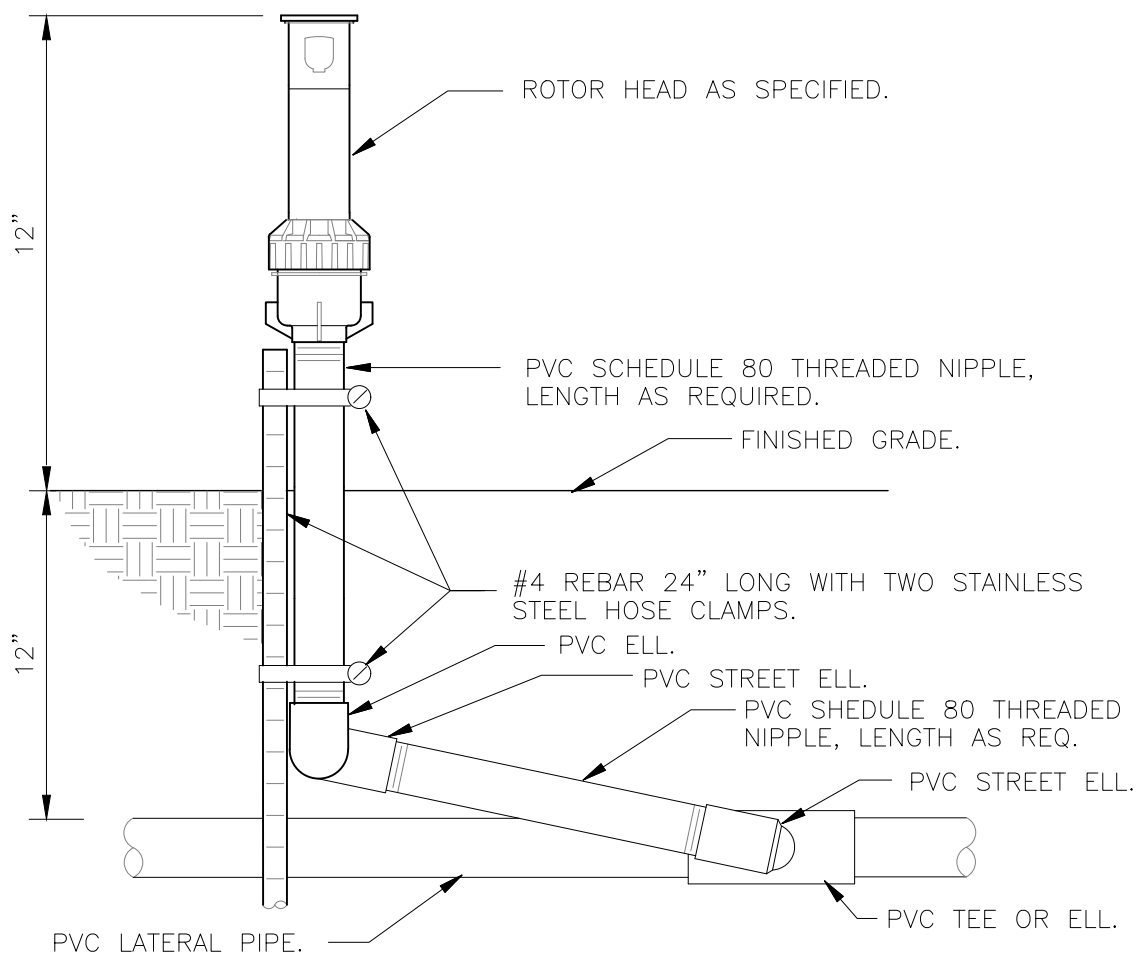
1 TURN ROTOR MARLEX ASSEMBLY

3" = 1'-0" 328409.16-03



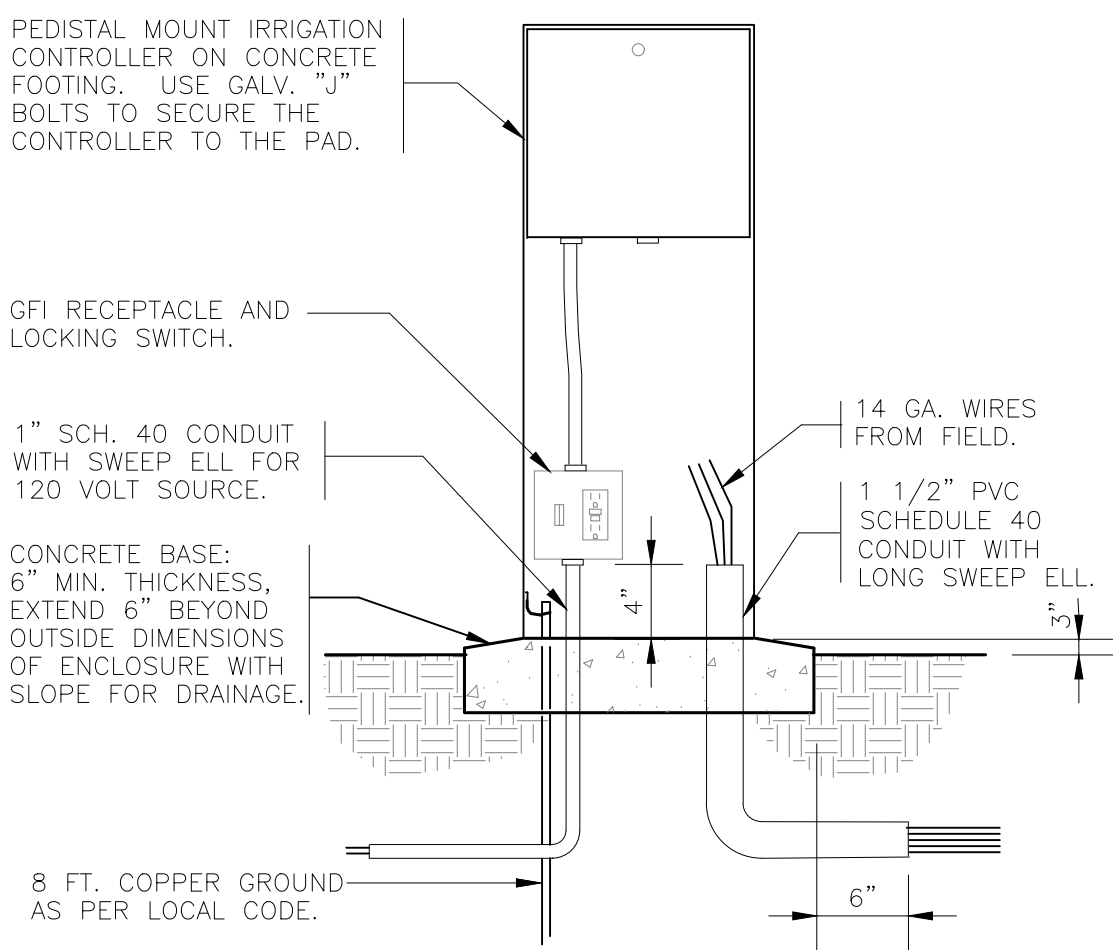
2 TURF SPRAY FLEX ASSEMBLY

3" = 1'-0" 328403.13-02



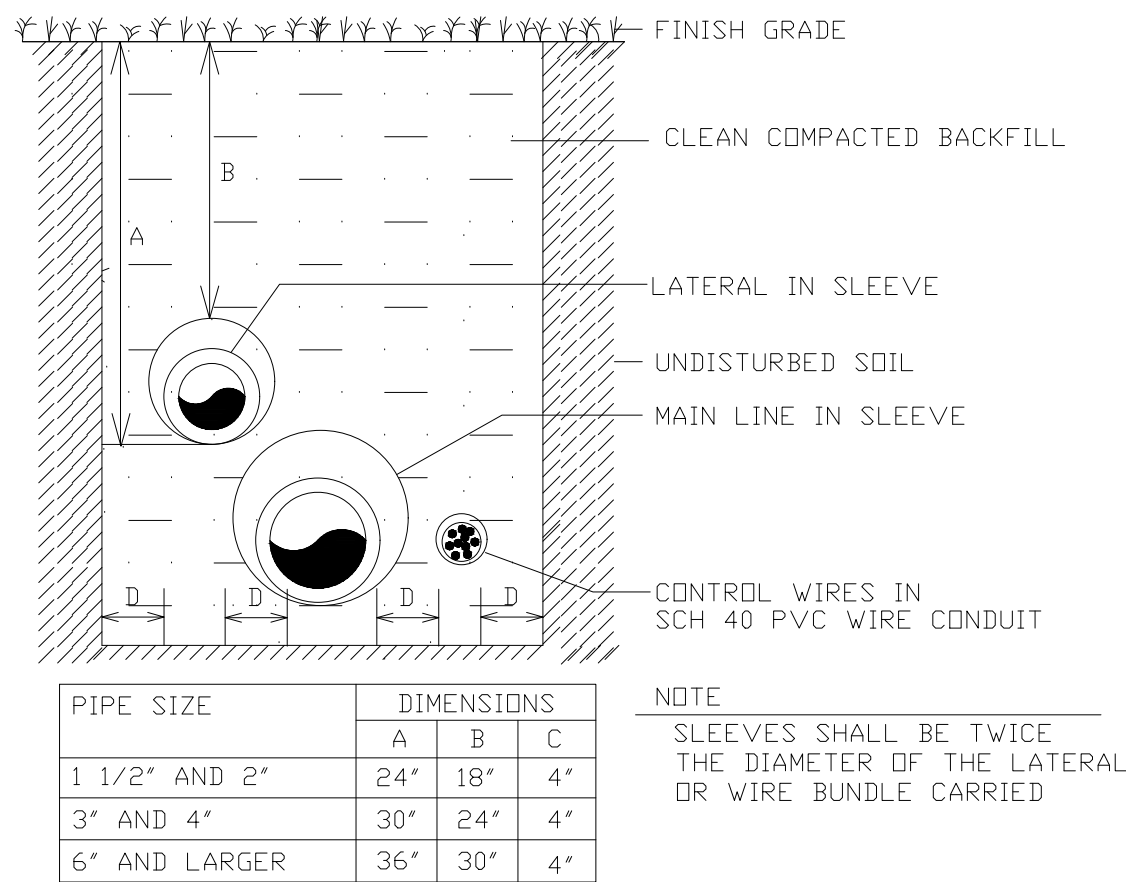
3 SHRUB ROTOR ON FIXED RISER

3" = 1'-0" 328409.16-03



4 PEDESTAL MOUNT CONTROLLER

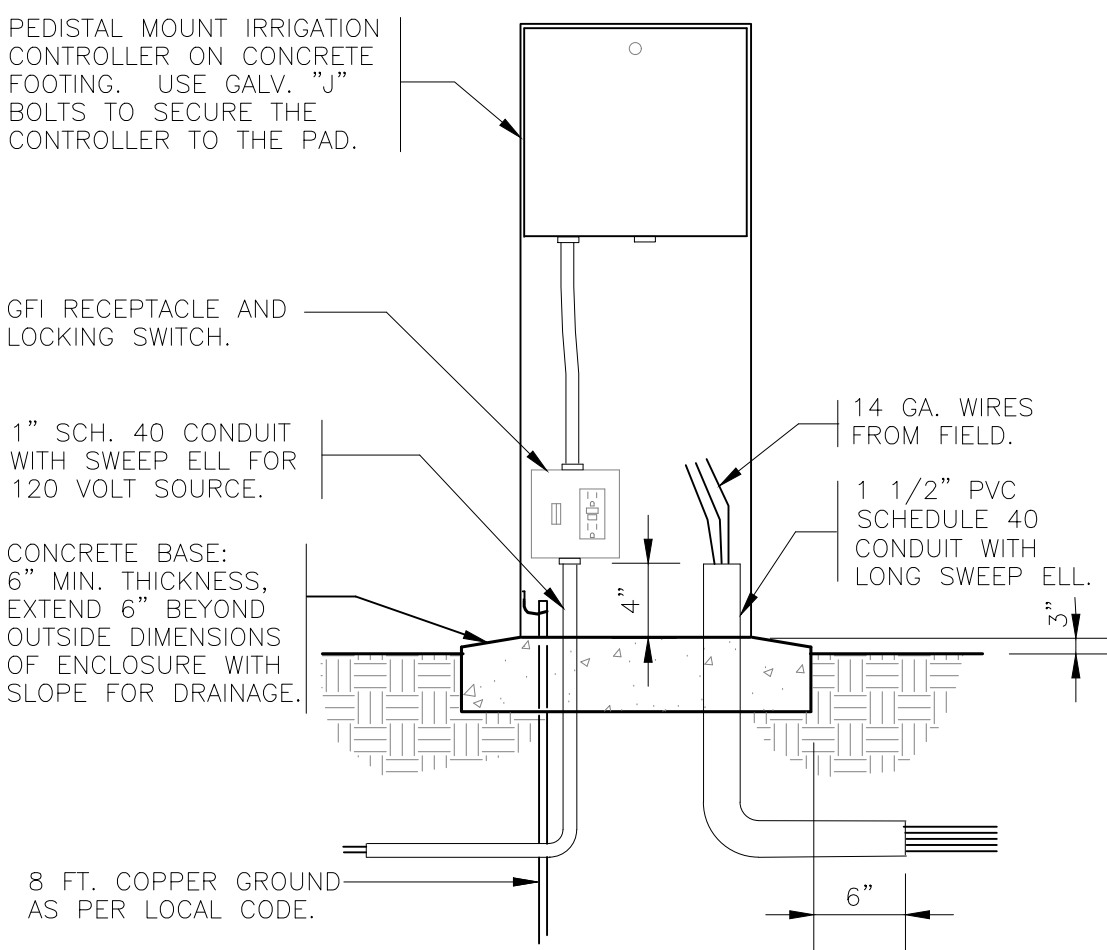
1" = 1'-0" 328409.16-03



TRENCHING DETAIL (NTS) VEHICULAR TRAFFIC AREAS

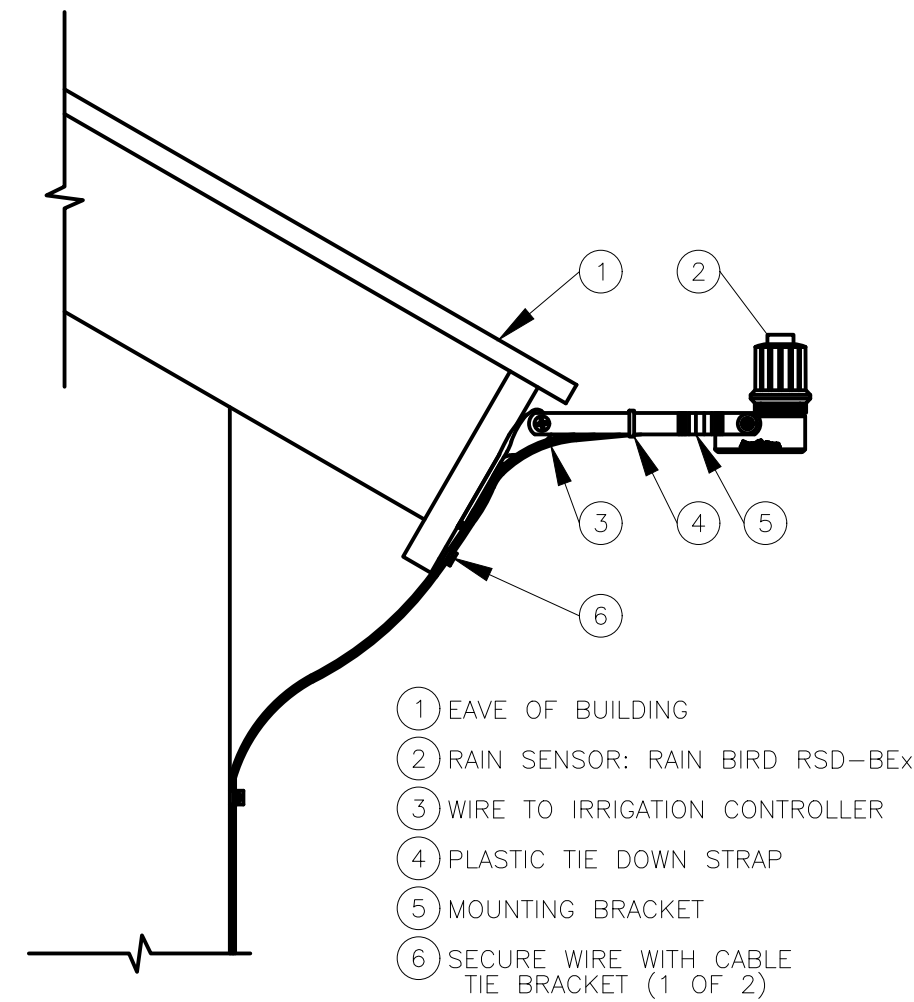
5 TRENCHING DETAILS / VEHICULAR TRAFFIC AREAS

NTS 9



6 PEDESTAL MOUNT CONTROLLER










1" = 1'-0" 328409.16-03



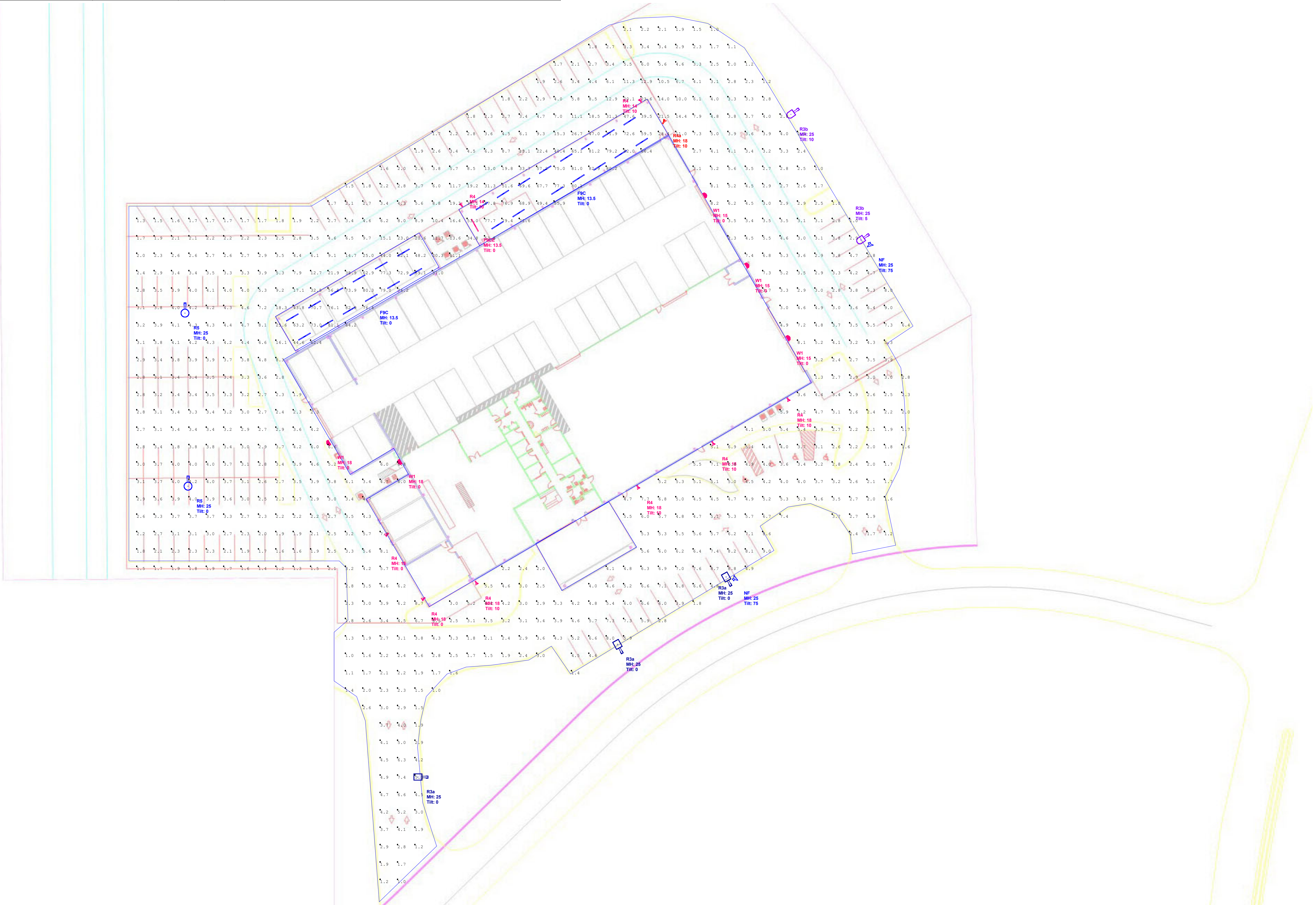
7 RAIN SENSOR

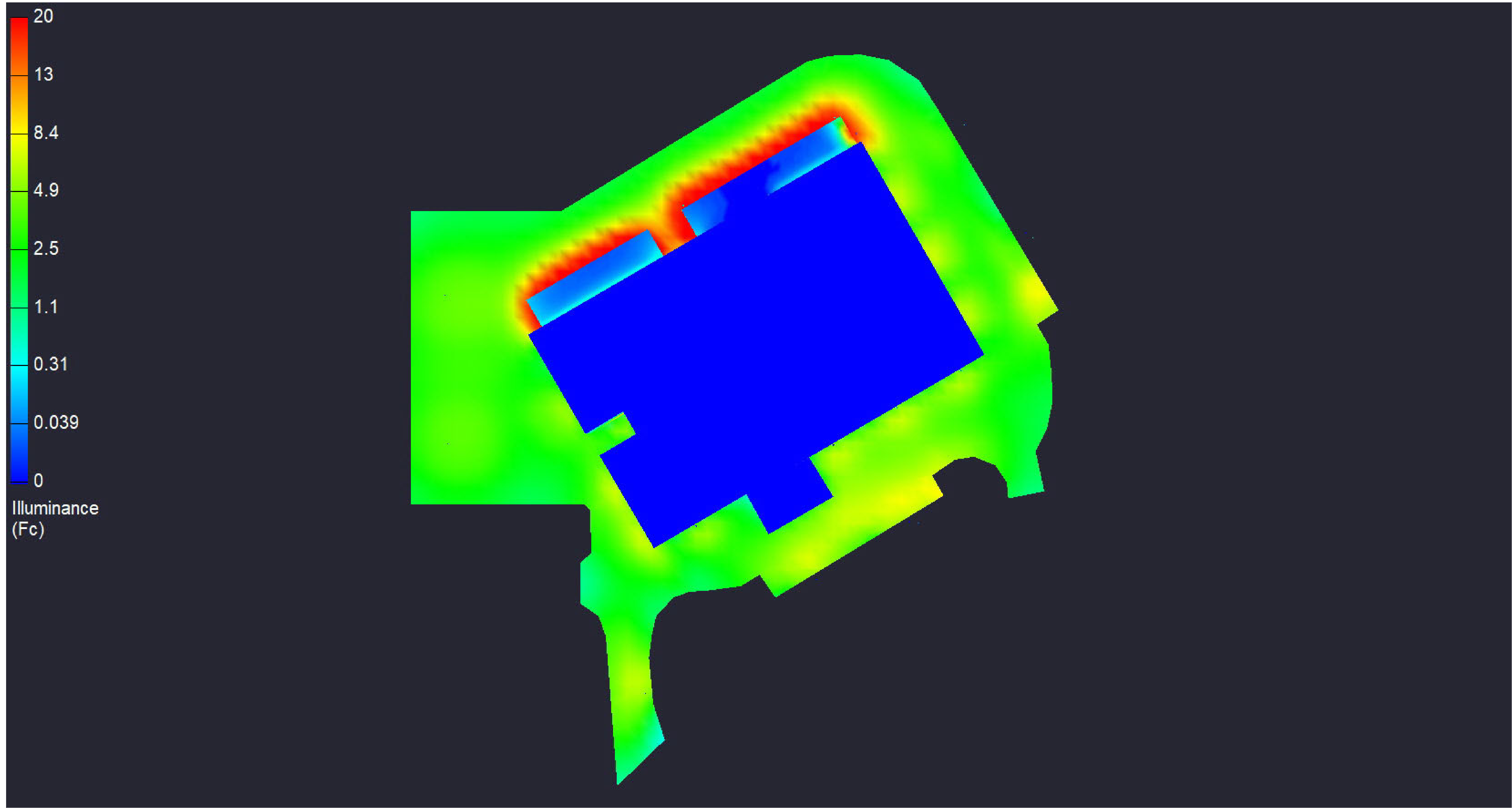
N.T.S. DETAIL-FILE



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lum. Watts	LLF	Description
	1	R4a	SINGLE	114.071	1.000	RSX2 LED P2 50K R4
	1	F9CE	SINGLE	146.83	1.000	CLX L96 20000LM SEF WDL MVOLT GZ10 50K 80CRI w/E
	8	R4	SINGLE	72.0642	1.000	RSX2 LED P1 50K R4
	2	NF	SINGLE	246.6347	1.000	RSXF2 LED P6 50K NFL
	2	R5	SINGLE	311.9213	1.000	RSX3 LED P4 50K R5
	5	W1	SINGLE	49	1.000	KAXW LED P2 50K R4 MVOLT
	3	R3a	SINGLE	246.6347	1.000	RSX2 LED P6 50K R3 HS
	27	F9C	SINGLE	146.83	1.000	CLX L96 20000LM SEF WDL MVOLT GZ10 50K 80CRI
	2	R3b	SINGLE	114.071	1.000	RSX2 LED P2 50K R3 HS

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Paved Area	Fc	9.00	82.9	1.0	9.00	82.90









EROSION CONTROL NOTES:

1. THE EROSION CONTROL DEVICES SHOWN ON THE PLANS REPRESENT BEST MANAGEMENT PRACTICES FOR PREVENTING EROSION; HOWEVER, ADDITIONAL MEASURES MAY BECOME NECESSARY OR MAY BE REQUIRED BY OTHER ENGINEERS, INSPECTORS, OR AGENCIES WHICH HAVE JURISDICTION OVER THIS PROJECT.
2. IN AREAS WHERE LAND-DISTURBING ACTIVITIES ARE PROPOSED DIRECTLY ADJACENT TO DESIGNATED PRESERVE AREAS, CANALS, OR OTHER WATER BODIES, A DOUBLE-ROW OF SILT FENCE SHALL BE INSTALLED ALONG THE EDGE OF THE PROPOSED DISTURBED AREA.
3. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MAINTENANCE WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO: CLEANING, REPAIR, AND / OR RE-INSTALLATION OF EROSION CONTROL MEASURES AS WELL AS THE INSTALLATION OF ADDITIONAL DEVICES IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
4. ANY EXPOSED AREA WHICH REMAINS UNDISTURBED FOR MORE THAN 15 DAYS SHALL BE STABILIZED WITH SOD, GEOTEXTILE FABRICS, OR SEED AND STRAW.
5. APPROVAL OF THIS PLAN IS NOT NECESSARILY AUTHORIZATION TO COMMENCE ANY LAND-DISTURBING ACTIVITIES.
6. THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS HAVE BEEN ISSUED FOR THIS PROJECT PRIOR TO BEGINNING CONSTRUCTION.
7. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE AROUND THE PERIMETER OF ALL EARTH DISTURBANCES. THE SILT FENCE SHALL BE INSPECTED AND REPAIRED FOLLOWING EVERY RAINFALL EVENT.
8. THE CONTRACTOR SHALL SEED AND MULCH OR SOD DISTURBED AND/OR BARE SOIL IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.
9. THE CONTRACTOR SHALL PROVIDE SILTATION REDUCTION DEVICES FOR THE DISCHARGE FROM ANY DETERIORATING PROCESS SO THAT DIRECT DISCHARGE DOES NOT OCCUR.
10. THE CONTRACTOR SHALL CHECK ALL EROSION AND SILTATION CONTROL DEVICES AFTER EACH RAINFALL AND REPAIR OR REPLACE THEM AS REQUIRED. SILT FENCES SHALL REMAIN IN PLACE UNTIL PERMANENT STABILIZATION OF DISTURBED AREAS IS COMPLETED.
11. THE CONTRACTOR SHALL PROVIDE TURBIDITY BARRIERS IN ALL DITCHES AND ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
12. THE REQUIREMENTS LISTED ABOVE SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND THE CONTRACTOR SHALL USE WHATEVER METHODS HE DEEMS NECESSARY TO PREVENT EROSION AND SILTATION AS MAY BE REQUIRED FOR THE PROJECT, AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.
13. THE CONTRACTOR SHALL CONTROL ALL DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS APPROVED BY THE OWNER.
14. ALL PRACTICABLE AND NECESSARY EFFORT, INCLUDING BUT NOT LIMITED TO THE USE OF STAKED HAY BALES OR STAKED SILT SCREEN BARRIERS, SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIALS TO SURFACE WATER CONVEYANCE DITCHES, INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED TO MITIGATE EROSION OR SEDIMENTATION EFFECTS OCCURRING DURING HIS WORK.
15. TEMPORARY SILTATION CONTROL BARRIERS (E.G. SILT FENCE) SHALL BE INSTALLED WHERE EARTH DISTURBANCES ARE WITHIN 100 FEET OF SURFACE WATER CONVEYANCE SYSTEMS (DITCHES) AND WETLANDS.
16. IT IS RECOMMENDED THAT THE CONTRACTOR MARK OUT THE LANDWARD SIDE OF WETLAND/BUFFERS TO PREVENT UNINTENTIONAL WETLAND BUFFER IMPACTS DURING CONSTRUCTION.
16. IT IS RECOMMENDED THAT STRAW BALES OR SILT FENCES BE USE IN AREAS OF DRY SURFACES IN ORDER TO PROTECT DISCHARGE.
17. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES AND DEVICES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND /OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKDAY.
18. EROSION CONTROL DEVICES SHALL FOLLOW STANDARDS AND DETAILS IN INDEX 102,103,104 OF THE (FDOT ROADWAY AND TRAFFIC CONTROL STANDARDS). CONTROL DEVICES AND TECHNIQUES, AS PROVIDED IN THE FLORIDA STORMWATER EROSION, AND SEDIMENTATION CONTROL MANUAL SHALL BE IMPLEMENTED TO COMPLY WITH CURRENT STATE REGULATIONS.

GENERAL NOTES:

1. THIS PLAN IS NOT A SURVEY AND SHALL NOT BE USED FOR PLATTING, REPLATTING, OR ESTABLISHMENT OF LEGAL BOUNDARIES.
2. SITE PLAN PROVIDED BY SOL-ARCH, INC.
3. BOUNDARY AND TOPOGRAPHIC INFORMATION BASED UPON SURVEY PROVIDED BY HITT LAND SURVEYORS, INC.
4. LOCATIONS OF ABOVE-GROUND STRUCTURES AND UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF WORK.
5. THIS PLAN IS A GRAPHICAL REPRESENTATION AND IS SUBJECT TO DISTORTION UPON PRINTING, COPYING, AND REPRODUCTION. THEREFORE, DISTANCES SHOULD NOT BE SCALED OFF THIS PLAN. WHEN PROVIDED, DIMENSIONS AND LABELS OFFER A MORE ACCURATE REPRESENTATION OF SIZE AND DISTANCE.
6. FOR EXACT LOCATIONS, DIMENSIONS, ELEVATIONS, AND ESTABLISHMENT OF LEGAL PROPERTY BOUNDARIES, A SURVEYOR REGISTERED IN THE STATE OF FLORIDA MUST BE CONSULTED.
7. ADDITIONAL ITEMS MAY EXIST WHICH ARE NOT SHOWN ON THIS PLAN. PRIOR TO ANY DISTURBANCE ACTIVITY, THE CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE CALL AT (800) 432-4770 TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES.
8. THE ENGINEER OF RECORD SHALL BE NOTIFIED, IMMEDIATELY, IF ADDITIONAL ITEMS ARE LOCATED WHICH DO NOT APPEAR ON THIS PLAN. ALSO, THE ENGINEER OF RECORD SHALL BE NOTIFIED, IMMEDIATELY, IF ITEMS SHOWN ON THIS PLAN ARE FOUND TO BE OF A DIFFERENT SIZE OR IN A DIFFERENT LOCATION IN THE FIELD.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ITEMS DAMAGED DURING CONSTRUCTION. THIS INCLUDES, BUT MAY NOT BE LIMITED TO: UTILITIES, STRUCTURES, LANDSCAPING, FENCES, PAVEMENT, AND CONCRETE.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REPAIRS BACK TO EXISTING CONDITION AFTER WORK HAS BEEN COMPLETED ASSOCIATED WITH CIVIL WORK BOTH ON-SITE AND INSIDE THE BUILDING.

"AS-BUILT" REQUIREMENTS:

THE ENGINEER OF RECORD (EOR) WILL REQUIRE THE FOLLOWING INFORMATION FROM THE CONTRACTOR FOR THE CIVIL COMPONENTS DURING THE CONSTRUCTION OF THE PROJECT FOR FINAL APPROVAL OF THE SYSTEMS:

1. DRAINAGE SYSTEM INSTALLATION SURVEYS -- SURVEY SHALL BE CONDUCTED A MINIMUM OF 72 HRS PRIOR TO INSTALLATION OF COVER IN ORDER TO ADDRESS ANY POTENTIAL ADJUSTMENTS.
 - A. CONTRACTOR SHALL FURNISH EOR WITH SURVEY FOR REVIEW AND COMMENT.
 - I. IF COMMENTS ARE PROVIDED, CONTRACTOR SHALL PROVIDE RESPONSE OR MAKE ADJUSTMENTS AS REQUIRED PRIOR TO INSTALLATION OF COVER.
 - II. IF NO COMMENTS ARE PROVIDED, CONTRACTOR SHALL MOVE FORWARD AS PER THE CONSTRUCTION DOCUMENTS
2. NOTIFICATION/SCHEDULE AND CONTACT INFORMATION OF AGENCY INSPECTORS THAT INSPECT SITE CIVIL COMPONENTS, WITHIN 24 HOURS PRIOR TO THEIR VISIT ; IN ADDITION, A COPY OF THEIR INSPECTION COMMENTS/APPROVAL.
3. FINAL AS-BUILT TOPOGRAPHIC SURVEY
UNLESS OTHERWISE DIRECTED BY THE OWNER, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE CONSULTANT FOR QUALITY CONTROL VERIFICATION:
 - A. IN-PLACE FIELD DENSITY (PER ASTM D-2922 FOR EVERY 2,500 SF PER EACH LIFT OF MATERIAL PLACED AND COMPACTED), MODIFIED PROCTOR TESTS (PER ASTM D-1557) AND MONITORING TEST RESULTS, FOR
 - UTILITY BEDDING AND COVER
 - SITE FILL
 - PARKING AND ACCESS ROAD LOT FILL
 - PARKING LOT AND ACCESS ROAD BASE
 5. EROSION AND SEDIMENTATION CONTROL SWPPP INSPECTION CONTROL FORM FOR WEEKLY INSPECTIONS OR AFTER A 1/2" OR GREATER STORM EVENT. THE CONTRACTOR OR INSPECTOR MUST PROVIDE THESE TO THE CONSULTANT ON A WEEKLY BASIS THROUGHOUT CONSTRUCTION

PROPOSED 87' LONG 1' WIDE GRATE LATEST FDOT INDEX 206 TYPE 2 TRENCH DRAIN TO UNITE WITH EXISTING TRENCH DRAIN.
RIM +12.56
BOTTOM +12.29 (EAST)
BOTTOM +11.15 (WEST)

PROPOSED CANOPY
(SEE ARCHITECT PLANS)

ROOF DRAINAGE GUTTERS TO BE RELOCATED AND SHALL NOT BE CONNECTED TO TRENCH DRAIN (SEE ARCHITECT'S PLAN)

PROPOSED CANOPY
(SEE ARCHITECT PLANS)

PROPOSED 100' LONG 1' WIDE GRATE LATEST FDOT INDEX 206 TYPE 2 TRENCH DRAIN
RIM +12.50
BOTTOM +11.65 (WEST)
BOTTOM +11.15 (EAST)

PROPOSED 121' 8" DIA. DIP WATERMAIN W/ 2-45° BENDS, RESTRAINED

PROPOSED 10' WATERMAIN/UTILITY EASEMENT FROM PROPERTY LINE TO PROPERTY LINE.

PROPOSED PARKING STRIPING
(SEE ARCHITECT PLANS)

PROPOSED FIRE LANE STRIPING
(SEE ARCHITECT PLANS)

EXISTING GATE
(SEE ARCHITECT PLANS)

PROPOSED JUNCTION BOX
RIM +12.60 (FLUSH)
INV. +11.00
PROPOSED 30LF 4" DIA. SCH 80 PVC
PROPOSED 20LF 4" DIA. SCH 80 PVC

PROPOSED JUNCTION BOX
RIM +13.00 (FLUSH)
INV. +10.91

ONE STORY BUILDING COLLISION CENTER #5355
FINISH FLOOR = +13.18' NAVD
29 EXISTING REPAIR BAYS (INSIDE BUILDING)
20 NEW CARWASH BAYS (16 UNDER CANOPY)



PROPOSED EXTERIOR CAR WASH UTILITY DEMAND RATES:

PROPOSED USE: HAND CAR WASH:
49 BAYS (29 INTERIOR EXISTING, 4 INTERIOR PROPOSED, 16 EXTERIOR PROPOSED) + 2,642 SF OF BUILDING ADDITION (MOTOR VEHICLE SERVICE STATION)
DESIGN CONSTRAINT 1: DEMAND RATE
TYPE OF USE CATEGORY SELECTED:
HAND CAR WASH AT 350 GPD/UNIT X 49+ BAYS(UNITS) = 17,150 GPD
+ 2,642 SF AT 10 GPD/100 SF = 264.2 GPD
TOTAL DEMAND RATE = 17,414.2 GPD
FLOW PERIOD REQUESTED: GALLONS PER MINUTE (GPM)
CONVERSION FACTOR: GALLONS PER MINUTE = 17,414.2 GPD X 1 DAY/24 HOURS X 1 HOUR/60 MINUTES
NET DEMAND: 12.09 GPM
PROPOSED OIL/WATER SEPARATOR MAX DESIGN LIMIT: 100 GPM

DESIGN CONSTRAINT 2: TANK SIZE (GALLONS)

DRAINAGE AREA:
49 CAR BAYS: AREA = 9' WIDE X 18' LONG X 49 = 7,938 SF
+ BUILDING ADDITION OF 2,642 = 10,580
VOLUME CAPACITY:
-1ST 100 SF REQUIRES 6 CF
-2ND EVERY ADDITIONAL 800 SF REQUIRE 8 CF OF VOLUME
10,580 SF - 100 SF = 10,480 SF/800 CF = 13.1
13.1 X 8 CF = 104.8 CF
TOTAL VOLUME = 104.8 CF + 6 CF = 110.8 CF
MIN. TANK VOLUME: 110.8 CF (7.48052 GAL/CF) = 828.84 GAL
PROPOSED OIL/WATER SEPARATOR TANK SIZE: 1,000 GAL

TYPES OF CAR WASH ACTIVITIES

PROPOSED USE: HAND CAR WASH:

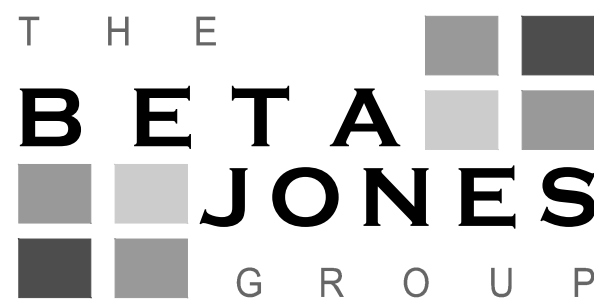
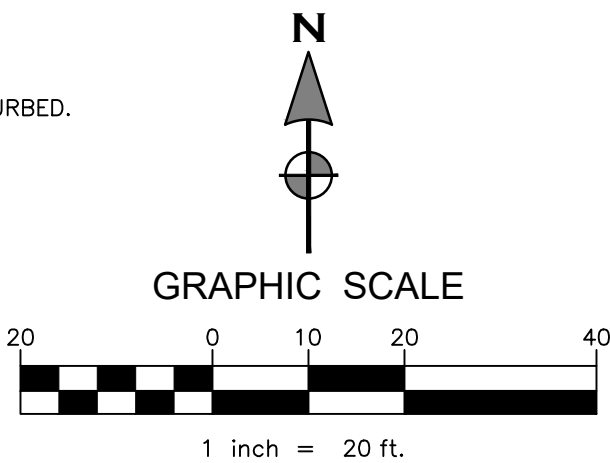
EXTERIOR CAR WASH ACTIVITIES INCLUDING THE USE OF THE FOLLOWING PRODUCTS:

1. GLASS CLEANER
2. WAX/FORTIFIED SPRAY POLISH
3. WIRE WHEEL CLEANER
4. CAR WASH SOAP
5. "MEGA TUFF" DEGREASER
6. BAKING CREME DRESSING (WATER BASE)
7. CAR WAX
8. FINISH LEVELING WAX
9. VIBRANT CUT 1500 COMPOUND

NOTE: OIL / WATER SEPARATOR HAS POLYETHYLENE MEDIA INSTALLED TO TREAT DEGREASER, FOR PROPER SEPARATION IN SEPARATOR. SEE PROVIDED DETAILS AND SPECIFICATIONS.

CONSTRUCTION SEQUENCE NOTES:

1. DISTURB ONLY THE AREAS NECESSARY FOR THE PROPER INSTALLATION OF THE EROSION CONTROL MEASURES.
2. INSTALL ALL REQUIRED EROSION CONTROL MEASURES.
3. INSTALL BARRICADES, FENCES, OR OTHER ADEQUATE SHIELDS AROUND AREAS WHICH ARE PROPOSED TO REMAIN UNDISTURBED.
4. CLEAR, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF ITEMS AS INDICATED IN THE PLANS.
5. INSTALL AND CONSTRUCT IMPROVEMENTS AS INDICATED IN THE PLANS WHILE MAINTAINING EROSION CONTROL MEASURES.
6. PERMANENTLY STABILIZE DISTURBED AREAS AS INDICATED IN THE PLANS UPON COMPLETION OF CONSTRUCTION ACTIVITY.
7. REMOVE EROSION CONTROL MEASURES IN AREAS WHICH HAVE BEEN PERMANENTLY STABILIZED AS SHOWN IN THE PLANS.



A CIVIL ENGINEERING FIRM
EXPEDITING DEVELOPMENT

801 Brickell Avenue
Suite 900
Miami, Florida 33131

PH: 786.284.8828
FAX: 866.312.8730

FLORIDA CERTIFICATE OF AUTHORIZATION # 27431

PROJECT NUMBER: 18109

DRAWN BY: EAG DESIGN BY: EAG CHECK BY: LAB

ORIGINAL DRAWING DATE: 12/04/2018

REVISIONS:

NO.	CITY	DRC COMMENTS	LAB	DATE
1				5/24/19
2				
3				
4				
5				
6				
7				
8				
9				
10				

PROJECT NAME:

MARGATE
COLLISION
CENTER

LOCATION:

5355 NW 24TH STREET
MARGATE, FL 33063

FOR:

SOLARCH

ARCHITECTURE -INTERIORS
PLANNING -SUSTAINABLE DESIGN
VISUALIZATION

6780 SW 80TH STREET
MIAMI, FL 33143

PLAN STATUS:
SUBMITTAL SET:
FOR AGENCY REVIEW
AND APPROVAL

LUIS A. BETALLELIZ, JR., P.E. FL P.E.# 65892
(NOT VALID WITHOUT SIGNATURE AND PROPER SEAL)

SHEET NAME:

CAR WASH
IMPROVEMENT PLAN

SHEET NUMBER:

C 1.0

- SPECIFICATIONS (OS-1000-CS6)**
- 6" inlet/outlet connections, 4" vent connection.
 - Max flow rate: 314 GPM
 - Max flow rate to achieve 5 ppm of residual light liquid in effluent: 90 GPM
 - Liquid capacity: 1000 Gallons
 - Unit weight w/sd. covers: 1968 lbs.
 - Highway traffic load rated, bolted, gas/water tight composite covers. (16,000 lbs)
 - Maximum operating temperature 140 °F continuous.
 - Oil capacity: 736 Gallons
 - Solids/sediment capacity: 35 Gallons

NOTES

- 1" thick seamless high density polyethylene walls.
- Unit supplied with built-in adapter(s) for up to 6" of adjustability. Additional riser(s) available for deeper burial depth.
- For buried applications.
- Lifting lug set for easy install.

ENGINEER SPECIFICATION GUIDE

Striem oil separator model OS-1000-CS6 shall be lifetime guaranteed and made in USA of seamless, molded High Density Polyethylene with minimum 1" uniform wall thickness. Separator shall be furnished for below grade installation with field adjustable riser system. Separator flow rate shall be 314 GPM. Separator oil capacity shall be 736 gallons. Separator sand capacity shall be 35 gallons. Cover shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

The OS-1000-CS6 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

- ☐ 4P - 4" Plain End Inlet / Outlet
☐ 6M - 6" Male Thread Inlet / Outlet
☐ 8P - 8" Plain End Inlet / Outlet
☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
☐ HDK-1 - High Water Table Hold Down Kit

TeleGlide RISER OPTIONS

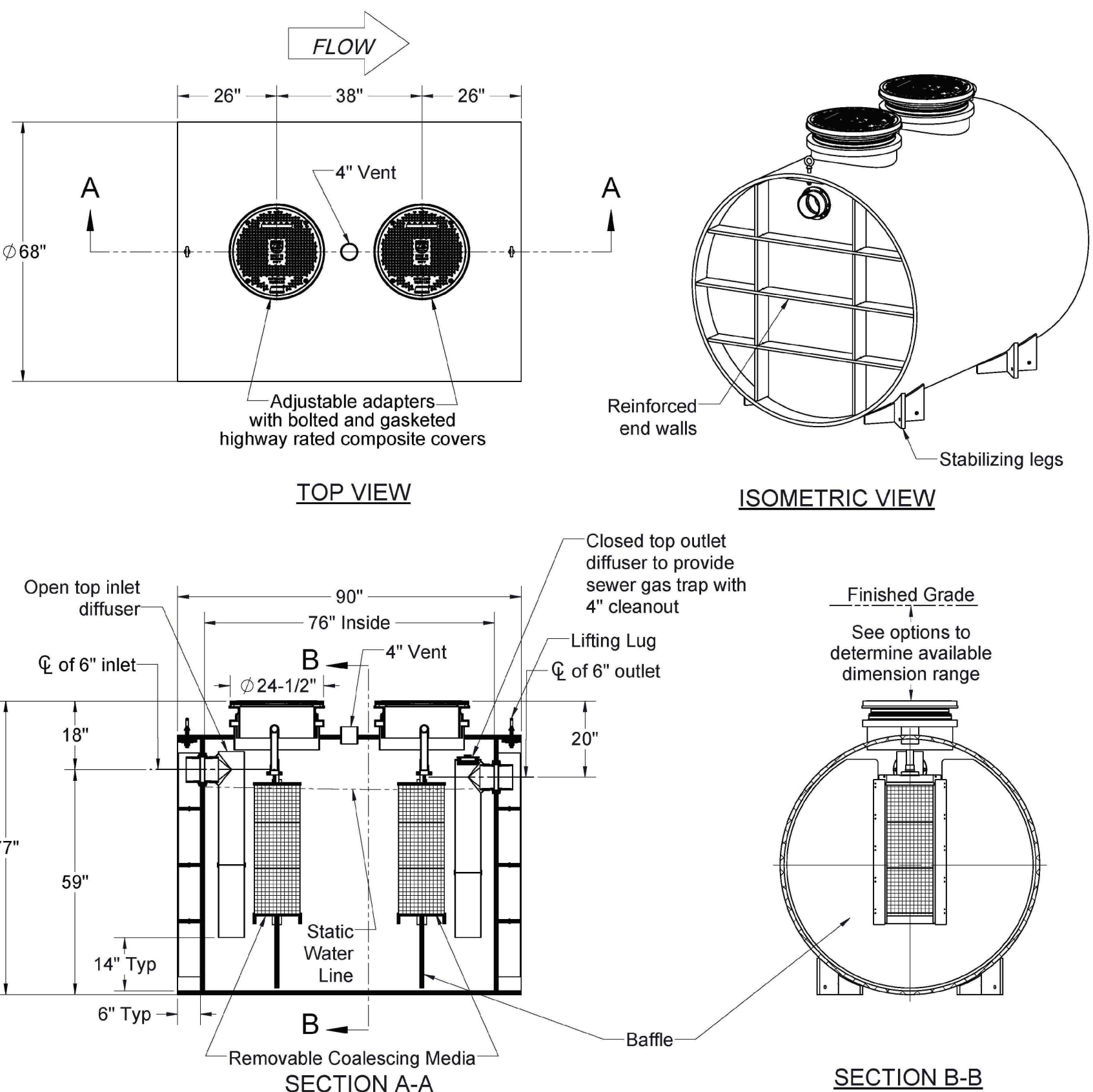
- ☐ SR24 (2) - >6"-24"
☐ LR24 (2) - >24"-39"
☐ SR24 (4) - >39"-43"
☐ SR24 (2) + LR24 (2) - >43"-58"
☐ LR24 (4) - >58"-72"

Clean Sweep™ polypropylene coalescing media has been third party tested to performance standard CEN EN858-1 for class 1 coalescing separators.

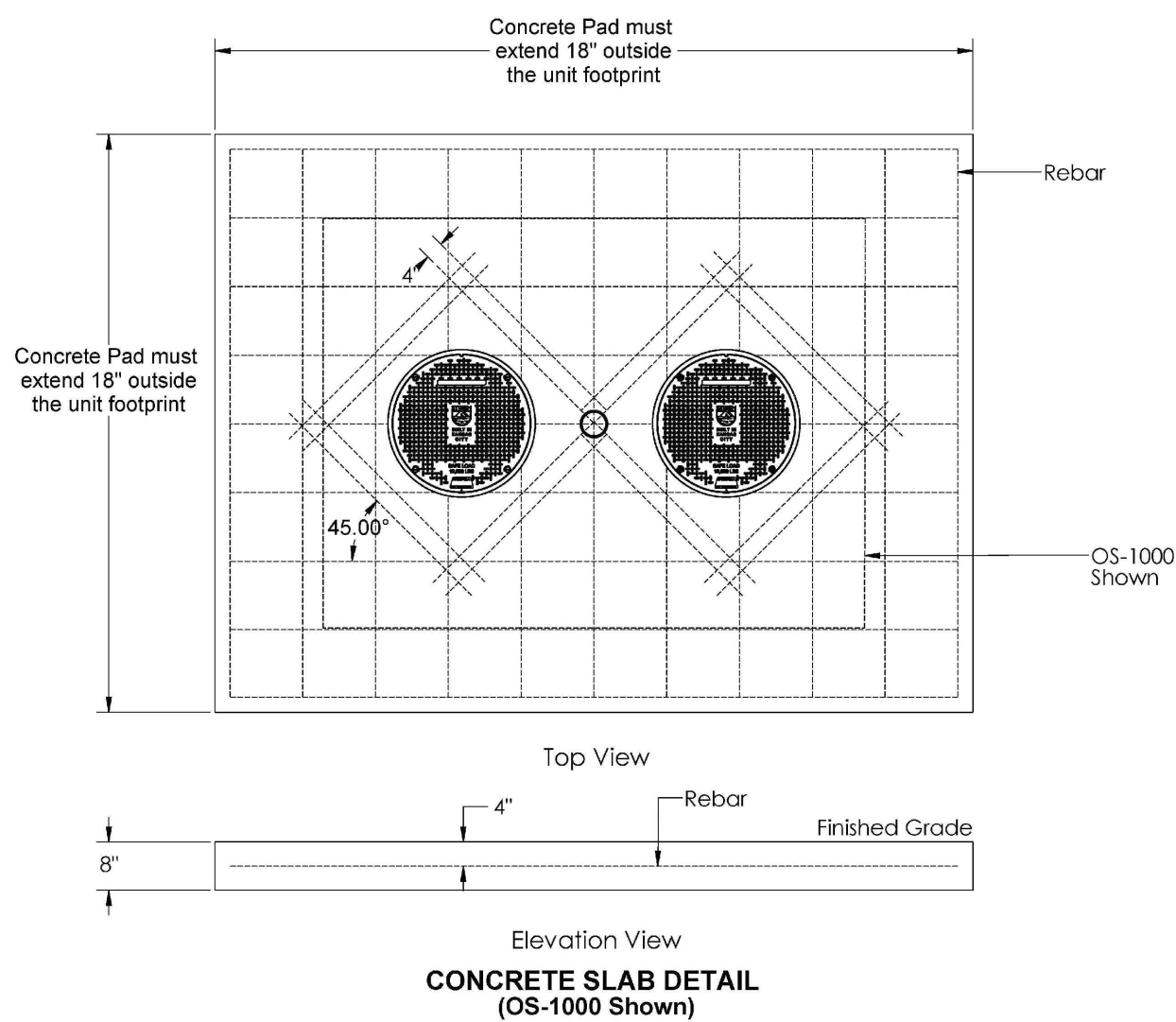
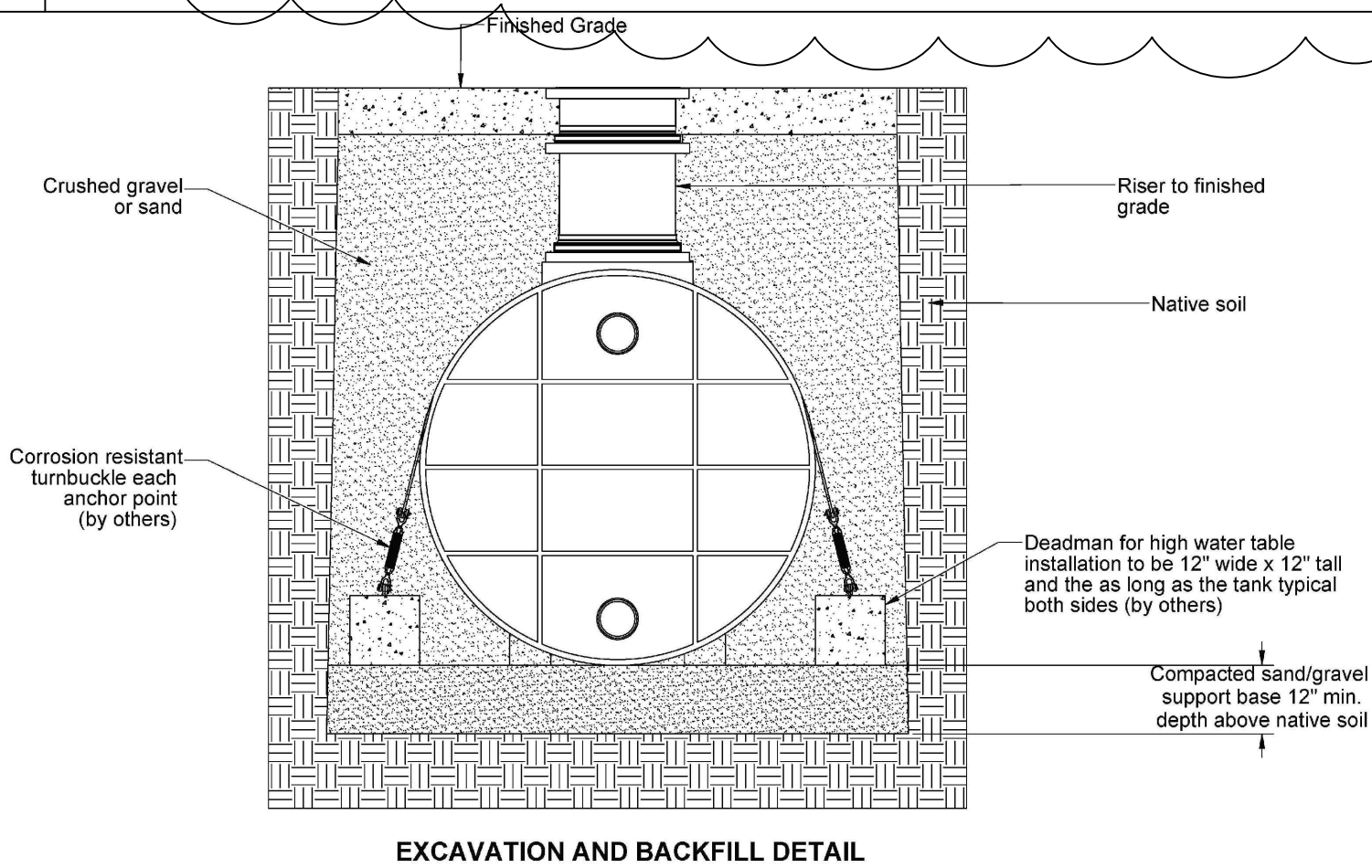
PO IS NON-CANCELABLE
ORDER IS NON-RETURNABLE

Signature of Approval: _____
Company: _____
Date of Approval: _____
Specifying Engineer: _____
Engineering Firm: _____

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MODEL NUMBER: OS-1000-CS6		SPECIFICATION SHEET	
DESCRIPTION:		Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 Fax: 913-291-0457 www.striemco.com Made in the U.S.A	
POLYETHYLENE OIL SEPARATOR 314 GPM 1000 GALLON CAPACITY		STRIEM	
DWG BY: RS	DATE: 1/29/19	REV: 0	ECO:



INSTALLATION INSTRUCTIONS

EXCAVATION

- Install unit as close as possible to fixtures being serviced.
- Surrounding soil must be undisturbed soil or well compacted engineering fill.
- Measure the width and length of the tank and excavate a hole that is a minimum of 18" greater than the tank on all sides.
- Depth of excavation shall be 12" deeper than tank bottom.
- After the excavation is complete create a well compacted support layer of sand/gravel mixture so that ground supporting tank is a minimum of 12" above native soil.

UNIT INSTALLATION

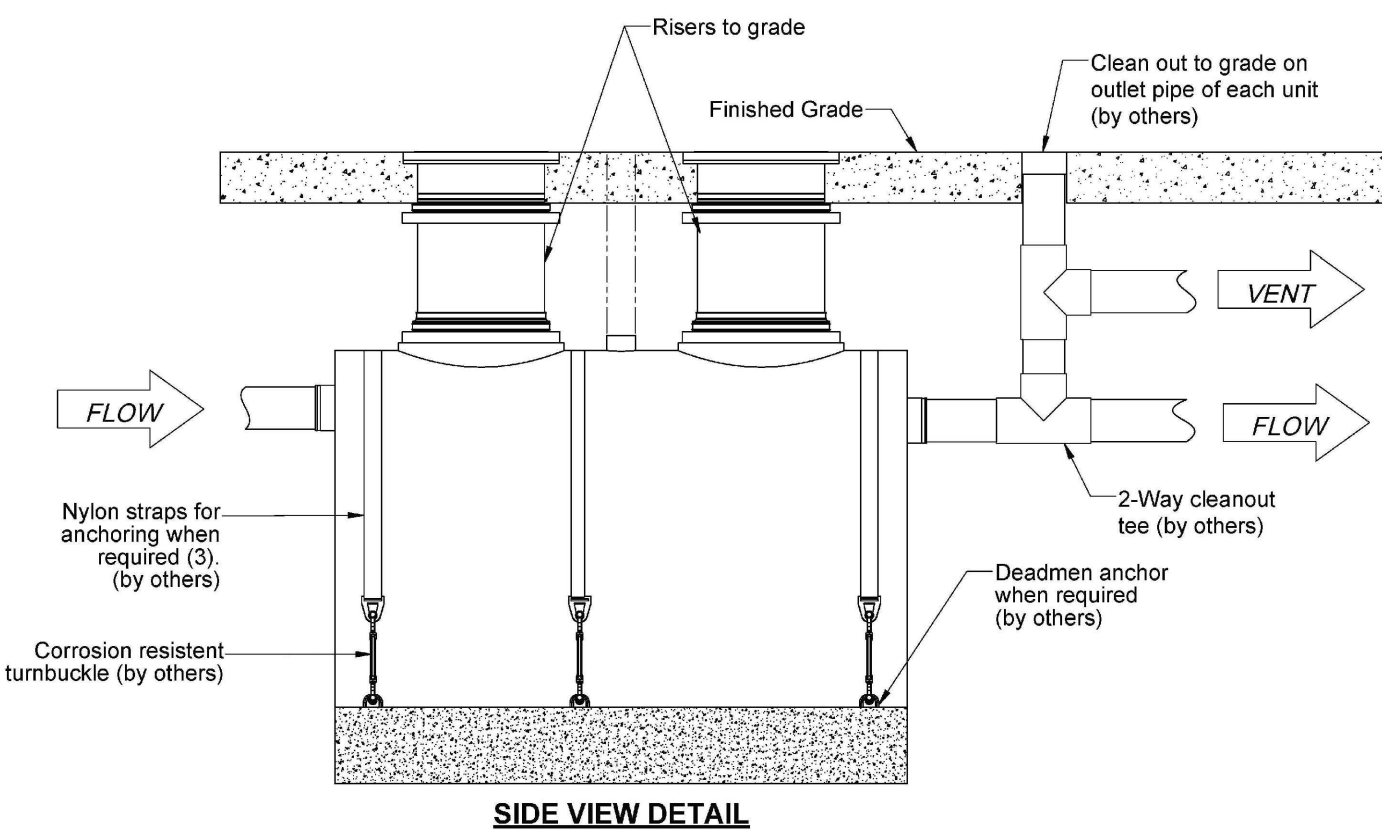
- Lower and center the unit into hole using Striem lifting lug kit (included). Do not use chains or accessways to move the unit.
- Ensure the unit tops are level with finished grade.
- All pipe penetrations to be sleeved or have slip connections.
- Fill unit with water before backfilling to stabilize unit and prevent float out during backfilling

BACKFILLING & FINISHED CONCRETE SLAB

- Before backfilling and pouring of slab secure covers and risers (if necessary) to the unit.
- Backfill evenly all around tank using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
- When backfilling ensure backfill is worked under the unit using a probe to ensure the unit is fully supported.
- Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
- Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
- Concrete to be 28 day compressive strength to 4000 PSI.
- NO. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
- Rebar to be 2 1/2" from edge of concrete.
- Rebar spacing 12" grid. 4" spacing around access openings.

DEADMAN ANCHORING

- Deadmen should be constructed according to the American Concrete Institute (ACI) code.
- Deadmen should be 12" wide x 12" tall and equal to the length of the entire unit.
- Deadmen should have 3 anchor points with turnbuckles and shall be corrosion resistant and rated for a minimum load capacity of 7,500 lbs.
- Lay the deadmen parallel with the unit and ensure that it is outside the shadow of the tank.
- Connect nylon strapping to each anchor point. Nylon straps must have a minimum load capacity of 7,500 lbs.



DESCRIPTION:

OIL SEPARATOR INSTALLATION,
OPERATION AND MAINTENANCE GUIDE

SHEET NUMBER: 2 of 3
DWG BY: RS DATE: 8/15/18 REV: ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com
Made in the U.S.A



Technical Bulletin

Striem
9500 Woodend Road
Edwardsville, KS 66111
913-222-1500
striemco.com

Clean Sweep™ Coalescing Media

Striem oil separators incorporate the patented Diffusion Flow™ design for better separation and storage of hydrocarbon in a smaller footprint. The calibrated diffusers greatly reduce turbulence allowing the effluent to enter the tank without disturbing existing oil and sediment layers. At the listed flow rate, Striem oil/sand separators remove 92% of all non-emulsified floatable substances with a specific gravity of .87 or less.

Coalescing Media Option

For improved separation performance in applications where influent contains emulsified oils, Striem oil separators can be outfitted with Clean Sweep coalescing media. Coalescing media helps smaller oil droplets to coalesce into larger oil droplets, improving rise rate and separation. Flow pattern is critical to the success of any coalescing separator. Striem oil separators are designed to provide an even, diffused flow through the media.

When installed, Clean Sweep media is placed so that all flow must pass through the media (see Figure 1).

Striem Clean Sweep polypropylene media has been third party tested to the CEN EN 858-1 for class 1 coalescing separators, and can provide a maximum residual light liquid (density of test liquid .85 g/cm3, or roughly that of standard motor oil) of 5 mg/L (5 parts per million) effluent water quality at 15 GPM per cubic foot of media. See Figure 2 below for summary of test results.

Figure 1

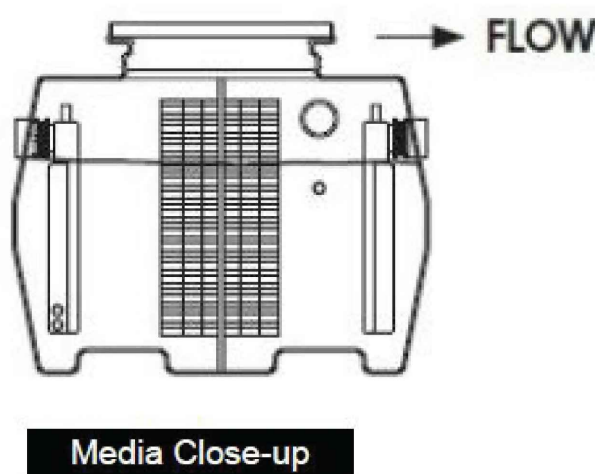


Figure 2

CEN EN 858-1 Test for Class 1 Coalescing Separators

Light Liquid: Density .85 grams/cubic centimeter*
Water: potable or purified surface water
Solubility of light liquid: nil, unsaponifiable
Water Turn Over: minimum of four volumes of test unit
Liquid Flux: 25 - 40 cubic meters/square hour-meters (10 -15 GPM/square foot
Maximum Residual Light Liquid: 5 mg/L**

*Fuel oil, per ISO 8217, designation ISO-F-DMA
**Hydrocarbon content analysis with prescribed infrared Spectroscopy procedure.

EN 858-1 Test Procedure

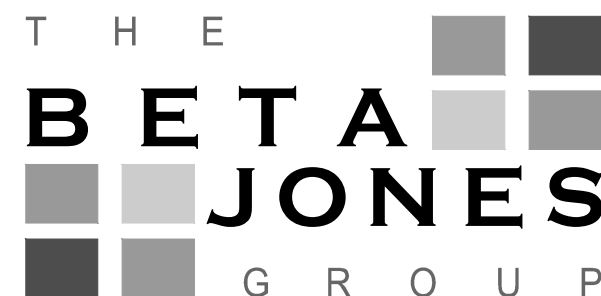
Light Liquid: density 0.85 g/cm³*
Water Quality: potable or purified surface water
Solubility of Light Liquid: nil, unsaponifiable
Water Turn Over: minimum of four volumes of test unit
Liquid Flux: 25 - 40 m³/hr-m² (10 - 15 gpm/ft²)
Maximum Residual Light Liquid: 5 mg/L**

Results using HD Q-PAC at Danish Institute of Technology

Depth HD Q-PAC: 610 mm (24 inches)
Inlet Oil Concentration: 4250 mg/L
Liquid Flux: 31.1 m³/hr-m² (12.7 gpm/ft²)
Outlet Oil Concentration: 0.98 mg/L***
Oil Droplets > 20µ: none observed

* Fuel oil, per ISO 8217, designation ISO-F-DMA
** Hydrocarbon content analysis with prescribed Infrared Spectroscopy procedure.
*** Average of five repetitions. data range 0.9 - 1.1 mg/L

CARWASH WASTEWATER EFFLUENT CHEMICAL INFORMATION



A CIVIL ENGINEERING FIRM
EXPEDITING DEVELOPMENT

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FLORIDA CERTIFICATE OF AUTHORIZATION # 27431

PROJECT NUMBER: 18109			
DRAWN BY: EAG	DESIGN BY: EAG	CHECK BY: LAB	
ORIGINAL DRAWING DATE: 12/04/2012		REVISONS:	
△	CITY	DRC COMMENTS	LAB 5/24/19
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PROJECT NAME:

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6780 SW 80TH STREET
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PLAN STATUS:
SUBMITTAL SET:
FOR AGENCY REVIEW
AND APPROVAL

SHEET NAME:

O/W SEPARATOR
DETAILS

SHEET NUMBER: C 3.0

SUBGRADE PREPARATION:

1. A LATERAL DISTANCE OF AT LEAST 5 FEET BEYOND THE PAVEMENT LIMITS SHOULD BE STRIPPED AND CLEARED OF SURFACE ASPHALT AND BASE MATERIALS, VEGETATION, ORGANIC, OR ROOT LADEN TOPSOIL, AND GRUBBED OF ROOTS, SHRUBS, AND STUMPS, INCLUDING MATURE TREES THAT INTERFERE WITH CONSTRUCTION.
2. IF THE EXISTING ELEVATIONS ARE EQUAL TO THE FINAL ELEVATION, 12 TO 18 INCHES OF SOIL WILL NEED TO BE STABILIZED IN ORDER TO PLACE THE BASE OF THE PAVEMENT.
3. THE STRIPPED AREAS SHOULD BE LEVELED SUFFICIENTLY TO PERMIT EQUIPMENT TRAFFIC. THE PAVED AREAS TO A LATERAL DISTANCE OF AT LEAST 5 FEET BEYOND THE PROPOSED PAVED LIMITS SHOULD BE PROOFROLLED. THE PROOFROLLING SHOULD CONSIST OF COMPACTION WITH A LARGE DIAMETER, HEAVY, VIBRATORY DRUM ROLLER. THE STRIPPED SURFACE SHOULD BE COMACTED WITH A VIBRATORY COMPACTOR HAVING A MINIMUM DYNAMIC FORCE OF TWENTY TONS (DYNAPAC CA-25 OR EQUIVALENT). THE ROLLER COVERAGE SHOULD BE EQUALLY DIVIDED INTO TWO PERPENDICULAR DIRECTIONS AND OPERATED AT A SLOW WALK PACE AT THE HIGH FREQUENCY SETTING. THE PROOFROLLING SHOULD BE CAREFULLY MONITORED FOR SIGNS OF SUBGRADE INSTABILITY, PUMPING, WEAVING, AND OTHER UNUSUAL DISTORTION OF THE SUBGRADE SURFACE UNDER THE WEIGHT OF THE ROLLER WILL BE INDICATIVE OF BURIED POCKETS OF SOFT SOIL. CORRECTION OF SUCH CONDITIONS WILL NECESSITATE REMOVAL OF THE UNSUITABLE MATERIALS AND REPLACEMENT WITH STRUCTURAL FILL.
4. A MINIMUM OF TEN OVERLAPPING PASSES SHOULD BE MADE IN THE PROPOSED PAVED AREAS IN A CRISSCROSS PATTERN BY THE VIBRATORY DRUM ROLLER ACROSS THE GROUND SURFACE. COMPACTION SHOULD CONTINUE UNTIL A MINIMUM DENSITY REQUIREMENT OF 95% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY ESTABLISHED IN ACCORDANCE WITH ASSHTO T-180 HAS BEEN ACHIEVED, AS DETERMINED BY FIELD DENSITY TESTS. DENSITY TESTS SHOULD BE PERFORMED IN THE TOP ONE (1) FOOT OF COMPACTED EXISTING GROUND. FREQUENT WETTING OF THE IN-SITU SOILS MAY BE NECESSARY DURING THE ROLLING OPERATIONS TO PREVENT DRYING AND LOOSENING OF THE UPPER 6 TO 12 INCHES OF SOILS.
5. A 3RD PARTY QUALIFIED INSPECTION TEAM SHOULD BE PRESENT TO OBSERVE THAT THE STRIPPING AND VIBRATORY COMPACTION OPERATIONS ARE INSTALLED CORRECTLY.
6. PRIOR TO INITIATION COMPACTION OPERATIONS, REPRESENTATIVE SAMPLES OF THE STRUCTURAL FILL MATERIAL TO BE USED AND ACCEPTABLE IN-PLACE SOILS SHALL BE COLLECTED AND TESTED TO DETERMINE THEIR COMPACTION AND CLASSIFICATION CHARACTERISTICS. THE MAXIMUM DRY DENSITY, OPTIMUM MOISTURE CONTENT, GRADATION, AND PLASTICITY CHARACTERISTICS SHOULD BE DETERMINED. THESE TESTS ARE NEEDED FOR COMPACTION QUALITY CONTROL OF THE STRUCTURAL FILL AND EXISTING SOILS, AND TO DETERMINE IF THE FILL MATERIAL IS ACCEPTABLE.

GRADING NOTES:

1. PROPOSED SPOT ELEVATIONS SHOWN ON THIS PLAN INDICATE THE ELEVATION PROPOSED AT THE TOP OF FINISHED ASPHALT UNLESS OTHERWISE NOTED.
2. CONTOURS SHOWN ON THIS PLAN ARE GRAPHICAL, ONLY, AND SHALL NOT BE USED TO DETERMINE OR CONTRADICT SPECIFIC SITE ELEVATIONS.
3. UPON DISCOVERY OF A CONFLICT BETWEEN ELEVATIONS OR WHEN A SPECIFIED ELEVATION IS IN DOUBT, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
4. THE SITE SHALL BE GRADED, UNIFORMLY, BETWEEN SPECIFIED ELEVATIONS AND THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING RIDGES, SWALES, AND GRADE BREAKS AS INDICATED ON THE PLANS.
5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SLOPE EXCEEDS 2% IN ANY DIRECTION WITHIN ACCESSIBLE LOADING AREAS, ACCESSIBLE PARKING SPACES, OR ACCESSIBLE ROUTES (WITH THE EXCEPTION OF ACCESSIBLE RAMPS).
6. EXISTING VALVES, METER BOXES, INLETS, MANHOLES, AND CLEANOUTS LOCATED WITHIN THE PROPOSED LOT BOUNDARY SHALL BE ADJUSTED TO MATCH FINISHED PROPOSED GRADE.
7. THIS PLAN DOES NOT AUTHORIZE OFFSITE GRADING ACTIVITY
8. APPROVAL OF THIS PLAN DOES NOT PRECLUDE THE CONTRACTOR FROM ACQUIRING OTHER APPLICABLE PERMITS AND RELEASES WHICH MAY BE REQUIRED PRIOR TO COMMENCING ANY LAND-DISTURBING ACTIVITY.
9. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE PROPOSED WORK DESCRIBED IN THE PLANS.

PAVING NOTES:

1. PAVEMENT AND / OR BASE MATERIAL SHALL NOT BE INSTALLED UNTIL ALL UTILITY INSTALLATION WORK HAS BEEN COMPLETED, WHERE APPLICABLE, UNDERNEATH THE AREA TO BE PAVED.
2. THE CONTRACTOR SHALL SUPERVISE AND ENSURE PROPER COMPACTION HAS BEEN OBTAINED UNDERNEATH PROPOSED PAVED AREAS. THIS INCLUDES BACKFILL OF UTILITY LINES INCLUDING, BUT NOT NECESSARILY BE LIMITED TO: WATER, SEWER, STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, IRRIGATION, AND CONDUITS.
3. MANHOLES, CATCH BASINS, INLETS, AND VALVES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE.
4. PRIOR TO PLACING ANY ASPHALT, ALL LOOSE MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE BASE.
5. ALL NEWLY PAVED AREAS SHALL BE PROTECTED FROM TRAFFIC UNTIL THE SEALER IS SET AND CURED.
6. WHERE REQUIRED TO RETURN TO AND MATCH EXISTING PAVEMENT, A NEAT WORK LINE AT THE CONNECTION POINT SHALL BE ESTABLISHED BY USE OF A CUTTING WHEEL OR OTHER METHOD APPROVED BY THE ENGINEER.
7. ANY SAWCUT EDGES OF EXISTING PAVEMENT SHALL BE CLEANED AND HAVE A TACK COAT APPLIED PRIOR TO INSTALLATION OF NEW ADJACENT ASPHALT.
8. A STABILIZED SUBGRADE HAVING A MINIMUM LBR OF 40 SHALL BE PLACED TO A DEPTH OF AT LEAST 12 INCHES BELOW THE BASE COURSE. THE BASE COURSE MAY RANGE FROM 6 INCHES TO 8 INCHES DEPENDING ON THE TRAFFIC LOADING CHARACTERISTICS AND PAVEMENT DESIGN LIFE, AND SHOULD HAVE A MINIMUM LBR OF 100 MEETING THE REQUIREMENTS OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTION 911.
9. THE MINIMUM 12 INCHES OF STABILIZED SUBGRADE SHOULD BE COMPACTED TO AN EQUIVALENT DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. THE BASE MATERIAL SHOULD BE COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. THE BASE COURSE SHOULD ALSO HAVE A MINIMUM CARBONATE CONTENT OF 70%, BASED ON THE BORING RESULTS. IT MAY BE POSSIBLE TO USE EXISTING SOILS FOR STABILIZED SUB-GRADE AND POTENTIALLY BASE COURSE MATERIAL, HOWEVER LABORATORY TESTING WILL BE NEEDED.
10. THE ENTIRE PAVEMENT THICKNESS SHOULD BE BASED ON DESIGN REQUIREMENTS, COMPACTION, AND TESTED WITH BACKSCATTER DENSITIES EQUIVALENT TO THE MARSHALL VALUE.
11. FOR THE PROPOSED DRIVEWAY APPROACH, PROVIDE THE TYPE OF PAVEMENT DESIGN PER FDOT STANDARDS.
12. ASPHALT SHALL BE SAW-CUT BEFORE REMOVING SHOULDER AND/OR GUTTER TO PREVENT DAMAGING THE EXISTING ASPHALT.

PAVEMENT MARKING NOTES:

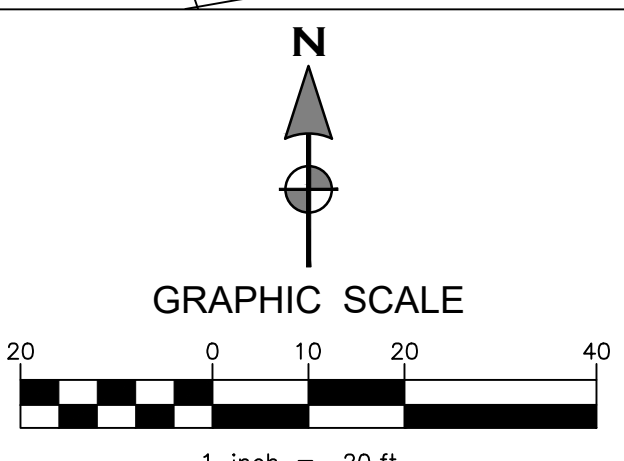
1. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 971 - TRAFFIC MARKING MATERIALS; AND THE COLOR SHALL BE AS INDICATED ON THE PLANS.
2. PAINT FOR OBLITERATING EXISTING MARKINGS, WHEN SPECIFIED, SHALL CONFORM TO FEDERAL SPECIFICATION TT P 110C.
3. ALL PAVED SURFACES TO BE MARKED SHALL BE THOROUGHLY CLEANED PRIOR TO APPLICATION OF MARKING MATERIALS.
4. DUST, DIRT, AND OTHER GRANULAR SURFACE DEPOSITS SHALL BE REMOVED BY SWEEPING, BLOWING WITH COMPRESSED AIR, RINSING WITH WATER, OR A COMBINATION OF THESE METHODS.
5. PAVEMENT MARKING SHALL FOLLOW AS CLOSELY AS PRACTICAL AFTER THE PAVED SURFACE HAS BEEN CLEANED AND DRIED.
6. WHERE NEW PAVEMENT HAS BEEN INSTALLED, THE NEW SURFACE SHALL BE ALLOWED TO CURE FOR AT LEAST 14 DAYS PRIOR TO APPLICATION OF MARKING MATERIALS.
7. WHEN SPECIFIED TO BE REMOVED, EXISTING PAINT MARKINGS, RUBBER DEPOSITS, AND OTHER COATINGS ADHERING TO THE PAVEMENT SHALL BE REMOVED WITH SCRAPERS, WIRE BRUSHINGS, SANDBLASTING, MECHANICAL ABRASION, OR APPROVED CHEMICALS AS DIRECTED BY THE ENGINEER.



EXISTING DRAINAGE MANHOLE WITH ADDED 24" DIAMETER DRAINAGE INLET
INV. ELEV. = 8.00 (WEST)
PROP. BOT. ELEV. = 6.00 NAVD
EXISTING INV. ELEVATIONS TO REMAIN. IF MANHOLE REQUIRES DEMOLITION, THEN 5' DIAMETER CONCRETE MANHOLE SHALL BE ACCEPTED.

PROPOSED 82' LONG, 5' WIDE EXFILTRATION TRENCH. 1ST AND LAST 5' SOLID 18" HDPE AND 72' OF PERFORATED 18" DIA. HDPE (SEE DETAILS).
TOP OF TRENCH ELEV. = 10.50
BOT. OF TRENCH ELEV. = 1.50
SHWT EL. = 8.00 NAVD

EXISTING DRAINAGE INLET WITH ADDED 24" DIA. DRAINAGE INLET
INV. ELEV. = 6.50 (EAST)/BAFFLE
PROP. BOT. ELEV. = 4.50 NAVD
EXISTING INV. ELEVATIONS TO REMAIN. IF INLET REQUIRES DEMOLITION, THEN FDOT TYPE D INLET SHALL BE ACCEPTED.



T H E

BETA

JONES

G R O U P

A CIVIL ENGINEERING FIRM
EXPEDITING DEVELOPMENT

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FLORIDA CERTIFICATE OF AUTHORIZATION # 27431

PROJECT NUMBER: 18109		
DRAWN BY: EAG	DESIGN BY: EAG	CHECK BY: LAB
ORIGINAL DRAWING DATE: 12/04/2018		
REVISIONS:		
△	CITY DRC COMMENTS	LAB 5/24/19
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PROJECT NAME:

MARGATE COLLISION CENTER

LOCATION:

**5355 NW 24TH STREET
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FOR:

SOLARCH

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PLANNING -SUSTAINABLE DESIGN
VISUALIZATION

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AND APPROVAL**

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(NOT VALID WITHOUT SIGNATURE AND PROPER SEAL)

SHEET NAME:

**DRAINAGE
IMPROVEMENT PLAN**

SHEET NUMBER:	C 4.0
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