

CONTRACT PLANS FOR

CITY OF VENICE

DOWNTOWN ROADWAY

CORRIDOR IMPROVEMENTS

CITY PROJECT #: 2017-03

FDOT FINANCIAL PROJECT ID: 435092-1-58-01

FDOT EDTF #: 439455-1-54-01

FEDERAL FUNDS

CITY of VENICE

ENGINEERING DEPARTMENT

401 WEST VENICE AVENUE

Venice, Florida 34285

ph: (941) 486-2626

LANDSCAPE COMPONENT

INDEX OF LANDSCAPE PLANS

SHEET #	TITLE
	KEY SHEET
LA-01 thru LA-18	HARDSCAPE PLANS
LA-19 thru LA-22	HARDSCAPE DETAILS
LA-23	NOKOMIS CROSSWALK ALTERNATE PLAN
LA-24	NOKOMIS CROSSWALK ALTERNATE DETAIL
LA-25 thru LA-42	PLANT HANGER ALTERNATE PLANS
LA-43	PLANT HANGER ALTERNATE DETAIL
LA-44 thru LA-61	LANDSCAPE PLANS
LA-62	LANDSCAPE SCHEDULE & NOTES
LA-63	LANDSCAPE DETAILS
IR-1 thru IR-18	IRRIGATION PLANS
IR-19	IRRIGATION SCHEDULE & NOTES
IR-20	IRRIGATION DETAILS
IR-21 thru IR-26	TAMPA AVENUE ALTERNATE IRRIGATION PLANS
IR-27	TAMPA AVENUE ALTERNATE IRRIGATION SCHEDULE & NOTES
IR-28	TAMPA AVENUE ALTERNATE IRRIGATION DETAILS
IR-29 thru IR-34	MIAMI AVENUE ALTERNATE IRRIGATION PLANS
IR-35	MIAMI AVENUE ALTERNATE IRRIGATION SCHEDULE & NOTES
IR-36	MIAMI AVENUE ALTERNATE IRRIGATION DETAILS
IR-37 thru IR-54	PLANT HANGER ALTERNATE IRRIGATION PLANS
IR-55	PLANT HANGER ALTERNATE IRRIGATION SCHEDULE & NOTES
IR-56	PLANT HANGER ALTERNATE IRRIGATION DETAILS



Harry L Belton

2018.03.15

14:00:05

-04'00'

100% PLANS

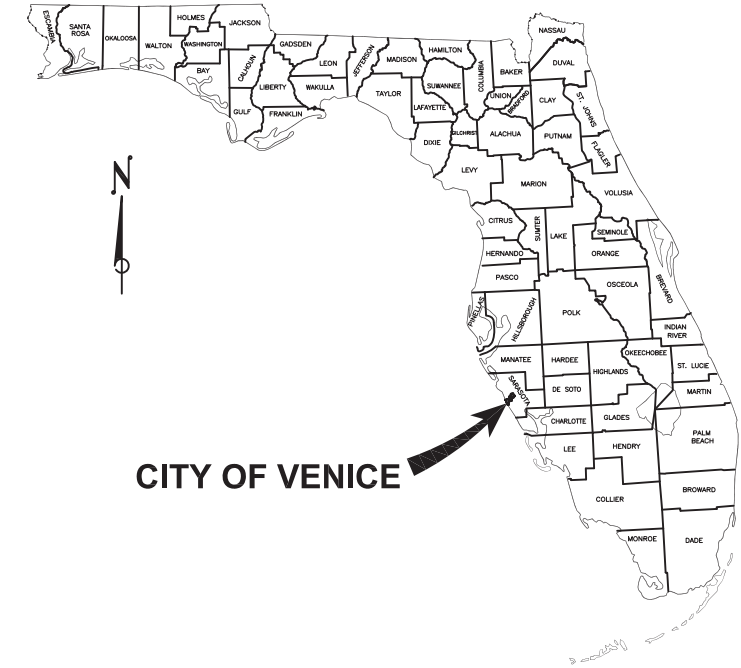
02-28-2018

PREPARED BY:

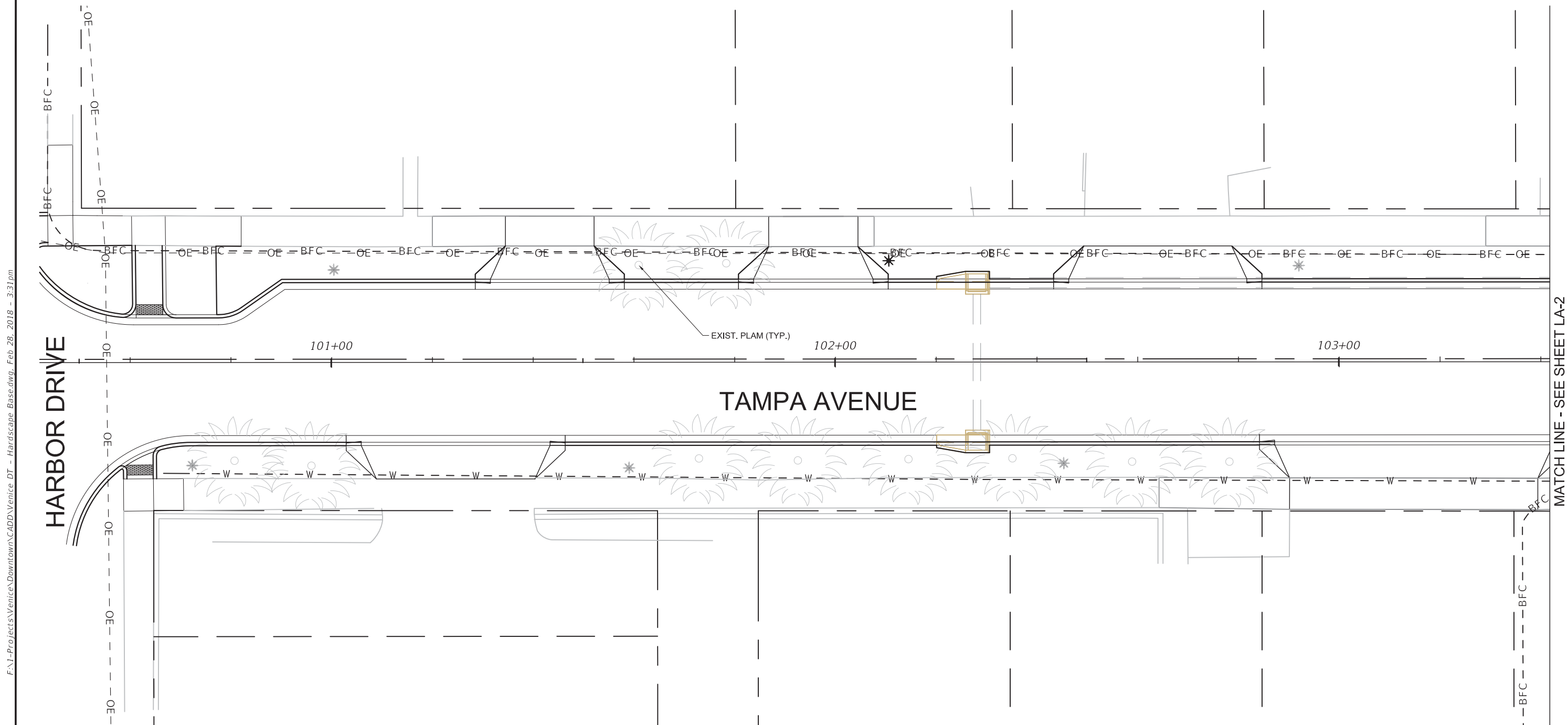
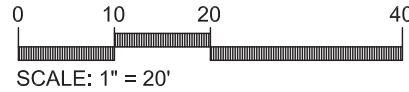
ATKINS

PRINCIPAL ADDRESS:
4030 W. BOY SCOUT BLVD.
SUITE 700
TAMPA, FL. 33607-1712
FBPR CERT. OF AUTH. No. 24



REGISTERED LANDSCAPE ARCHITECT
HARRY L. BELTON
LICENSE # 900
PHONE: 954-233-4381

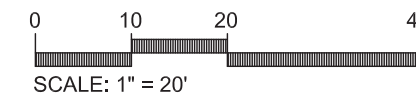


NO HARDSCAPE THIS SHEET

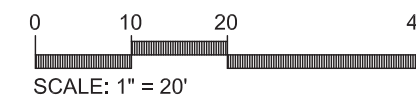


F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Base.dwg, Feb 28, 2018 - 3:31pm

Page 986 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-01
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



SHEET: LA-02

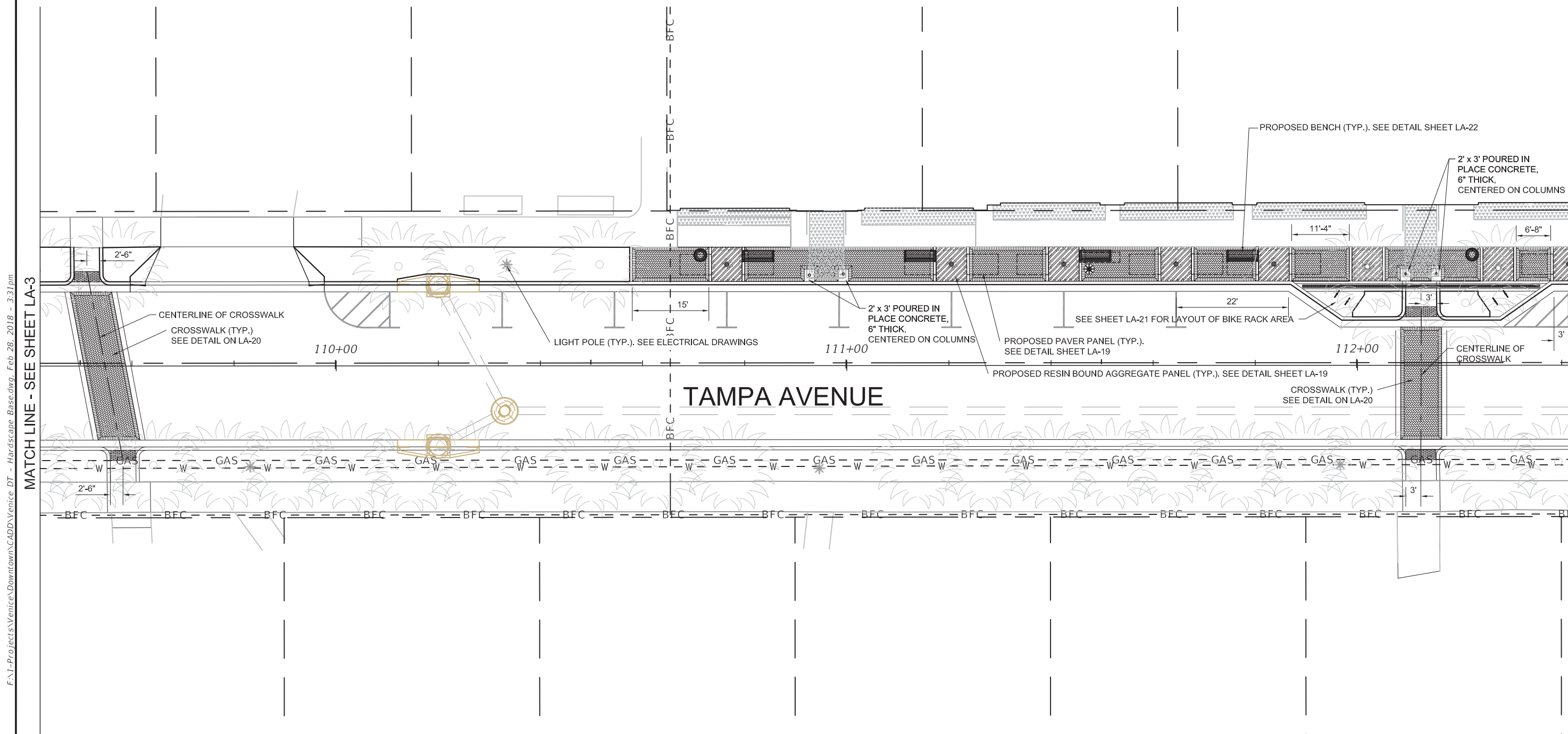
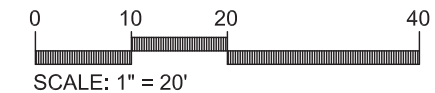


REV. NO.	DATE	DESCRIPTION
----------	------	-------------



PREPARED BY:

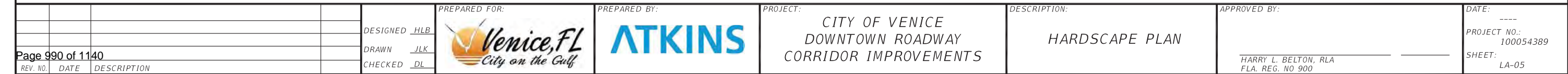
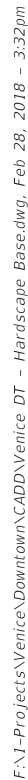
ATKINS

DATE: ----
PROJECT NO.: 100054389
SHEET: LA-03

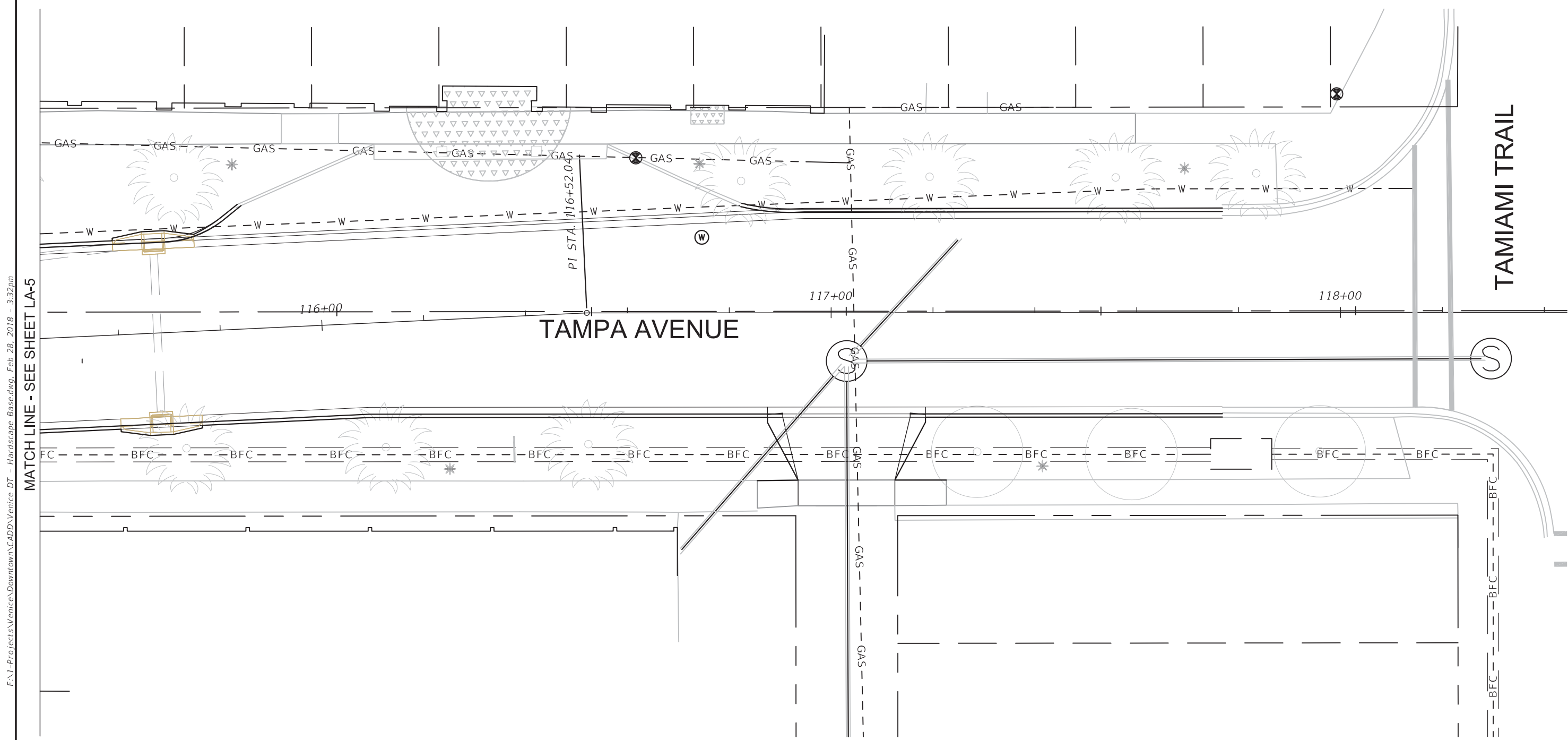
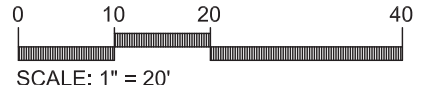


F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Base.dwg, Feb 28, 2018 - 3:31pm



Page 989 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-04
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

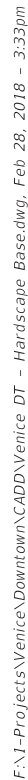
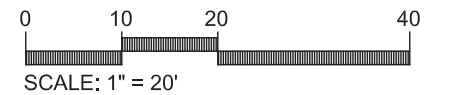


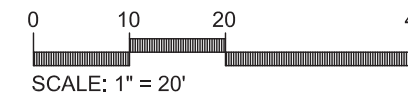
NO HARDSCAPE THIS SHEET



F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Hardscape Base.dwg, Feb 28, 2018 - 3:32pm

Page 991 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-06
REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>						





DESIGNED HLB
DRAWN JLK
CHECKED DL



PROJECT: CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

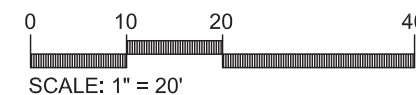
DESCRIPTION:

HARDSCAPE PLAN

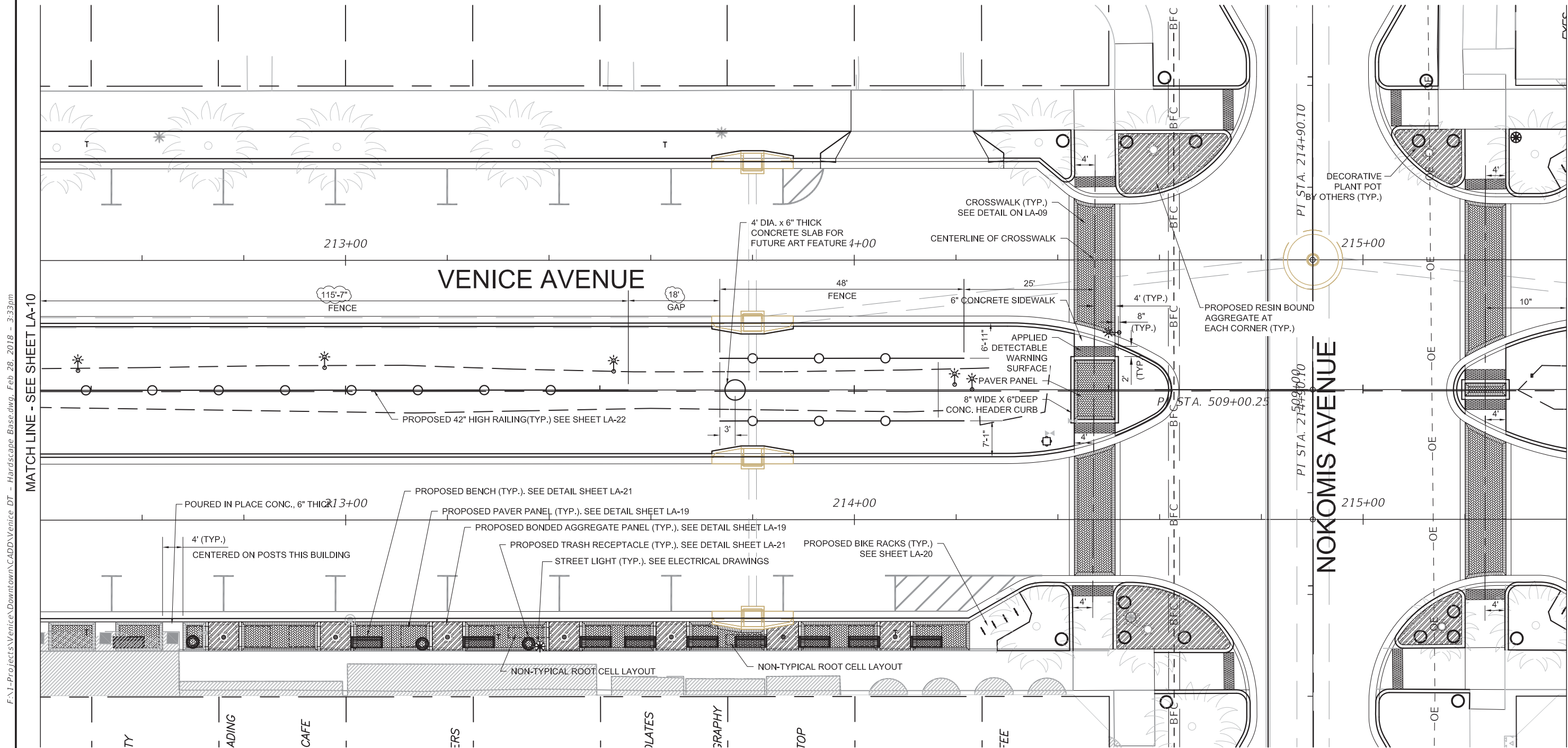
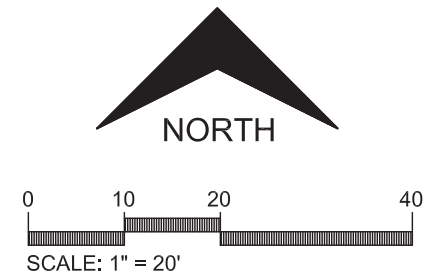
APPROVED BY:

HARRY L. BELTON, RLA
FLA. REG. NO 900



DATE: ----
PROJECT NO.: 100054389
SHEET: LA-09

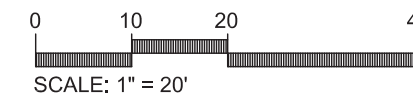


PROJECT NO.: 100054389
SHEET: LA-10

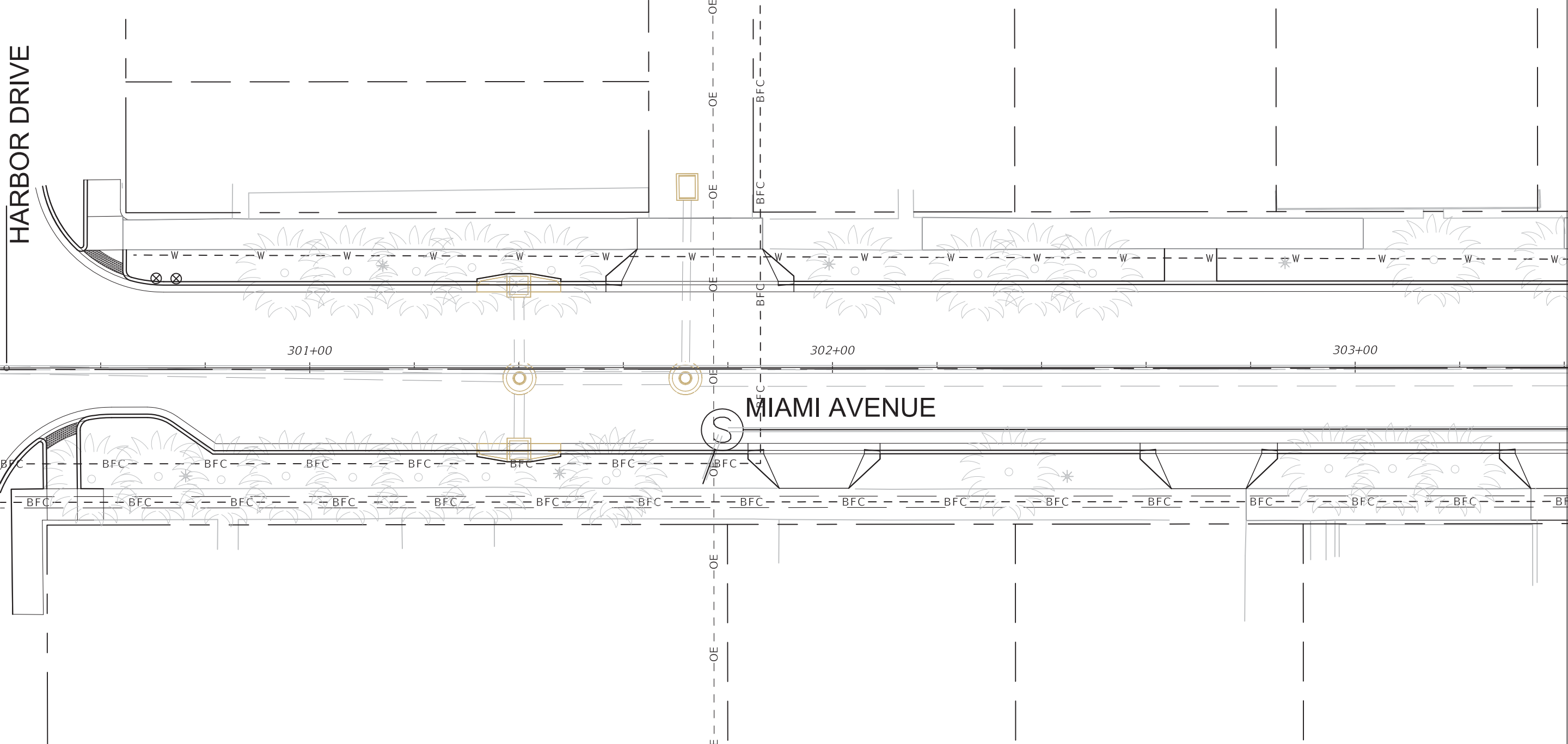
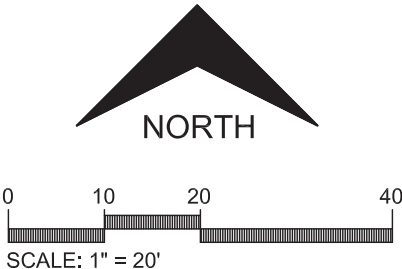


F:\1-Projects\Venice\City on the Gulf\Venice_DT - Hardscape Base.dwg, Feb 28, 2018 - 3:33pm

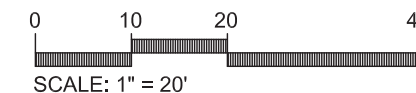
Page 996 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ----- PROJECT NO.: 100054389 SHEET: LA-11
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



NO HARDSCAPE THIS SHEET



MATCH LINE - SEE SHEET LA-14

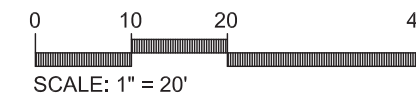




REV. NO.	DATE	DESCRIPTION
----------	------	-------------

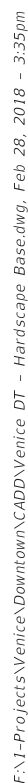
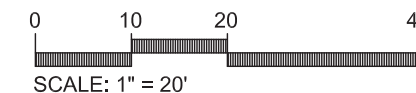
PREPARED BY:



ATKINS

DATE: ----
PROJECT NO.: 100054389
SHEET: LA-14



				DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-15
				DRAWN <u>JKL</u>						
				CHECKED <u>DL</u>						
Page 1000 of 1140										
REV. NO.	DATE	DESCRIPTION								

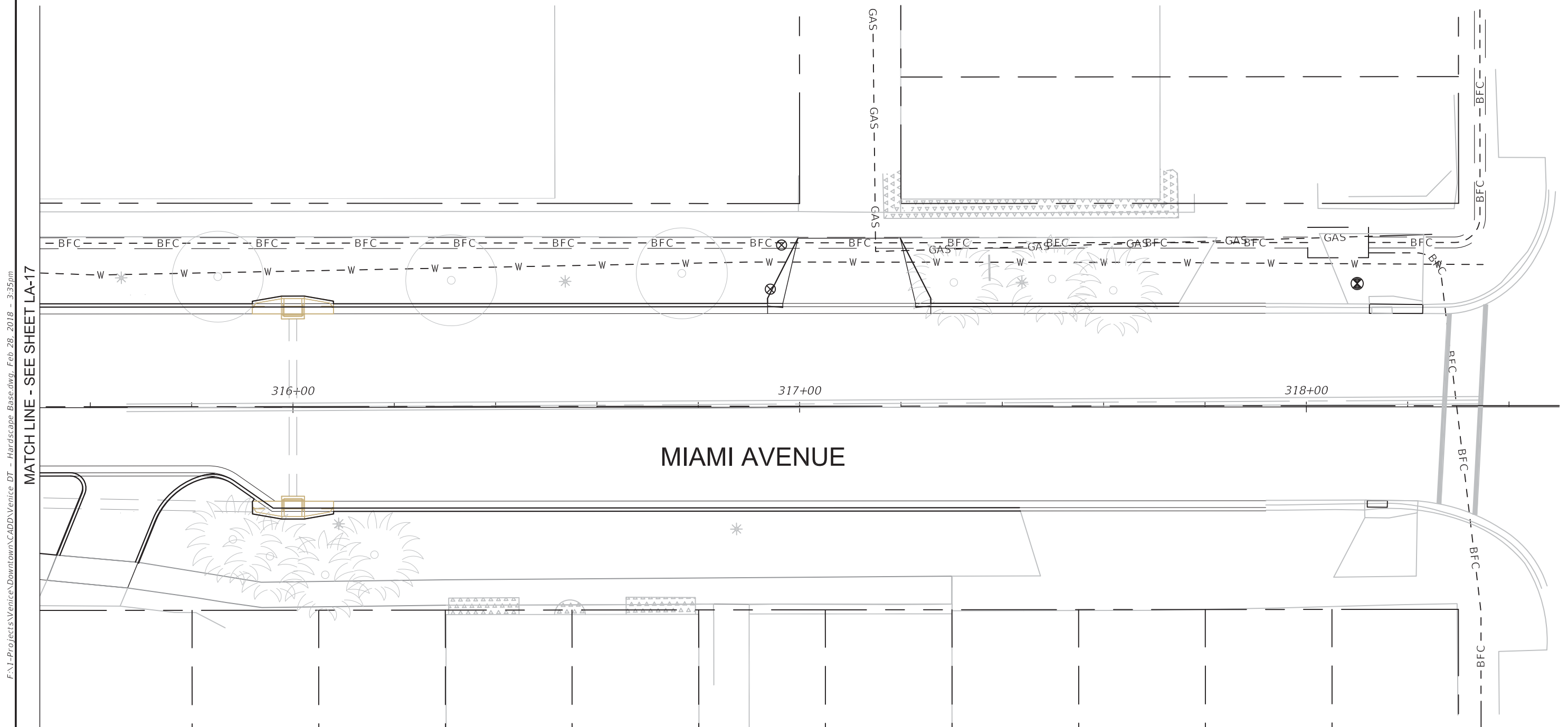


	12/14/17	ADDED DIMENSIONS & RESIN BOUND AGGREGATE		DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ----				
														PROJECT NO.: 100054389
Page 1002 of 1140														SHEET: LA-17
REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>											

NO HARDSCAPE THIS SHEET



SCALE: 1" = 20'



F:\1-Projects\Venice\Downtown\CADD\Venice DT - Hardscape Base.dwg, Feb 28, 2018 - 3:35pm

Page 1003 of 1140

REV. NO.	DATE	DESCRIPTION
----------	------	-------------

DESIGNED	<u>HLB</u>
DRAWN	<u>JLK</u>
CHECKED	<u>DL</u>



PREPARED BY:



PROJECT:

CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

DESCRIPTION:

HARDSCAPE PLAN

APPROVED BY:

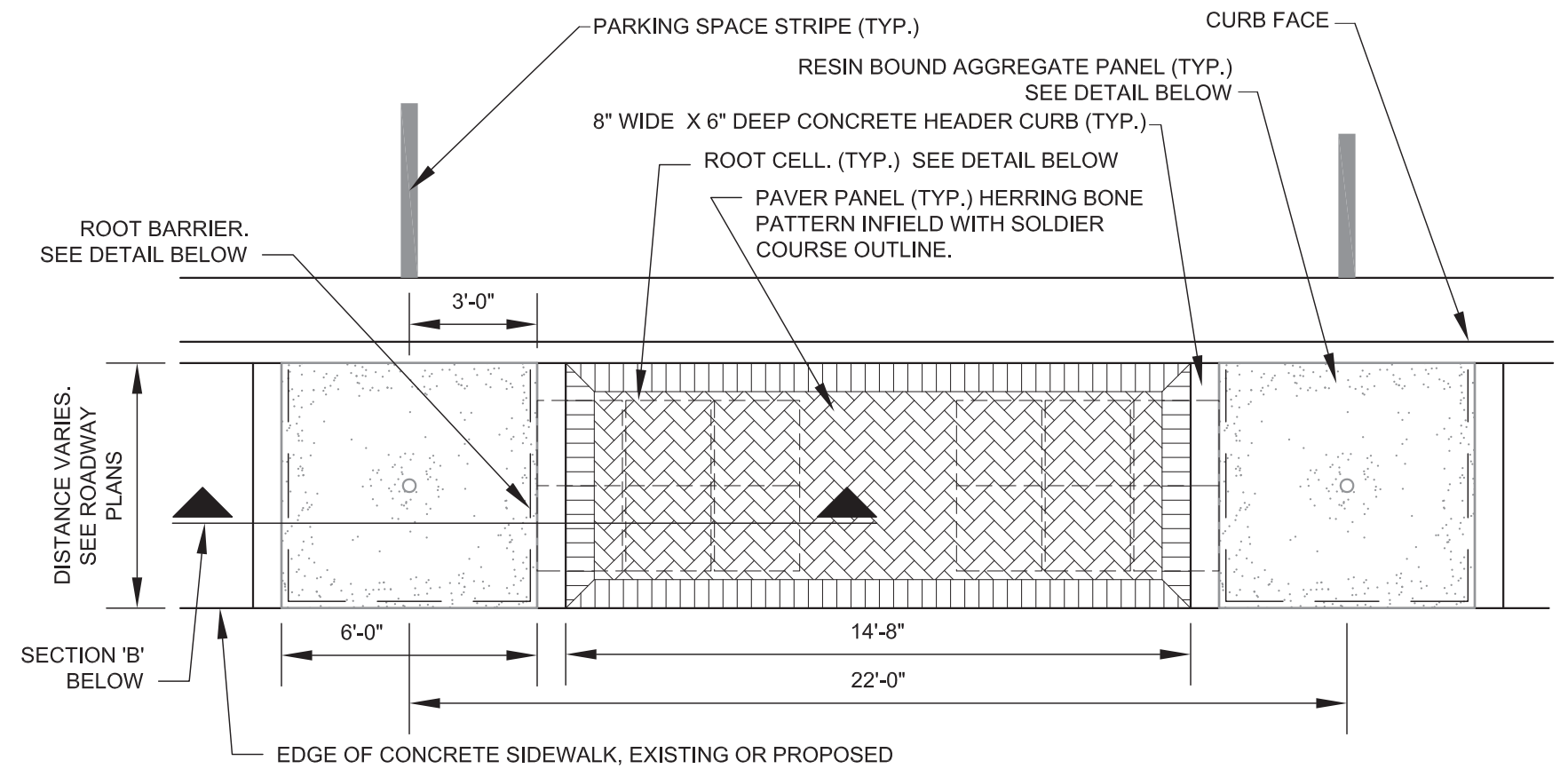
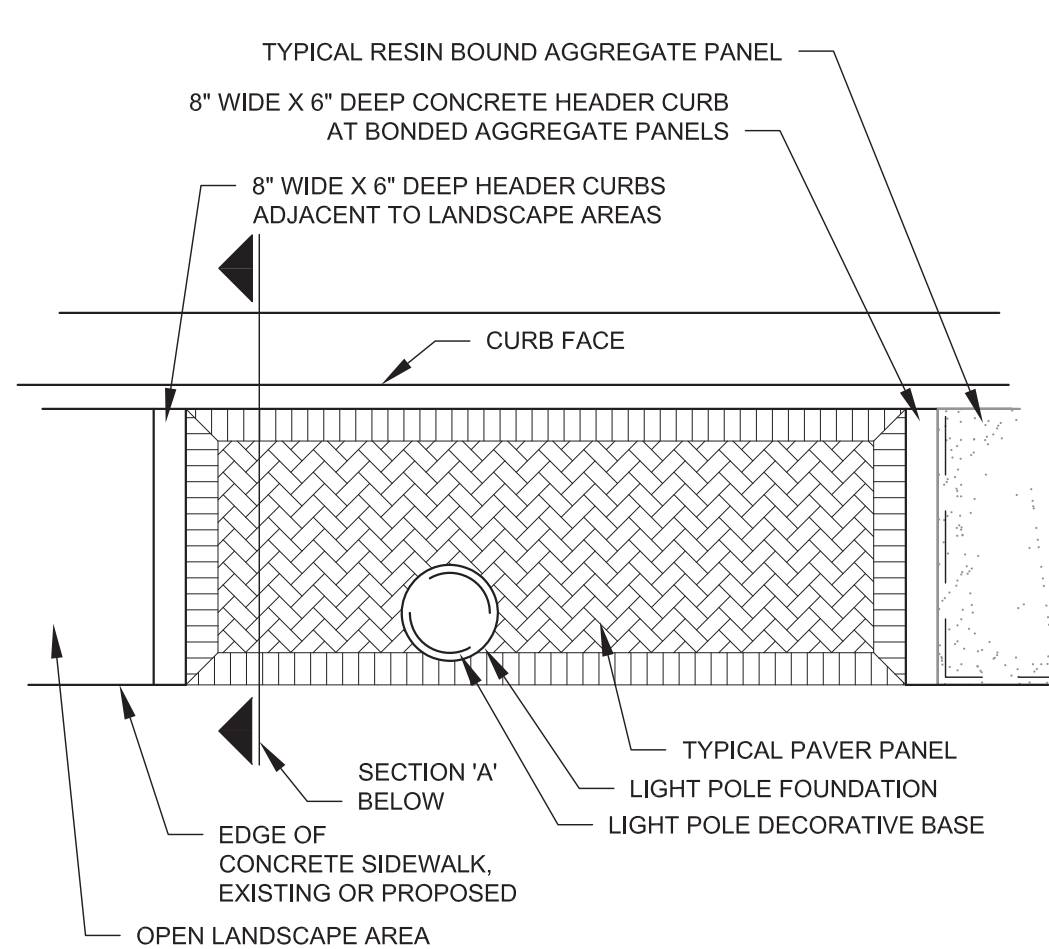
HARRY L. BELTON, RLA
FLA. REG. NO 900

DATE: _____

PROJECT NO.:
100054389

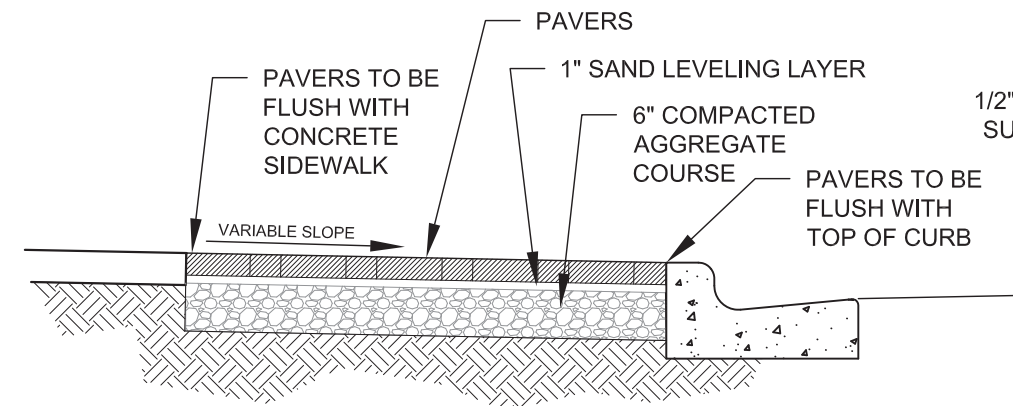
SHEET:
LA-18

F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Base.dwg, Feb 28, 2018 - 10:08am



PLAN OF HARDSCAPE TYPICAL LAYOUT

SCALE: 1/4"=1'-0"



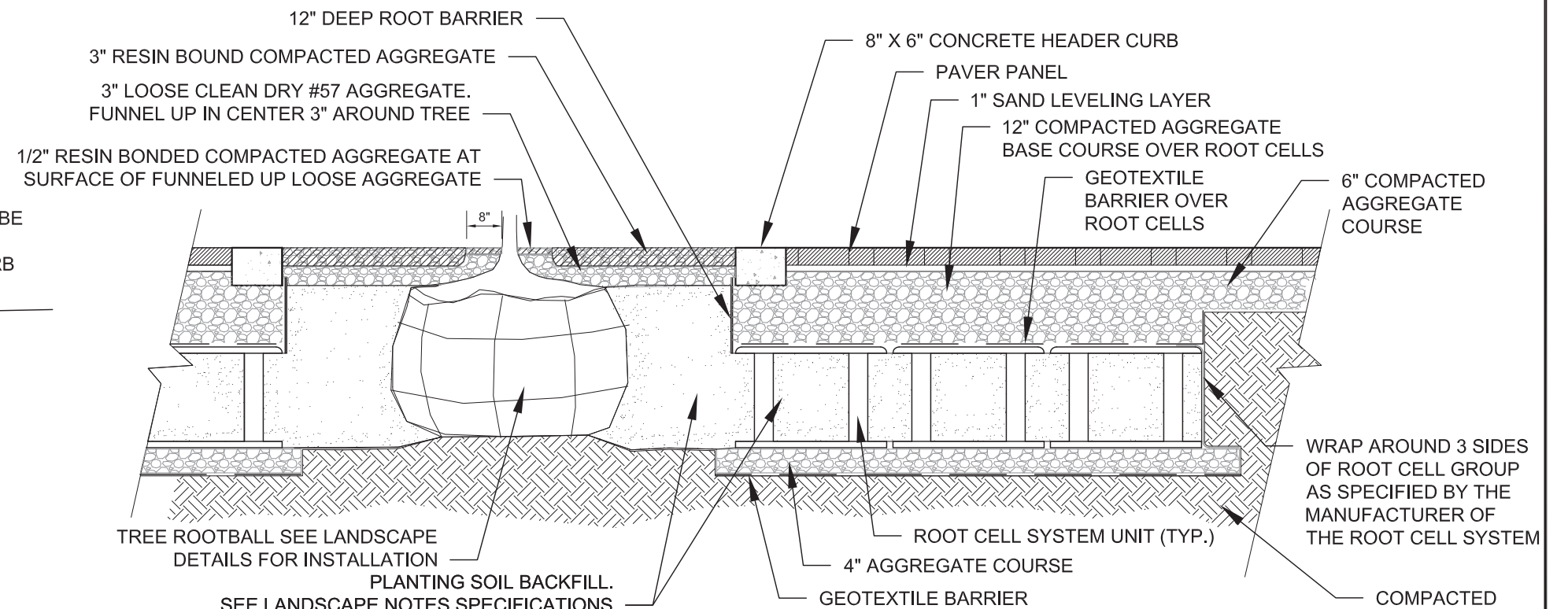
A

SECTION THROUGH PAVER PANEL

SCALE: 1/2"=1'-0"

PAVERS ON VENICE AND TAMPA AVENUES ARE TO BE CLAY BRICK PAVERS. STYLE IS TO BE AN "TRADITIONAL SQUARE EDGE" IN THE COLOR BLEND OF "FULL RANGE COURTYARD" AS MANUFACTURED BY PINE HALL BRICK, OR APPROVED EQUAL.

PAVERS ON MIAMI AVENUE ARE TO BE REUSE OF SALVAGED EXISTING PAVERS WITHIN THE PROJECT AREA ON MIAMI AVENUE.



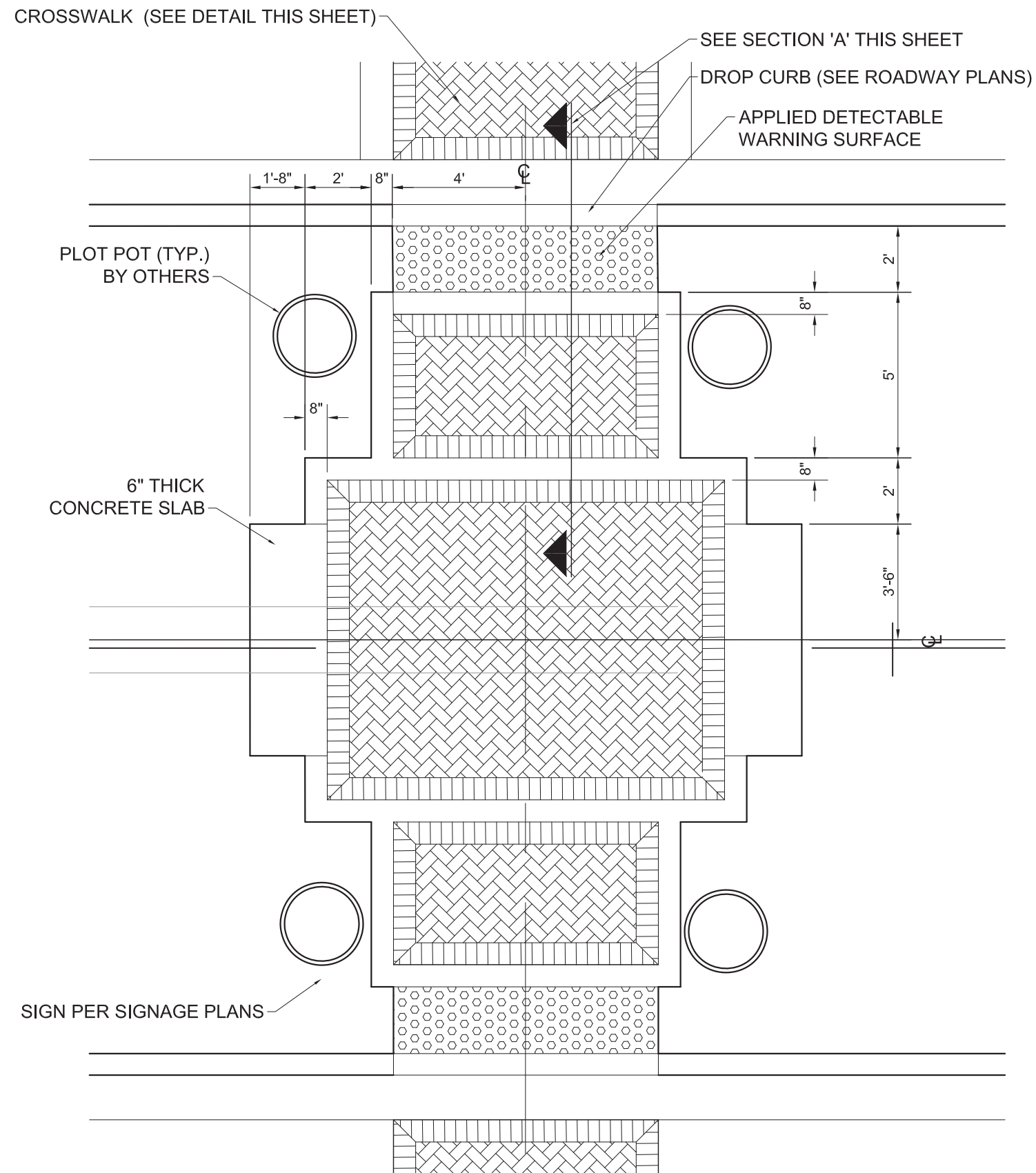
B

SECTION THROUGH TREE OPENING AND ROOT CELLS

SCALE: 1/2"=1'-0"

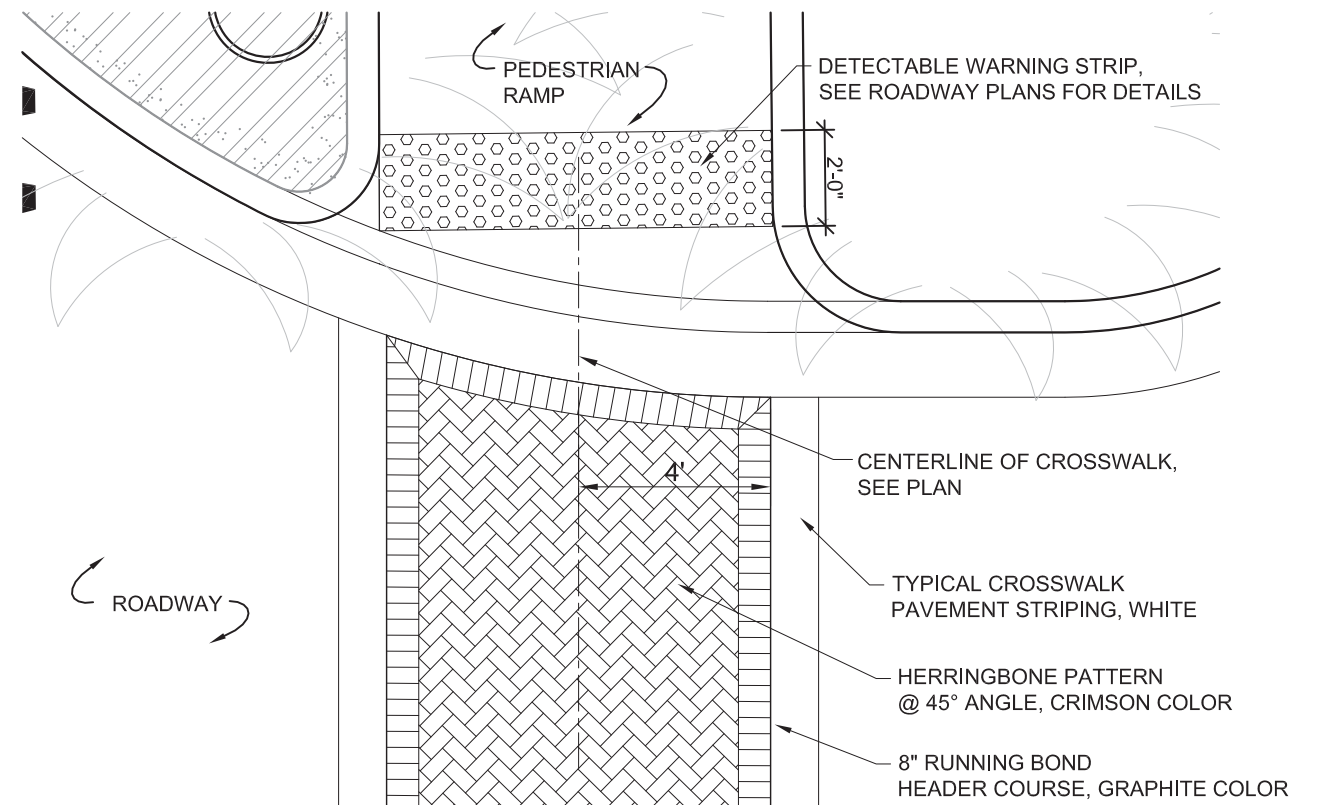
12/14/17	MODIFIED DESCRIPTION	DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE DETAILS	APPROVED BY: 	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-19
Page 1004 of 1140	REV. NO. DATE DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>					HARRY L. BELTON, RLA FLA. REG. NO. 900	

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Base.dwg, Feb 28, 2018 - 10:00am



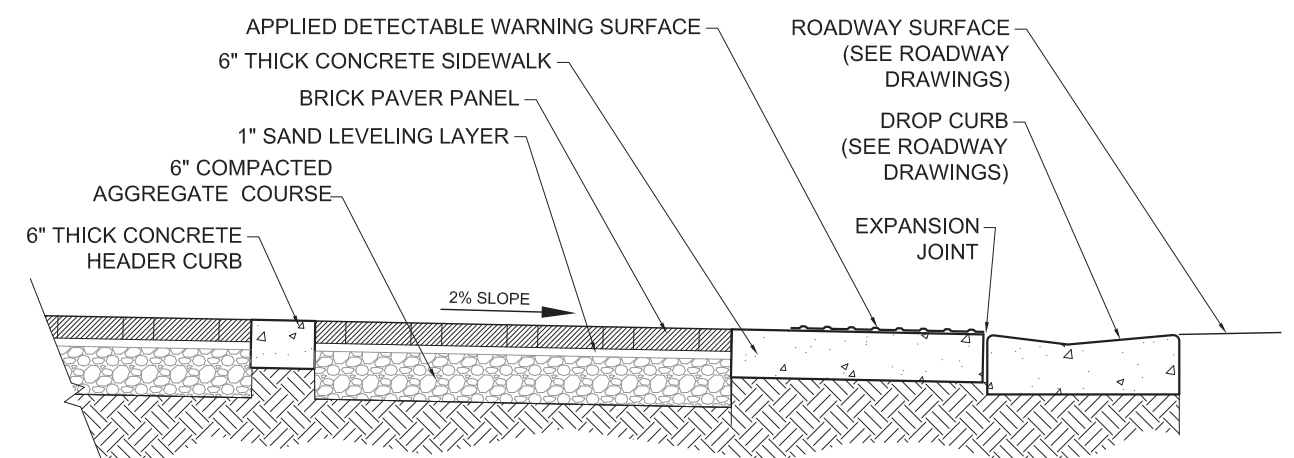
TYPICAL MID-BLOCK CROSSWALK MEDIAN PAVEMENT

SCALE: 1/4"=1'-0"



NOTE:
CROSSWALK MATERIAL IS TO BE AN EPOXY APPLIED GRANULAR COATING USING A PATTERNED TEMPLATE AS OCCURRING ON THE F.D.O.T. APPROVED PRODUCTS LIST


TYPICAL CROSSWALK LAYOUT

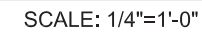
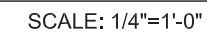
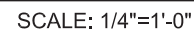
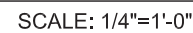




A SECTION THROUGH MEDIAN PAVEMENT

SCALE: 1/2"=1'-0"

TYPICAL FOR MEDIAN AT INTERSECTION CROSSWALKS ALSO

	12/14/17	ADDED DIMENSIONS		DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE DETAILS	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-20
Page 1005 of 1140	REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



					DESIGNED <u>HLB</u>		PREPARED BY:		PROJECT:	CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION:	HARDSCAPE DETAILS	APPROVED BY:	HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: --- PROJECT NO.: 100054389 SHEET: LA-21	
					DRAWN <u>JKL</u>											
Page 1006 of 1140					CHECKED <u>DL</u>											
REV. NO.	DATE	DESCRIPTION														

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Base.dwg, Feb 28, 2018 - 9:57am



BIKE RACKS ARE TO BE A 36" x 3 IN. OD TUBULAR STEEL POST FLANKED BY A 1-5/16 IN. TUBULAR 18 IN. DIA. STEEL RING. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. SURFACE MOUNT.



RAILING IS TO BE 42" HIGH ALUMINUM PICKET. COLOR IS TO BE BLACK POWDER COATED FINISH WITH PRESS POINTS ON 5/8" SQUARE PICKETS WITH CIRCLE CAPTURE DOUBLE TOP RAIL. 2" SQUARE POSTS AT 8' SPACING. CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS.



FURNISHINGS QUANTITIES					
PAY ITEM	DESCRIPTION	QUANTITIES			UNIT
		TAMPA	VENICE	MIAMI	
120-1	EXCAVATION	39	215	81	CY
520-2	8" HEADER CURB	144	660	252	LF
522-2	6" CONCRETE SIDEWALK	16	213	15	SY
523-1	PATTERN PAVEMENT	160	316	190	SY
526-1-2	ARCHITECTURAL PAVERS	150	824	229	SY
	ROOT CELLS	523	2935	1099	CF
580-1-2	RESIN BOUND AGGREGATE	54	196	95	SY
	ALUMINUM FENCING			1592	LF
751-36-11	BIKE RACKS	7	42	8	EA
751-37	TRASH RECEPTACLES	3	17	4	EA
751-38-19	BENCHES	7	44	11	EA

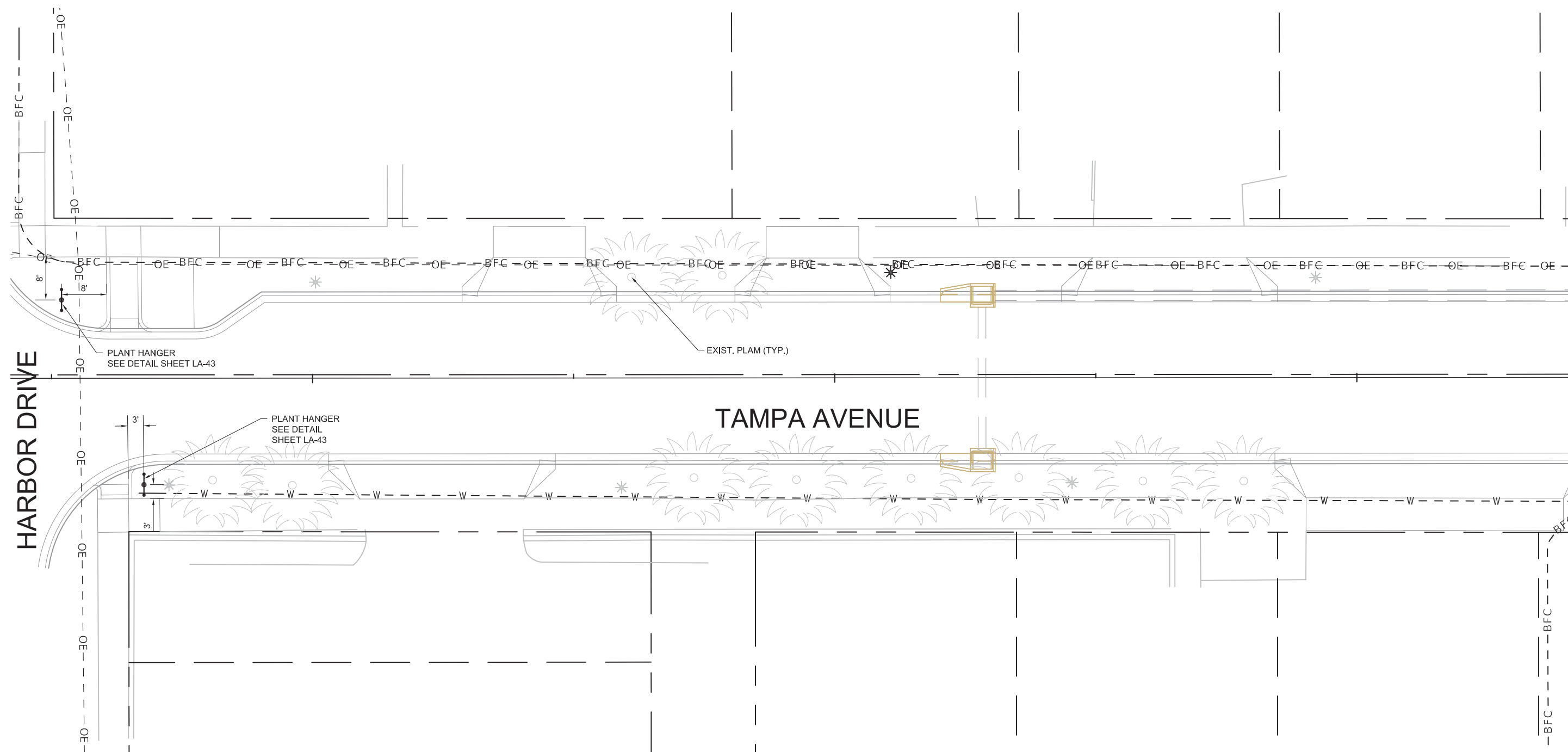
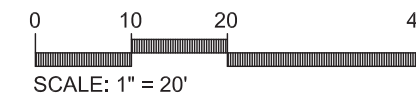


BENCH IS TO BE "PLAINWELL" 72" BENCH BY LANDSCAPE FORMS. WOOD IS TO BE IPE AND METAL IS TO BE BLACK POWDER COAT FINISH. BENCHES ARE TO BE BOLTED TO HEADER CURBS SHOWN ON THE PLANS





TRASH RECEPTACLES ARE TO BE "CHASE PARK LITTER, SIDE OPENING WITH HINGED FLAPPER DOORS", BY LANDSCAPEFORMS. COMPONENTS ARE TO BE BLACK POWDER COATED METAL.

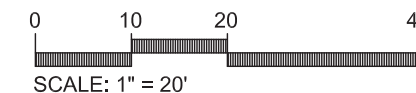
Page 1007 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: HARDSCAPE DETAILS	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-22
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u>	CHECKED <u>DL</u>					



F:\1-Projects\Venice\Downtown\CADD\Venice DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:12am

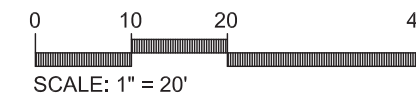
[illegible]



			DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ____-____-____ PROJECT NO.: 100054389 SHEET: LA-25
			DRAWN <u>JLK</u>						
			CHECKED <u>DL</u>						
Page 1008 of 1140									
REV. NO.	DATE	DESCRIPTION							

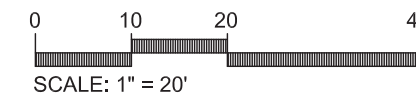


PROJECT NO.: 100054389
SHEET: LA-26

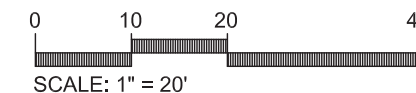
MATCH LINE - SEE SHEET LA-27





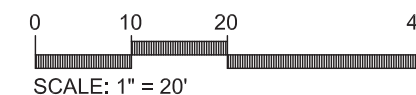
				DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-27
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1010 of 1140 REV. NO. DATE DESCRIPTION										



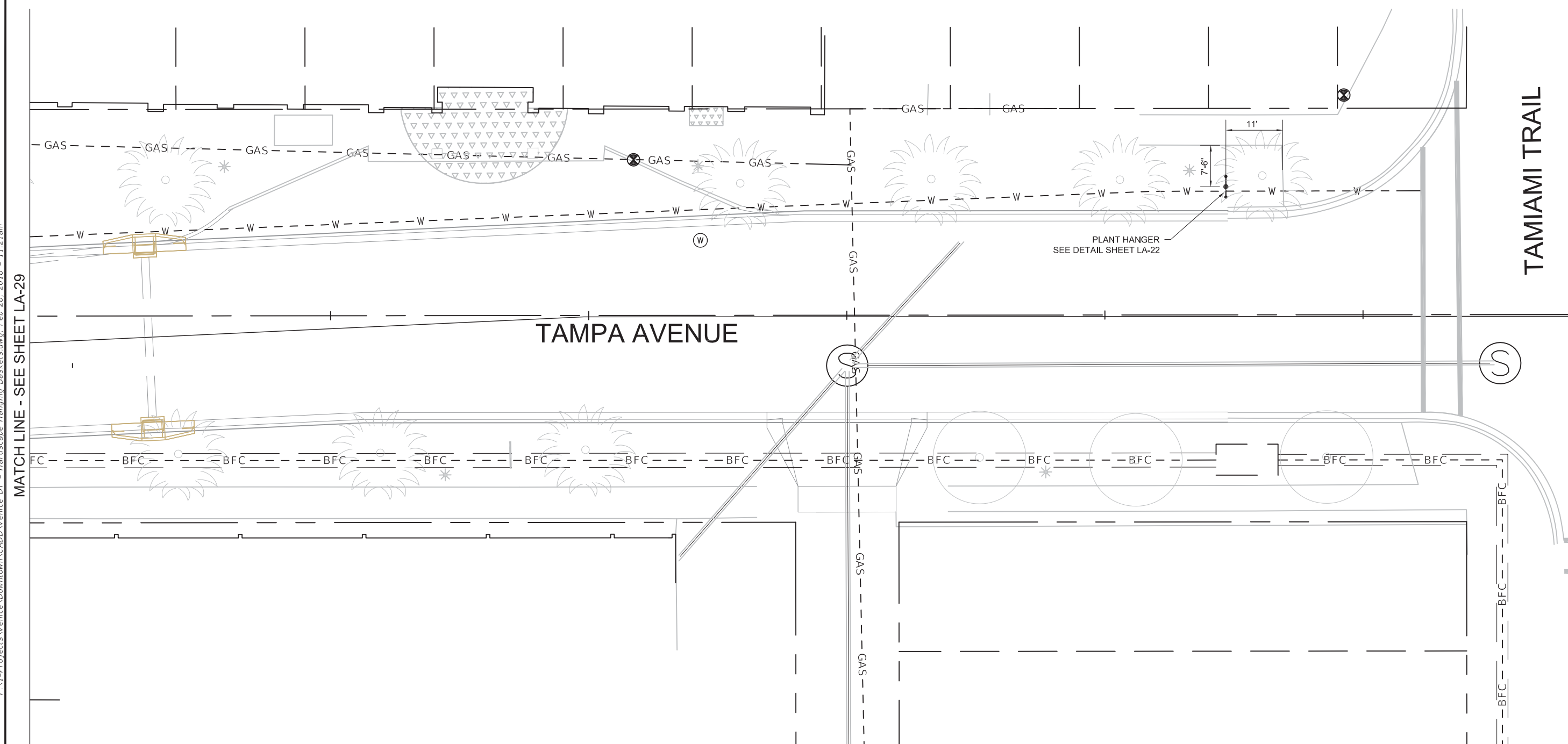
PROJECT NO.: 100054389
SHEET: LA-28



			DESIGNED <u>HLB</u>			PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-29
			DRAWN <u>JLK</u>							
			CHECKED <u>DL</u>							
Page 1012 of 1140										
REV. NO.	DATE	DESCRIPTION								



SCALE: 1" = 20'



MATCH LINE - SEE SHEET LA-29

Page 1013 of 1140

REV. NO.	DATE	DESCRIPTION
----------	------	-------------

DESIGNED HLB
DRAWN JLK
CHECKED DL



PREPARED BY:

ATKINS

PROJECT:

CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

DESCRIPTION:

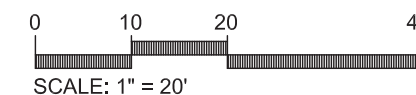
PLANT HANGER
ALTERNATE
PLAN

APPROVED BY:

HARRY L. BELTON, RLA
FLA. REG. NO 900

DATE:



PROJECT NO.: 100054389
SHEET: LA-30

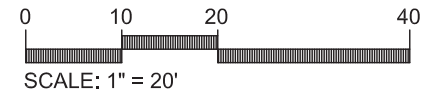


HARBOR DRIVE

— PLANT HANGER
SEE DETAIL SHEET LA-43

F:\1-Projects\Venice\Downtown\CADD\Venice DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:21am

			DESIGNED <u>HLB</u>		PREPARED BY:		PROJECT:	CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION:	PLANT HANGER ALTERNATE PLAN	APPROVED BY:	HARRY L. BELTON, RLA FLA. REG. NO 900	DATE:	----
			DRAWN <u>JLK</u>										PROJECT NO.:	100054389
Page 1014 of 1140			CHECKED <u>DL</u>										SHEET:	LA-31
REV. NO.	DATE	DESCRIPTION												



VENICE AVENUE

PLANT HANGER
SEE DETAIL SHEET LA-43

3'-6"

5'-9"

PLANT HANGER
SEE DETAIL SHEET LA-43

3'-6"

5'-9"

CK

CO.

E

BISTRO

ATO

JEWELRY

TERY

ELWICK'S



EALTY

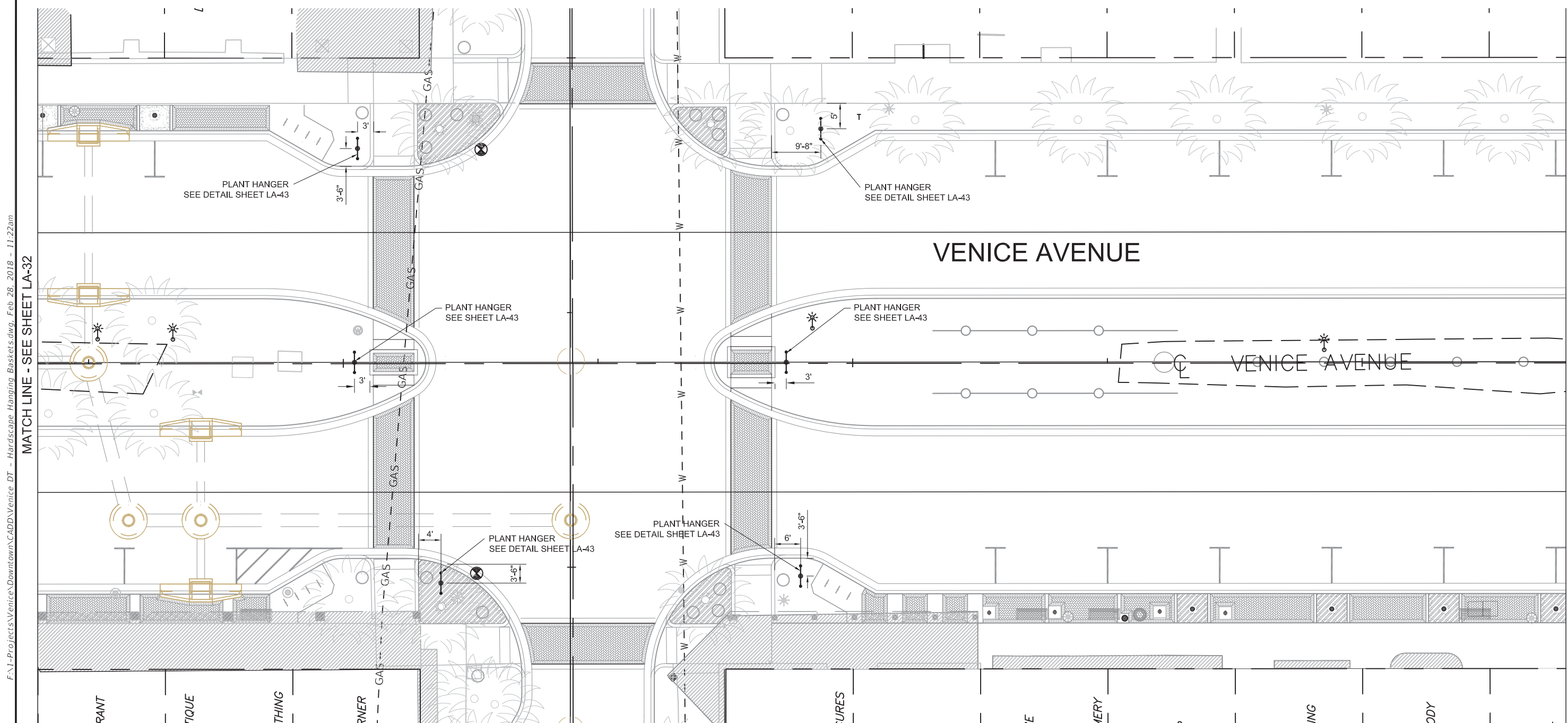
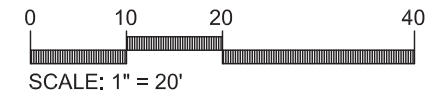
IVE OIL

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:21am




MATCH LINE - SEE SHEET LA-31

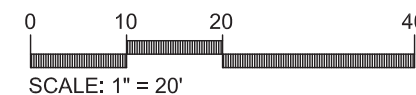
MATCH LINE - SEE SHEET LA-33

Page 1015 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-32
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						





F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:22am

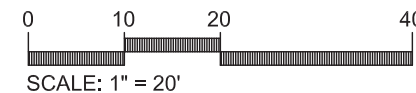
Page 1016 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY:  HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: _____ PROJECT NO.: 100054389 SHEET: LA-33
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



MATCH LINE - SEE SHEET LA-33

MATCH LINE - SEE SHEET 1 A-35

			DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-34
			DRAWN <u>JLK</u>						
			CHECKED <u>DL</u>						
Page 1017 of 1140									
REV. NO.	DATE	DESCRIPTION							



MATCH LINE - SEE SHEET LA-34

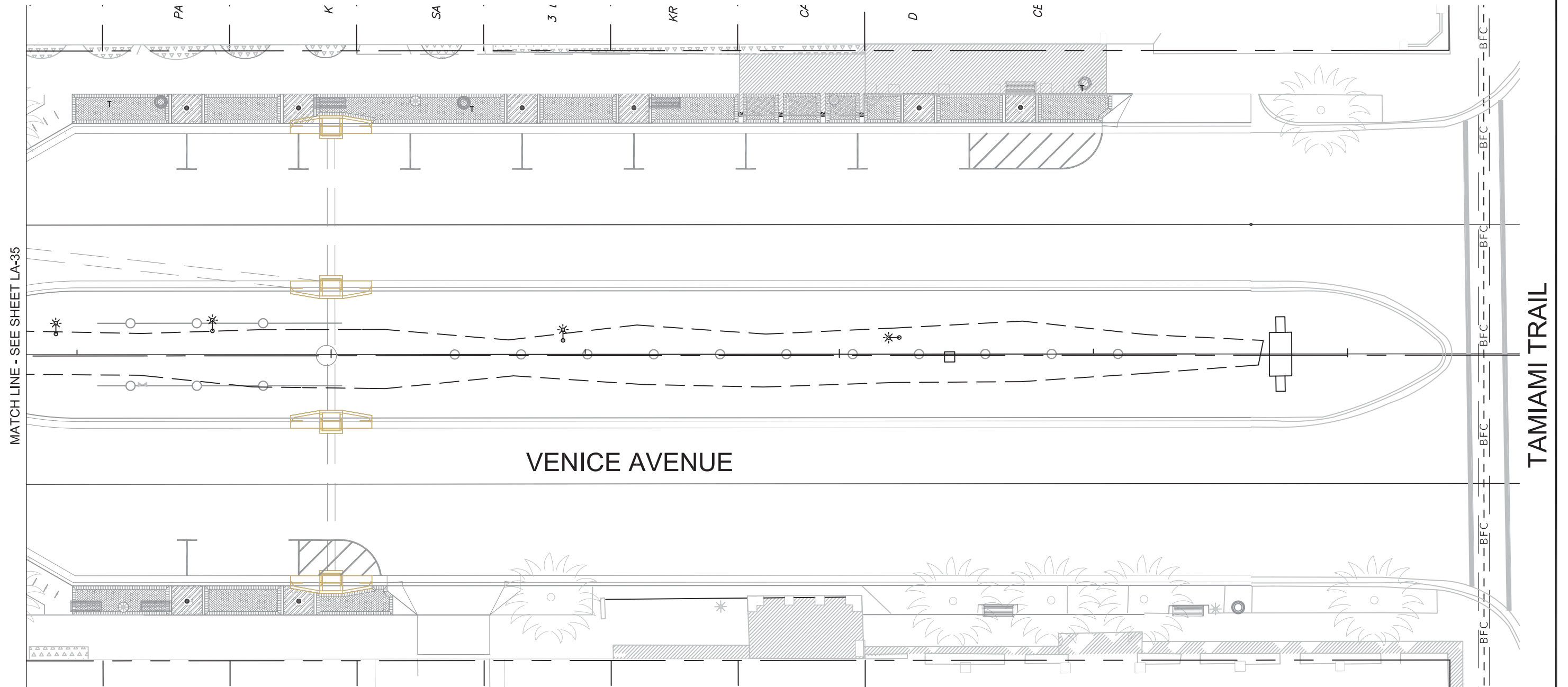
MATCH LINE - SEE SHEET 1A-36

[illegible]

NO HARDSCAPE THIS SHEET



SCALE: 1" = 20'



MIAMI | RAIL

F:\1-Projects\Venice\Downtown\CADD\Venice DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:22am

Page 1019 of 1140

REV. NO.	DATE	DESCRIPTION
----------	------	-------------

DESIGNED HLB

DRAWN JLK

CHECKED DL



PREPARED BY:



PROJECT:

CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

DESCRIPTION:	
--------------	--

PLANT HANGER
ALTERNATE
PLAN

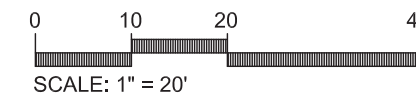
APPROVED BY:

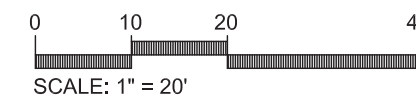
HARRY L. BELTON, RLA
FLA. REG. NO 900

DATE: _____

PROJECT NO.:
100054389

SHEET:
LA-36





SCALE: 1" = 20'

SCALE: 1" = 20'

SCALE: 1" = 20'

MATCH LINE - SEE SHEET LA-37

MATCH LINE - SEE SHEET LA-39

MIAMI AVENUE

PLANT HANGER
SEE SHEET LA-43

PLANT HANGER
SEE SHEET LA-43

Page 1021 of 1140

REV. NO.	DATE	DESCRIPTION
----------	------	-------------

DESIGNED HLB

DRAWN JLK

CHECKED DL



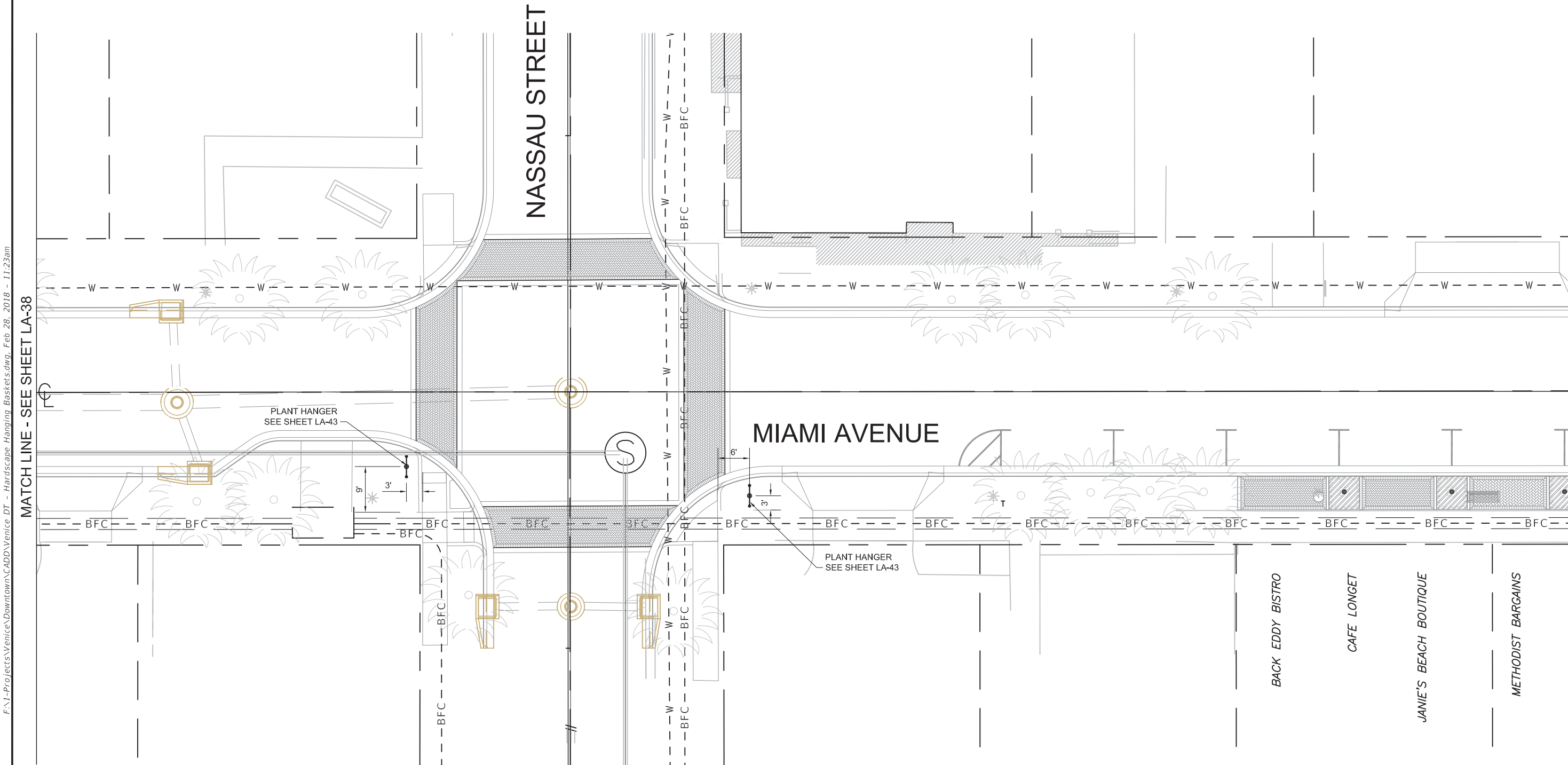
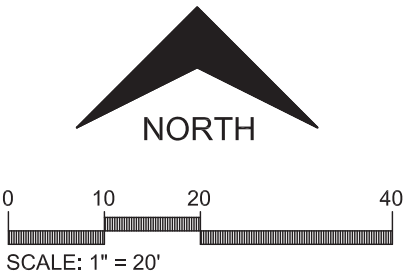
PROJECT: CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS



DESCRIPTION:
PLANT HANGER
ALTERNATE
PLAN

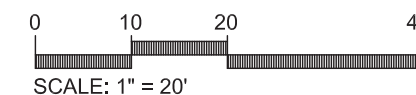
APPROVED BY:



HARRY L. BELTON, RLA
FLA. REG. NO 900

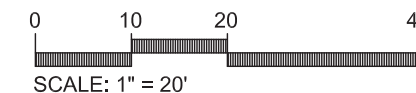
DATE: ----
PROJECT NO.: 100054389
SHEET: LA-38





Page 1022 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-39
REV. NO.	DATE	DESCRIPTION							
			DRAWN <u>JLK</u>						
			CHECKED <u>DL</u>						



				DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-40
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1023 of 1140 REV. NO. DATE DESCRIPTION										



			DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-41
Page 1024 of 1140 REV. NO. DATE DESCRIPTION			DRAWN <u>JLK</u> CHECKED <u>DL</u>						

NO HARDSCAPE THIS SHEET



SCALE: 1" = 20'

F:\1-Projects\Venice\Downtown\CADD\Venice DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:24am

MATCH LINE - SEE SHEET LA-41

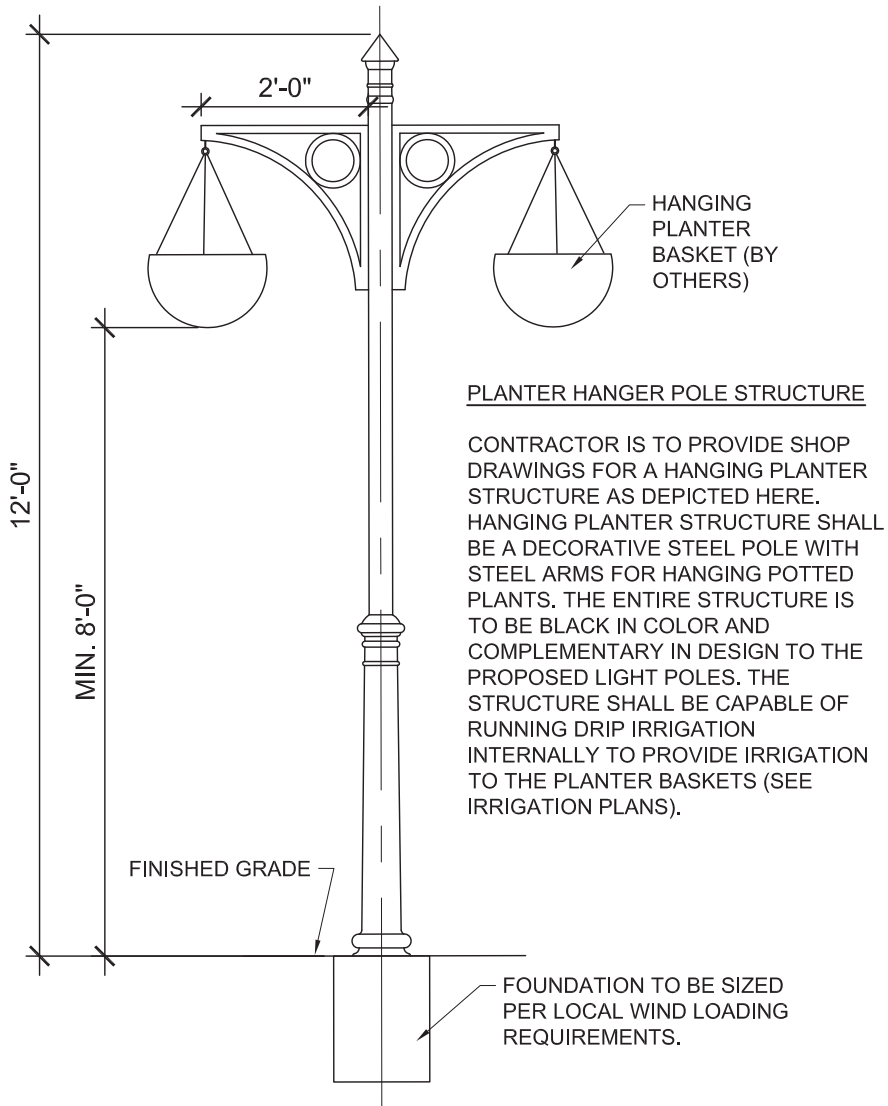
~~MIAMI AVENUE~~




MIAMI AVENUE

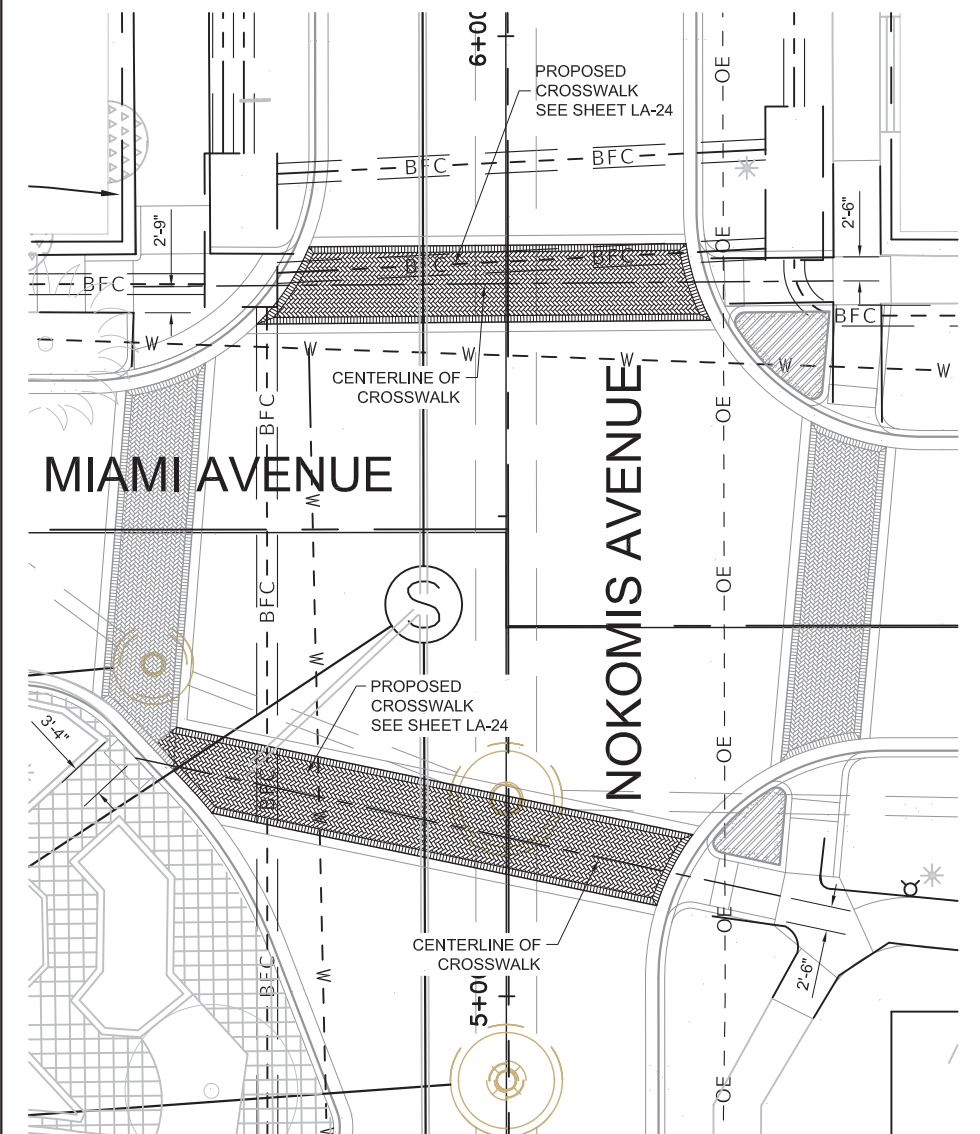
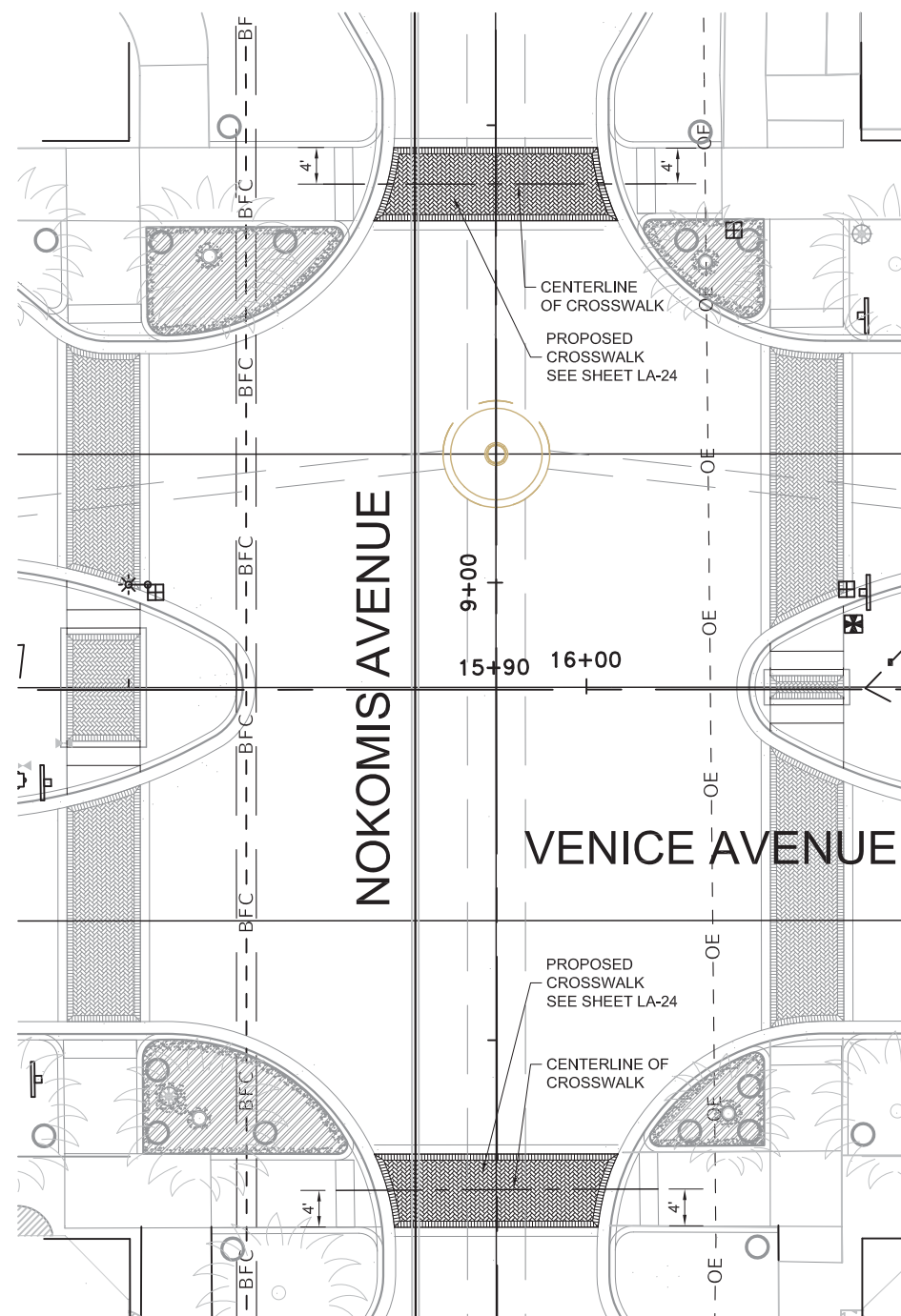
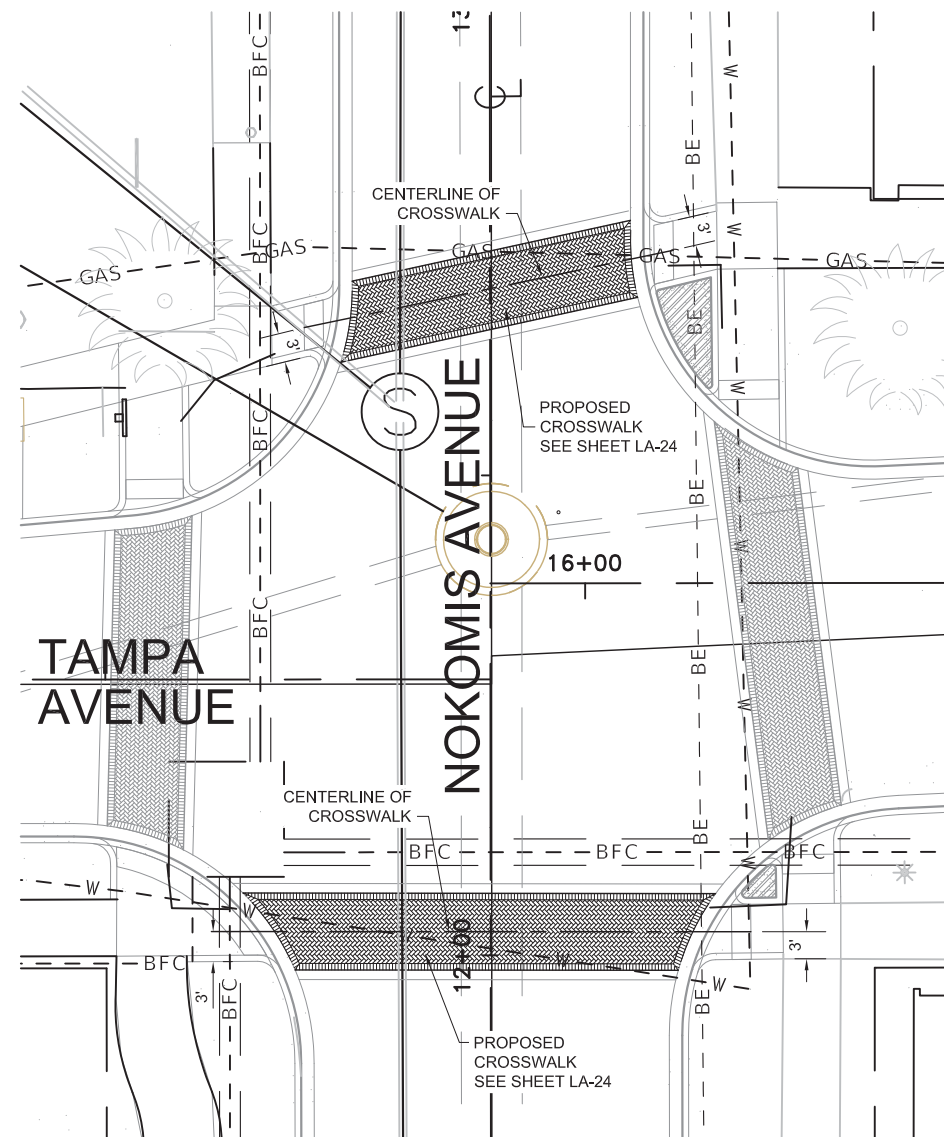
[illegible]

F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Hanging Baskets.dwg, Feb 28, 2018 - 11:25am

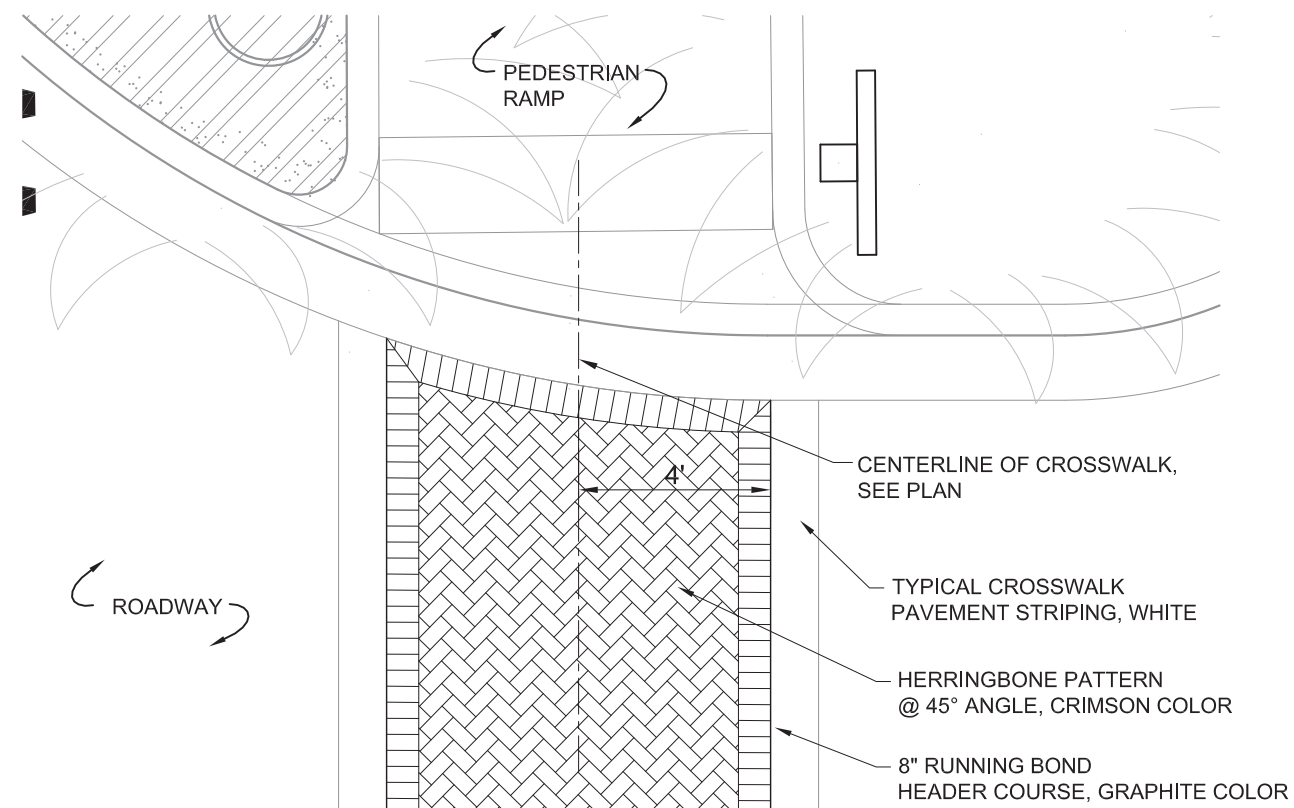
FURNISHINGS QUANTITIES					
PAY ITEM	DESCRIPTION	QUANTITIES			UNIT
		TAMPA	VENICE	MIAMI	
715-518-1	PLANT HANGERS	15	17	10	EA



	12/14/17	ADDED FENCE INFORMATION, MODIFIED QUANTITIES		DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATIVE DETAILS	APPROVED BY:  HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-43
Page 1026 of 1140	REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>						



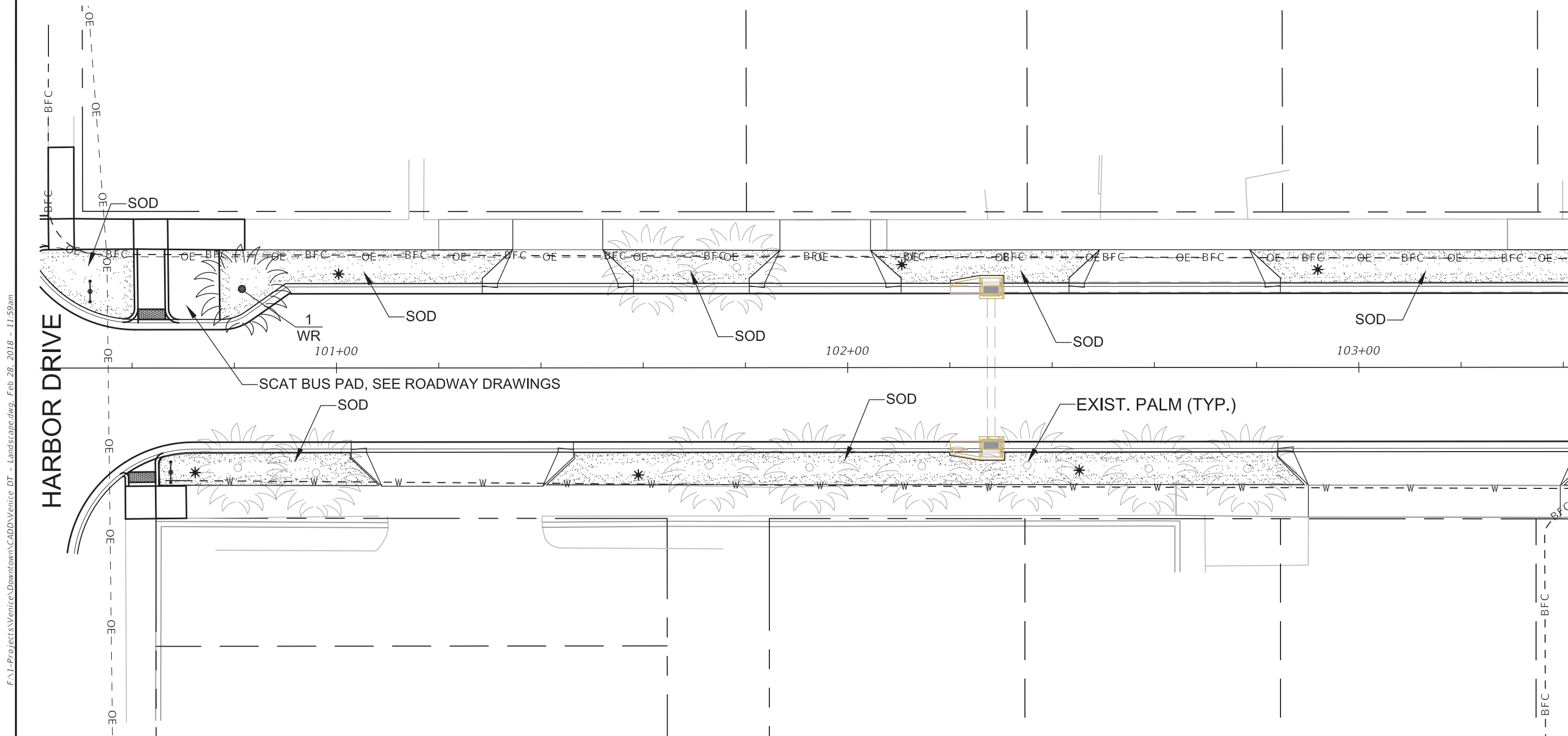
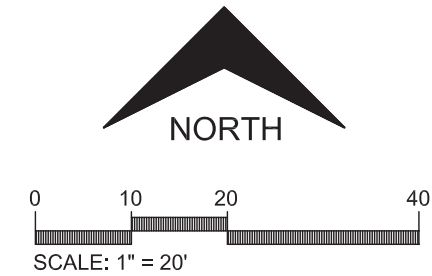
F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Hardscape Nokomis.dwg, Feb 28, 2018 - 2:40pm





NOTE:
CROSSWALK MATERIAL IS TO BE AN EPOXY APPLIED GRANULAR COATING USING A PATTERNED TEMPLATE AS OCCURRING ON THE F.D.O.T. APPROVED PRODUCTS LIST

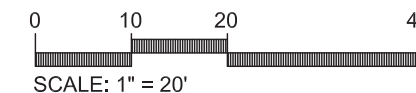
TYPICAL CROSSWALK LAYOUT

QUANTITIES					
PAY ITEM	DESCRIPTION	QUANTITIES			UNIT
		TAMPA	VENICE	MIAMI	
523-1	PATTERN PAVEMENT	67	43	86	SY





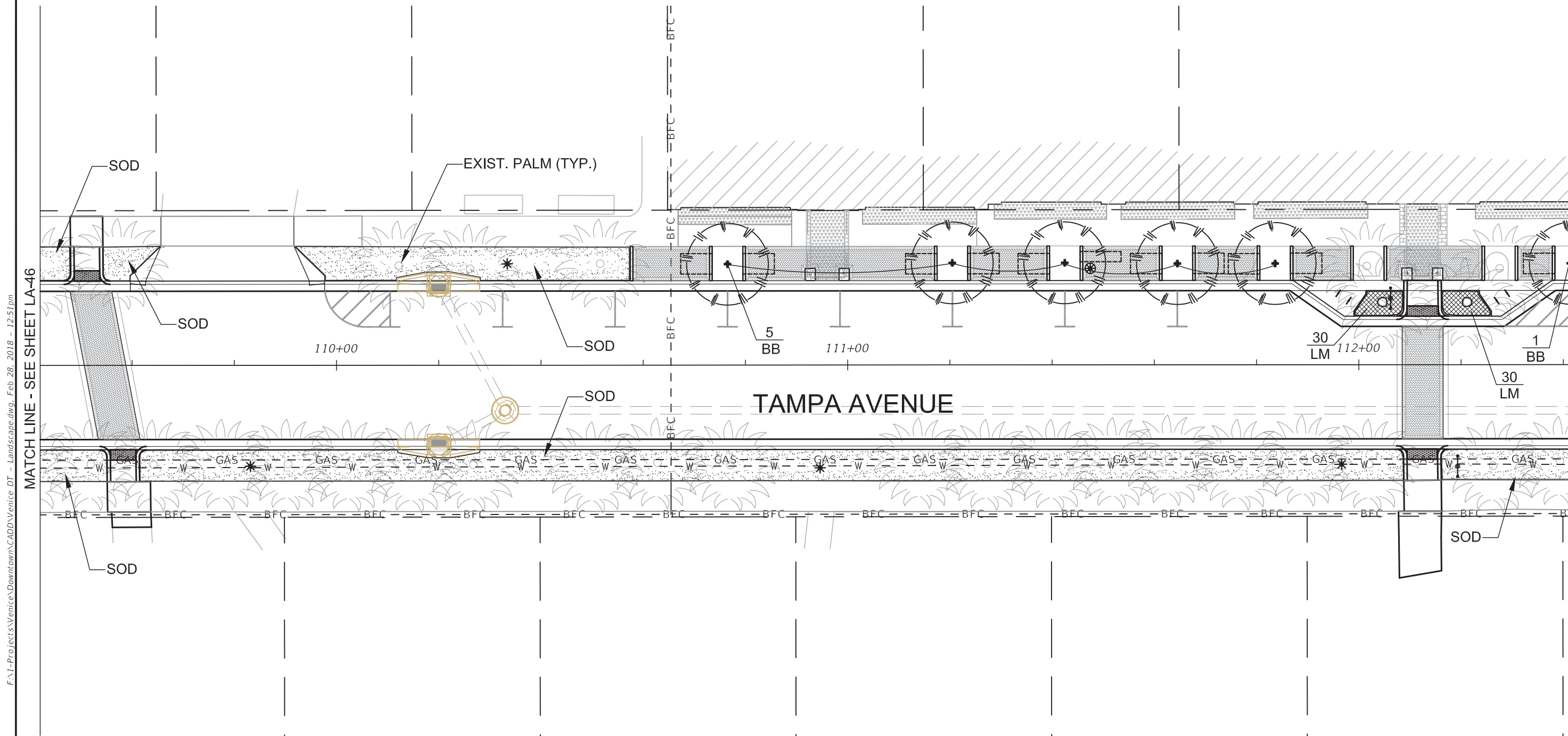
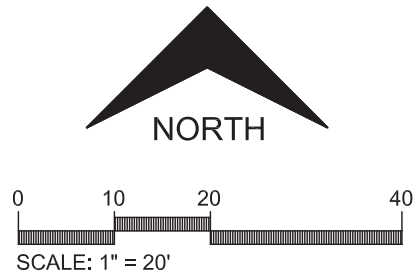
F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Landscape.dwg, Feb 28, 2018 - 11:59am

Page 1029 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: _____ PROJECT NO.: 100054389 SHEET: LA-44
REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>						





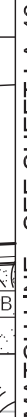
MATCH LINE - SEE SHEET LA-46



			DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-45
			DRAWN <u>JLK</u>						
			CHECKED <u>DL</u>						
Page 1030 of 1140 REV. NO. DATE DESCRIPTION									

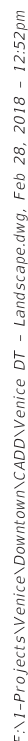
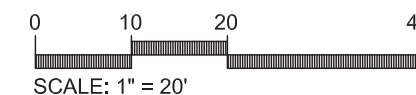




F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Landscape.dwg, Feb 28, 2018 - 12:51pm

Page 1032 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-47
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						





			DESIGNED <u>HLB</u>	PREPARED FOR:	PREPARED BY:	PROJECT:	DESCRIPTION:	APPROVED BY:	DATE:
			DRAWN <u>JKL</u>			CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	LANDSCAPE PLAN	HARRY L. BELTON, RLA FLA. REG. NO 900	---- PROJECT NO.: 100054389
Page 1033 of 1140 REV. NO. DATE DESCRIPTION			CHECKED <u>DL</u>						SHEET: LA-48




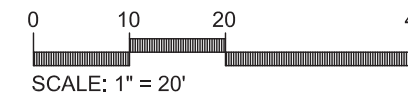
				DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900.	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-49
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1034 of 1140										
REV. NO.	DATE	DESCRIPTION								

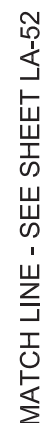
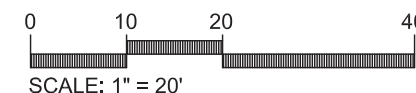


				DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-50
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1035 of 1140 REV. NO. DATE DESCRIPTION										

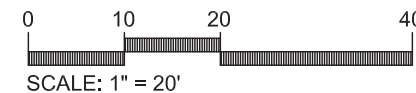


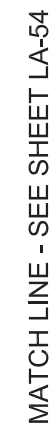
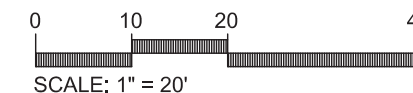
			DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-51
			DRAWN <u>JKL</u>						
			CHECKED <u>DL</u>						
Page 1036 of 1140 REV. NO. DATE DESCRIPTION									

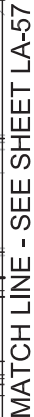


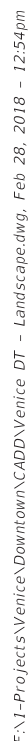
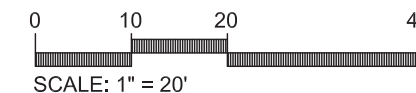


MATCH LINE - SEE SHEET A-54

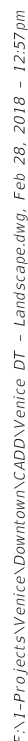
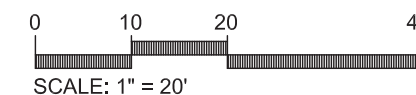







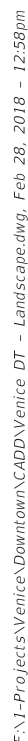
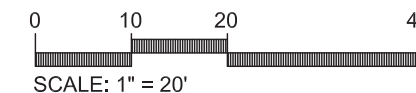
[illegible]

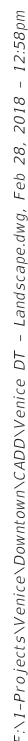
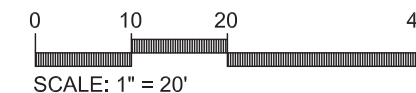




																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----



				DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY:  HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-59
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1044 of 1140										
REV. NO.	DATE	DESCRIPTION								

[illegible]



				DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: LANDSCAPE PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: LA-61
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1046 of 1140										
REV. NO.	DATE	DESCRIPTION								

F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Landscape.dwg, Feb 28, 2018 - 12:58pm

PLANT SCHEDULE							
KEY	SCIENTIFIC NAME	COMMON NAME	TAMPA AVE	VENICE AVE	MIAMI AVE	SIZE	REMARKS
	<u>PALMS</u>						
LD	LIVISTONA DECORA	RIBBON PALM	-	60	-	12' CLEAR TRUNK	MATCHED
RR	ROYSTONEA REGIA	ROYAL PALM	-	62	2	18' GREY WOOD	MATCHED
WR	WASHINGTONIA ROBUSTA	WASHINGTON PALM	13	5	4	18' CLEAR TRUNK	.
	<u>TREES</u>						
JI	JATROPHA INTEGERRIMA	JATROPHA	-	79	-	10' HT. x 5' SPR.	TREE TYPE
QV	QUERCUS VIRGINIANA	LIVE OAK	2	12	4	14' HT. x 6' SPR.	2 1/2" CALIPER MIN.
TI	TABEBUIA IPETIGINOSA	PURPLE TABEBUIA	-	38	4	12' HT. x 6' SPR.	2" CALIPER MIN.
BB	BUCIDA BUCERAS 'SHADY LADY'	SHADY LADY BLACK OLIVE	16	44	19	12' HT. x 6' SPR.	2" CALIPER MIN.
	<u>SHRUBS</u>						
AA	AGAPANTHUS AFRICANUS	NILE LILY	-	548	-	18" HT. x 18" SPR.	24" O.C.
CVM	CODIAEUM VARIEGATUM 'MAMMEY'	MAMMEY CROTONS	10	88	10	16" HT. x 12" SPR.	18" O.C.
HSP	HIBISCUS 'SEMINOLE PINK'	SEMINOLE PINK HIBISCUS	-	100	-	36" HT. x 18" SPR.	60" O.C.
PA	PLUMBAGO AURICULATA	LEADWORT	-	100	-	16" HT. x 16" SPR.	18" O.C.
PX	PHILODENDRON X. 'XANADU'	XANADU PHILODENDRON	-	284	-	24" HT. x 24" SPR.	36" O.C.
	<u>GROUND COVERS</u>						
LM	LIRIOPE MUSCARI	LILY TURF	95	1420	270	8" SPR., 1 GALLON	12" O.C.
NF	NEOREGELIA 'FIREBALL'	FIREBALL BROMELIAD	-	814	-	8" HT. x 8" SPR.	12" O.C.
SA	...(VARIES PER SEASON)...	SEASONAL ANNUALS	-	532	-	4" POTS	12" O.C.
	<u>TURF</u>						
	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE FLORITAM	1,716	3,170	1,669	SQUARE YARDS	
	<u>SOIL</u>						
		TOP SOIL	-	1,220	-	CUBIC YARDS	
		DAZOMET, OR EQUAL	-	415	-	POUNDS	SOIL STERILIZER TREATMENT

LANDSCAPE NOTES

1. ALL PLANTING TO CONFORM TO ALL APPLICABLE LAWS OF THE CITY OF VENICE.

2. ABOVE AND BELOW GRADE UTILITY LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK. IF UTILITY CONFLICTS BECOME EVIDENT, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR ANY NECESSARY ADJUSTMENTS. WHEN WORKING IN AREAS WHERE UTILITIES ARE KNOWN TO EXIST, UTILITY LOCATIONS MAY NEED TO STAKED BY A SURVEYOR OR UTILITY COMPANY. THE CONTRACTOR HAS THE OPTION TO CALL 'SUNSHINE ONE CALL' AT 1-800-432-4770 TO SCHEDULE LOCATION OF UTILITIES THAT SUBSCRIBE TO THEIR SERVICE.

3. ALL PLANT MATERIAL SHALL BE IN OPTIMUM CONDITION, FREE OF ALL INSECTS AND DISEASE, AND SHALL BE EQUAL OR SUPERIOR TO FLORIDA #1 PER THE STATE OF FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.

4. PLANTING BACKFILL MIX SHALL BE 4 PARTS NATIVE SOIL FROM EXCAVATION AND 1 PART PEAT OR OTHER APPROVED COMPOST MIX.

5. APPLY AN 8-10-10 FERTILIZER WITH MINOR ELEMENTS TO ALL NEW PLANTING AT THE RATE RECOMMENDED BY THE MANUFACTURER. SUBMIT PROPOSED FERTILIZER FOR APPROVAL BEFORE APPLICATION.

6. IT WILL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO INSURE THAT ALL NEW PLANTING RECEIVE ADEQUATE WATER DURING INSTALLATION AND THROUGHOUT THE PLANT WARRANTEE PERIODS. DEEP WATERING OF ALL NEW PLANTS AND ANY SUPPLEMENTARY WATERING THAT MAY BE REQUIRED TO AUGMENT NATURAL RAINFALL OR SITE IRRIGATION IS MANDATORY TO INSURE PROPER PLANT DEVELOPMENT AND SHALL BE PROVIDED AS PART OF THIS CONTRACT.
7. IF REQUIRED, PRUNING OF EXISTING TREES AS FIELD DIRECTED BY OWNER'S REPRESENTATIVE SHALL BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST IN THE FIELD.

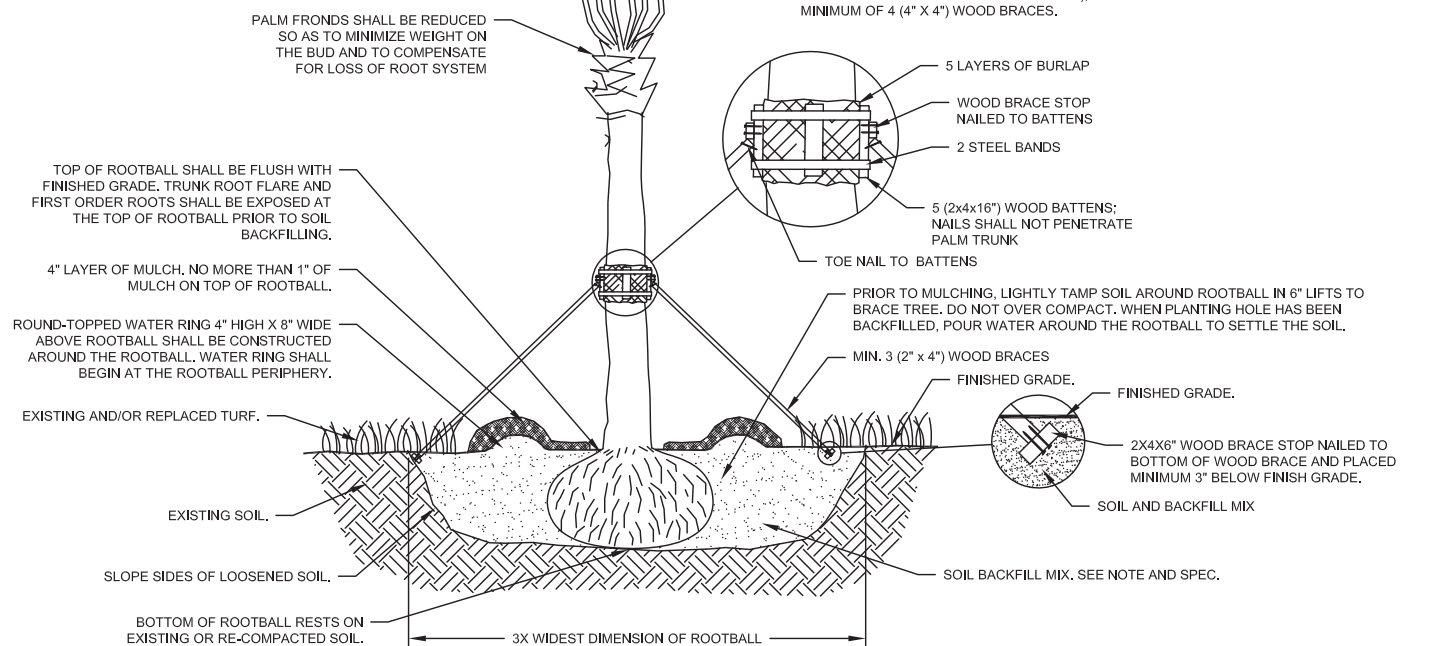
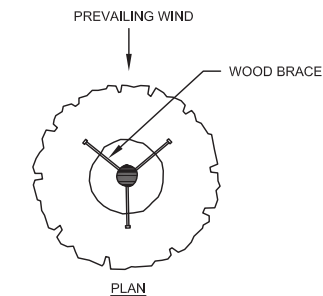
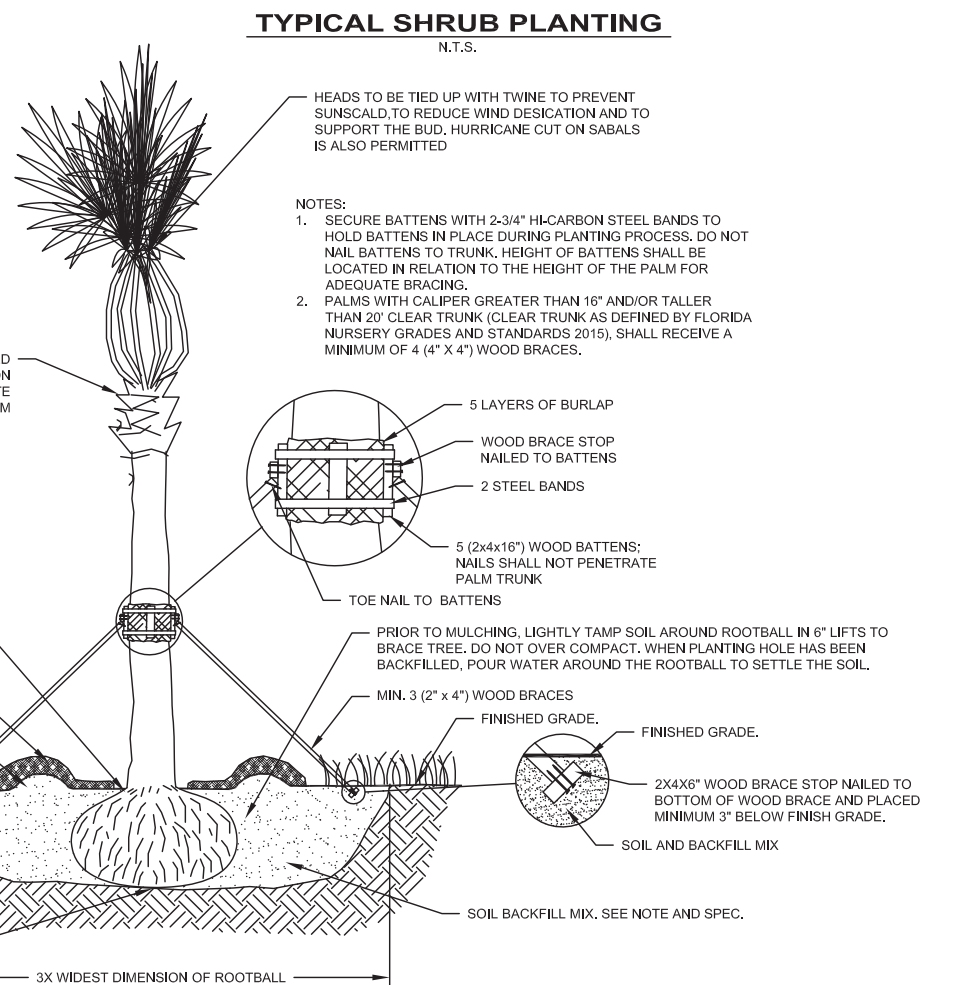
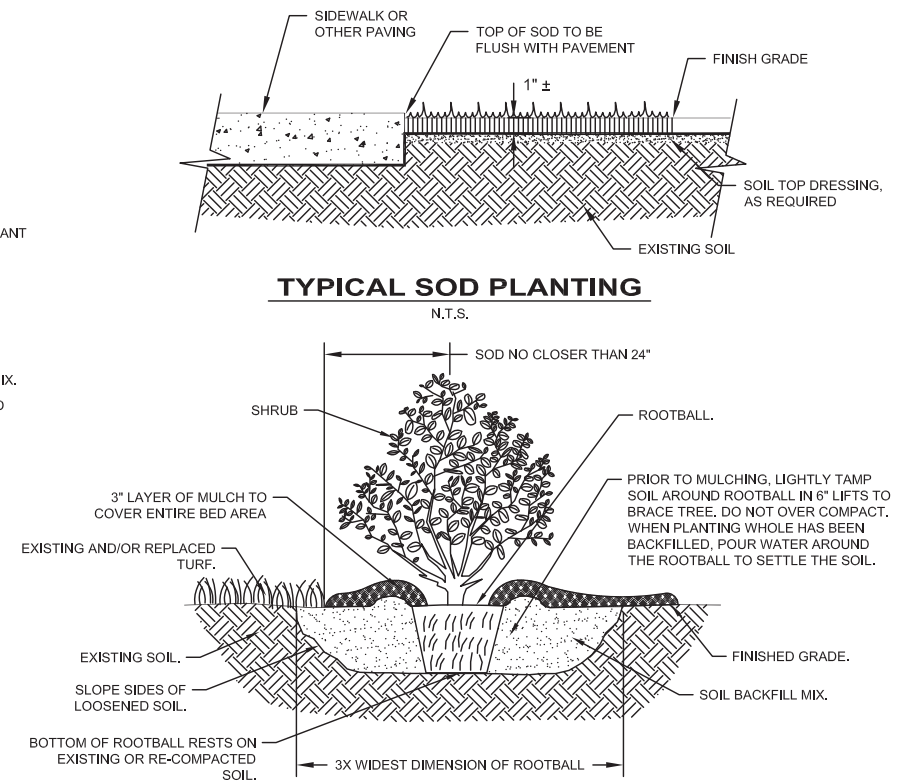
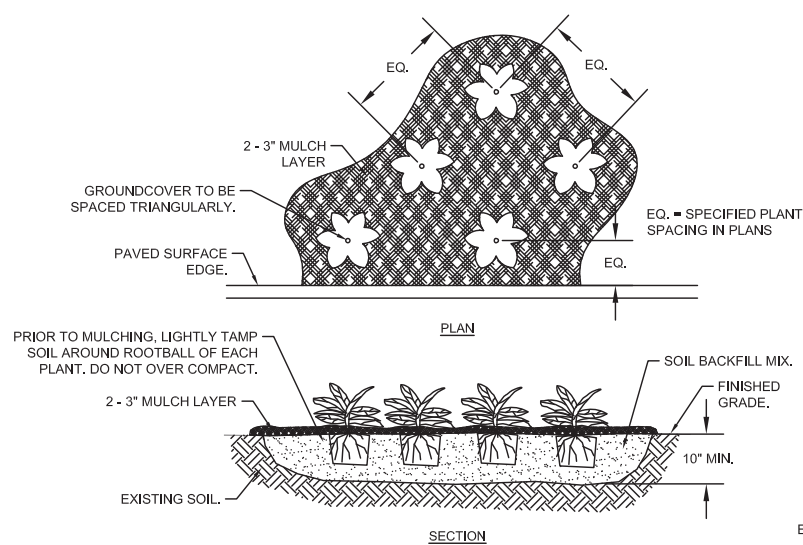
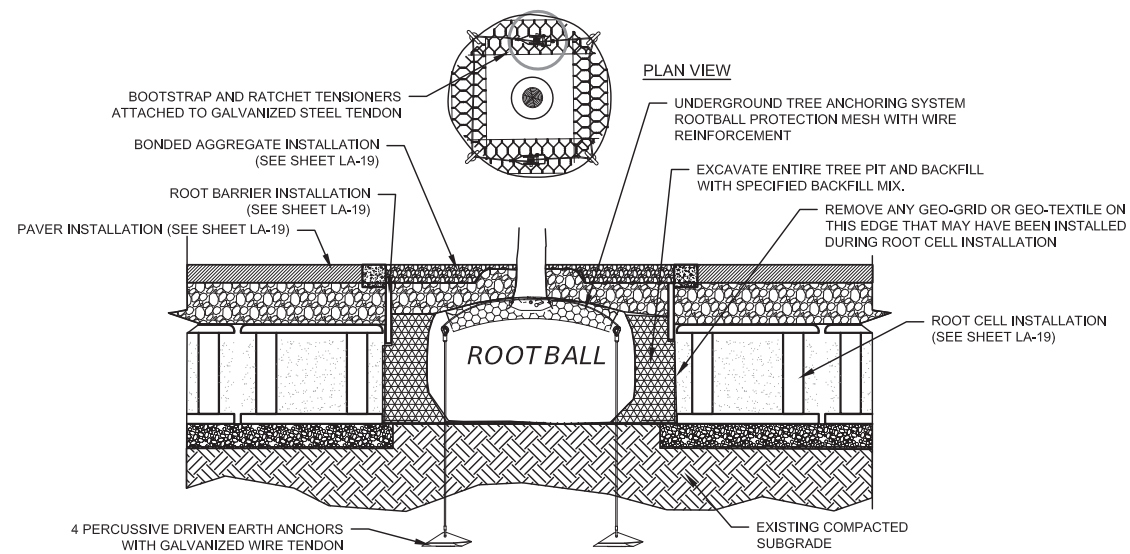
8. LANDSCAPE CONTRACTOR SHALL REPAIR, RELOCATE AND/OR REPLACE ANY DAMAGED OR REMOVED LANDSCAPE AFFECTED BY CONSTRUCTION NOT DELINEATED ON THE DEMOLITION PLANS. CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO ANY REMEDIATION LANDSCAPE EFFORTS.

9. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY QUANTITY DISCREPANCIES BETWEEN SCHEDULE AND PLAN PRIOR TO CONSTRUCTION.

10. SOD TO INCLUDE ALL DISTURBED AREAS THAT ARE NOT TO RECEIVE LANDSCAPE OR HARDSCAPE. CONTRACTOR SHALL CONFIRM SOD QUANTITY PRIOR TO BID.

11. PLANT MATERIAL SHALL MEET OR EXCEED ALL SPECIFICATIONS REGARDING SIZING. IT MAY BE NECESSARY TO EXCEED SOME OF THE SPECIFICATIONS TO MEET THE MINIMUM REQUIREMENTS OF OTHERS.

12. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TOP 24" OF EXISTING TOP SOIL IN THE MEDIAN FROM NASSAU STREET TO NOKOMIS AVENUE ON VENICE AVENUE. PROVIDE NEW TOPSOIL MEETING FDOT SPECIFICATION SECTION 987, "SOIL LAYER MATERIALS". PROVIDE SOIL STERILIZATION TREATMENT WITH DAZOMET, OR APPROVED EQUAL, PER MANUFACTURER RECOMMENDATIONS PRIOR TO INSTALLING NEW SOIL IN THE MEDIAN.



REV. NO.	DATE	DESCRIPTION
----------	------	-------------

DESIGNED	<u>HLB</u>
DRAWN	<u>JLK</u>
CHECKED	<u>DL</u>



PROJECT: CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

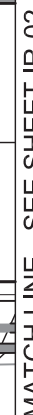
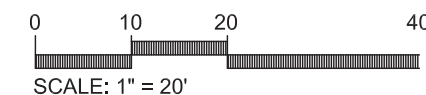
DESCRIPTION:

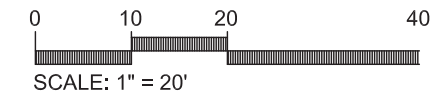
LANDSCAPE DETAILS

APPROVED BY:

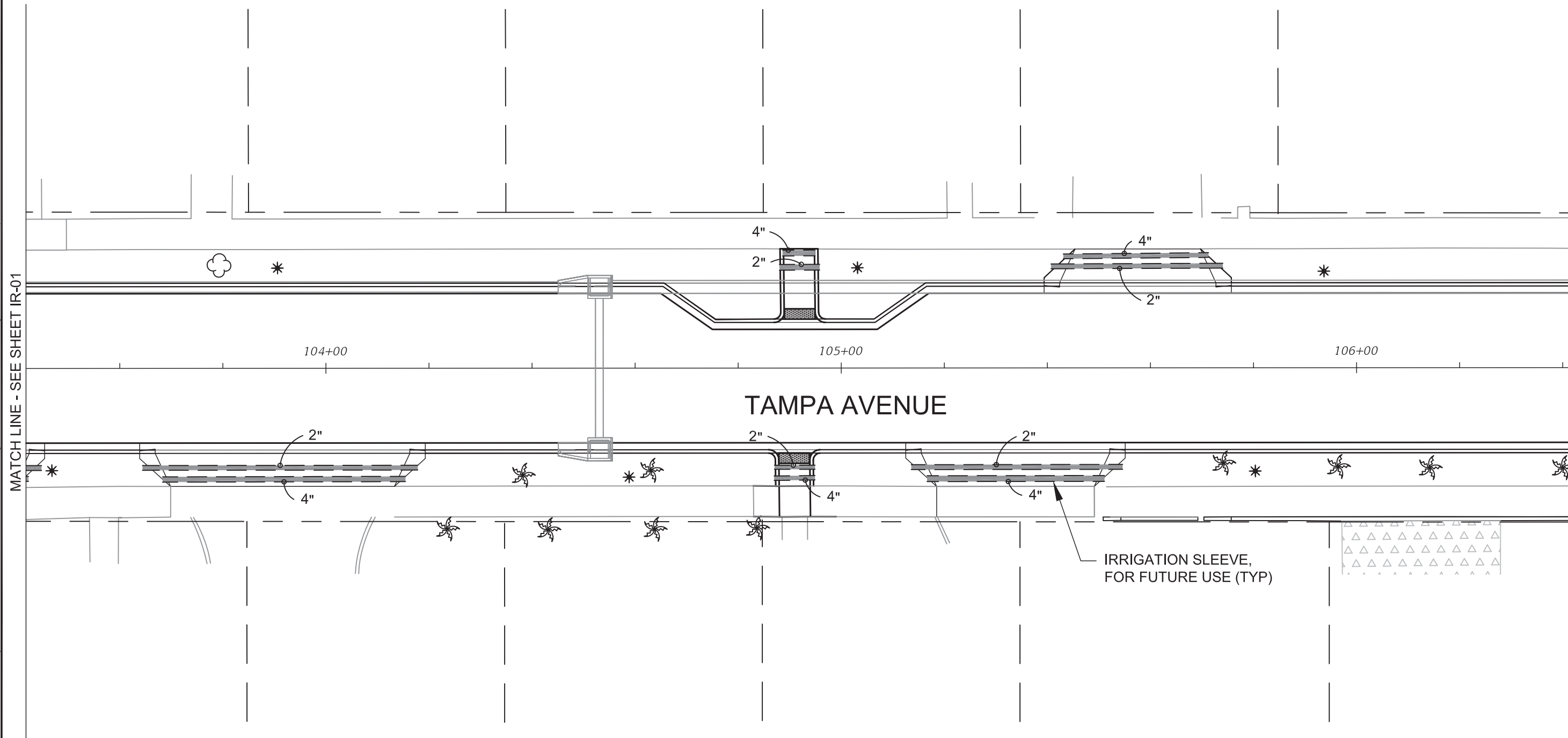
HARRY L. BELTON, RLA
FLA. REG. NO 900



DATE: ----
PROJECT NO.: 100054389
SHEET: LA-63



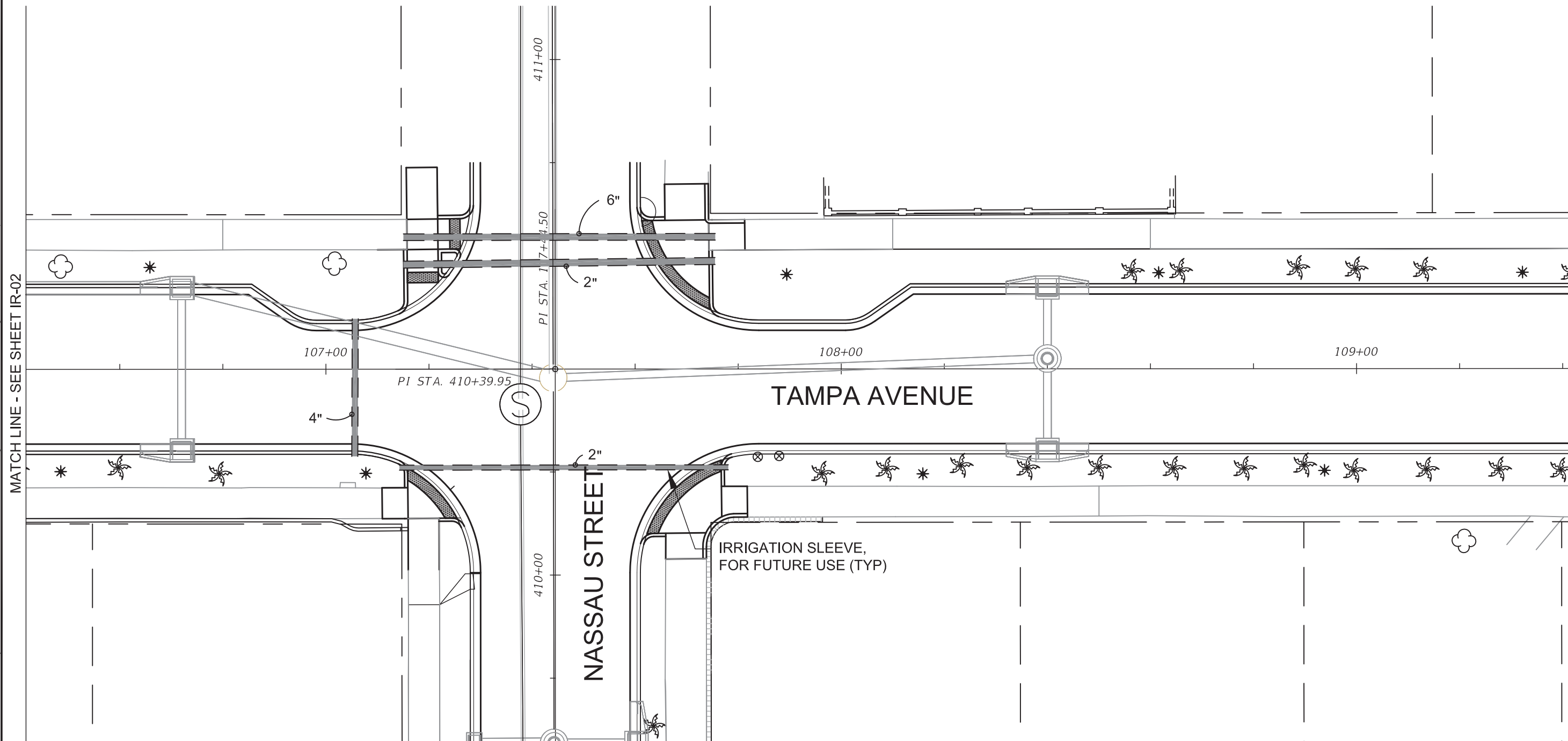
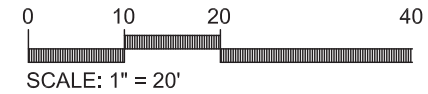




F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:31pm

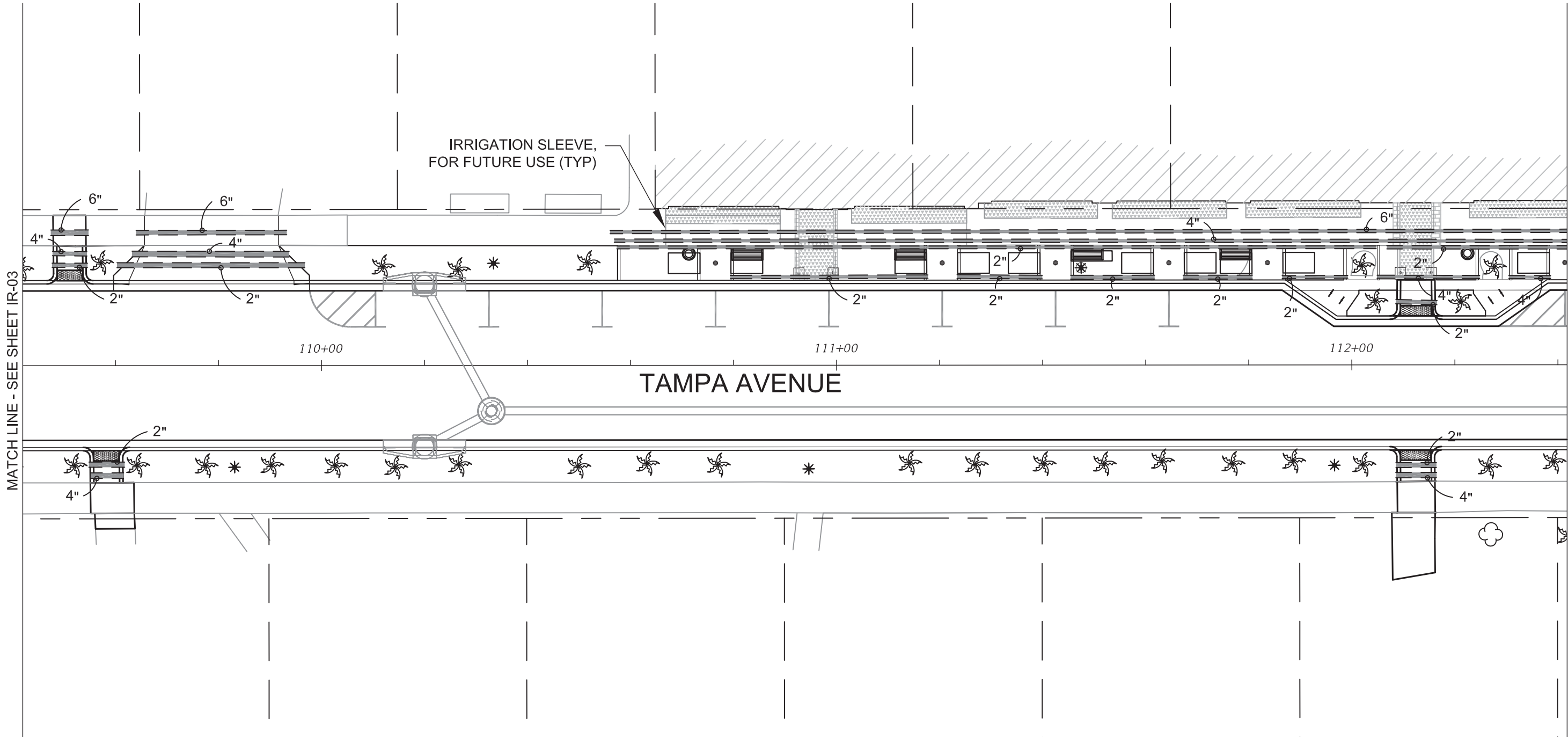
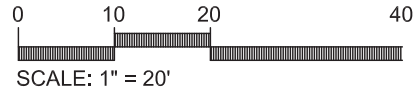


Page 1050 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-02
REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>						



F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:39pm

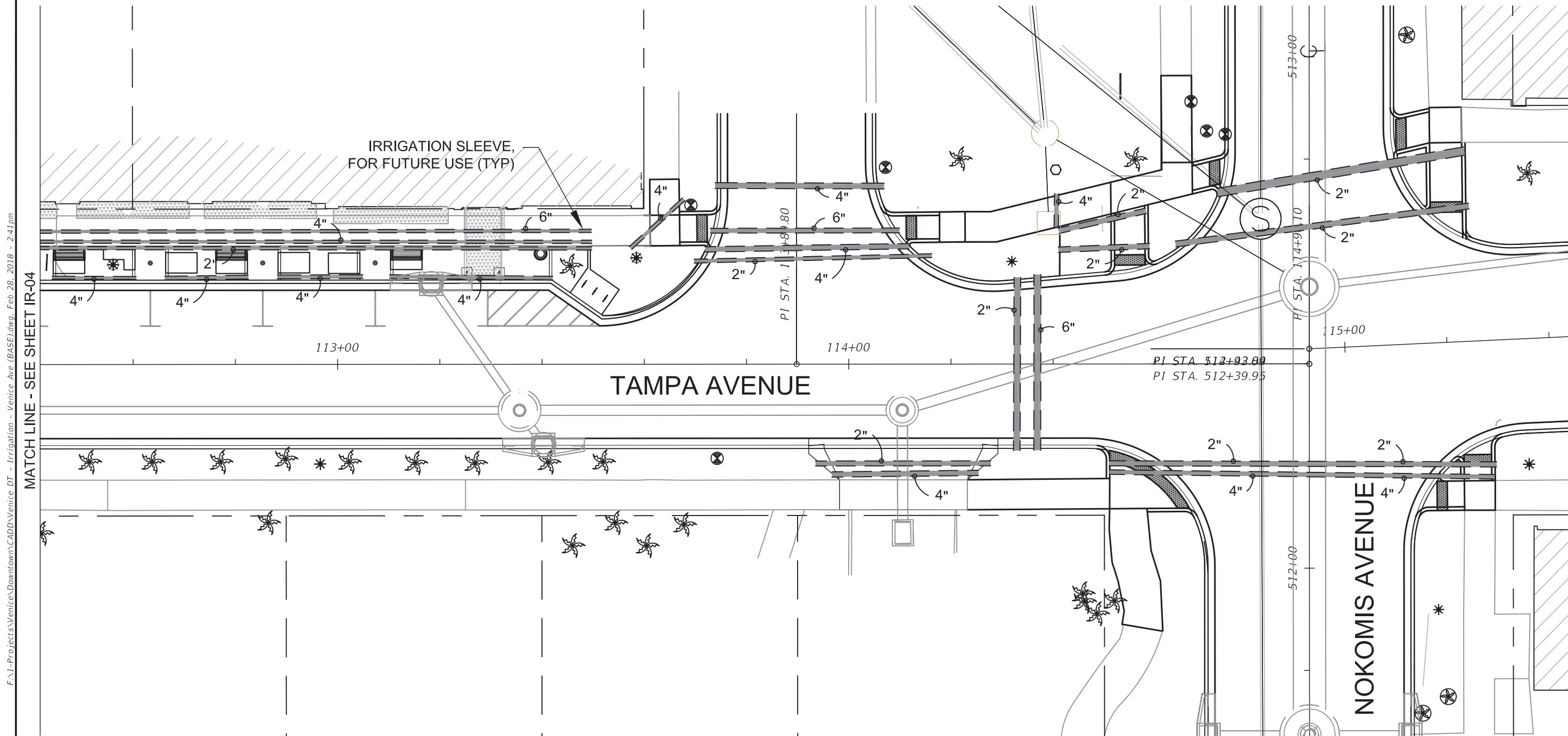
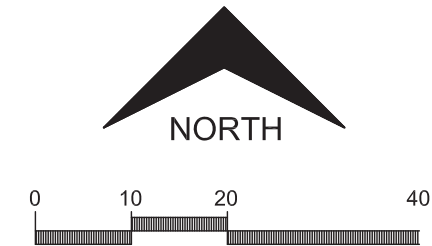


Page 1051 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-03
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						





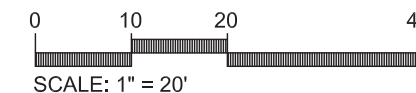
F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:40pm

Page 1052 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: _____ PROJECT NO.: 100054389 SHEET: IR-04
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

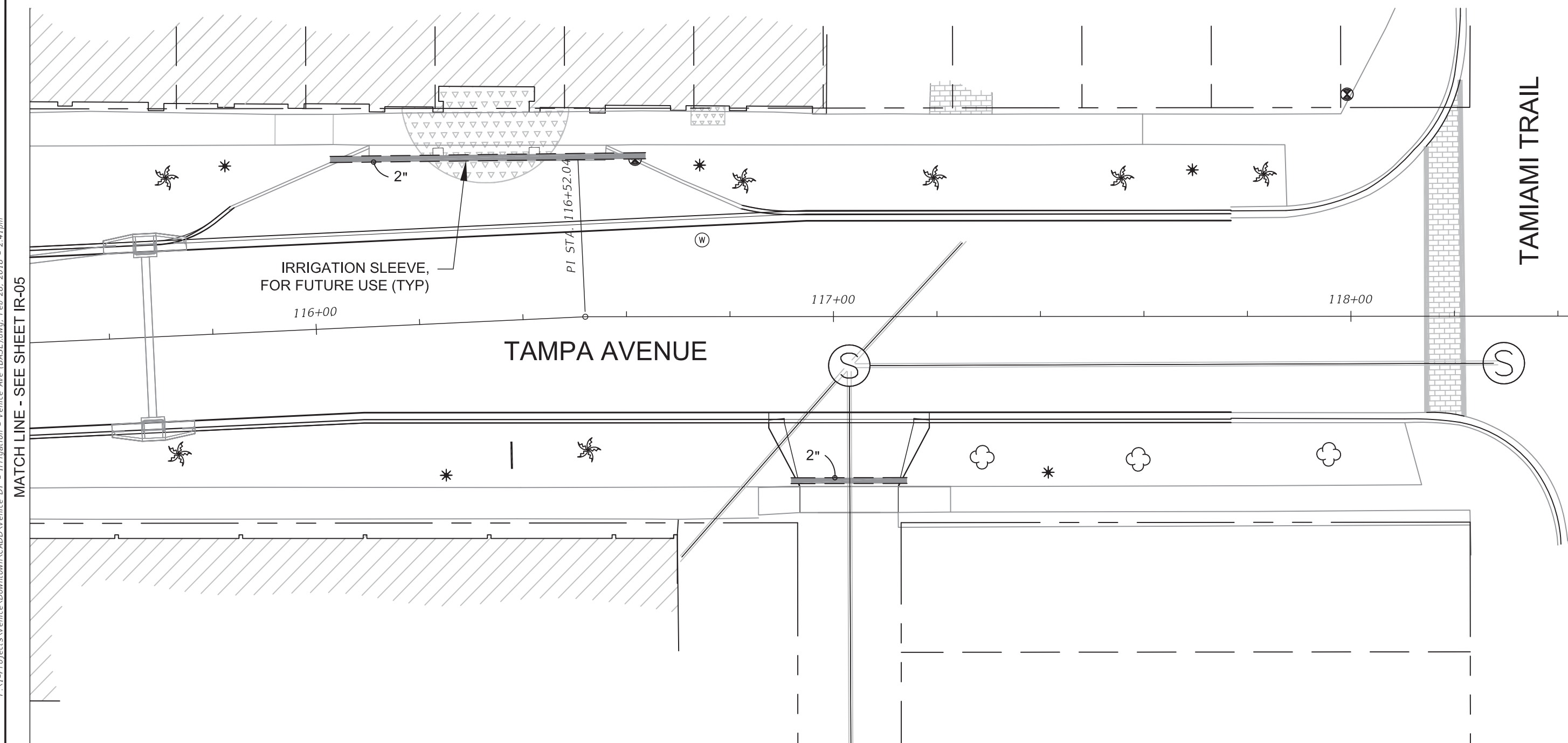


F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:41 pm



Page 1053 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: _____ PROJECT NO.: 100054389 SHEET: IR-05
REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>						

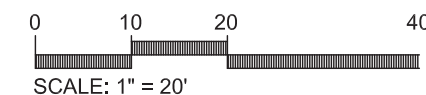


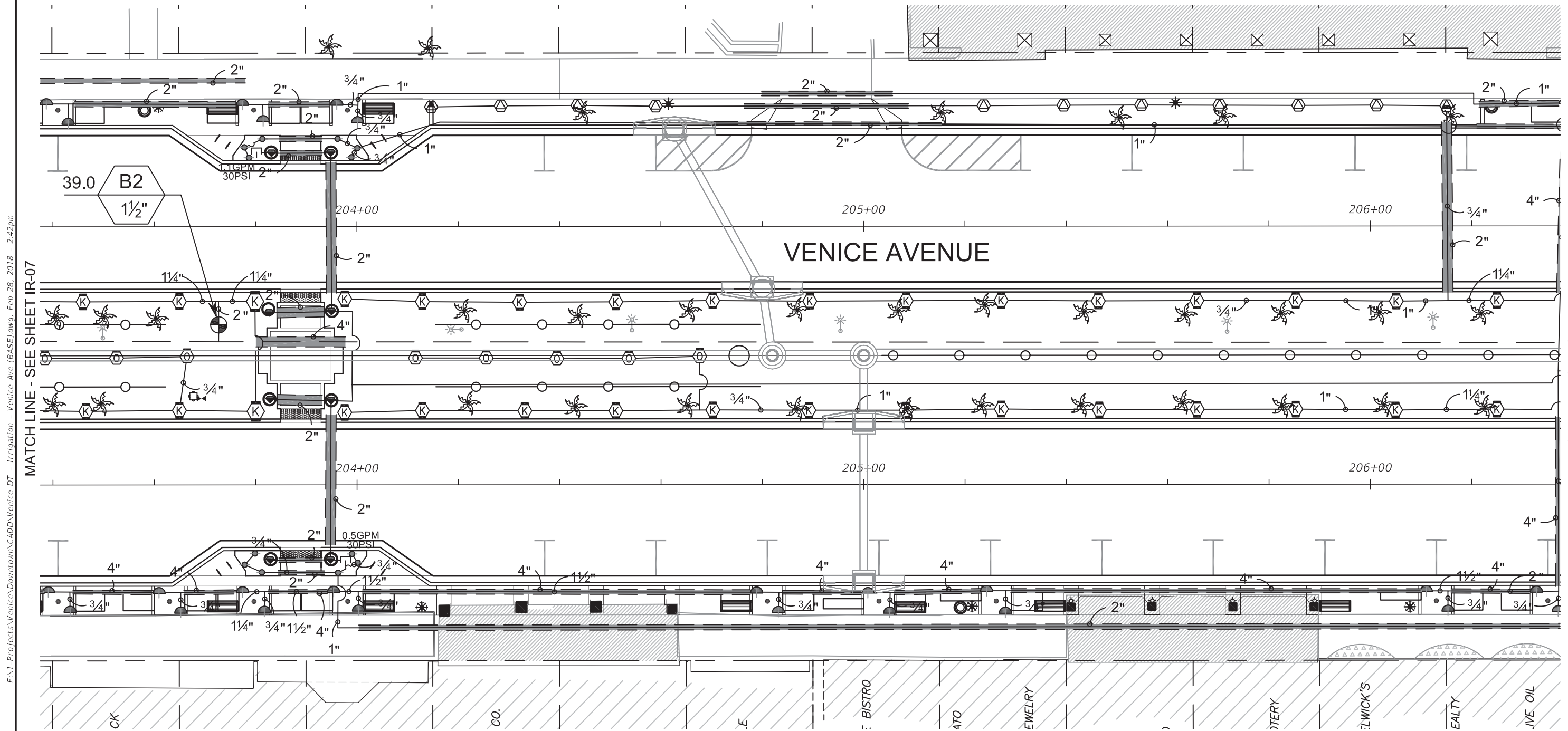
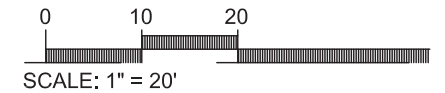
TAMIAMI TRAIL

[illegible]



MATCH LINE - SEE SHEET IR-05

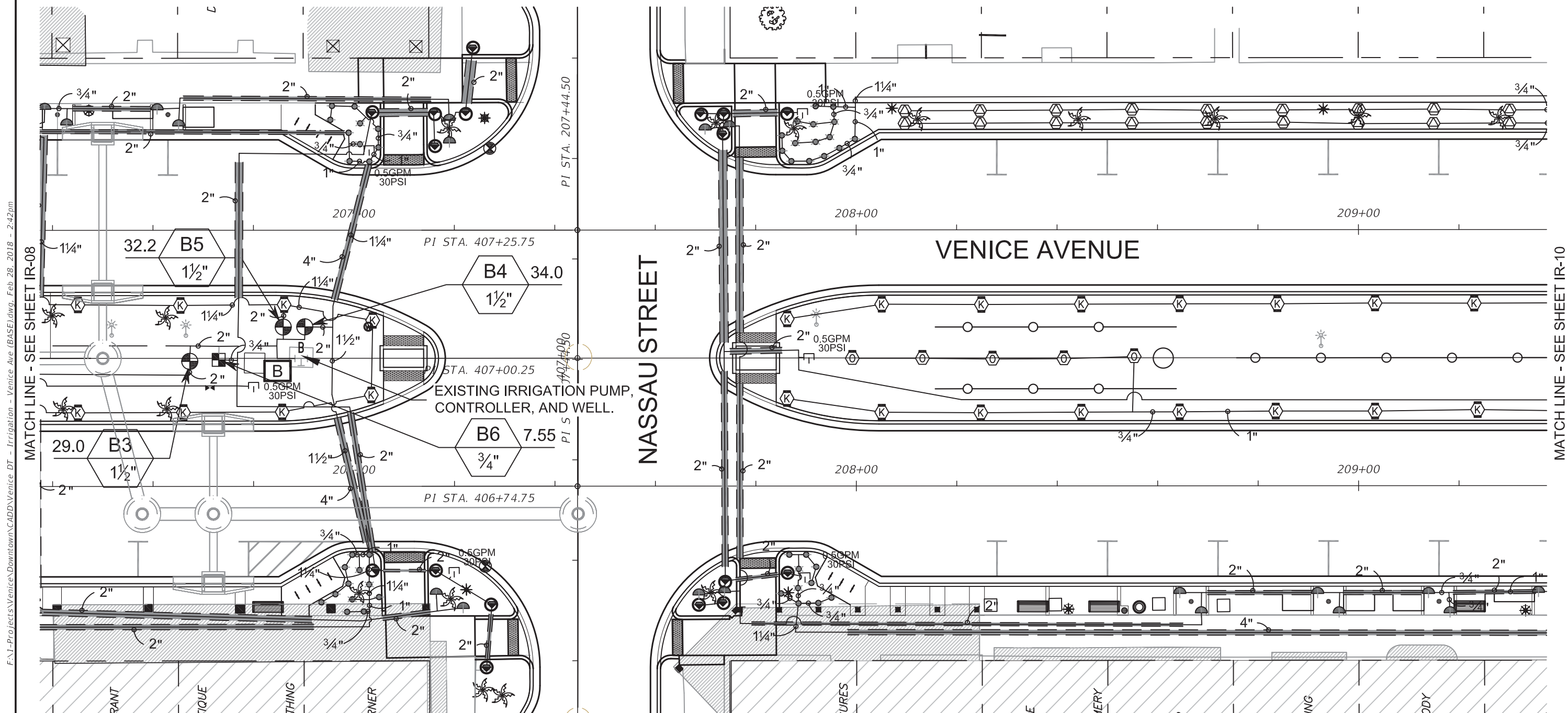
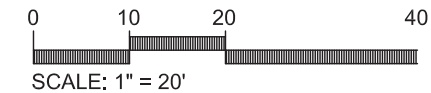
				DESIGNED <u>HLB</u>		PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: _____ PROJECT NO.: 100054389 SHEET: IR-06
				DRAWN <u>JLK</u>						
				CHECKED <u>DL</u>						
Page 1054 of 1140 REV. NO. DATE DESCRIPTION										







F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:42pm

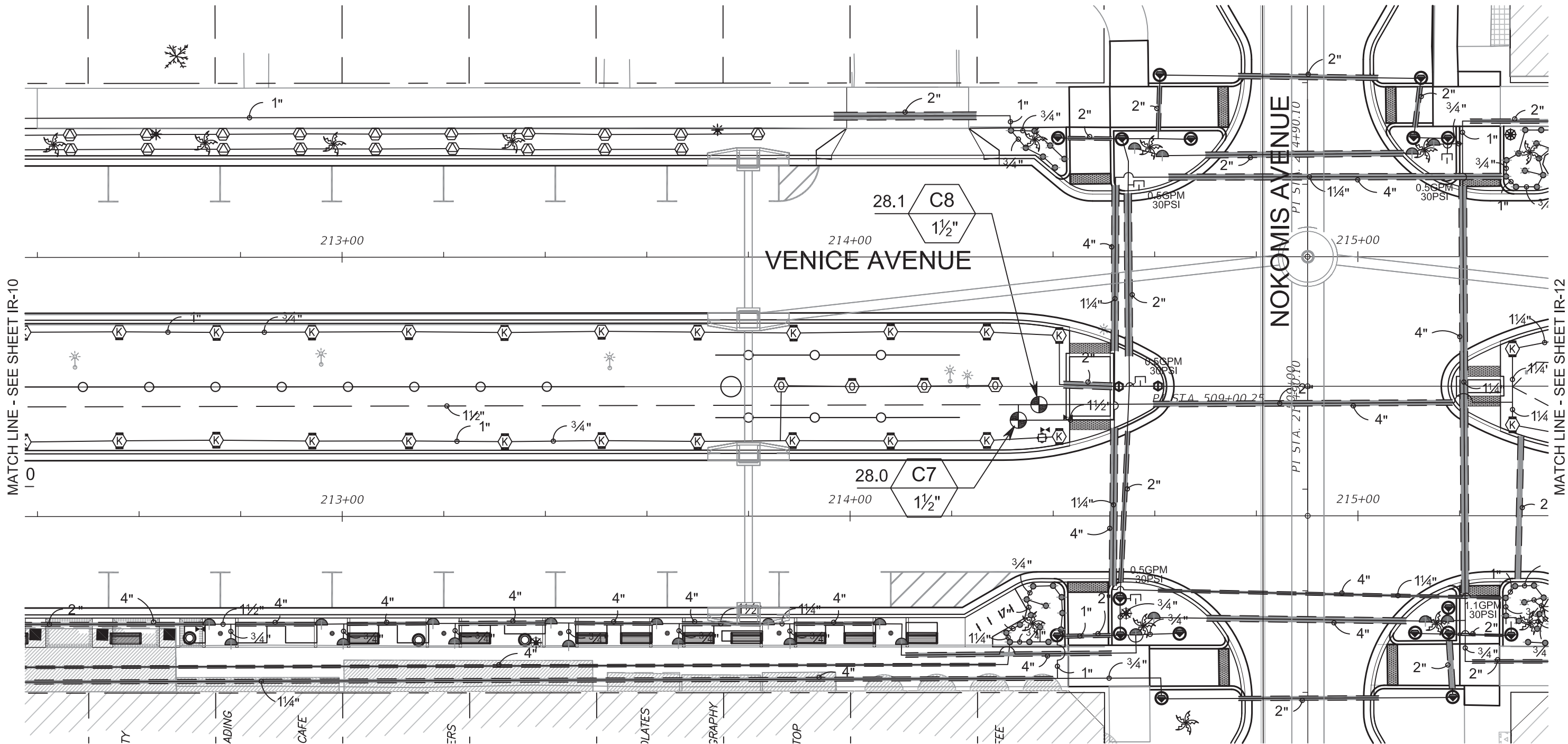
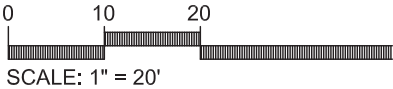
Page 1056 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-08
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



F:\Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:42pm

Page 1057 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-09
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						





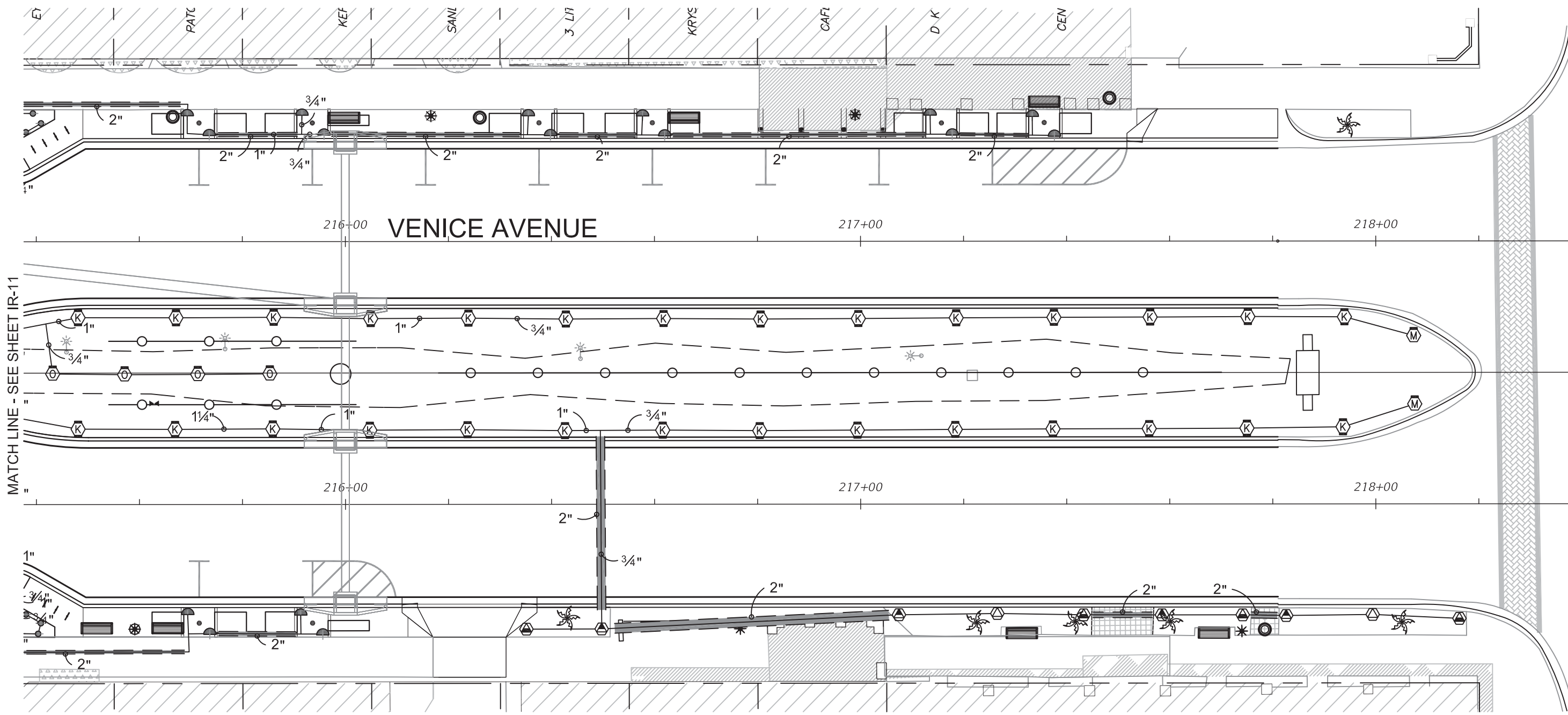
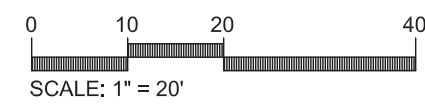


F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:43pm



MATCH LINE - SEE SHEET IR-10

MATCH LINE - SEE SHEET IR-12

Page 1059 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: _____ PROJECT NO.: 100054389 SHEET: IR-11
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:44pm

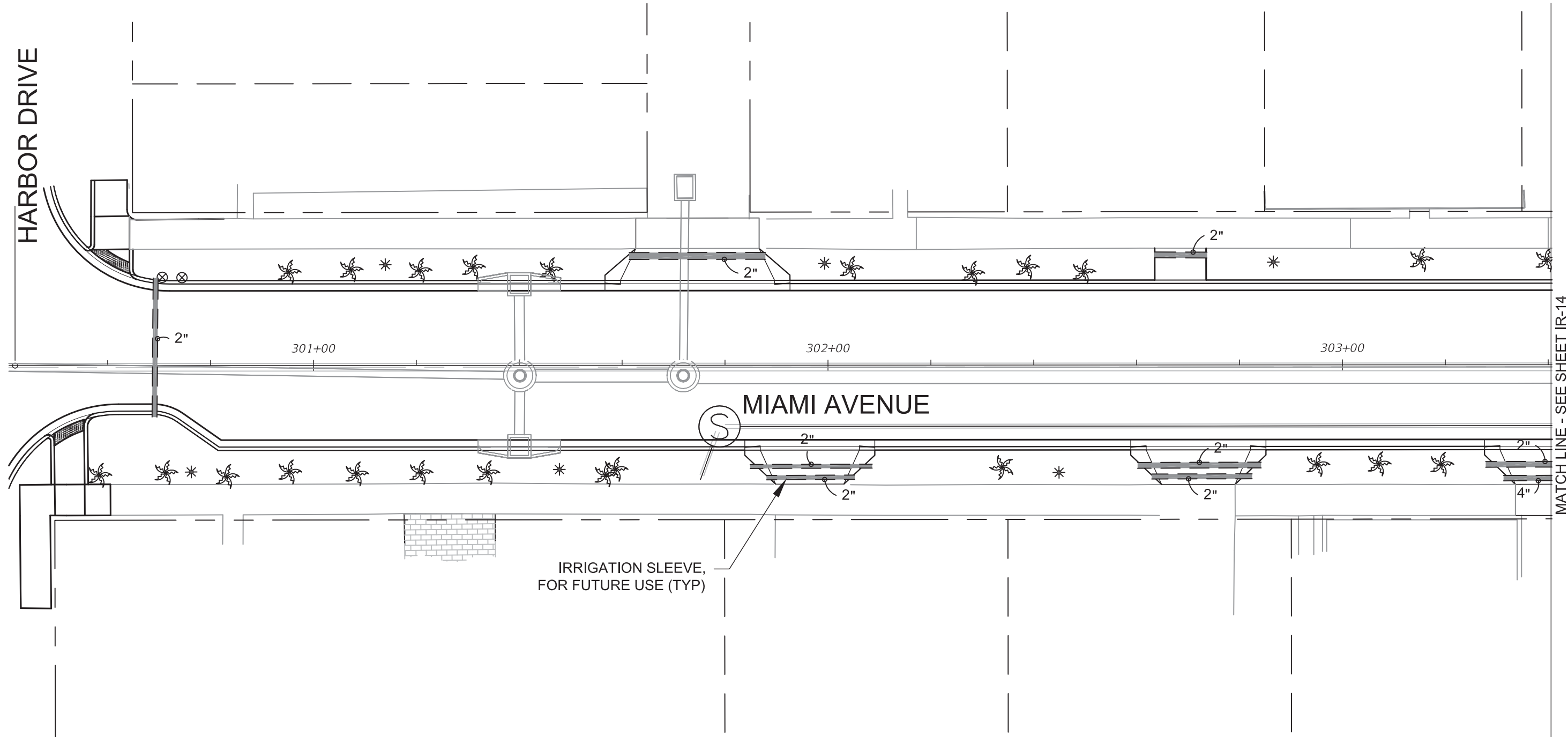
Page 1060 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-12
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:45pm



HARBOR DRIVE

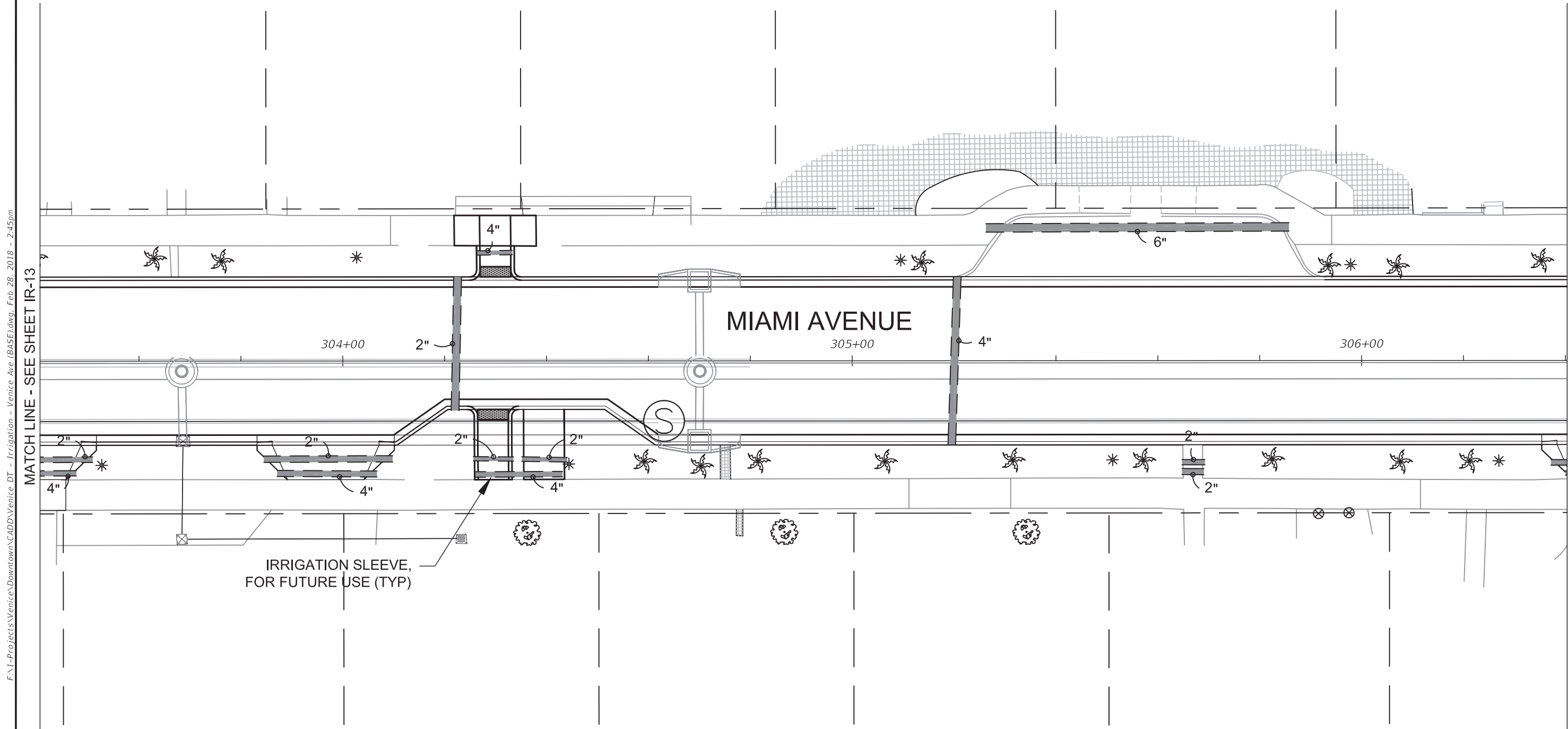
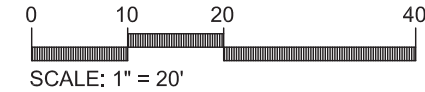


0 10 20 40
SCALE: 1" = 20'





MATCH LINE - SEE SHEET IR-14

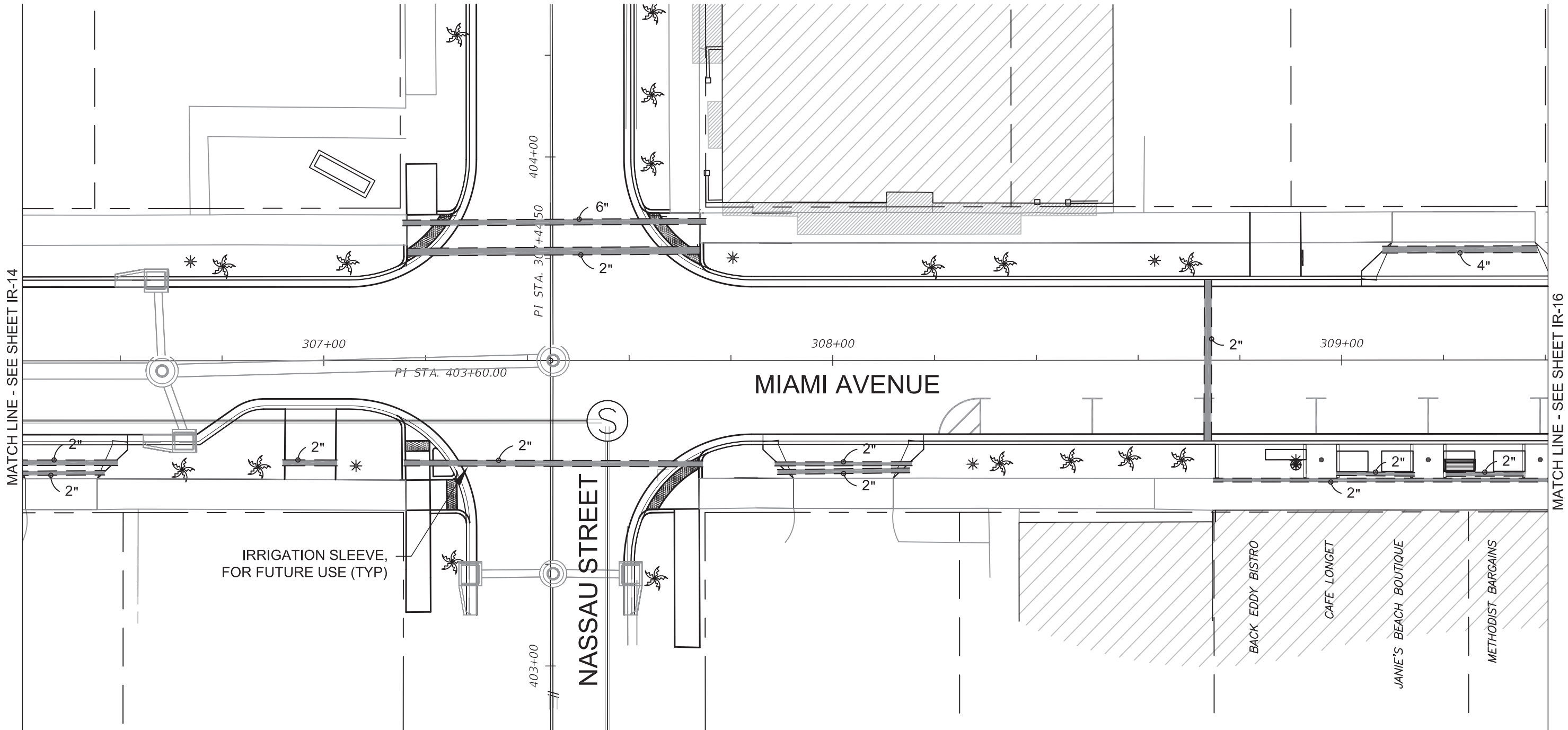
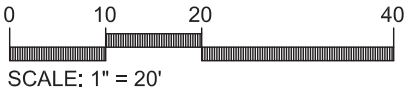
Page 1061 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-13
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						





F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:45pm

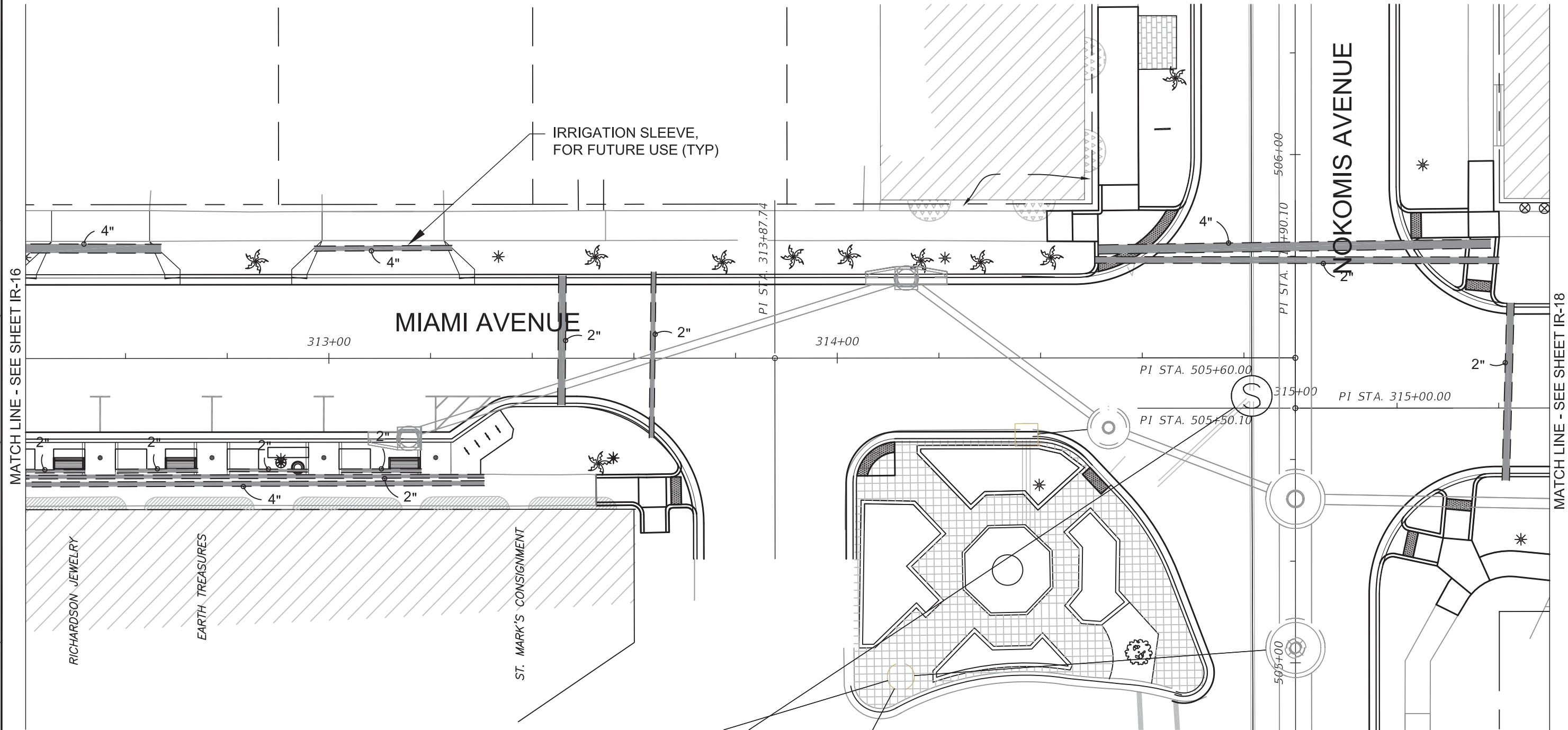
Page 1062 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-14
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:46pm





Page 1063 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-15
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:46pm

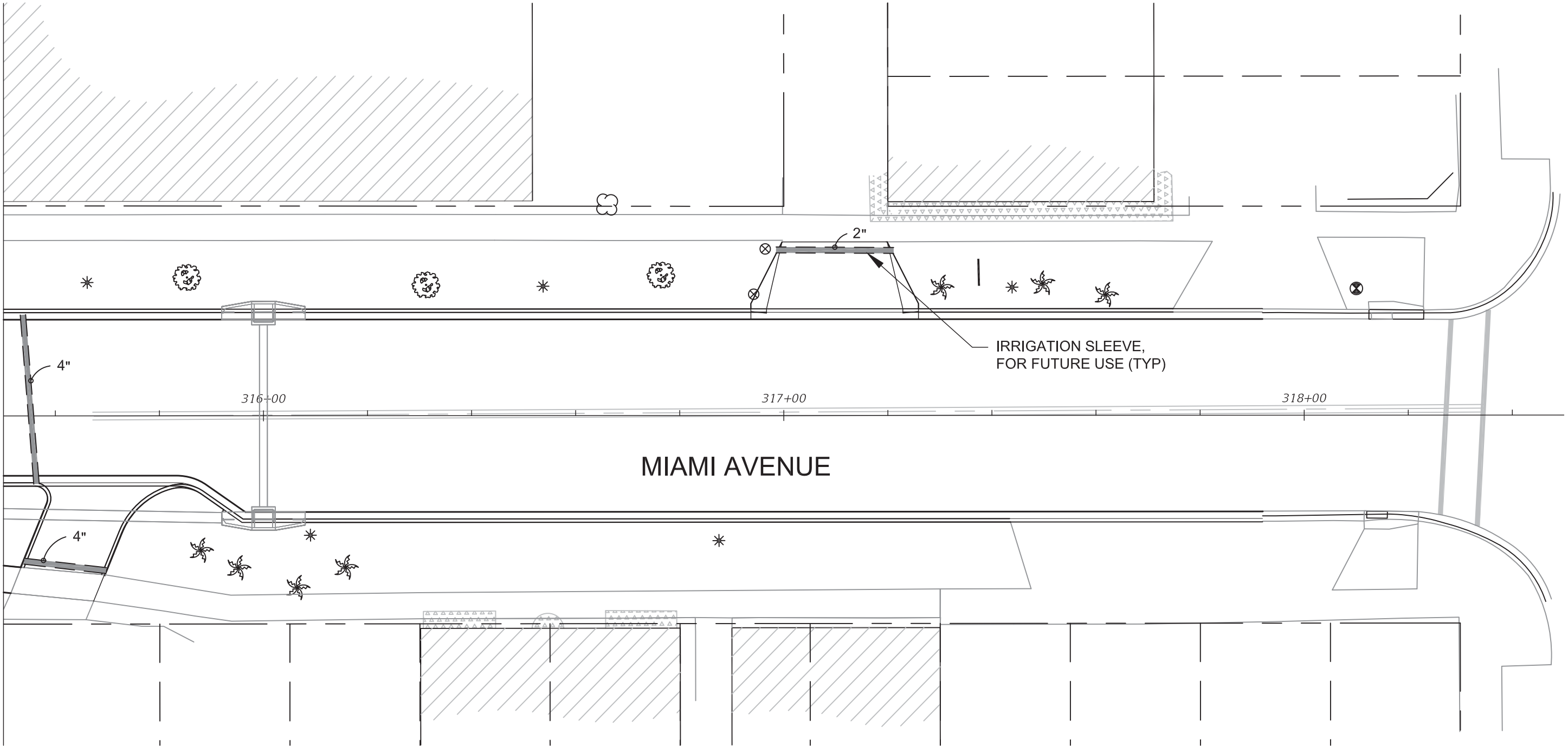
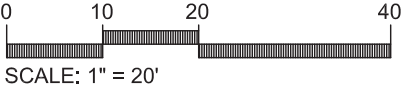




0 10 20 40
SCALE: 1" = 20'

Page 1065 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: _____ PROJECT NO.: 100054389 SHEET: IR-17
REV. NO.	DATE	DESCRIPTION	CHECKED <u>DL</u>						

F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:46pm











MATCH LINE - SEE SHEET IR-17














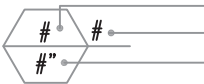
Page 1066 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-18
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:47pm

IRRIGATION SCHEDULE



SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Hunter MP1000 PROS-06-PRS40-CV	2	90-210	40		14'
	Hunter MP1000 PROS-06-PRS40-CV	36	360	40	0.84	14'
	Hunter MP2000 PROS-06-PRS40-CV	172	90-210	40		19'
	Hunter MP800SR PROS-06-PRS40-CV	2	Adj	40		10'
	Hunter MP Strip PROS-06-PRS40-CV	7	LCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	6	RCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	94	SST	40	0.44	5'x30'
	Hunter PROS-PRS30-06-CV-MSBN	44	360	30	1.00	3'
	Hunter PROS-PRS30-06-CV-MSBN	153	180	30	1.00	3'
	Hunter RZWS-SLEEVE-18-CV	118	360	30	0.50	3'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ACZ-075-25 Drip control kit featuring a 3/4" PGV-ASV valve, with 3/4" HY075 filter system, and 25psi pressure regulated. Flow range: 0.5 GPM to 15 GPM. With 150 mesh stainless steel screen.	2
	Hunter SD-B-STK Drip 360 Micro Spray for Residential/Commercial Use. Eight streams of water, with 360 degree spray. 15psi to 30psi. Solo-Drip with Barb and 6" Stake.	50

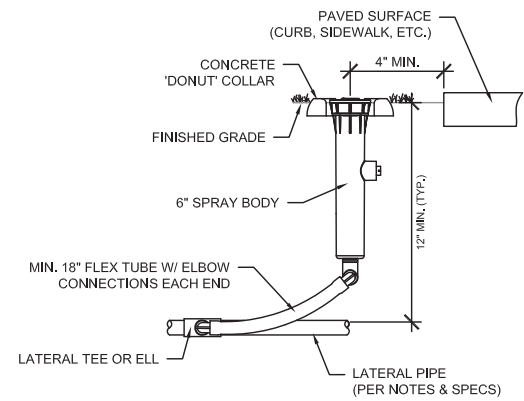
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	12	
	Rain Bird ESP8LXME See existing and/or proposed irrigation pump for Controller.	1	
	Rain Bird ESP8LXME See existing and/or proposed irrigation pump for Controller.	1	
	Cap for future use Cap at the mainline or lateral line for future use. The pressure and flow provided to that location are indicated next to the cap symbol. This will be	15	
	Venice Ave. Ex. Irrigation Pump - West (ID#6141)	1	
	Centennial Park Ex. Irrigation Pump (ID#6488)	1	
	Irrigation Lateral Line: CPVC Schedule 40	13,656 l.f.	
	Irrigation Mainline: CPVC Schedule 40	1,098 l.f.	
	Pipe Sleeve: CPVC Schedule 80	9,866 l.f.	
	Valve Callout Valve Number Valve Flow Valve Size		

IRRIGATION NOTES :

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER, THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE, CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO EXCAVATION.
8. ZONE LINES ARE DESIGNED TO PERFORM AT 40 PSI AT THE LAST HEAD FOR ROTARY SPRAY AND BUBBLER ZONES AND 30 PSI AT THE LAST HEAD FOR DRIP EMITTERS. APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN THE PLANS.
9. ZONE LINE PIPING SHALL BE CLASS 200 PVC PLASTIC PIPE OR APPROVED EQUAL.
10. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 40 PVC INSTALLED 18" BELOW THE FINISHED GRADE AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
11. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 40 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE RECEIVING PIPE.
12. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
13. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING. NO VALVE ENCLOSURES SHALL BE INSTALLED WITHIN A FENCED IN PLAYING SURFACE WITH THE EXCEPTION OF THE QUICK COUPLING VALVES FOR THE BASEBALL FIELDS.
14. INCLUDE INSTALLATION OF 30MIL, 12 AWG TRACER WIRE ALONG THE MAINLINE.
15. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
16. CONTRACTOR SHALL INCLUDE THE COST OF DRILLING AND STABILIZING NEW WELLS AS CALLED OUT IN THE PLANS.
17. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
18. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
19. ALL EXISTING IRRIGATION, INCLUDING ADJACENT SYSTEMS THAT MAY SHARE A WATER SOURCE, SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT NEW IRRIGATION MAIN INSTALLATION DOES NOT DISRUPT EXISTING IRRIGATION ACTIVITIES THROUGHOUT THE PROJECT AREA.
20. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
21. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
22. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
 - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
 - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
 - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
23. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FIELD. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
24. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

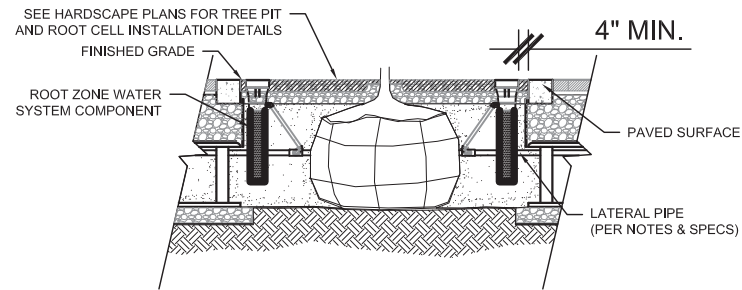
				DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: IRRIGATION SCHEDULE & NOTES	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-19
Page 1067 of 1140				DRAWN <u>JLK</u>						
REV. NO.	DATE	DESCRIPTION		CHECKED <u>DL</u>						

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Venice Ave (BASE).dwg, Feb 28, 2018 - 2:47 pm



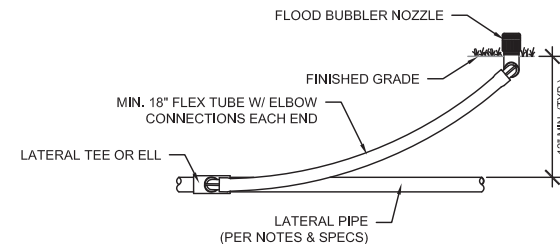
6" SPRAY BODY INSTALLATION

FOR USE WITH ALL NOZZLES (SPRAY, BUBBLER, ROTARY)
N.T.S.



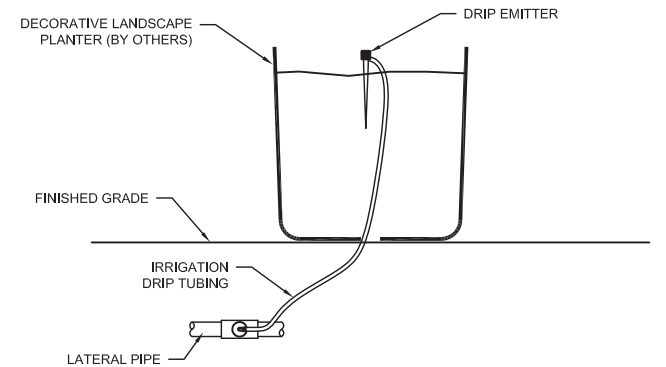
ROOT ZONE WATER SYSTEM

N.T.S.



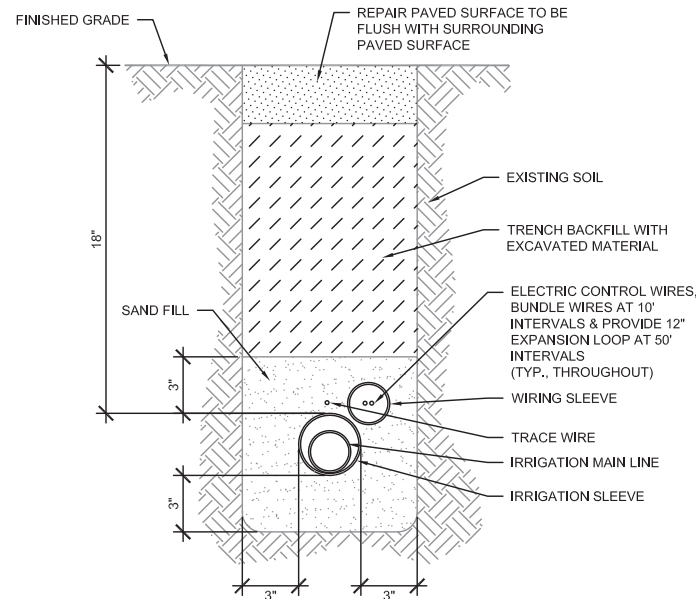
FLOOD BUBBLER INSTALLATION

N.T.S.



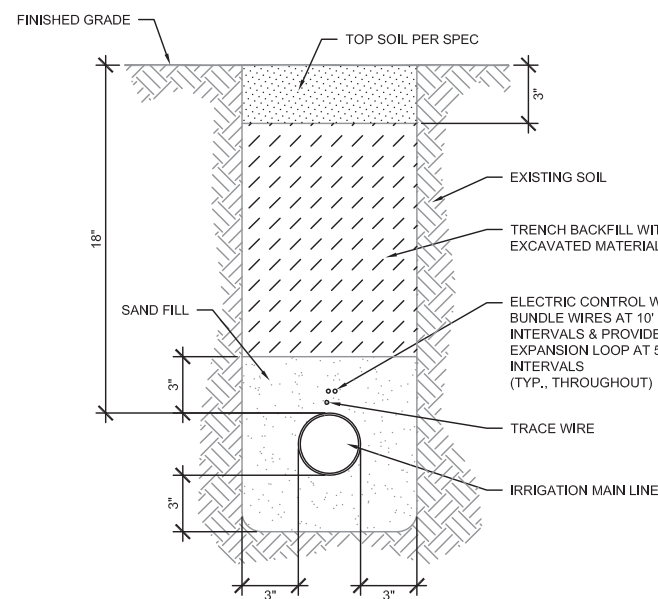
LANDSCAPE PLANTER DRIP IRRIGATION

N.T.S.



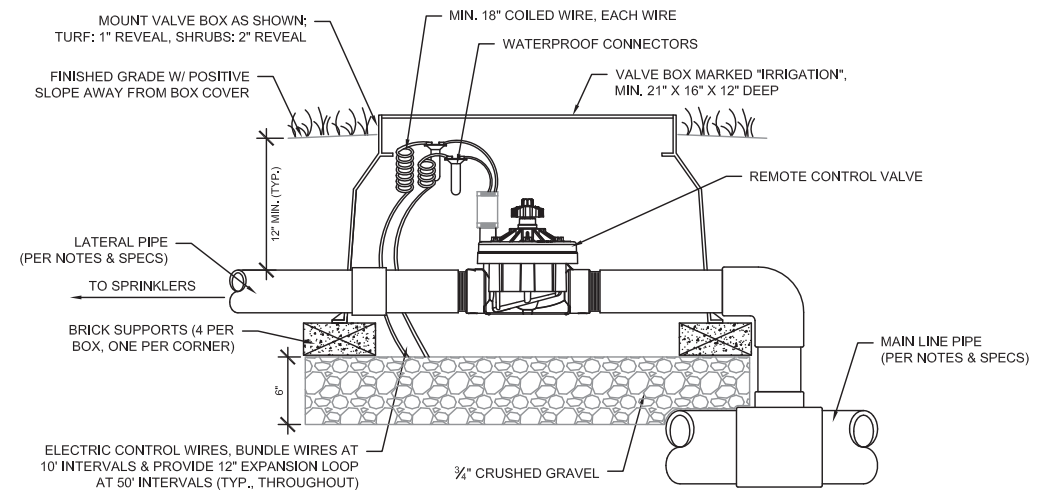
TRENCHING THROUGH PAVED SURFACE DETAIL

N.T.S.



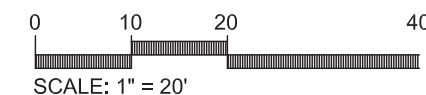
TRENCHING DETAIL

N.T.S.



REMOTE CONTROL VALVE INSTALLATION

N.T.S.



DESIGNED HLB
DRAWN JLK
CHECKED DL



PREPARED BY:



PROJECT:

CITY OF VENICE
DOWNTOWN ROADWAY
CORRIDOR IMPROVEMENTS

DESCRIPTION:

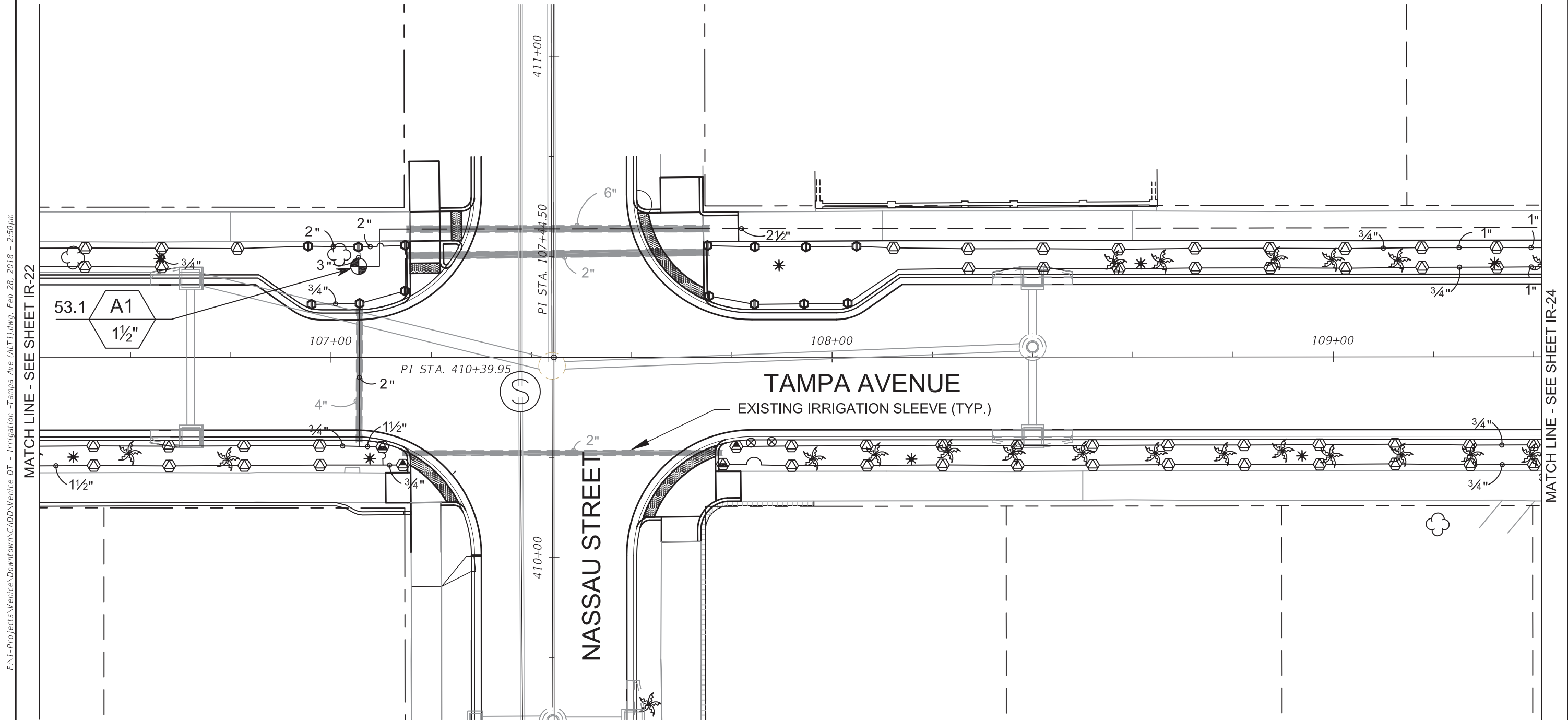
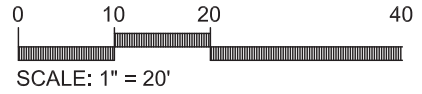
TAMPA AVENUE
ALTERNATE
IRRIGATION PLAN

APPROVED BY:



HARRY L. BELTON, RLA
FLA. REG. NO 900

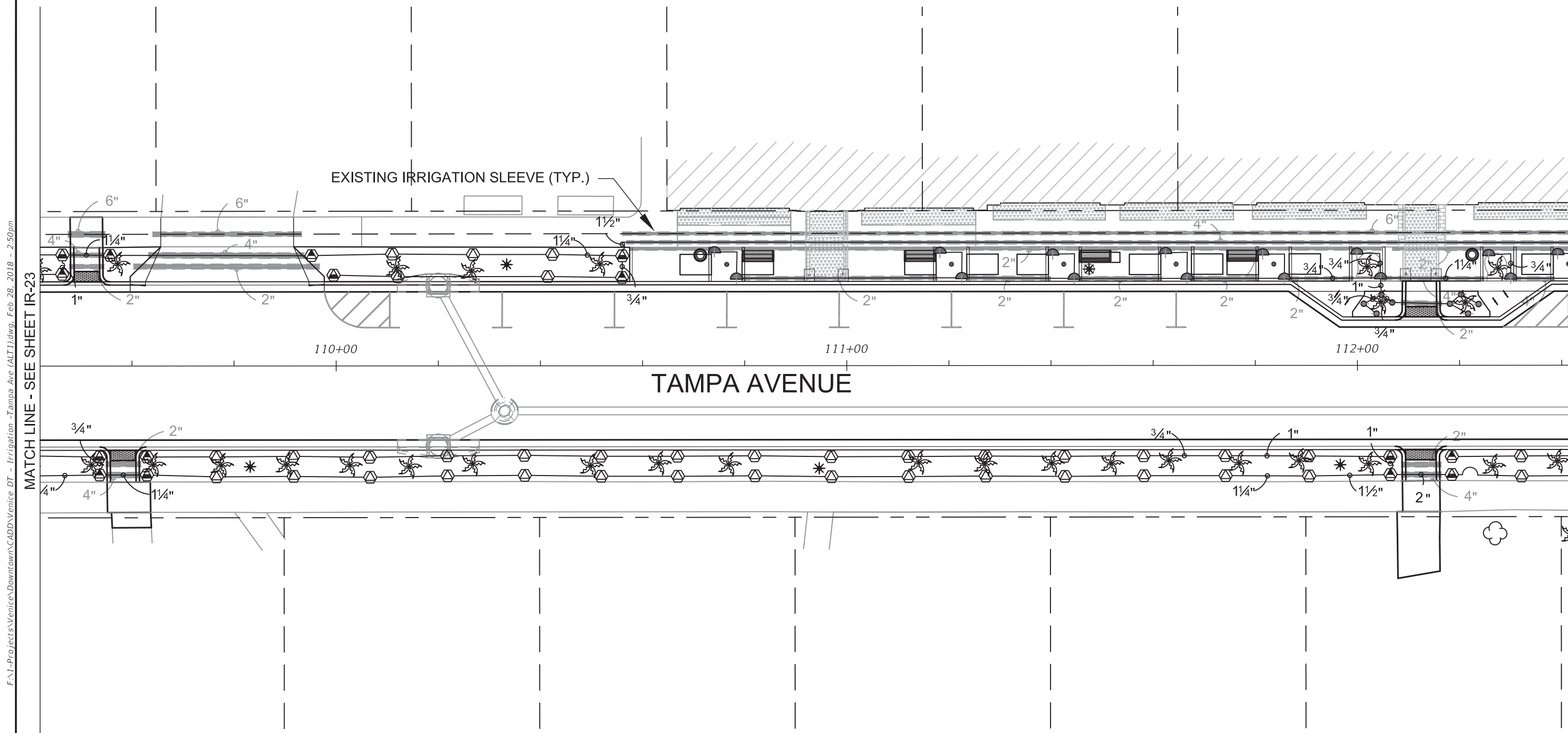
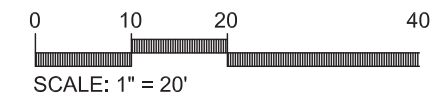
DATE:

PROJECT NO.: 100054389
SHEET: IR-22




F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation -Tampa Ave (ALT1).dwg, Feb. 28, 2018 - 2:50pm

Page 1071 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: TAMPA AVENUE ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-23
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



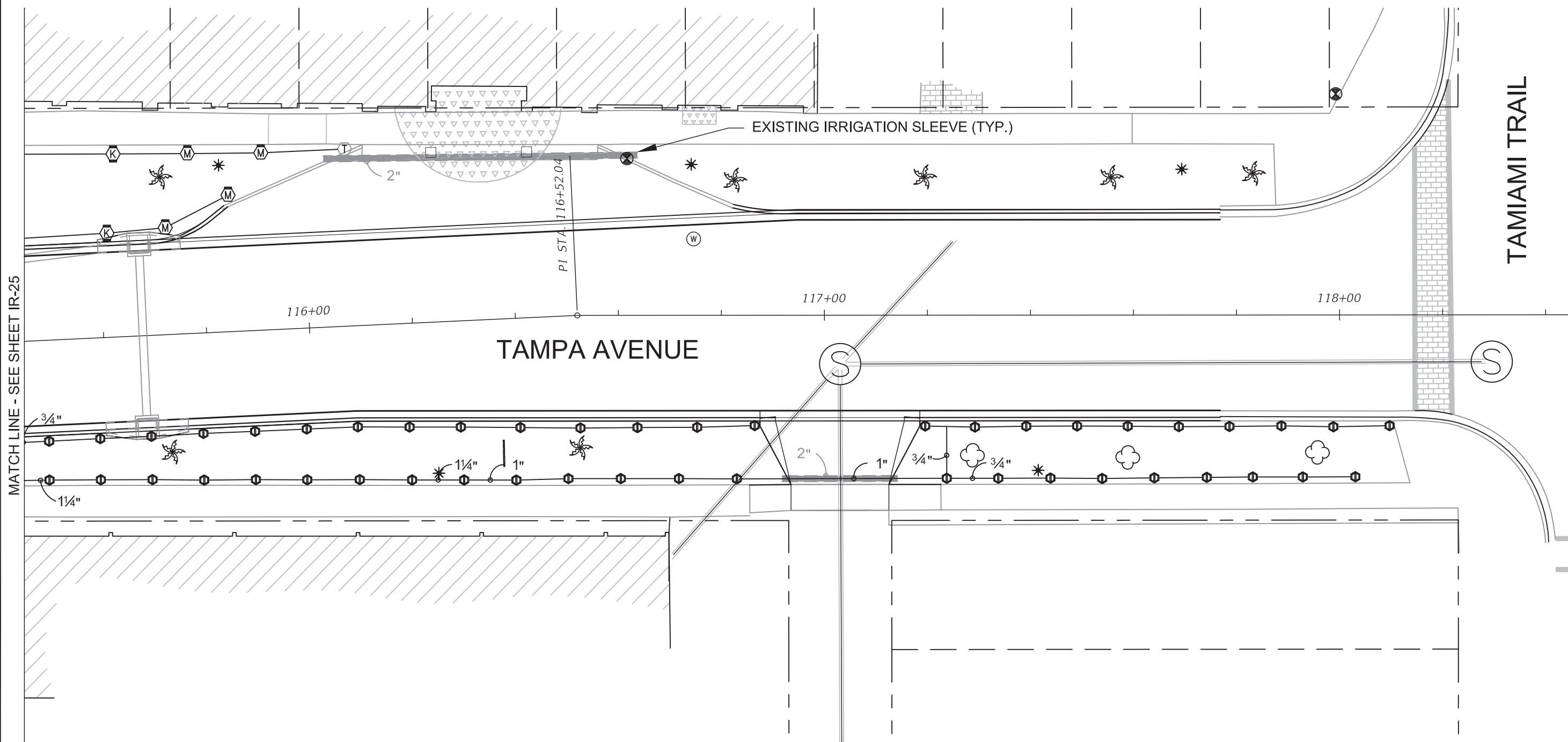
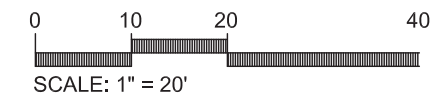
F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation -Tampa Ave (ALT1).dwg, Feb. 28, 2018 - 2:50pm

Page 1072 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: TAMPA AVENUE ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-24
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						





PROJECT NO.:
100054389

SHEET:
1R-25

















F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Tampa Ave (ALT1).dwg, Feb. 28, 2018 - 2:51pm

Page 1074 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: TAMPA AVENUE ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-26
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						


F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation -Tampa Ave (ALT1).dwg, Feb 28, 2018 - 2:51pm

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Hunter MP1000 PROS-06-PRS40-CV	4	90-210	40		14'
	Hunter MP2000 PROS-06-PRS40-CV	6	90-210	40		19'
	Hunter MP800SR PROS-06-PRS40-CV	80	Adj	40		10'
	Hunter MP Corner PROS-06-PRS40-CV	10	Adj	40		13'
	Hunter MP Strip PROS-06-PRS40-CV	28	LCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	31	RCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	184	SST	40	0.44	5'x30'
	Hunter PROS-PRS30-06-CV-MSBN	8	180	30	1.00	3'
	Hunter RZWS-SLEEVE-18-CV	24	360	30	0.50	3'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	4	
	Rain Bird ESP8LXME See existing and/or proposed irrigation pump for Controller.	1	
	Tampa Ave. Irrigation Pump	1	
	Irrigation Lateral Line: CPVC Schedule 40	5,958 l.f.	
	Irrigation Mainline: CPVC Schedule 40	761.6 l.f.	

Valve Callout



IRRIGATION NOTES :

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE. CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO EXCAVATION.
8. ZONE LINES ARE DESIGNED TO PERFORM AT 40 PSI AT THE LAST HEAD FOR ROTARY SPRAY AND BUBBLER ZONES AND 30 PSI AT THE LAST HEAD FOR DRIP EMITTERS. APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN THE PLANS.
9. ZONE LINE PIPING SHALL BE CLASS 200 PVC PLASTIC PIPE OR APPROVED EQUAL.
10. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 40 PVC INSTALLED 18" BELOW THE FINISHED GRADE AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
11. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 40 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE RECEIVING PIPE.
12. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
13. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING. NO VALVE ENCLOSURES SHALL BE INSTALLED WITHIN A FENCED IN PLAYING SURFACE WITH THE EXCEPTION OF THE QUICK COUPLING VALVES FOR THE BASEBALL FIELDS.
14. INCLUDE INSTALLATION OF 30MIL, 12 AWG TRACER WIRE ALONG THE MAINLINE.
15. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
16. CONTRACTOR SHALL INCLUDE THE COST OF DRILLING AND STABILIZING NEW WELLS AS CALLED OUT IN THE PLANS.
17. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
18. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
19. ALL EXISTING IRRIGATION, INCLUDING ADJACENT SYSTEMS THAT MAY SHARE A WATER SOURCE, SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT NEW IRRIGATION MAIN INSTALLATION DOES NOT DISRUPT EXISTING IRRIGATION ACTIVITIES THROUGHOUT THE PROJECT AREA.
20. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
21. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
22. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
 - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
 - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
 - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
23. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FIELD. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
24. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation -Tampa Ave (ALT1).dwg, Feb. 28, 2018 - 2:51pm

NOTE: DISCHARGE PIPES & HEADER TO IRRIGATION MAIN SHALL BE SCHED 40 GALVANIZED STEEL PIPE WITH GALV. ROLL GROOVE FITTINGS. PUMP DROP PIPE SHALL BE HDPE HEAT FUSED, SET PUMP 60" ON 2" PIPE. INSTALL MOTOR CABLE SPLICE BETWEEN MOTOR AND CONTROL PANEL IN NEMA 4X JUNCTION BOX ADJACENT TO WELL IN ACCORDANCE WITH ELECTRICAL CODES.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 50' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 150% OF THE DESIGN FLOW BELOW.

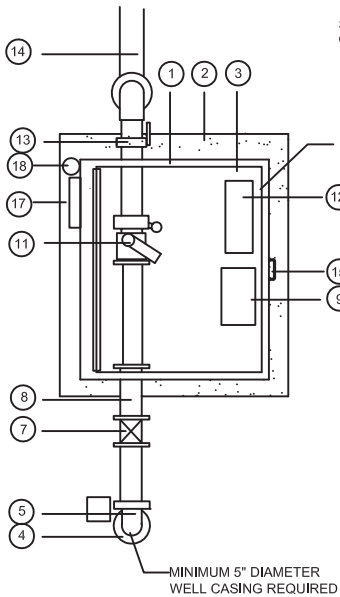
PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

__PRESSURE CONTROL VALVE

X IRRIGATION CONTROLLER RAIN BIRD ESP-LXME 12 STATIONS, WITH RAIN SENSOR ON 8' POLE

__PRESSURE TANKS FOR PRESSURE DEMAND SYSTEM



SAFETY FEATURES:
CLOCK START:
-TRANSIENT SURGE
-LOSS OF PRIME
-NO FLOW

MAINTAIN 3.5' CLEARANCE IN FRONT OF CONTROL PANEL AND 4' ALL SIDES OF PUMP SYSTEM.

- 1 4' X 4' FIBERGLASS REINFORCED ENCLOSURE FOREST GREEN GELCOAT FINISH
- 2 REINFORCED CONCRETE PAD (4" THICK)
- 3 4' X 4' ALUMINUM SKID
- 4 WELL SEAL
- 5 WELL, JUNCTION BOX & DISCHARGE PIPE
- 6 SUBMERSIBLE PUMP MOTOR ASSEMBLY 7.5 HP (NOT SHOWN)
- 7 CHECK VALVE
- 8 GALV. STEEL DISCHARGE
- 9 VARIABLE FREQUENCY DRIVE
- 10 N/A
- 11 PRESSURE TRANSDUCER
- 12 CONTROL PANEL ASSEMBLY UL LISTED MAINTAIN 42" CLEARANCE
- 13 DISCHARGE VALVE
- 14 IRRIGATION MAIN
- 15 LOCKABLE HANDLE
- 16 N/A
- 17 RAIN BIRD ESP-LXME 12 STATION IRRIGATION CONTROLLER
- 18 RAIN SENSOR ON 8' POLE

PLAN VIEW NTS

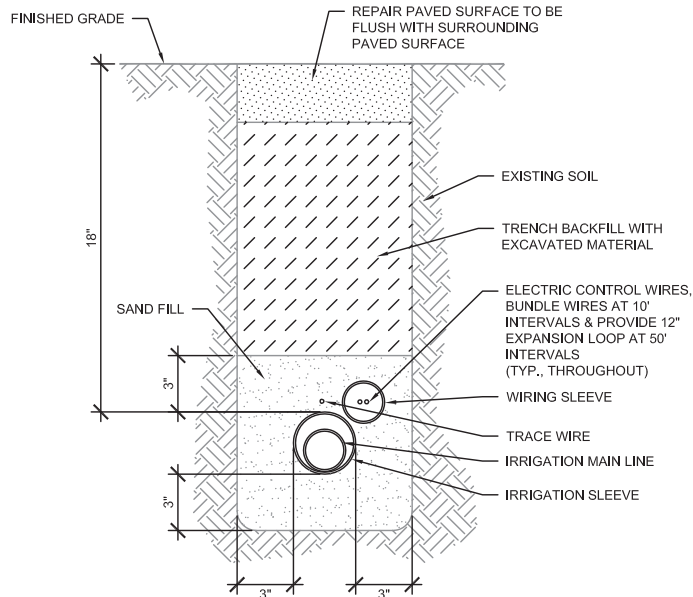
ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE: 460V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 WYE 3-PHASE, 230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE.

PUMP PERFORMANCE 55 GPM @ 195 TDH, 60 PSI DISCHARGE PRESSURE

HOOVER PUMPING MODEL: HSF-7.5CSV-230/3-E-12.W.Z
Pompano Beach, Florida, Tel: 954-971-7350

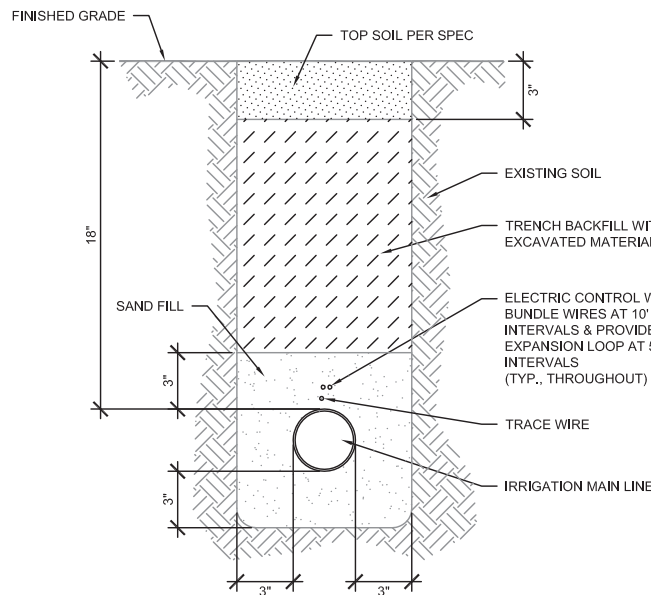
FILE PN14631.DWG 10/17

CITY OF VENICE
TAMPA AVE PUMP STATION
SUBMERSIBLE PUMP SYSTEM DETAIL
FIBERGLASS ENCLOSED SINGLE WELL SUCTION
VARIABLE FREQUENCY DRIVE (VFD) CLOCK START
HOOVER GREEN



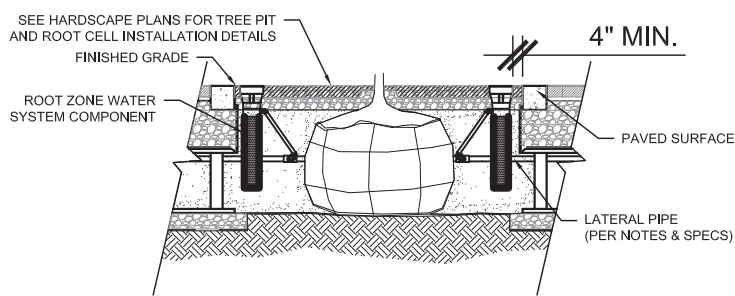
TRENCHING THROUGH PAVED SURFACE DETAIL

N.T.S.



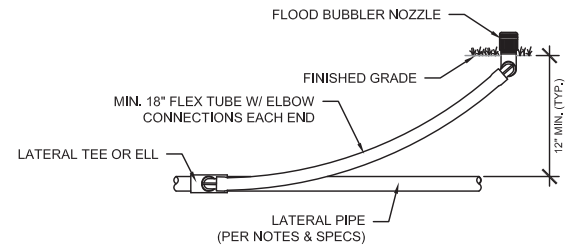
TRENCHING DETAIL

N.T.S.



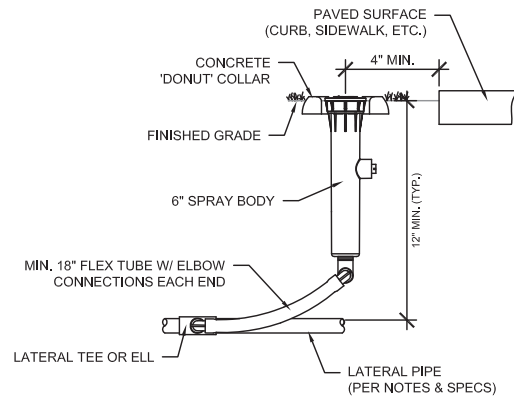
ROOT ZONE WATER SYSTEM

N.T.S.



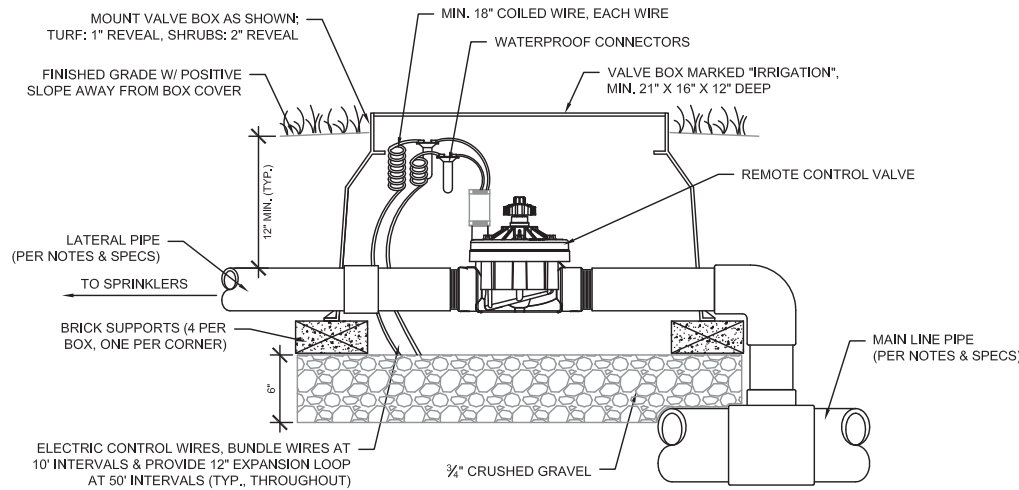
FLOOD BUBBLER INSTALLATION

N.T.S.





6" SPRAY BODY INSTALLATION

FOR USE WITH ALL NOZZLES (SPRAY, BUBBLER, ROTARY)
N.T.S.



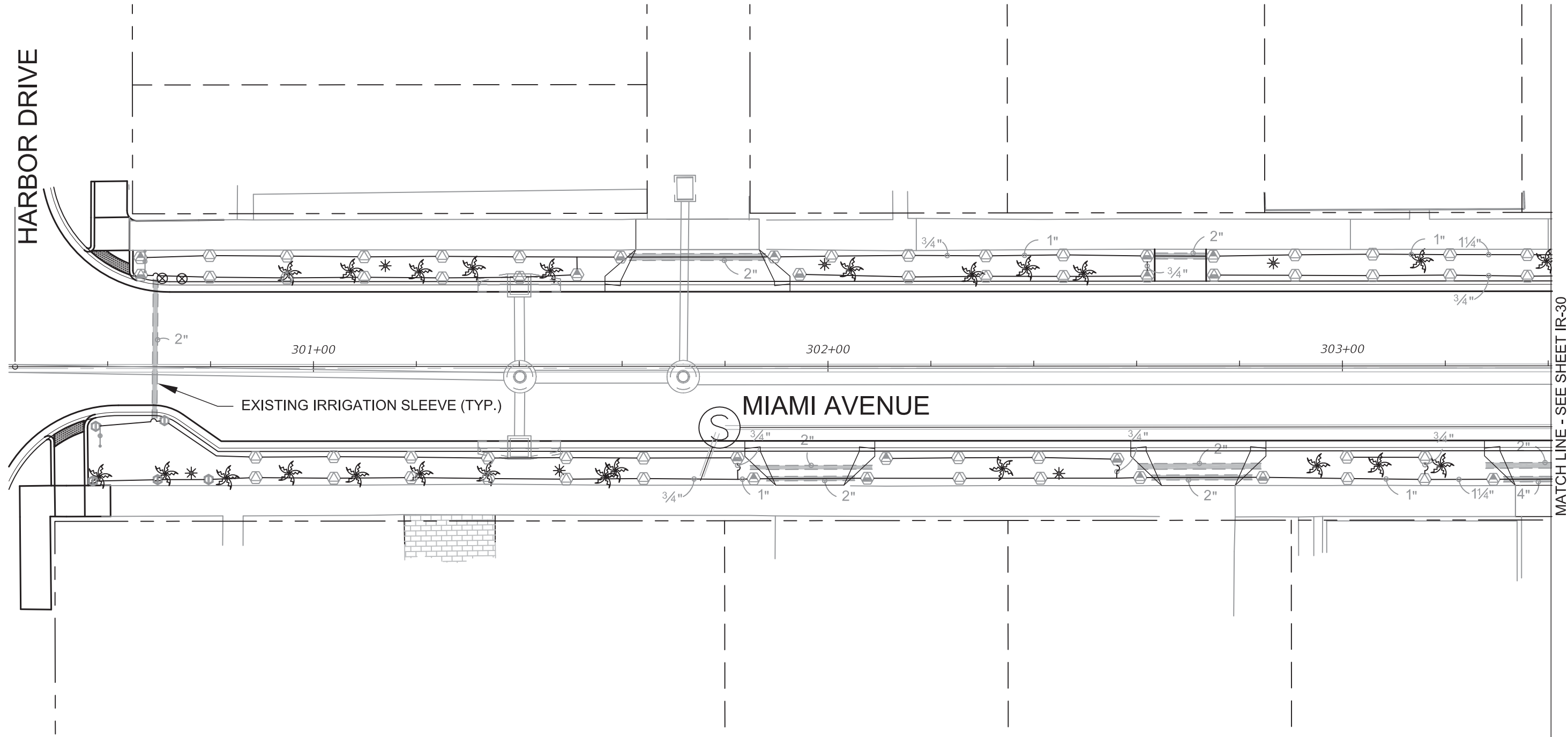
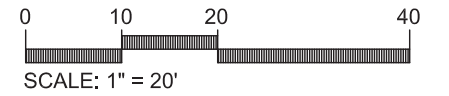
REMOTE CONTROL VALVE INSTALLATION



N.T.S.

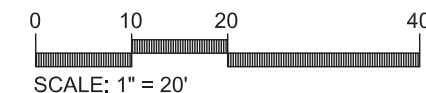
				DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: TAMPA AVENUE ALTERNATE IRRIGATION DETAILS	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-28
Page 1076 of 1140				DRAWN <u>JLK</u>						
REV. NO.	DATE	DESCRIPTION		CHECKED <u>DL</u>						

F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Miami Ave (ALT2).dwg, Feb 28, 2018 - 2:52pm

HARBOR DRIVE

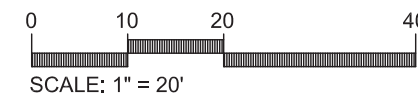


Page 1077 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: MIAMI AVENUE ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-29
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



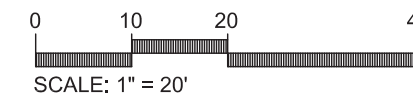
REV. NO.	DATE	DESCRIPTION
----------	------	-------------

PROJECT NO.: 100054389
SHEET: IR-30



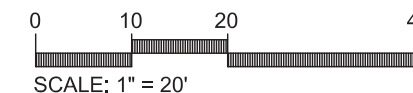
REV. NO.	DATE	DESCRIPTION
----------	------	-------------

PROJECT NO.: 100054389
SHEET: IR-31

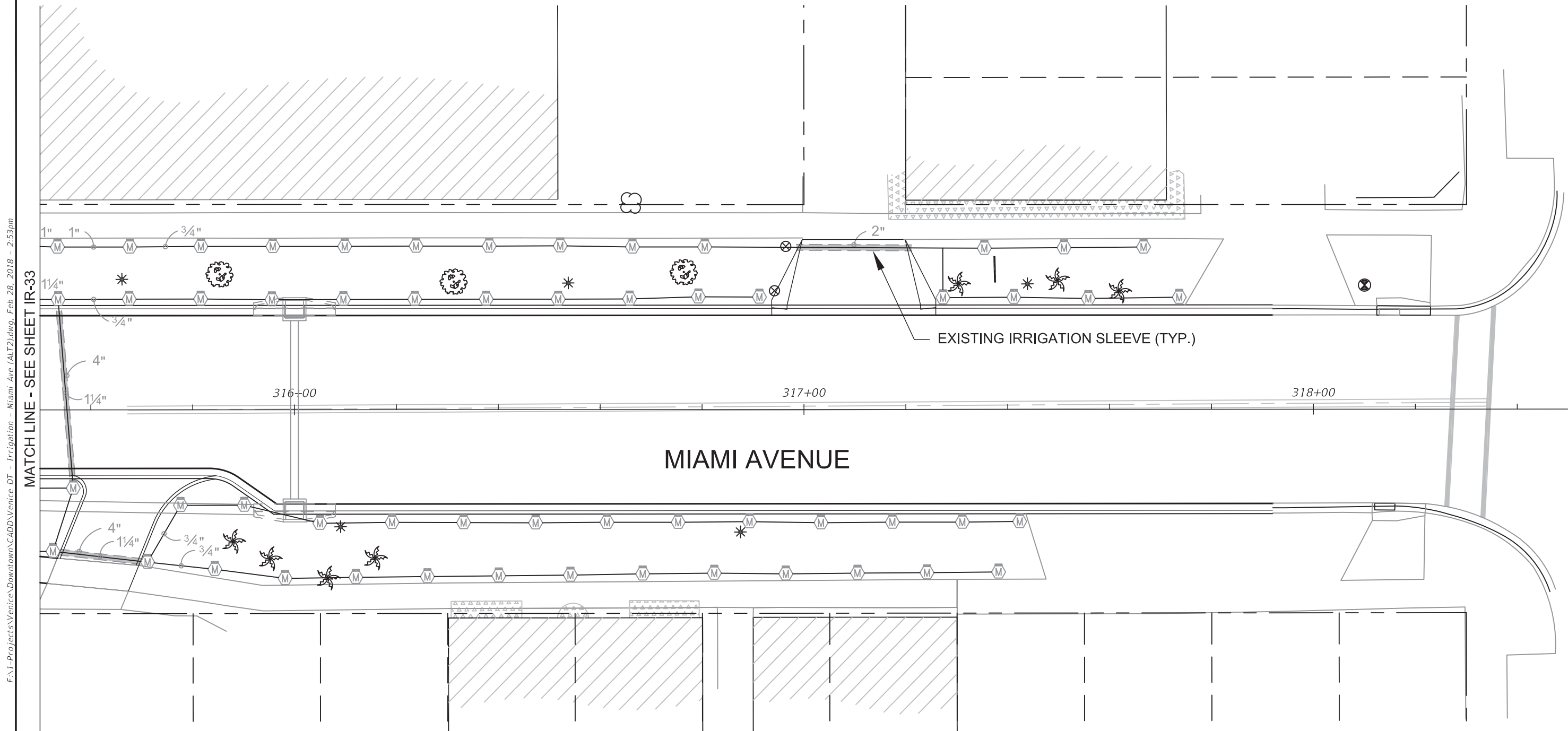
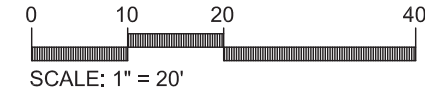


REV. NO.	DATE	DESCRIPTION
----------	------	-------------

DATE: ----
PROJECT NO.: 100054389
SHEET: IR-32





PROJECT NO.: 100054389
SHEET: IR-33












F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Miami Ave (ALT2).dwg, Feb 28, 2018 - 2:53pm



MATCH LINE - SEE SHEET IR-33






Page 1082 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: MIAMI AVENUE ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ----- PROJECT NO.: 100054389 SHEET: IR-34
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Miami Ave (ALT2).dwg, Feb 28, 2018 - 2:54pm


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	Hunter MP1000 PROS-06-PRS40-CV	60	90-210	40		14'
	Hunter MP800SR PROS-06-PRS40-CV	21	Adj	40		10'
	Hunter MP Corner PROS-06-PRS40-CV	2	Adj	40		13'
	Hunter MP Strip PROS-06-PRS40-CV	37	LCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	36	RCS	40	0.22	5'x15'
	Hunter MP Strip PROS-06-PRS40-CV	136	SST	40	0.44	5'x30'
	Hunter PROS-PRS30-06-CV-MSBN	9	360	30	1.00	3'
	Hunter PROS-PRS30-06-CV-MSBN	21	180	30	1.00	3'
	Hunter RZWS-SLEEVE-18-CV	42	360	30	0.50	3'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ACZ-075-25 Drip control kit featuring a 3/4" PGV-ASV valve, with 3/4" HY075 filter system, and 25psi pressure regulated. Flow range: 0.5 GPM to 15 GPM. With 150 mesh stainless steel screen.	1
	Hunter SD-B-STK Drip 360 Micro Spray for Residential/Commercial Use. Eight streams of water, with 360 degree spray. 15psi to 30psi. Solo-Drip with Barb and 6" Stake.	2

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Hunter ICV-G 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	4	
	Rain Bird ESP8LXME See existing and/or proposed irrigation pump for Controller.	1	
	Miami Ave. Irrigation Pump	1	
	Irrigation Lateral Line: CPVC Schedule 40	5,802 l.f.	
	Irrigation Mainline: CPVC Schedule 40	603.1 l.f.	

Valve Callout



Valve Number

Valve Flow

Valve Size

IRRIGATION NOTES :

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE. CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO EXCAVATION.
8. ZONE LINES ARE DESIGNED TO PERFORM AT 40 PSI AT THE LAST HEAD FOR ROTARY SPRAY AND BUBBLER ZONES AND 30 PSI AT THE LAST HEAD FOR DRIP EMITTERS. APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN THE PLANS.
9. ZONE LINE PIPING SHALL BE CLASS 200 PVC PLASTIC PIPE OR APPROVED EQUAL.
- 10.THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 18" PVC INSTALLED 18" BELOW THE FINISHED GRADE AND 36" BELOW FINISHED GRADE OF ROADWAY . FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
- 11.IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 40 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE RECEIVING PIPE.
- 12.IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
- 13.ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING. NO VALVE ENCLOSURES SHALL BE INSTALLED WITHIN A FENCED IN PLAYING SURFACE WITH THE EXCEPTION OF THE QUICK COUPLING VALVES FOR THE BASEBALL FIELDS.
- 14.INCLUDE INSTALLATION OF 30MIL, 12 AWG TRACER WIRE ALONG THE MAINLINE.
- 15.IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
- 16.CONTRACTOR SHALL INCLUDE THE COST OF DRILLING AND STABILIZING NEW WELLS AS CALLED OUT IN THE PLANS.
- 17.FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
- 18.AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
- 19.ALL EXISTING IRRIGATION, INCLUDING ADJACENT SYSTEMS THAT MAY SHARE A WATER SOURCE, SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT NEW IRRIGATION MAIN INSTALLATION DOES NOT DISRUPT EXISTING IRRIGATION ACTIVITIES THROUGHOUT THE PROJECT AREA.
- 20.IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
- 21.IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
- 22.AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
 - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
 - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
 - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
- 23.BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FIELD. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
- 24.UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

F:\1-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Miami Ave (ALT2).dwg, Feb 28, 2018 - 2:55pm

NOTE: DISCHARGE PIPES & HEADER TO IRRIGATION MAIN SHALL BE SCHED 40 GALVANIZED STEEL PIPE WITH GALV. ROLL GROOVE FITTINGS. PUMP DROP PIPE SHALL BE HDPE HEAT FUSED, SET PUMP 60" ON 2" PIPE. INSTALL MOTOR CABLE SPLICE BETWEEN MOTOR AND CONTROL PANEL IN NEMA 4X JUNCTION BOX ADJACENT TO WELL IN ACCORDANCE WITH ELECTRICAL CODES.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 50' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 150% OF THE DESIGN FLOW BELOW.

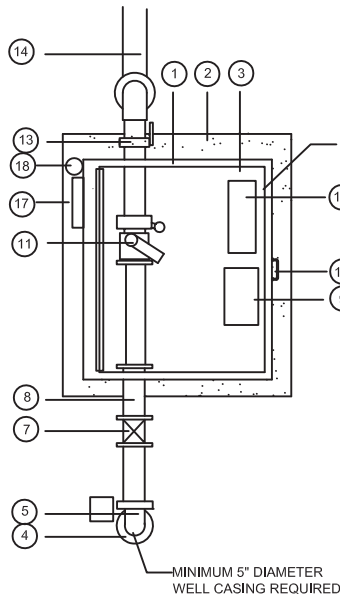
PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"

__PRESSURE CONTROL VALVE

X IRRIGATION CONTROLLER RAIN BIRD ESP-LXME 12 STATIONS, WITH RAIN SENSOR ON 8' POLE

__PRESSURE TANKS FOR PRESSURE DEMAND SYSTEM



SAFETY FEATURES:
CLOCK START:
-TRANSIENT SURGE
-LOSS OF PRIME
-NO FLOW

MAINTAIN 3.5' CLEARANCE IN FRONT OF CONTROL PANEL AND 4' ALL SIDES OF PUMP SYSTEM.

- 1 4' X 4' FIBERGLASS REINFORCED ENCLOSURE FOREST GREEN GELCOAT FINISH
- 2 REINFORCED CONCRETE PAD (4" THICK)
- 3 4' X 4' ALUMINUM SKID
- 4 WELL SEAL
- 5 WELL, JUNCTION BOX & DISCHARGE PIPE
- 6 SUBMERSIBLE PUMP MOTOR ASSEMBLY 7.5 HP (NOT SHOWN)
- 7 CHECK VALVE
- 8 GALV. STEEL DISCHARGE
- 9 VARIABLE FREQUENCY DRIVE
- 10 N/A
- 11 PRESSURE TRANSDUCER
- 12 CONTROL PANEL ASSEMBLY UL LISTED MAINTAIN 42" CLEARANCE
- 13 DISCHARGE VALVE
- 14 IRRIGATION MAIN
- 15 LOCKABLE HANDLE
- 16 N/A
- 17 RAIN BIRD ESP-LXME 12 STATION IRRIGATION CONTROLLER
- 18 RAIN SENSOR ON 8' POLE

PLAN VIEW NTS

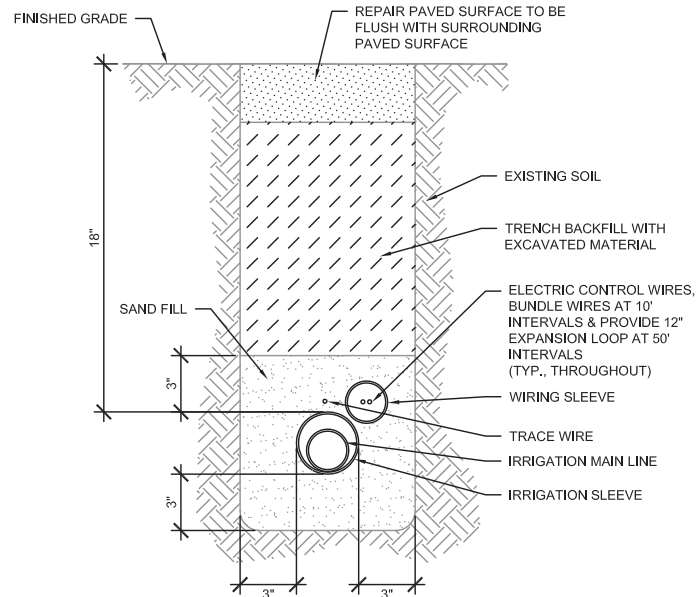
ELECTRIC SERVICE TO BE, IN ORDER OF PREFERENCE: 460V 3-PHASE, 230V CLOSED-DELTA 3-PHASE, 208 WYE 3-PHASE, 230 1-PHASE, 208V 1-PHASE, 230 OPEN-DELTA 3-PHASE.

PUMP PERFORMANCE 55 GPM @ 195 TDH, 60 PSI DISCHARGE PRESSURE

HOOVER PUMPING MODEL: HSF-7.5CSV-230/3-E-12.W.Z
Pompano Beach, Florida, Tel: 954-971-7350

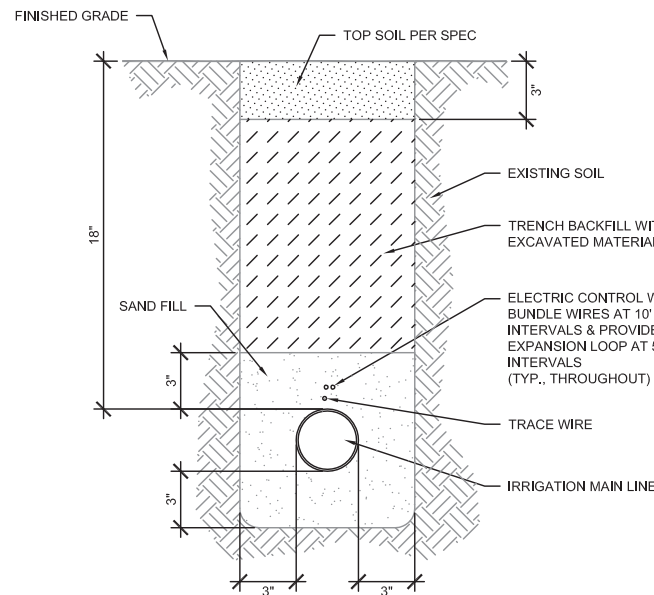
FILE PN14631.DWG 10/17

CITY OF VENICE
MIAMI AVE PUMP STATION
SUBMERSIBLE PUMP SYSTEM DETAIL
FIBERGLASS ENCLOSED SINGLE WELL SUCTION
VARIABLE FREQUENCY DRIVE (VFD) CLOCK START
HOOVER GREEN



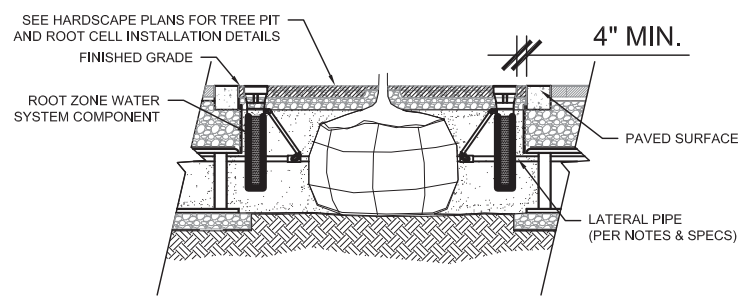
TRENCHING THROUGH PAVED SURFACE DETAIL

N.T.S.



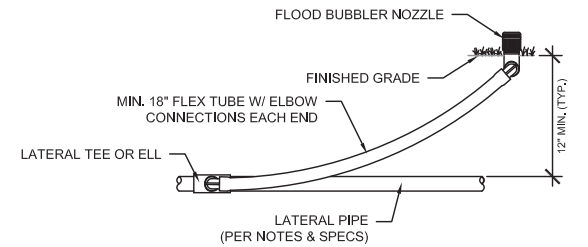
TRENCHING DETAIL

N.T.S.



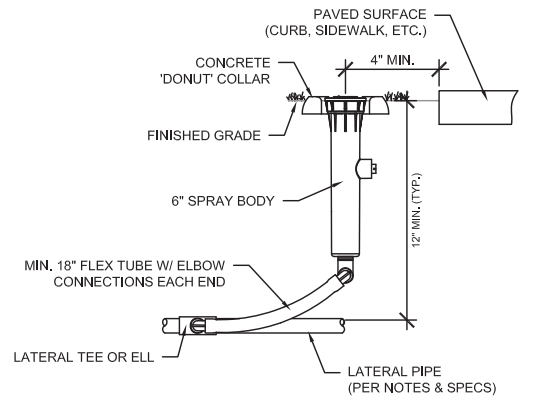
ROOT ZONE WATER SYSTEM

N.T.S.



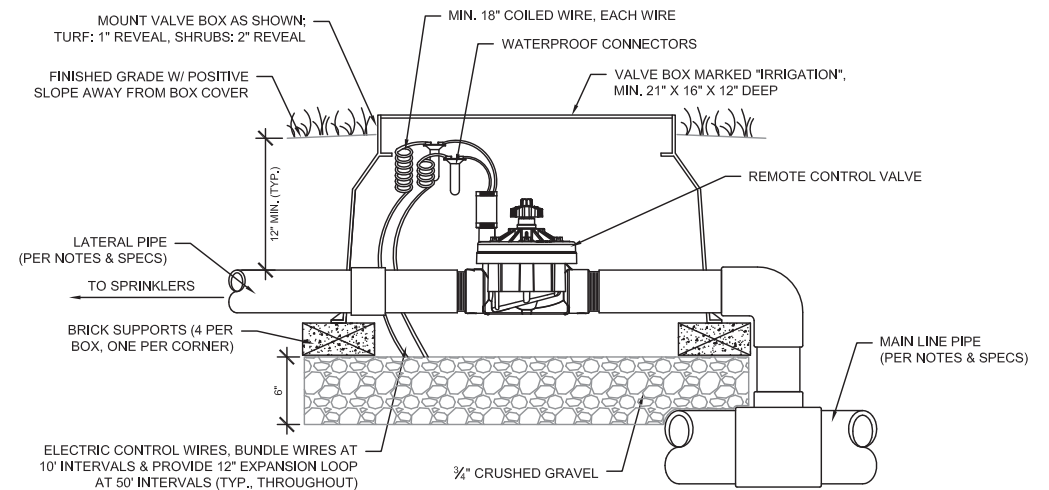
FLOOD BUBBLER INSTALLATION

N.T.S.



6" SPRAY BODY INSTALLATION

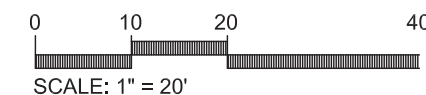
FOR USE WITH ALL NOZZLES (SPRAY, BUBBLER, ROTARY)
N.T.S.

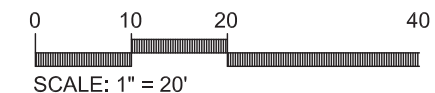


REMOTE CONTROL VALVE INSTALLATION

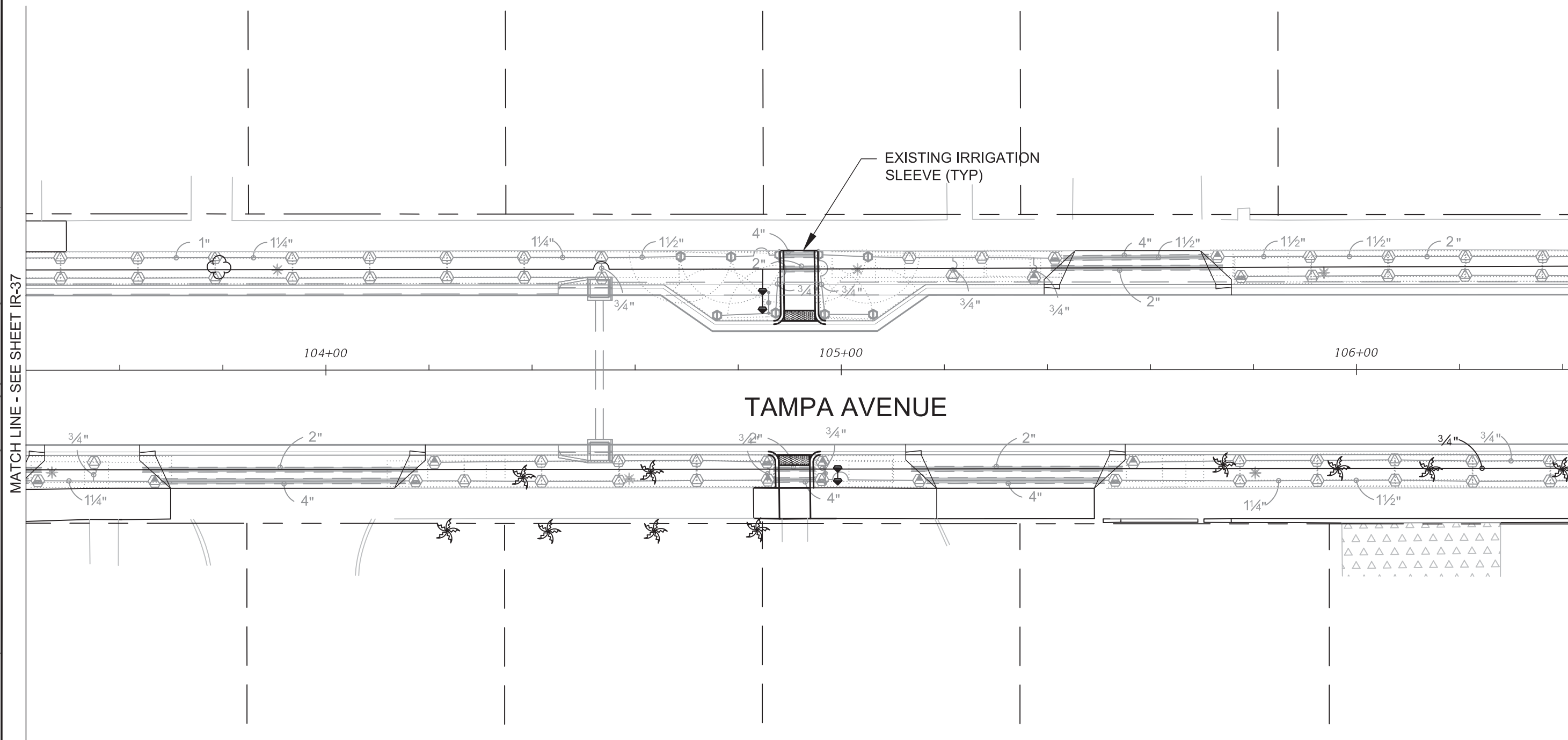
N.T.S.



				DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: MIAMI AVENUE ALTERNATE IRRIGATION DETAILS	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-36
Page 1084 of 1140				DRAWN <u>JLK</u>						
REV. NO.	DATE	DESCRIPTION		CHECKED <u>DL</u>						

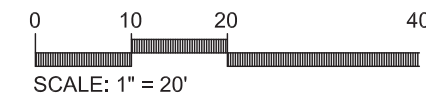






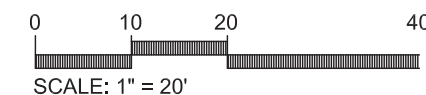
F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Hanging Basket (ALT3).dwg, Feb 28, 2018 - 3:10pm



Page 1086 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-38
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



				DESIGNED <u>HLB</u>	PREPARED FOR:		PREPARED BY:		PROJECT:		DESCRIPTION:		APPROVED BY:		DATE:
									CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS		PLANT HANGER ALTERNATE IRRIGATION PLAN				----
				DRAWN <u>JLK</u>											PROJECT NO.: 100054389
				CHECKED <u>DL</u>											SHEET: IR-39
Page 1087 of 1140															
REV. NO.	DATE	DESCRIPTION													
													HARRY L. BELTON, RLA FLA. REG. NO 900		



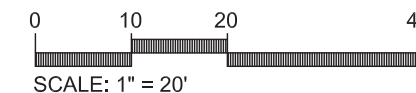
			DESIGNED <u>HLB</u>				PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO. 900	DATE: ----
			DRAWN <u>JLK</u>							PROJECT NO.: 100054389
Page 1088 of 1140			CHECKED <u>DL</u>							SHEET: IR-40
REV. NO.	DATE	DESCRIPTION								



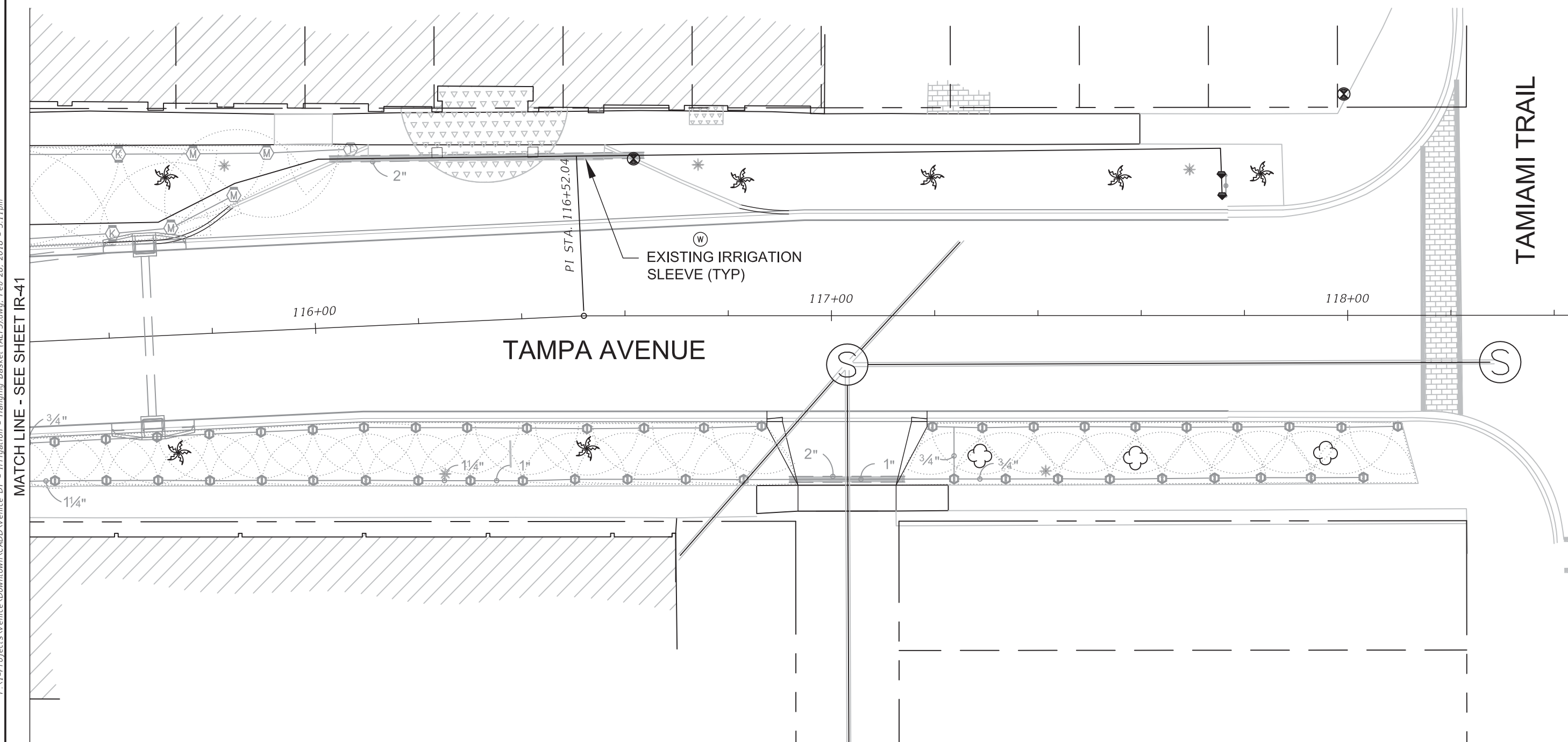
REV. NO.	DATE	DESCRIPTION
----------	------	-------------

PROJECT NO.:
100054389



SHEET:
1R-41

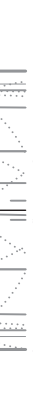
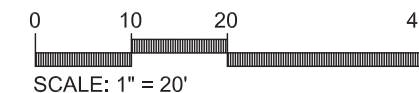


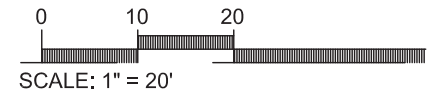
TAMIAMI TRAIL



MATCH LINE - SEE SHEET IR-41

				DESIGNED <u>HLB</u>			PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: _____ HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-42
Page 1000 of 1140	12/15/17	EXPANDED IRRIGATION		DRAWN <u>JLK</u>						
REV. NO.	DATE	DESCRIPTION		CHECKED <u>DL</u>						

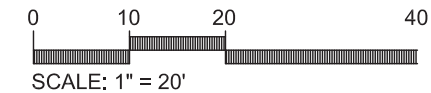




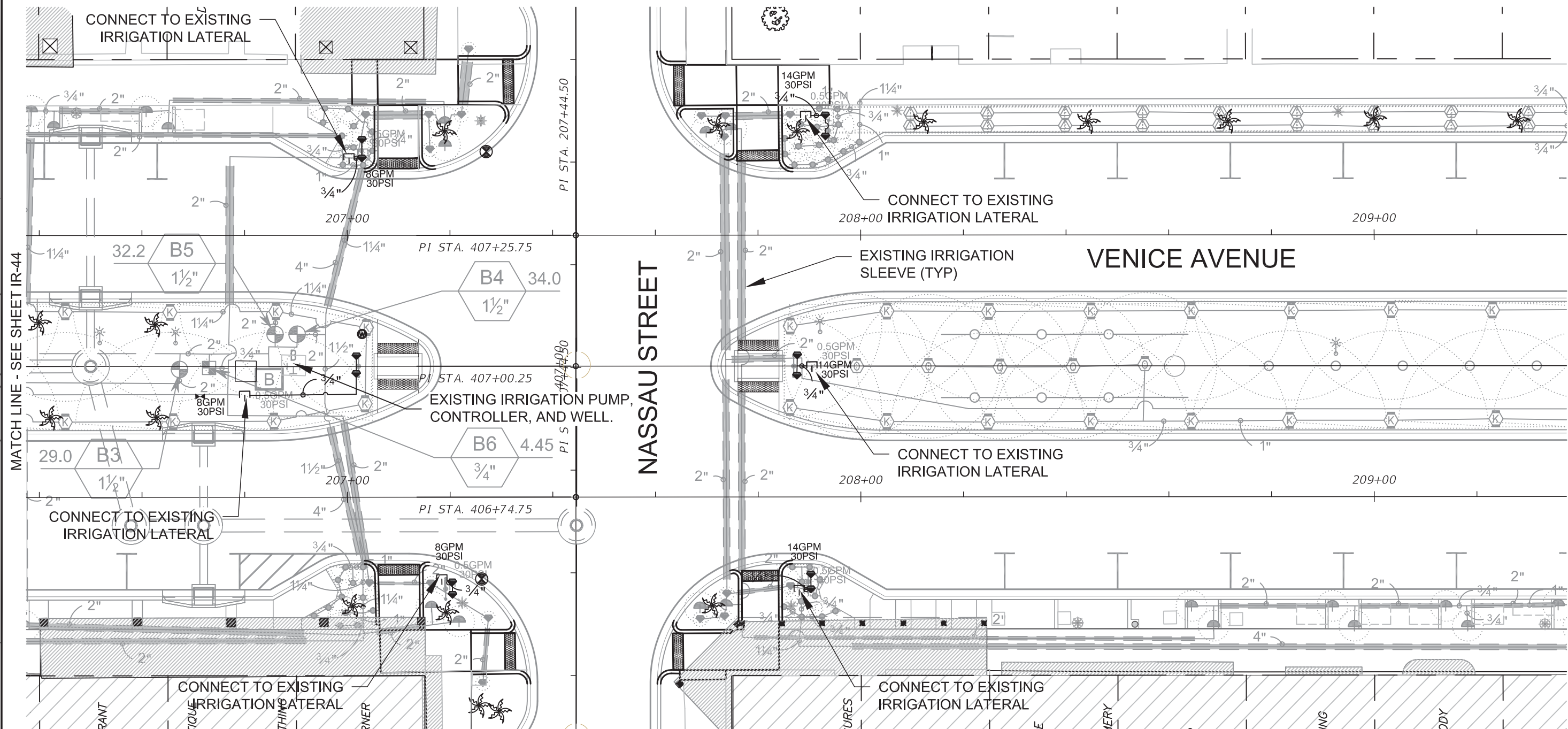
REV. NO.	DATE	DESCRIPTION
----------	------	-------------



PROJECT NO.:
100054389

SHEET:
IR-44

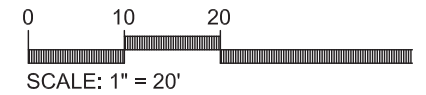


F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Hanging Basket (ALT3).dwg, Feb 28, 2018 - 3:12pm



Page 1093 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: _____ PROJECT NO.: 100054389 SHEET: IR-45
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

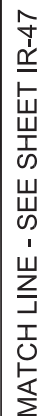
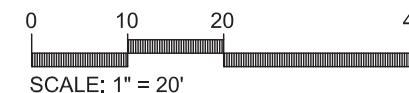


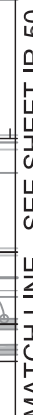
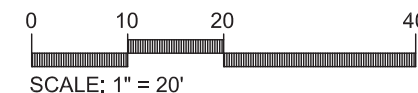


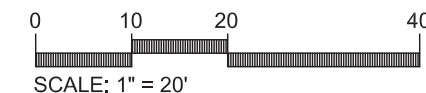
MATCH LINE - SEE SHEET IR-46

MATCH LINE - SEE SHEET IR-48

			DESIGNED <u>HLB</u>			PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-47
			DRAWN <u>JLK</u>							
			CHECKED <u>DL</u>							
Page 1095 of 1140 REV. NO. DATE DESCRIPTION										

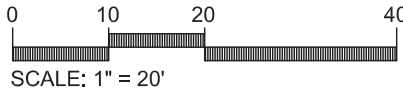
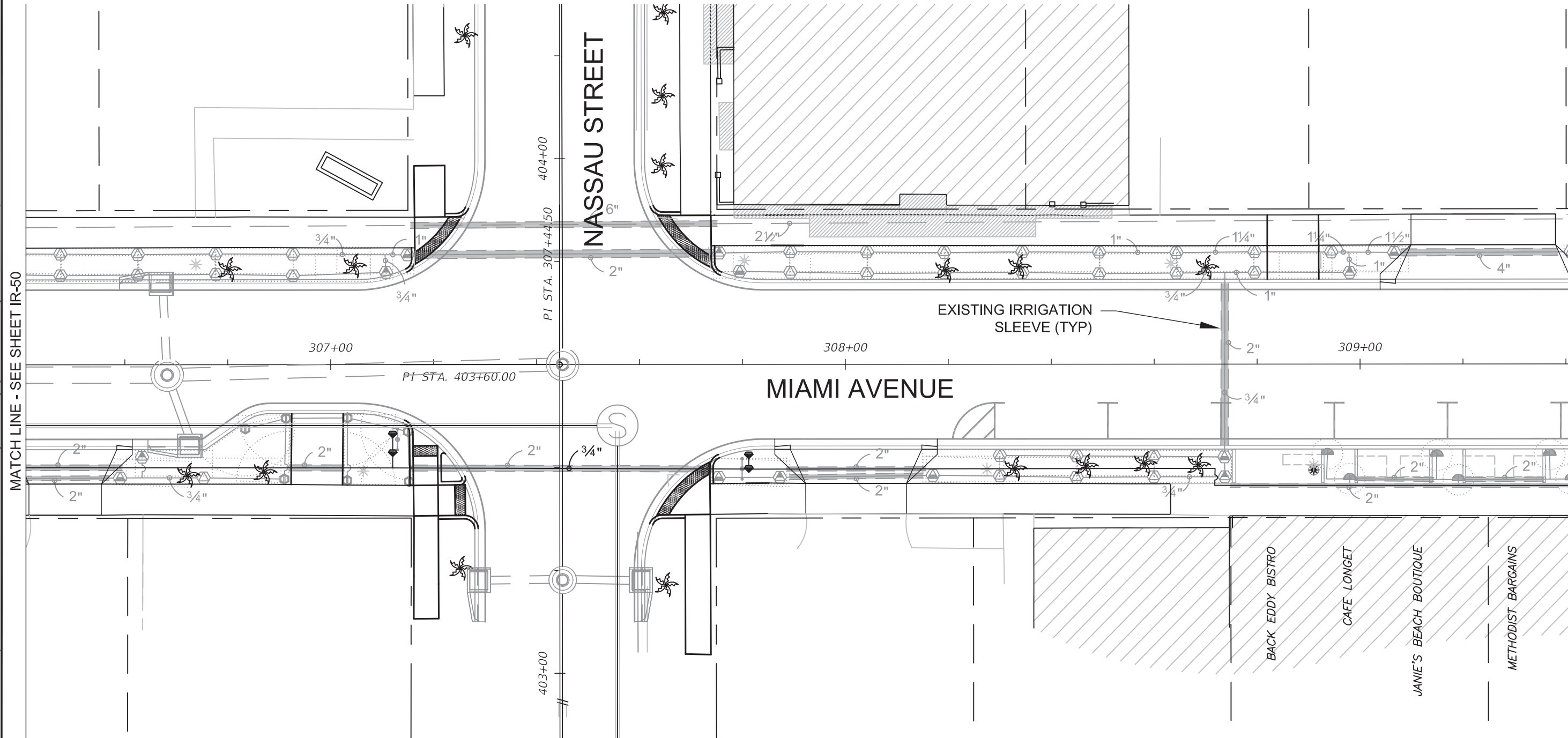






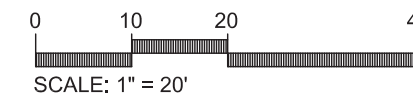


PROJECT NO.: 100054389
SHEET: IR-50

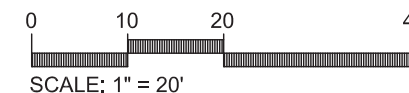
F:\1-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Hanging Basket (ALT3).dwg, Feb 28, 2018 - 3:18pm



Page 1099 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-51
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						

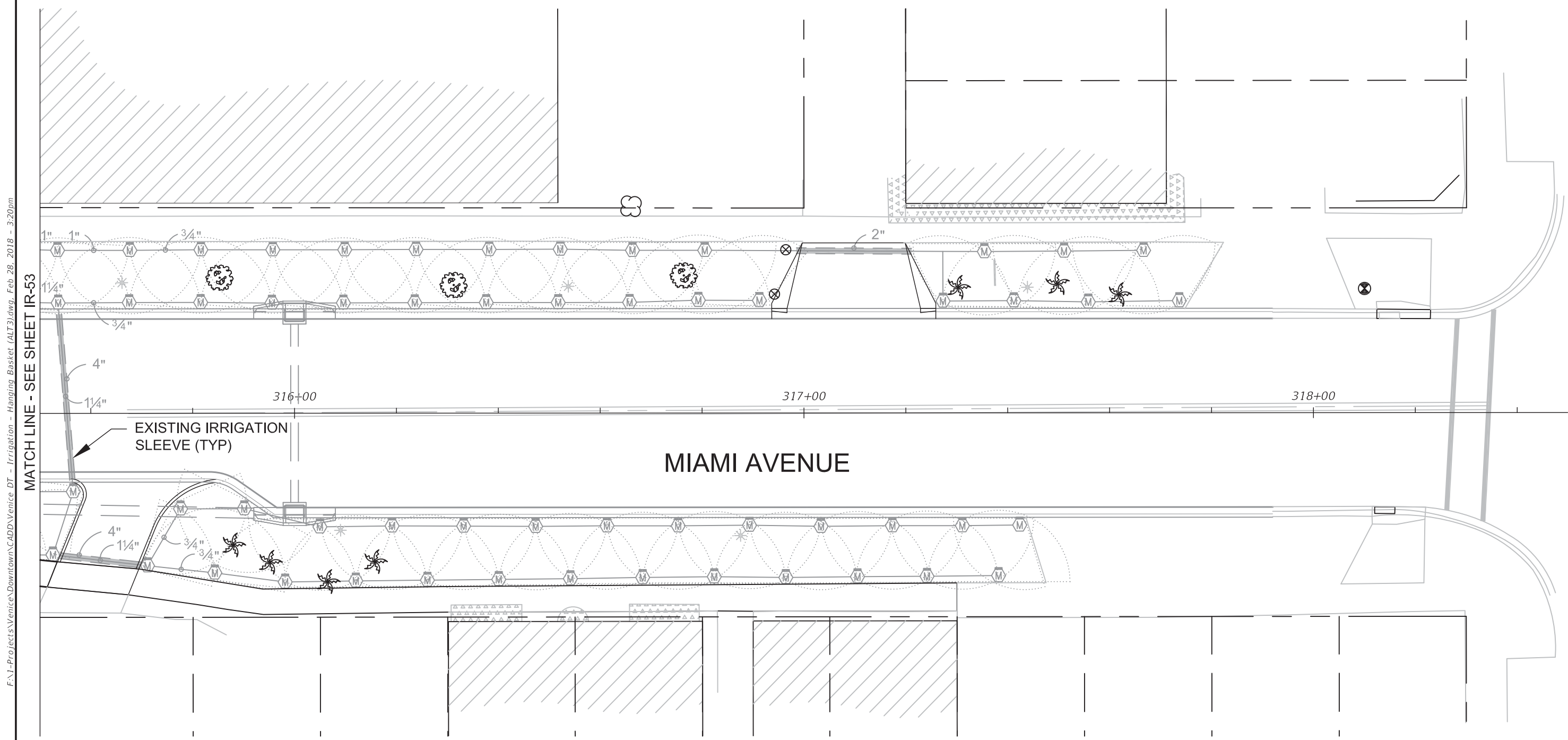
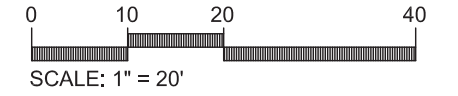


PROJECT NO.: 100054389
SHEET: IR-52





REV. NO.	DATE	DESCRIPTION
----------	------	-------------

PROJECT NO.: 100054389
SHEET: IR-53





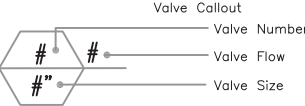


F:\I-Projects\Venice\Downtown\CADD\Venice_DT - Irrigation - Hanging Basket (ALT3).dwg, Feb 28, 2018 - 3:20pm

Page 1102 of 1140			DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION PLAN	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-54
REV. NO.	DATE	DESCRIPTION	DRAWN <u>JLK</u> CHECKED <u>DL</u>						



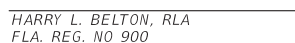
F:\I-Projects\Venice\Downtown\CADD\Venice.DT - Irrigation - Hanging Basket (ALT3).dwg, Feb 28, 2018 - 3:20pm

IRRIGATION SCHEDULE

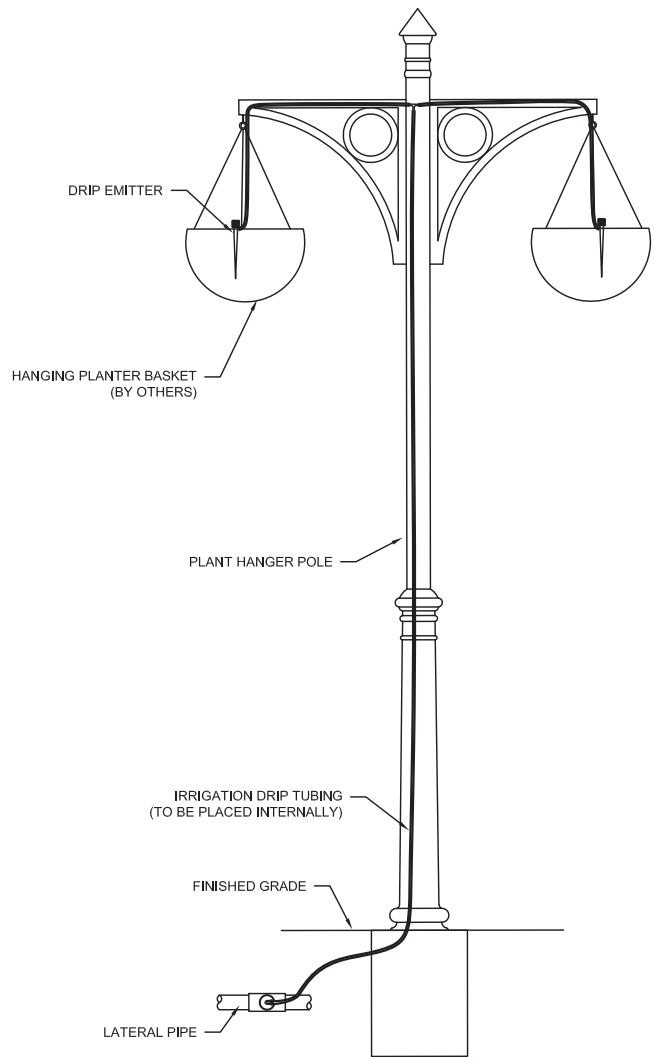
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Hunter ACZ-075-25 Drip control kit featuring a 3/4" PGV-ASV valve, with 3/4" HY075 filter system, and 25psi pressure regulated. Flow range: 0.5 GPM to 15 GPM. With 150 mesh stainless steel screen.	1	
	Hunter SD-B-STK Drip 360 Micro Spray for Residential/Commercial Use. Eight streams of water, with 360 degree spray. 15psi to 30psi. Solo-Drip with Barb and 6" Stake.	84	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Irrigation Lateral Line: CPVC Schedule 40	5,435 l.f.	
	Irrigation Mainline: CPVC Schedule 40	4.5 l.f.	
			

IRRIGATION NOTES :

1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
3. PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY.
4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
6. THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION.
7. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATED ON SITE, CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO EXCAVATION.
8. ZONE LINES ARE DESIGNED TO PERFORM AT 40 PSI AT THE LAST HEAD FOR ROTARY SPRAY AND BUBBLER ZONES AND 30 PSI AT THE LAST HEAD FOR DRIP EMITTERS. APPROPRIATE PRESSURE REGULATING ITEMS SHALL BE INSTALLED AS NOTED IN THE PLANS.
9. ZONE LINE PIPING SHALL BE CLASS 200 PVC PLASTIC PIPE OR APPROVED EQUAL.
10. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 40 PVC INSTALLED 18" BELOW THE FINISHED GRADE AND 36" BELOW FINISHED GRADE OF ROADWAY. FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
11. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 40 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE RECEIVING PIPE.
12. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
13. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING. NO VALVE ENCLOSURES SHALL BE INSTALLED WITHIN A FENCED IN PLAYING SURFACE WITH THE EXCEPTION OF THE QUICK COUPLING VALVES FOR THE BASEBALL FIELDS.
14. INCLUDE INSTALLATION OF 30MIL, 12 AWG TRACER WIRE ALONG THE MAINLINE.
15. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES. MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE, WATERPROOF CONNECTORS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE LAST VALVE IN EACH DIRECTION.
16. CONTRACTOR SHALL INCLUDE THE COST OF DRILLING AND STABILIZING NEW WELLS AS CALLED OUT IN THE PLANS.
17. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
18. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS. THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE.
19. ALL EXISTING IRRIGATION, INCLUDING ADJACENT SYSTEMS THAT MAY SHARE A WATER SOURCE, SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT NEW IRRIGATION MAIN INSTALLATION DOES NOT DISRUPT EXISTING IRRIGATION ACTIVITIES THROUGHOUT THE PROJECT AREA.
20. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
21. IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEM SHALL BE FULLY REPAIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
22. AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE:
 - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED
 - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE INSTALLED
 - AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
23. BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH TOWN STAFF IN THE FIELD. THIS MEETING WILL INFORM THE TOWN'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
24. UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, IRRIGATION WELL PERMITS AND CONDITIONS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

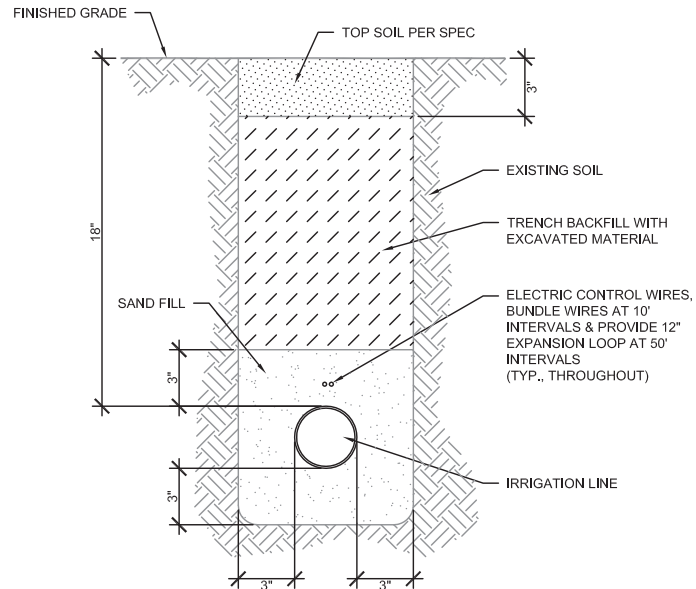
				DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIG SCHEDULE & NOTES	APPROVED BY:  HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-55
Page 11 of 14	1103511140	QUANTITIES UPDATED		DRAWN <u>JLK</u>						
REV. NO.	DATE	DESCRIPTION		CHECKED <u>DL</u>						

F:\I-Projects\Venice\Downtown\CADD\Venice DT - Irrigation - Hanging Basket (ALT3).dwg, Feb 28, 2018 - 3:20pm



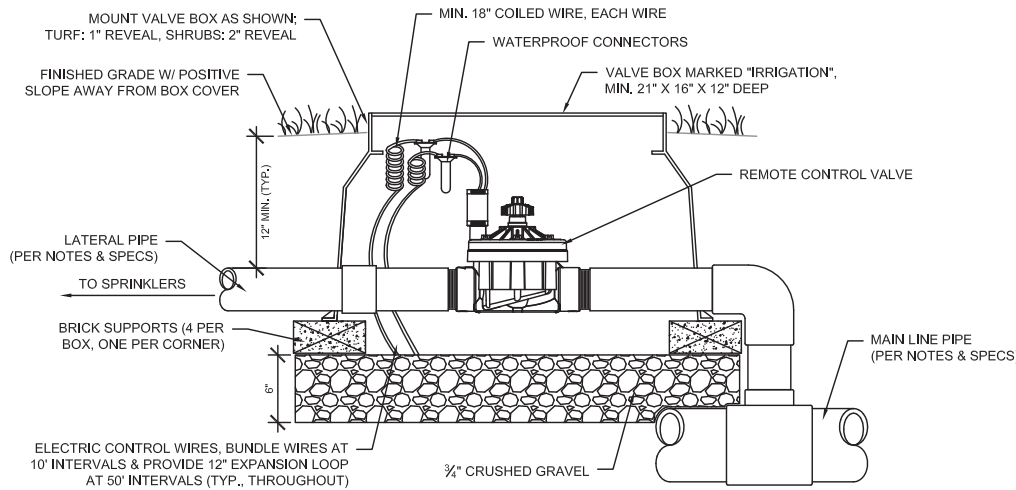
HANGING BASKET DRIP IRRIGATION

N.T.S.





TRENCHING DETAIL

N.T.S.



REMOTE CONTROL VALVE INSTALLATION

N.T.S.

				DESIGNED <u>HLB</u>	PREPARED FOR: 	PREPARED BY: 	PROJECT: CITY OF VENICE DOWNTOWN ROADWAY CORRIDOR IMPROVEMENTS	DESCRIPTION: PLANT HANGER ALTERNATE IRRIGATION DETAILS	APPROVED BY: HARRY L. BELTON, RLA FLA. REG. NO 900	DATE: ---- PROJECT NO.: 100054389 SHEET: IR-56
Page 1104 of 1140				DRAWN <u>JLK</u>						
REV. NO.	DATE	DESCRIPTION		CHECKED <u>DL</u>						