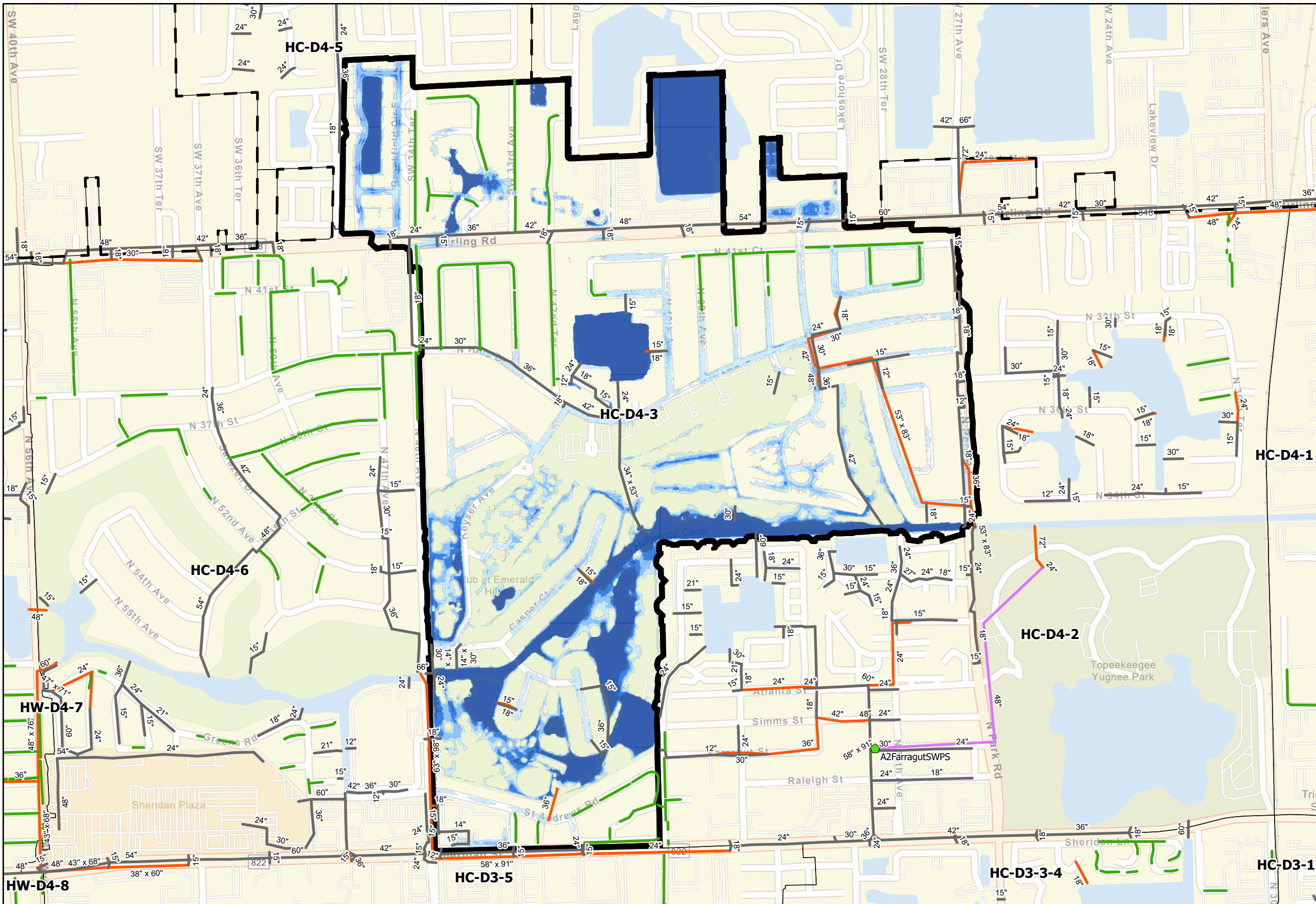




- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Force mains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Force mains
 - Alt 2 Detention Pond

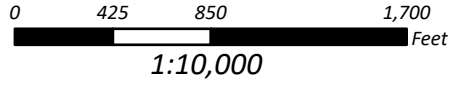
10-Year ALT 2 Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 2 CIP for 10-year Design Storm in CIP Area Emerald Hills / Stirling Commercial District

City of Hollywood Stormwater Master Plan
HC-D4-3_ALT2-10
2/28/2023



		CONCEPTUAL CAPITAL COST ESTIMATE						Emerald Hills		
								Alternative 1		
PUMP STATIONS WITH FORCE MAINS										
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$ -	
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$ -	
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$ -	
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$ -	
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$ -	
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	0	\$ -	
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$ -	
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$ -	
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$ -	
0010	11		IWI-Injection Wells-Inline			EA	\$ 65,000.00	0	\$ -	
0011	12		IWO-Injection Wells -Offline			EA	\$ 75,000.00	0	\$ -	
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -	
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -	
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -	
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -	
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -	
NIN SUBTOTAL									\$ -	
EXFILTRATION WITH GRAVITY MAINS								Emerald Hills		
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector		Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector		Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector		Circular	LF	\$ 48.00	695	\$ 33,360
0024	24	30		GM-Gravity Main Collector		Circular	LF	\$ 52.00	660	\$ 34,320
0026	25	36		GM-Gravity Main Collector		Circular	LF	\$ 80.00	5,380	\$ 430,400
0028	26	42		GM-Gravity Main Collector		Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector		Circular	LF	\$ 125.00	2,015	\$ 251,875
0030	28	54		GM-Gravity Main Collector		Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector		Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector		Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector		Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 410.00	2,465	\$ 1,010,650
0044	41	68	106	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48			GBP-Gravity Backflow Pipe <36"			Ea	\$ 35,000.00	2	\$ 70,000
0052	49			GBP-Gravity Backflow Pipe >36"			Ea	\$ 70,000.00	1	\$ 70,000
0053	5			GW-Gravity Wells			EA	\$ 105,000.00	0	\$ -
0054	4	48		ET-Exfiltration Trench			LF	\$ 250.00	14,880	\$ 3,720,000
0056	50			Weir Box CS			EA	\$ 7,500.00	0	\$ -
0057	53			CS-22 Remod			EA	\$ 200,000.00	0	\$ -
0058	55			SW-04 Remod			EA	\$ 150,000.00	0	\$ -
0055				Gravity Structures-Inlets			EA	\$ 30,000.00	217	\$ 6,523,750
0059	56			Ditch Improvement			LF	\$ 50.00	0	\$ -
0091	57			Swale/Ditch Headwall			Ea	\$ 10,000.00	0	\$ -
0090	10			Exfil_End Weir			Ea	\$ 5,000.00	0	\$ -
0092	51			Ret/Det Pond			CUY	\$ 355.00	0	\$ -
								#N/A	#VALUE!	#VALUE!
								#N/A	#VALUE!	#VALUE!
GRAVITY MAIN SUBTOTAL							#N/A		\$ 12,144,355	
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	26,097	\$ 7,046,190	
CONSTRUCTION COST SUBTOTAL									\$ 19,190,545	
GENERAL CONDITIONS								Emerald Hills		
0061		Mobilization				LS	4%	\$ 19,190,545	\$ 767,622	
0062		Insurance and General Conditions				LS	2%	\$ 19,190,545	\$ 383,811	
0063		Permits/Fees				LS	2%	\$ 19,190,545	\$ 383,811	
0064		Maintenance of Traffic				LS	3%	\$ 19,190,545	\$ 575,716	
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 19,190,545	\$ 2,878,582	
0066		Construction Engineering Inspection Costs				LS	4%	\$ 19,190,545	\$ 767,622	
0067		OCI Management Cost				LS	15%	\$ 19,190,545	\$ 2,878,582	
0068		Project Contingency Costs				LS	30%	\$ 19,190,545	\$ 5,757,164	
Land acquisition										
NS SUBTOTAL									\$ 14,392,909	
TOTAL									\$ 33,583,454	

		CONCEPTUAL CAPITAL COST ESTIMATE							Emerald Hills			
PUMP STATIONS WITH FORCE MAINS											Alternative 2	
ITEM #	Master Sheet Index	DIAMETER (INCHES)			DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL		
0001	13	24			FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -		
0002	14	36			FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -		
0003	15	42			FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -		
0004	16	48			FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -		
0005	17	54			FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -		
0006	18	60			FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -		
0007	19	66			FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -		
0008	20	72			FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -		
0009	225	24			FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -		
0010	11				IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -		
0011	12				IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -		
0012	6	PS-Storm Drainage Pump Stations < 166 cfs				I	EA	\$ 2,400,000.00	0	\$ -		
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs				II	EA	\$ 3,500,000.00	0	\$ -		
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs				III	EA	\$ 4,900,000.00	0	\$ -		
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs				IV	EA	\$ 6,750,000.00	0	\$ -		
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS					EA	\$ 8,000,000.00	0	\$ -		
IN SUBTOTAL										\$ -		
EXFILTRATION WITH GRAVITY MAINS											Emerald Hills	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL		
0022	22	21			GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -		
0021	21	18			GM-Gravity Main Collector	Circular	LF	\$ 45.00	510	\$ 22,950		
0023	23	24			GM-Gravity Main Collector	Circular	LF	\$ 48.00	660	\$ 31,680		
0024	24	30			GM-Gravity Main Collector	Circular	LF	\$ 52.00	575	\$ 29,900		
0026	25	36			GM-Gravity Main Collector	Circular	LF	\$ 80.00	725	\$ 58,000		
0028	26	42			GM-Gravity Main Collector	Circular	LF	\$ 115.00	280	\$ 32,200		
0029	27	48			GM-Gravity Main Collector	Circular	LF	\$ 125.00	180	\$ 22,500		
0030	28	54			GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -		
0031	29	60			GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -		
0032	30	66			GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -		
0033	31	72			GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -		
0035	32	29	45		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -		
0036	33	32	49		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -		
0037	34	34	53		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -		
0038	35	38	60		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -		
0039	36	43	68		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -		
0040	37	48	76		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -		
0041	38	53	83		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	2,465	\$ 1,064,880		
0042	39	58	91		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -		
0043	40	63	98		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -		
0044	41	68	106		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -		
0045	42	72	113		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -		
0046	43	82	128		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -		
0048	44	72	120		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -		
0072	45	72	72		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -		
0049	46	72	96		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -		
0050	47	96	96		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -		
0051	48				GBP-Gravity Backflow Pipe <36"	Ea	\$ 35,000.00	2	\$ 70,000			
0052	49				GBP-Gravity Backflow Pipe >36"	Ea	\$ 70,000.00	1	\$ 70,000			
0053	5				GW-Gravity Wells	EA	\$ 105,000.00	0	\$ -			
0054	4	48			ET-Exfiltration Trench	LF	\$ 250.00	13,133	\$ 3,283,250			
0055	50				Weir Box CS	EA	\$ 30,000.00	0	\$ -			
0057	53				CS-22 Remod	EA	\$ 525,000.00	0	\$ -			
0058	55				SW-04 Remod	EA	\$ 150,000.00	0	\$ -			
0056					Gravity Structures-Inlets	EA	\$ 7,500.00	154	\$ 1,158,000			
0059	56				Ditch Improvement	LF	\$ 50.00	0	\$ -			
0091	57				Swale/Ditch Headwall	Ea	\$ 10,000.00	0	\$ -			
0090	10				Exfil End Weir	Ea	\$ 5,000.00	0	\$ -			
0092	51				Ret/Det Pond	CUY	\$ 355.00	0	\$ -			
							#N/A	#VALUE!	#VALUE!			
							#N/A	#VALUE!	#VALUE!			
							#N/A	#VALUE!	#VALUE!			
GRAVITY MAIN SUBTOTAL									\$ 5,843,360			
0060		Pavement Restoration including Pavement Marking (Full Road)					LF	\$ 270.00	18,530	\$ 5,003,100		
CONSTRUCTION COST SUBTOTAL									\$ 10,846,460			
GENERAL CONDITIONS											Emerald Hills	
0061		Mobilization					LS	4%	\$ 10,846,460	\$ 433,858		
0062		Insurance and General Conditions					LS	2%	\$ 10,846,460	\$ 216,929		
0063		Permits/Fees					LS	2%	\$ 10,846,460	\$ 216,929		
0064		Maintenance of Traffic					LS	3%	\$ 10,846,460	\$ 325,394		
0065		Engineering Design & CA Oversight Costs					LS	15%	\$ 10,846,460	\$ 1,626,969		
0066		Construction Engineering Inspection Costs					LS	4%	\$ 10,846,460	\$ 433,858		
0067		OCI Management Cost					LS	15%	\$ 10,846,460	\$ 1,626,969		
0068		Project Contingency Costs					LS	30%	\$ 10,846,460	\$ 3,253,938		
NS SUBTOTAL										\$ 8,134,845		
TOTAL										\$ 18,981,305		

- **Figure HC-D4-3-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HC-D4-3-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HC-D4-3-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HC-D4-3-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HC-D4-3-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HC-D4-3_ALT1 – Planning Budget for Alternative 1 Proposed CIP**
- **Table HC-D4-3_ALT2 – Planning Budget for Alternative 2 Proposed CIP**

3.2.2.5 CIP Area HC-D4-2 (Emerald Hills / TY Park)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, mixed commercial and residential land use, and park. South of the canal is the lowest area. A large system exists which is not sufficient to flow by gravity into the canal.

Alternative 1

Proposed CIP:

- New Farragut SWPS Type I total capacity of 140 cfs pumping into a new proposed dry detention area located in the landscape area in TY Park with via twin 2,650 l.f. 48-inch FMs located in City R/O/W at the west end of Farragut St in the grass near the Sheridan Hills Baptist Church park.
- Acquire a new 4.5 Acre TY Park Dry detention area merged into the landscape area of the park with a 24-inch pipe discharge, low-flow orifice bleeder and BFP (or an inlet structure box) at a bottom elevation area of EL 3 NAVD, bermed perimeter at EL 8 NAVD, and a 20-ft wide spillway at 7 NAVD and a 72-inch pipe into the C-10 spur canal.
- New gravity collection systems and inlets in CIP neighborhoods to new SWPS.
- New 3,730 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-30 post-5

Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2**Proposed CIP:**

- New Farragut SWPS Type I total capacity of 120 cfs pumping into a new proposed dry detention area located in the landscape area in TY Park with via twin 2,650 l.f. 42-inch FMs located in City R/O/W at the west end of Farragut St in the grass near the Sheridan Hills Baptist Church park.
- Acquire a new 4.5 Acre TY Park Dry detention area merged into the landscape area of the park with a 24-inch pipe discharge, low-flow orifice bleeder and BFP (or an inlet structure box) at a bottom elevation area of EL 3 NAVD, bermed perimeter at EL 8 NAVD, and a 20-ft wide spillway at 7 NAVD and a 72-inch pipe into the C-10 spur canal.
- New gravity collection systems and inlets in CIP area neighborhoods to the new SWPS.
- New 1,885 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-30 post-8

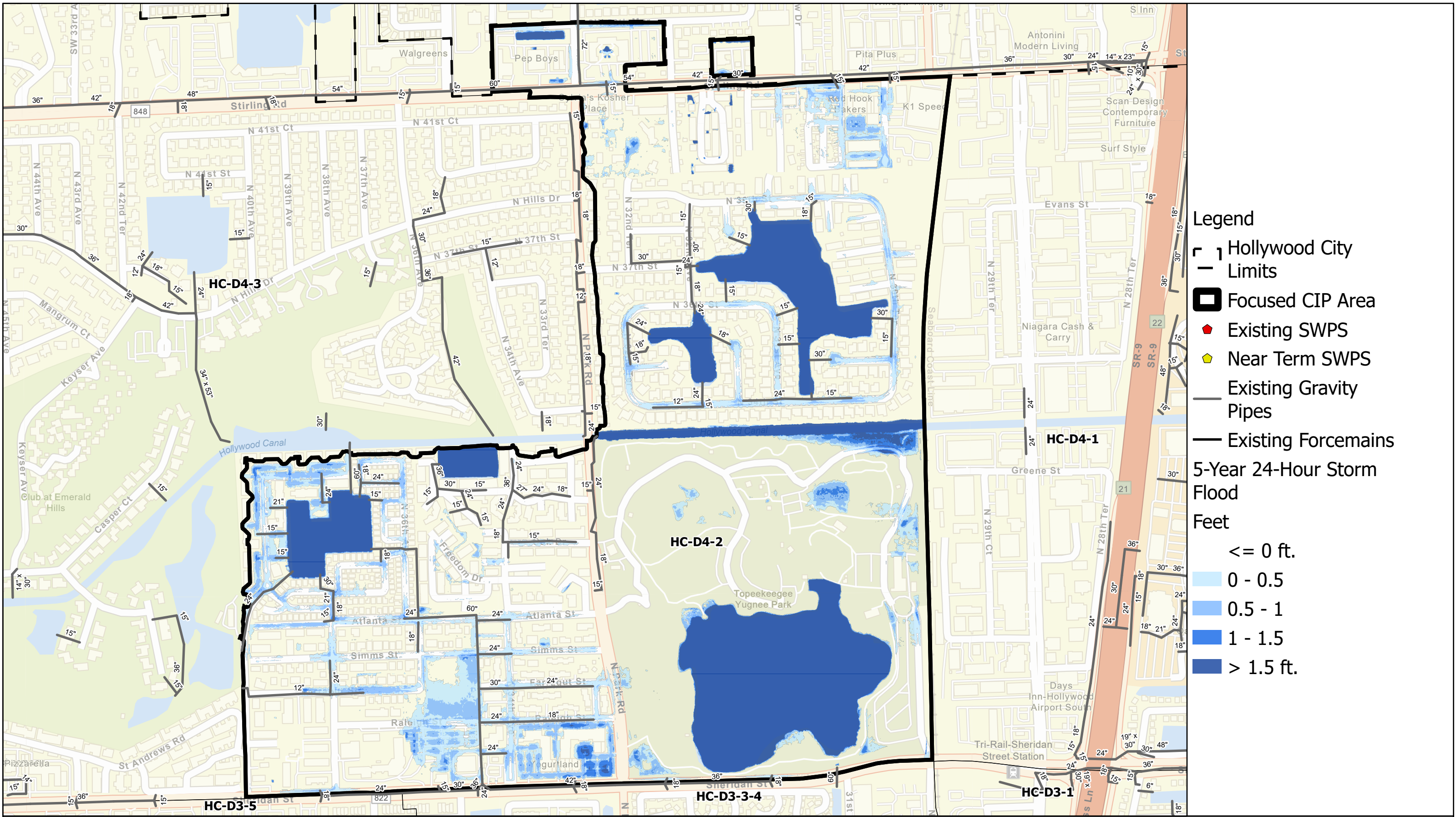
Summary of Offsite Issues Affecting CIP Area:

1. None.

HC-D4-2 Pre-Post CIP Flood Inundation Maps

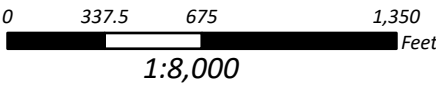
The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

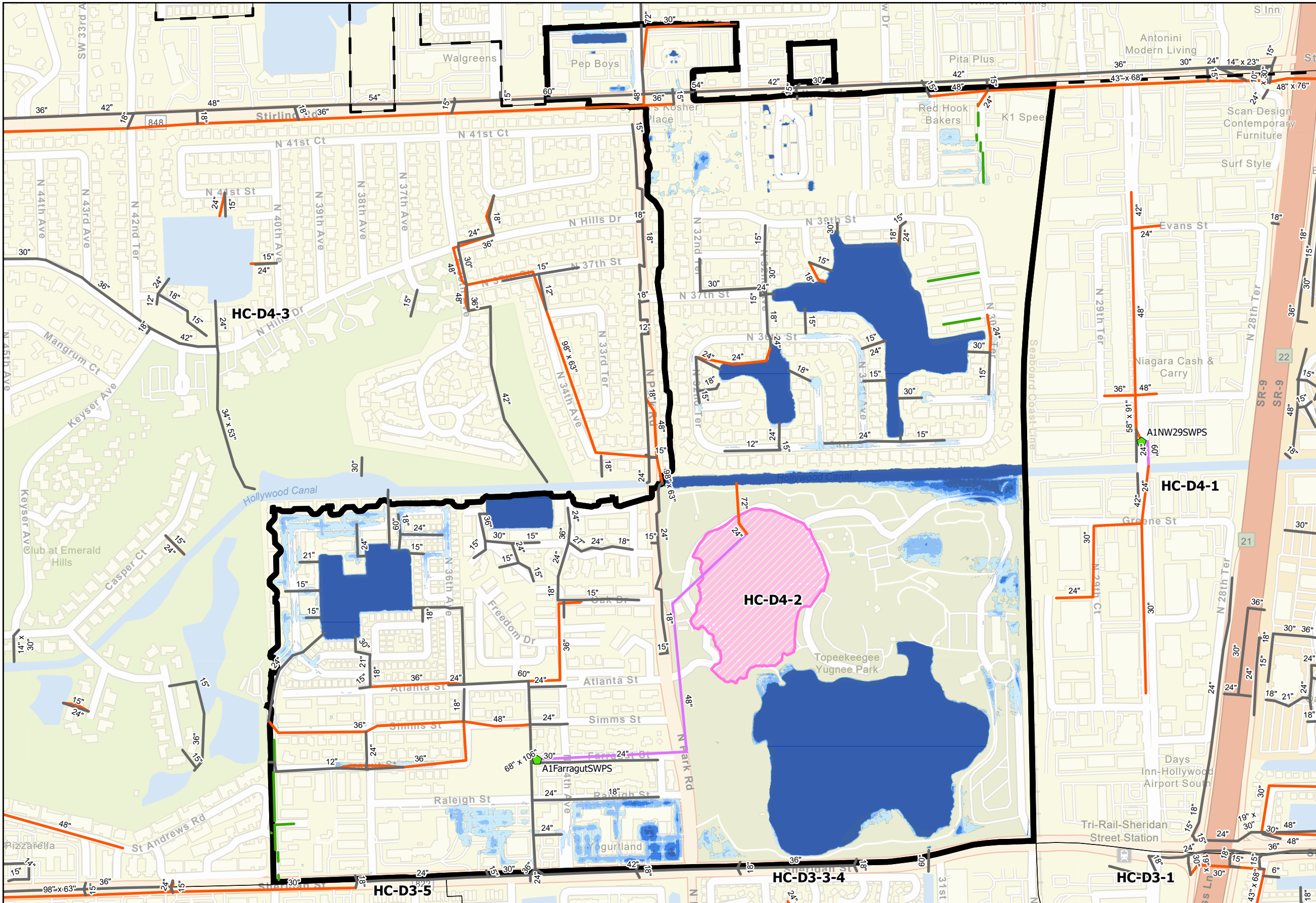
- **Figure HC-D4-2-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HC-D4-2-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HC-D4-2-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HC-D4-2-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HC-D4-2-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HC-D4-2-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HC-D4-2_ALT1 - Planning Budget for Alternative 1 Proposed CIP**
- **Table HC-D4-2_ALT2 - Planning Budget for Alternative 2 Proposed CIP**



Current Conditions Flooding in CIP Area
Emerald Hills / TY Park
5-year Design Storm

City of Hollywood Stormwater Master Plan
HC-D4-2_EC-5
2/28/2023





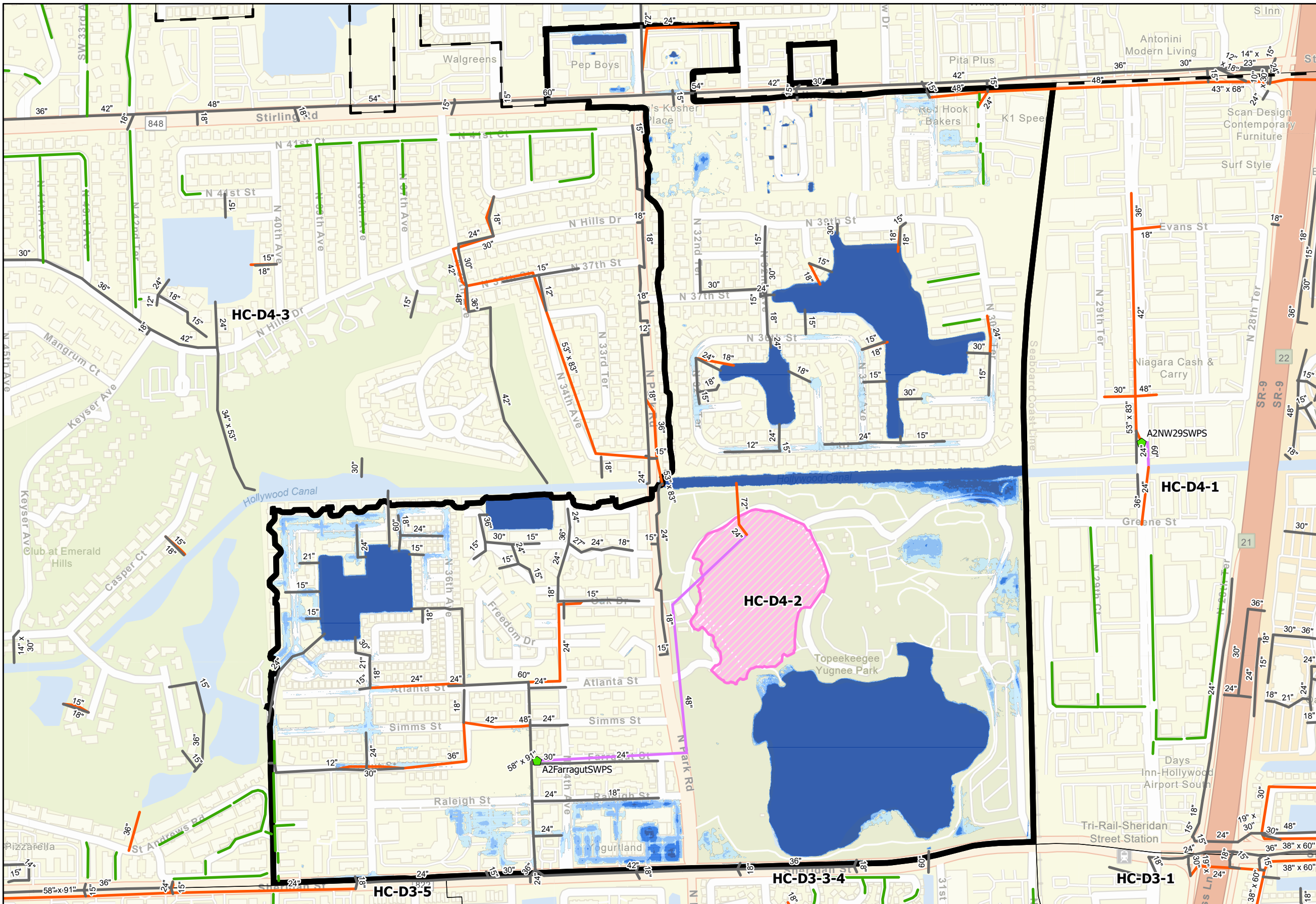
- Legend**
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond
 - 5-Year ALT 1 Storm Flood Feet
 - <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.

Predicted Flooding Reduction and Proposed ALT 1
CIP for 5-year Design Storm in CIP Area
Emerald Hills / TY Park

City of Hollywood Stormwater Master Plan
HC-D4-2_ALT1-5
2/28/2023



0 337.5 675 1,350
1:8,000
Feet



- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Force mains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Force mains
 - Alt 2 Detention Pond
 - 5-Year ALT 2 Storm Flood Feet
 - <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.

			CONCEPTUAL CAPITAL COST ESTIMATE					Emerald Hills and TY Park	
								Alternative 1	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$ -
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$ -
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$ -
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	5,300	\$ 3,243,600
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$ -
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$ -
0010	11		IWI-Injection Wells-Inline			EA	\$ 65,000.00	0	\$ -
0011	12		IWO-Injection Wells- Offline			EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	1	\$ 2,400,000
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
NN SUBTOTAL									\$ 5,643,600
EXFILTRATION WITH GRAVITY MAINS								Emerald Hills and TY Park	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	150	\$ 6,750
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	860	\$ 41,280
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	0	\$ -
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	4,455	\$ 356,400
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	465	\$ 58,125
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	300	\$ 145,500
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	200	\$ 92,000
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48			GBP-Gravity Backflow Pipe <36"		Ea	\$ 35,000.00	1	\$ 35,000
0052	49			GBP-Gravity Backflow Pipe >36"		Ea	\$ 70,000.00	0	\$ -
0053	5			GW-Gravity Wells		EA	\$ 105,000.00	0	\$ -
0054	4	48		ET-Exfiltration Trench		LF	\$ 250.00	3,730	\$ 932,500
0056	50			Weir Box CS		EA	\$ 7,500.00	1	\$ 7,500
0057	53			CS-22 Remod		EA	\$ 200,000.00	0	\$ -
0058	55			SW-04 Remod		EA	\$ 150,000.00	0	\$ -
0055				Gravity Structures-Inlets		EA	\$ 30,000.00	95	\$ 2,858,000
0059	56			Ditch Improvement		LF	\$ 50.00	0	\$ -
0091	57			Swale/Ditch Headwall		Ea	\$ 10,000.00	0	\$ -
0090	10			Exfil_End Weir		Ea	\$ 5,000.00	0	\$ -
0092	51			Ret/Det Pond		CUY	\$ 355.00	5	\$ 1,598
								#N/A	#VALUE!
								#N/A	#VALUE!
								#N/A	#VALUE!
GRAVITY MAIN SUBTOTAL									\$ 4,533,055
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	15,461	\$ 4,174,470
CONSTRUCTION COST SUBTOTAL									\$ 14,351,125
GENERAL CONDITIONS								Emerald Hills and TY Park	
0061		Mobilization				LS	4%	\$ 14,351,125	\$ 574,045
0062		Insurance and General Conditions				LS	2%	\$ 14,351,125	\$ 287,023
0063		Permits/Fees				LS	2%	\$ 14,351,125	\$ 287,023
0064		Maintenance of Traffic				LS	3%	\$ 14,351,125	\$ 430,534
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 14,351,125	\$ 2,152,669
0066		Construction Engineering Inspection Costs				LS	4%	\$ 14,351,125	\$ 574,045
0067		OCI Management Cost				LS	15%	\$ 14,351,125	\$ 2,152,669
0068		Project Contingency Costs				LS	30%	\$ 14,351,125	\$ 4,305,338
Land acquisition									
NS SUBTOTAL									\$ 10,763,344
TOTAL									\$ 25,114,464

		CONCEPTUAL CAPITAL COST ESTIMATE						Emerald Hills and TY Park		
								Alternative 2		
PUMP STATIONS WITH FORCE MAINS										
ITEM #	Master Sheet Index	DIAMETER (INCHES)			DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24			FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -
0002	14	36			FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -
0003	15	42			FM- Force Main Collector	Circular	LF	\$ 336.00	5,300	\$ 1,780,800
0004	16	48			FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -
0005	17	54			FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -
0006	18	60			FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66			FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72			FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24			FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -
0010	11				IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -
0011	12				IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	1	\$ 2,400,000	
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -	
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -	
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -	
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -	
IN SUBTOTAL									\$ 4,180,800	
EXFILTRATION WITH GRAVITY MAINS								Emerald Hills and TY Park		
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21		GM-Gravity Main Collector		Circular	LF	\$ 45.00	0	\$ -
0021	21	18		GM-Gravity Main Collector		Circular	LF	\$ 45.00	645	\$ 29,025
0023	23	24		GM-Gravity Main Collector		Circular	LF	\$ 48.00	1,965	\$ 94,320
0024	24	30		GM-Gravity Main Collector		Circular	LF	\$ 52.00	450	\$ 23,400
0026	25	36		GM-Gravity Main Collector		Circular	LF	\$ 80.00	705	\$ 56,400
0028	26	42		GM-Gravity Main Collector		Circular	LF	\$ 115.00	400	\$ 46,000
0029	27	48		GM-Gravity Main Collector		Circular	LF	\$ 125.00	65	\$ 8,125
0030	28	54		GM-Gravity Main Collector		Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector		Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector		Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector		Circular	LF	\$ 485.00	300	\$ 145,500
0035	32	29	45	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 320.00	200	\$ 64,000
0043	40	63	98	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48	GBP-Gravity Backflow Pipe <36"				Ea	\$ 35,000.00	1	\$ 35,000	
0052	49	GBP-Gravity Backflow Pipe >36"				Ea	\$ 70,000.00	0	\$ -	
0053	5	GW-Gravity Wells				EA	\$ 105,000.00	0	\$ -	
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	1,885	\$ 471,250	
0055	50	Weir Box CS				EA	\$ 30,000.00	1	\$ 30,000	
0057	53	CS-22 Remod				EA	\$ 525,000.00	0	\$ -	
0058	55	SW-04 Remod				EA	\$ 150,000.00	0	\$ -	
0056		Gravity Structures-Inlets				EA	\$ 7,500.00	66	\$ 492,938	
0059	56	Ditch Improvement				LF	\$ 50.00	0	\$ -	
0091	57	Swale/Ditch Headwall				Ea	\$ 10,000.00	0	\$ -	
0090	10	Exfil End Weir				Ea	\$ 5,000.00	0	\$ -	
0092	51	Ret/Det Pond				CUY	\$ 355.00	5	\$ 1,598	
							#N/A	#VALUE!	#VALUE!	
							#N/A	#VALUE!	#VALUE!	
							#N/A	#VALUE!	#VALUE!	
GRAVITY MAIN SUBTOTAL								\$ 1,495,958		
0060		Pavement Restoration including Pavement Marking (Full Road)					LF	\$ 270.00	11,916	\$ 3,217,320
CONSTRUCTION COST SUBTOTAL									\$ 8,894,078	
GENERAL CONDITIONS								Emerald Hills and TY Park		
0061		Mobilization				LS	4%	\$ 8,894,078	\$ 355,763	
0062		Insurance and General Conditions				LS	2%	\$ 8,894,078	\$ 177,882	
0063		Permits/Fees				LS	2%	\$ 8,894,078	\$ 177,882	
0064		Maintenance of Traffic				LS	3%	\$ 8,894,078	\$ 266,822	
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 8,894,078	\$ 1,334,112	
0066		Construction Engineering Inspection Costs				LS	4%	\$ 8,894,078	\$ 355,763	
0067		OCI Management Cost				LS	15%	\$ 8,894,078	\$ 1,334,112	
0068		Project Contingency Costs				LS	30%	\$ 8,894,078	\$ 2,668,223	
NS SUBTOTAL									\$ 6,670,558	
TOTAL									\$ 15,564,636	

3.2.2.6 CIP Area HC-D4-1 (Oakwood Hills)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, mixed commercial and industrial land use. Topography is low and there is a high impervious without a lot of area for exfiltration. The area drains to the C-10 spur.

Alternative 1

Proposed CIP:

- Three new SWPSs for the CIP area:
 1. New StirlingE SWPS Type I at total 100 cfs total pumping into a new proposed 80 cfs pumped recharge wellfield (20 IWs at assumed 4 cfs each) and into a new 36-inch FM outfall with BFP into the C-10 canal, located at a parcel off of Stirling Rd (or in an adjacent vacant parcel of City of Dania Beach).
 2. New N29 SWPS Type II at total 220 cfs total pumping into a new 60-inch FM outfall with BFP into the C-10 canal, located in the grassy area adjacent to the canal east of I-95 at N 29th Ave north of the canal south of Pershing Street.
 3. New BruceTer SWPS Type I at 50 cfs total pumping directly into a new outfall into the C-10 canal, located at the vacant parcel North of Sheridan St at N 28th Ave or the access road in the FDOT R/O/W to serve the finger island.
- New gravity collection systems and inlets in the neighborhood.
- New 5,254 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-7, post seawall-15, post-0

Summary of Offsite Issues Affecting CIP Area:

1. Future seawall construction coordination with Dania Beach for contiguous shoreline armoring north of Stirling Rd at EL 5 ft NAVD.

Alternative 2

Proposed CIP:

- Two new SWPSs:
 1. New StirlingE SWPS Type I at total 80 cfs pumping into a new proposed 80 cfs pumped recharge wellfield (20 IWs at assumed 4 cfs each) and into a short run of 36-inch FM outfall with BFP into the C-10 canal, located at a parcel off of Stirling Rd (or in an adjacent vacant parcel of City of Dania Beach).
 2. New N29 SWPS Type II at total 180 cfs total pumping into a new 60-inch FM outfall with BFP into the C-10 canal, located in the grassy area adjacent to the canal east of I-95 at N 29th Ave north of the canal south of Pershing Street.

- New gravity collection systems and inlets in CIP area neighborhoods to new SWPSs and into the C-10 directly with BFP.
- New 4,565 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-7, post seawall-15, post-3

Summary of Offsite Issues Affecting CIP Area:

1. Future seawall coordination with Dania Beach for contiguous armoring north of Stirling Rd.

HC-D4-1 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HC-D4-1-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HC-D4-1-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HC-D4-1-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HC-D4-1-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HC-D4-1-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HC-D4-1-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HC-D4-1_ALT1 – Planning Budget for Alternative 1 Proposed CIP**
- **Table HC-D4-1_ALT2 – Planning Budget for Alternative 2 Proposed CIP**

3.2.2.7 CIP Area HC-D3-5 (Hollywood Hills North)

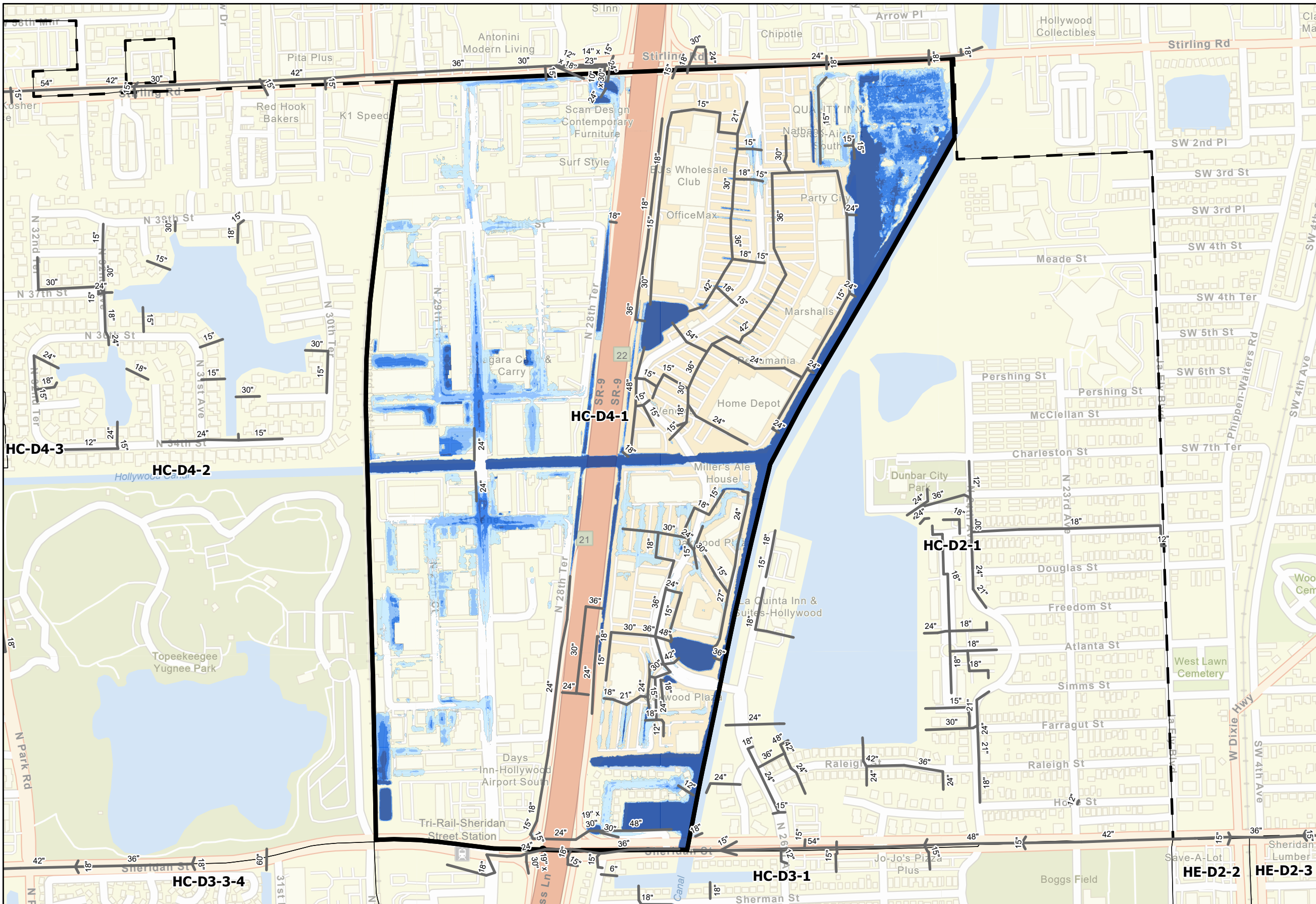
Root Causes of Flooding

This CIP area is characterized by mostly built-out, residential land use, there is no positive drainage system existing and only sporadic exfiltration trenches. The low spot is along Sheridan St. Sheet flow runoff comes into the area from the surrounding neighborhoods.

Alternative 1

Proposed CIP:

- New gravity collection systems with a new parallel primary system along Sheridan St and inlets in neighborhoods outfalling into C-10 spur canal just upstream of the new CS-22 structure and SWPS.

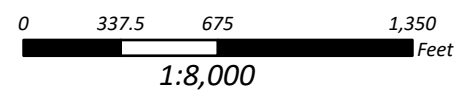


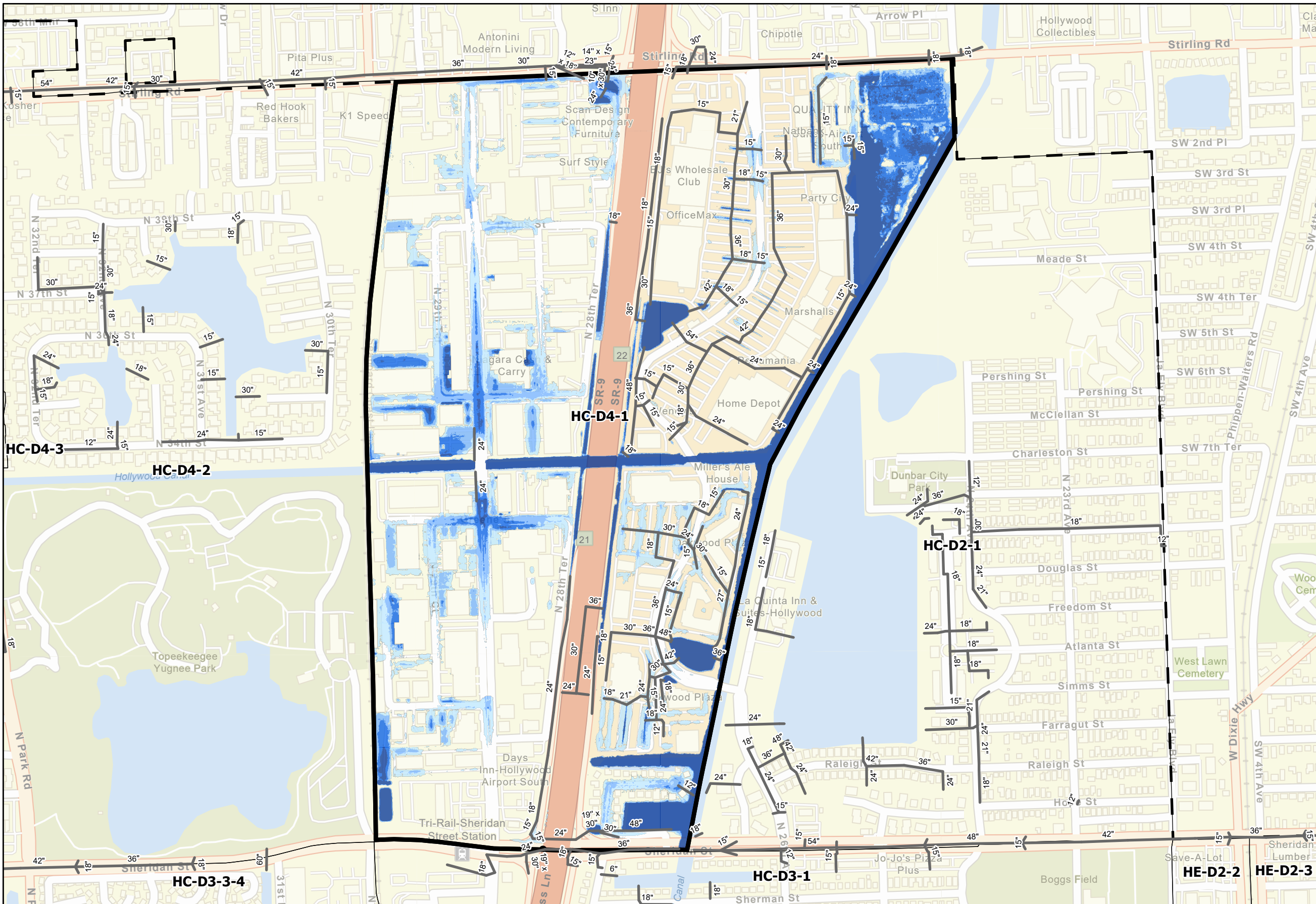
- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Existing Gravity Pipes
 - Existing Forcemains
 - 5-Year 24-Hour Storm Flood Feet
 - ≤ 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Current Conditions Flooding in CIP Area
Oakwood Hills
5-year Design Storm

City of Hollywood Stormwater Master Plan
HC-D4-1_EC-5
2/28/2023



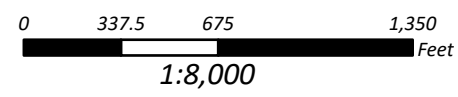


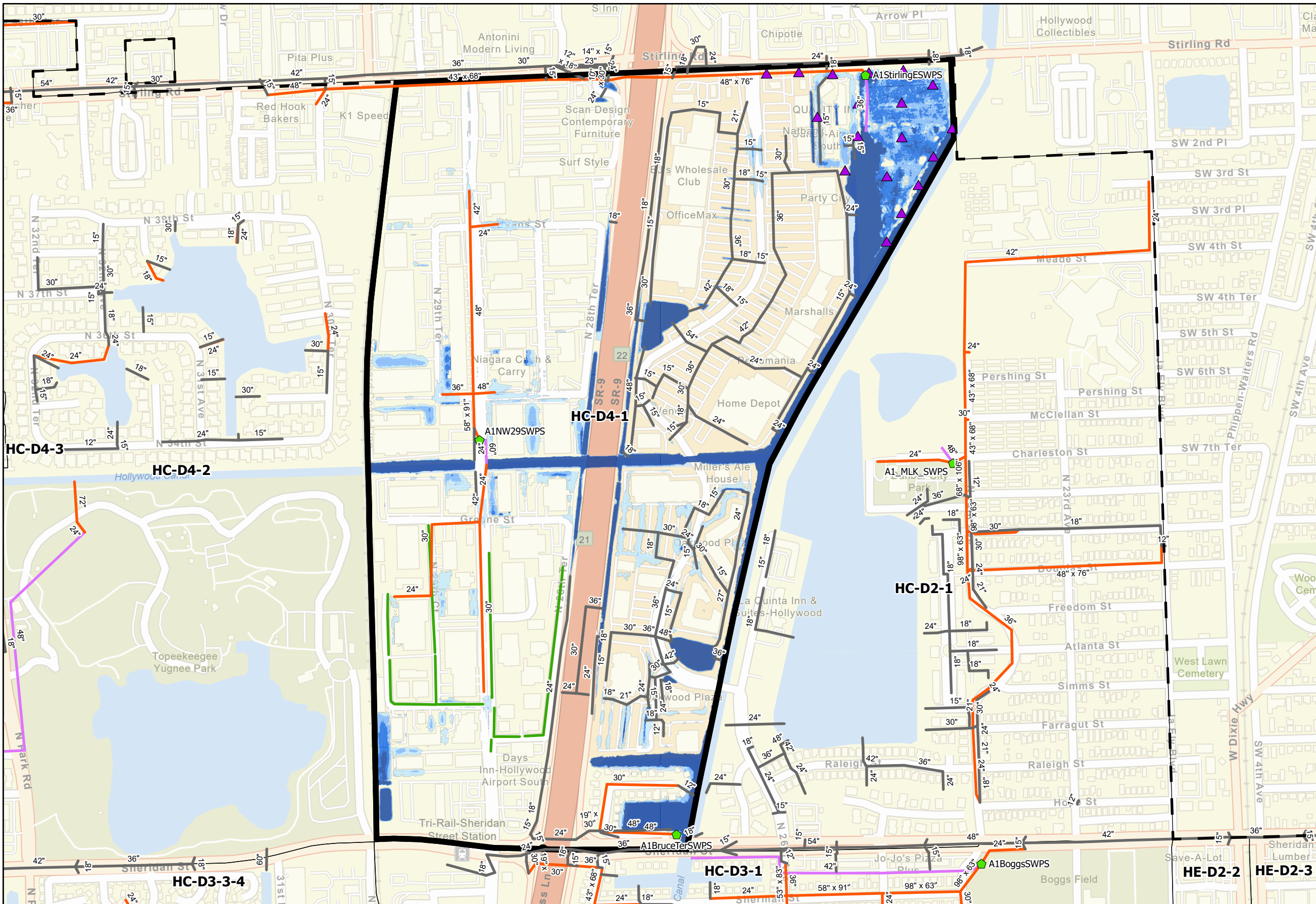
- Legend**
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Existing Gravity Pipes
 - Existing Forcemains
 - 10-Year 72-Hour Storm Flood
 - Feet
 - <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Current Conditions Flooding in CIP Area
Oakwood Hills
10-year Design Storm

City of Hollywood Stormwater Master Plan
HC-D4-1_EC-10
2/28/2023



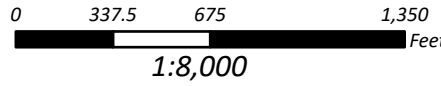


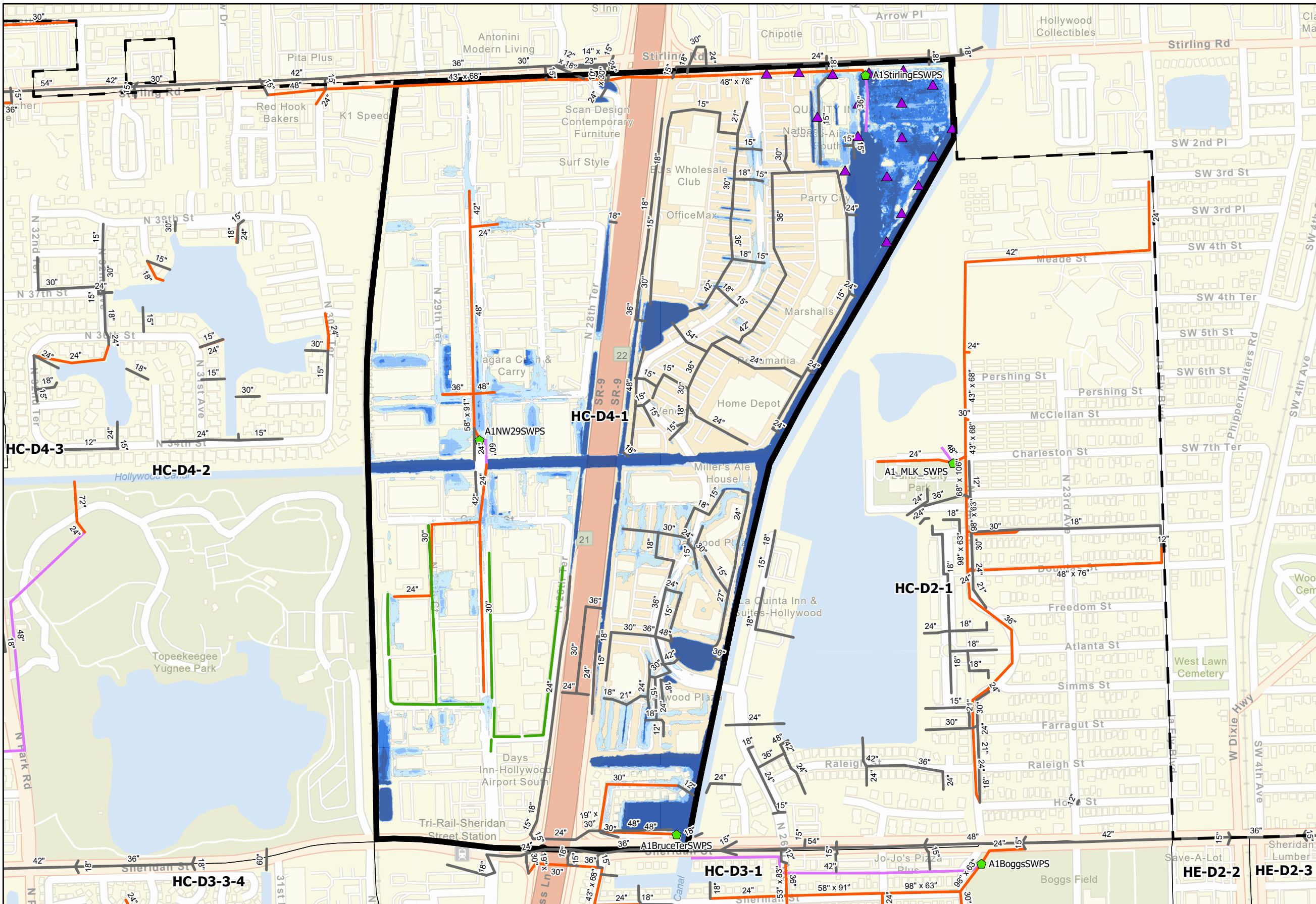
- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond
 - 5-Year ALT 1 Storm Flood Feet
 - <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1
CIP for 5-year Design Storm in CIP Area
Oakwood Hills

City of Hollywood Stormwater Master Plan
HC-D4-1_ALT1-5
2/28/2023





- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond

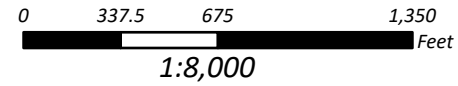
10-Year ALT 1 Storm Flood Feet

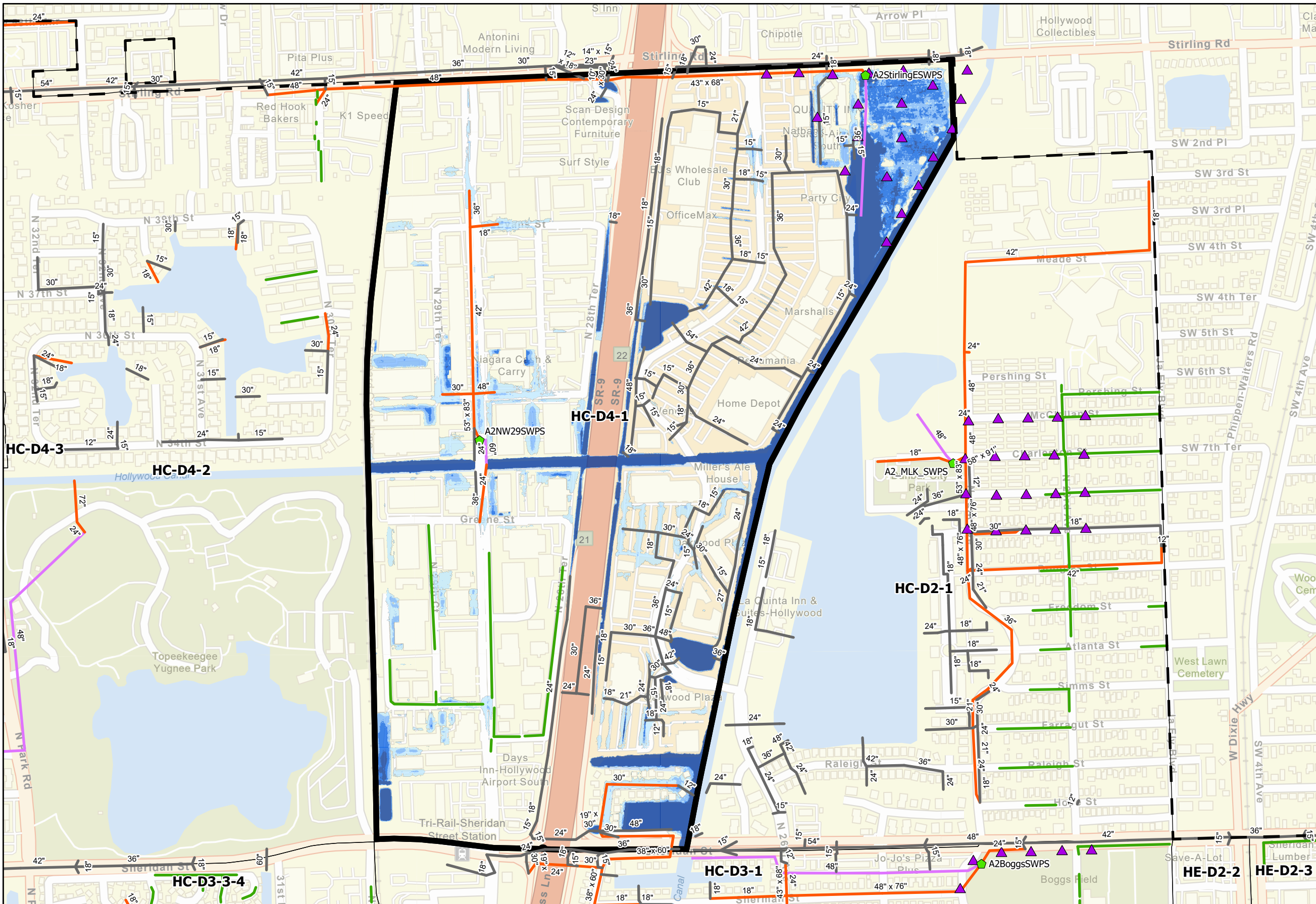
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1 CIP for 10-year Design Storm in CIP Area
Oakwood Hills

City of Hollywood Stormwater Master Plan
HC-D4-1_ALT1-10
2/28/2023



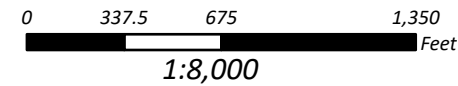


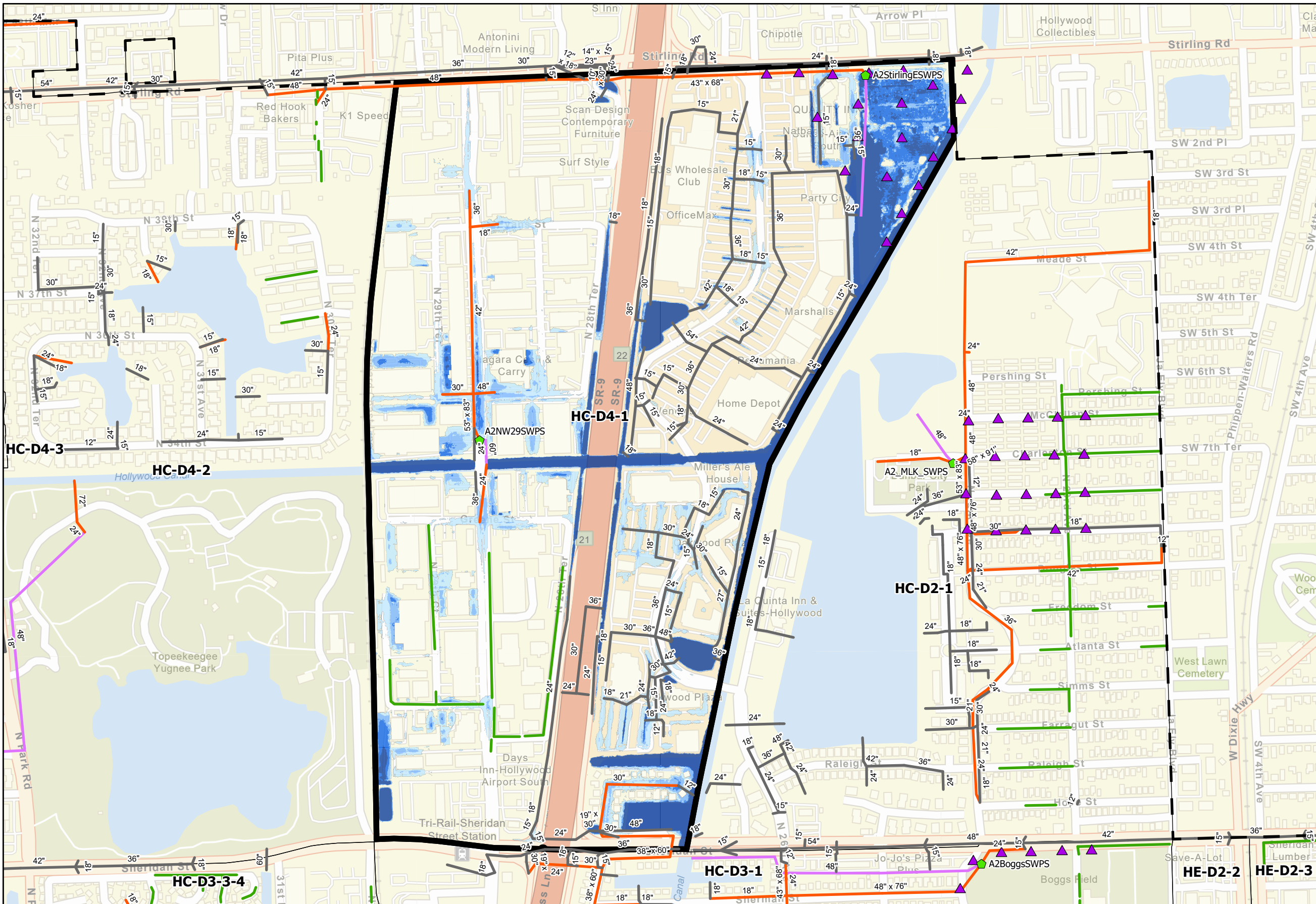
- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Force mains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Force mains
 - Alt 2 Detention Pond
 - 5-Year ALT 2 Storm Flood Feet
- | |
|-----------|
| <= 0 ft. |
| 0 - 0.5 |
| 0.5 - 1 |
| 1 - 1.5 |
| > 1.5 ft. |



Predicted Flooding Reduction and Proposed ALT 2
CIP for 5-year Design Storm in CIP Area
Oakwood Hills

City of Hollywood Stormwater Master Plan
HC-D4-1_ALT2-5
2/28/2023



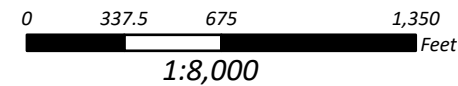


- Legend**
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Force mains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Force mains
 - Alt 2 Detention Pond
 - 10-Year ALT 2 Storm Flood Feet
- | |
|-----------|
| <= 0 ft. |
| 0 - 0.5 |
| 0.5 - 1 |
| 1 - 1.5 |
| > 1.5 ft. |



Predicted Flooding Reduction and Proposed ALT 2
CIP for 10-year Design Storm in CIP Area
Oakwood Hills

City of Hollywood Stormwater Master Plan
HC-D4-1_ALT2-10
2/28/2023



		CONCEPTUAL CAPITAL COST ESTIMATE						Oakwood Hills	
								Alternative 1	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)		DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24		FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -
0002	14	36		FM- Force Main Collector	Circular	LF	\$ 242.00	500	\$ 121,000
0003	15	42		FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -
0004	16	48		FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -
0005	17	54		FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -
0006	18	60		FM- Force Main Collector	Circular	LF	\$ 1,149.00	500	\$ 574,500
0007	19	66		FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72		FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24		FMO- Force Main Offline	Circular	LF	\$ 353.00	4,500	\$ 1,588,500
0010	11			IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -
0011	12			IWO-Injection Wells -Offline		EA	\$ 75,000.00	20	\$ 1,500,000
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	2	\$ 4,800,000
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	1	\$ 3,500,000
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
NN SUBTOTAL								\$ 12,084,000	
EXFILTRATION WITH GRAVITY MAINS								Oakwood Hills	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	605	\$ 29,040
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	2,815	\$ 146,380
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	250	\$ 20,000
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	650	\$ 74,750
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	2,250	\$ 281,250
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	1,945	\$ 719,650
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	1,850	\$ 740,000
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	450	\$ 144,000
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48	GBP-Gravity Backflow Pipe <36"				Ea	\$ 35,000.00	0	\$ -
0052	49	GBP-Gravity Backflow Pipe >36"				Ea	\$ 70,000.00	0	\$ -
0053	5	GW-Gravity Wells				EA	\$ 105,000.00	0	\$ -
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	5,254	\$ 1,313,500
0056	50	Weir Box CS				EA	\$ 7,500.00	0	\$ -
0057	53	CS-22 Remod				EA	\$ 200,000.00	0	\$ -
0058	55	SW-04 Remod				EA	\$ 150,000.00	0	\$ -
0055		Gravity Structures-Inlets				EA	\$ 30,000.00	145	\$ 4,347,250
0059	56	Ditch Improvement				LF	\$ 50.00	0	\$ -
0091	57	Swale/Ditch Headwall				Ea	\$ 10,000.00	0	\$ -
0090	10	Exfil_End Weir				Ea	\$ 5,000.00	0	\$ -
0092	51	Ret/Det Pond				CUY	\$ 355.00	0	\$ -
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
GRAVITY MAIN SUBTOTAL							#N/A		\$ 7,815,820
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	21,569	\$ 5,823,630
CONSTRUCTION COST SUBTOTAL								\$ 25,723,450	
GENERAL CONDITIONS								Oakwood Hills	
0061		Mobilization				LS	4%	\$ 25,723,450	\$ 1,028,938
0062		Insurance and General Conditions				LS	2%	\$ 25,723,450	\$ 514,469
0063		Permits/Fees				LS	2%	\$ 25,723,450	\$ 514,469
0064		Maintenance of Traffic				LS	3%	\$ 25,723,450	\$ 771,704
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 25,723,450	\$ 3,858,518
0066		Construction Engineering Inspection Costs				LS	4%	\$ 25,723,450	\$ 1,028,938
0067		OCI Management Cost				LS	15%	\$ 25,723,450	\$ 3,858,518
0068		Project Contingency Costs				LS	30%	\$ 25,723,450	\$ 7,717,035
Land acquisition									
NS SUBTOTAL								\$ 19,292,588	
TOTAL								\$ 45,016,038	

		CONCEPTUAL CAPITAL COST ESTIMATE						Oakwood Hills	
								Alternative 2	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)		DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24		FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -
0002	14	36		FM- Force Main Collector	Circular	LF	\$ 242.00	500	\$ 121,000
0003	15	42		FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -
0004	16	48		FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -
0005	17	54		FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -
0006	18	60		FM- Force Main Collector	Circular	LF	\$ 1,149.00	500	\$ 574,500
0007	19	66		FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72		FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24		FMO- Force Main Offline	Circular	LF	\$ 353.00	4,500	\$ 1,588,500
0010	11			IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -
0011	12			IWO-Injection Wells -Offline		EA	\$ 75,000.00	20	\$ 1,500,000
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	1	\$ 2,400,000
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	1	\$ 3,500,000
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
IN SUBTOTAL									\$ 9,684,000
EXFILTRATION WITH GRAVITY MAINS								Oakwood Hills	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0021	21	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	200	\$ 9,000
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	150	\$ 7,200
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	1,075	\$ 55,900
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	650	\$ 52,000
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	1,150	\$ 132,250
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	2,065	\$ 258,125
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	1,200	\$ 282,000
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	2,280	\$ 843,600
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	450	\$ 194,400
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48	GBP-Gravity Backflow Pipe <36"				Ea	\$ 35,000.00	0	\$ -
0052	49	GBP-Gravity Backflow Pipe >36"				Ea	\$ 70,000.00	0	\$ -
0053	5	GW-Gravity Wells				EA	\$ 105,000.00	0	\$ -
0054	4	48		ET-Exfiltration Trench		LF	\$ 250.00	4,564	\$ 1,141,000
0055	50	Weir Box CS				EA	\$ 30,000.00	0	\$ -
0057	53	CS-22 Remod				EA	\$ 525,000.00	0	\$ -
0058	55	SW-04 Remod				EA	\$ 150,000.00	0	\$ -
0056		Gravity Structures-Inlets				EA	\$ 7,500.00	126	\$ 944,000
0059	56	Ditch Improvement				LF	\$ 50.00	0	\$ -
0091	57	Swale/Ditch Headwall				Ea	\$ 10,000.00	0	\$ -
0090	10	Exfil End Weir				Ea	\$ 5,000.00	0	\$ -
0092	51	Ret/Det Pond				CUY	\$ 355.00	0	\$ -
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
GRAVITY MAIN SUBTOTAL									\$ 3,919,475
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	19,284	\$ 5,206,680
CONSTRUCTION COST SUBTOTAL									\$ 18,810,155
GENERAL CONDITIONS								Oakwood Hills	
0061		Mobilization				LS	4%	\$ 18,810,155	\$ 752,406
0062		Insurance and General Conditions				LS	2%	\$ 18,810,155	\$ 376,203
0063		Permits/Fees				LS	2%	\$ 18,810,155	\$ 376,203
0064		Maintenance of Traffic				LS	3%	\$ 18,810,155	\$ 564,305
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 18,810,155	\$ 2,821,523
0066		Construction Engineering Inspection Costs				LS	4%	\$ 18,810,155	\$ 752,406
0067		OCI Management Cost				LS	15%	\$ 18,810,155	\$ 2,821,523
0068		Project Contingency Costs				LS	30%	\$ 18,810,155	\$ 5,643,047
NS SUBTOTAL									\$ 14,107,616
TOTAL									\$ 32,917,771

- New 63,110 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-3 post-0

Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2

Proposed CIP:

- New gravity collection systems with a new parallel primary system along Sheridan St and inlets in neighborhoods outfalling into C-10 spur canal just upstream of the CS-22 structure modified for BFP.
- New 14,170 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-3 post-1

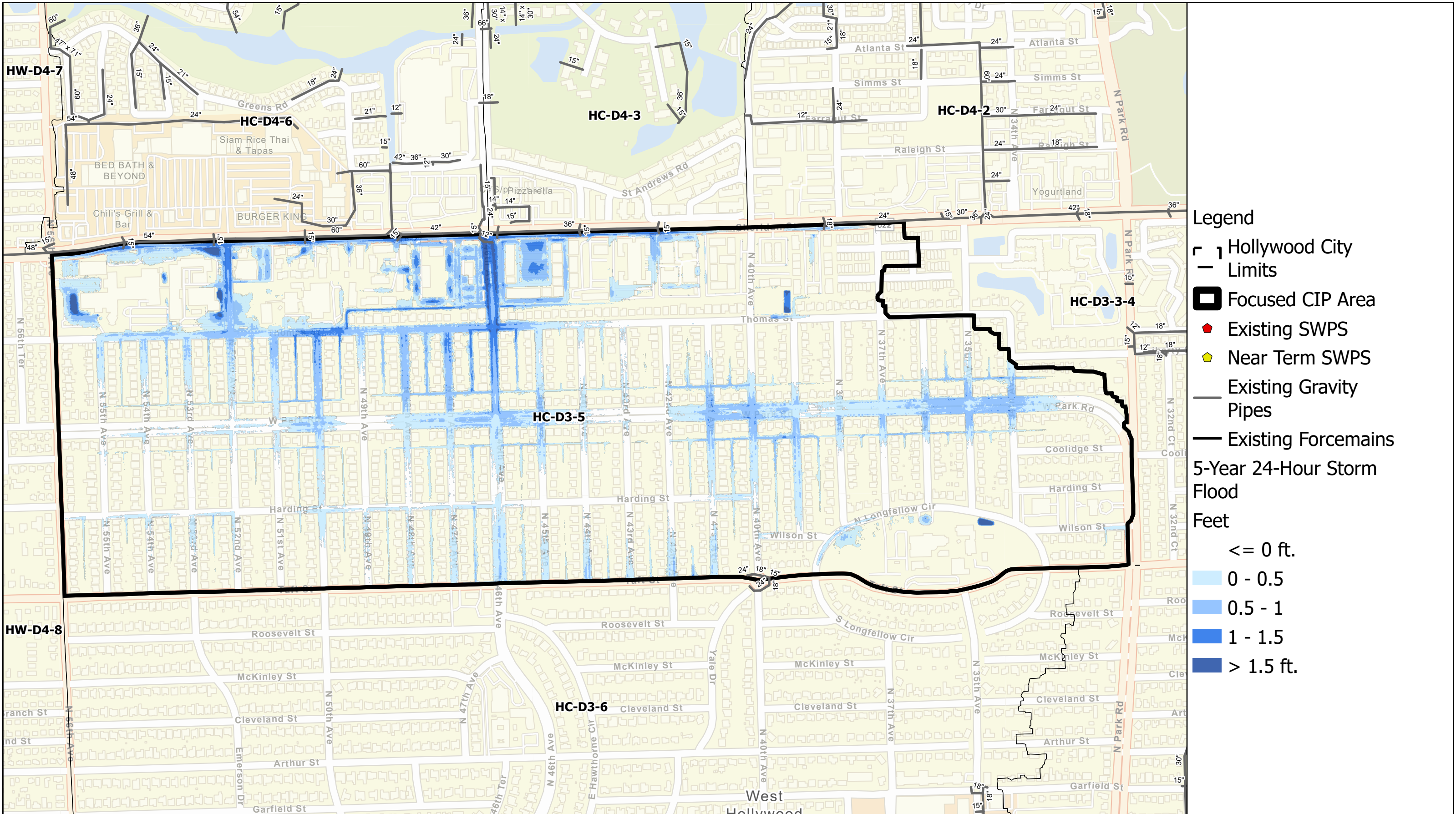
Summary of Offsite Issues Affecting CIP Area:

1. None.

HC-D3-5 Pre-Post CIP Flood Inundation Maps

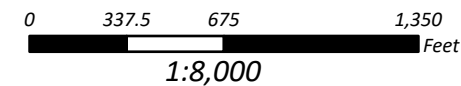
The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

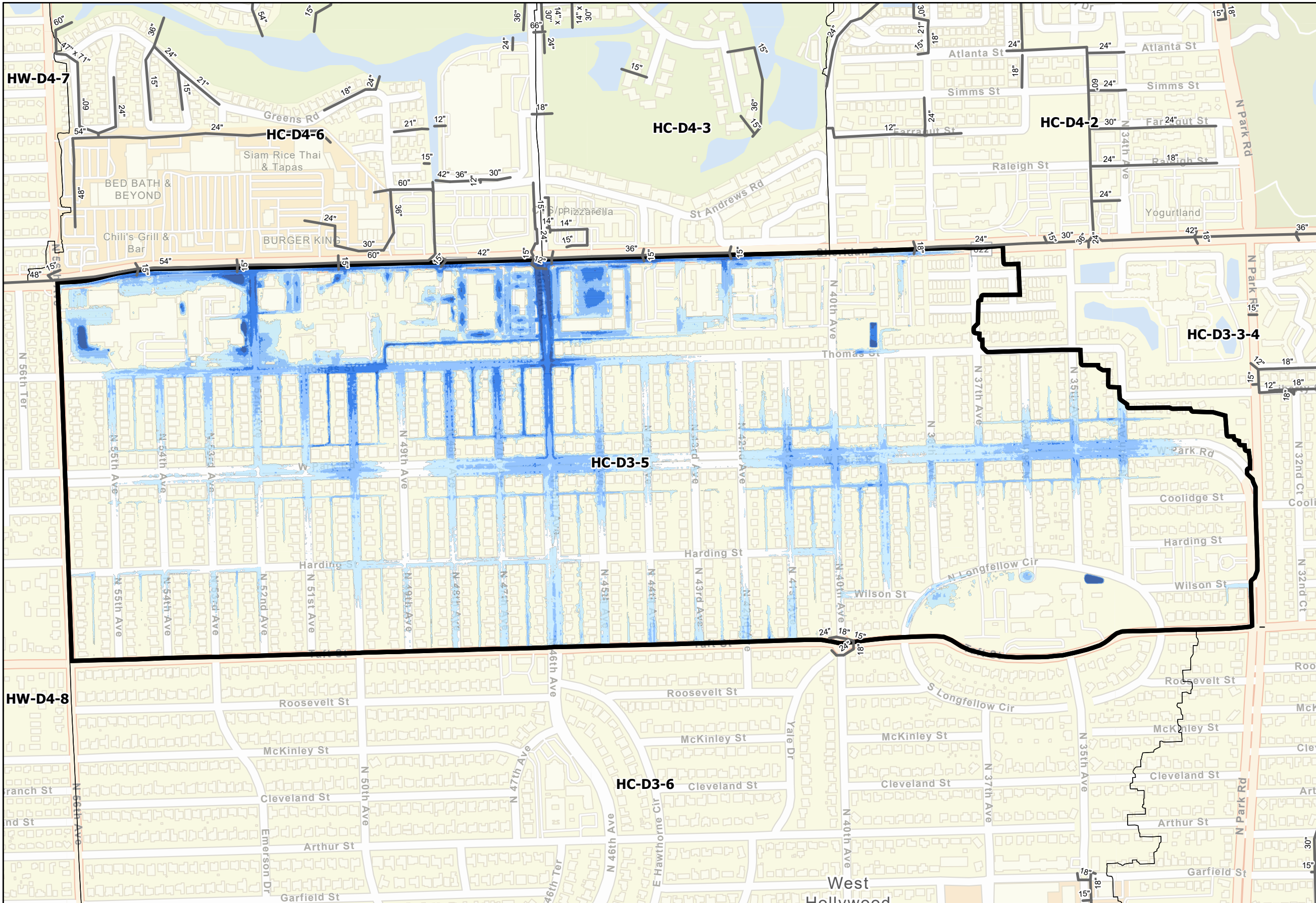
- **Figure HC-D3-5-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HC-D3-5-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HC-D3-5-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HC-D3-5-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HC-D3-5-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HC-D3-5-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HC-D3-5_ALT1 – Planning Budget for Alternative 1 Proposed CIP**
- **Table HC-D3-5_ALT2 – Planning Budget for Alternative 2 Proposed CIP**



Current Conditions Flooding in CIP Area Hollywood Hills North 5-year Design Storm

City of Hollywood Stormwater Master Plan
HC-D3-5_EC-5
2/28/2023



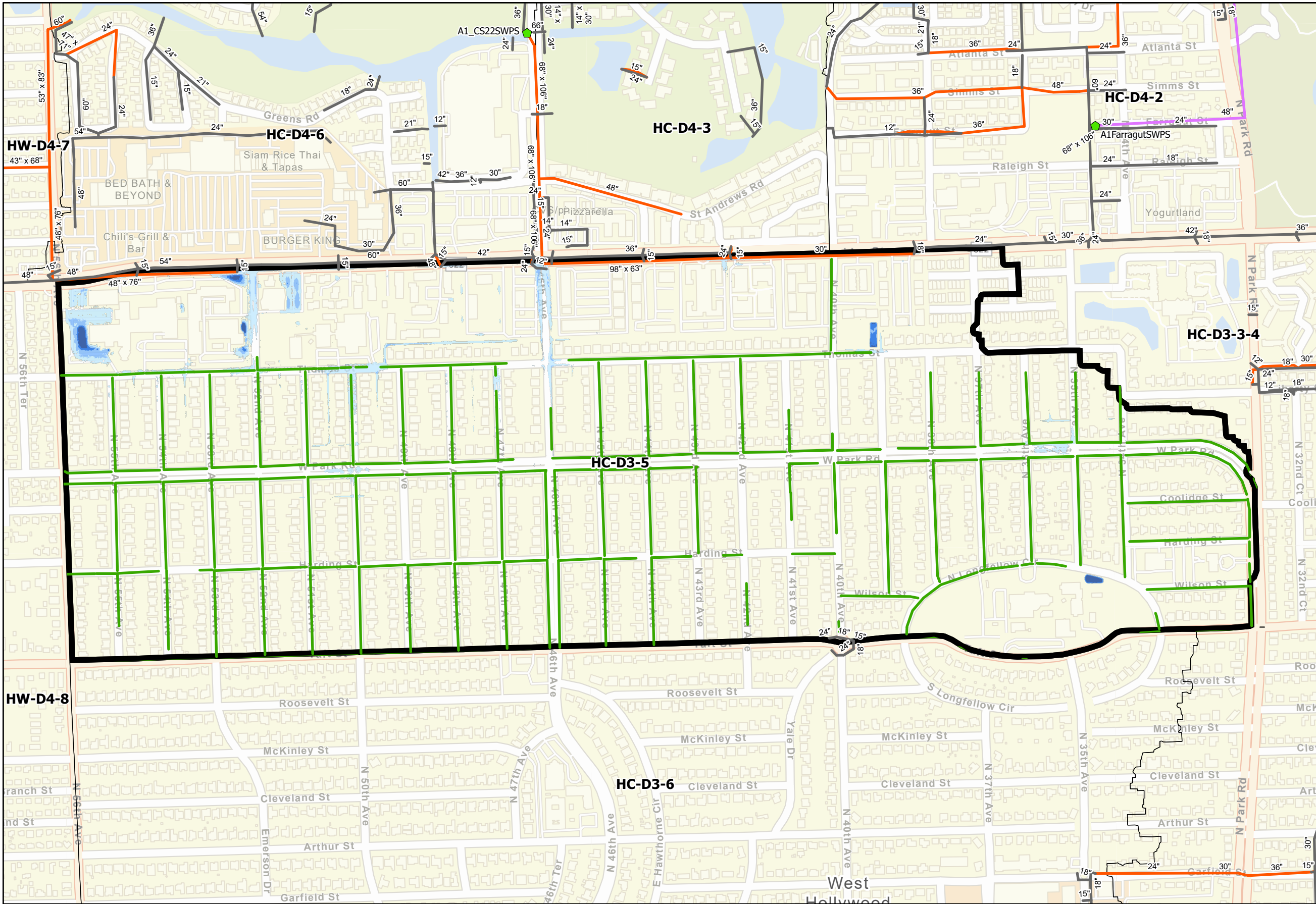


Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

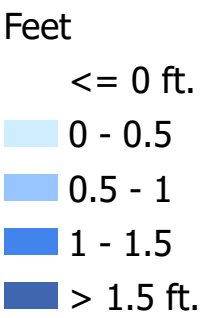
10-Year 72-Hour Storm Flood Feet

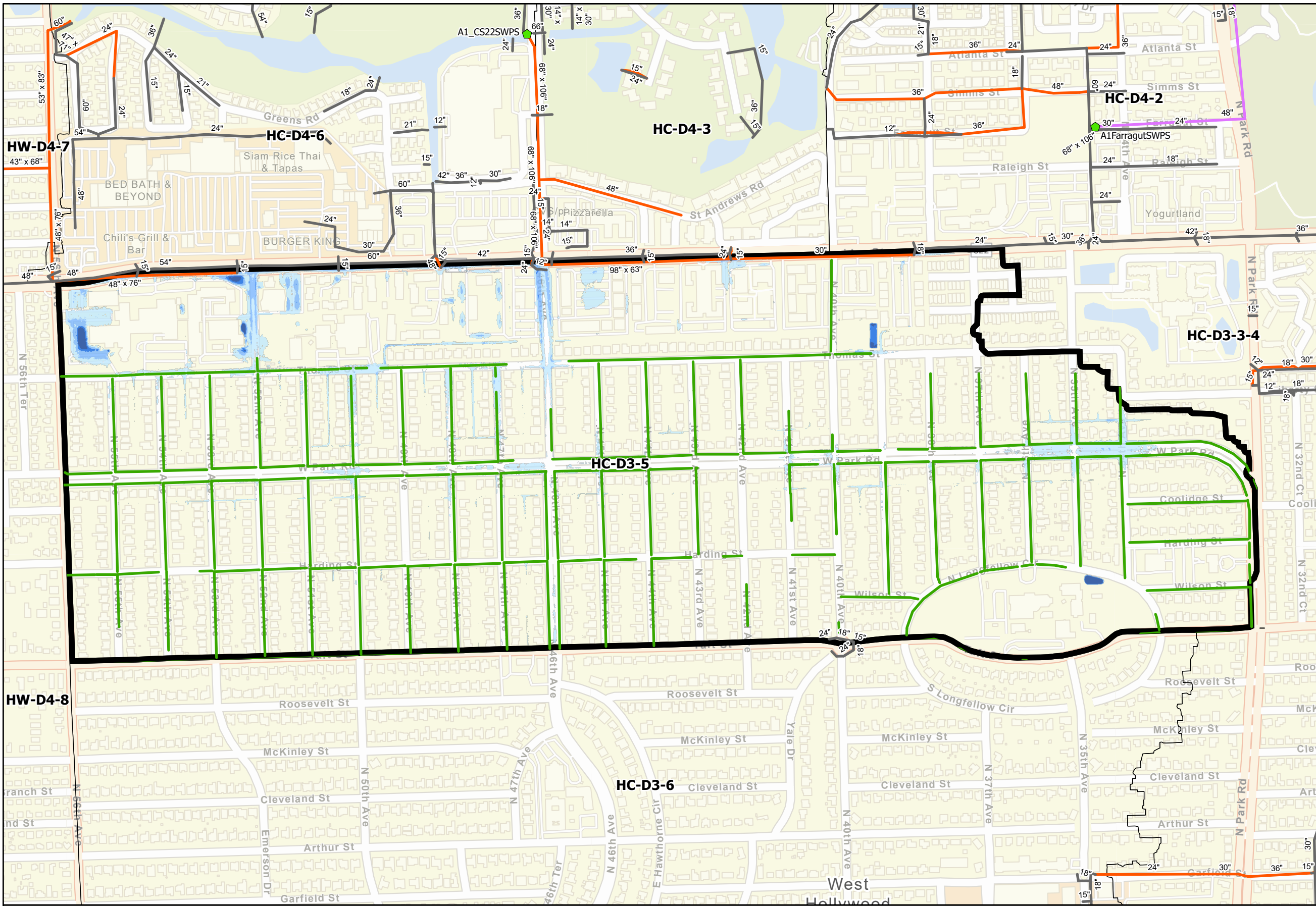
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond

5-Year ALT 1 Storm Flood





Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 1 SWPS
- Alt 1 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 1 Exfiltration Pipes
- Alt 1 Gravity Pipes
- Alt 1 Forcemains
- Alt 1 Detention Pond

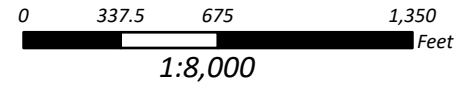
10-Year ALT 1 Storm Flood

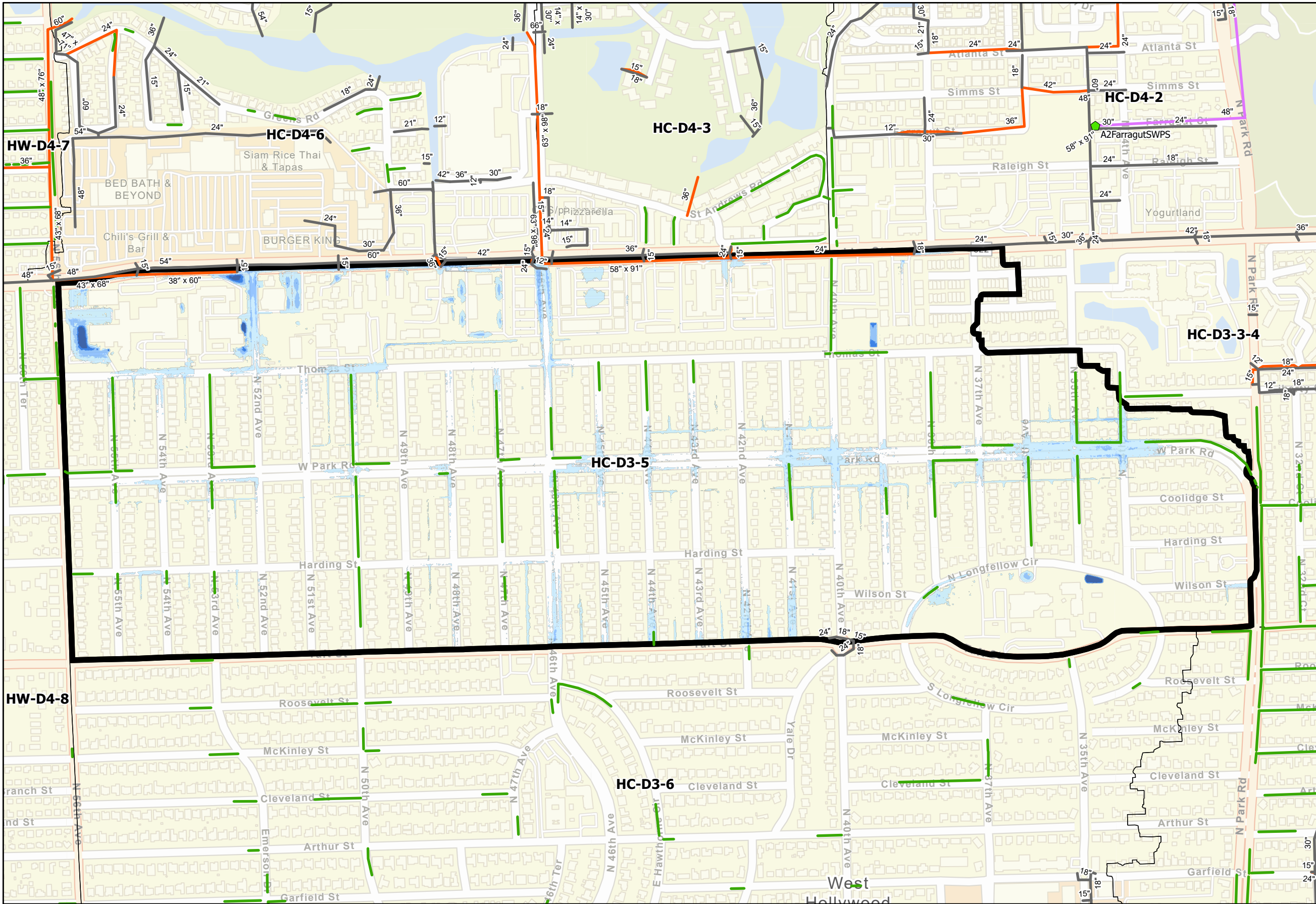
- Feet
- <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1
CIP for 10-year Design Storm in CIP Area
Hollywood Hills North

City of Hollywood Stormwater Master Plan
HC-D3-5_ALT1-10
2/28/2023





Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 2 SWPS
- Alt 2 Injection Wells
- Existing Gravity Pipes
- Existing Force mains
- Alt 2 Exfiltration Pipe
- Alt 2 Gravity Pipes
- Alt 2 Force mains
- Alt 2 Detention Pond

5-Year ALT 2 Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.

				CONCEPTUAL CAPITAL COST ESTIMATE				Hollywood Hills N	
								Alternative 1	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$ -
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$ -
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$ -
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$ -
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$ -
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$ -
0010	11		IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -	
0011	12		IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -	
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS			EA	\$ 8,000,000.00	0	\$ -	
NN SUBTOTAL									\$ -
EXFILTRATION WITH GRAVITY MAINS								Hollywood Hills N	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	165	\$ 7,920
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	1,260	\$ 65,520
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	0	\$ -
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	95	\$ 11,875
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	2,050	\$ 820,000
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	1,300	\$ 533,000
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	460	\$ 211,600
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48	GBP-Gravity Backflow Pipe <36"			Ea	\$ 35,000.00	0	\$ -	
0052	49	GBP-Gravity Backflow Pipe >36"			Ea	\$ 70,000.00	0	\$ -	
0053	5	GW-Gravity Wells			EA	\$ 105,000.00	0	\$ -	
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	63,107	\$ 15,776,750
0056	50	Weir Box CS			EA	\$ 7,500.00	0	\$ -	
0057	53	CS-22 Remod			EA	\$ 200,000.00	0	\$ -	
0058	55	SW-04 Remod			EA	\$ 150,000.00	0	\$ -	
0055		Gravity Structures-Inlets			EA	\$ 30,000.00	570	\$ 17,109,250	
0059	56	Ditch Improvement			LF	\$ 50.00	0	\$ -	
0091	57	Swale/Ditch Headwall			Ea	\$ 10,000.00	0	\$ -	
0090	10	Exfil_End Weir			Ea	\$ 5,000.00	0	\$ -	
0092	51	Ret/Det Pond			CUY	\$ 355.00	0	\$ -	
						#N/A	#VALUE!	#VALUE!	
						#N/A	#VALUE!	#VALUE!	
GRAVITY MAIN SUBTOTAL						#N/A		\$ 34,535,915	
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	68,437	\$ 18,477,990
CONSTRUCTION COST SUBTOTAL									\$ 53,013,905
GENERAL CONDITIONS								Hollywood Hills N	
0061		Mobilization				LS	4%	\$ 53,013,905	\$ 2,120,556
0062		Insurance and General Conditions				LS	2%	\$ 53,013,905	\$ 1,060,278
0063		Permits/Fees				LS	2%	\$ 53,013,905	\$ 1,060,278
0064		Maintenance of Traffic				LS	3%	\$ 53,013,905	\$ 1,590,417
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 53,013,905	\$ 7,952,086
0066		Construction Engineering Inspection Costs				LS	4%	\$ 53,013,905	\$ 2,120,556
0067		OCI Management Cost				LS	15%	\$ 53,013,905	\$ 7,952,086
0068		Project Contingency Costs				LS	30%	\$ 53,013,905	\$ 15,904,172
Land acquisition									
NS SUBTOTAL									\$ 39,760,429
TOTAL									\$ 92,774,334

		CONCEPTUAL CAPITAL COST ESTIMATE						Hollywood Hills N	
								Alternative 2	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)		DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24		FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -
0002	14	36		FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -
0003	15	42		FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -
0004	16	48		FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -
0005	17	54		FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -
0006	18	60		FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66		FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72		FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24		FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -
0010	11			IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -
0011	12			IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
NN SUBTOTAL									\$ -
EXFILTRATION WITH GRAVITY MAINS								Hollywood Hills N	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0021	21	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	1,425	\$ 68,400
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	0	\$ -
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	95	\$ 7,600
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$ -
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	720	\$ 169,200
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	1,330	\$ 492,100
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	1,300	\$ 416,000
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	460	\$ 188,600
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48				GBP-Gravity Backflow Pipe <36"	Ea	\$ 35,000.00	0	\$ -
0052	49				GBP-Gravity Backflow Pipe >36"	Ea	\$ 70,000.00	0	\$ -
0053	5				GW-Gravity Wells	EA	\$ 105,000.00	0	\$ -
0054	4	48				ET-Exfiltration Trench	LF	\$ 250.00	14,170 \$ 3,542,500
0055	50				Weir Box CS	EA	\$ 30,000.00	0	\$ -
0057	53				CS-22 Remod	EA	\$ 525,000.00	0	\$ -
0058	55				SW-04 Remod	EA	\$ 150,000.00	0	\$ -
0056					Gravity Structures-Inlets	EA	\$ 7,500.00	163	\$ 1,218,750
0059	56				Ditch Improvement	LF	\$ 50.00	0	\$ -
0091	57				Swale/Ditch Headwall	Ea	\$ 10,000.00	0	\$ -
0090	10				Exfil End Weir	Ea	\$ 5,000.00	0	\$ -
0092	51				Ret/Det Pond	CUY	\$ 355.00	0	\$ -
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
GRAVITY MAIN SUBTOTAL									\$ 6,103,150
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	19,500	\$ 5,265,000
CONSTRUCTION COST SUBTOTAL									\$ 11,368,150
GENERAL CONDITIONS								Hollywood Hills N	
0061		Mobilization				LS	4%	\$ 11,368,150	\$ 454,726
0062		Insurance and General Conditions				LS	2%	\$ 11,368,150	\$ 227,363
0063		Permits/Fees				LS	2%	\$ 11,368,150	\$ 227,363
0064		Maintenance of Traffic				LS	3%	\$ 11,368,150	\$ 341,045
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 11,368,150	\$ 1,705,223
0066		Construction Engineering Inspection Costs				LS	4%	\$ 11,368,150	\$ 454,726
0067		OCI Management Cost				LS	15%	\$ 11,368,150	\$ 1,705,223
0068		Project Contingency Costs				LS	30%	\$ 11,368,150	\$ 3,410,445
NS SUBTOTAL									\$ 8,526,113
TOTAL									\$ 19,894,263

3.2.2.8 CIP Area HC-D3-6 (Hollywood Hills North Central)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, residential land use. Pockets of low areas collect runoff and flood as water sheet flows from surrounding higher areas.

Alternative 1

Proposed CIP:

- New 36,890 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-1 post-0

Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2

Proposed CIP:

- New 7,210 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-1 post-0

Summary of Offsite Issues Affecting CIP Area:

1. None.

HC-D3-6 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HC-D3-6-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HC-D3-6-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HC-D3-6-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HC-D3-6-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HC-D3-6-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HC-D3-6-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**