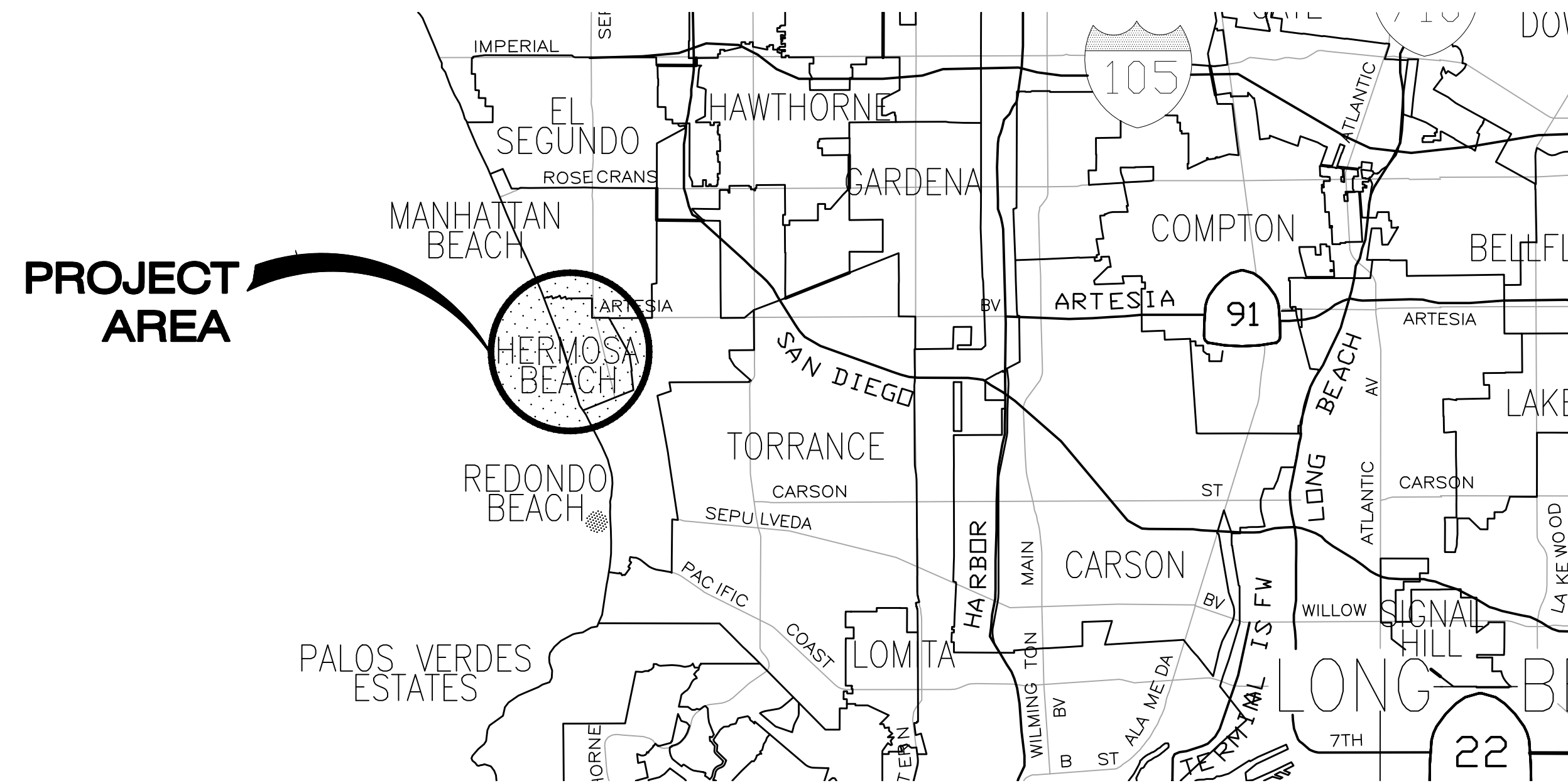


# CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT

## CIP 421 SEWER IMPROVEMENTS PHASE 2



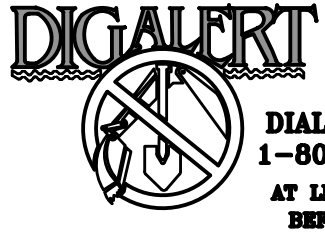



**VICINITY MAP**  
NOT TO SCALE



### SHEET INDEX

SHT. NO.	DWG. NO.	DESCRIPTION	SHT. NO.	DWG. NO.	DESCRIPTION
1	G-01	TITLE SHEET	16	C-11	REMOVE & REPLACE - 11/14
2	G-02	STANDARD NOTES	17	C-12	REMOVE & REPLACE - 12/14
3	G-03	SHEET INDEX MAP, ABBREVIATIONS, AND SYMBOLS & UTILITY LEGEND	18	C-13	REMOVE & REPLACE - 13/14
4	G-04	PIPE REHABILITATION INDEX MAPS	19	C-14	REMOVE & REPLACE - 14/14
5	G-05	PIPE REHAB/REPAIR SCHEDULE	20	C-15	POINT REPAIR - 1/2
6	C-01	REMOVE & REPLACE - 1/14	21	C-16	POINT REPAIR - 2/2
7	C-02	REMOVE & REPLACE - 2/14	22	C-17	MANHOLE REHABILITATION - AREA 1
8	C-03	REMOVE & REPLACE - 3/14	23	C-18	MANHOLE REHABILITATION - AREA 2
9	C-04	REMOVE & REPLACE - 4/14	24	C-19	MANHOLE REHABILITATION - AREA 3
10	C-05	REMOVE & REPLACE - 5/14	25	C-20	MANHOLE REHABILITATION - AREA 4
11	C-06	REMOVE & REPLACE - 6/14	26	C-21	MANHOLE REHABILITATION - AREA 5
12	C-07	REMOVE & REPLACE - 7/14	27	C-22	MANHOLE DETAILS - 1/5
13	C-08	REMOVE & REPLACE - 8/14	28	C-23	MANHOLE DETAILS - 2/5
14	C-09	REMOVE & REPLACE - 9/14	29	C-24	MANHOLE DETAILS - 3/5
15	C-10	REMOVE & REPLACE - 10/14	30	C-25	MANHOLE DETAILS - 4/5
			31	C-26	MANHOLE DETAILS - 5/5

M:\2\HERO30503\WATERS\TASKS\FINAL DESIGN\SHEETS\G-01.dwg 12/22/23 - 10:04am ben.halbach

 DIAL TOLL FREE 1-800-422-4133 AT LEAST TWO DAYS BEFORE YOU DIG <small>UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</small>	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 75%;">DESCRIPTION</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	DESCRIPTION	DATE													PLANS PREPARED BY:  <b>PSOMAS</b> 5 HUTTON CENTRE DRIVE, SUITE 300 SANTA ANA, CA 92707 TEL (714) 751-7373 FAX (714) 545-8883  12/22/23 MAIRA SALCEDO, P.E., RCE 77370      DATE	CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT RECOMMENDED FOR PERMIT ISSUANCE:  5-15-24      DATE	CIP 421 ANNUAL SEWER IMPROVEMENTS PHASE 2  TITLE SHEET	FILE NUMBER 23-010  <b style="font-size: 2em;">G-01</b> SHT. 1 OF 31
	No.	DESCRIPTION	DATE																	

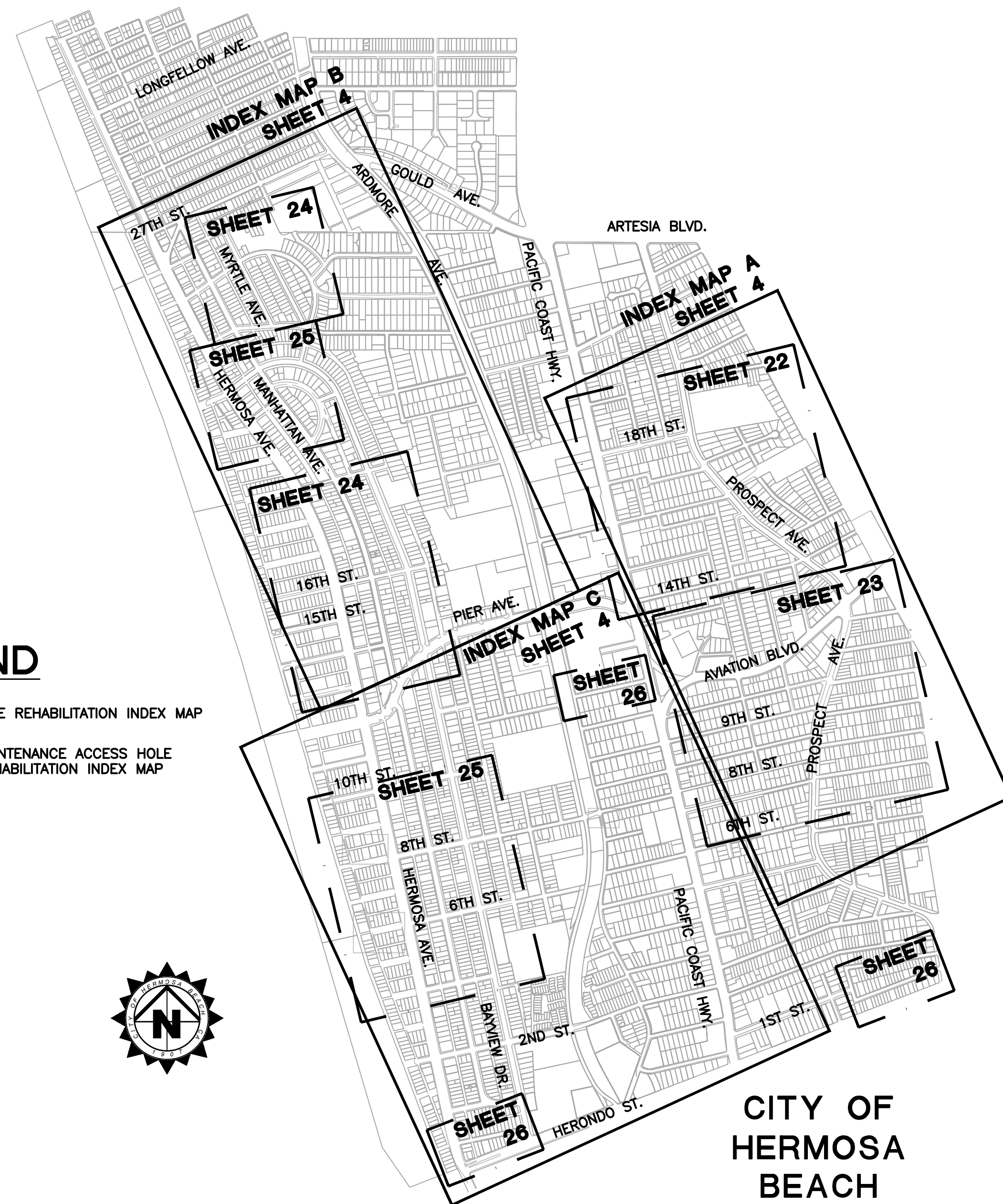


# SYMBOLS & UNDERGROUND UTILITY LEGEND

	CONSTRUCTION NOTES (SHEETS 6-8, 20-23)		EXISTING CASING
	PROPOSED POINT REPAIR (SHEETS 9-12)		EXISTING FIBER OPTIC CONDUIT
	PROPOSED REMOVE AND REPLACE (SHEETS 6-8)		EXISTING ABANDONED UTILITY (SIZE AND TYPE AS INDICATED)
	FLOW DIRECTION		EXISTING IRRIGATION CONDUIT (SIZE AS INDICATED)
	EXISTING HERMOSA BEACH SEWER		EXISTING REDUCER
	EXISTING LACSD SEWER		EXISTING STREET LIGHT
	EXISTING SEWER LATERAL		EXISTING CAP
	EXISTING WATERLINE (SIZE AS INDICATED)		EXISTING SEWER LATERAL
	EXISTING WATER SERVICE		EXISTING SEWER MAINTENANCE ACCESS HOLE
	EXISTING FIRE HYDRANT		EXISTING STORM DRAIN CATCH BASIN INLET
	EXISTING VALVE		EXISTING MONITORING WELL
	EXISTING GAS MAIN (SIZE AS INDICATED)		EXISTING RAISED MEDIAN
	EXISTING OIL MAIN (SIZE AS INDICATED)		EXISTING RIGHT-OF-WAY
	EXISTING TELEPHONE		EXISTING STREET CENTERLINE
	EXISTING ELECTRIC		EXISTING TELEPHONE VAULT
	EXISTING OVERHEAD ELECTRIC		EXISTING SIGN POST
	EXISTING STREET LIGHT CONDUIT		EXISTING FENCE
	EXISTING TRAFFIC SIGNAL LOOP		
	EXISTING TRAFFIC SIGNAL CONDUIT		
	EXISTING STORM DRAIN (SIZE AS INDICATED)		

## LEGEND

- PIPE REHABILITATION INDEX MAP
- MAINTENANCE ACCESS HOLE REHABILITATION INDEX MAP



## SHEET INDEX MAP

NOT TO SCALE

## ABBREVIATIONS

ABAN	ABANDONED	PH	POTHOLE
AC	ASPHALT CONCRETE	PP	POWER POLE
BOP	BOTTOM OF PIPE	PVMT	PAVEMENT
CB	CATCH BASIN	RCP	REINFORCED CONCRETE PIPE
CI	CAST IRON	RCB	REINFORCED CONCRETE BOX
CO	CLEAN OUT (SEWER)	REBAR	REINFORCING STEEL
CONC	CONCRETE	REQ'D	REQUIRED
CP	CONCRETE PIPE	R/W	RIGHT-OF-WAY
CRB	CRUSHED ROCK BASE	S	SLOPE (GRADIENT OF PIPELINE)
℄	CENTERLINE	SCE	SOUTHERN CALIFORNIA EDISON
DIA	DIAMETER	SD	STORM DRAIN
D/S	DOWNSTREAM	SHT	SHEET
DRWY	DRIVEWAY	SL	STREET LIGHT CONDUIT
DWG	DRAWING	SMAH	SANITARY SEWER MAINTENANCE ACCESS HOLE
E	ELECTRIC	SS	SANITARY SEWER
E/O	EAST OF	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
ESMNT	EASEMENT	STA	STATION
EXIST	EXISTING	STD	STANDARD
FO	FIBER OPTICS	SWLK	SIDEWALK
G	GAS	TFW	TAP FACTORY WYE
GASO	GASOLINE	TOP	TOP OF PIPE
I.D.	INSIDE DIAMETER	TS	TRAFFIC SIGNAL CONDUIT
INV (EL)	INVERT ELEVATION	TYP	TYPICAL
LACSD	LOS ANGELES COUNTY SANITATION DISTRICT	UNK	UNKNOWN
LACWWD	LOS ANGELES COUNTY WATERWORKS DISTRICT	UG	UNDERGROUND
LF	LINEAR FEET	U/S	UPSTREAM
MAH	MAINTENANCE ACCESS HOLE	VCP	VITRIFIED CLAY PIPE
MIN	MINIMUM		
NTS	NOT TO SCALE		
OD	OUTSIDE DIAMETER		



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:



**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
SANTA ANA, CA 92707  
TEL (714) 751-7373  
FAX (714) 545-8883

*M. Salcedo*  
12/22/23  
MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
5-15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

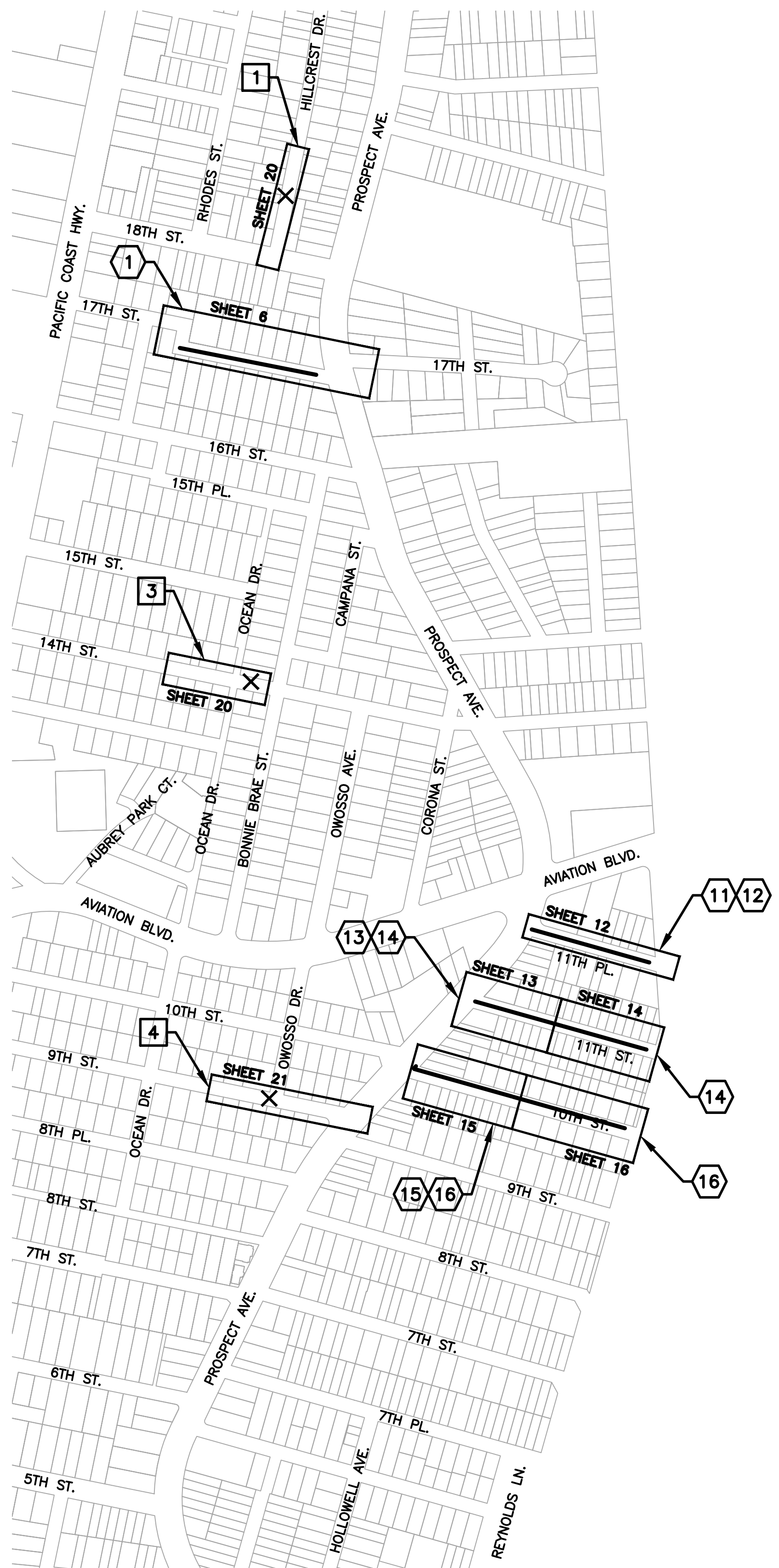
SHEET INDEX MAP, ABBREVIATIONS, AND  
SYMBOLS & UTILITY LEGEND

FILE NUMBER  
23-010

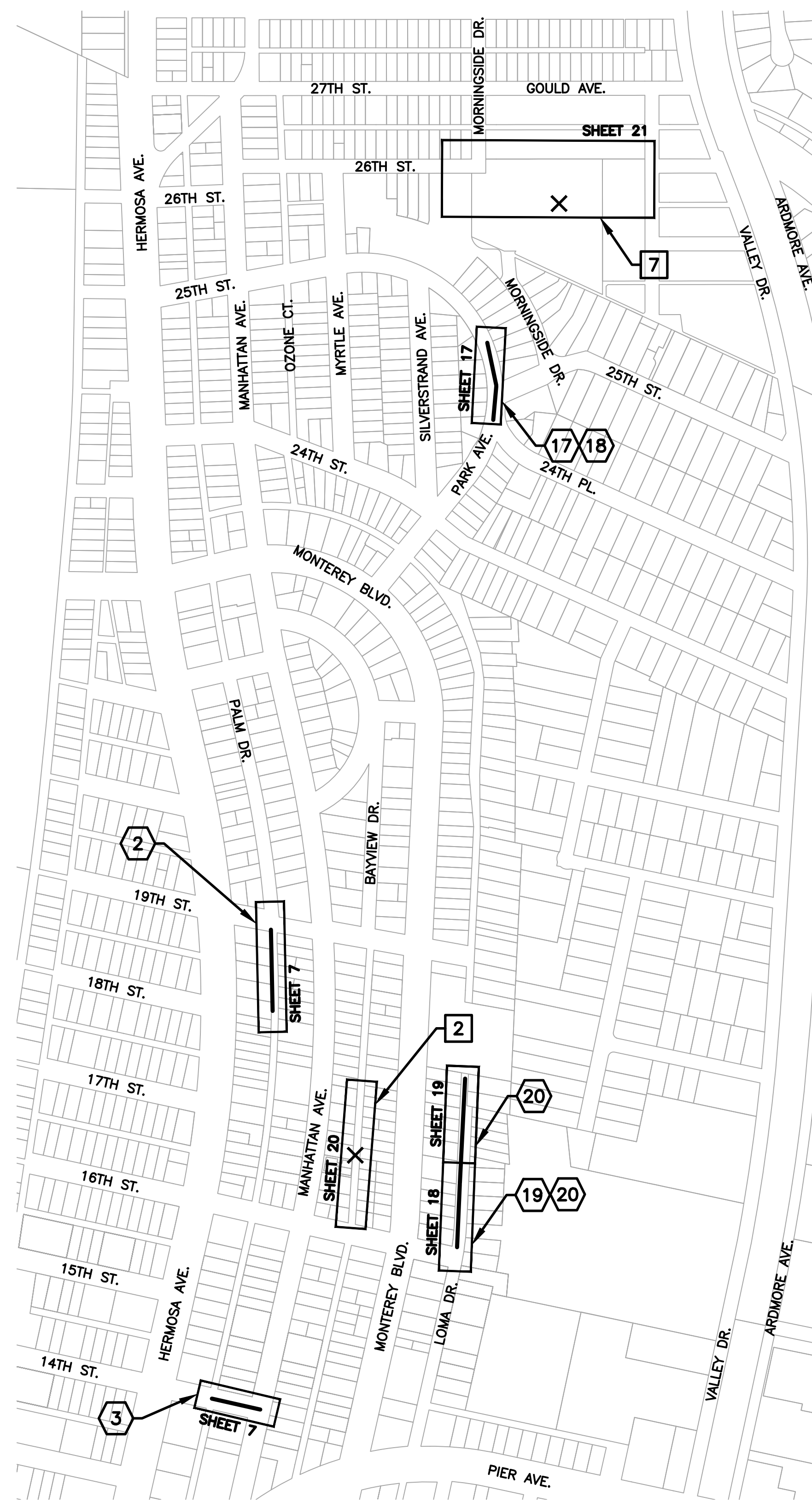
**G-03**

SHT. 3 OF 31

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INDEX MAP A - AREAS 1 & 2



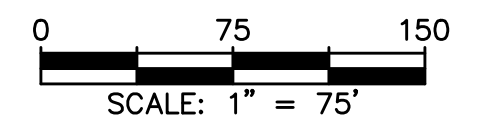
INDEX MAP B - AREAS 3, 4, & 6



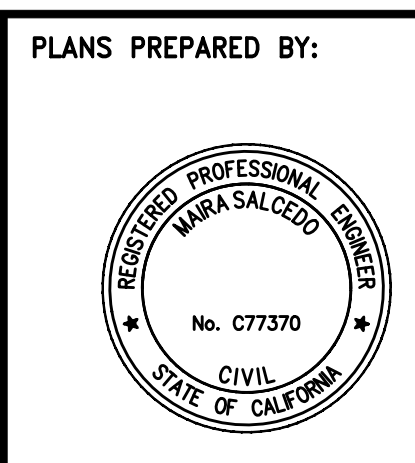
INDEX MAP C - AREAS 5 & 6

**INDEX SHEET LEGEND**

- X POINT REPAIR (PIPE REPLACEMENT)
- 1 POINT REPAIR (PIPE REPLACEMENT)
- 1 REMOVE AND REPLACE



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No.	DESCRIPTION	DATE



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*M. Salcedo*  
 MAIRA SALCEDO, P.E., RCE 77370 DATE 12/22/23

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
 DATE 5-15-24

CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

PIPE REHABILITATION INDEX  
 MAPS

FILE NUMBER  
 23-010

**G-04**

SHT. 4 OF 31

**REMOVE AND REPLACE SCHEDULE**

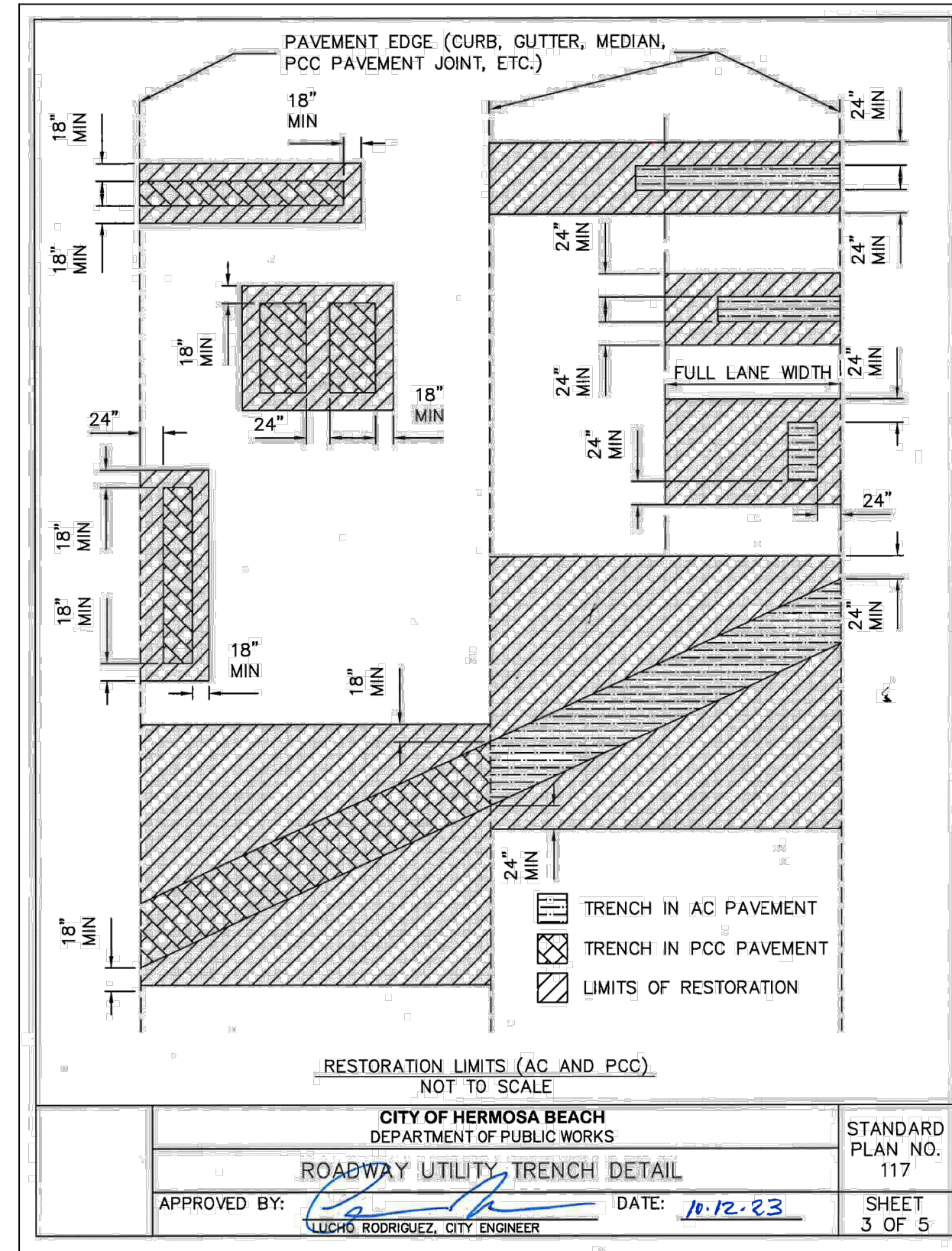
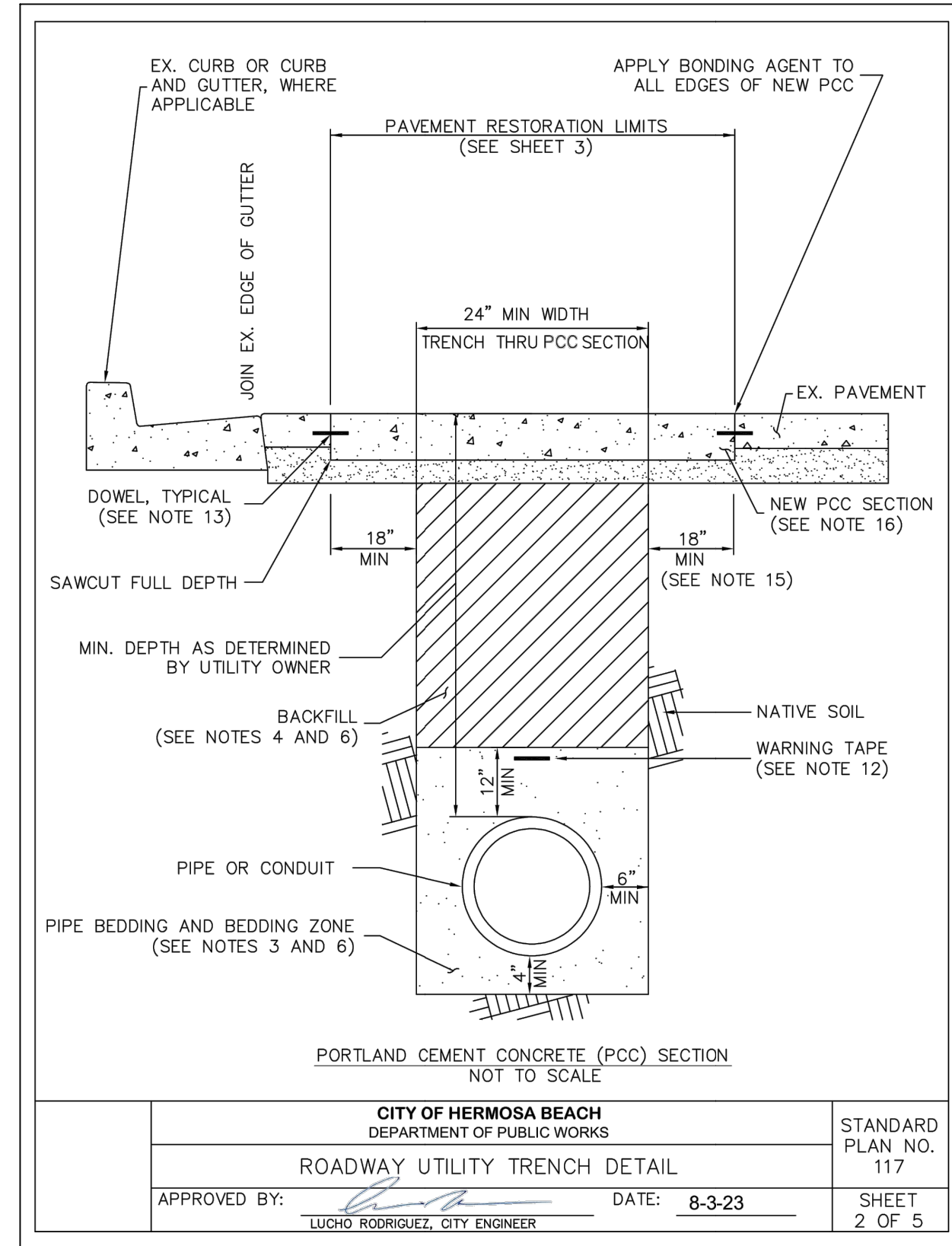
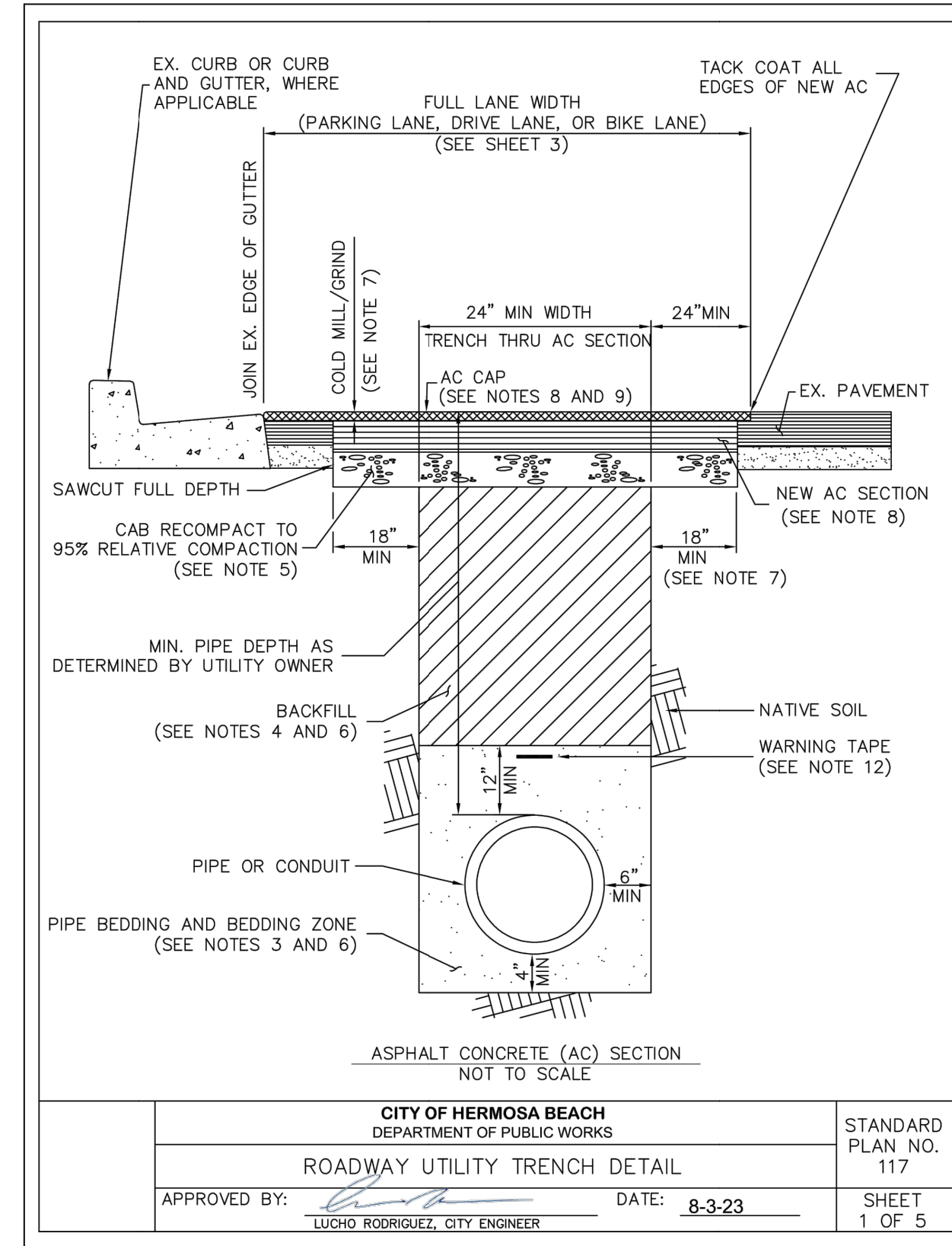
NO.	PIPE (U/S MAH - D/S MAH)	APPROX. LENGTH (LF)	DIAMETER (IN)	DEPTH (FT)	SHEET	NO. OF TAP FACTORY Y'S	PAVEMENT	NOTES
1	MAH-793 / MAH-792	394	8	4.8	6	31	ASPH	MULTIPLE FRACTURES AND BREAKS
2	MAH-1069 / CO-500	230	8	5.2	7	10	ASPH	MULTIPLE FRACTURES, DEFECTIVE LATERALS
3	MAH-1070 / MAH-1067	137	8	9.3	7	2	ASPH	MULTIPLE CRACKS THROUGHOUT
4	MAH-1096 / MAH-1095	267	8	4.0	8	6	ASPH	LARGE JOINT OFFSET
5	MAH-1096A / MAH-1096	296	8	4.5	8	20	ASPH	SAG IN PIPE, DEFECTIVE LATERALS
6	MAH-1097 / MAH-1097A	276	8	3.8	9	20	ASPH/CONC. (GUTTER)	MULTIPLE FRACTURES AND BREAKS
7	MAH-1001 / MAH-172	94	8	7.5	9	6	ASPH	MULTIPLE BREAKS, CORRODED PIPE
8	MAH-697 / MAH-611	237	8	6.6	10	3	ASPH	MULTIPLE CRACKS AND FRACTURES
9	MAH-694 / MAH-691	435	8	7.5	10	32	ASPH	SEVERE CORROSION, BROKEN PIPE WITH SOIL VISIBLE
10	MAH-1100 / MAH-1099	276	8	1.9	11	7	ASPH	SAG IN PIPE, CORROSION
11	MAH-PROP 2 / MAH-PROP 1	153	8	8.0	12	4	ASPH	MULTIPLE FRACTURES AND BREAKS
12	MAH-PROP 3 / MAH-PROP 2	191	8	8.1	12	13	ASPH	MULTIPLE FRACTURES AND BREAKS
13	MAH-PROP 5 / MAH-PROP 4	256	8	11.6	13	12	ASPH	SEWER MAIN UNDER SIDEWALK
14	MAH-PROP 6 / MAH-PROP 5	244	8	7.0	13/14	9	ASPH	BROKEN PIPE, AGGREGATE VISIBLE
15	MAH-PROP 8 / MAH-PROP 7	288	8	8.9	15	16	ASPH	FRACTURE, SAG, BROKEN PIPE
16	MAH-PROP 9 / MAH-PROP 8	328	8	4.8	15/16	15	ASPH	MULTIPLE FRACTURES, MULTIPLE ROOT BALLS
17	MAH-PROP 10 / MAH-PROP 11	95	8	8.7	17	3	ASPH	MULTIPLE SAGS, AGGREGATE VISIBLE
18	MAH-PROP 11 / MAH-105	121	8	8.7	17	6	ASPH	MULTIPLE SAGS, AGGREGATE VISIBLE
19	MAH-PROP 13 / MAH-PROP 12	179	8	5.7	18	9	ASPH	SAG IN PIPE, MULTIPLE ROOT BALLS
20	MAH-PROP 14 / MAH-PROP 13	295	8	5.8	18/19	16	ASPH	SAG IN PIPE, MULTIPLE ROOT BALLS
<b>TOTAL</b>		<b>4792</b>				<b>240</b>		

**POINT REPAIR (PIPE REPLACEMENT) SCHEDULE**

NO.	PIPE (U/S MAH / D/S MAH)	LENGTH (LF)	DIAMETER (IN)	DEPTH (FT)	SHEET	NO. OF TAP FACTORY Y'S	PAVEMENT	NOTES
1	MAH-786 / MAH-781	4	8	9.1	22	1	ASPH	BROKEN PIPE BELOW LATERAL
2	MAH-126A / MAH-122	4	6	14.9	22	1	ASPH	LARGE OFFSET LATERAL CONNECTION
3	MAH-847 / MAH-846	4	8	6.1	22	1	ASPH	MAJOR ROOT INTRUSION AT LATERAL
4	MAH-651 / MAH-650	4	8	3.7	23	0	ASPH	FRACTURE/BROKEN PIPE
5	MAH-1099 / MAH-1098	34	8	1.8	23	0	ASPH	SAG IN PIPE
6	MAH-1097 / MAH-1096	23	10	3.5	8	1	ASPH	SAG IN PIPE
7	MAH-0571 / MAH-514	4	8	11.0	23	0	GRASS	REMOVE A JETTING NOZZLE
<b>TOTAL (6")</b>		<b>4</b>						
<b>TOTAL (8")</b>		<b>50</b>						
<b>TOTAL (10")</b>		<b>23</b>						
<b>TOTAL</b>		<b>77</b>						

**LEGEND**

- 1 POINT REPAIR (PIPE REPLACEMENT)
- ① REMOVE AND REPLACE



**NOTES:**

- STREETS/ALLEYS SLURRY SEALED, RESURFACED, OR CONSTRUCTED WITHIN 5 YEARS SHALL BE FINISHED WITH SLURRY SEAL TO A MINIMUM OF HALF OF THE ROADWAY WIDTH AS DETERMINED BY THE CITY.
- IF THE UTILITY TRENCH IS WITHIN 2 FEET OF CURB AND GUTTER, CURB, ANOTHER REPAIR, AND/OR JOINT IN THE PAVEMENT, THE AC OR PCC BETWEEN SHALL BE REMOVED AT FULL DEPTH AND RECONSTRUCTED PER NOTE 8 OR 16.
- BEDDING MATERIAL SHALL BE WET SAND OR NATIVE FREE-DRAINING GRANULAR MATERIAL CONFORMING TO SSPWC SECTION 306-6.
- BACKFILL ABOVE BEDDING ZONE AND BELOW BASE SECTION SHALL BE NATIVE OR APPROVED IMPORT, COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION, OR MINIMUM 1-SACK SAND CEMENT SLURRY AS APPROVED BY THE CITY.
- A MINIMUM OF 6 INCHES BELOW THE AC SECTION SHALL BE CLASS II CRUSHED AGGREGATE BASE (CAB) COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPACTION TESTING AS NEEDED BY A QUALIFIED SOILS/DEPUTY INSPECTOR FOR EVIDENCE OF PROPER COMPACTION ACHIEVED. COMPACTION TESTS SHALL BE PERFORMED AT MINIMUM INTERVALS OF TWO VERTICAL FEET AND 50 LINEAR FEET OR AS DIRECTED BY THE CITY PRIOR TO AC PAVING. JETTING IS PERMITTED WHEN APPROVED BY THE CITY AND CONFORMING TO SSPWC 308-12.4.
- UPON COMPLETION OF BACKFILL, EXISTING AC SHALL BE SAW-CUT AT FULL DEPTH A MINIMUM OF 18 INCHES OUTSIDE TRENCH FOR FULL DEPTH RECONSTRUCTION OR AS DIRECTED BY CITY. THE EXISTING AC SHALL BE COLD PLANNED (2 INCHES MIN. DEPTH) THE FULL WIDTH OF THE TRAFFIC LANE(S) (VEHICLE AND/OR BIKE) IMPACTED BY THE TRENCH.
- AC SHALL BE REPLACED WITH C2-PG 64-10, 3/4 INCH BASE COURSE AND CAPPED WITH A MINIMUM OF 2 INCHES OF 1/2 INCH FINE COURSE AC. THICKNESS OF NEW AC SHALL BE A MINIMUM OF 5 INCHES OR 1 INCH GREATER THAN EXISTING, WHICHEVER IS GREATER.
- AC CAP SHALL BE FINISHED FLUSH WITH EXISTING AC AND MATCH EXISTING PAVEMENT SLOPE, PROVIDING A SMOOTH SURFACE PER SSPWC SECTION 302-5. PAVEMENT FINISH SURFACE SHALL BE SUBJECT TO ACCEPTANCE BY THE PUBLIC WORKS INSPECTOR.
- THE CONTRACTOR SHALL REPLACE TRAFFIC STRIPING, PAVEMENT MARKINGS, AND CURB MARKINGS REMOVED OR DAMAGED BY THE WORK WITH LIKE KIND MATERIALS TO MATCH EXISTING STRIPING.
- TRENCH REPAIR MUST BE UNIFORM AND SQUARE. ZIG ZAG TRENCHES ARE NOT ALLOWED.
- PLACE UNDERGROUND WARNING TAPE PER APWA UNIFORM COLOR CODE. USE 3 INCH WIDE DETECTABLE WARNING TAPE FOR PIPES AT DEPTH UP TO 24 INCHES AND 8 INCH WIDE DETECTABLE WARNING TAPE FOR PIPES AT DEPTH BETWEEN 24 INCHES AND 36 INCHES FOR PIPES AT DEPTH GREATER THAN 36 INCHES. USE UNDETECTABLE WARNING TAPE.

**NOTES:**

- CONCRETE PAVEMENT RESTORATION SHALL BE DOWELED TO EXISTING CONCRETE PAVEMENT WITH #4 DOWELS AT 16 INCHES O.C. WITH APPROVED EPOXY. MINIMUM EMBEDMENT IS 4 INCHES.
- FOR CONCRETE PAVEMENT RESTORATION, APPLY BONDING AGENT TO ALL EXISTING EXPOSED CONCRETE SURFACES PRIOR TO POURING FRESH CONCRETE. BONDING AGENT SHALL BE SIKKA-AMIRAC-110/POCEM ADHESIVE OR APPROVED EQUAL. SURFACES TO RECEIVE BONDING AGENT SHALL BE CLEAN AND FREE OF DIRT AND OTHER LOOSE MATERIALS.
- UPON COMPLETION OF BACKFILL, EXISTING PCC SHALL BE SAW-CUT AT FULL DEPTH A MINIMUM OF 18 INCHES OUTSIDE TRENCH FOR FULL DEPTH RECONSTRUCTION OR AS DIRECTED BY CITY. SAWCUTTING IS REQUIRED AROUND THE PERIMETER OF THE FINAL EDGE OF ALL EXCAVATIONS TO PROVIDE CLEAN, VERTICAL LINES.
- NEW PCC PAVEMENT SHALL BE 560-C-3250 OR HIGHER. THICKNESS OF NEW PCC SHALL BE A MINIMUM OF 6 INCHES OR 1 INCH GREATER THAN EXISTING, WHICHEVER IS GREATER.
- PCC SHALL BE FINISHED FLUSH WITH EXISTING PCC AND MATCH EXISTING PAVEMENT SLOPE, PROVIDING A SMOOTH SURFACE PER SSPWC SECTION 302-6. PAVEMENT FINISH SURFACE SHALL BE SUBJECT TO ACCEPTANCE BY THE PUBLIC WORKS INSPECTOR.

**TYPICAL TRENCH DETAIL**  
NOT TO SCALE

**DIG ALERT**  
DIAL TOLL FREE  
1-800-422-4133  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT  
OF SOUTHERN CALIFORNIA

REVISIONS		
No.	DESCRIPTION	DATE

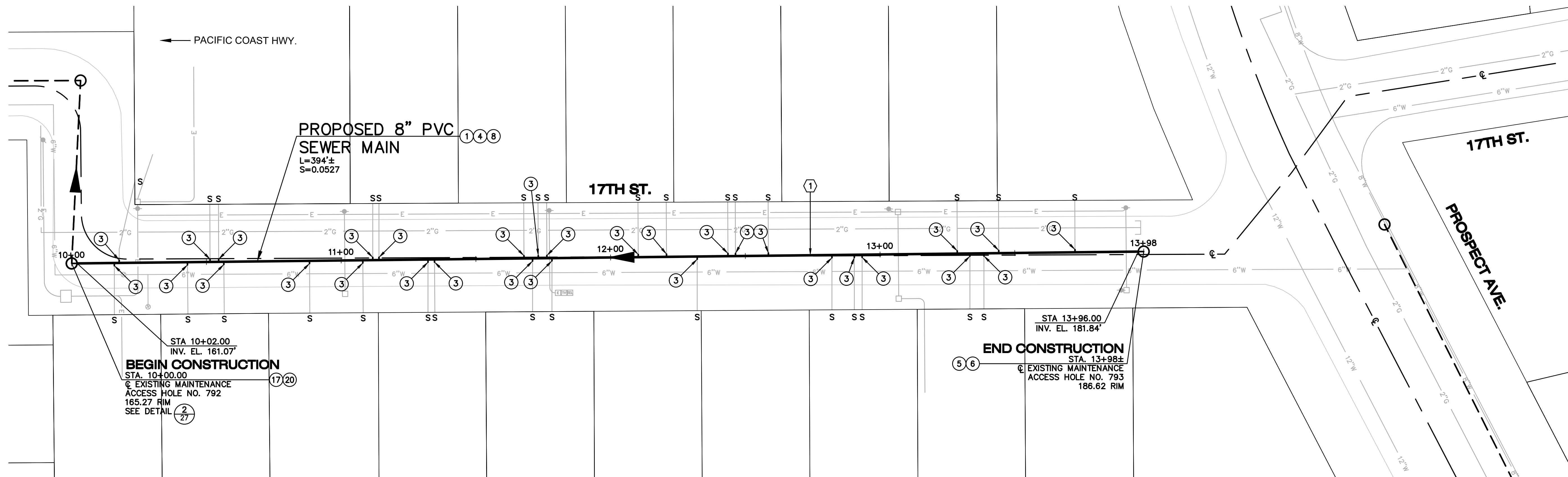
PLANS PREPARED BY:  
**PSOMAS**  
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SANTA ANA, CA 92707  
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*M. Salcedo*  
MIRA SALCEDO, P.E., RCE 77370  
12/22/23  
DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT  
RECOMMENDED FOR PERMIT ISSUANCE:  
*[Signature]*  
5-15-24  
DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2  
PIPE REHAB/REPAIR SCHEDULE

FILE NUMBER  
23-010  
G-05  
SHT. 5 OF 31

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**LEGEND**

- ① POINT REPAIR (PIPE REPLACEMENT)
- ① REMOVE AND REPLACE

**NOTE:**

1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
2. REFER TO SHEETS 222-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.

17TH ST. - BETWEEN PACIFIC COAST HWY. AND PROSPECT AVE. ①



**CAUTION!**  
OVERHEAD POWER LINES



**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034), TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑤ PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- ⑥ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑩ REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.
- ⑫ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.

**SEWER LATERALS  
MAH-793 TO MAH-792**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
10+26	6" TFW	162.3±	CONNECT EX. VCP LATERAL
10+54	6" TFW	163.8±	CONNECT EX. VCP LATERAL
10+59	6" TFW	164.1±	CONNECT EX. VCP LATERAL
10+65	6" TFW	164.4±	CONNECT EX. VCP LATERAL
10+69	6" TFW	164.6±	CONNECT EX. VCP LATERAL
11+05	6" TFW	166.5±	CONNECT EX. VCP LATERAL
11+07	6" TFW	166.6±	CONNECT EX. VCP LATERAL
11+16	6" TFW	167.1±	CONNECT EX. VCP LATERAL
11+39	6" TFW	168.3±	CONNECT EX. VCP LATERAL
11+52	6" TFW	169.0±	CONNECT EX. VCP LATERAL
11+54	6" TFW	169.1±	CONNECT EX. VCP LATERAL
11+66	6" TFW	169.7±	CONNECT EX. VCP LATERAL
11+77	6" TFW	170.3±	CONNECT EX. VCP LATERAL
11+88	6" TFW	170.9±	CONNECT EX. VCP LATERAL
12+20	6" TFW	172.6±	CONNECT EX. VCP LATERAL
12+22	6" TFW	172.7±	CONNECT EX. VCP LATERAL
12+25	6" TFW	172.8±	CONNECT EX. VCP LATERAL
12+27	6" TFW	172.9±	CONNECT EX. VCP LATERAL
12+30	6" TFW	173.1±	CONNECT EX. VCP LATERAL
12+63	6" TFW	174.8±	CONNECT EX. VCP LATERAL
12+66	6" TFW	175.0±	CONNECT EX. VCP LATERAL
12+84	6" TFW	175.9±	CONNECT EX. VCP LATERAL
12+86	6" TFW	176.0±	CONNECT EX. VCP LATERAL
12+90	6" TFW	176.2±	CONNECT EX. VCP LATERAL
13+10	6" TFW	177.3±	CONNECT EX. VCP LATERAL
13+41	6" TFW	178.9±	CONNECT EX. VCP LATERAL
13+43	6" TFW	179.0±	CONNECT EX. VCP LATERAL
13+47	6" TFW	179.3±	CONNECT EX. VCP LATERAL
13+55	6" TFW	179.7±	CONNECT EX. VCP LATERAL
13+80	6" TFW	181.0±	CONNECT EX. VCP LATERAL
13+82	6" TFW	181.1±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:



**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
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TEL (714) 751-7373  
FAX (714) 545-8883

*M. Salcedo*  
12/22/23  
MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

REMOVE & REPLACE - 1/14

FILE NUMBER  
23-010

C-01

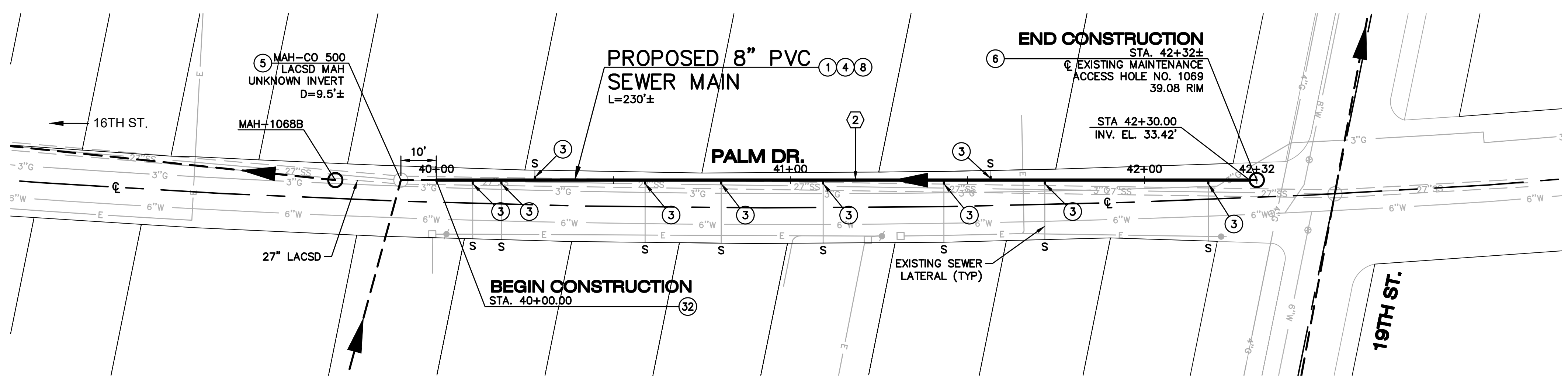
SHT. 6 OF 31

**CONSTRUCTION NOTES**

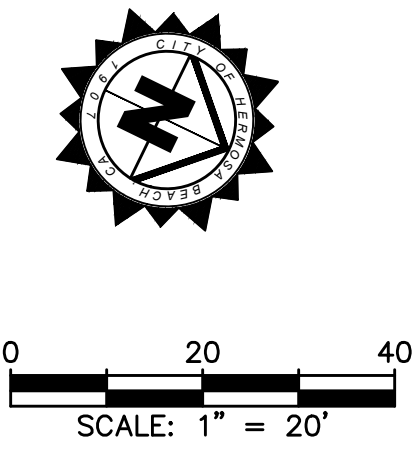
- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑤ PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- ⑥ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑪ REMOVE INTERFERING PORTIONS AND RECONNECT TO EXISTING SEWER MAIN.
- ⑬ REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE
- ⑰ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE DROP MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 202-2, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ⑳ CONNECT TO EXISTING SEWER PIPE WITH TRANSITION COUPLING, MATCH EXISTING SLOPE

**LEGEND**

- ① POINT REPAIR (PIPE REPLACEMENT)
- ① REMOVE AND REPLACE



PALM DR. - BETWEEN 19TH ST. AND 16TH ST.



**CAUTION!**  
OVERHEAD POWER LINES

**SEWER LATERALS**  
MAH-1069 TO CO-500

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
40+10	6" TFW	UNK	CONNECT EX. VCP LATERAL
40+18	6" TFW	UNK	CONNECT EX. VCP LATERAL
40+28	6" TFW	UNK	CONNECT EX. VCP LATERAL
40+59	6" TFW	UNK	CONNECT EX. VCP LATERAL
40+80	6" TFW	UNK	CONNECT EX. VCP LATERAL
41+09	6" TFW	UNK	CONNECT EX. VCP LATERAL
41+43	6" TFW	UNK	CONNECT EX. VCP LATERAL
41+57	6" TFW	UNK	CONNECT EX. VCP LATERAL
41+72	6" TFW	UNK	CONNECT EX. VCP LATERAL
42+18	6" TFW	UNK	CONNECT EX. VCP LATERAL

\*LATERAL STATION IS APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

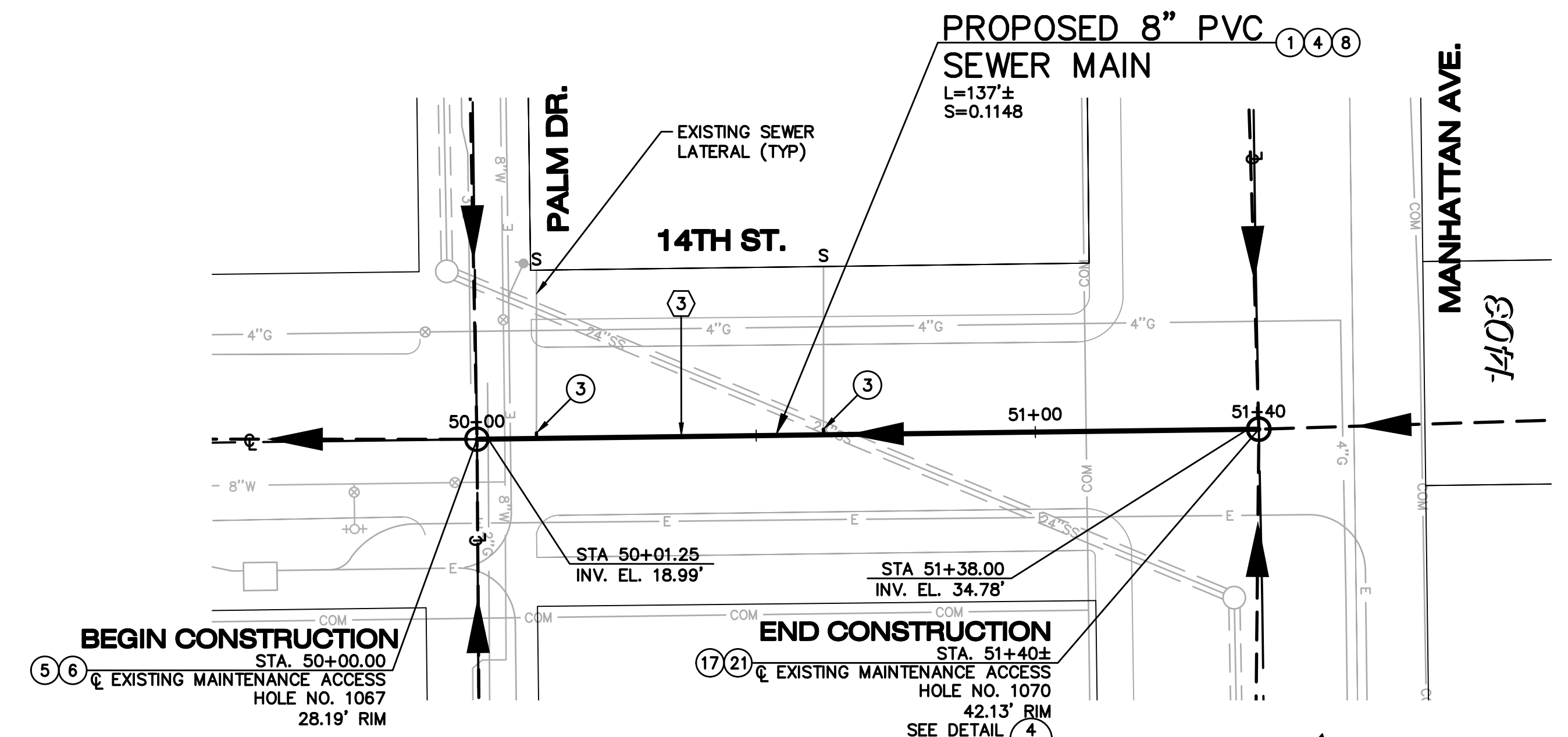
**NOTE:**

- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
- 2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.

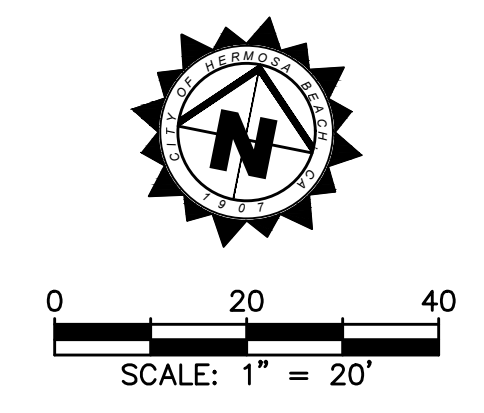
**SEWER LATERALS**  
MAH-1070 TO MAH-1067

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
50+15	6" TFW	20.5±	CONNECT EX. VCP LATERAL
50+67	6" TFW	26.5±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.



14TH ST. - BETWEEN PALM DR. AND MANHATTAN AVE.



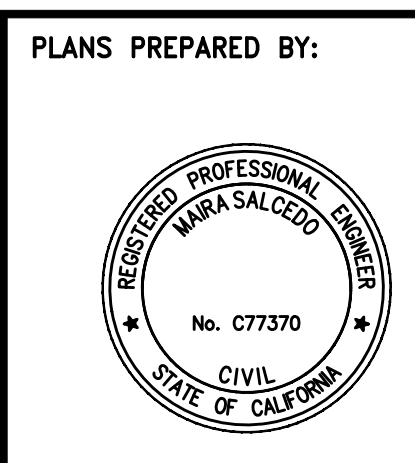
**CAUTION!**  
OVERHEAD POWER LINES

**NOTE:**

- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
- 2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.



REVISIONS		
No.	DESCRIPTION	DATE



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FAX (714) 545-8883

*M. Salcedo*  
MIRA SALCEDO, P.E., RCE 77370  
DATE 12/22/23

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
DATE 5-15-24

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

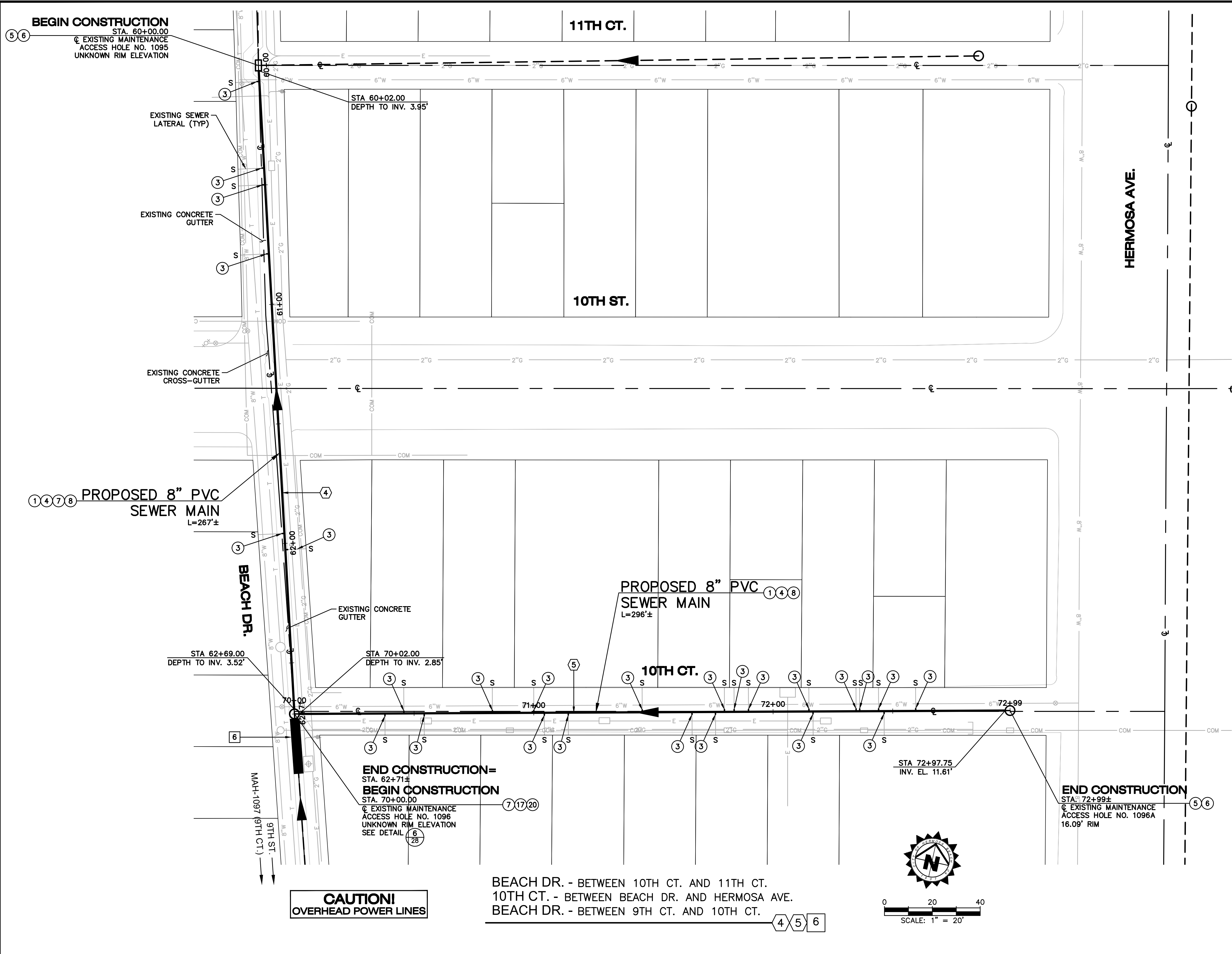
REMOVE & REPLACE - 2/14

FILE NUMBER  
23-010

C-02

SHT. 7 OF 31

M:\2\HERO30503\WATERS\TASKS\FINAL DESIGN\SHEETS\C-02-RR.dwg 12/22/23 - 10:05am ben.halbach



### CONSTRUCTION NOTES

- 1 CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034), TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- 3 CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- 4 REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- 5 PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- 6 BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- 7 REMOVE AND RECONSTRUCT LONGITUDINAL GUTTER PER SPPWC STANDARD PLAN NO. 122-3.
- 8 REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- 17 REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.
- 20 CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.

### LEGEND

- 1 POINT REPAIR (PIPE REPLACEMENT)
- 1 REMOVE AND REPLACE

**NOTE:**

1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE REHABILITATION/MODIFICATIONS.

RECONSTRUCTION SCHEDULE - 10" SDR-35 PVC  
FROM MAH-1097 TO MAH-1096

FROM	TO	LENGTH	HOUSE CONN.
252' D/S	275' D/S	23'	1 TAP FACTORY Y'S
TOTAL		23'	1 TAP FACTORY Y'S

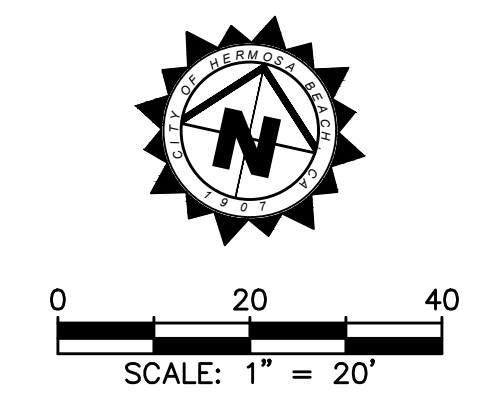
SEWER LATERALS  
MAH-1096 TO MAH-1095

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
60+07	6" TFW	UNK	CONNECT EX. VCP LATERAL
60+43	6" TFW	UNK	CONNECT EX. VCP LATERAL
60+50	6" TFW	UNK	CONNECT EX. VCP LATERAL
60+79	6" TFW	UNK	CONNECT EX. VCP LATERAL
61+96	6" TFW	UNK	CONNECT EX. VCP LATERAL
62+03	6" TFW	UNK	CONNECT EX. VCP LATERAL

SEWER LATERALS  
MAH-1096A TO MAH-1096

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
70+43	6" TFW	UNK	CONNECT EX. VCP LATERAL
70+49	6" TFW	UNK	CONNECT EX. VCP LATERAL
70+60	6" TFW	UNK	CONNECT EX. VCP LATERAL
70+88	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+05	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+10	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+20	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+51	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+71	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+81	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+89	6" TFW	UNK	CONNECT EX. VCP LATERAL
71+95	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+30	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+32	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+50	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+51	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+59	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+61	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+75	6" TFW	UNK	CONNECT EX. VCP LATERAL
72+51	6" TFW	UNK	CONNECT EX. VCP LATERAL

\*LATERAL STATION IS APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.



BEACH DR. - BETWEEN 10TH CT. AND 11TH CT.  
10TH CT. - BETWEEN BEACH DR. AND HERMOSA AVE.  
BEACH DR. - BETWEEN 9TH CT. AND 10TH CT.

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
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*M. Salcedo*  
MIRA SALCEDO, P.E., RCE 77370  
12/22/23  
DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24  
DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

REMOVE & REPLACE - 3/14

FILE NUMBER  
23-010

C-03

SHT. 8 OF 31

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# CONSTRUCTION NOTES

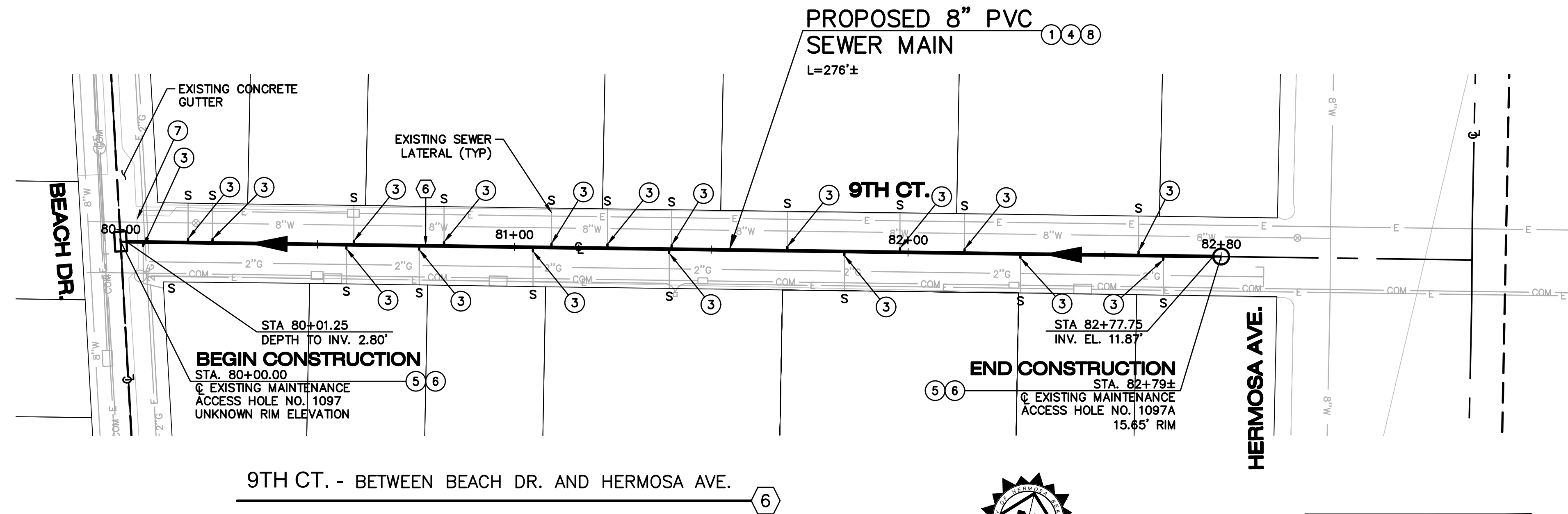
- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑤ PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- ⑥ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- ⑦ REMOVE AND RECONSTRUCT CROSS GUTTER PER SPPWC STANDARD PLAN NO. 122-3.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑮ RECONSTRUCT MAINTENANCE ACCESS HOLE BENCH AND CHANNEL. CONTRACTOR TO VERIFY CORRECT FLOW DIRECTION.
- ⑳ REPAIR CONCRETE SIDEWALK IN-KIND PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 106.
- ㉑ REMOVE AND REPLACE WHEELCHAIR ACCESS RAMP PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 114.
- ㉒ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE INSTALL 8" DROP INLET PER SPPWC STANDARD PLAN NO. 202-2.

**NOTE:**

1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE REHABILITATION/MODIFICATIONS.

## LEGEND

- ① POINT REPAIR (PIPE REPLACEMENT)
- ① REMOVE AND REPLACE



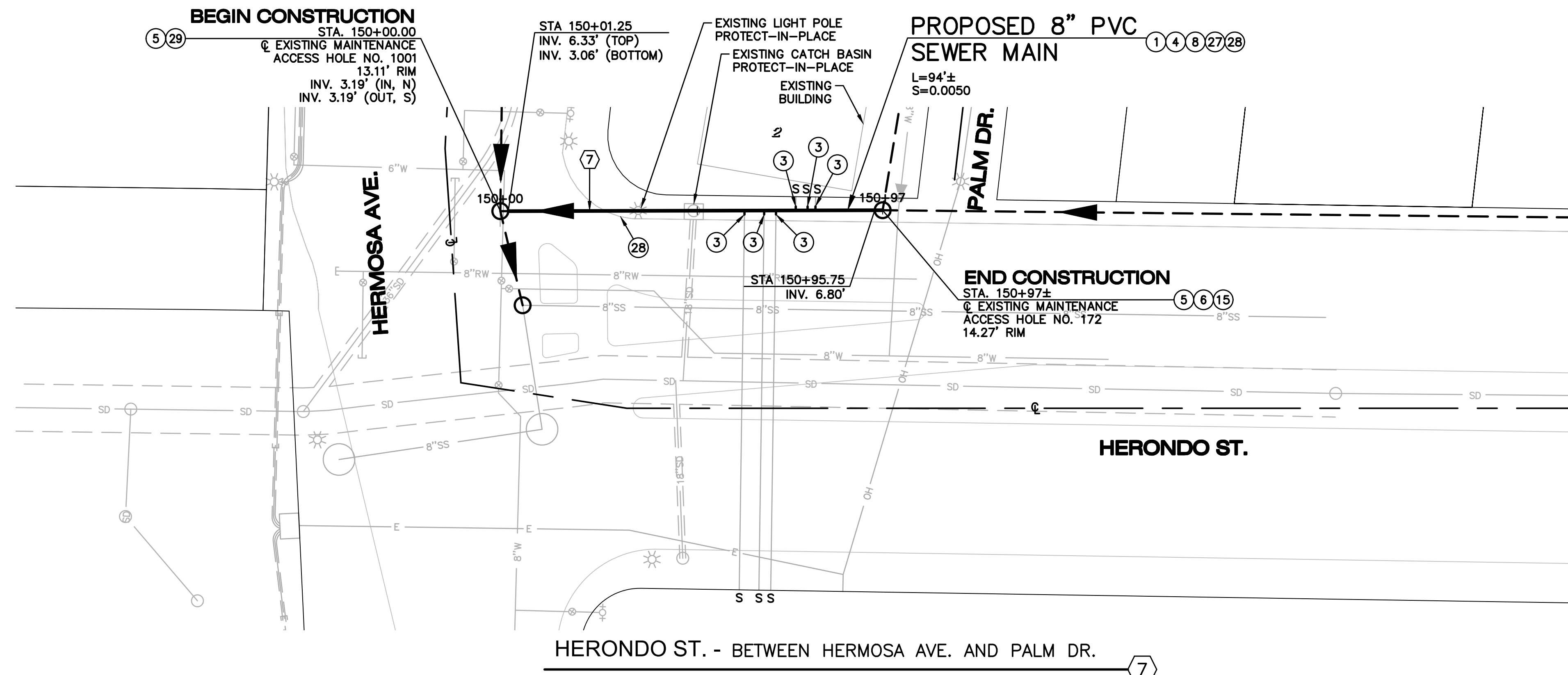
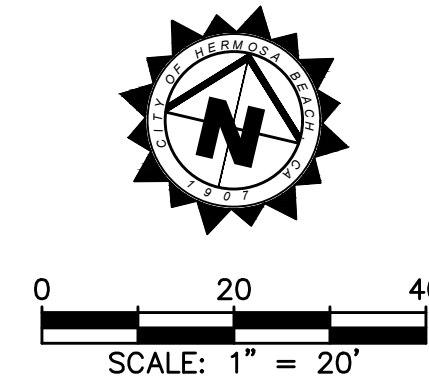
### SEWER LATERALS MAH-1097A TO MAH-1097

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
80+04	6" TFW	UNK	CONNECT EX. VCP LATERAL
80+16	6" TFW	UNK	CONNECT EX. VCP LATERAL
80+22	6" TFW	UNK	CONNECT EX. VCP LATERAL
80+56	6" TFW	UNK	CONNECT EX. VCP LATERAL
80+58	6" TFW	UNK	CONNECT EX. VCP LATERAL
80+74	6" TFW	UNK	CONNECT EX. VCP LATERAL
80+81	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+03	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+08	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+22	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+38	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+38	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+68	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+82	6" TFW	UNK	CONNECT EX. VCP LATERAL
81+96	6" TFW	UNK	CONNECT EX. VCP LATERAL
82+13	6" TFW	UNK	CONNECT EX. VCP LATERAL
82+27	6" TFW	UNK	CONNECT EX. VCP LATERAL
82+57	6" TFW	UNK	CONNECT EX. VCP LATERAL
82+63	6" TFW	UNK	CONNECT EX. VCP LATERAL

\*LATERAL STATION IS APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

9TH CT. - BETWEEN BEACH DR. AND HERMOSA AVE.

**CAUTION!**  
OVERHEAD POWER LINES



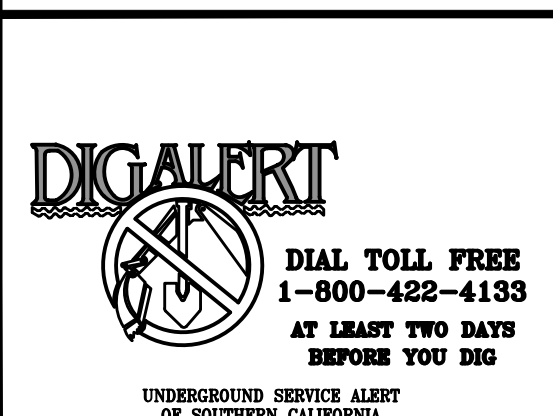
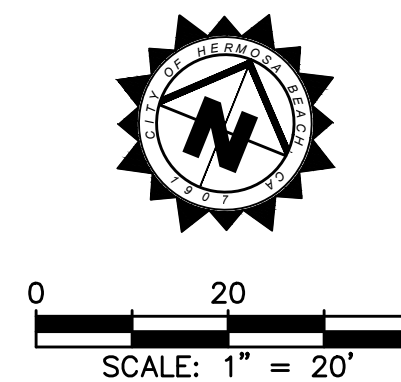
### SEWER LATERALS MAH-1001 TO MAH-172

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
150+62	6" TFW	6.6±	CONNECT EX. VCP LATERAL
150+67	6" TFW	6.7±	CONNECT EX. VCP LATERAL
150+70	6" TFW	6.7±	CONNECT EX. VCP LATERAL
150+75	6" TFW	6.7±	CONNECT EX. VCP LATERAL
150+78	6" TFW	6.7±	CONNECT EX. VCP LATERAL
150+80	6" TFW	6.7±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

HERONDO ST. - BETWEEN HERMOSA AVE. AND PALM DR.

**CAUTION!**  
OVERHEAD POWER LINES



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

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*M. Salcedo*  
Maira Salcedo, P.E., RCE 77370  
DATE 12/22/23

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
DATE 5-15-24

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

REMOVE & REPLACE - 4/14

FILE NUMBER  
23-010

C-04

SHT. 9 OF 31

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**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑫ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 22.
- ⑭ APPLY FULL DEPTH POLYURETHANE SPRAY LINER (OR APPROVED EQUAL) FOR MAINTENANCE ACCESS HOLE REHABILITATION PER SPECIFICATION SECTION 33 01 38.
- ⑮ RECONSTRUCT MAINTENANCE ACCESS HOLE BENCH AND CHANNEL. CONTRACTOR TO VERIFY CORRECT FLOW DIRECTION.
- ⑰ REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.
- ⑳ REMOVE AND REPLACE CONCRETE PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 115.

**NOTE:**

- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
- 2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE REHABILITATION/MODIFICATIONS.

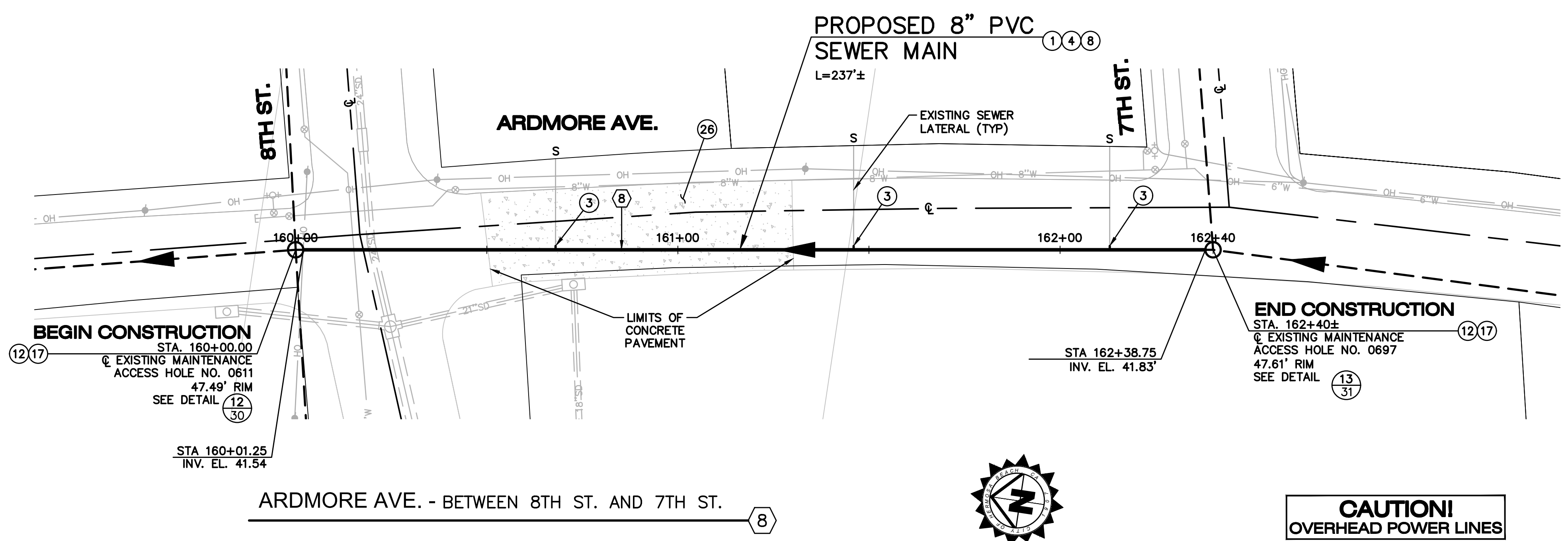
**LEGEND**

- ① POINT REPAIR (PIPE REPLACEMENT)
- ① REMOVE AND REPLACE

**SEWER LATERALS  
MAH-697 TO MAH-611**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
160+68	6" TFW	41.6±	CONNECT EX. VCP LATERAL
161+46	6" TFW	41.7±	CONNECT EX. VCP LATERAL
162+13	6" TFW	41.8±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

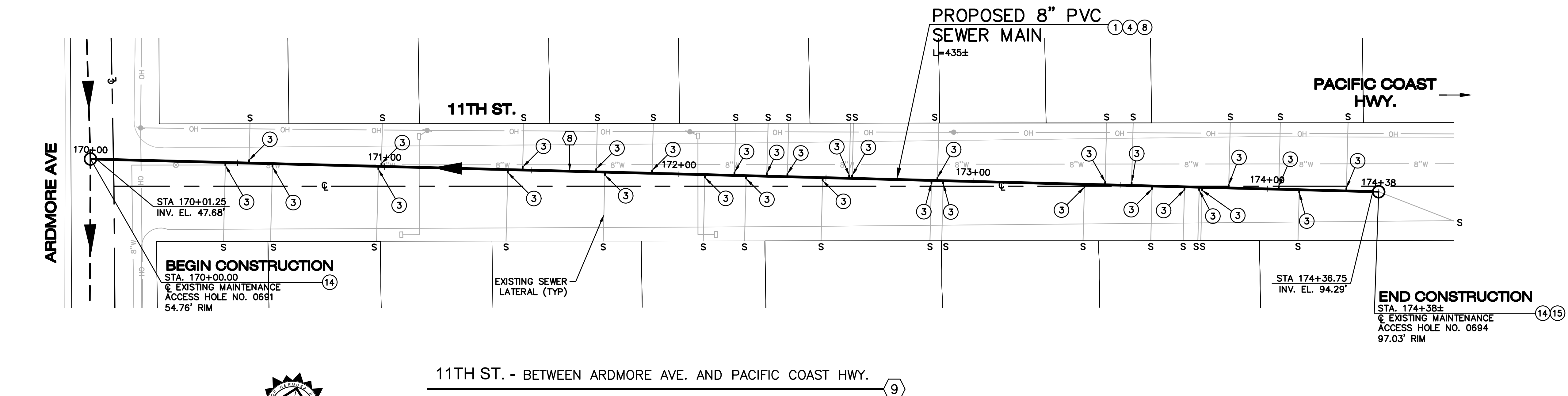


**CAUTION!  
OVERHEAD POWER LINES**

**SEWER LATERALS  
MAH-694 TO MAH-691**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
170+46	6" TFW	52.6±	CONNECT EX. VCP LATERAL
170+54	6" TFW	53.4±	CONNECT EX. VCP LATERAL
170+60	6" TFW	54.1±	CONNECT EX. VCP LATERAL
170+96	6" TFW	57.9±	CONNECT EX. VCP LATERAL
170+97	6" TFW	58.0±	CONNECT EX. VCP LATERAL
171+40	6" TFW	62.6±	CONNECT EX. VCP LATERAL
171+45	6" TFW	63.1±	CONNECT EX. VCP LATERAL
171+70	6" TFW	65.8±	CONNECT EX. VCP LATERAL
171+73	6" TFW	66.1±	CONNECT EX. VCP LATERAL
171+89	6" TFW	67.8±	CONNECT EX. VCP LATERAL
172+07	6" TFW	69.7±	CONNECT EX. VCP LATERAL
172+17	6" TFW	70.8±	CONNECT EX. VCP LATERAL
172+21	6" TFW	71.2±	CONNECT EX. VCP LATERAL
172+28	6" TFW	71.9±	CONNECT EX. VCP LATERAL
172+35	6" TFW	72.7±	CONNECT EX. VCP LATERAL
172+47	6" TFW	74.0±	CONNECT EX. VCP LATERAL
172+55	6" TFW	74.8±	CONNECT EX. VCP LATERAL
172+57	6" TFW	75.0±	CONNECT EX. VCP LATERAL
172+84	6" TFW	77.9±	CONNECT EX. VCP LATERAL
172+86	6" TFW	78.1±	CONNECT EX. VCP LATERAL
172+88	6" TFW	78.3±	CONNECT EX. VCP LATERAL
173+36	6" TFW	83.4±	CONNECT EX. VCP LATERAL
173+43	6" TFW	84.2±	CONNECT EX. VCP LATERAL
173+52	6" TFW	85.1±	CONNECT EX. VCP LATERAL
173+59**	6" TFW	89.5±	CONNECT EX. VCP LATERAL
173+70**	6" TFW	87.0±	CONNECT EX. VCP LATERAL
173+75**	6" TFW	87.6±	CONNECT EX. VCP LATERAL
173+76**	6" TFW	87.7±	CONNECT EX. VCP LATERAL
173+85	6" TFW	88.6±	CONNECT EX. VCP LATERAL
174+02	6" TFW	90.4±	CONNECT EX. VCP LATERAL
174+09	6" TFW	91.2±	CONNECT EX. VCP LATERAL
174+25	6" TFW	92.9±	CONNECT EX. VCP LATERAL

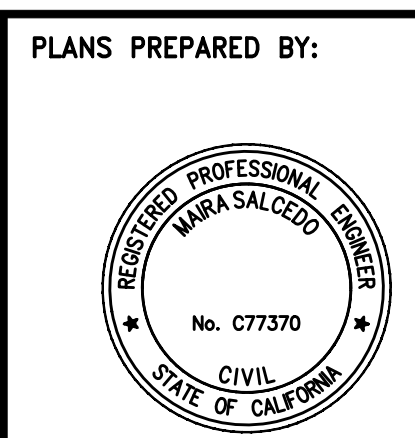
\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.  
\*\*CONTRACTOR TO LOCATE AND CONFIRM LATERAL LOCATION. ENGINEER UNABLE TO OBSERVE LATERAL FOR THIS PARCEL, BUT OBSERVED VOIDS IN CCTV INSPECTION THAT MAY INDICATE LATERAL LOCATION.



**CAUTION!  
OVERHEAD POWER LINES**



REVISIONS		
No.	DESCRIPTION	DATE



**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
SANTA ANA, CA 92707  
TEL (714) 751-7373  
FAX (714) 545-8883  
*M. Salcedo*  
MAIRA SALCEDO, P.E., RCE 77370 DATE 12/22/23

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT  
RECOMMENDED FOR PERMIT ISSUANCE:  
*[Signature]*  
5-15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2  
**REMOVE & REPLACE - 5/14**

FILE NUMBER  
23-010  
**C-05**  
SHT. 10 OF 31

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### CONSTRUCTION NOTES

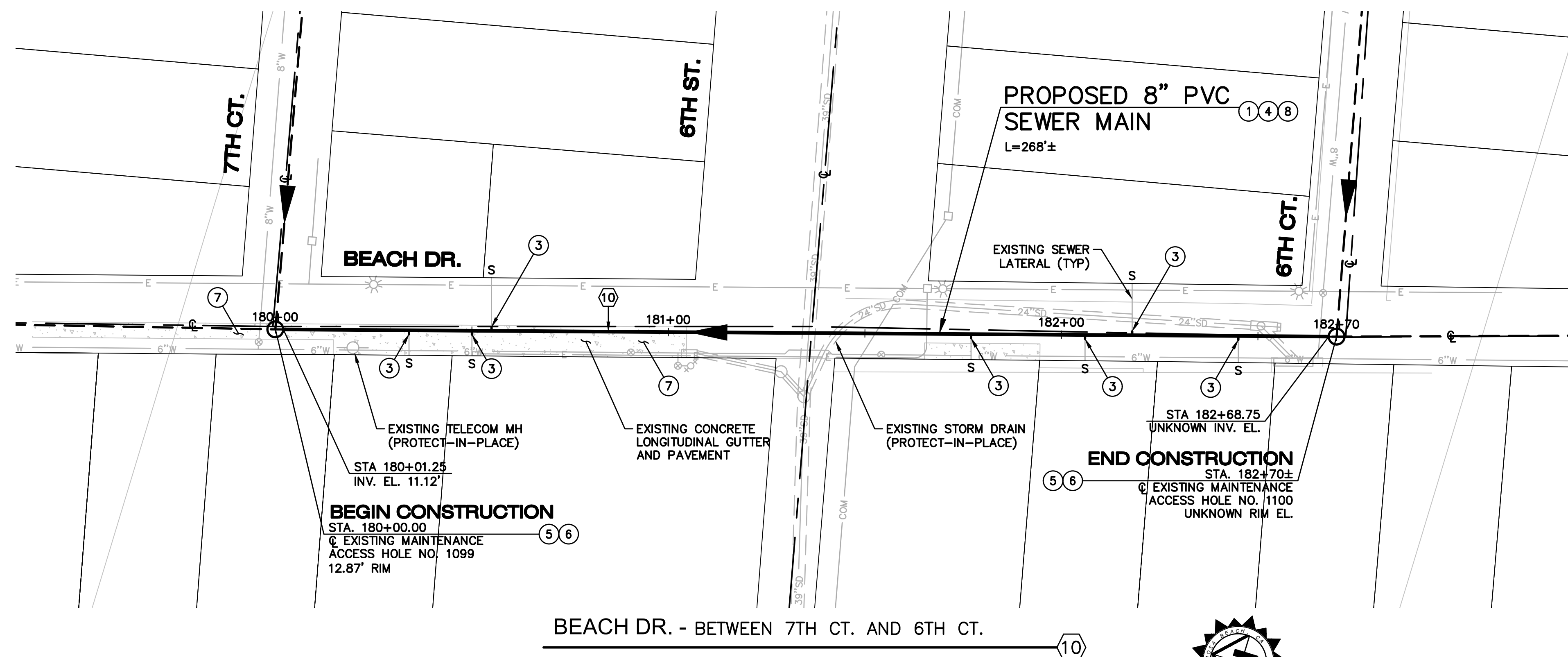
- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑤ PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- ⑥ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- ⑦ REMOVE AND REPLACE CONCRETE LONGITUDINAL GUTTER PER SPPWC STANDARD PLAN 122-3.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.

**NOTE:**

1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE REHABILITATION/MODIFICATIONS.

### LEGEND

- ① POINT REPAIR (PIPE REPLACEMENT)
- ⑧ REMOVE AND REPLACE



SEWER LATERALS  
MAH-1100 TO MAH-1099

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
180+34	6" TFW	UNK	CONNECT EX. VCP LATERAL
180+50	6" TFW	UNK	CONNECT EX. VCP LATERAL
180+55	6" TFW	UNK	CONNECT EX. VCP LATERAL
181+77	6" TFW	UNK	CONNECT EX. VCP LATERAL
182+06	6" TFW	UNK	CONNECT EX. VCP LATERAL
182+18	6" TFW	UNK	CONNECT EX. VCP LATERAL
182+45	6" TFW	UNK	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

**CAUTION!**  
OVERHEAD POWER LINES

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
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TEL (714) 751-7373  
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*M. Salcedo*  
12/22/23  
MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

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ANNUAL SEWER IMPROVEMENTS PHASE 2

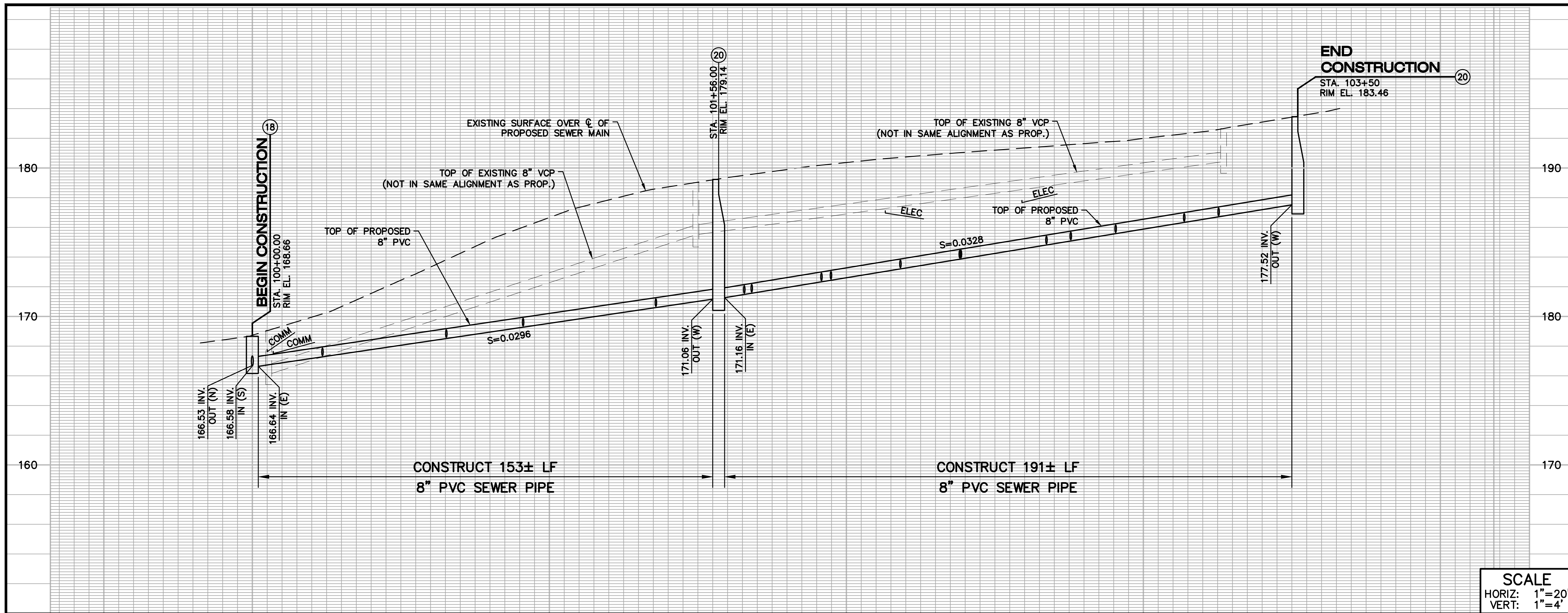
REMOVE & REPLACE - 6/14

FILE NUMBER  
23-010

**C-06**

SHT. 11 OF 31

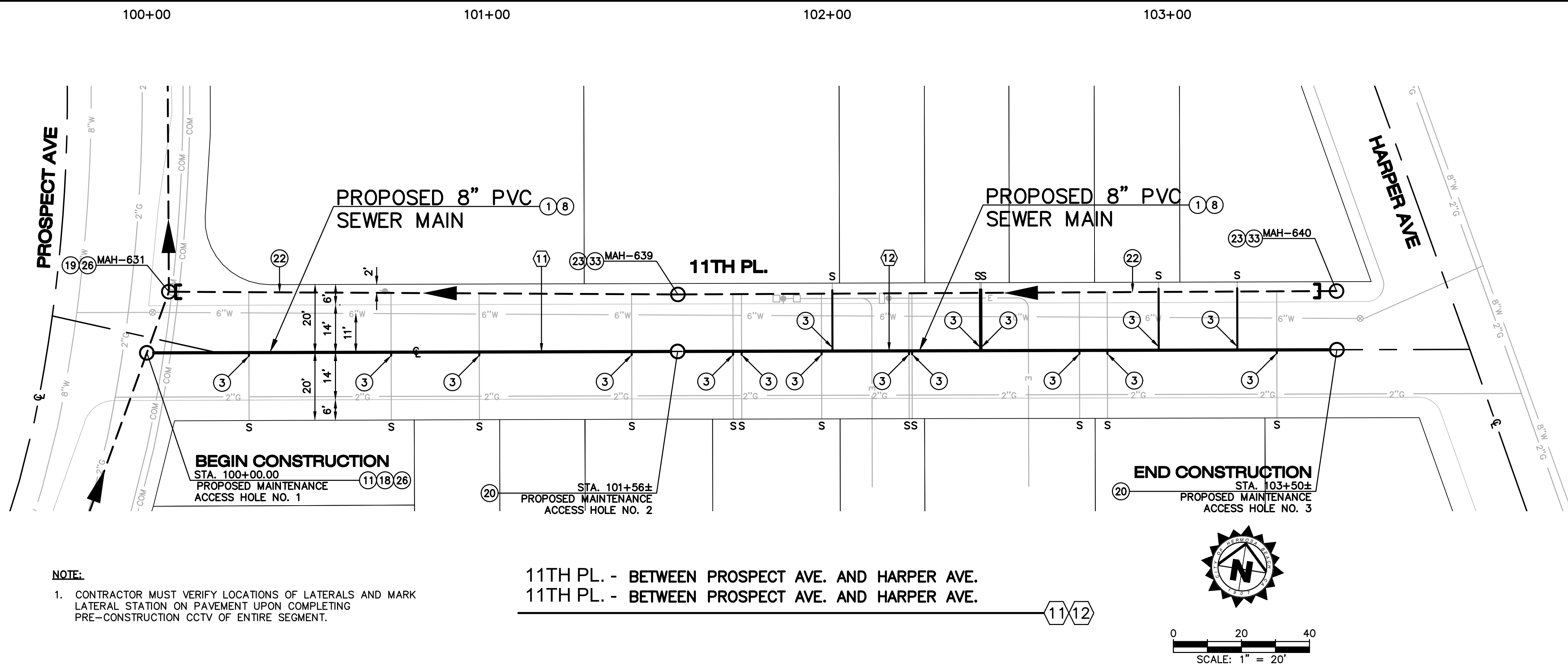
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### CONSTRUCTION NOTES

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034), TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑪ REMOVE INTERFERING PORTIONS AND RECONNECT TO EXISTING SEWER MAIN.
- ⑱ CONSTRUCT 48" I.D. CONCENTRIC PRECAST REINFORCED CONCRETE SHALLOW MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 201-3, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ⑲ CONSTRUCT 8" THICK BRICK AND MORTAR BULKHEAD (AT MAINTENANCE ACCESS HOLE WALL AND CHANNEL CONNECTION) FILL CHANNEL WITH SAND AND CAP WITH 2" MORTAR, LOCATION AS SHOWN IN PLANS.
- ⑳ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ㉒ ABANDON-IN-PLACE EXISTING SEWER MAIN, FILL WITH ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR PLUG AS NECESSARY.
- ㉓ ABANDON-IN-PLACE EXISTING MAINTENANCE ACCESS HOLE, REMOVE A MINIMUM OF 3 FEET BELOW GRADE, INCLUDING FRAME AND COVER, AND SLURRY FILL REMAINING STRUCTURE.
- ㉔ REMOVE MAINTENANCE ACCESS HOLE INCLUDING THE BASE, PLUG INLET(S) AND OUTLET, LOCATION AS SHOWN IN PLANS.
- ㉖ REMOVE AND REPLACE CONCRETE PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 115.
- ㉘ REMOVE AND REPLACE CONCRETE SIDEWALK TO NEAREST JUIT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 116.

SCALE  
HORIZ: 1"=20'  
VERT: 1"=4'



### SEWER LATERALS PROP MAH-6 TO PROP MAH-5

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
100+30	6" TFW	167.5±	CONNECT EX. VCP LATERAL
100+72	6" TFW	168.7±	CONNECT EX. VCP LATERAL
100+98	6" TFW	169.5±	CONNECT EX. VCP LATERAL
101+43	6" TFW	170.8±	CONNECT EX. VCP LATERAL

### SEWER LATERALS PROP MAH-7 TO PROP MAH-6

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
101+72	6" TFW	171.6±	CONNECT EX. VCP LATERAL
101+75	6" TFW	171.7±	CONNECT EX. VCP LATERAL
101+98	6" TFW	172.5±	CONNECT EX. VCP LATERAL
102+02	6" TFW	172.6±	CONNECT EX. VCP LATERAL
102+24	6" TFW	173.3±	CONNECT EX. VCP LATERAL
102+25	6" TFW	173.4±	CONNECT EX. VCP LATERAL
102+45	6" TFW	174.0±	CONNECT EX. VCP LATERAL
102+46	6" TFW	174.0±	CONNECT EX. VCP LATERAL
102+74	6" TFW	175.0±	CONNECT EX. VCP LATERAL
102+82	6" TFW	175.2±	CONNECT EX. VCP LATERAL
102+97	6" TFW	175.7±	CONNECT EX. VCP LATERAL
103+21	6" TFW	176.5±	CONNECT EX. VCP LATERAL
103+32	6" TFW	176.9±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

- NOTE:
1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.

11TH PL. - BETWEEN PROSPECT AVE. AND HARPER AVE.  
11TH PL. - BETWEEN PROSPECT AVE. AND HARPER AVE.



SCALE: 1" = 20'

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
SANTA ANA, CA 92707  
TEL (714) 751-7373  
FAX (714) 545-8883

*M. Salcedo*  
12/22/23  
MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

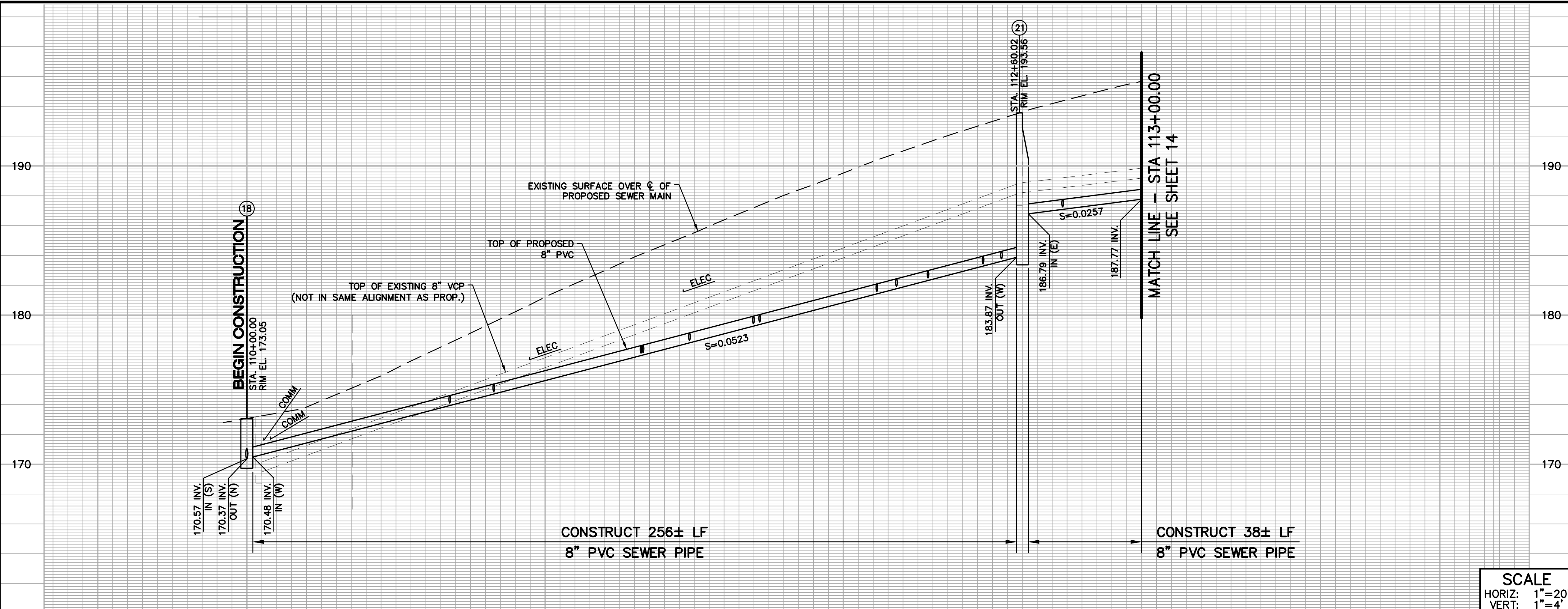
REMOVE & REPLACE - 7/14

FILE NUMBER  
23-010

C-07

SHT. 12 OF 31

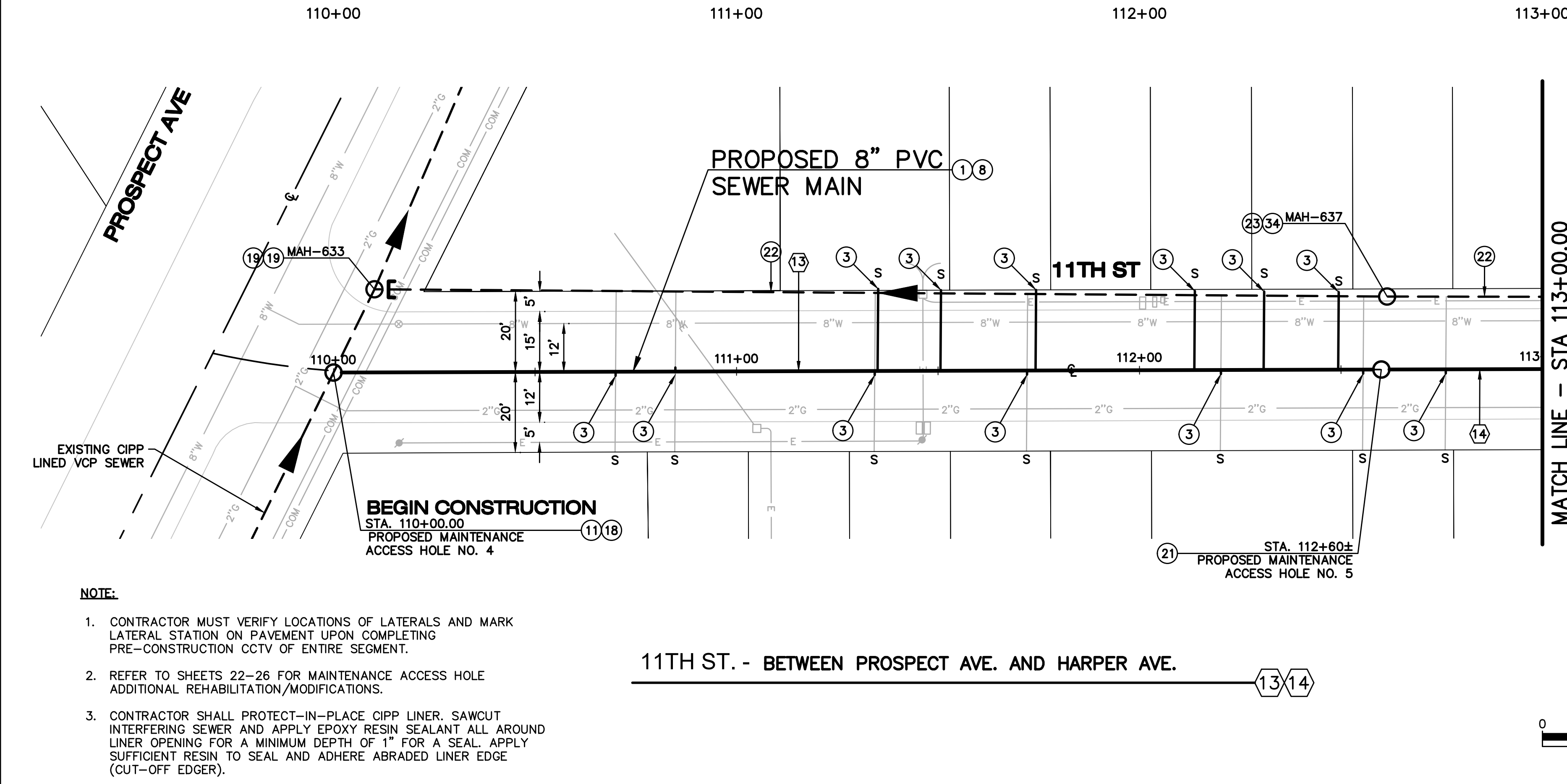
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**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑪ REMOVE INTERFERING PORTIONS AND RECONNECT TO EXISTING SEWER MAIN.
- ⑱ CONSTRUCT 48" I.D. CONCENTRIC PRECAST REINFORCED CONCRETE SHALLOW MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 201-3, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ⑲ CONSTRUCT 8" THICK BRICK AND MORTAR BULKHEAD (AT MAINTENANCE ACCESS HOLE WALL AND CHANNEL CONNECTION) FILL CHANNEL WITH SAND AND CAP WITH 2" MORTAR, LOCATION AS SHOWN IN PLANS.
- ⑳ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE DROP MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 202-2, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ㉓ ABANDON-IN-PLACE EXISTING SEWER MAIN, FILL WITH ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR PLUG AS NECESSARY.
- ㉔ ABANDON-IN-PLACE EXISTING MAINTENANCE ACCESS HOLE. REMOVE A MINIMUM 3 FEET BELOW GRADE, INCLUDING FRAME AND COVER, AND SLURRY FILL REMAINING STRUCTURE.
- ㉕ REMOVE AND REPLACE RESIDENTIAL CONCRETE DRIVEWAY APPROACH PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 102.

**SCALE**  
 HORIZ: 1"=20'  
 VERT: 1"=4'



**SEWER LATERALS  
 PROP MAH-9 TO PROP MAH-8**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
110+69	6" TFW	174.1±	CONNECT EX. VCP LATERAL
110+84	6" TFW	174.9±	CONNECT EX. VCP LATERAL
111+33	6" TFW	177.4±	CONNECT EX. VCP LATERAL
111+34	6" TFW	177.5±	CONNECT EX. VCP LATERAL
111+50	6" TFW	178.3±	CONNECT EX. VCP LATERAL
111+71	6" TFW	179.4±	CONNECT EX. VCP LATERAL
111+73	6" TFW	179.5±	CONNECT EX. VCP LATERAL
112+13	6" TFW	181.6±	CONNECT EX. VCP LATERAL
112+19	6" TFW	181.9±	CONNECT EX. VCP LATERAL
112+30	6" TFW	182.5±	CONNECT EX. VCP LATERAL
112+48	6" TFW	183.4±	CONNECT EX. VCP LATERAL
112+55	6" TFW	183.7±	CONNECT EX. VCP LATERAL

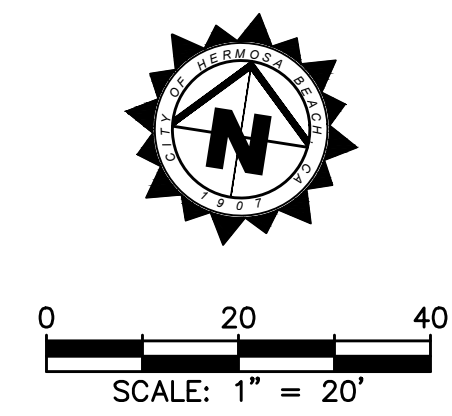
**SEWER LATERALS  
 PROP MAH-10 TO PROP MAH-9**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
112+75	6" TFW	187.1±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

- NOTE:**
- CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.
  - CONTRACTOR SHALL PROTECT-IN-PLACE CIPP LINER. SAWCUT INTERFERING SEWER AND APPLY EPOXY RESIN SEALANT ALL AROUND LINER OPENING FOR A MINIMUM DEPTH OF 1" FOR A SEAL. APPLY SUFFICIENT RESIN TO SEAL AND ADHERE ABRADED LINER EDGE (CUT-OFF EDGER).

11TH ST. - BETWEEN PROSPECT AVE. AND HARPER AVE.



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
 5 HUTTON CENTRE DRIVE, SUITE 300  
 SANTA ANA, CA 92707  
 TEL (714) 751-7373  
 FAX (714) 545-8883

*M. Salcedo*  
 MAIRA SALCEDO, P.E., RCE 77370  
 DATE 12/22/23

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24 DATE

CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

REMOVE & REPLACE - 8/14

FILE NUMBER  
 23-010

**C-08**

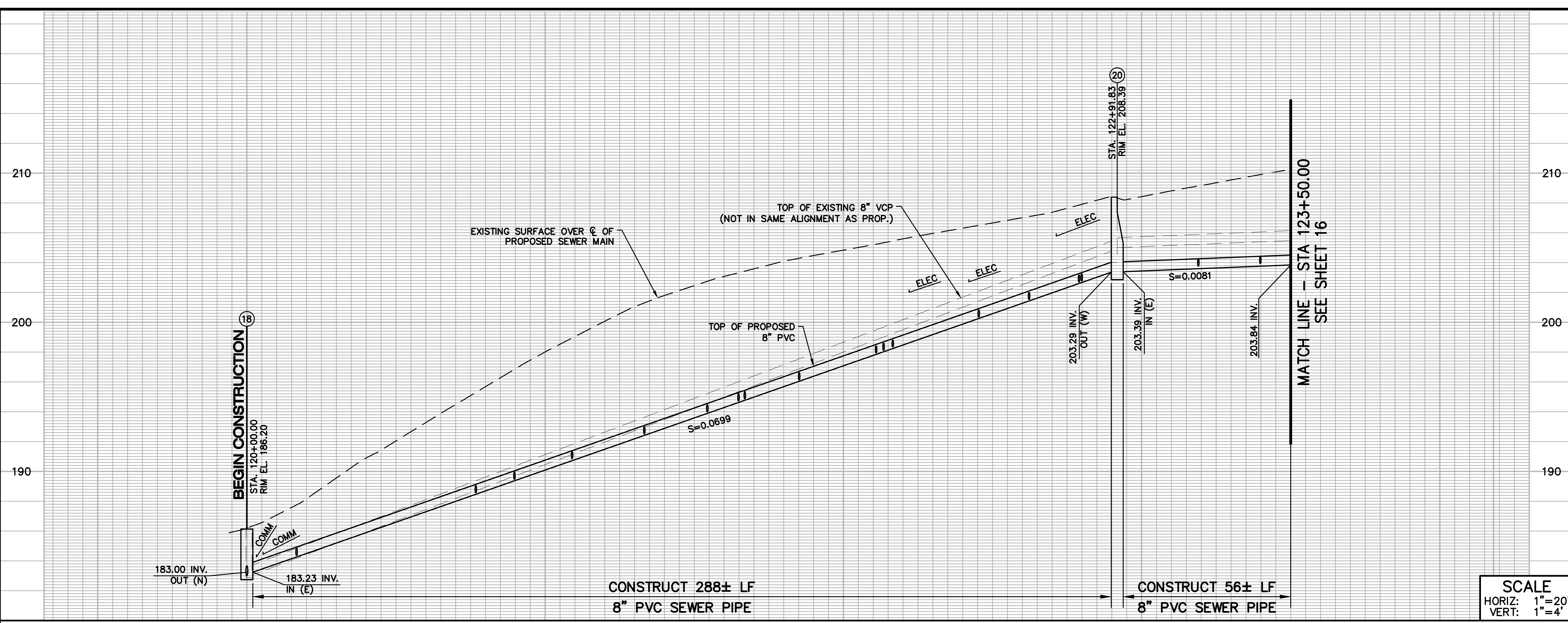
SHT. 13 OF 31

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### CONSTRUCTION NOTES

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034), TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑪ REMOVE INTERFERING PORTIONS AND RECONNECT TO EXISTING SEWER MAIN.
- ⑱ CONSTRUCT 48" I.D. CONCENTRIC PRECAST REINFORCED CONCRETE SHALLOW MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 201-3, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ⑳ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ㉒ ABANDON-IN-PLACE EXISTING SEWER MAIN, FILL ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR AS NECESSARY.
- ㉓ ABANDON-IN-PLACE EXISTING MAINTENANCE ACCESS HOLE, REMOVE A MINIMUM 3 FEET BELOW GRADE, INCLUDING FRAME AND COVER, AND SLURRY FILL REMAINING STRUCTURE.
- ㉔ REMOVE MAINTENANCE ACCESS HOLE INCLUDING THE BASE, PLUG INLET(S) AND OUTLET, LOCATION AS SHOWN IN PLANS.
- ㉓ REMOVE AND REPLACE CONCRETE SIDEWALK TO NEAREST JOINT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 116.



SCALE  
HORIZ: 1"=20'  
VERT: 1"=4'

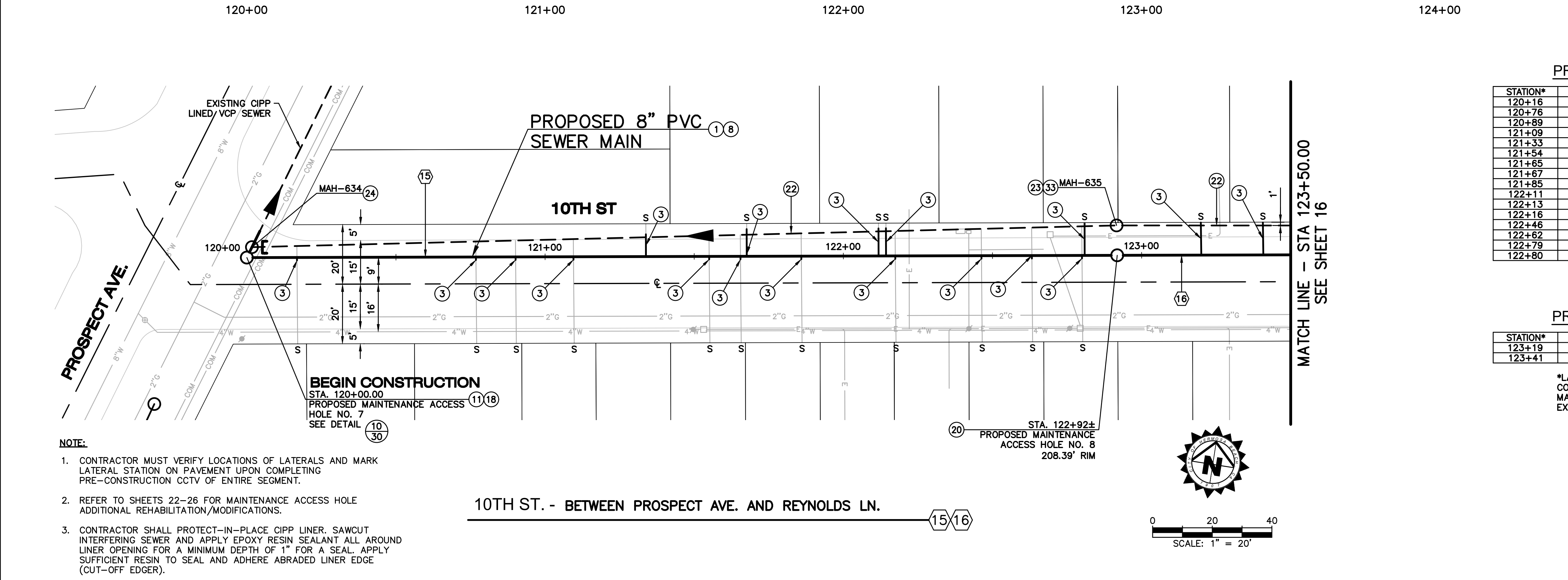
#### SEWER LATERALS PROP MAH-12 TO PROP MAH-11

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
120+16	6" TFW	184.2±	CONNECT EX. VCP LATERAL
120+76	6" TFW	188.4±	CONNECT EX. VCP LATERAL
120+89	6" TFW	189.3±	CONNECT EX. VCP LATERAL
121+09	6" TFW	190.7±	CONNECT EX. VCP LATERAL
121+33	6" TFW	192.4±	CONNECT EX. VCP LATERAL
121+54	6" TFW	193.9±	CONNECT EX. VCP LATERAL
121+65	6" TFW	194.6±	CONNECT EX. VCP LATERAL
121+67	6" TFW	194.8±	CONNECT EX. VCP LATERAL
121+85	6" TFW	196.0±	CONNECT EX. VCP LATERAL
122+11	6" TFW	197.8±	CONNECT EX. VCP LATERAL
122+13	6" TFW	198.0±	CONNECT EX. VCP LATERAL
122+16	6" TFW	198.2±	CONNECT EX. VCP LATERAL
122+46	6" TFW	200.3±	CONNECT EX. VCP LATERAL
122+62	6" TFW	201.4±	CONNECT EX. VCP LATERAL
122+79	6" TFW	202.6±	CONNECT EX. VCP LATERAL
122+80	6" TFW	202.7±	CONNECT EX. VCP LATERAL

#### SEWER LATERALS PROP MAH-13 TO PROP MAH-12

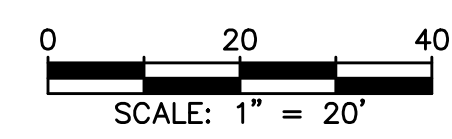
STATION*	LATERAL SIZE	INVERT	DESCRIPTION
123+19	6" TFW	203.6±	CONNECT EX. VCP LATERAL
123+41	6" TFW	203.8±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.



- NOTE:**
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  - CONTRACTOR SHALL PROTECT-IN-PLACE CIPP LINER, SAWCUT INTERFERING SEWER AND APPLY EPOXY RESIN SEALANT ALL AROUND LINER OPENING FOR A MINIMUM DEPTH OF 1" FOR A SEAL. APPLY SUFFICIENT RESIN TO SEAL AND ADHERE ABRASSED LINER EDGE (CUT-OFF EDGER).

10TH ST. - BETWEEN PROSPECT AVE. AND REYNOLDS LN.



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
SANTA ANA, CA 92707  
TEL (714) 751-7373  
FAX (714) 545-8883

*M. Salcedo*  
Maira Salcedo, P.E., RCE 77370  
DATE: 12/22/23

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

DATE: 5-15-24

CIP 421  
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REMOVE & REPLACE - 10/14

FILE NUMBER  
23-010

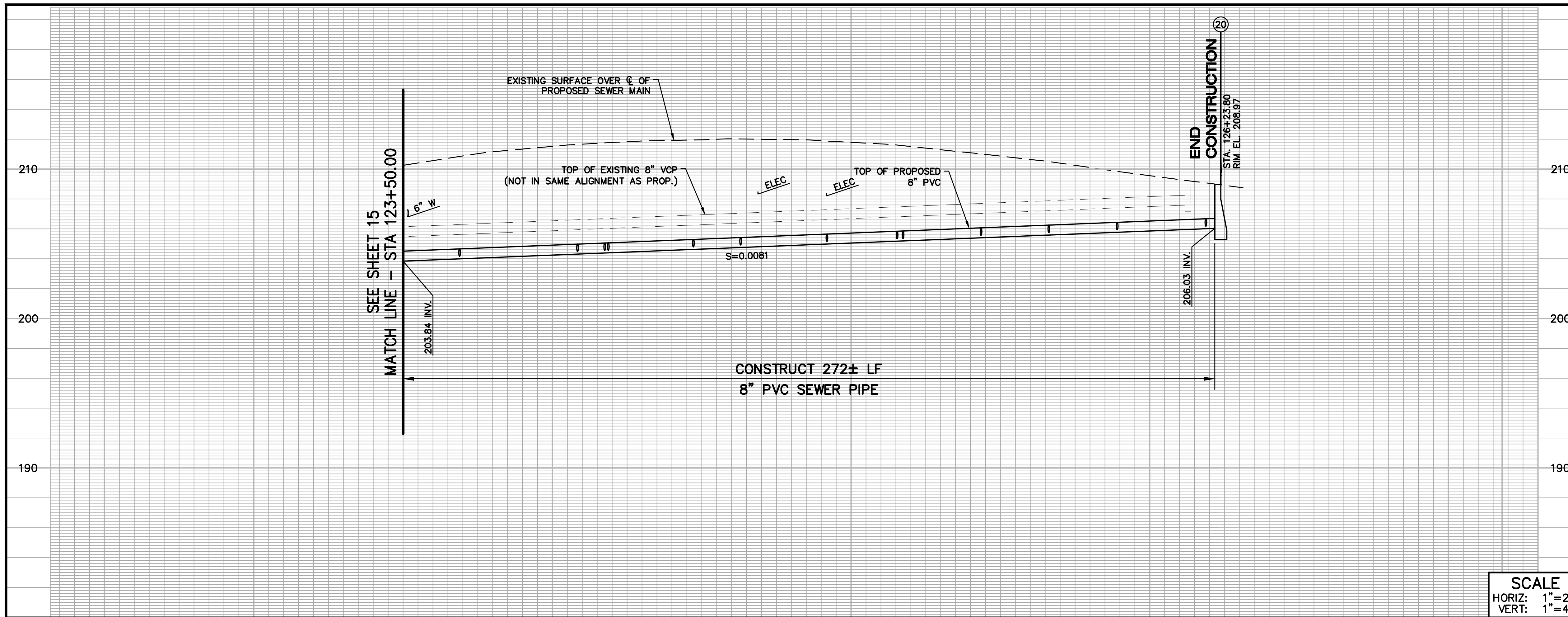
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SHT. 15 OF 31

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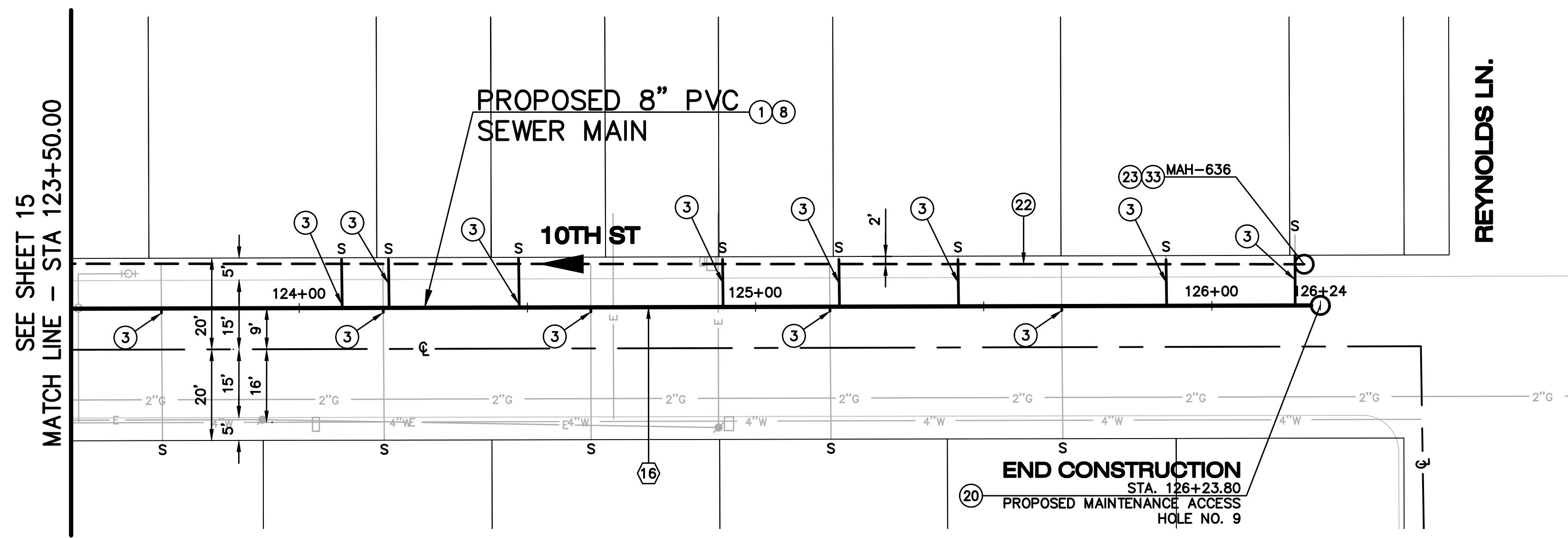
**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24" ± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑳ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER STANDARD SPECIFICATION 33 01 38.
- ②② ABANDON-IN-PLACE EXISTING SEWER MAIN, FILL WITH ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR PLUG AS NECESSARY.
- ②③ ABANDON-IN-PLACE EXISTING MAINTENANCE ACCESS HOLE, REMOVE A MINIMUM 3 FEET BELOW GRADE, INCLUDING FRAME AND COVER, AND SLURRY FILL REMAINING STRUCTURE.
- ③③ REMOVE AND REPLACE CONCRETE SIDEWALK TO NEAREST JOINT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 116.



**SCALE**  
 HORIZ: 1"=20'  
 VERT: 1"=4'

123+00    124+00    125+00    126+00    127+00



**SEWER LATERALS**  
 PROP MAH-13 TO PROP MAH-12

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
123+70	6" TFW	204.0±	CONNECT EX. VCP LATERAL
124+09	6" TFW	204.3±	CONNECT EX. VCP LATERAL
124+18	6" TFW	204.4±	CONNECT EX. VCP LATERAL
124+20	6" TFW	204.4±	CONNECT EX. VCP LATERAL
124+48	6" TFW	204.6±	CONNECT EX. VCP LATERAL
124+64	6" TFW	204.8±	CONNECT EX. VCP LATERAL
124+93	6" TFW	205.0±	CONNECT EX. VCP LATERAL
125+16	6" TFW	205.2±	CONNECT EX. VCP LATERAL
125+18	6" TFW	205.2±	CONNECT EX. VCP LATERAL
125+44	6" TFW	205.4±	CONNECT EX. VCP LATERAL
125+67	6" TFW	205.6±	CONNECT EX. VCP LATERAL
125+90	6" TFW	205.8±	CONNECT EX. VCP LATERAL
126+18	6" TFW	206.0±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

**NOTE:**

- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.

10TH ST. - BETWEEN PROSPECT AVE. AND REYNOLDS LN.



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:



**PSOMAS**  
 5 HUTTON CENTRE DRIVE, SUITE 300  
 SANTA ANA, CA 92707  
 TEL (714) 751-7373  
 FAX (714) 545-8883

*M. Salcedo*  
 MAIRA SALCEDO, P.E., RCE 77370

12/22/23  
 DATE

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*

5-15-24  
 DATE

CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

REMOVE & REPLACE - 11/14

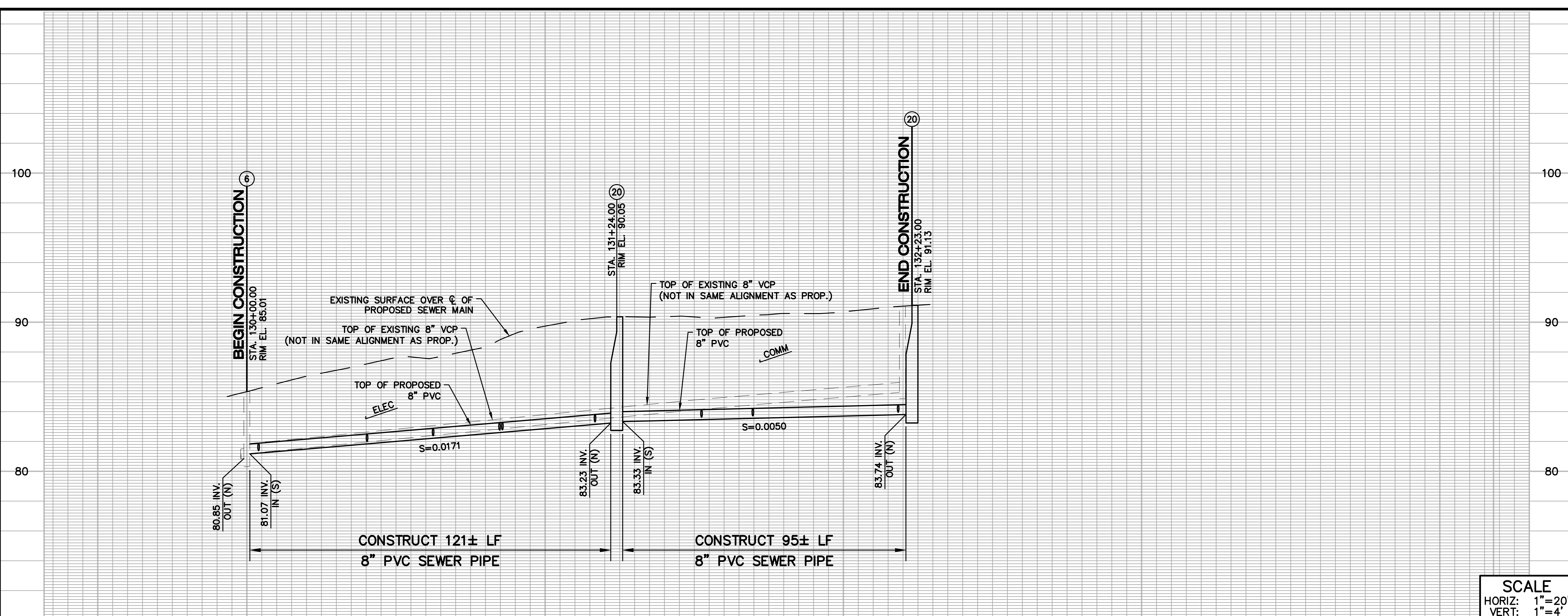
FILE NUMBER  
 23-010

C-11

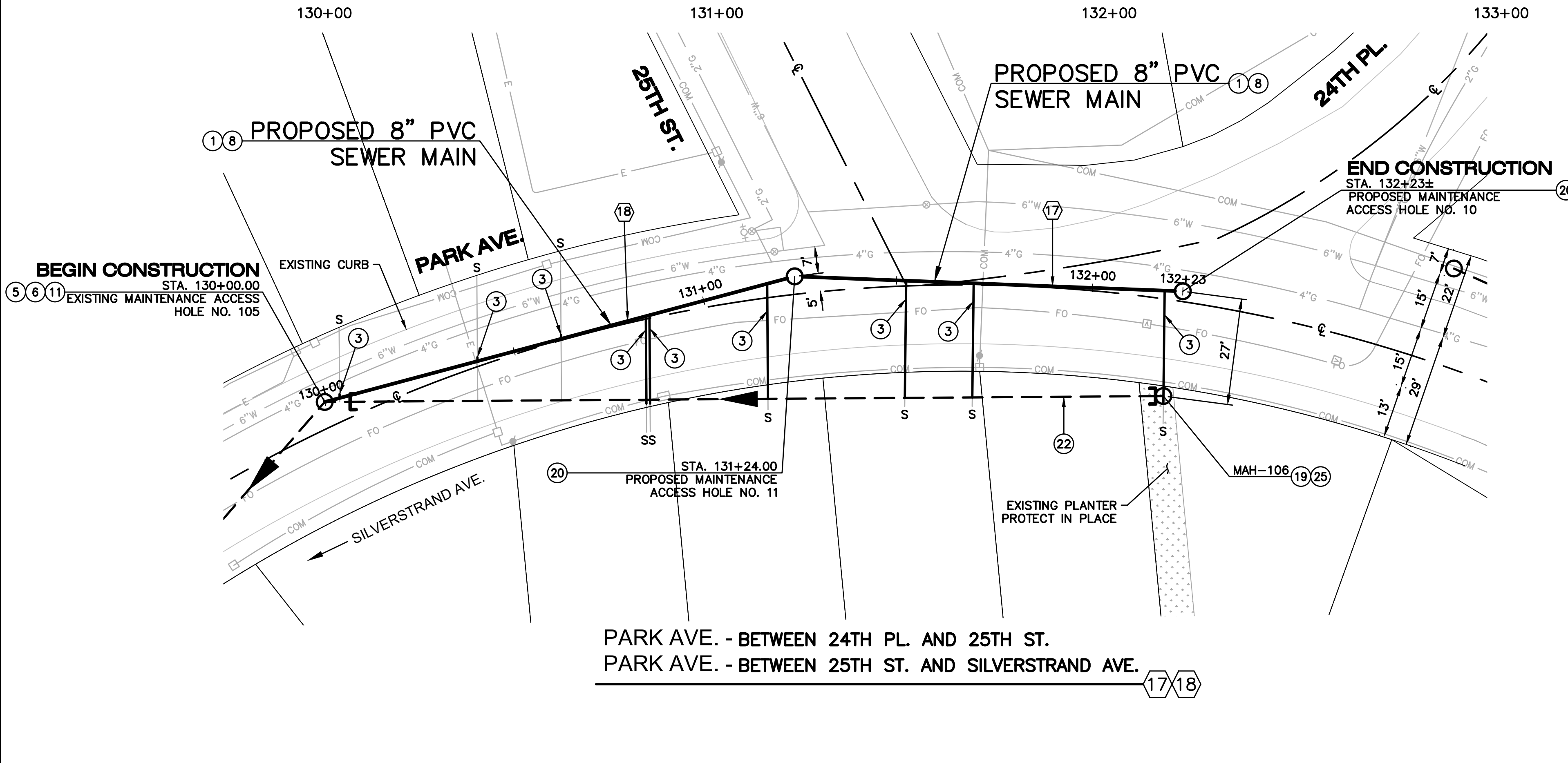


### CONSTRUCTION NOTES

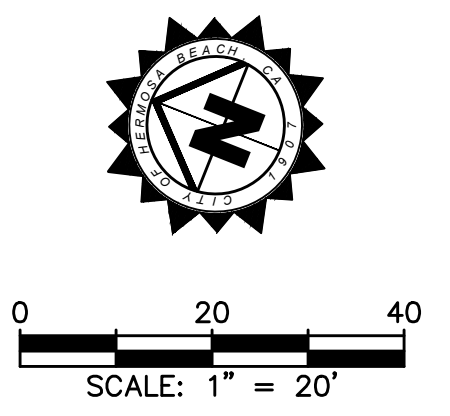
- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ⑤ PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- ⑥ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑪ REMOVE INTERFERING PORTIONS AND RECONNECT TO EXISTING SEWER MAIN.
- ⑲ CONSTRUCT 8" THICK BRICK AND MORTAR BULKHEAD (AT MAINTENANCE ACCESS HOLE WALL AND CHANNEL CONNECTION) FILL CHANNEL WITH SAND AND CAP WITH 2" MORTAR, LOCATION AS SHOWN IN PLANS.
- ⑳ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ㉒ ABANDON-IN-PLACE EXISTING SEWER MAIN. FILL WITH ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR PLUG AS NECESSARY.
- ㉓ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND CONNECT TO EXISTING LATERAL USING A BAND SEAL PER SPPWC STANDARD PLAN NO. 208-3. MODIFY MAINTENANCE ACCESS HOLE BASE TO ACCOMMODATE SEWER LATERAL.



SCALE  
HORIZ: 1"=20'  
VERT: 1"=4'



**CAUTION!**  
OVERHEAD POWER LINES



#### SEWER LATERALS PROP MAH-15 TO MAH-105

STATION#	LATERAL SIZE	INVERT	DESCRIPTION
130+04	6" TFW	81.2±	CONNECT EX. VCP LATERAL
130+40	6" TFW	81.9±	CONNECT EX. VCP LATERAL
130+62	6" TFW	82.2±	CONNECT EX. VCP LATERAL
130+85	6" TFW	82.6±	CONNECT EX. VCP LATERAL
130+86	6" TFW	82.6±	CONNECT EX. VCP LATERAL
131+17	6" TFW	83.2±	CONNECT EX. VCP LATERAL

#### SEWER LATERALS PROP MAH-14 TO PROP MAH-15

STATION#	LATERAL SIZE	INVERT	DESCRIPTION
131+52	6" TFW	83.5±	CONNECT EX. VCP LATERAL
131+70	6" TFW	83.6±	CONNECT EX. VCP LATERAL
132+18	6" TFW	83.6±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

- NOTE:**
- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - 2. REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
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TEL (714) 751-7373  
FAX (714) 545-8883

*M. Salcedo*  
MIRA SALCEDO, P.E., RCE 77370 DATE 12/22/23

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

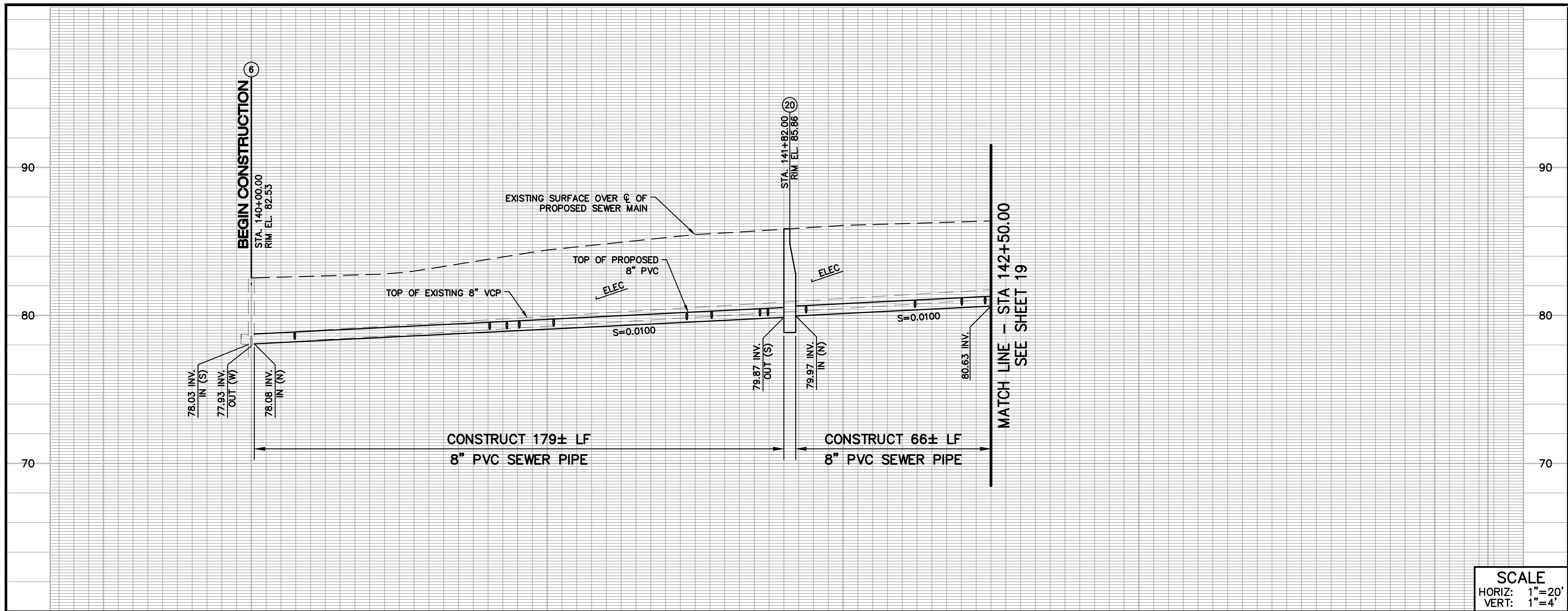
REMOVE & REPLACE - 12/14

FILE NUMBER  
23-010

C-12

SHT. 17 OF 31

M:\2\HERO30503\WATERS\TASKS\FINAL DESIGN\SHEETS\C-12-RR-PROF.dwg 12/22/23 - 10:08am ben.halbach



**SCALE**  
 HORIZ: 1"=20'  
 VERT: 1"=4'

**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24"± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑤ PROTECT IN PLACE EXISTING SANITARY SEWER MAINTENANCE ACCESS HOLE.
- ⑥ BREAK-INTO EXISTING MAINTENANCE ACCESS HOLE AND RECHANNEL AS NECESSARY, PER SPPWC STANDARD PLAN NO. 208-3.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ⑪ REMOVE INTERFERING PORTIONS AND RECONNECT TO EXISTING SEWER MAIN.
- ⑳ CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38.
- ㉔ ABANDON-IN-PLACE EXISTING SEWER MAIN, FILL WITH ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR PLUG AS NECESSARY.

**SEWER LATERALS  
 MAH-123 TO PROP MAH-16**

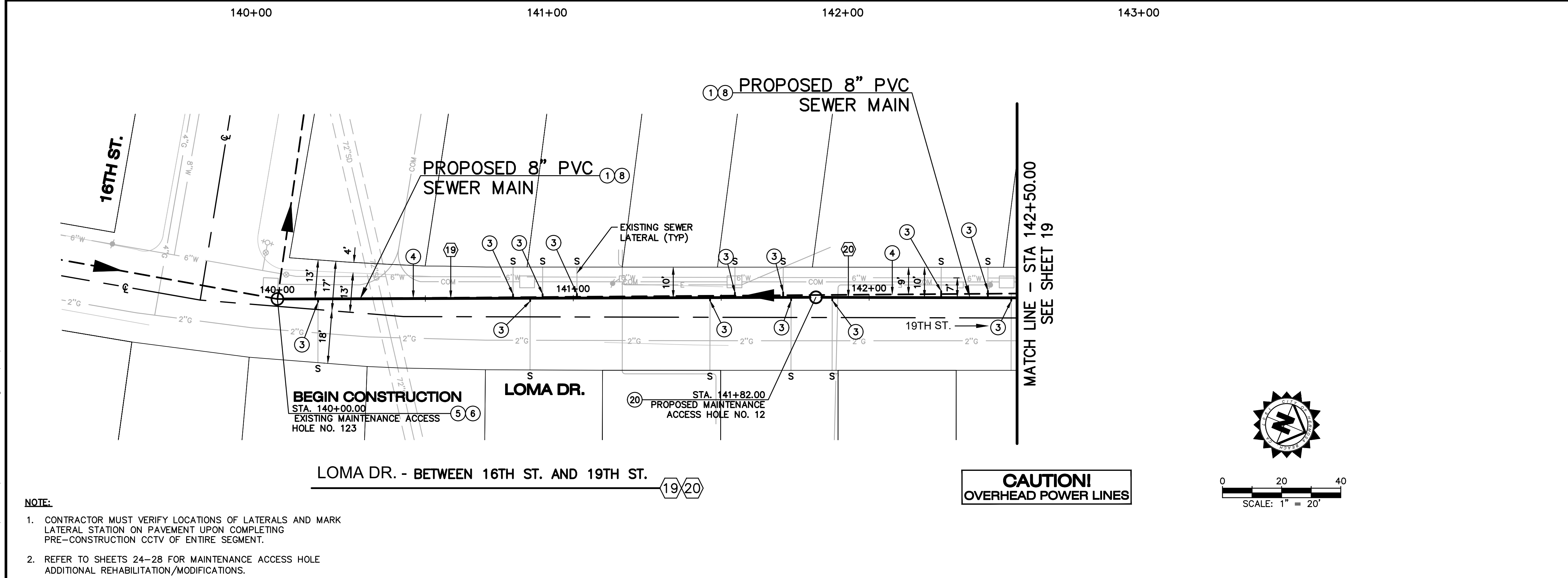
STATION*	LATERAL SIZE	INVERT	DESCRIPTION
140+14	6" TFW	78.2±	CONNECT EX. VCP LATERAL
140+80	6" TFW	78.9±	CONNECT EX. VCP LATERAL
140+85	6" TFW	78.9±	CONNECT EX. VCP LATERAL
140+90	6" TFW	79.0±	CONNECT EX. VCP LATERAL
141+01	6" TFW	79.1±	CONNECT EX. VCP LATERAL
141+46	6" TFW	79.5±	CONNECT EX. VCP LATERAL
141+55	6" TFW	79.6±	CONNECT EX. VCP LATERAL
141+71	6" TFW	79.8±	CONNECT EX. VCP LATERAL
141+74	6" TFW	79.8±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

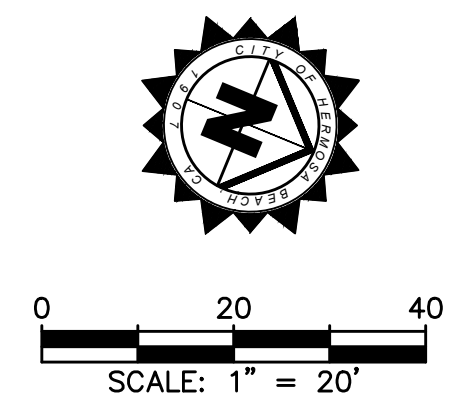
**SEWER LATERALS  
 PROP MAH-16 TO PROP MAH-17**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
141+88	6" TFW	80.0±	CONNECT EX. VCP LATERAL
142+24	6" TFW	80.4±	CONNECT EX. VCP LATERAL
142+40	6" TFW	80.5±	CONNECT EX. VCP LATERAL
142+48	6" TFW	80.5±	CONNECT EX. VCP LATERAL

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**CAUTION!**  
 OVERHEAD POWER LINES



- NOTE:**
- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - 2. REFER TO SHEETS 24-28 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
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 FAX (714) 545-8883

*M. Salcedo*  
 MAIRA SALCEDO, P.E., RCE 77370  
 DATE 12/22/23

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

DATE 5-15-24

CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

REMOVE & REPLACE - 13/14

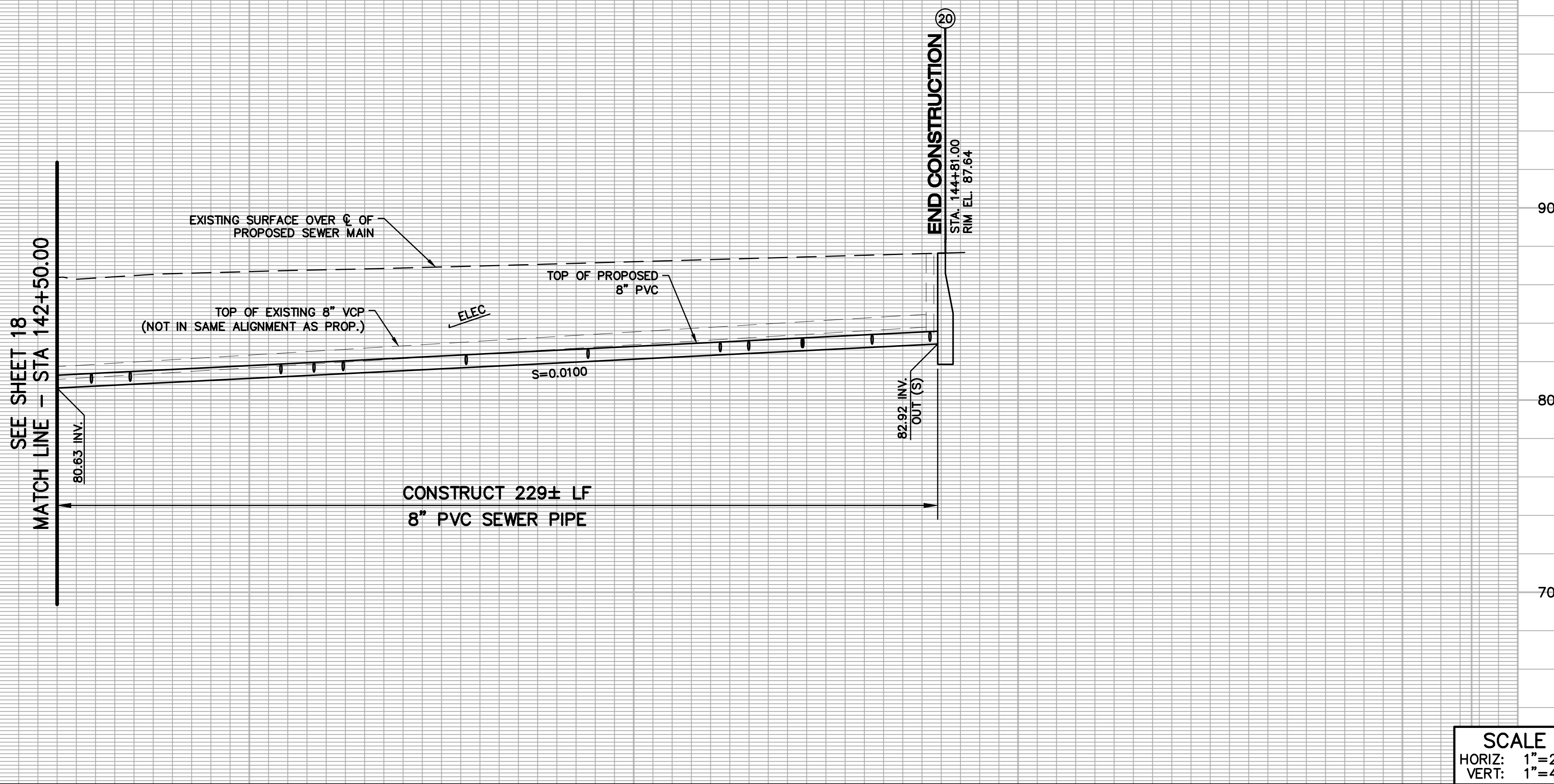
FILE NUMBER  
 23-010

**C-13**

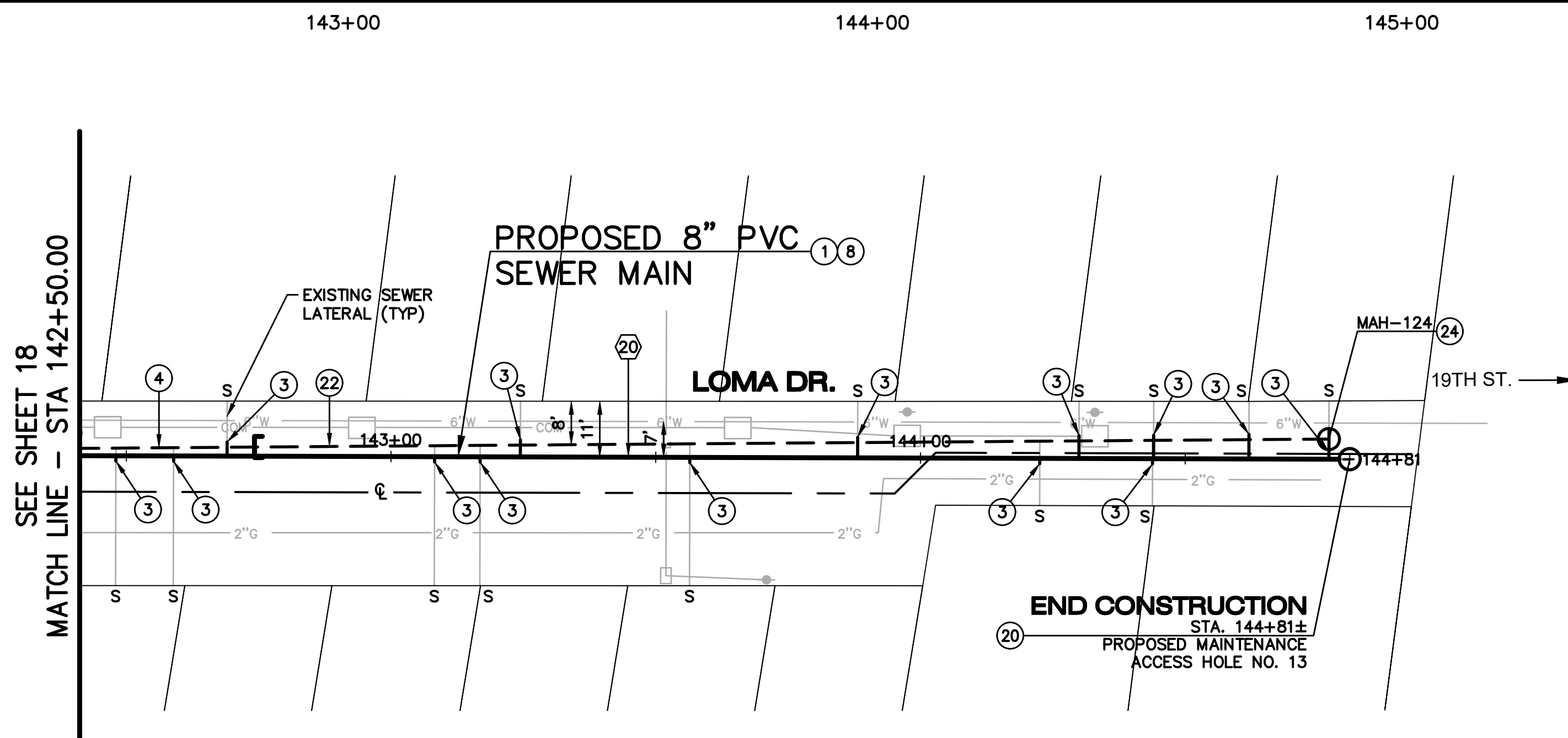
SHT. 18 OF 31

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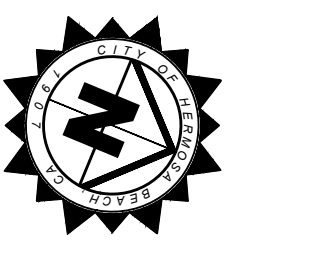
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SCALE  
HORIZ: 1"=20'  
VERT: 1"=4'



**CAUTION!  
OVERHEAD POWER LINES**



0 20 40  
SCALE: 1" = 20'

**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" SDR-35 PVC SEWER WITH RUBBER RING JOINTS (ASTM D3034). TRENCHING, PIPE BACKFILL AND BEDDING PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117. BEDDING SHALL EXTEND 6" BELOW BOP AND CONSIST OF 3/4" MAX CRUSHED ROCK. TRENCH WIDTH=24" ± MIN.
- ③ CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER SPPWC STANDARD PLANS NO. 222-2 AND 223-3 AND REMOVE INTERFERING PORTIONS OF EXISTING PIPE.
- ④ REMOVE AND DISPOSE OF EXISTING VCP SEWER.
- ⑧ REMOVE AND REPLACE ASPHALT PAVEMENT PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 117.
- ②① CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38..
- ②② ABANDON-IN-PLACE EXISTING SEWER MAIN, FILL WITH ONE-SACK SLURRY, AND CONSTRUCT WATERTIGHT BRICK AND MORTAR PLUG AS NECESSARY.
- ②④ REMOVE MAINTENANCE ACCESS HOLE INCLUDING THE BASE, PLUG INLET(S) AND OUTLET, LOCATION AS SHOWN IN PLANS.

**SEWER LATERALS  
PROP MAH-16 TO PROP MAH-17**

STATION*	LATERAL SIZE	INVERT	DESCRIPTION
142+57	6" TFW	80.7±	CONNECT EX. VCP LATERAL
142+68	6" TFW	80.8±	CONNECT EX. VCP LATERAL
142+78	6" TFW	80.9±	CONNECT EX. VCP LATERAL
143+17	6" TFW	81.3±	CONNECT EX. VCP LATERAL
143+26	6" TFW	81.4±	CONNECT EX. VCP LATERAL
143+33	6" TFW	81.5±	CONNECT EX. VCP LATERAL
143+65	6" TFW	81.8±	CONNECT EX. VCP LATERAL
143+97	6" TFW	82.1±	CONNECT EX. VCP LATERAL
144+31	6" TFW	82.4±	CONNECT EX. VCP LATERAL
144+39	6" TFW	82.5±	CONNECT EX. VCP LATERAL
144+53	6" TFW	82.7±	CONNECT EX. VCP LATERAL
144+53	6" TFW	82.7±	CONNECT EX. VCP LATERAL
144+77	6" TFW	82.9±	CONNECT EX. VCP LATERAL

\*LATERAL STATION AND INVERT ARE APPROXIMATE. CONTRACTOR MUST TAKE EXTRA PRECAUTION AND MARK LATERAL STATION ON PAVEMENT WHEN EXCAVATING.

**NOTE:**  
1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
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*M. Salcedo*  
MAIRA SALCEDO, P.E., RCE 77370  
12/22/23 DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

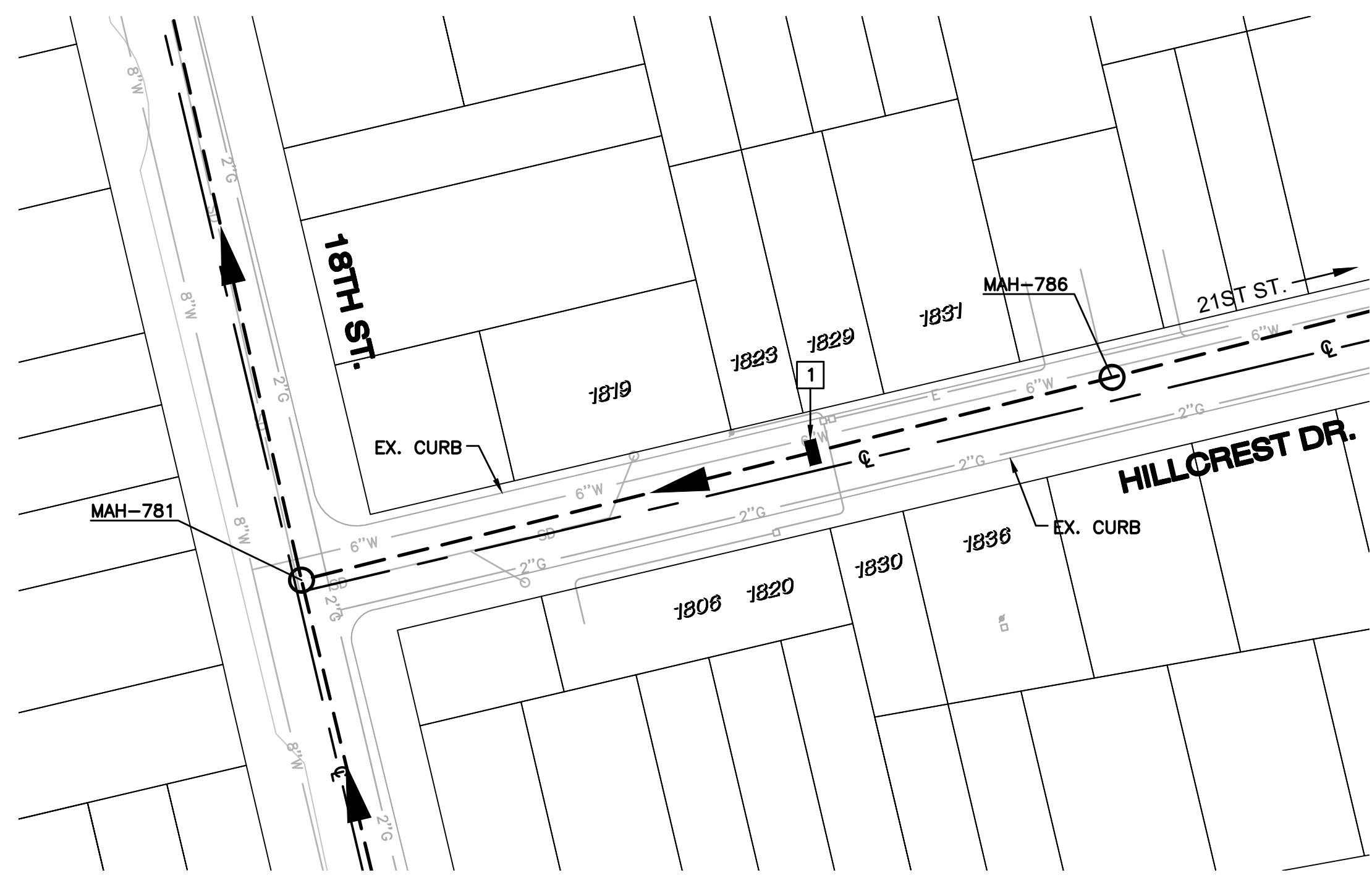
RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24 DATE

CIP 421  
**ANNUAL SEWER IMPROVEMENTS PHASE 2**

**REMOVE & REPLACE - 14/14** C-14

FILE NUMBER 23-010  
SHT. 19 OF 31

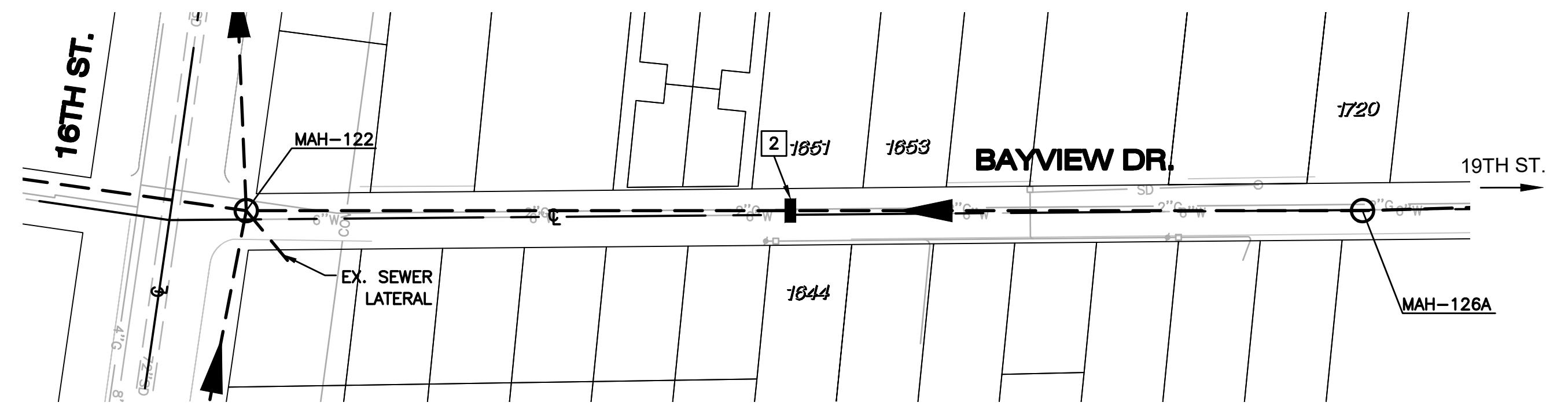


HILLCREST DR. - BETWEEN 18TH ST. AND 21ST ST. 1

RECONSTRUCTION SCHEDULE - 8" SDR-35 PVC  
FROM MAH-786 to MAH-781

	FROM	TO	LENGTH	HOUSE CONN.
1	99' D/S	105' D/S	6'	1 TAP FACTORY Y'S
	TOTAL			1 TAP FACTORY Y'S

- NOTE:**
- CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 24-28 FOR MAINTENANCE ACCESS HOLE REHABILITATION/MODIFICATIONS.

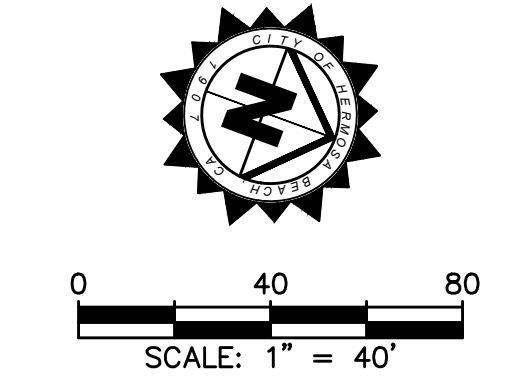


BAYVIEW DR. - BETWEEN 16TH ST. AND 19TH ST. 2

RECONSTRUCTION SCHEDULE - 6" SDR-35 PVC  
FROM MAH-126A to MAH-122

	FROM	TO	LENGTH	HOUSE CONN.
2	201' D/S	207' D/S	6'	1 TAP FACTORY Y'S
	TOTAL			1 TAP FACTORY Y'S

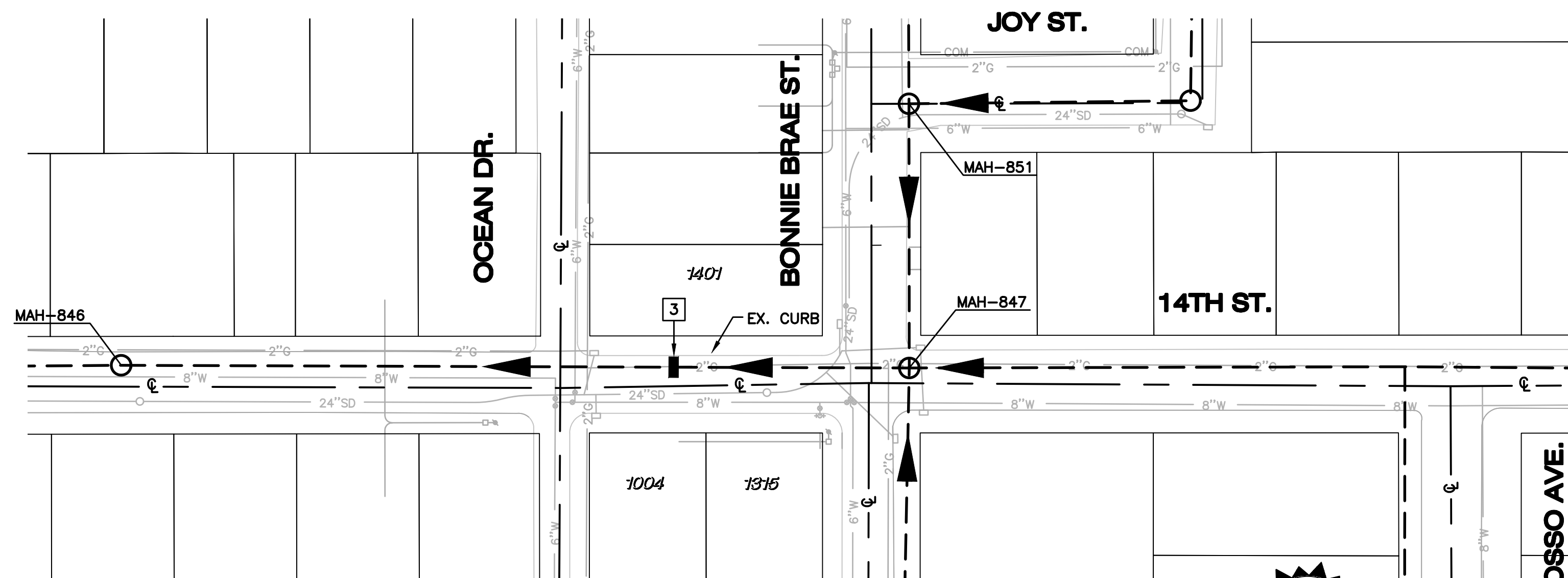
- NOTE:**
- CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 24-28 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.



**CAUTION!**  
OVERHEAD POWER LINES

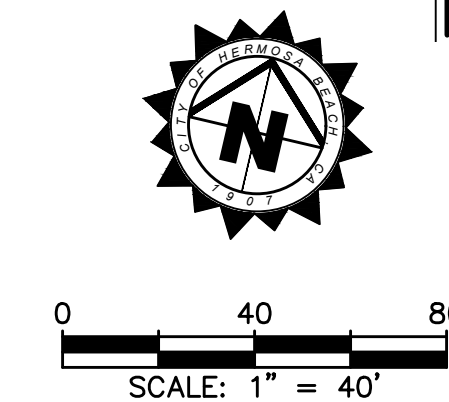
RECONSTRUCTION SCHEDULE - 8" SDR-35 PVC  
FROM MAH-847 to MAH-846

	FROM	TO	LENGTH	HOUSE CONN.
3	84' D/S	90' D/S	6'	1 TAP FACTORY Y'S
	TOTAL			1 TAP FACTORY Y'S



14TH ST. - BETWEEN OCEAN DR. AND BONNIE BRAE ST. 3

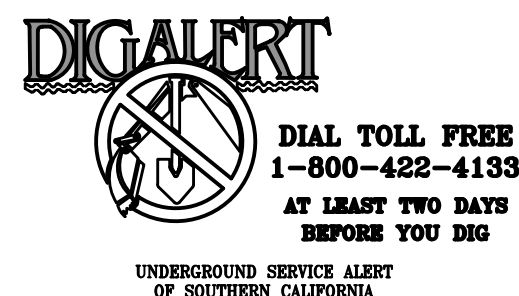
- NOTE:**
- SEE SHEET 12 FOR REMOVE AND REPLACE SEGMENT (11).
  - SEE SHEET 12 FOR REMOVE AND REPLACE SEGMENT (12).
  - CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.



**LEGEND**

- (1) POINT REPAIR (PIPE REPLACEMENT)
- (1) REMOVE AND REPLACE

**CAUTION!**  
OVERHEAD POWER LINES



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:



**PSOMAS**  
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*M. Salcedo*  
MAIRA SALCEDO, P.E., RCE 77370  
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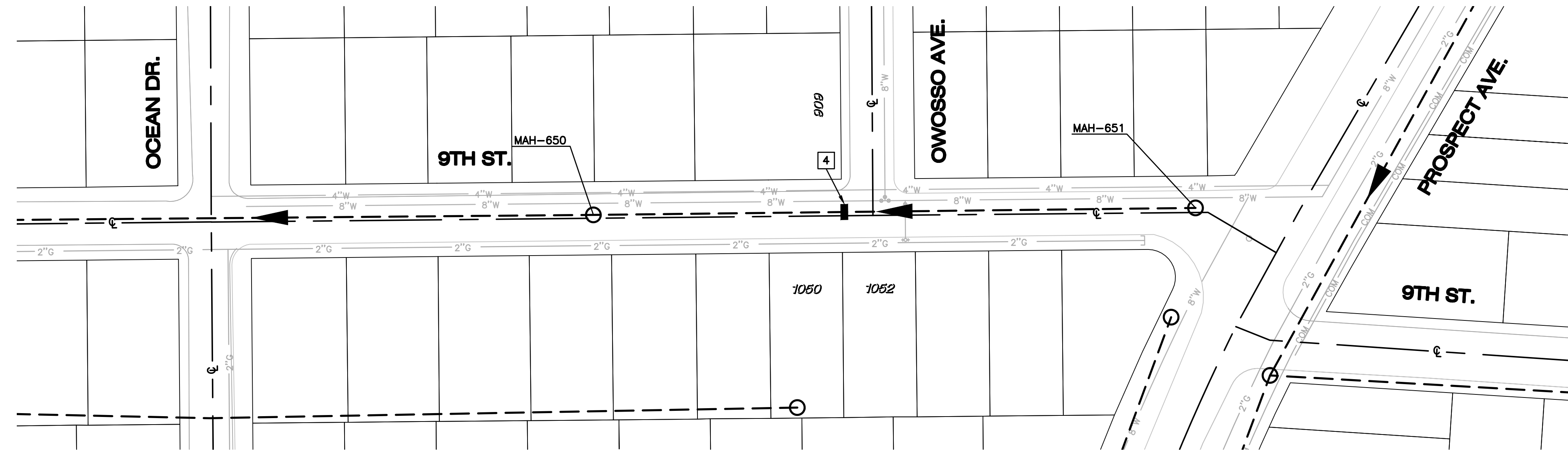
POINT REPAIR - 1/2

FILE NUMBER  
23-010

C-15

SHT. 20 OF 31

RECONSTRUCTION SCHEDULE - 8" SDR-35 PVC				
FROM MAH-651 to MAH-650				
	FROM	TO	LENGTH	HOUSE CONN.
4	187' D/S	193' D/S	6'	0 TAP FACTORY Y'S
	TOTAL		6'	0 TAP FACTORY Y'S

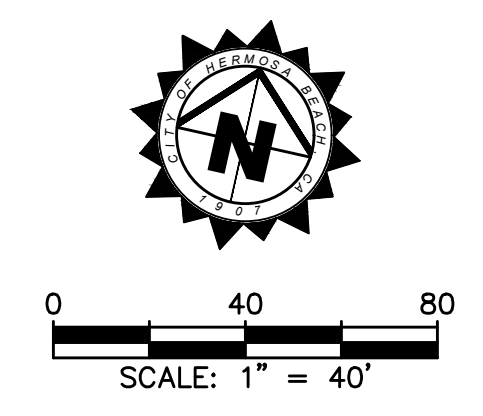


**LEGEND**

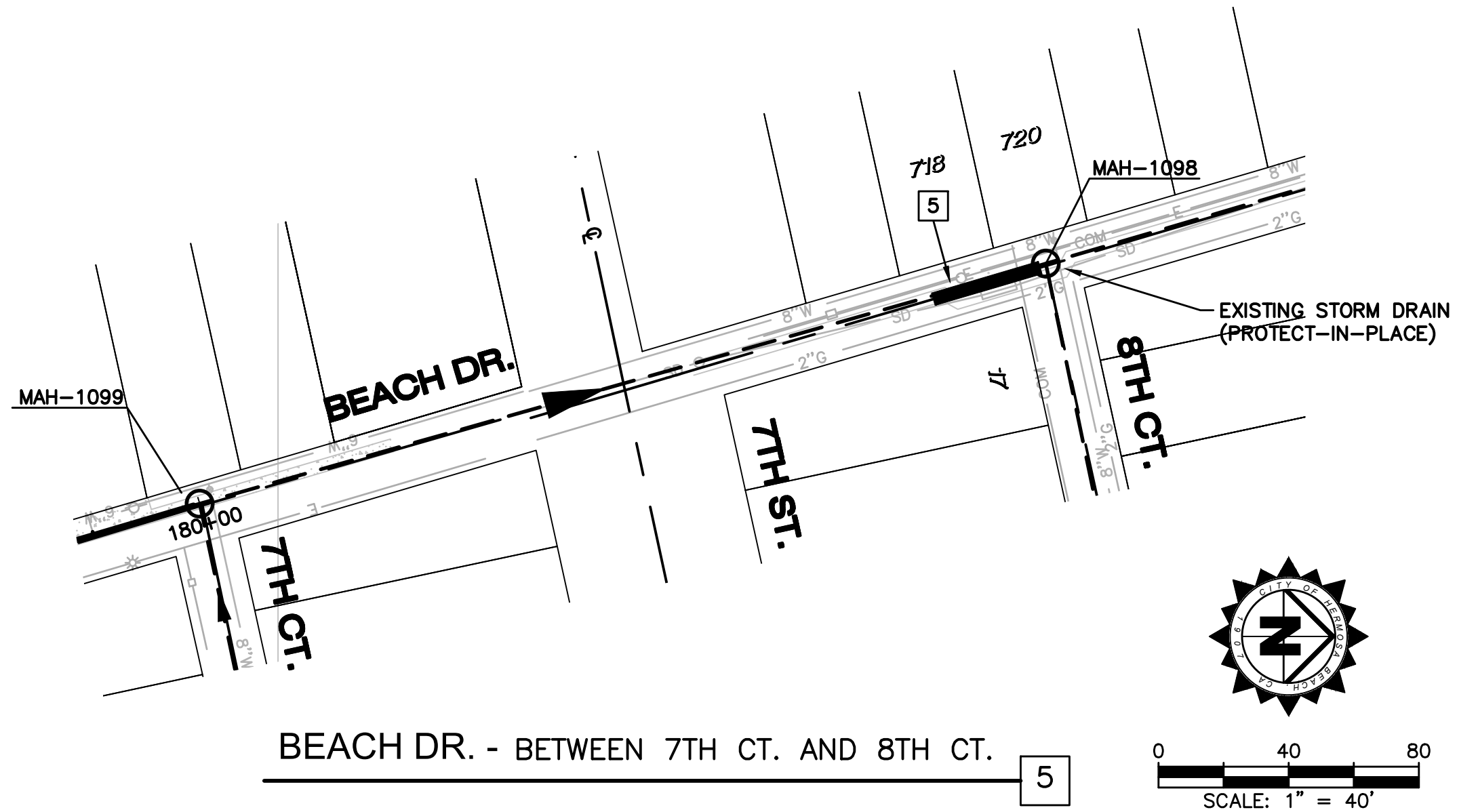
	POINT REPAIR (PIPE REPLACEMENT)
	REMOVE AND REPLACE

- NOTE:**
- CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.

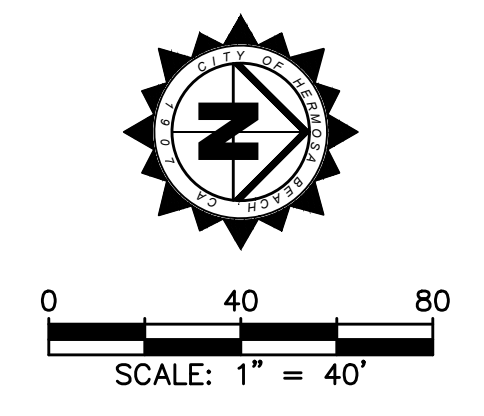
9TH ST. - BETWEEN OCEAN DR. AND PROSPECT AVE. 4



**CAUTION!**  
OVERHEAD POWER LINES



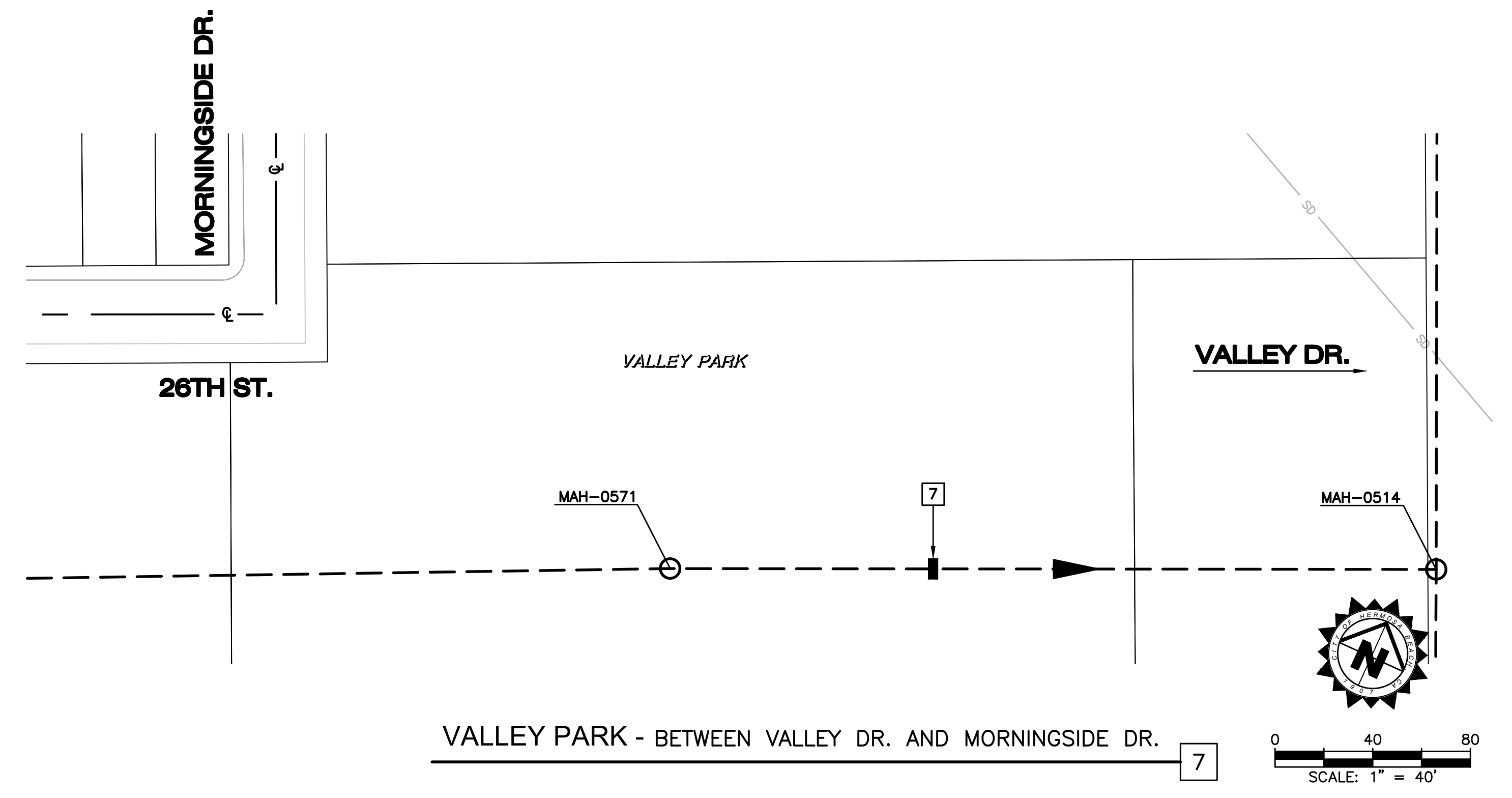
BEACH DR. - BETWEEN 7TH CT. AND 8TH CT. 5



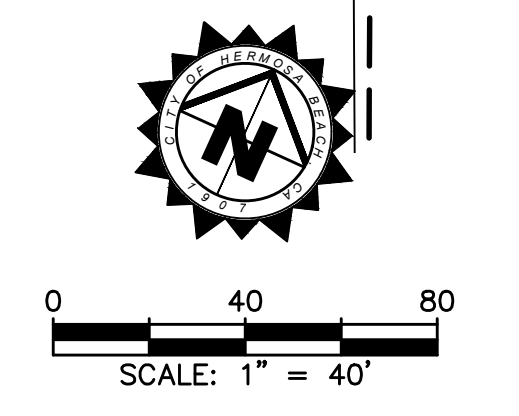
RECONSTRUCTION SCHEDULE - 8" SDR-35 PVC				
FROM MAH-1099 to MAH-1098				
	FROM	TO	LENGTH	HOUSE CONN.
5	239' D/S	275' D/S	36'	0 TAP FACTORY Y'S
	TOTAL		36'	0 TAP FACTORY Y'S

- NOTE:**
- CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.

**CAUTION!**  
OVERHEAD POWER LINES



VALLEY PARK - BETWEEN VALLEY DR. AND MORNINGSIDE DR. 7

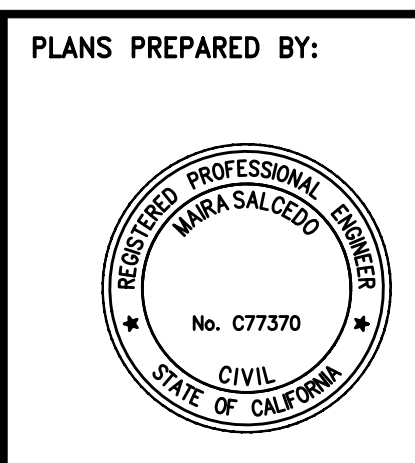


RECONSTRUCTION SCHEDULE - 8" SDR-35 PVC				
FROM MAH-571 to MAH-514				
	FROM	TO	LENGTH	HOUSE CONN.
7	105' D/S	111' D/S	6'	0 TAP FACTORY Y'S
	TOTAL		6'	0 TAP FACTORY Y'S

- NOTE:**
- CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
  - REFER TO SHEETS 22-26 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.



REVISIONS		
No.	DESCRIPTION	DATE



**PSOMAS**  
5 HUTTON CENTRE DRIVE, SUITE 300  
SANTA ANA, CA 92707  
TEL (714) 751-7373  
FAX (714) 545-8883

*M. Salcedo*  
12/22/23  
MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
5-15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

POINT REPAIR - 2/2

FILE NUMBER  
23-010

**C-16**

SHT. 21 OF 31

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### CONSTRUCTION NOTES

- 12 CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24
- 13 CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE DROP MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 202-2, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.
- 14 APPLY FULL DEPTH UTILITHANE SPRAY LINER (OR APPROVED EQUAL) FOR MAINTENANCE ACCESS HOLE REHABILITATION PER SPECIFICATION SECTION 33 01 38.
- 15 RECONSTRUCT MAINTENANCE ACCESS HOLE BENCH AND CHANNEL. CONTRACTOR TO VERIFY CORRECT FLOW DIRECTION.
- 16 REPLACE MAINTENANCE ACCESS HOLE FRAME AND COVER PER SPPWC STANDARD PLAN 210-4, USING CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER. RESTORE SURFACE CONDITIONS.
- 17 REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.

### MAH REPLACEMENT SCHEDULE

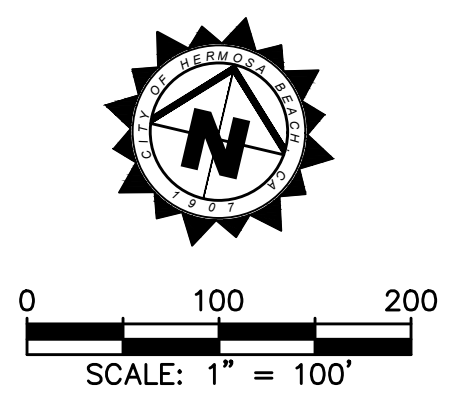
MAH NO.	AREA	DEPTH TO INVERT (FT.)	PAVEMENT	DETAIL
104	4	6.0	AC	DETAIL 5 ON SHEET 28
122	6	14.8	AC	DETAIL 7 ON SHEET 29
611	7	6.3	AC	DETAIL 12 ON SHEET 30
629	2	8.0	AC	DETAIL 3 ON SHEET 27
697	7	5.8	AC	DETAIL 13 ON SHEET 31
786	1	7.8	AC	DETAIL 1 ON SHEET 27
1044	6	8.0	CONC. (GUTTER)	DETAIL 9 ON SHEET 29
1071	6	5.9	AC	DETAIL 8 ON SHEET 29

### MAH REHABILITATION SCHEDULE

MAH NO.	AREA	DEPTH	PAVEMENT	MAH NO.	AREA	DEPTH	PAVEMENT
105	4	4.6	AC	813	2	4.3	CONC. (GUTTER)
123	6	4.6	AC	815	2	4.1	AC/CONC. (GUTTER)
123A	6	4.0	CONC. (SWLK)	816	2	4.2	CONC. (CROSS-GUTTER)
126	6	10.8	AC	817	2	5.1	AC
126A	6	9.3	AC	827	1	5.2	BRICK (SWLK)
134	6	5.6	AC	831	1	4.2	CONC.
142	2	3.1	AC	832	1	5.2	CONC. (DVWY)
143X	6	4.6	AC	833	1	8.0	GRASS
172	8	7.6	CONC. (SWLK)	836	2	6.0	PKWY (GRASS)
215	9	4.5	AC	837	2	5.4	GRASS (SWLK)
571	4	UNK	DIRT/GRASS	844	2	2.8	PKWY (DIRT)
619	2	4.5	AC/CONC. (GUTTER)	846	1	UNK	AC
620	2	4.0	AC/CONC. (GUTTER)	853	1	2.6	AC
621	2	3.4	AC/CONC. (GUTTER)	854	1	4.7	AC
631	2	UNK	CONC. (GUTTER)	1043	NA	7.9	AC
633	2	3.5	CONC. (SWLK)	1062	6	3.6	BRICK (SWLK)
637	2	5.0	DVWY (CONC.)	1067	3	9.4	AC
638	2	4.2	CONC. (SWLK)	1068	3	5.9	AC
650	2	3.7	AC	1068A	3	5.4	AC
651	2	2.7	CONC.	1069	3	5.7	AC
665	2	5.3	CONC. (DVWY)	1070A	3	4.3	AC
666	2	UNK	DIRT/GRASS	1096A	5	4.5	AC
667	2	6.1	AC	1097A	5	3.8	AC
668	2	5.1	AC	1098	5	2.2	AC
669	2	6.3	CONC. (DVWY)	1099	5	1.9	CONC. (GUTTER)
670	2	5.2	CONC. (SWLK)	1116	6	11.5	AC/CONC. (GUTTER)
677	2	5.4	CONC. (SWLK)	1117	6	11.1	AC (NEAR GUTTER)
678	2	UNK	CONC. (DVWY)	1119	6	11.0	AC
679	2	5.7	CONC. (SWLK)	1121	2	12.5	AC
680	2	4.8	SWLK (CONC.)	1152	4	10.4	AC
681	2	3.3	CONC. (SWLK)	1153	4	5.4	AC
691	7	7.5	AC	1155	3	6.4	AC
694	7	2.7	AC	1156	3	7.4	AC
781	1	UNK	AC				
793	1	4.8	AC				
800	1	3.1	AC				



AREA 1 - MAINTENANCE ACCESS HOLES



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REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

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*M. Salcedo*  
 12/22/23  
 MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

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*[Signature]*  
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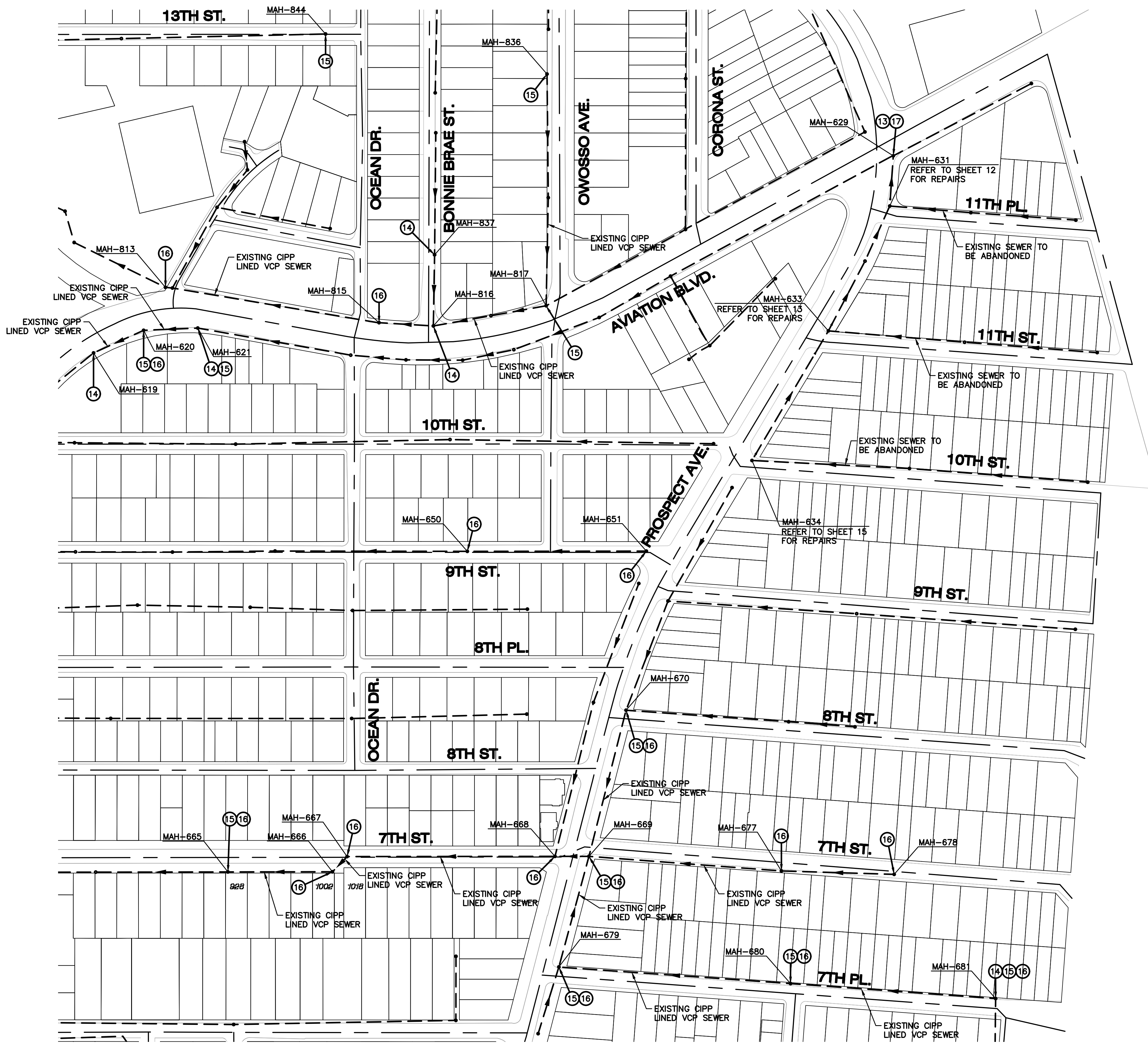
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MANHOLE REHABILITATION -  
 AREA 1

FILE NUMBER  
 23-010

C-17

SHT. 22 OF 31



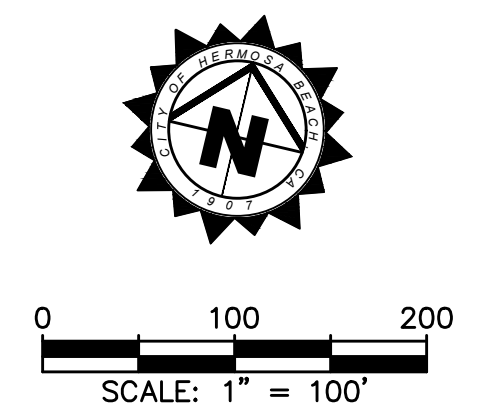
AREA 2 - MAINTENANCE ACCESS HOLES

**CONSTRUCTION NOTES**

- 12. CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.
- 13. CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE DROP MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 202-2, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.
- 14. APPLY FULL DEPTH POLYURETHANE SPRAY LINER (OR APPROVED EQUAL) FOR MAINTENANCE ACCESS HOLE REHABILITATION PER SPECIFICATION SECTION 33 01 38.
- 15. RECONSTRUCT MAINTENANCE ACCESS HOLE BENCH AND CHANNEL. CONTRACTOR TO VERIFY CORRECT FLOW DIRECTION.
- 16. REPLACE MAINTENANCE ACCESS HOLE FRAME AND COVER PER SPPWC STANDARD PLAN 210-4, USING CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER. RESTORE SURFACE CONDITIONS.
- 17. REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.

**NOTE:**

- 1. CONTRACTOR MUST VERIFY LOCATIONS OF LATERALS AND MARK LATERAL STATION ON PAVEMENT UPON COMPLETING PRE-CONSTRUCTION CCTV OF ENTIRE SEGMENT.
- 2. REFER TO SHEETS 24-28 FOR MAINTENANCE ACCESS HOLE ADDITIONAL REHABILITATION/MODIFICATIONS.



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REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

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*M. Salcedo*  
 12/22/23  
 MAIRA SALCEDO, P.E., RCE 77370 DATE

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24 DATE

CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE REHABILITATION -  
 AREA 2

FILE NUMBER  
 23-010

**C-18**

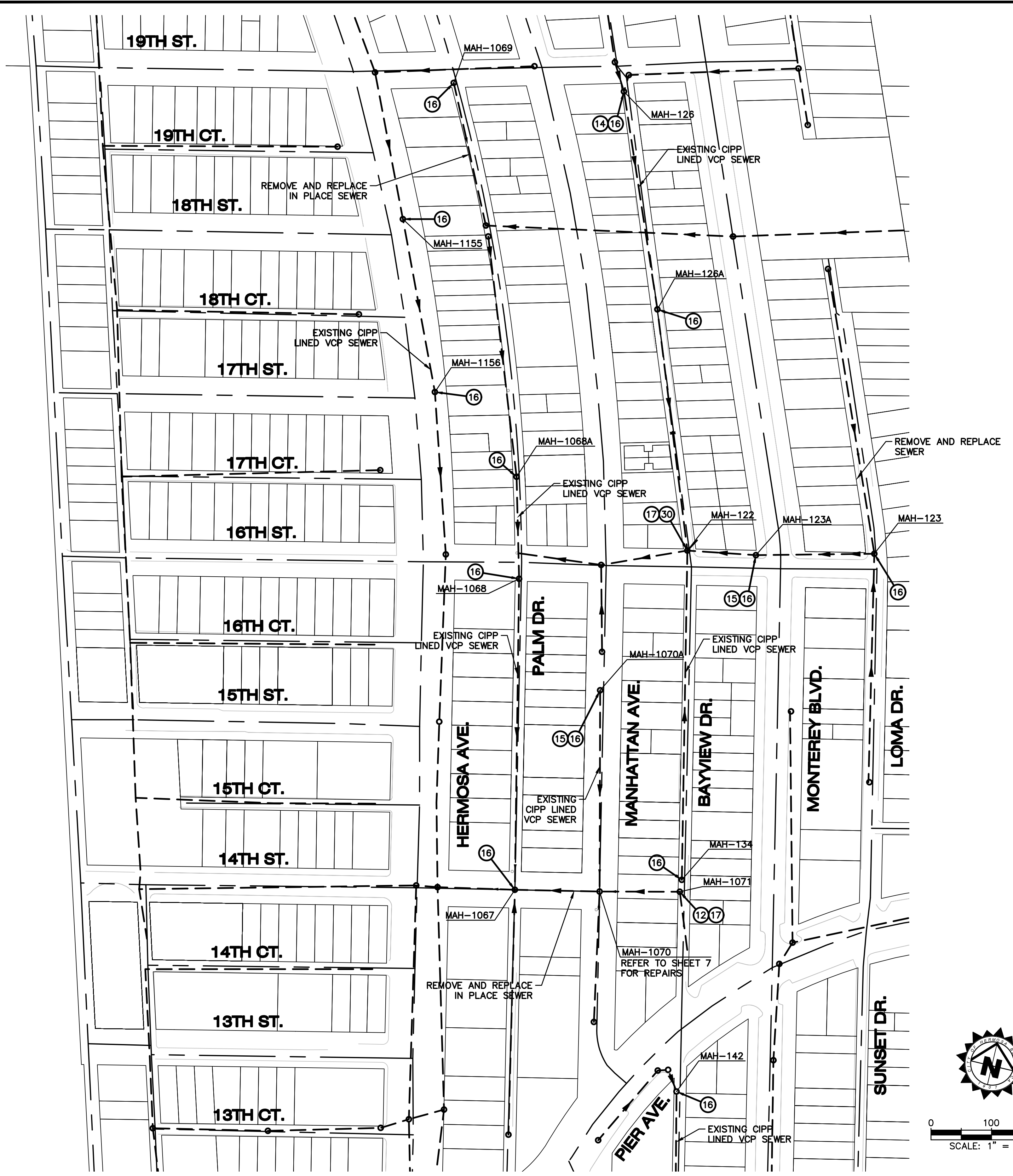
SHT. 23 OF 31

**CONSTRUCTION NOTES**

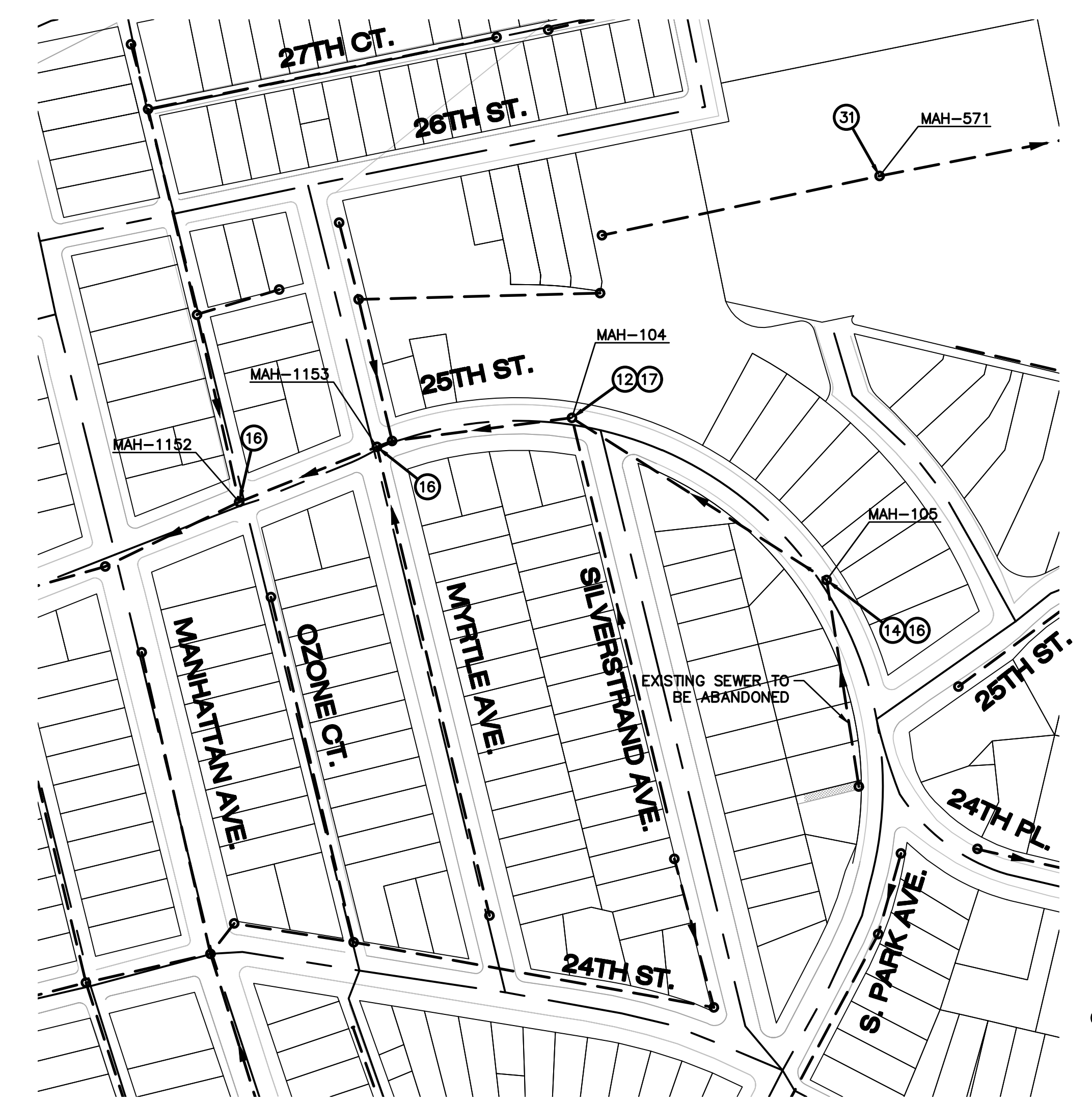
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- 15 RECONSTRUCT MAINTENANCE ACCESS HOLE BENCH AND CHANNEL. CONTRACTOR TO VERIFY CORRECT FLOW DIRECTION.
- 16 REPLACE MAINTENANCE ACCESS HOLE FRAME AND COVER PER SPPWC STANDARD PLAN 210-4, USING CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER. RESTORE SURFACE CONDITIONS.
- 17 REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.
- 30 CONSTRUCT 60" I.D. CONCENTRIC PRECAST REINFORCED CONCRETE ACCESS HOLE PER CITY OF LOS ANGELES STANDARD PLAN S-150-0, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.
- 31 UNCOVER MAINTENANCE ACCESS HOLE. RAISE RIM AND COVER TO GRADE PER SPPWC STANDARD PLAN NO. 205-3.

**NOTE:**

- 1. CONTRACTOR SHALL PROTECT-IN-PLACE CIPP LINER.
- 2. IF MAINTENANCE ACCESS HOLE REHABILITATION REQUIRES EXISTING CIPP LINER TO BE SAWCUT, CONTRACTOR SHALL SEAL THE ENDS.



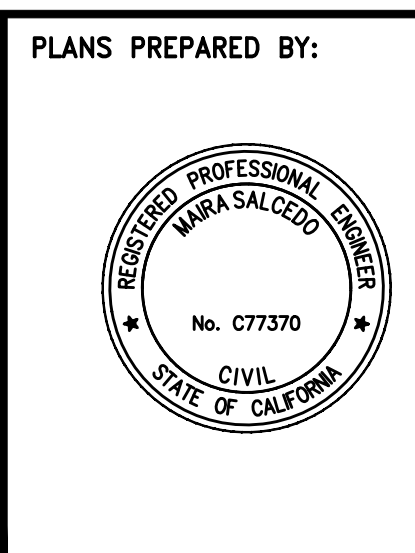
AREA 3 & 6 - MAINTENANCE ACCESS HOLES



AREA 4 - MAINTENANCE ACCESS HOLES



REVISIONS		
No.	DESCRIPTION	DATE



**PSOMAS**  
 5 HUTTON CENTRE DRIVE, SUITE 300  
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 FAX (714) 545-8883

*M. Salcedo*  
 MAIRA SALCEDO, P.E., RCE 77370 DATE 12/22/23

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
 DATE 5-15-24

CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE REHABILITATION -  
 AREA 3

FILE NUMBER  
 23-010

**C-19**

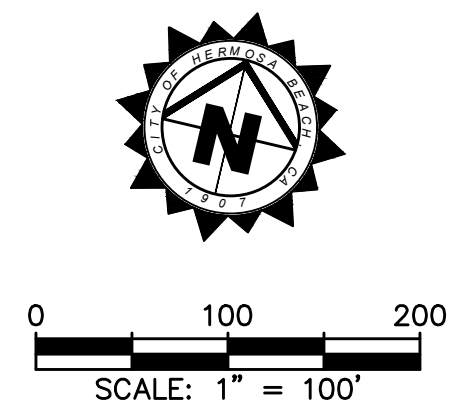
SHT. 24 OF 31



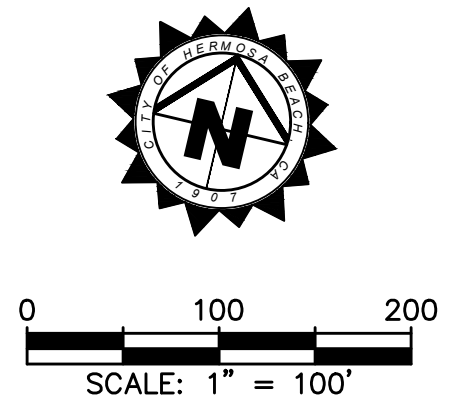
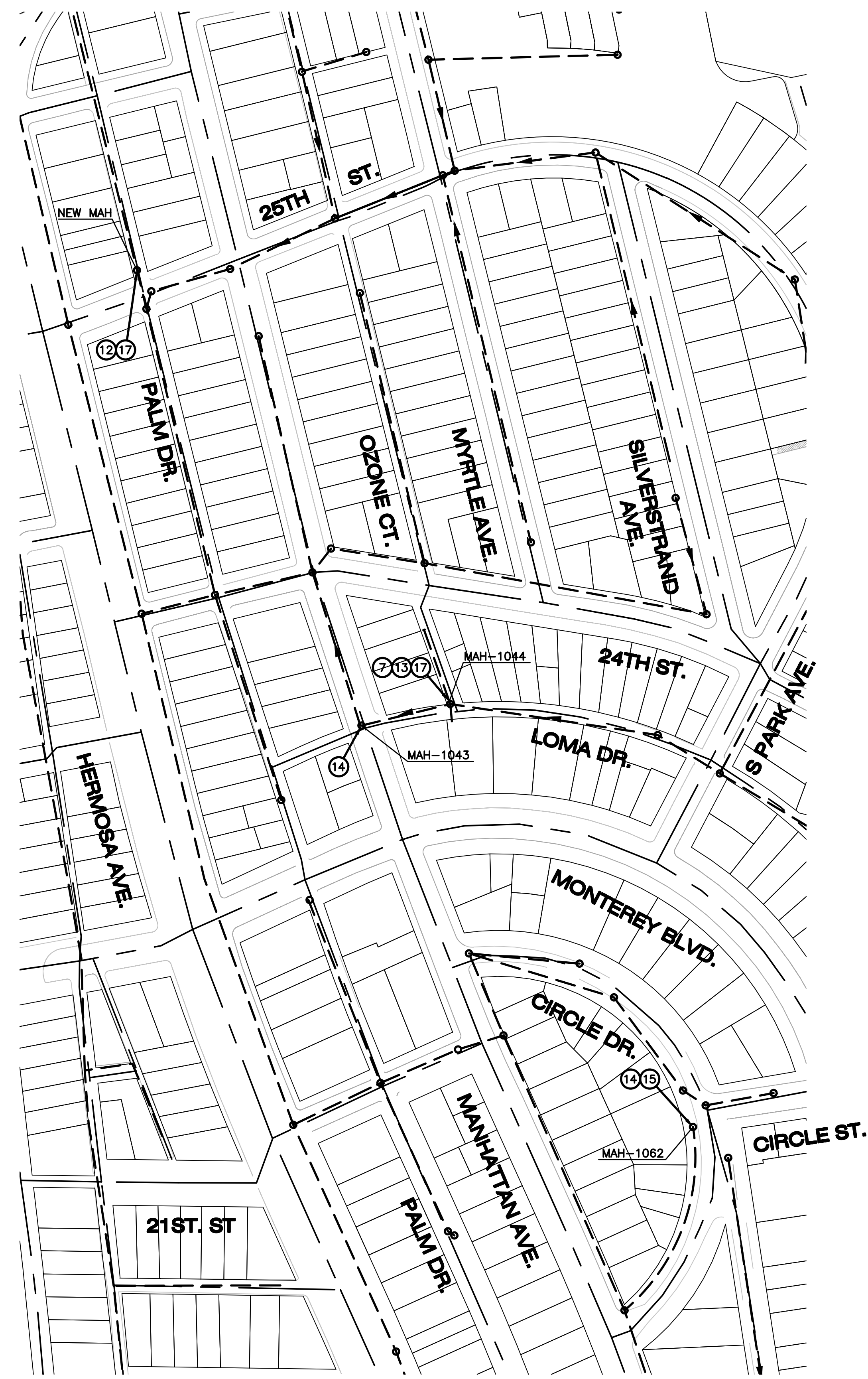
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### CONSTRUCTION NOTES

- 7 REMOVE AND RECONSTRUCT LONGITUDINAL GUTTER PER SPPWC STANDARD PLAN NO. 122-3.
- 12 CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.
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- 15 RECONSTRUCT MAINTENANCE ACCESS HOLE BENCH AND CHANNEL. CONTRACTOR TO VERIFY CORRECT FLOW DIRECTION.
- 16 REPLACE MAINTENANCE ACCESS HOLE FRAME AND COVER PER SPPWC STANDARD PLAN 210-4, USING CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER. RESTORE SURFACE CONDITIONS.
- 17 REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.
- 18 CONSTRUCT 48" I.D. CONCENTRIC PRECAST REINFORCED CONCRETE SHALLOW MAINTENANCE ACCESS HOLE PER SPPWC 201-3, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.



AREA 5 & 6 - MAINTENANCE ACCESS HOLES



AREA 6 EXTENDED - MAINTENANCE ACCESS HOLES



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:  
  
 Maira Salcedo  
 CIVIL ENGINEER  
 STATE OF CALIFORNIA

**PSOMAS**  
 5 HUTTON CENTRE DRIVE, SUITE 300  
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 TEL (714) 751-7373  
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 12/22/23  
 MAIRA SALCEDO, P.E., RCE 77370 DATE

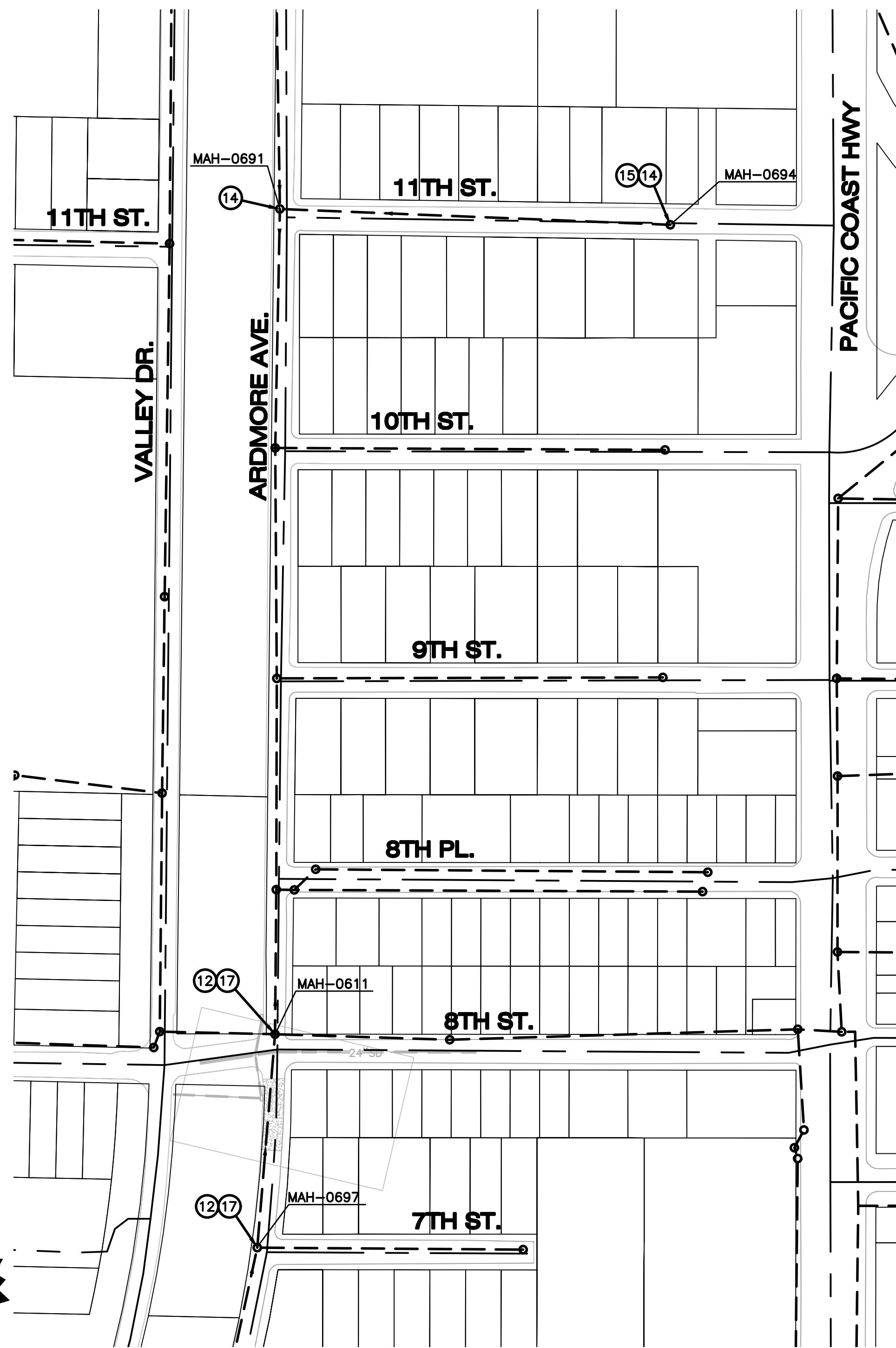
CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT  
 RECOMMENDED FOR PERMIT ISSUANCE:  
  
 5-15-24 DATE

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 ANNUAL SEWER IMPROVEMENTS PHASE 2  
 MANHOLE REHABILITATION -  
 AREA 4

FILE NUMBER  
 23-010  
**C-20**  
 SHT. 25 OF 31

### CONSTRUCTION NOTES

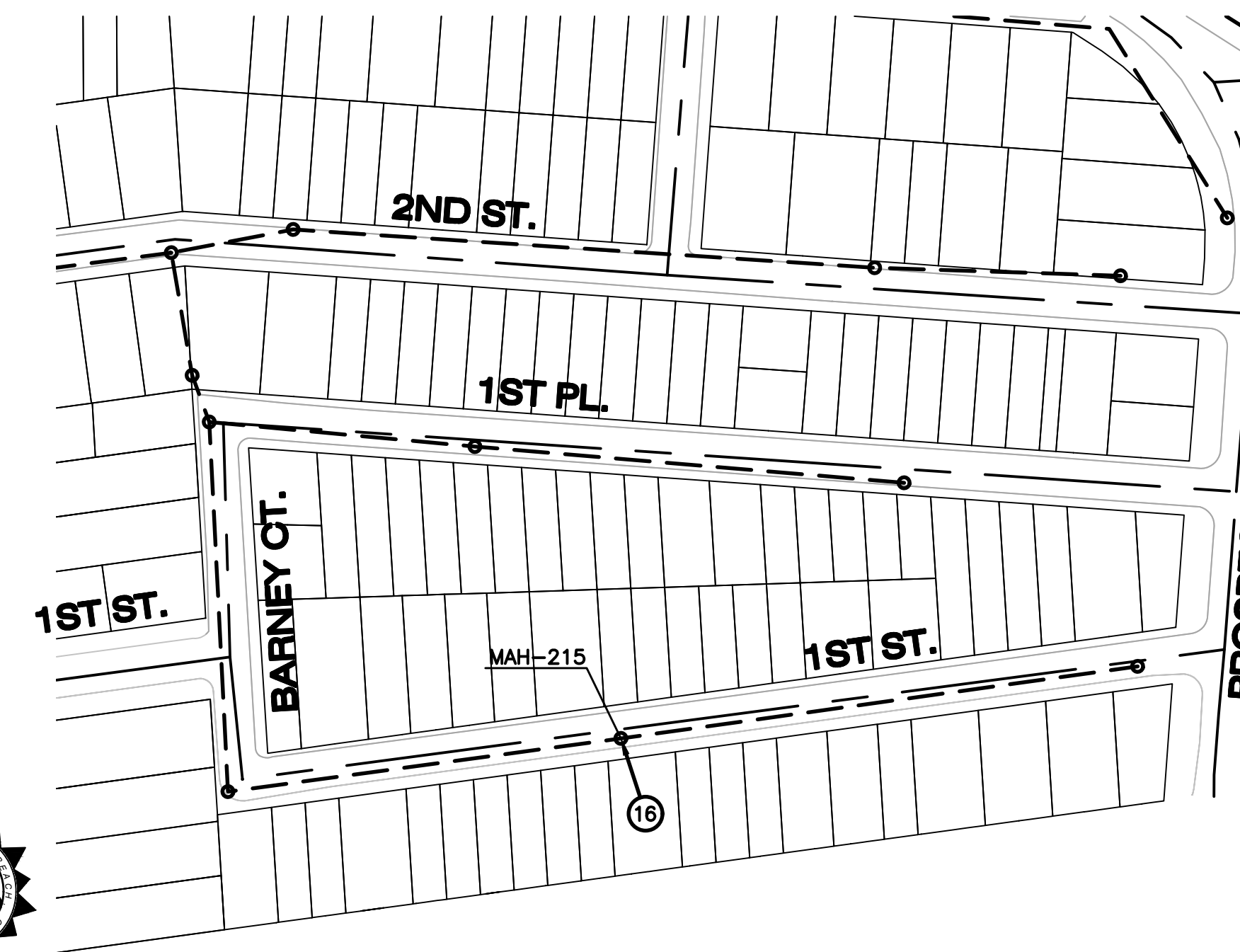
- 12 CONSTRUCT 48" I.D. PRECAST REINFORCED CONCRETE MAINTENANCE ACCESS HOLE PER SPPWC STANDARD PLAN 200-4, WITH UTILITHANE COATING (OR APPROVED EQUAL) AND CUSTOM "CITY OF HERMOSA BEACH" FRAME AND COVER PER SPECIFICATION SECTION 33 01 38, AND AS INDICATED IN TABLE ON SHEET 24.
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- 17 REMOVE AND DISPOSE OF EXISTING MAINTENANCE ACCESS HOLE AND BASE.



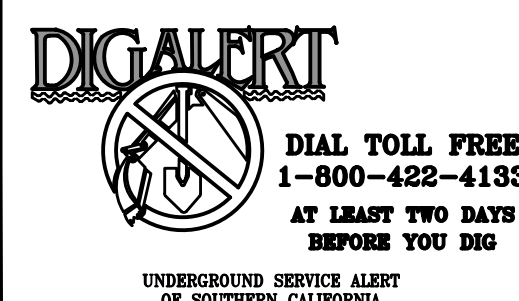
AREA 7 - MAINTENANCE ACCESS HOLES



AREA 8 - MAINTENANCE ACCESS HOLES



AREA 9 - MAINTENANCE ACCESS HOLES



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
 5 HUTTON CENTRE DRIVE, SUITE 300  
 SANTA ANA, CA 92707  
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*M. Salcedo*  
 MAIRA SALCEDO, P.E., RCE 77370  
 12/22/23  
 DATE

CITY OF HERMOSA BEACH  
 PUBLIC WORKS DEPARTMENT

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 5-15-24  
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CIP 421  
 ANNUAL SEWER IMPROVEMENTS PHASE 2

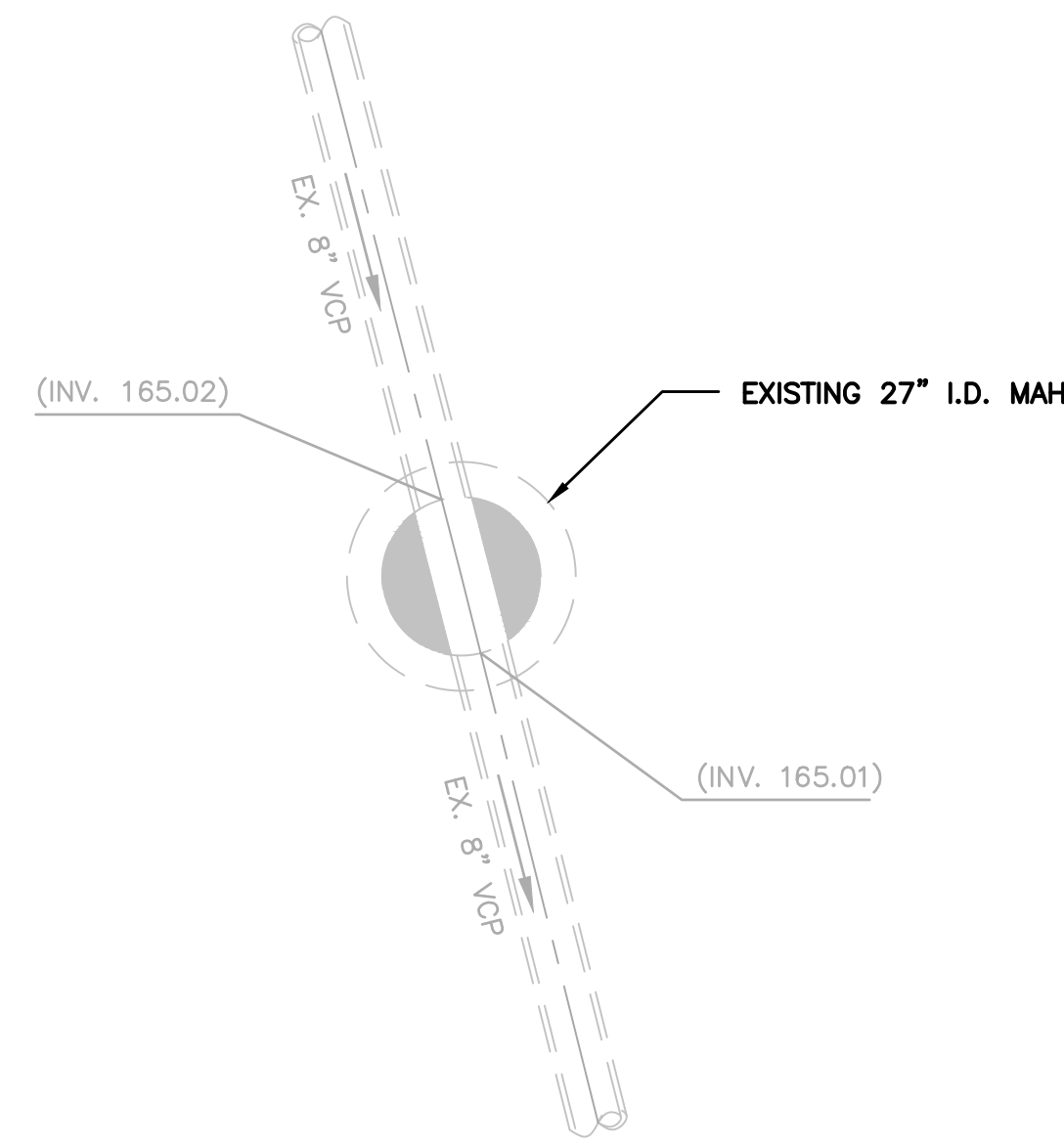
MANHOLE REHABILITATION -  
 AREA 5

FILE NUMBER  
 23-010

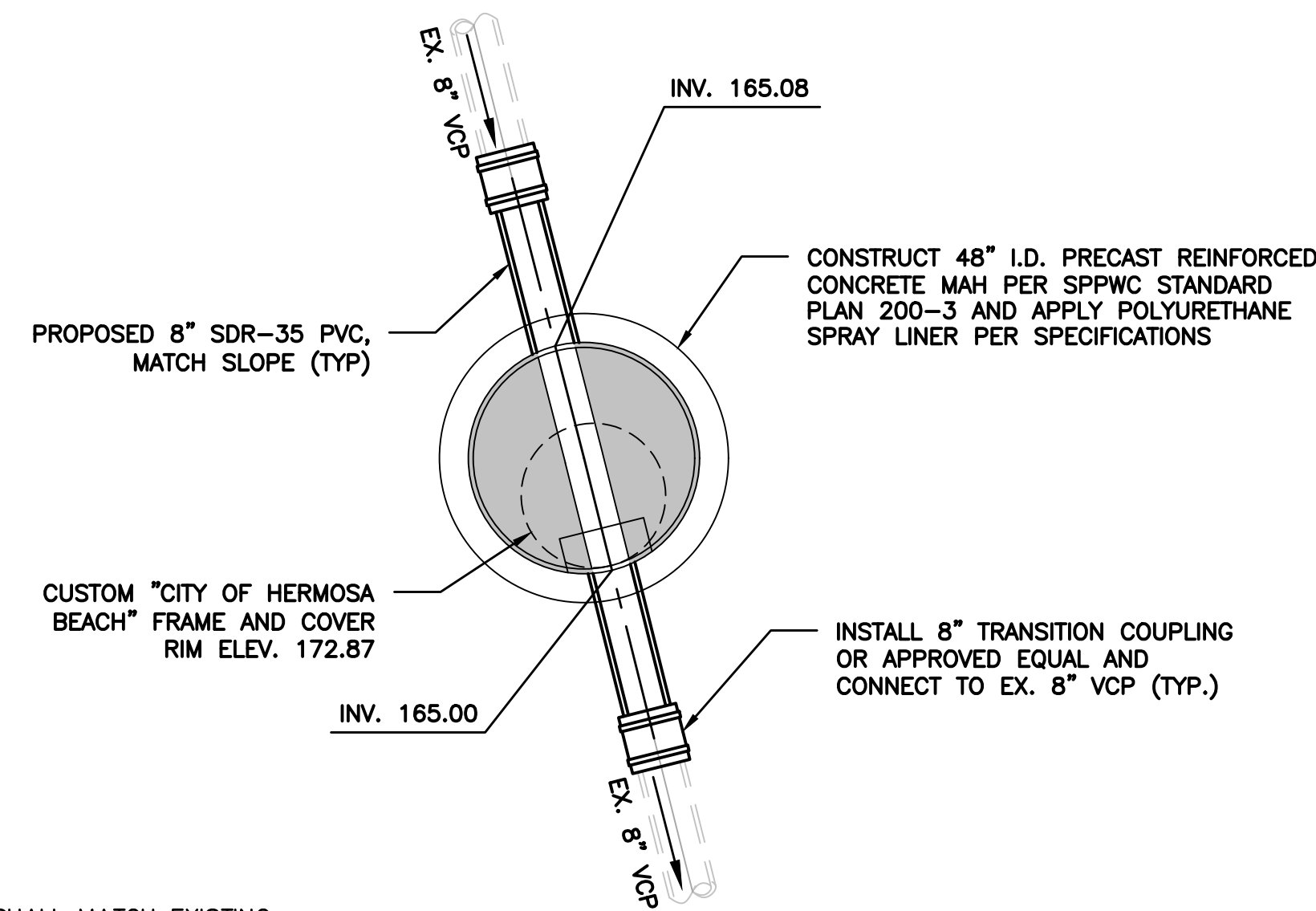
**C-21**

SHT. 26 OF 33

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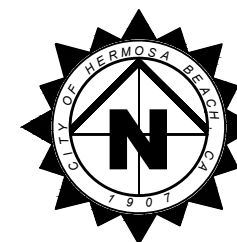


EXISTING CONDITION



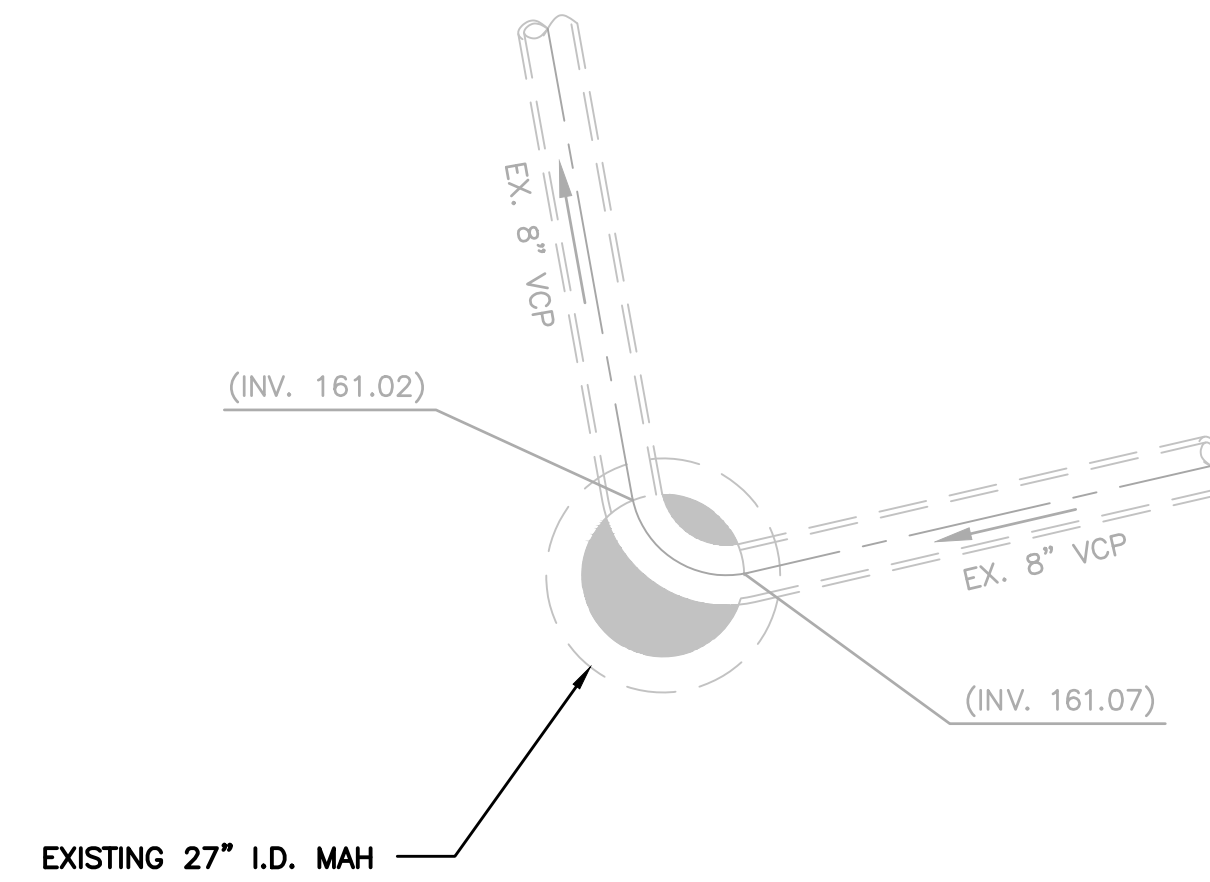
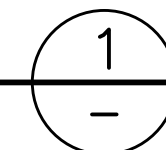
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 7.8 FT

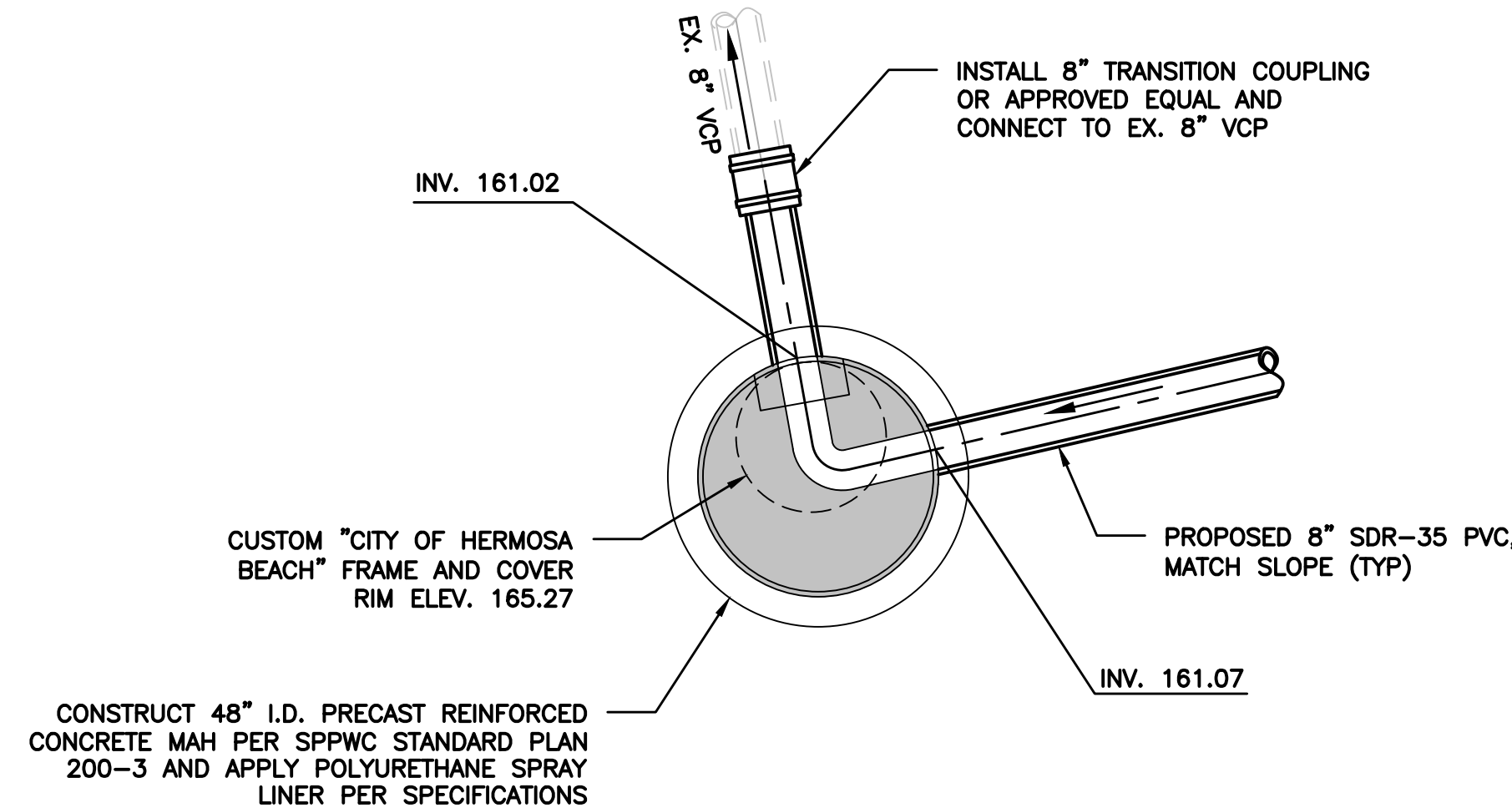


**AREA 1**  
**MAH 786 - HILLCREST DR.**

SCALE: 3/8" = 1'-0"



EXISTING CONDITION



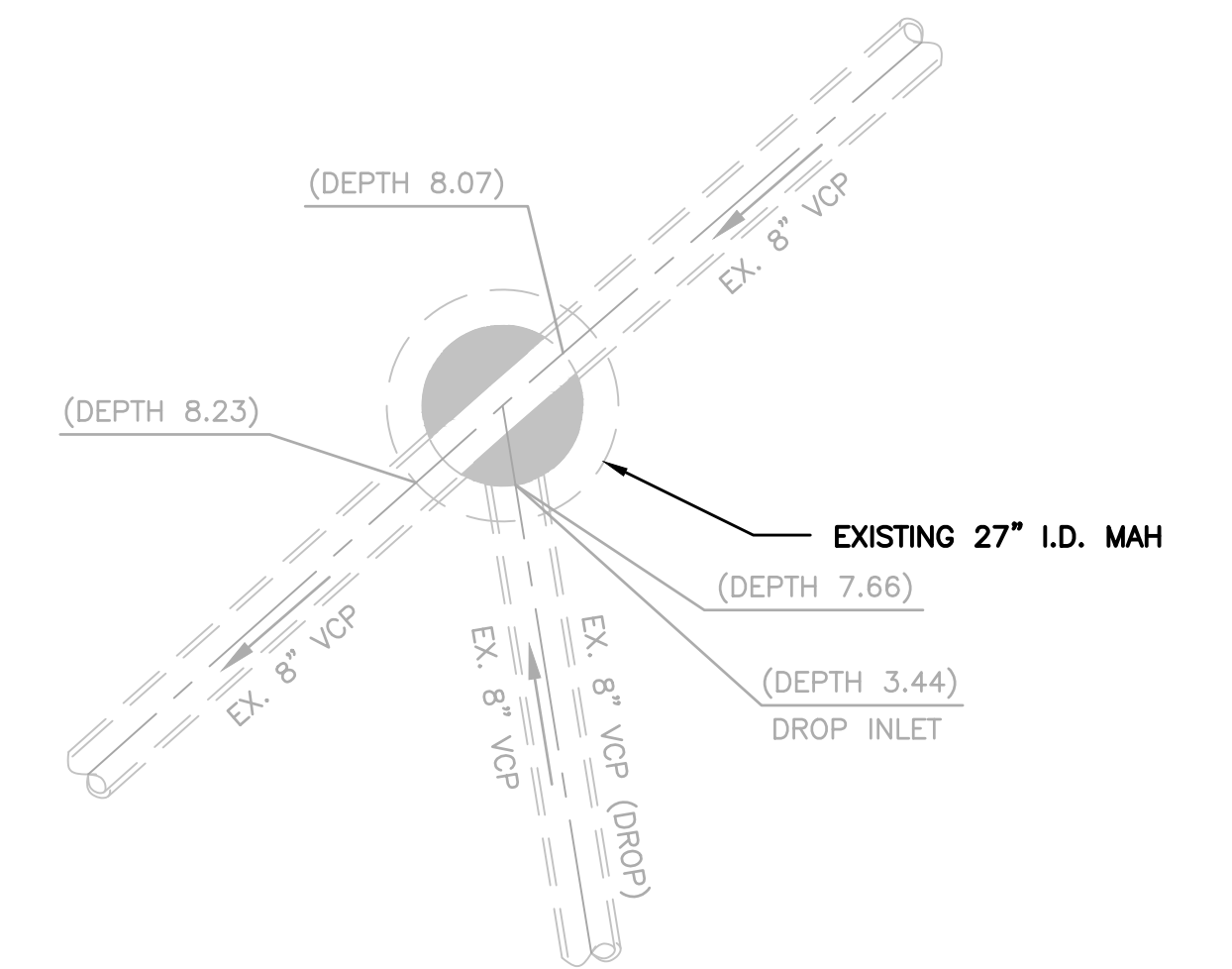
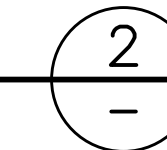
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 4.19 FT

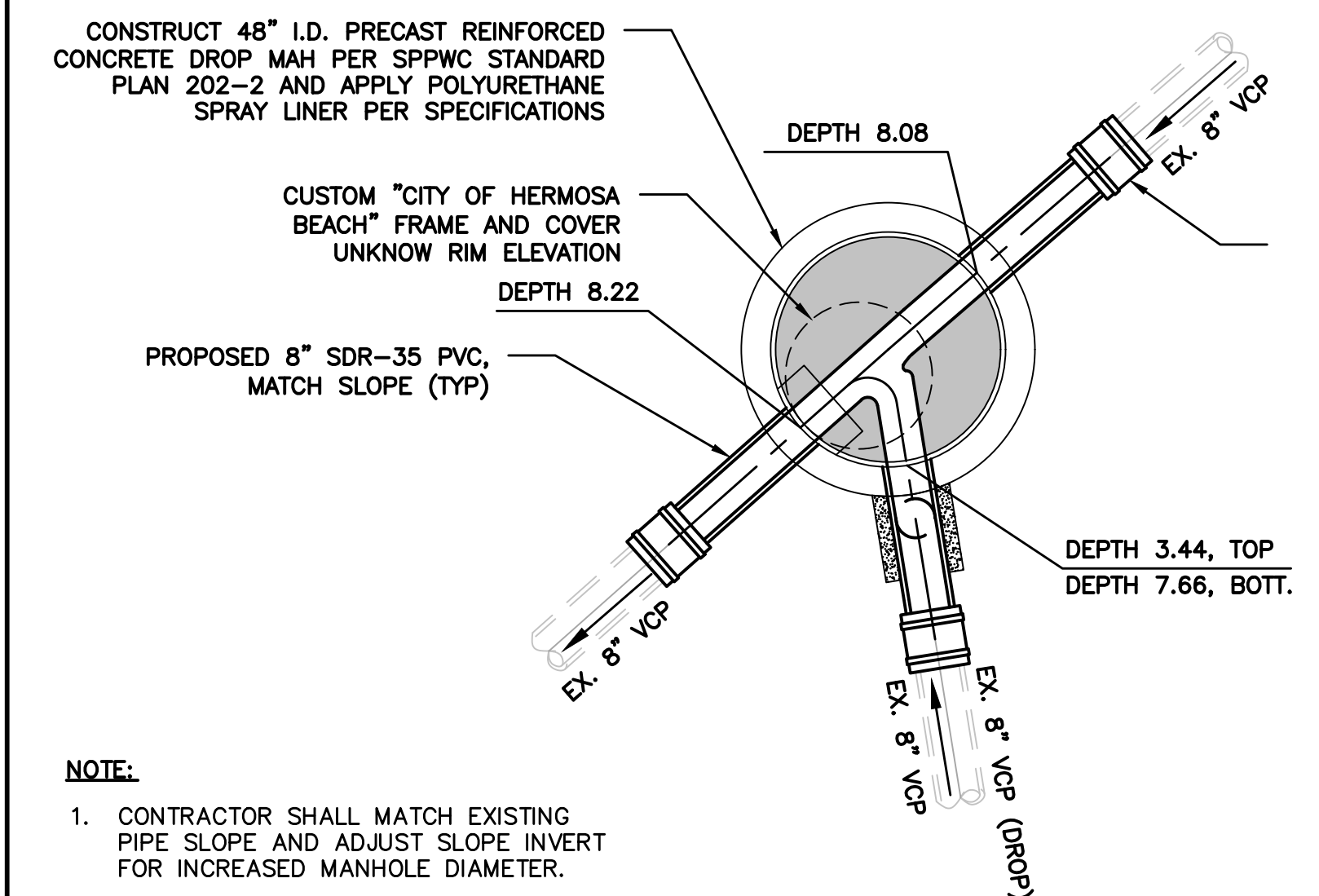


**AREA 1**  
**MAH 792 - 17TH ST.**

SCALE: 3/8" = 1'-0"

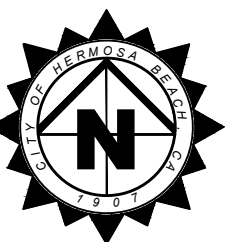


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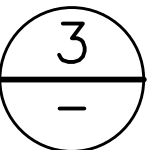
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 8.0 FT



**AREA 2**  
**MAH 629 - AVIATION BLVD.**

SCALE: 3/8" = 1'-0"



**NOTE:**

- RIM TO INVERT DEPTHS ARE PROVIDED FOR EXISTING CONDITION.
- CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND PROVIDE NEW RIM TO INVERT FOR EACH PIPE TO THE NEAREST HUNDREDTH.

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REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

**PSOMAS**  
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TEL (714) 751-7373  
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*M. Salcedo*  
Maira Salcedo, P.E., RCE 77370  
12/22/23 DATE

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PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

5-15-24 DATE

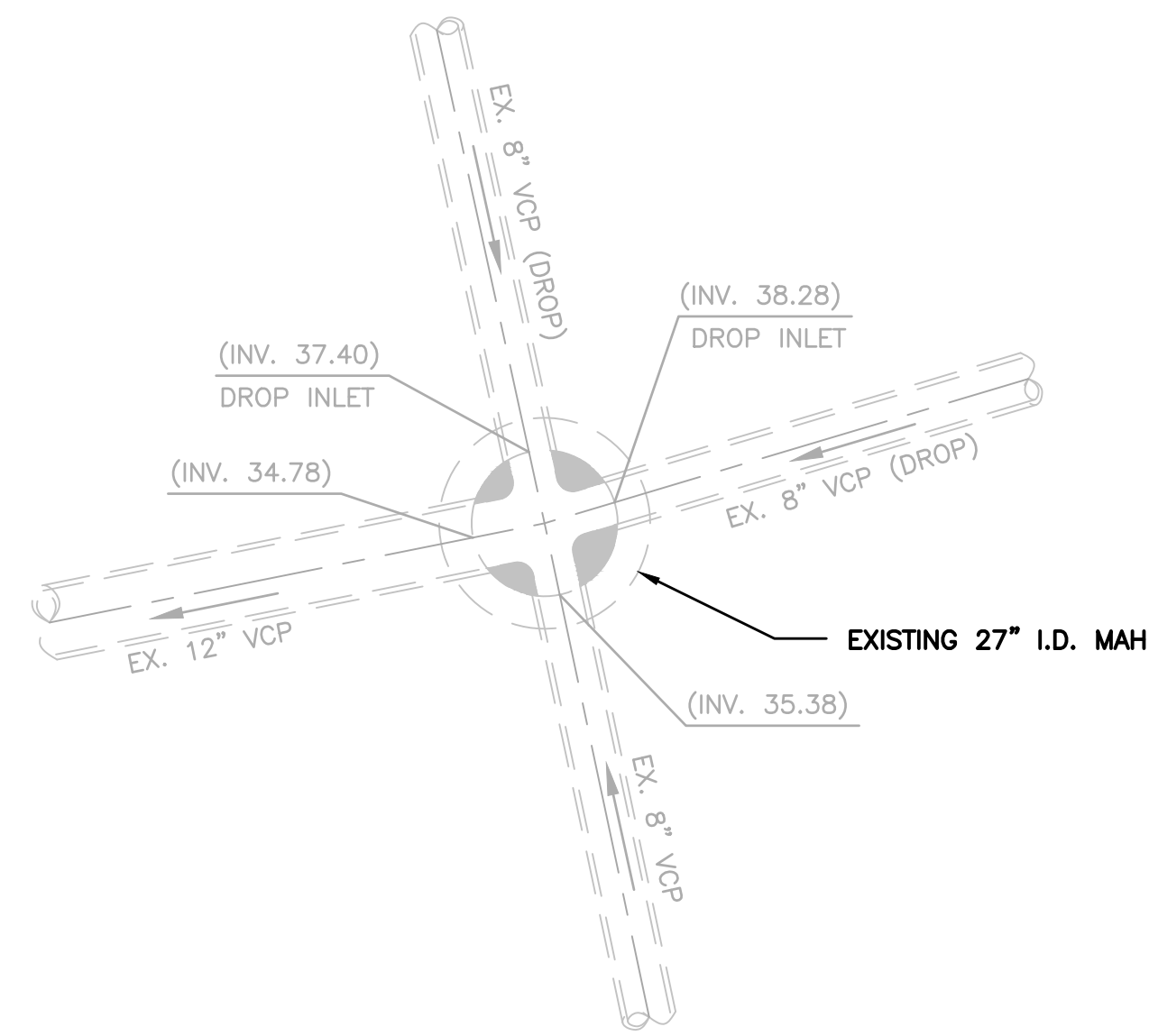
CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE DETAILS - 1/5

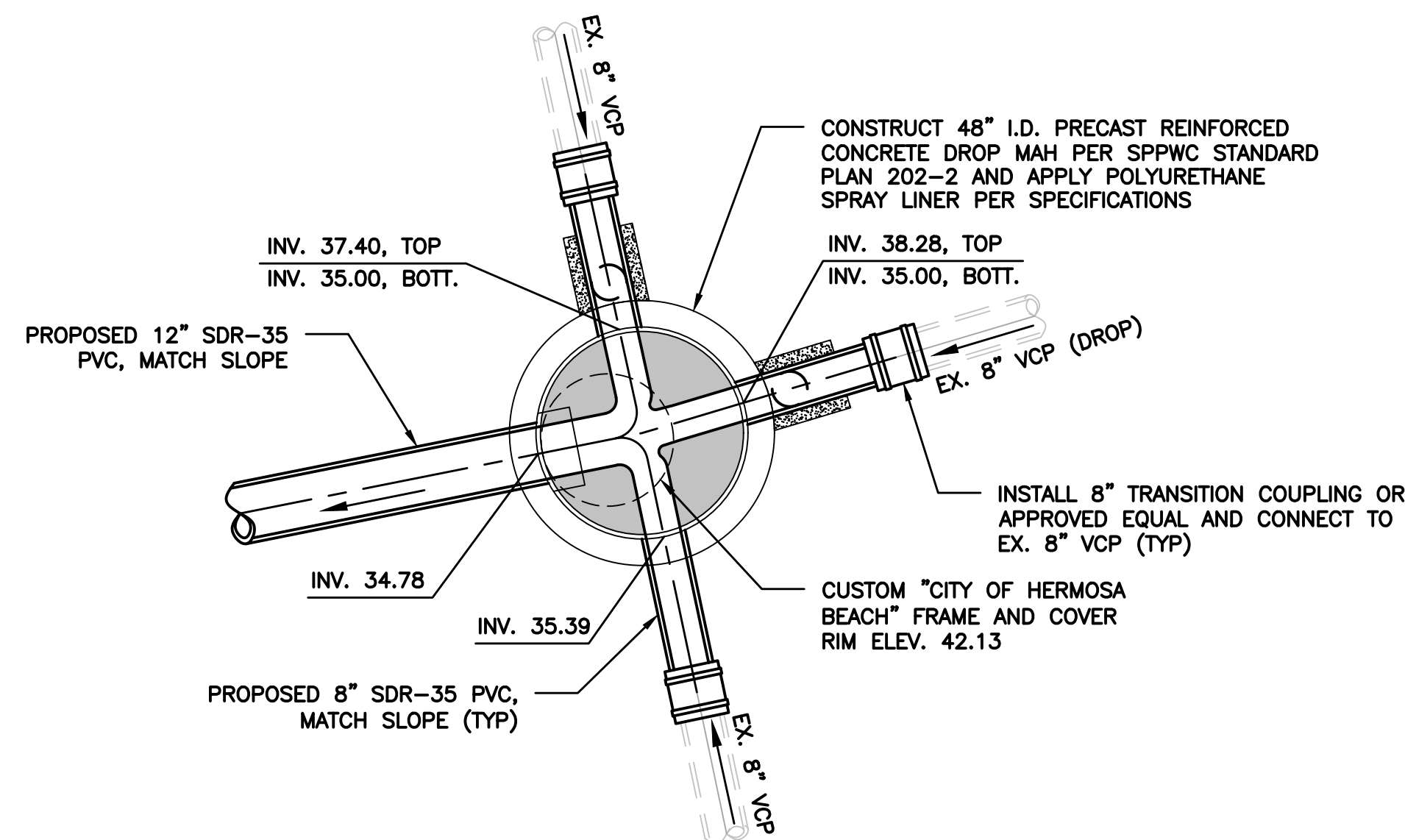
FILE NUMBER  
23-010

C-22

SHT. 27 OF 31



EXISTING CONDITION



**NOTE:**  
1. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

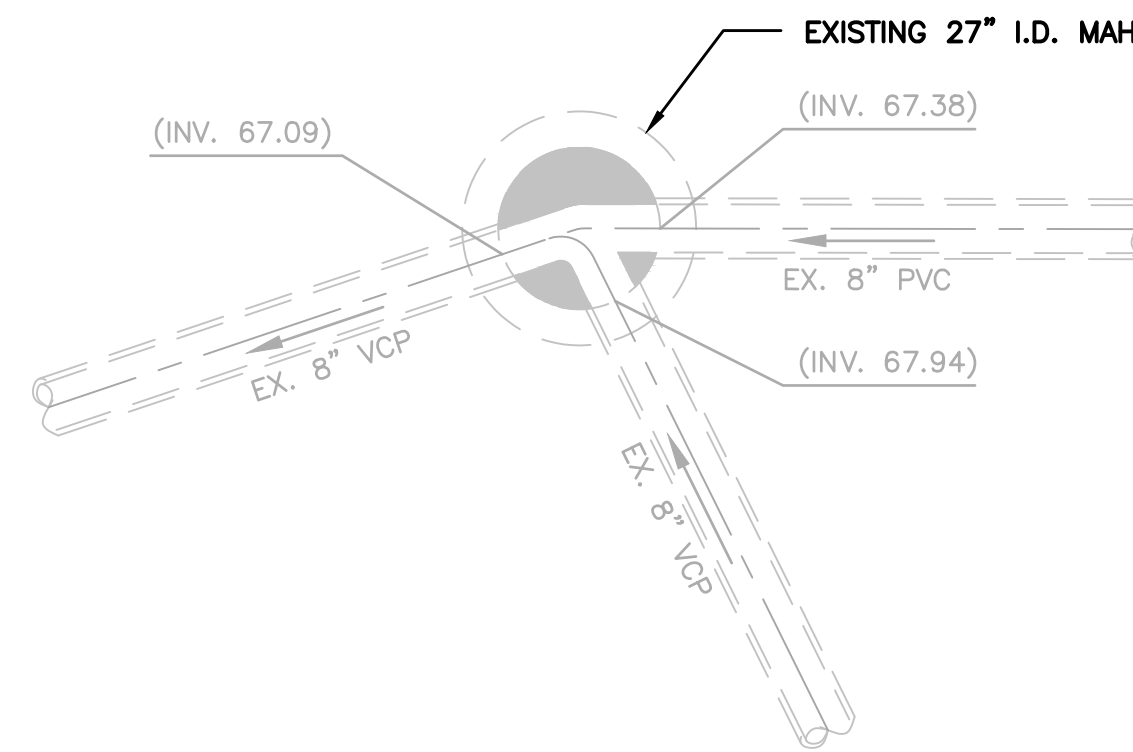
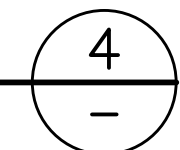
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 7.35 FT

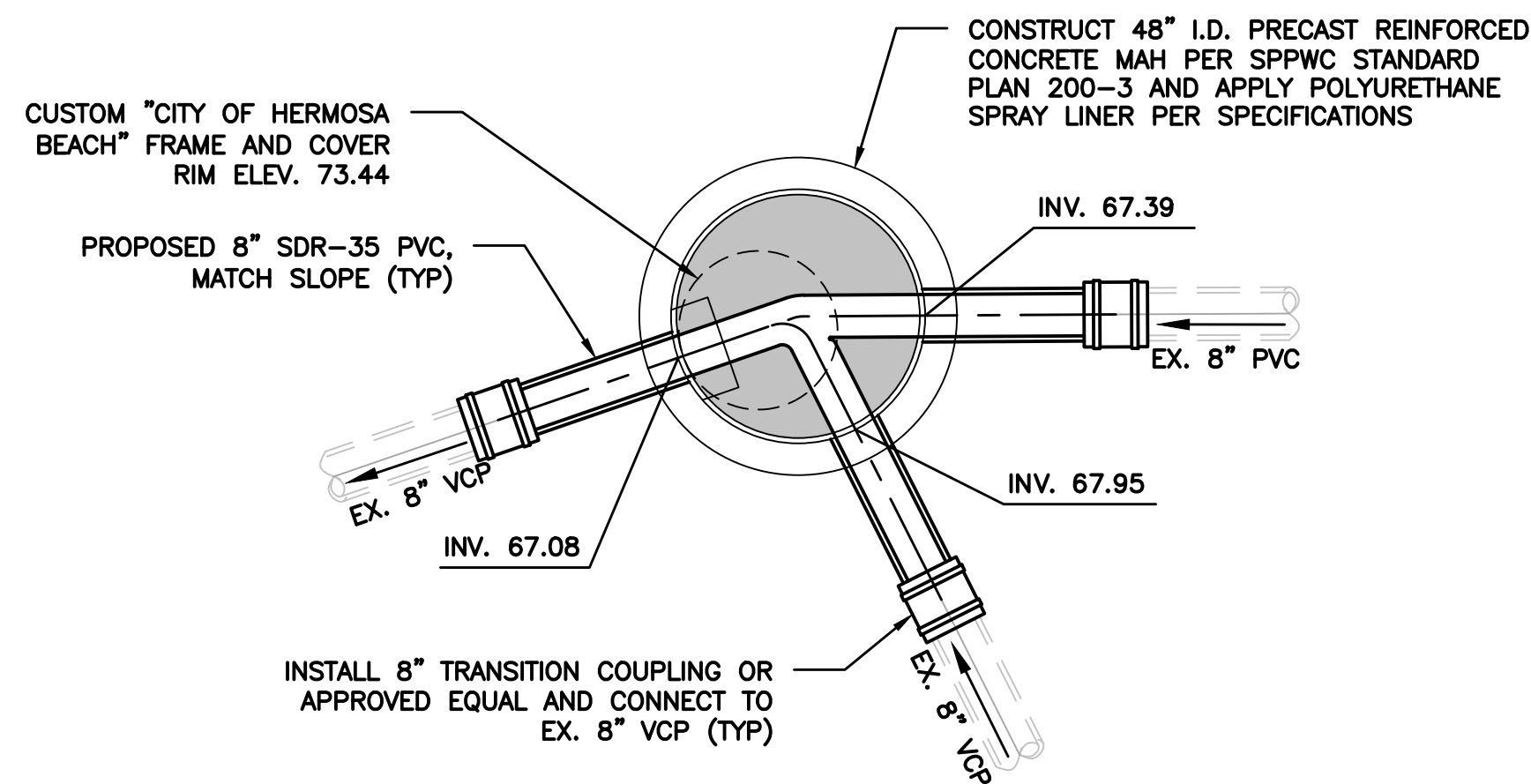


**AREA 3  
MAH 1070 - 14TH ST.**

SCALE: 3/8" = 1'-0"



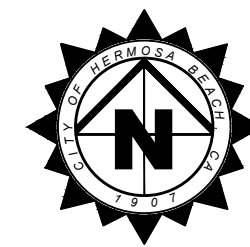
EXISTING CONDITION



**NOTE:**  
1. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

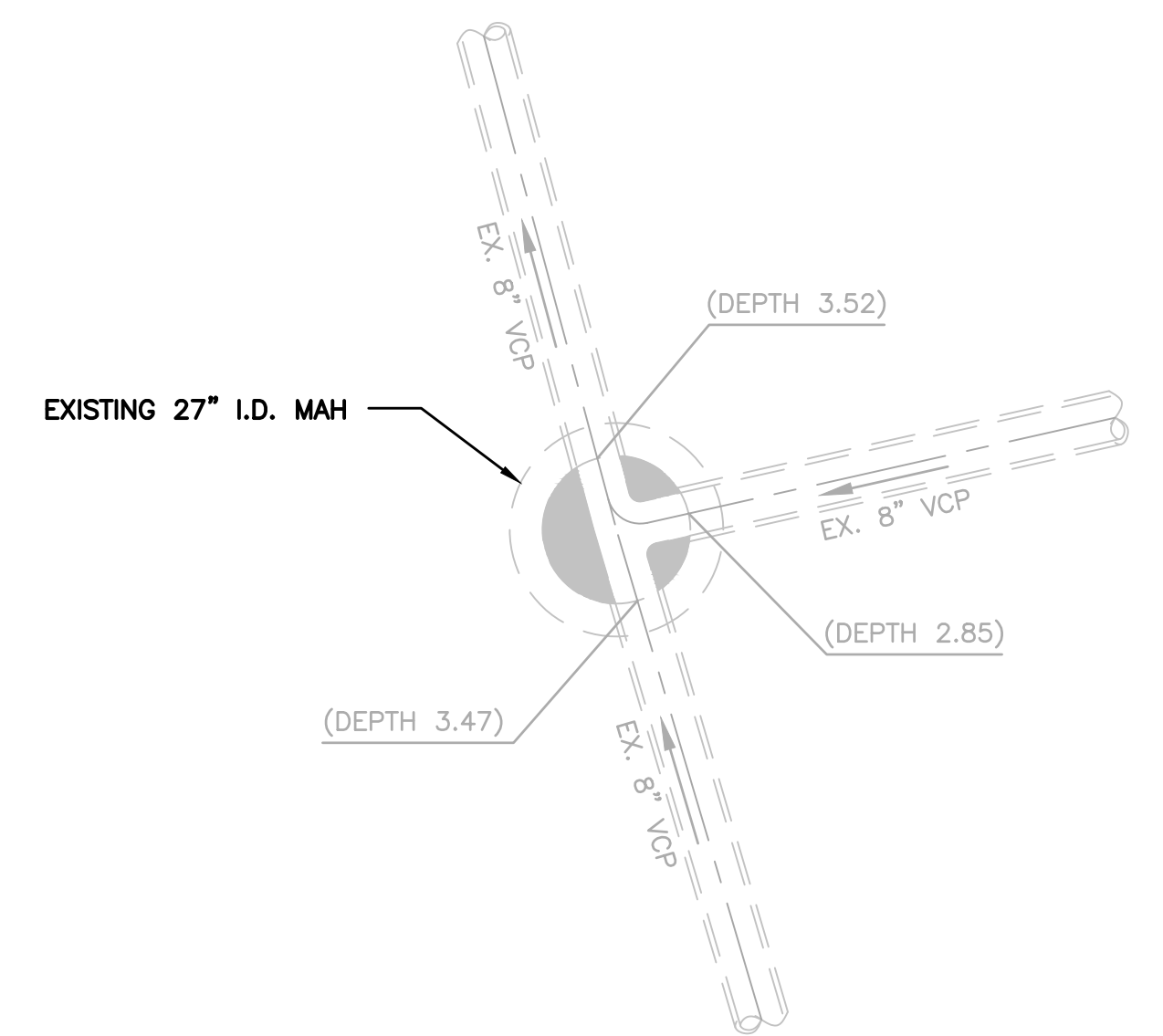
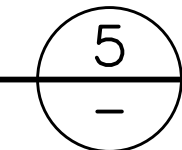
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 6.0 FT

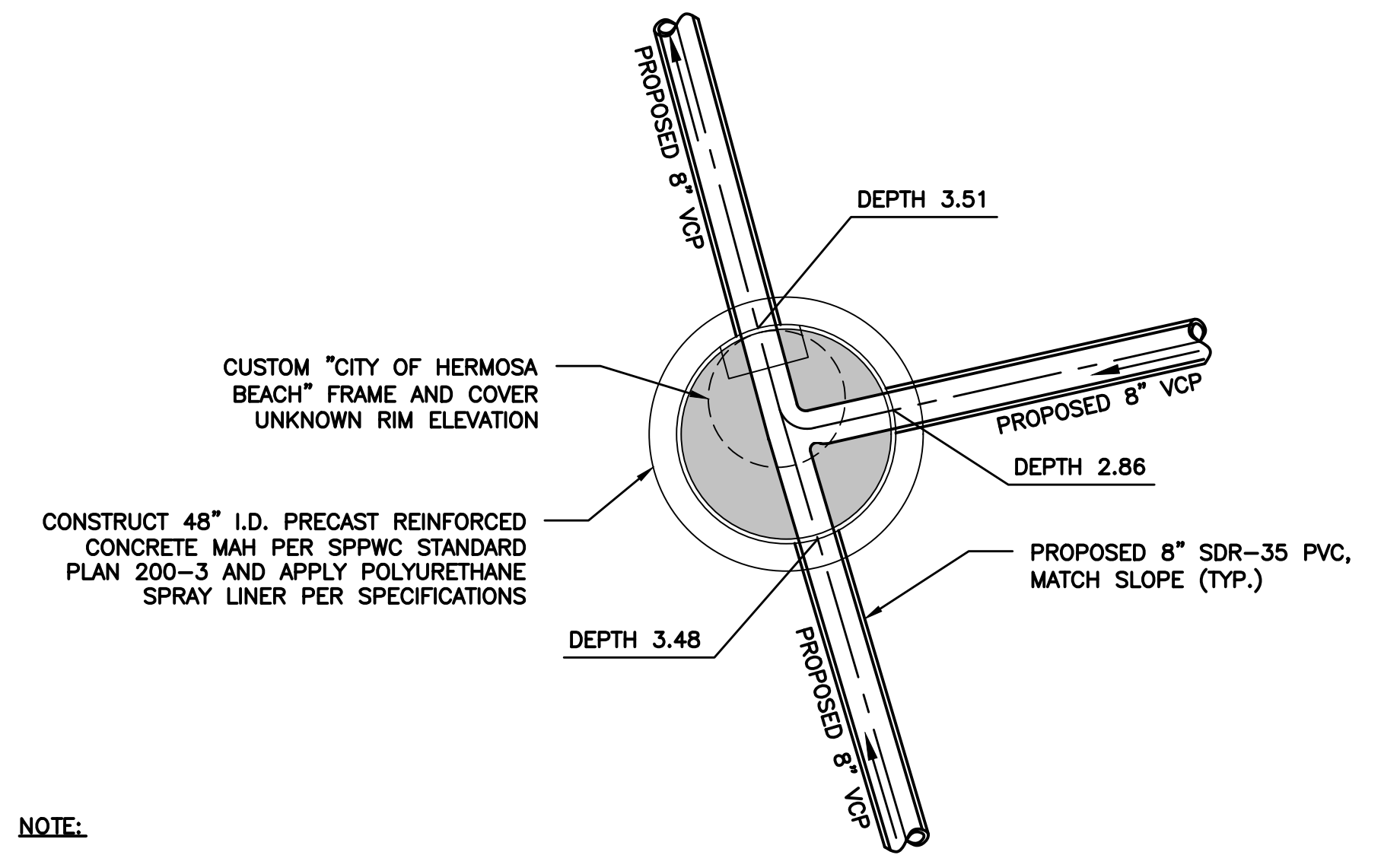


**AREA 4  
MAH 104 - 25TH ST.**

SCALE: 3/8" = 1'-0"



EXISTING CONDITION



**NOTE:**  
1. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

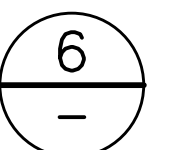
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 3.3 FT



**AREA 5  
MAH 1096 - 10TH CT.**

SCALE: 3/8" = 1'-0"



**NOTE:**  
1. RIM TO INVERT DEPTHS ARE PROVIDED FOR EXISTING CONDITION.  
2. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND PROVIDE NEW RIM TO INVERT FOR EACH PIPE TO THE NEAREST HUNDRETH.



REVISIONS		
No.	DESCRIPTION	DATE

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Maira Salcedo, P.E., RCE 77370  
DATE 12/22/23

CITY OF HERMOSA BEACH  
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

*[Signature]*  
DATE 5-15-24

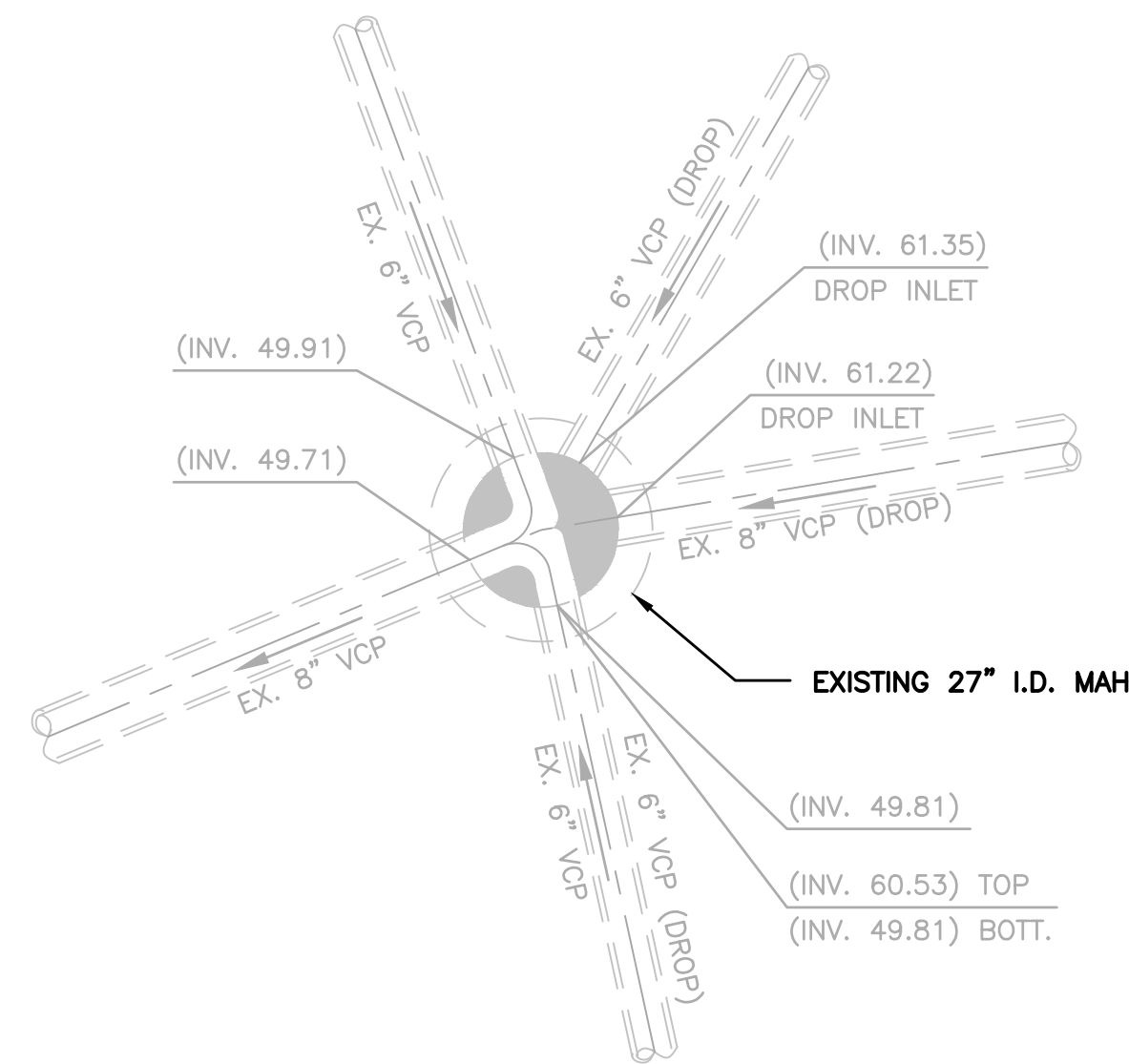
CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE DETAILS - 2/5

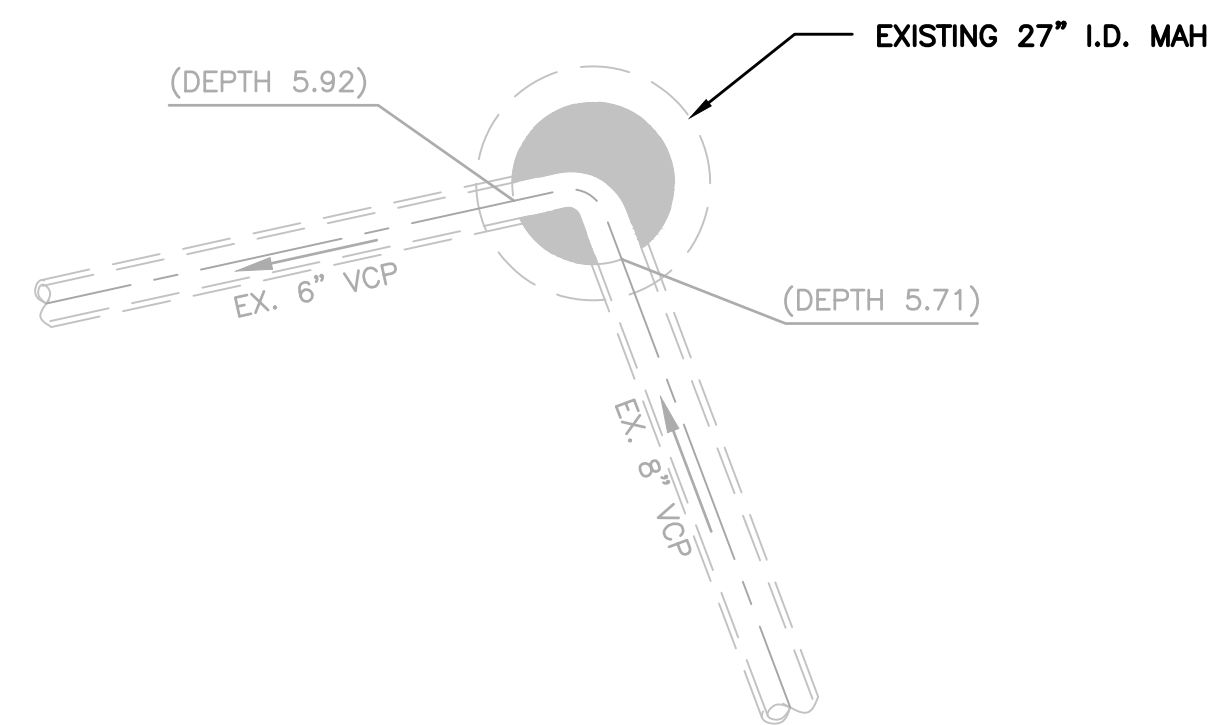
FILE NUMBER  
23-010

C-23

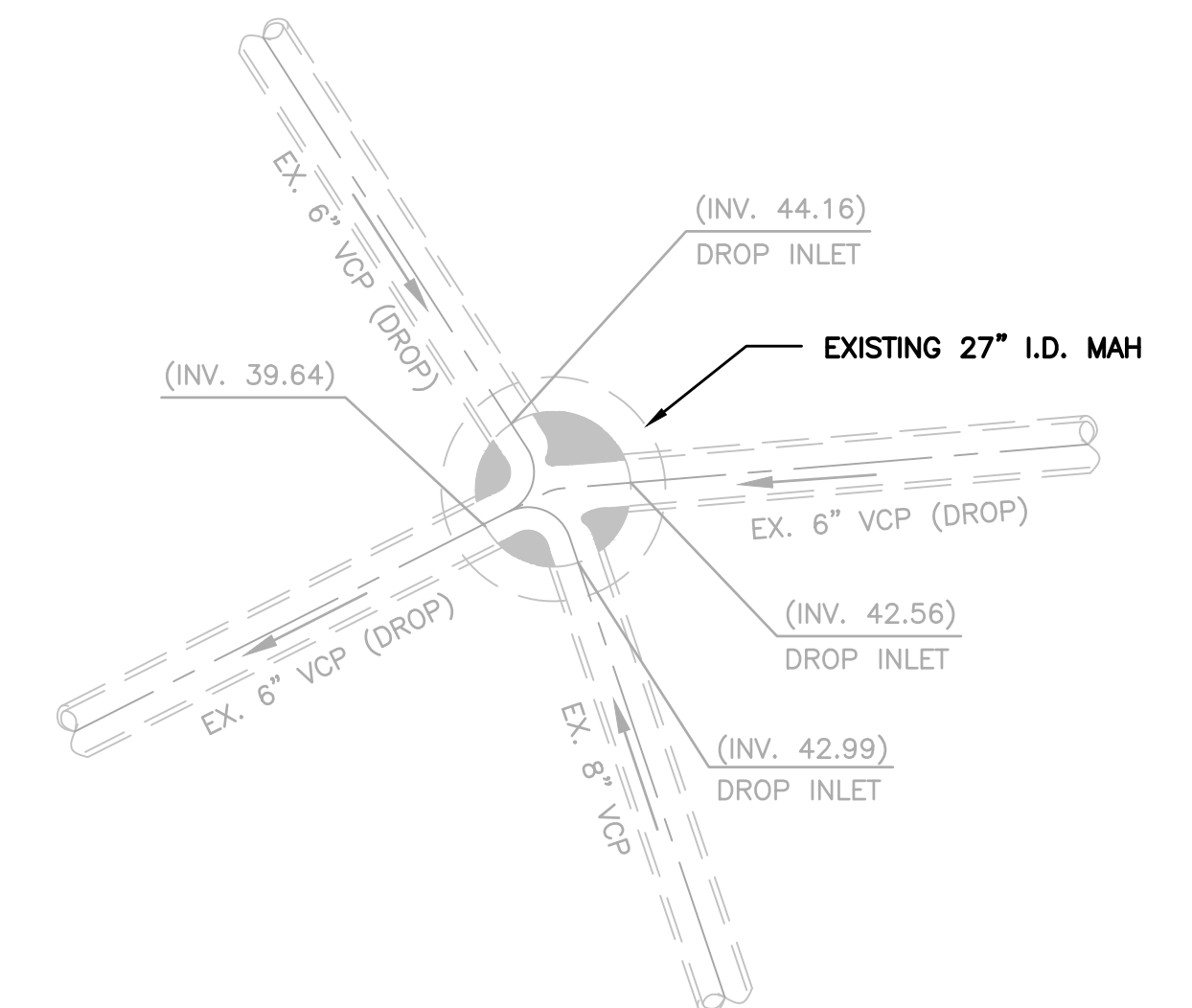
SHT. 28 OF 31



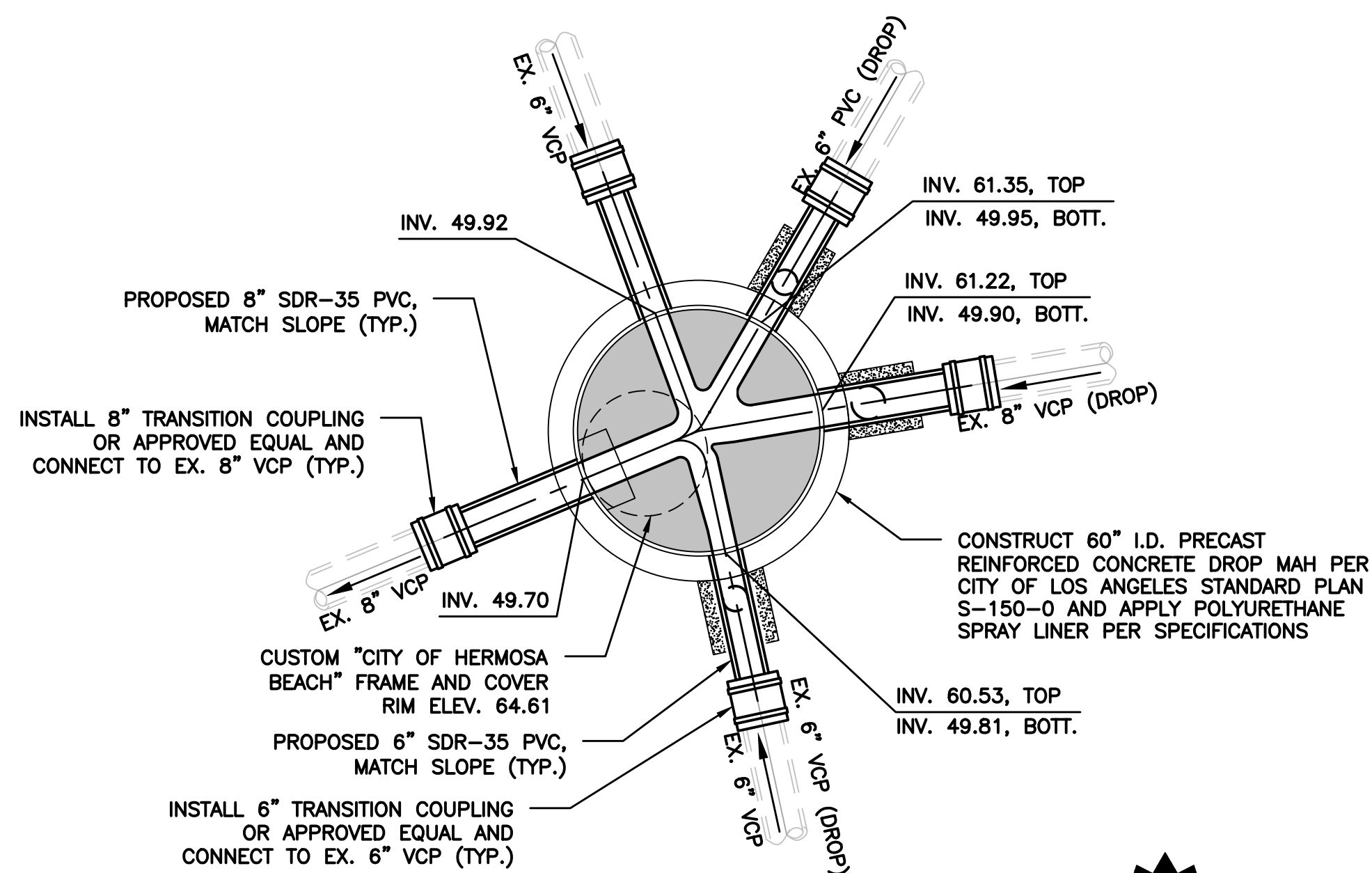
EXISTING CONDITION



EXISTING CONDITION



EXISTING CONDITION



PROPOSED CONDITION

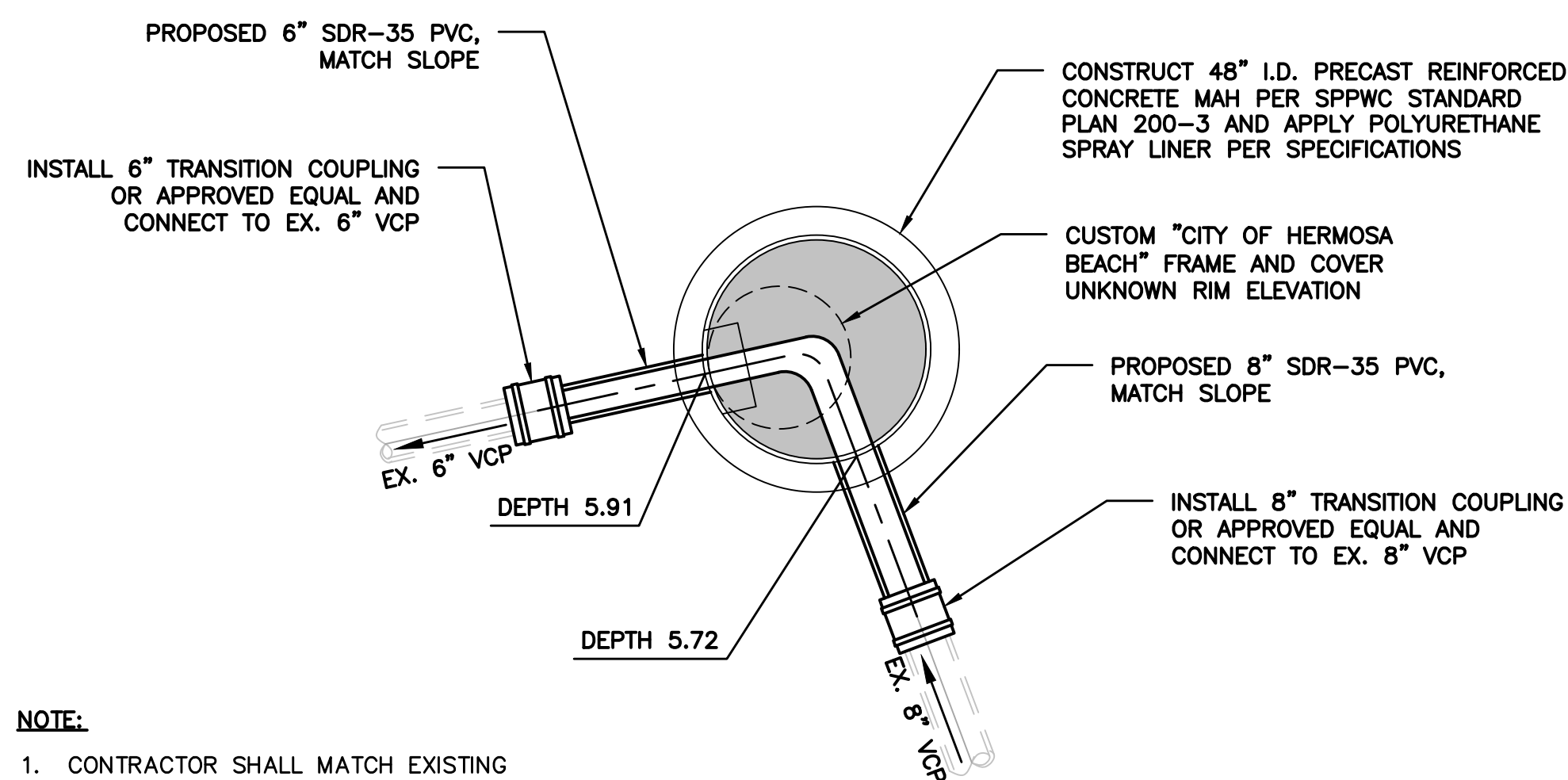
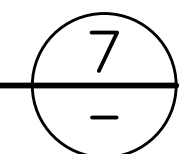
NOTE:  
1. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

ESTIMATED MAH DEPTH: 14.8 FT



**AREA 6**  
**MAH 122 - BAYVIEW DR.**

SCALE: 3/8" = 1'-0"



PROPOSED CONDITION

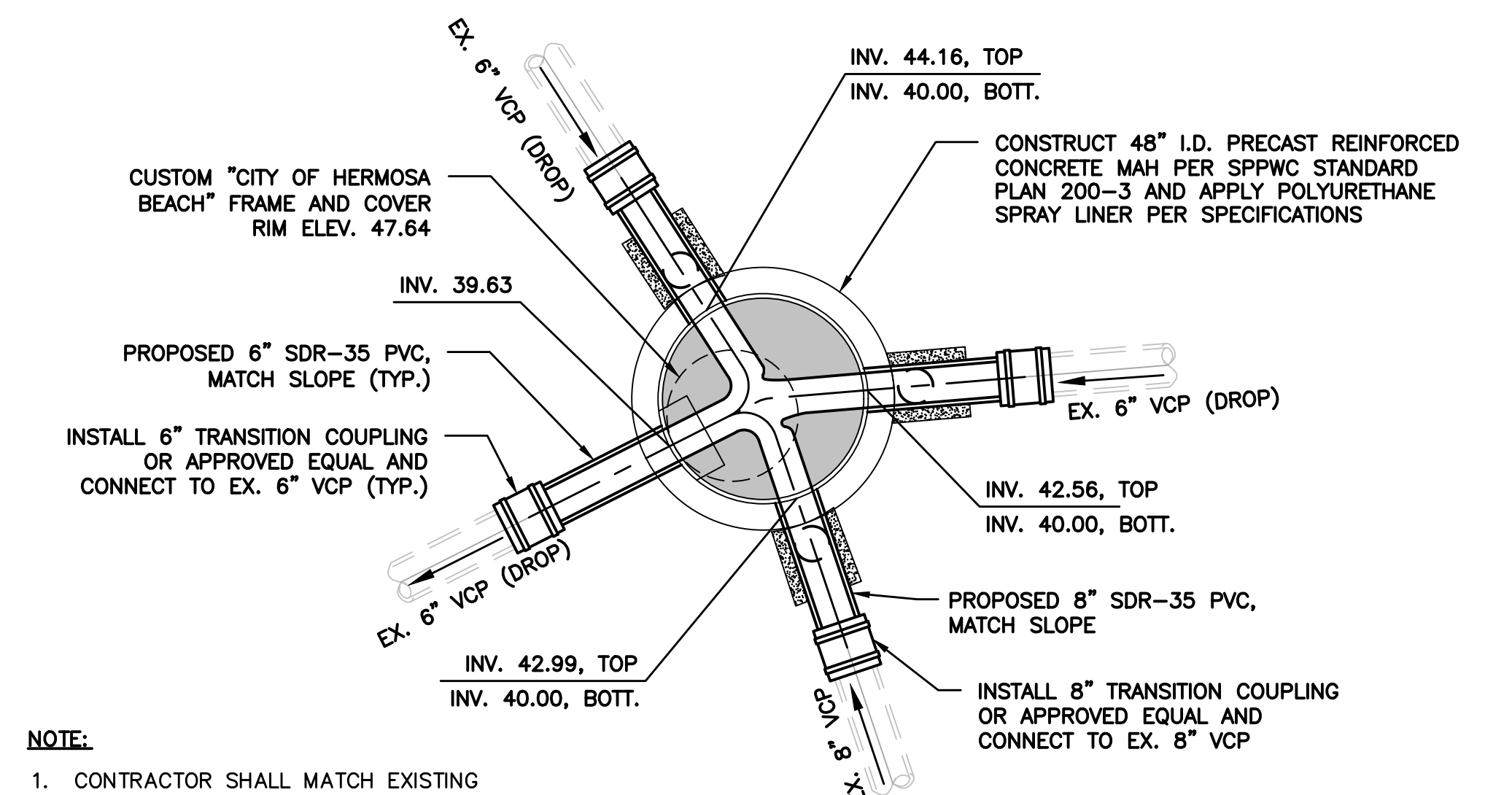
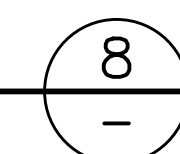
NOTE:  
1. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

ESTIMATED MAH DEPTH: 5.8 FT



**AREA 6**  
**MAH 1071 - BAYVIEW DR.**

SCALE: 3/8" = 1'-0"



PROPOSED CONDITION

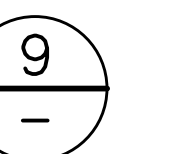
NOTE:  
1. CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

ESTIMATED MAH DEPTH: 7.7 FT

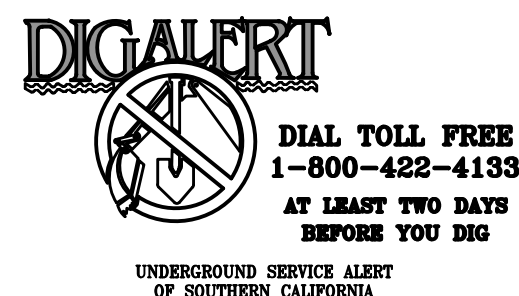


**AREA 6 EXTENDED**  
**MAH 1044 - LOMA DR.**

SCALE: 3/8" = 1'-0"



- NOTE:
- RIM TO INVERT DEPTHS ARE PROVIDED FOR EXISTING CONDITION.
  - CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND PROVIDE NEW RIM TO INVERT FOR EACH PIPE TO THE NEAREST HUNDREDTH.



REVISIONS		
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12/22/23  
DATE

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PUBLIC WORKS DEPARTMENT

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5-15-24 DATE

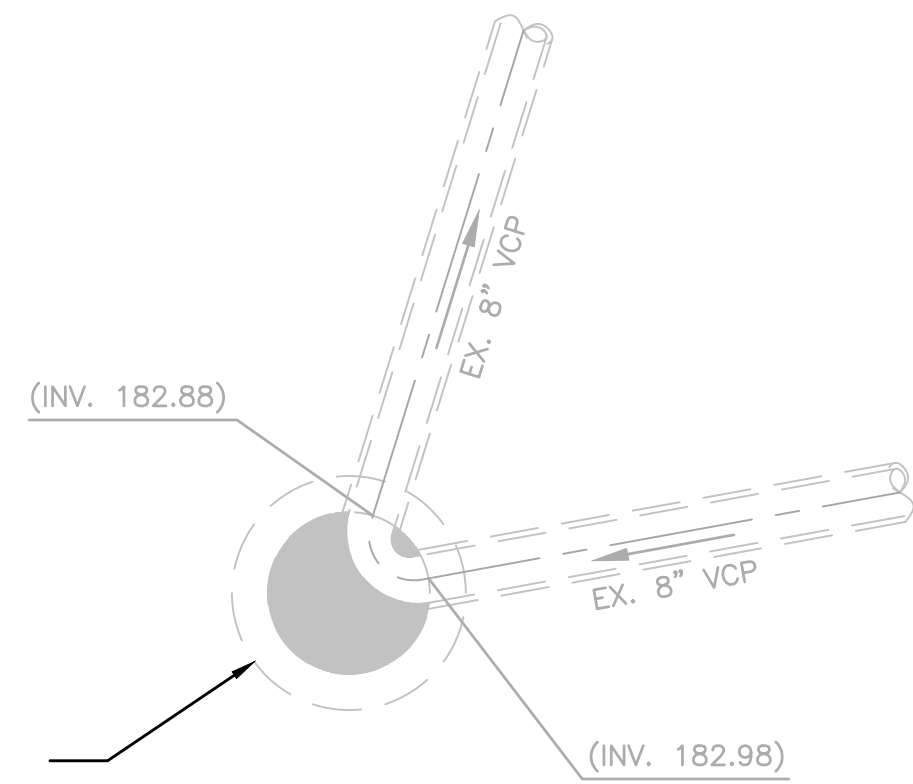
CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE DETAILS - 3/5

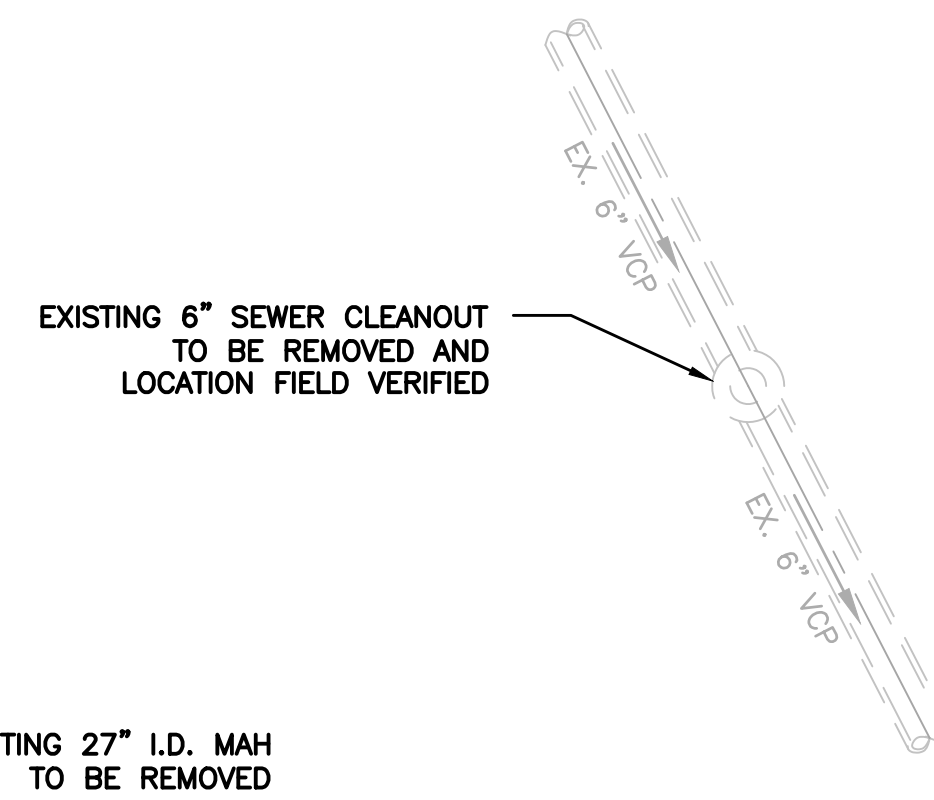
FILE NUMBER  
23-010

C-24

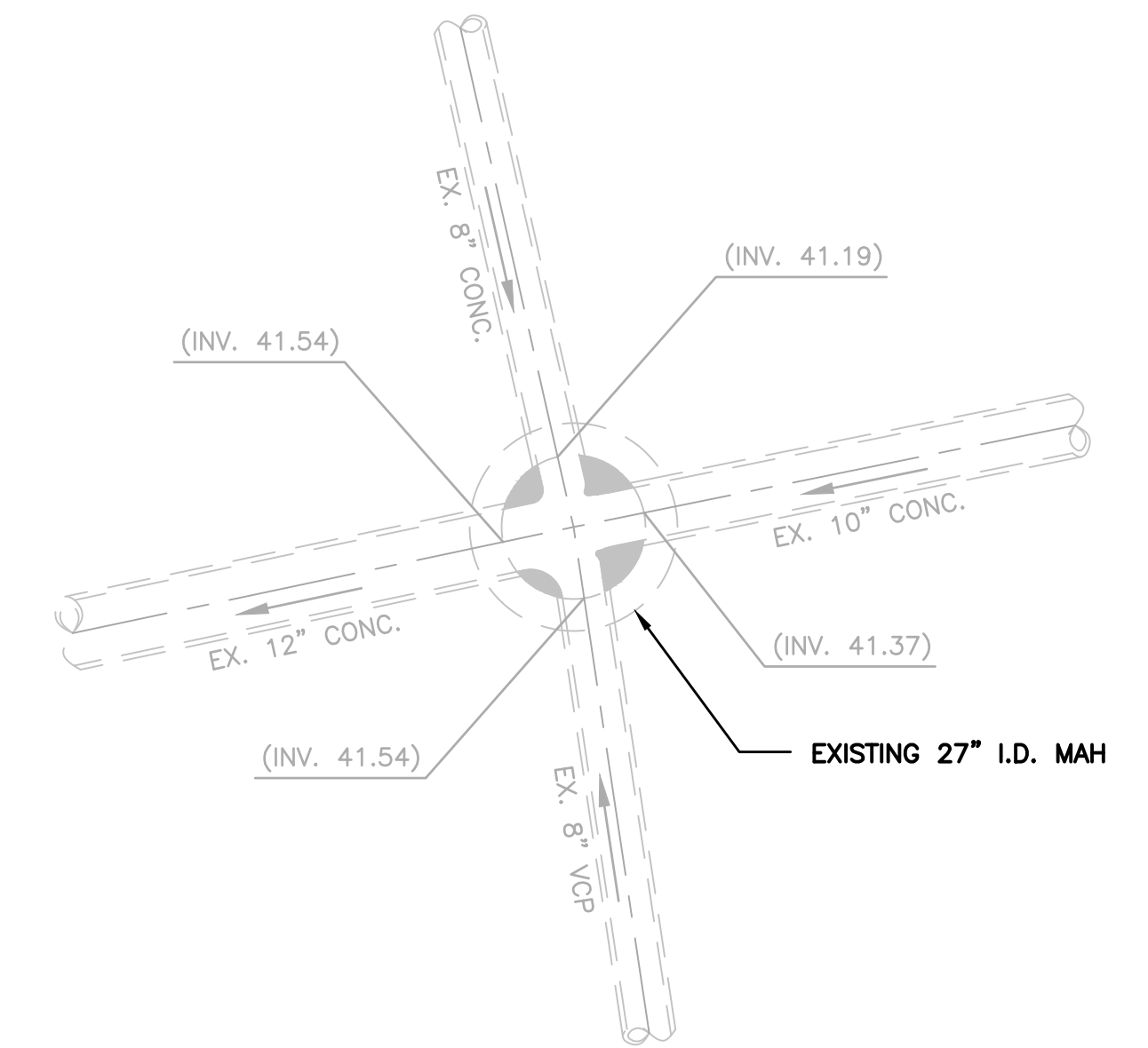
SHT. 29 OF 31



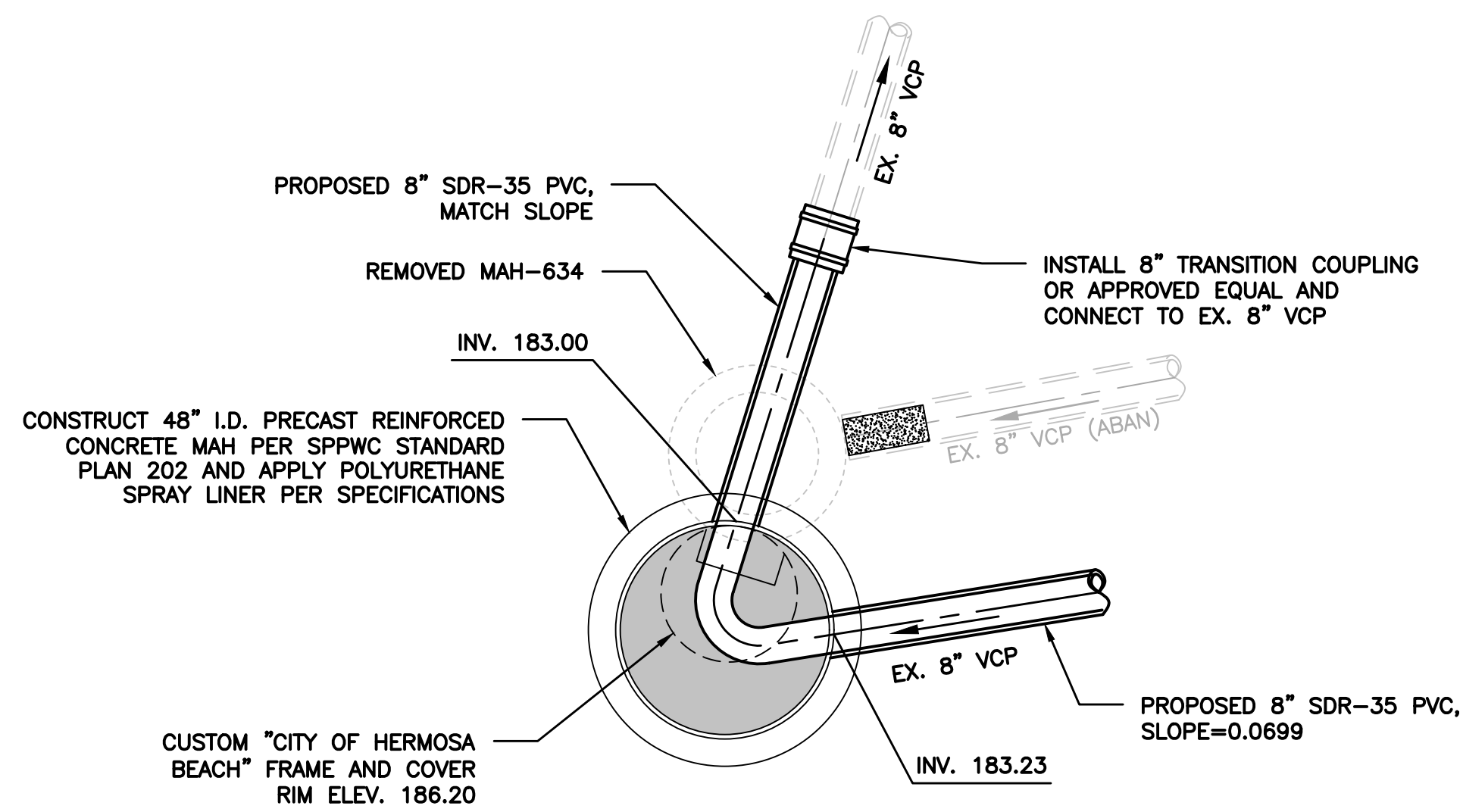
EXISTING CONDITION



EXISTING CONDITION

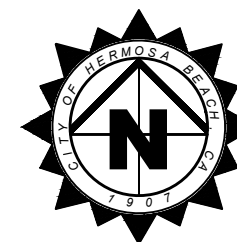


EXISTING CONDITION



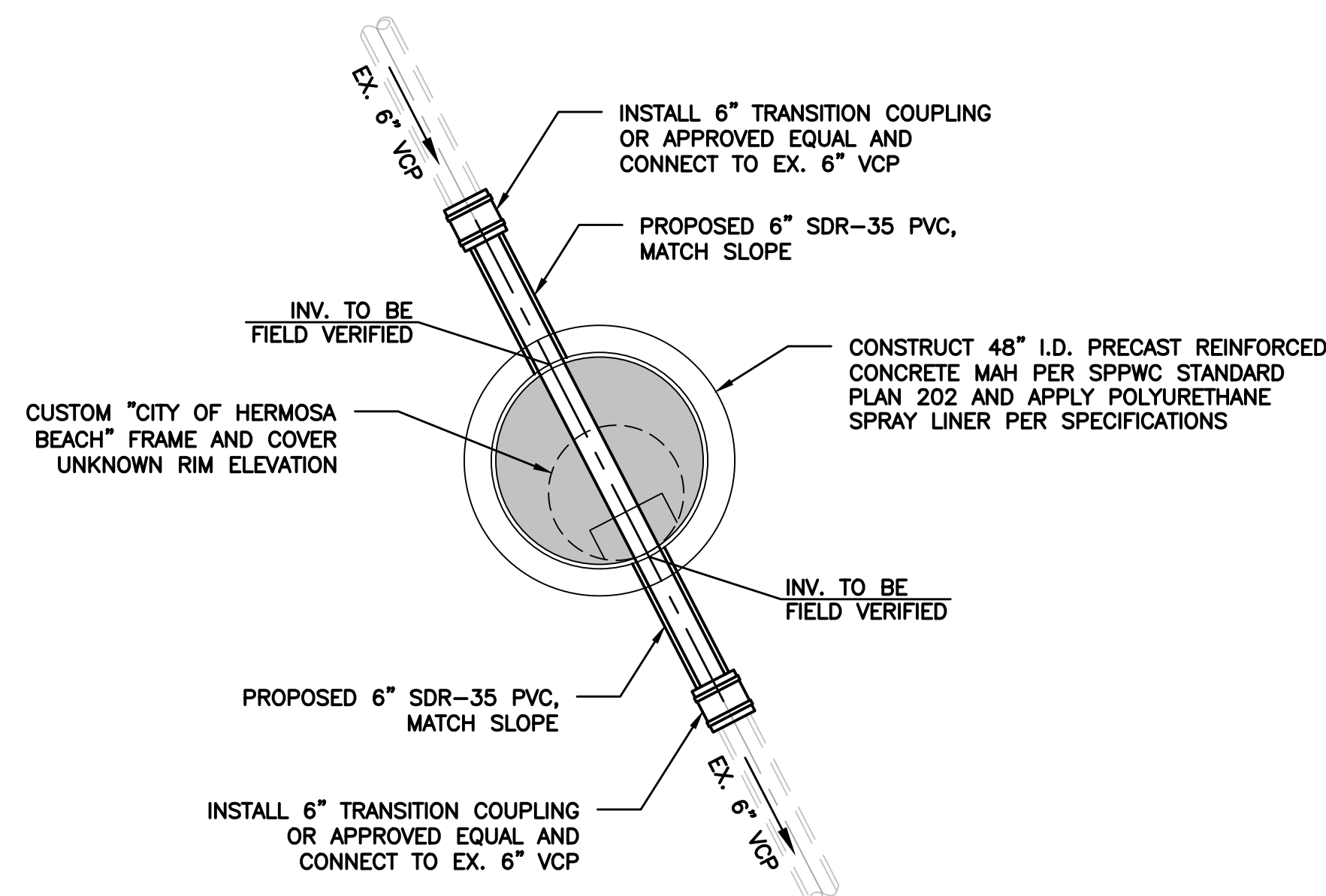
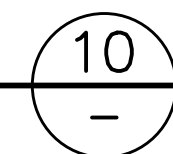
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 3.1 FT



**AREA 2**  
**MAH 634 - 10TH ST.**  
**PROP MAH NO. 11**

SCALE: 3/8" = 1'-0"



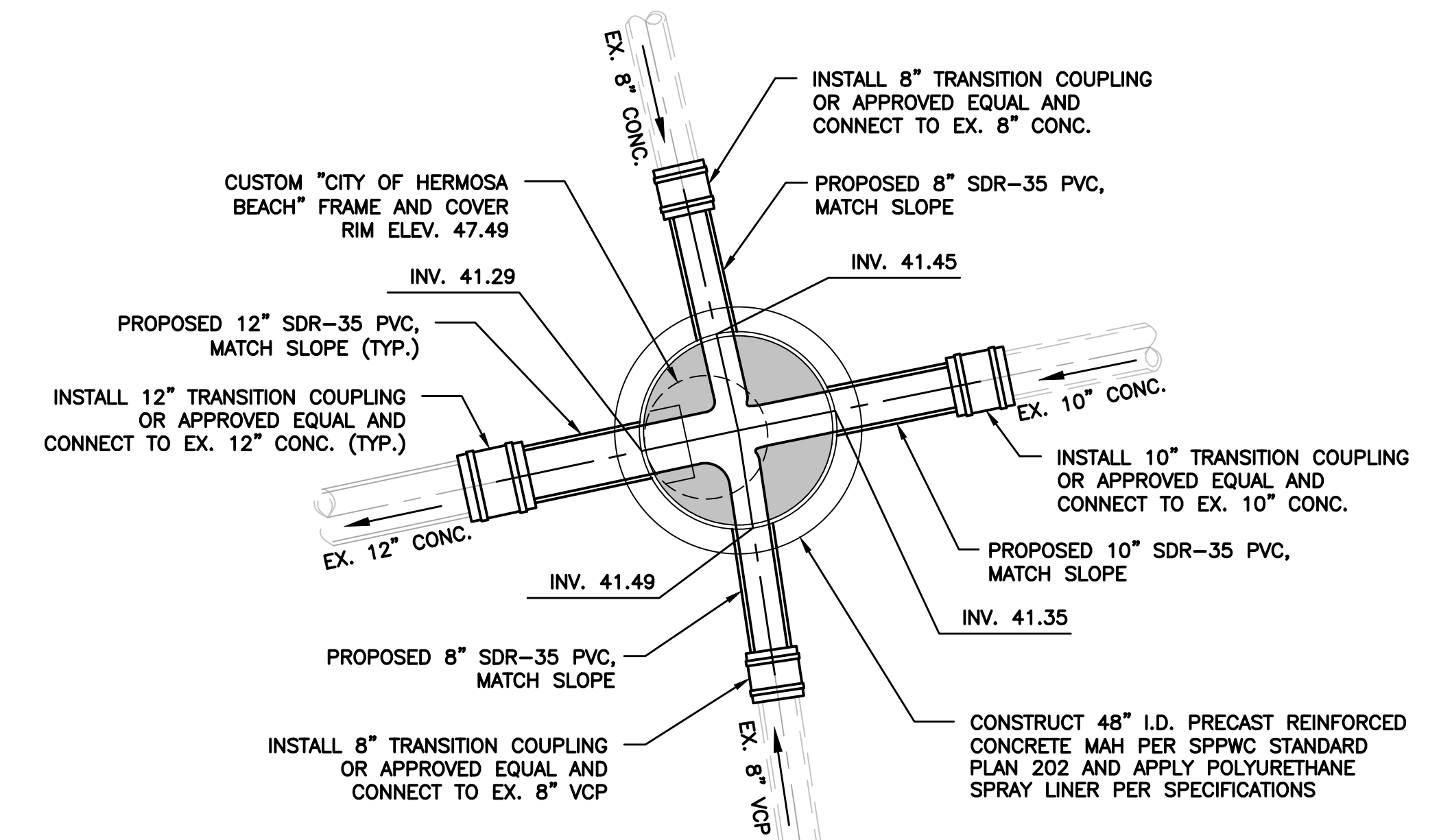
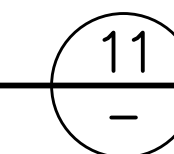
PROPOSED CONDITION

ESTIMATED MAH DEPTH: TO BE CONFIRMED IN FIELD



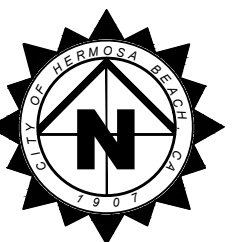
**AREA 6 EXTENDED**  
**CLEANOUT - 26TH ST.**  
**PROP MAH NO. 18**

SCALE: 3/8" = 1'-0"



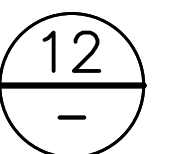
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 6.1 FT



**AREA 7**  
**MAH 0611 - ARDMORE AVE.**

SCALE: 3/8" = 1'-0"



**NOTE:**

- RIM TO INVERT DEPTHS ARE PROVIDED FOR EXISTING CONDITION.
- CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND PROVIDE NEW RIM TO INVERT FOR EACH PIPE TO THE NEAREST HUNDREDTH.



REVISIONS		
No.	DESCRIPTION	DATE

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DATE

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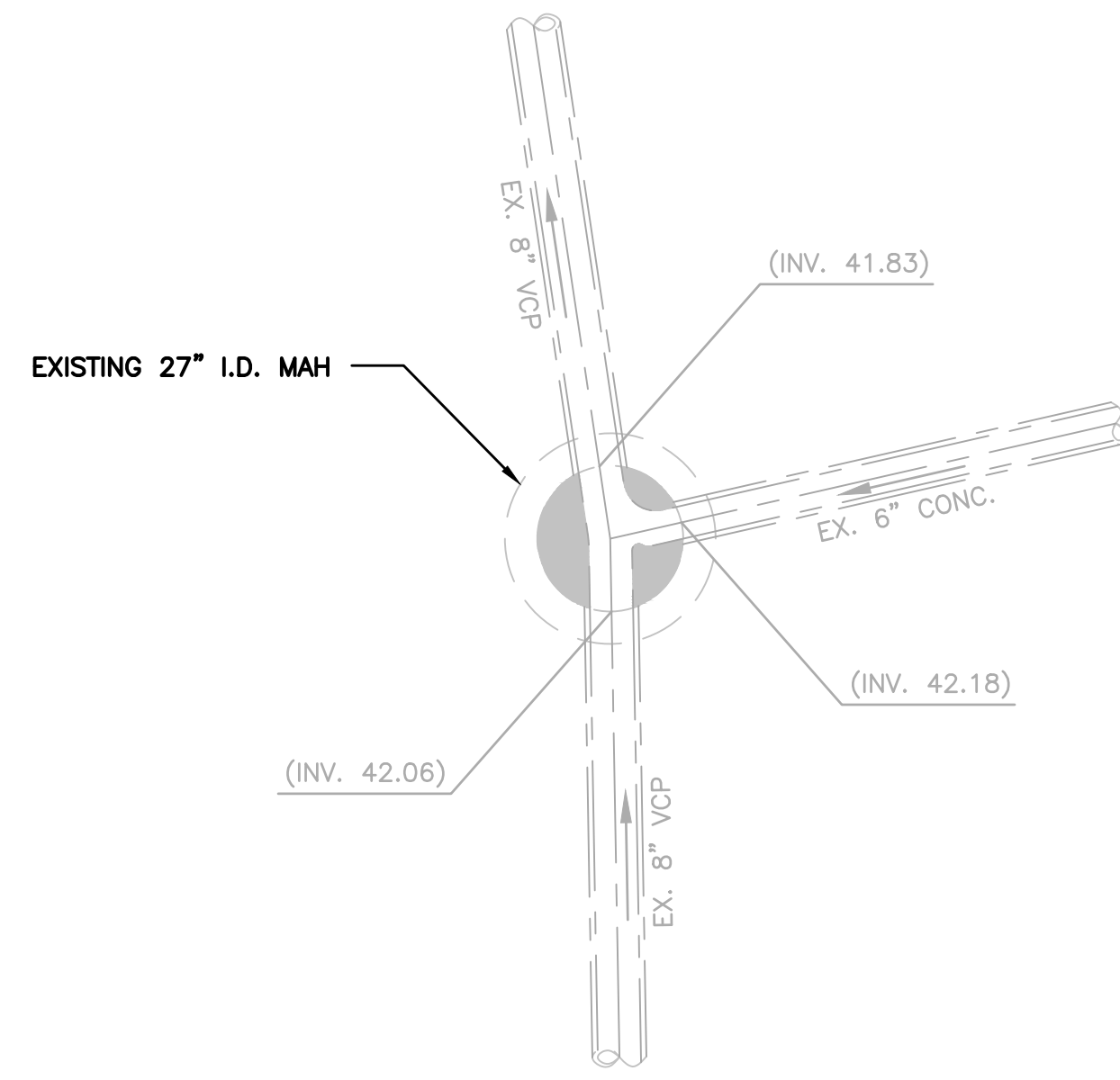
CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE DETAILS - 4/5

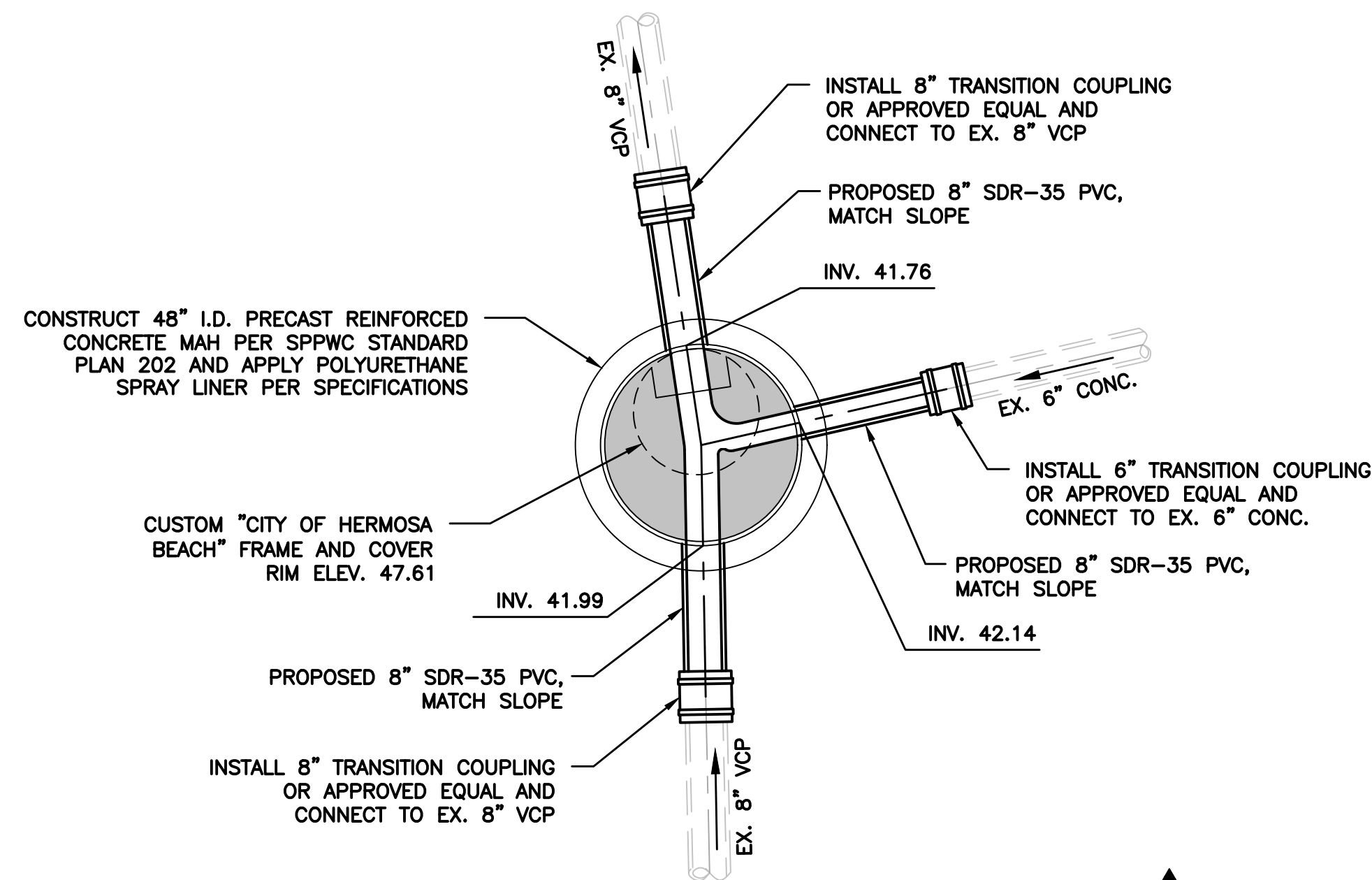
FILE NUMBER  
23-010

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EXISTING CONDITION



- NOTE:**
- CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND ADJUST SLOPE INVERT FOR INCREASED MANHOLE DIAMETER.

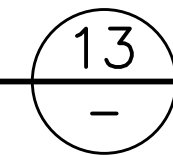
PROPOSED CONDITION

ESTIMATED MAH DEPTH: 5.6 FT



**AREA 7**  
**MAH 0697 - ARDMORE AVE.**

SCALE: 3/8" = 1'-0"



**NOTE:**

- RIM TO INVERT DEPTHS ARE PROVIDED FOR EXISTING CONDITION.
- CONTRACTOR SHALL MATCH EXISTING PIPE SLOPE AND PROVIDE NEW RIM TO INVERT FOR EACH PIPE TO THE NEAREST HUNDREDTH.



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5-15-24 DATE

CIP 421  
ANNUAL SEWER IMPROVEMENTS PHASE 2

MANHOLE DETAILS - 5/5

FILE NUMBER  
23-010

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