

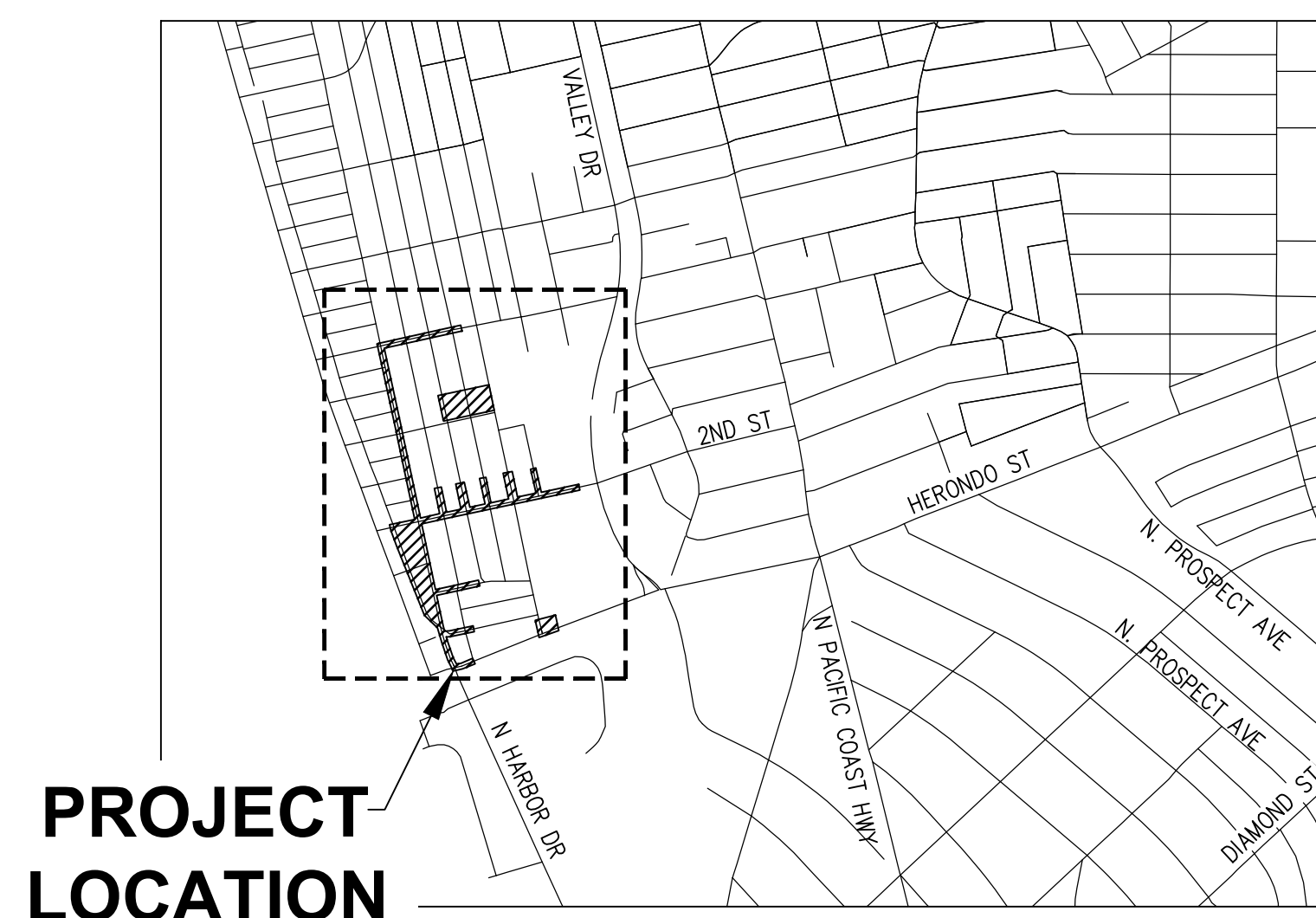
CITY OF HERMOSA BEACH

CONSTRUCTION PLANS

FOR

CIP 164 HERMOSA AVENUE GREEN STREET (PART OF BEACH CITIES GREEN STREETS)

SHEET NO.	DRAWING NO.	SHEET TITLE
1	T-1	TITLE SHEET
2	C-2	GENERAL NOTES
3	C-3	CIVIL PLANS
4	C-4	CIVIL PLANS
5	C-5	CIVIL PLANS
6	C-6	CIVIL PLANS
7	C-7	CIVIL PLANS
8	C-8	CIVIL PLANS
9	C-9	CIVIL PLANS
10	C-10	PERVIOUS CONCRETE DETAILS 1
11	C-11	PERVIOUS CONCRETE DETAILS 2
12	C-12	BORING LOGS
13	EC-1	EROSION CONTROL PLAN
14	EC-2	EROSION CONTROL PLAN
15	EC-3	EROSION CONTROL PLAN
16	EC-4	EROSION CONTROL PLAN
17	EC-5	EROSION CONTROL PLAN
18	EC-6	EROSION CONTROL PLAN
19	EC-7	EROSION CONTROL PLAN
20	EC-8	EROSION CONTROL PLAN
21	L-1	LANDSCAPE PLAN
22	C-13	TRAFFIC CONTROL PLAN
23	C-14	TRAFFIC CONTROL PLAN



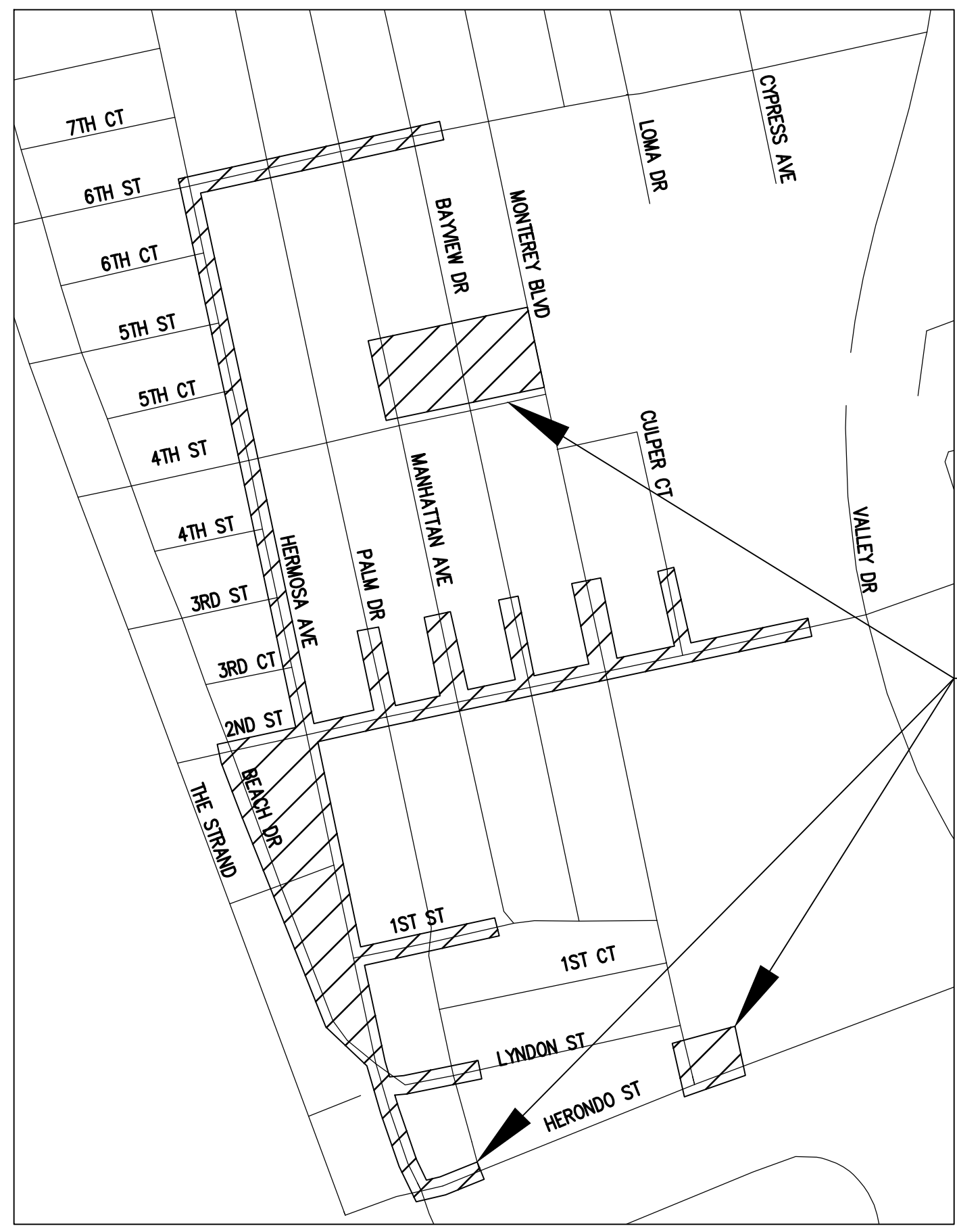
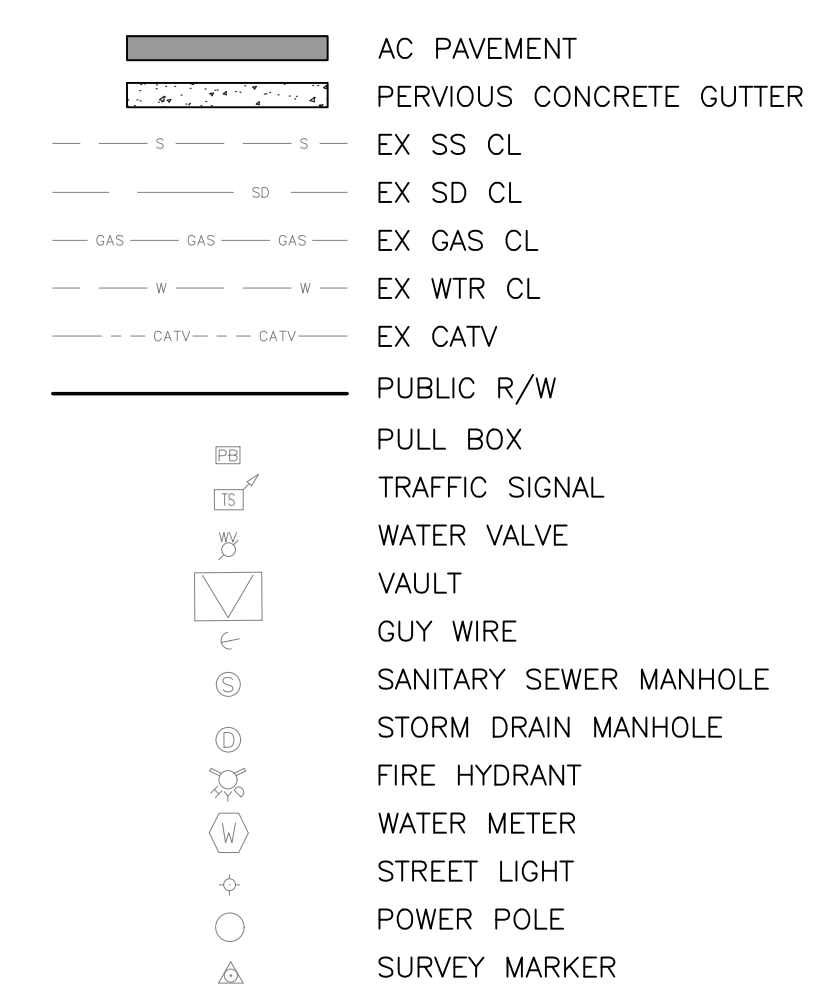
PROJECT LOCATION
INDICATES AREA SHOWN ON LOCATION MAP

VICINITY MAP
SCALE: 1"=1000'

ABBREVIATIONS

AVE	AVENUE	PB	PULL BOX
BLVD	BOULEVARD	PCC	PORTLAND CEMENT CONCRETE
BMPs	BEST MANAGEMENT PRACTICES	PCMS	PORTABLE CHANGEABLE MESSAGE SIGNS
CASQA	CALIFORNIA STORMWATER QUALITY ASSOCIATION	PD	POLICE DEPARTMENT
CL	CENTERLINE	PVC	POLYVINYL CHLORIDE PIPE
COR	CORNER	QSD	QUALIFIED SWPPP DEVELOPER
CT	COURT	QSP	QUALIFIED SWPPP PRACTITIONER
DR	DRIVE	ROW (R/W)	RIGHT OF WAY
E	EASTING	SD	STORM DRAIN
EX./EXIST	EXISTING	SDMH	STORM DRAIN MANHOLE
KSI	KIPS PER SQUARE INCH	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
LACPW	LOS ANGELES COUNTY PUBLIC WORKS	SS	SANITARY SEWER
MIN	MINIMUM	STD	STANDARD
MUTCD	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	TC	TOP OF CURB
N	NORTHING	TS	TRAFFIC SIGNAL
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	TEMP	TEMPORARY
OHE	OVERHEAD ELECTRIC	TYP.	TYPICAL
		WV	WATER VALVE

LEGEND / HATCH



PROJECT LOCATION

LOCATION MAP
SCALE: 1"=250'



UTILITY COMPANIES

UTILITY:	CONTACT PERSON:	PHONE:
AT&T DISTRIBUTION.....	MEREDITH HOUSTON.....	(310) 515-4376
AT&T TCA.....	MARIZA GUZMAN.....	(213) 787-9996
ATHENS SERVICES.....	JOHNNIE PERKINS.....	(888) 336-6100
(STREET SWEEPING AND REFUSE)		
CALIFORNIA WATER SERVICE.....	FRANK SCOTTY.....	(310) 257-1400
(WATER SYSTEM)	ROB OLSEN.....	(310) 257-1428
CROWN CASTLE.....	REBECCA CALDWELL.....	(724) 416-9917
CHARTER COMMUNICATIONS.....	BRAD BROULLIRE.....	(310) 371-7469
CITY OF HERMOSA BEACH.....	PUBLIC WORKS.....	(310) 318-0214
	POLICE AND FIRE DISPATCH.....	(310) 524-2750
SOUTHERN CALIFORNIA GAS	JASON JONES.....	(310) 687-2026
	BILL STEWART.....	(310) 605-7837
SOUTHERN CALIFORNIA EDISON/.....	BRYAN SMALL.....	(909) 329-9445
SCE TRANS TELECOM.....		(310) 783-9332
TIME WARNER CABLE.....	DEAN BOYERS.....	(972) 729-6322
	DAN HAYES.....	(310) 793-4159
FRONTIER (VERIZON).....	JERRY RUIZ.....	(909) 469-6343
LOS ANGELES COUNTY.....	FLOOD MAINTENANCE.....	(562) 861-0316
	PUBLIC WORKS.....	(626) 458-3109
RTI INFRASTRUCTURE.....	CHRIS BRUNGARDT.....	(916) 949-9141
WEST MUNICIPAL BASIN WATER DISTRICT.....	FRANK FUCHS.....	(310) 660-6255 OR
		(310) 217-2411
UNDERGROUND SERVICE ALERT.....	DIAL 811.....	(800) 227-2600

BASIS OF BEARINGS

COORDINATES ARE BASED UPON C.C.S. 83, STATE PLANE COORDINATE SYSTEM, ZONE 5.
EPOCH 2017.5
COMBINATION FACTOR IS 1.00004815

BENCHMARK

CITY OF TORRANCE QUAD
BM: BY QY 8379; 2013 ADJ
NAVD 88 ELEVATION =(14.158) FEET
FC TAG IN E. CB 3.3FT N/O BCR @ NE COR HERMOSA AVE & 2ND ST

BENCH MARK:
No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG

REVISIONS		
No.	DESCRIPTION	DATE



PLANS PREPARED BY:

1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com

Larry B. Tortuya
LARRY B. TORTUYA, 71502
9/13/2024
DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:

Signed by:
John Oskrout
JOHN OSKROUT, CITY ENGINEER
11/05/2024 | 13:09 PST
DATE

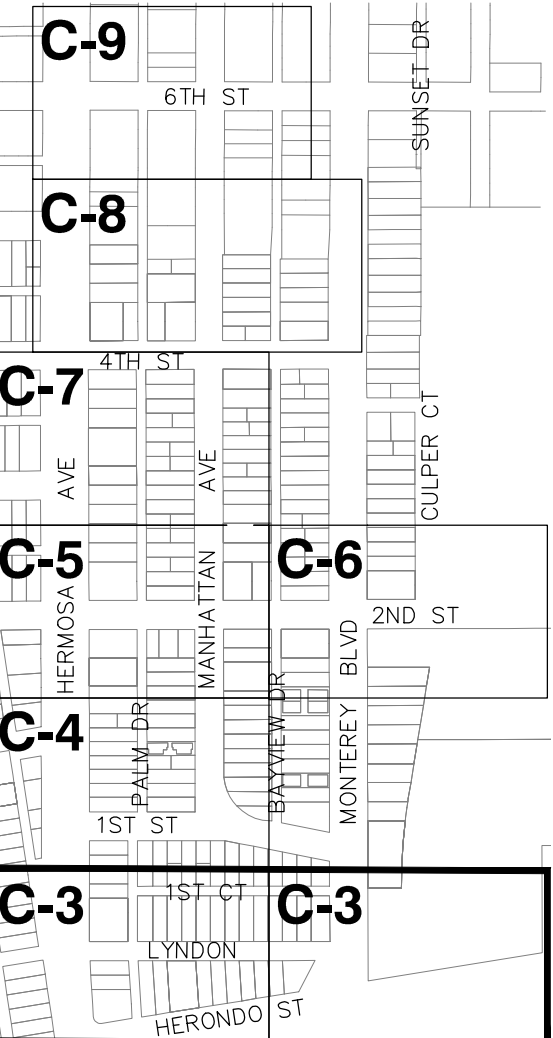
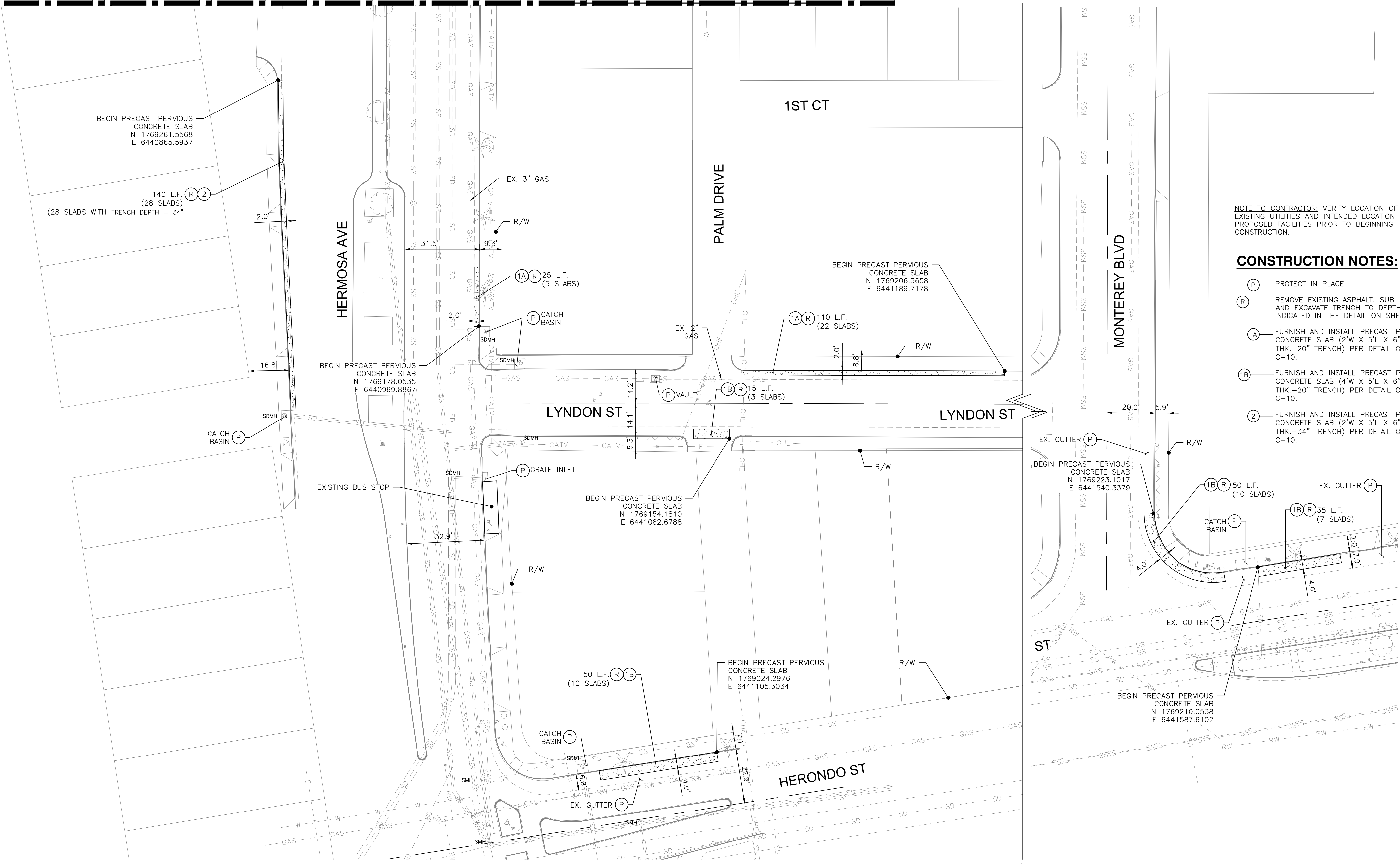
CIP 164
HERMOSA AVE
GREEN STREET PROJECT
TITLE SHEET

FILE NUMBER
23-011

T-1

SHT. 1 OF 23

MATCH LINE - SEE SHEET C-4

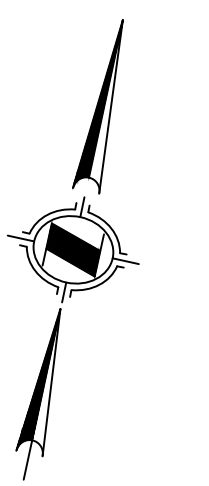


NOTE TO CONTRACTOR: VERIFY LOCATION OF EXISTING UTILITIES AND INTENDED LOCATION FOR PROPOSED FACILITIES PRIOR TO BEGINNING CONSTRUCTION.

CONSTRUCTION NOTES:

- (P) PROTECT IN PLACE
- (R) REMOVE EXISTING ASPHALT, SUB-BASE, AND EXCAVATE TRENCH TO DEPTHS INDICATED IN THE DETAIL ON SHEET C-10.
- (1A) FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE SLAB (2'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.
- (1B) FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE SLAB (4'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.
- (2) FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE SLAB (2'W X 5'L X 6" THK.-34" TRENCH) PER DETAIL ON SHEET C-10.

KEYMAP



BENCH MARK:
No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE

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SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com

LARRY B. TORTUYA, 71502
DATE 9/13/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:

Signed by:
John Ostrowi
JOHN OSTROWI, CIVIL ENGINEER
DATE 11/05/2024 | 13:09 PST

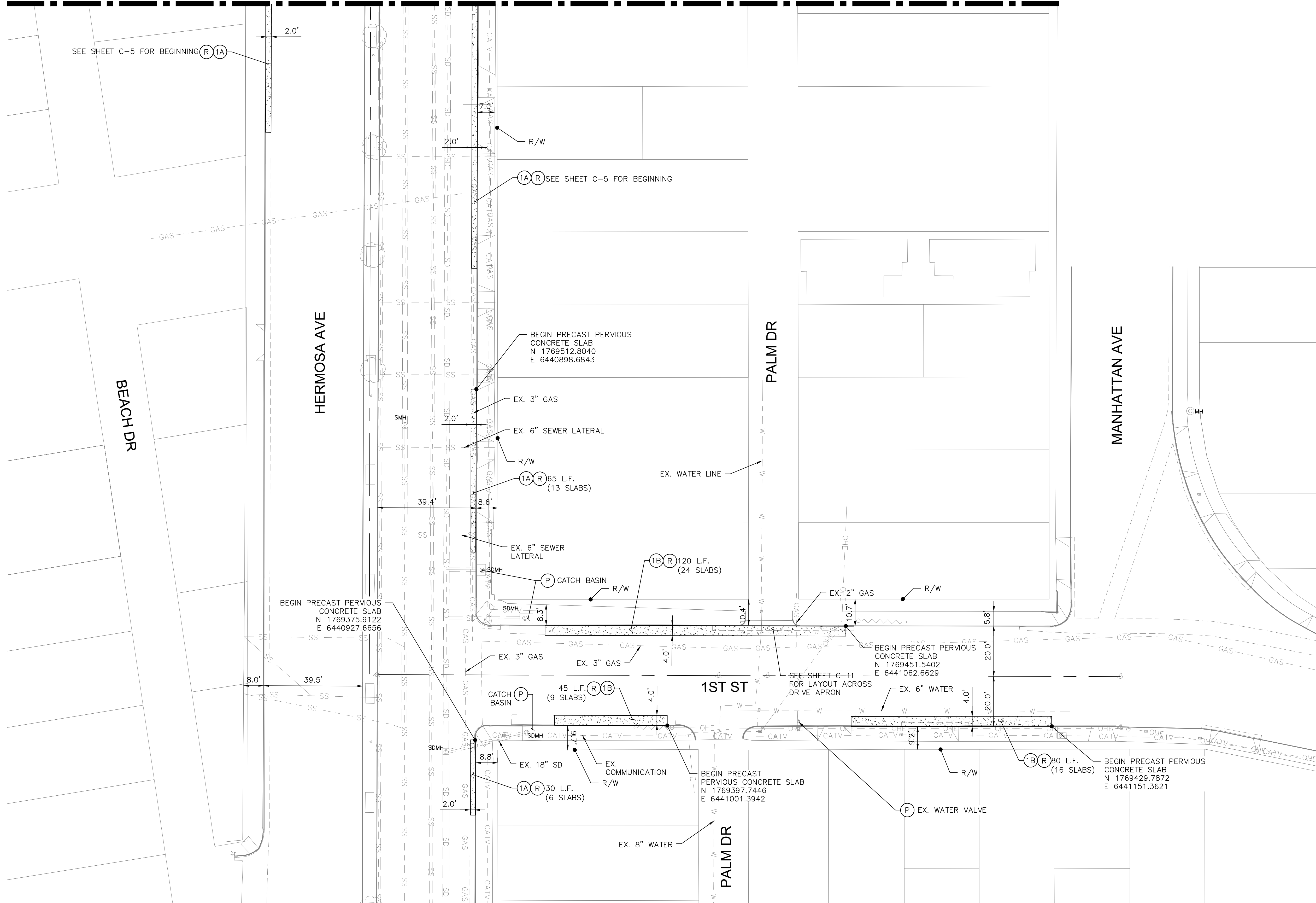
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HERMOSA AVE
GREEN STREET PROJECT
CIVIL PLANS

FILE NUMBER
23-011

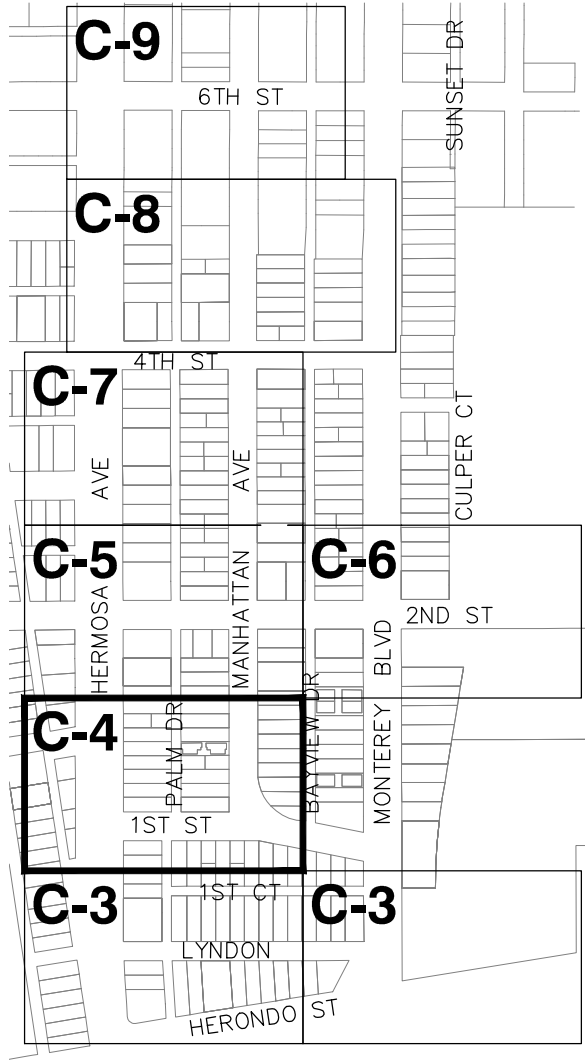
C-3

SHT. 3 OF 23

MATCH LINE - SEE SHEET C-5



MATCH LINE - SEE SHEET C-3

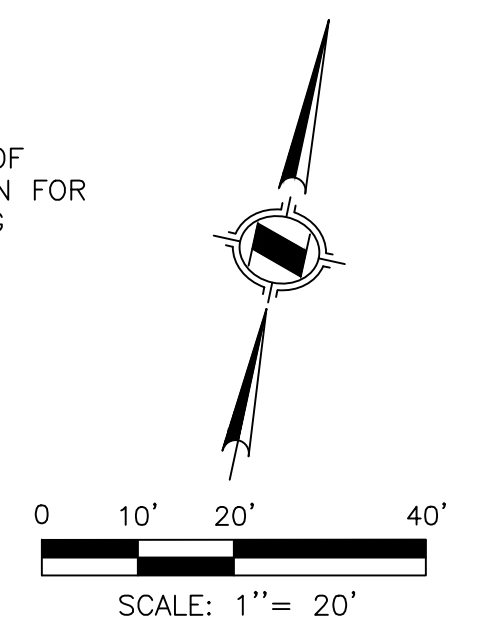


KEYMAP

CONSTRUCTION NOTES:

- (P) — PROTECT IN PLACE
- (R) — REMOVE EXISTING ASPHALT, SUB-BASE, AND EXCAVATE TRENCH TO DEPTHS INDICATED IN THE DETAIL ON SHEET C-10.
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- (1B) — FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE SLAB (4'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.

NOTE TO CONTRACTOR: VERIFY LOCATION OF EXISTING UTILITIES AND INTENDED LOCATION FOR PROPOSED FACILITIES PRIOR TO BEGINNING CONSTRUCTION.



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No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE

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811
Know what's below.
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REVISIONS		
No.	DESCRIPTION	DATE

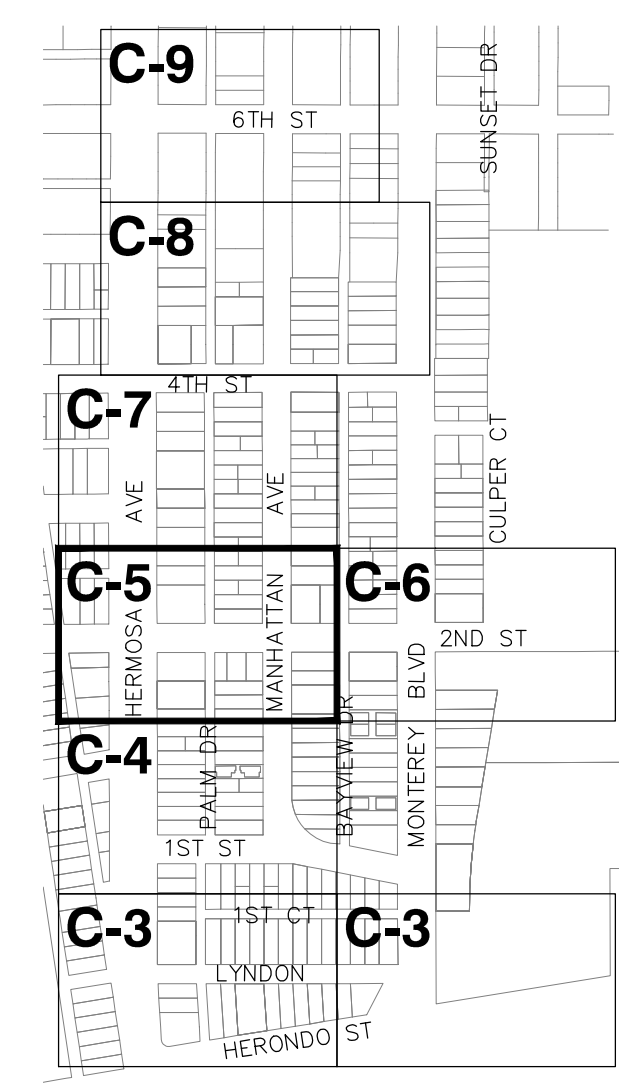
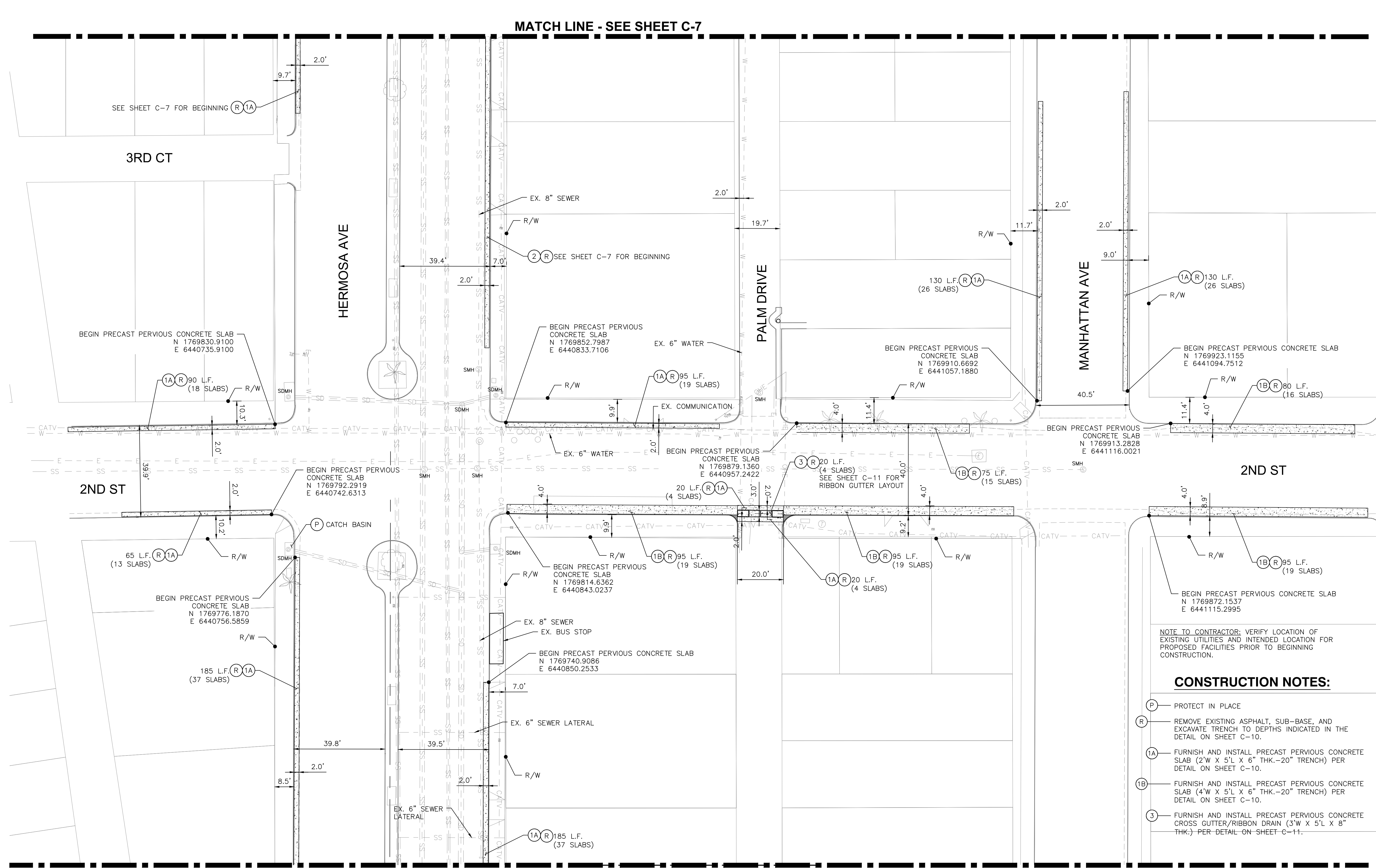
PLANS PREPARED BY:
 CW
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com

REGISTERED PROFESSIONAL ENGINEER
 LARRY B. TORTUYA, 71502
DATE: 9/13/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:
 Signed by: **John Oskoui**
JOHN OSKOUP, CITY ENGINEER
DATE: 11/05/2024 | 13:09 PST

CIP 164
HERMOSA AVE
GREEN STREET PROJECT
CIVIL PLANS

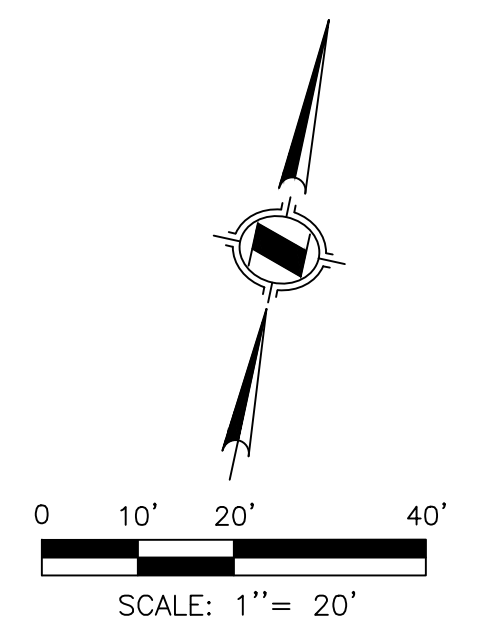
FILE NUMBER
23-011
C-4
SHT. 4 OF 23



NOTE TO CONTRACTOR: VERIFY LOCATION OF EXISTING UTILITIES AND INTENDED LOCATION FOR PROPOSED FACILITIES PRIOR TO BEGINNING CONSTRUCTION.

CONSTRUCTION NOTES:

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- (1A) - FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE SLAB (2'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.
- (1B) - FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE SLAB (4'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.
- (3) - FURNISH AND INSTALL PRECAST PERVIOUS CONCRETE CROSS GUTTER/RIBBON DRAIN (3'W X 5'L X 8" THK.) PER DETAIL ON SHEET C-11.



BENCH MARK:
No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE

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PLANS PREPARED BY:
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1561 E. ORANGETHORPE AVE. SUITE 240 FULLERTON, CA 92831 (714) 526-7500 www.cwecorp.com

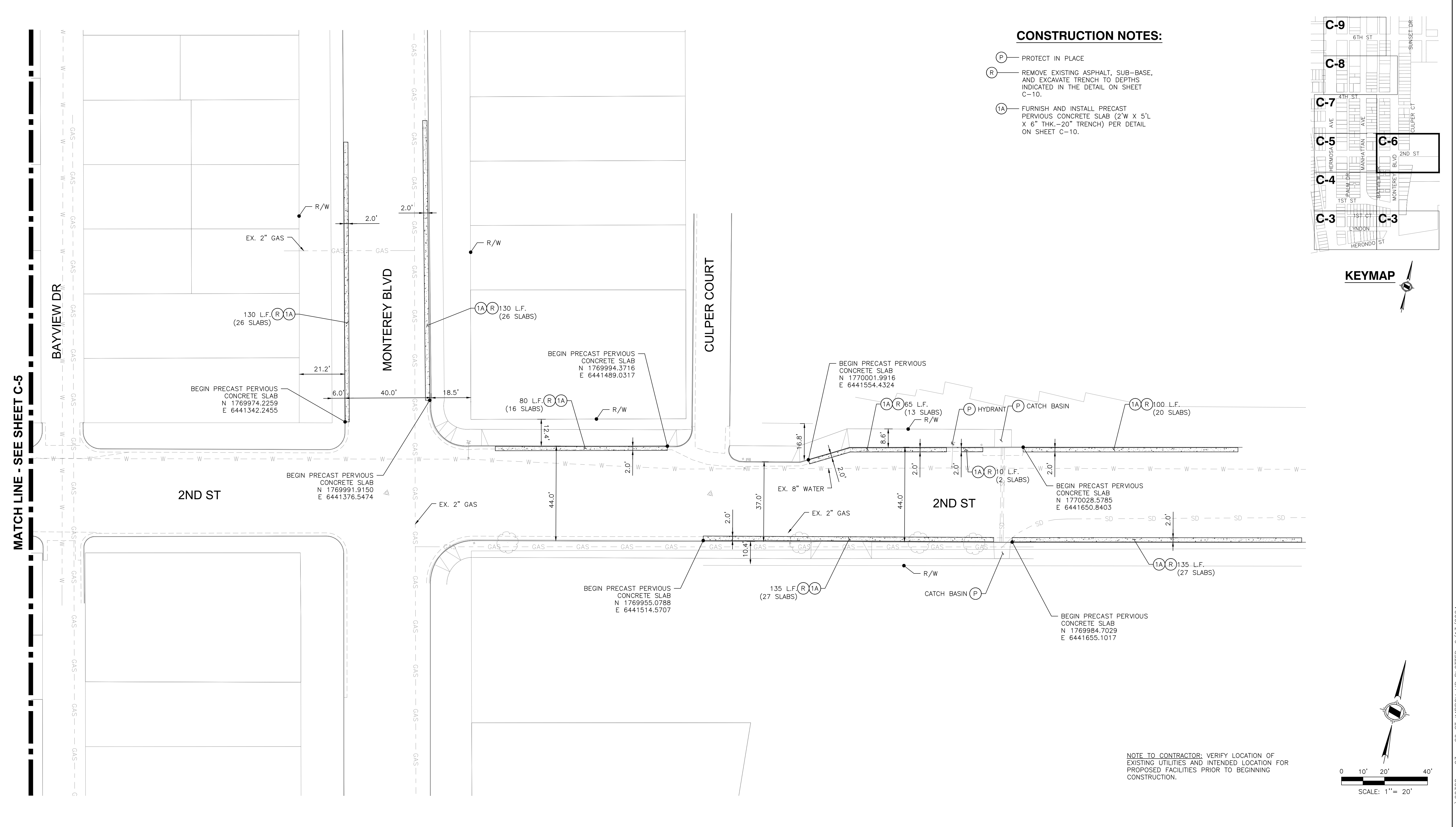
9/13/2024

LARRY B. TORTUYA, 71502

CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:
Signed by: *John Askani*
JOHN ASKANI, REGISTERED PROFESSIONAL ENGINEER

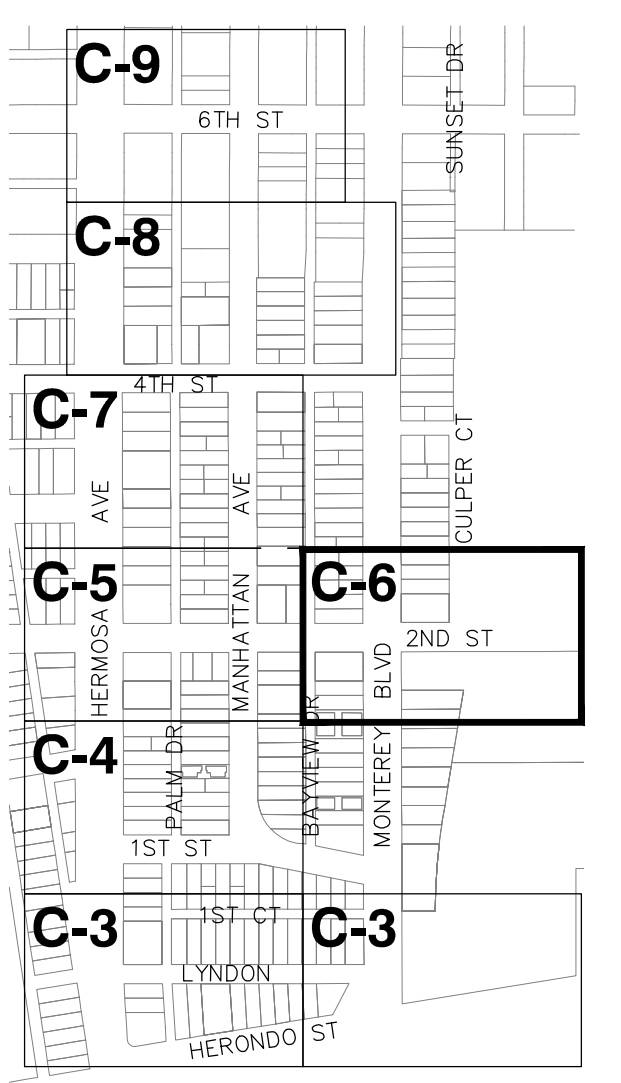
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HERMOSA AVE
GREEN STREET PROJECT
CIVIL PLANS

FILE NUMBER
23-011
C-5
SHT. 5 OF 23



CONSTRUCTION NOTES:

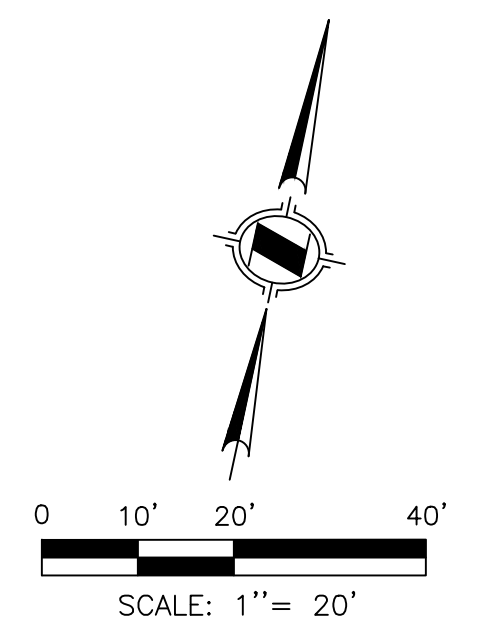
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KEYMAP



NOTE TO CONTRACTOR: VERIFY LOCATION OF EXISTING UTILITIES AND INTENDED LOCATION FOR PROPOSED FACILITIES PRIOR TO BEGINNING CONSTRUCTION.



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PLANS PREPARED BY:

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 SUITE 240
 FULLERTON, CA 92831
 (714) 526-7500
 www.cwecorp.com

LARRY B. TORTUYA, 71502
 DATE 9/13/2024

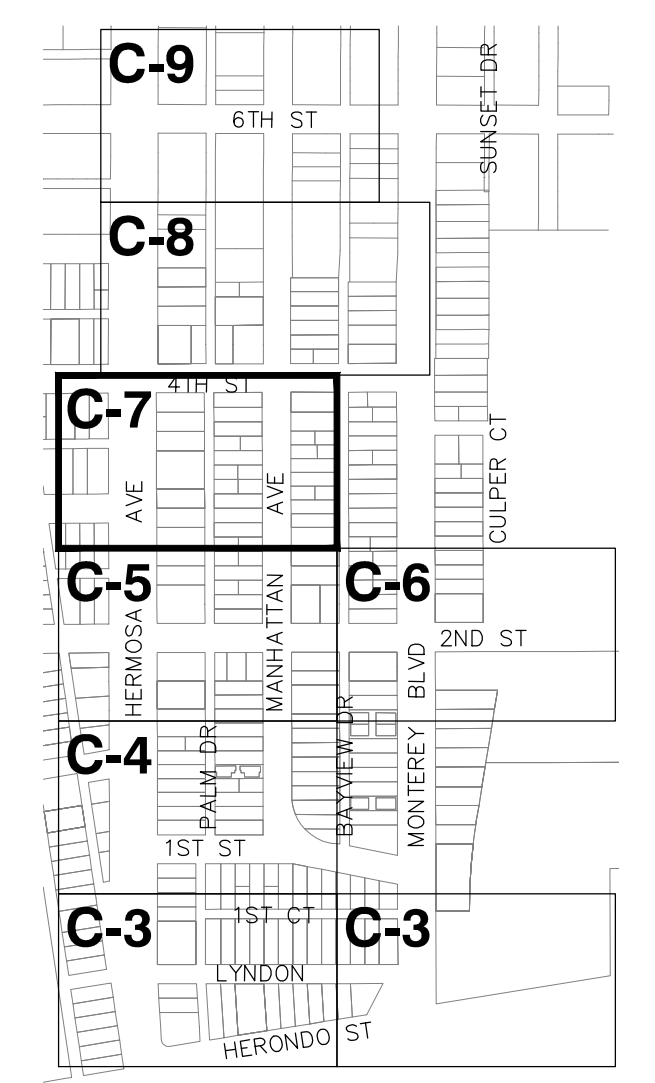
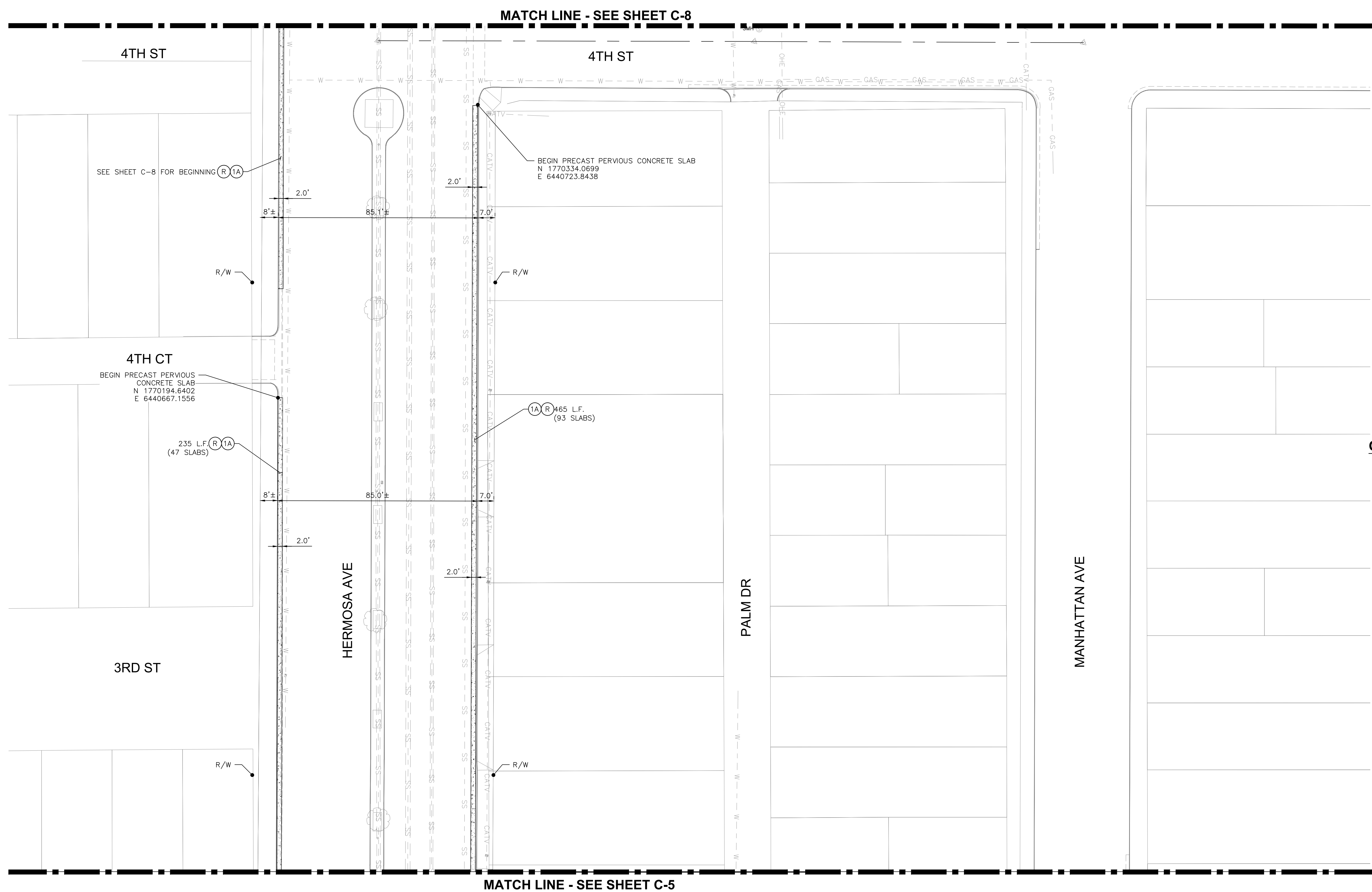
CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:
 Signed by: *John Pskowi*
 JOHN PSKOWI, 20660 PINE...
 CIVIL ENGINEER
 DATE 11/05/2024 | 13:09 PST

CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 CIVIL PLANS

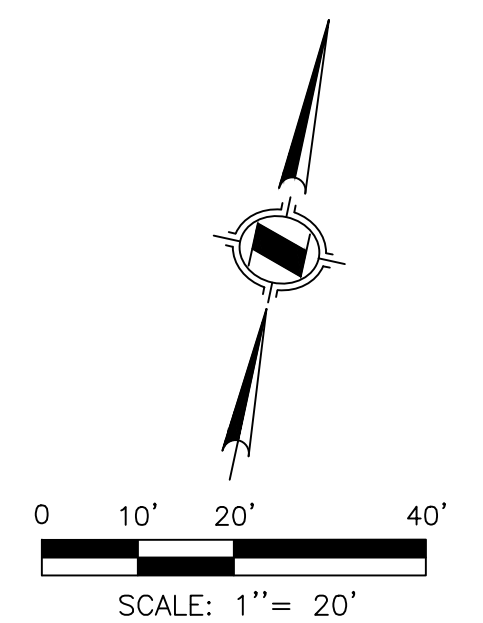
FILE NUMBER
 23-011

C-6
 SHT. 6 OF 23



- CONSTRUCTION NOTES:**
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REVISIONS		
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PLANS PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com

LARRY B. TORTUYA, 71502

9/13/2024
DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

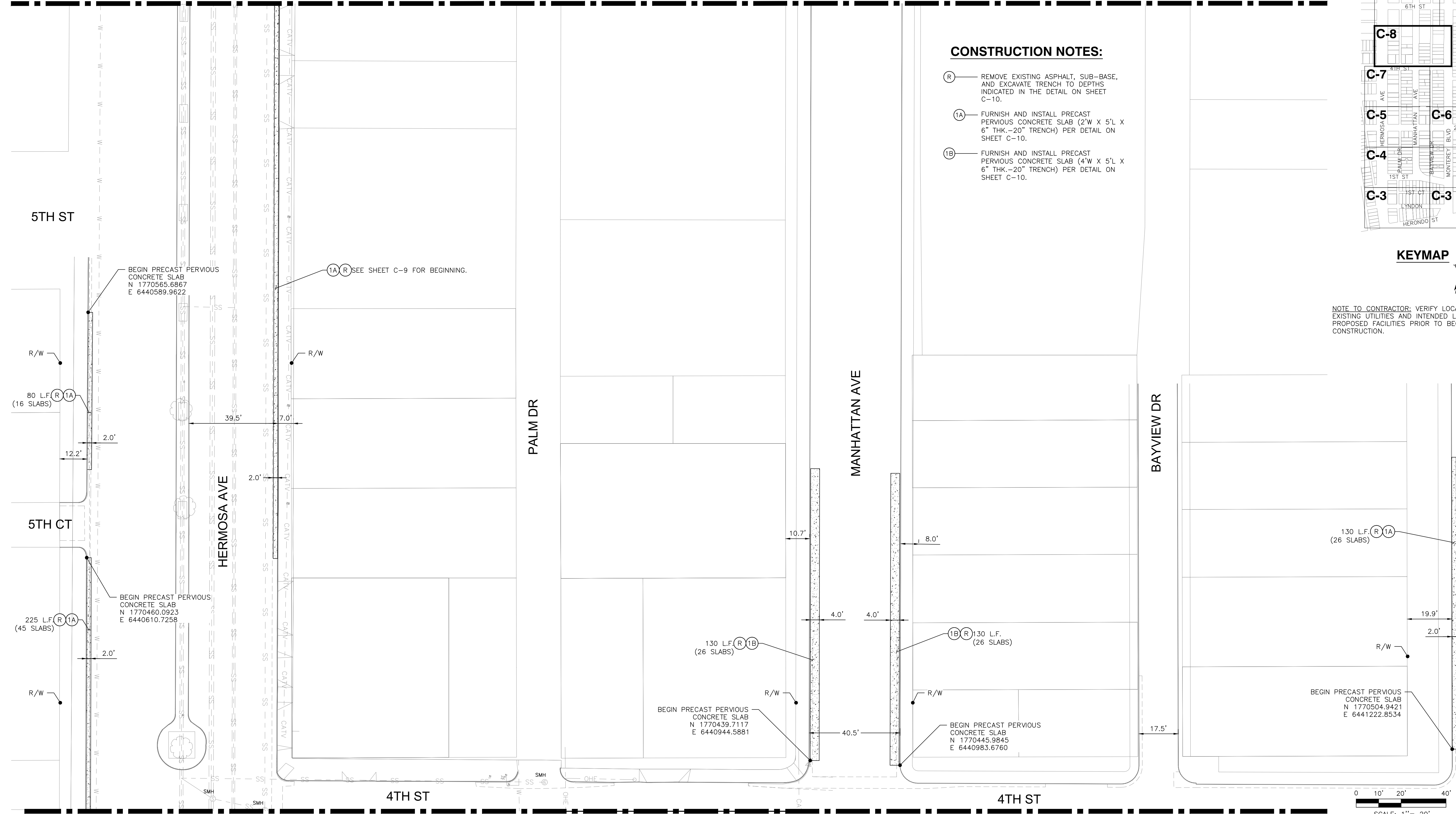
RECOMMENDED BY:
John Ostrowi
JOHN OSTROWI, 60266041
DATE

CIP 164
HERMOSA AVE
GREEN STREET PROJECT
CIVIL PLANS

FILE NUMBER
23-011

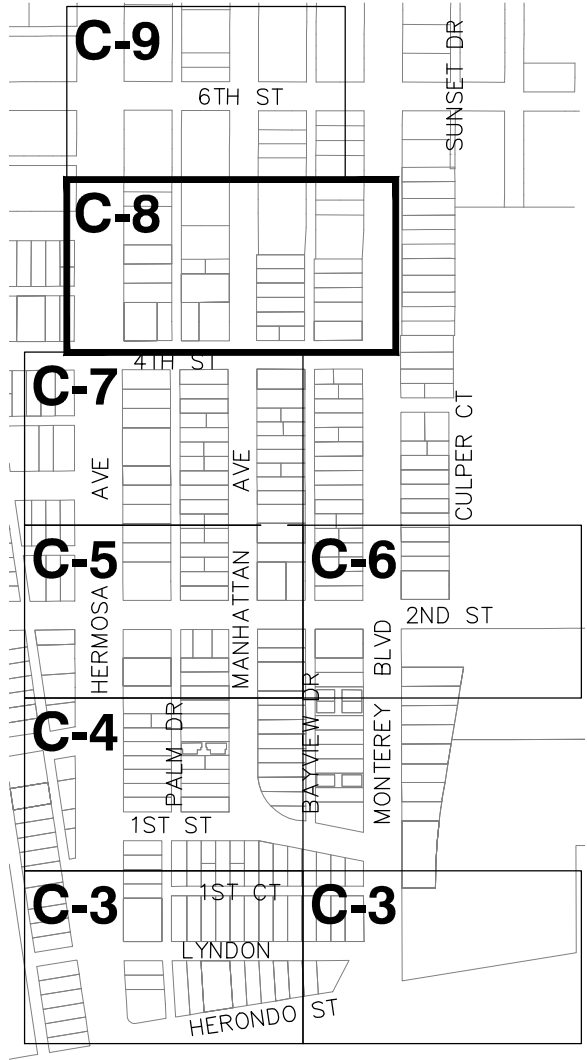
C-7
SHT. 7 OF 23

MATCH LINE - SEE SHEET C-9



CONSTRUCTION NOTES:

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KEYMAP

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MATCH LINE - SEE SHEET C-7

BENCH MARK:
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LARRY B. TORTUYA, 71502

9/13/2024

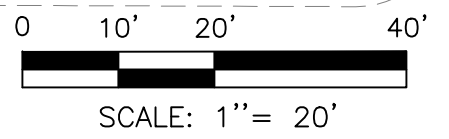
CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:

John Ostrowi, CIVIL ENGINEER

11/05/2024 | 13:09 PST

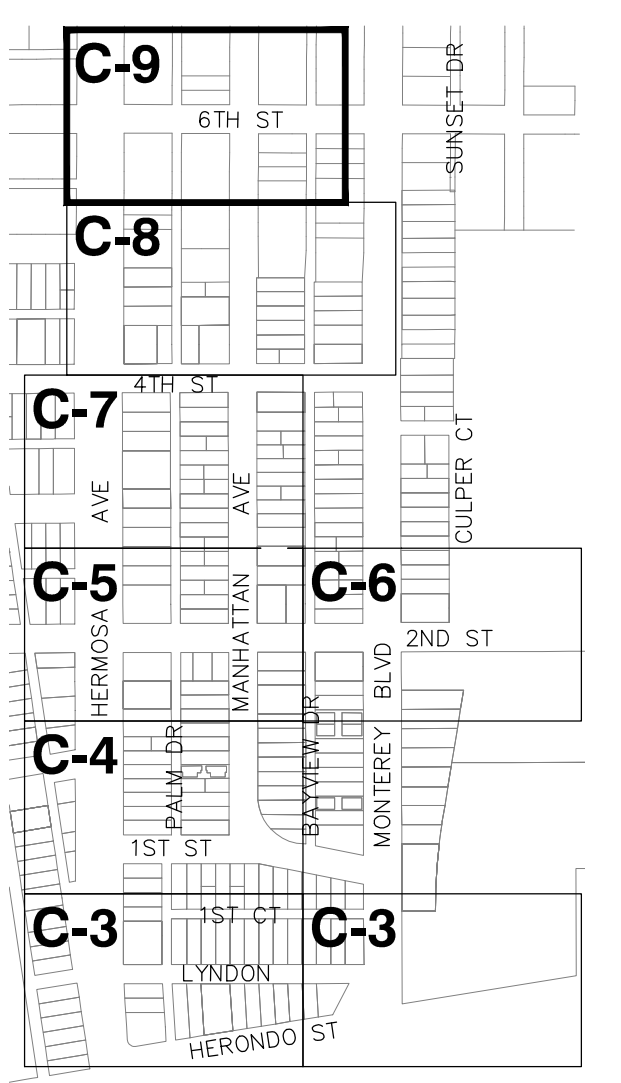
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HERMOSA AVE
GREEN STREET PROJECT
CIVIL PLANS

FILE NUMBER
23-011
C-8
SHT. 8 OF 23

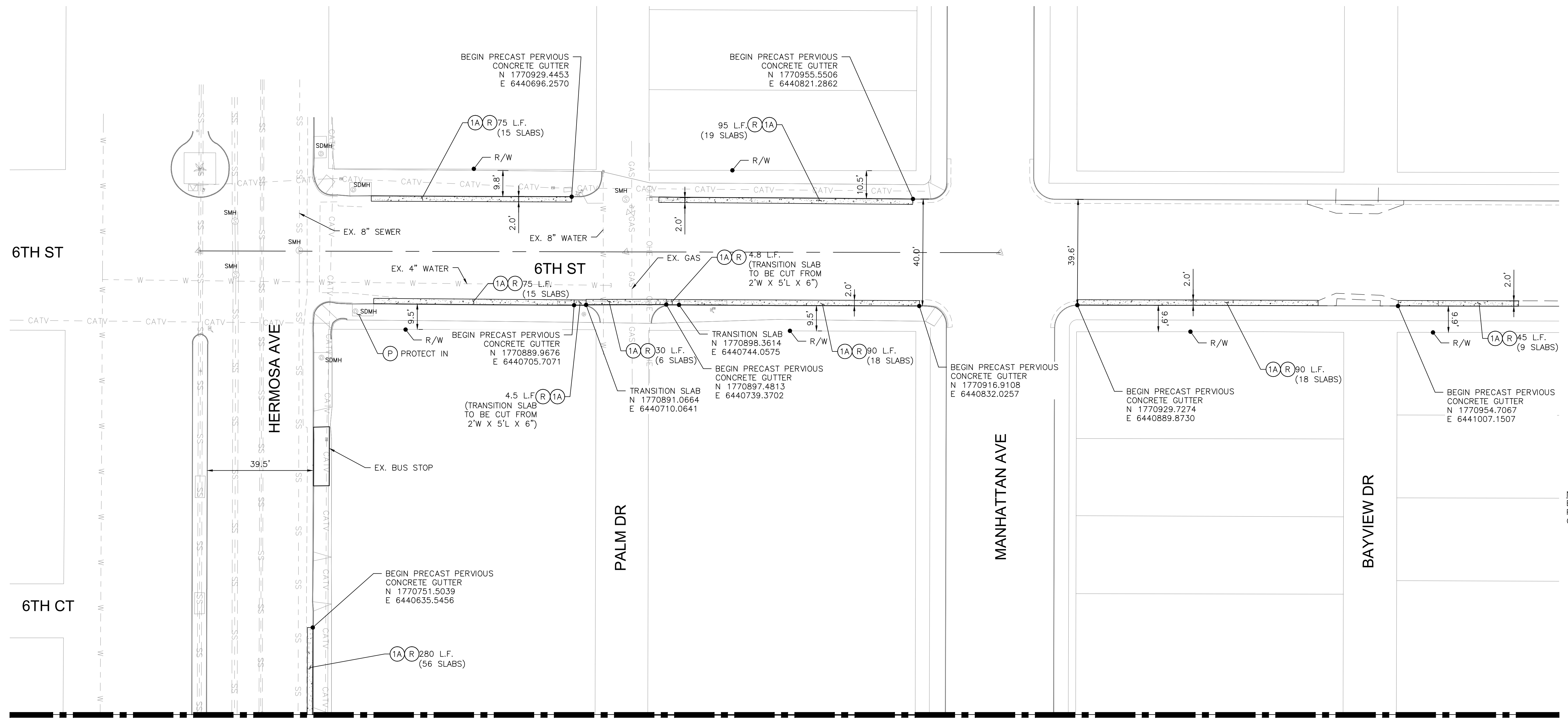


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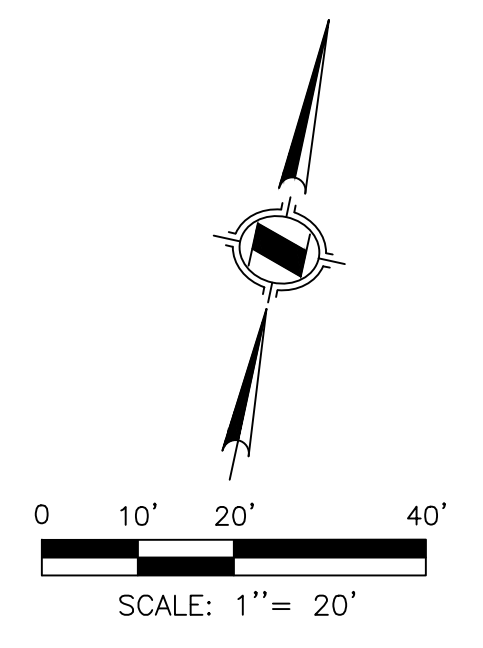
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KEYMAP



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MATCH LINE - SEE SHEET C-8

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 (714) 526-7500
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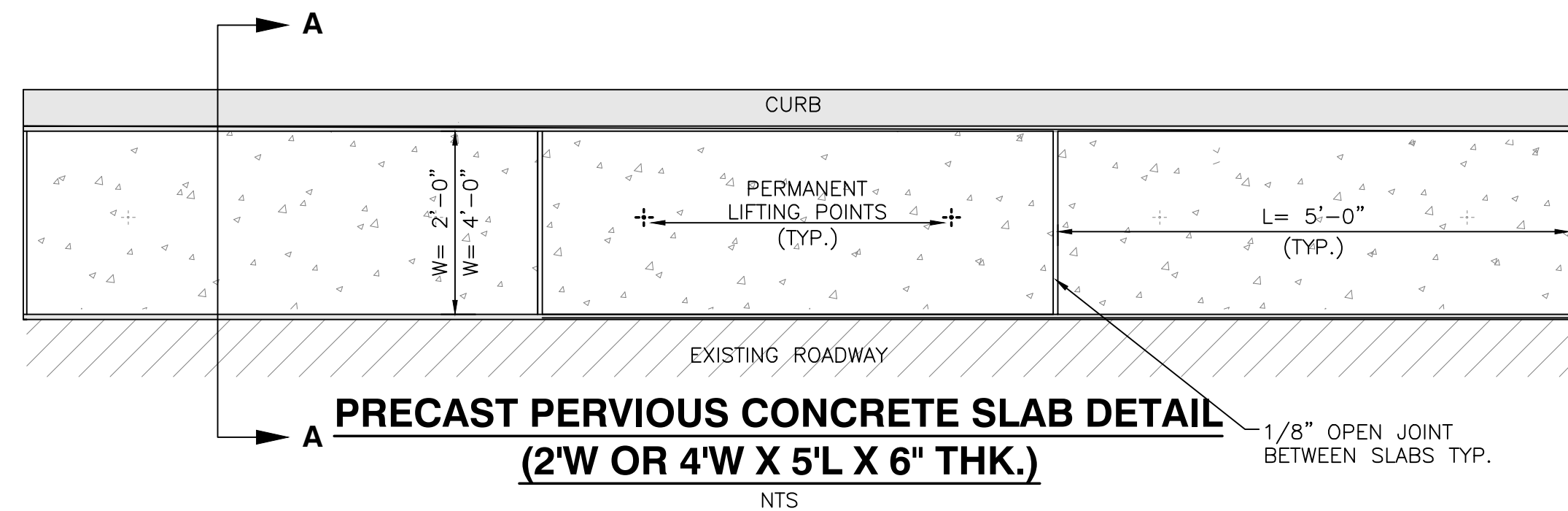
LARRY B. TORTUYA, 71502

9/13/2024
 DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED BY:
 Signed by: *John Oskowi*
 11/05/2024 | 13:09 PST
 DATE

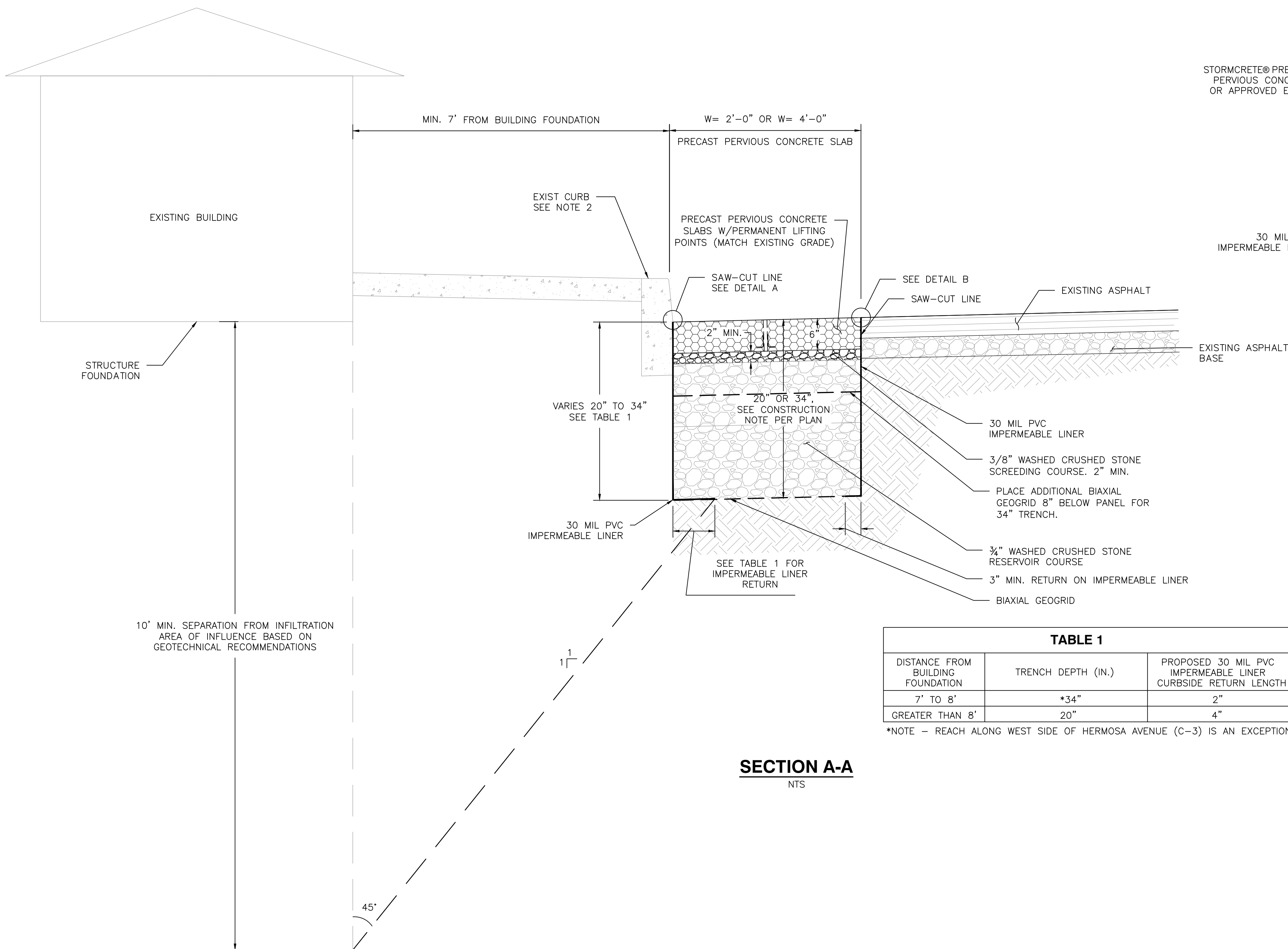
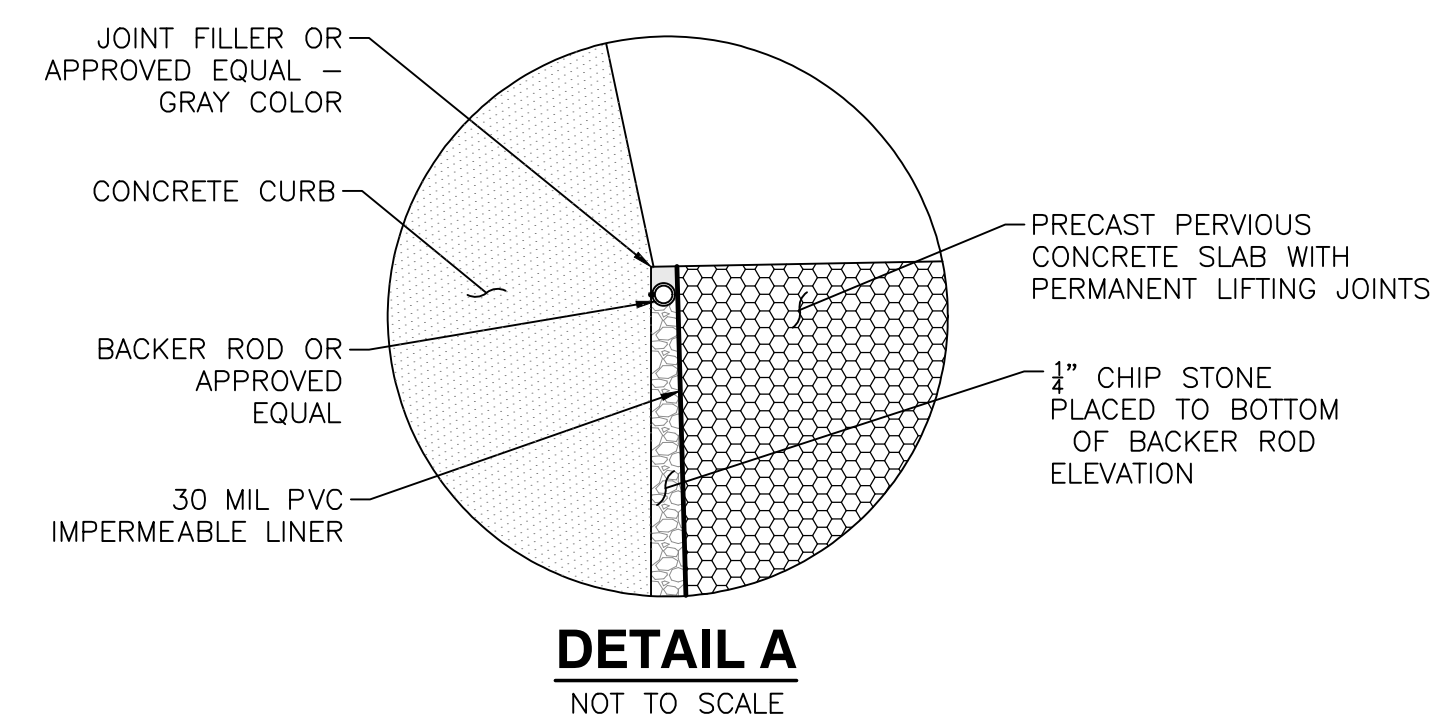
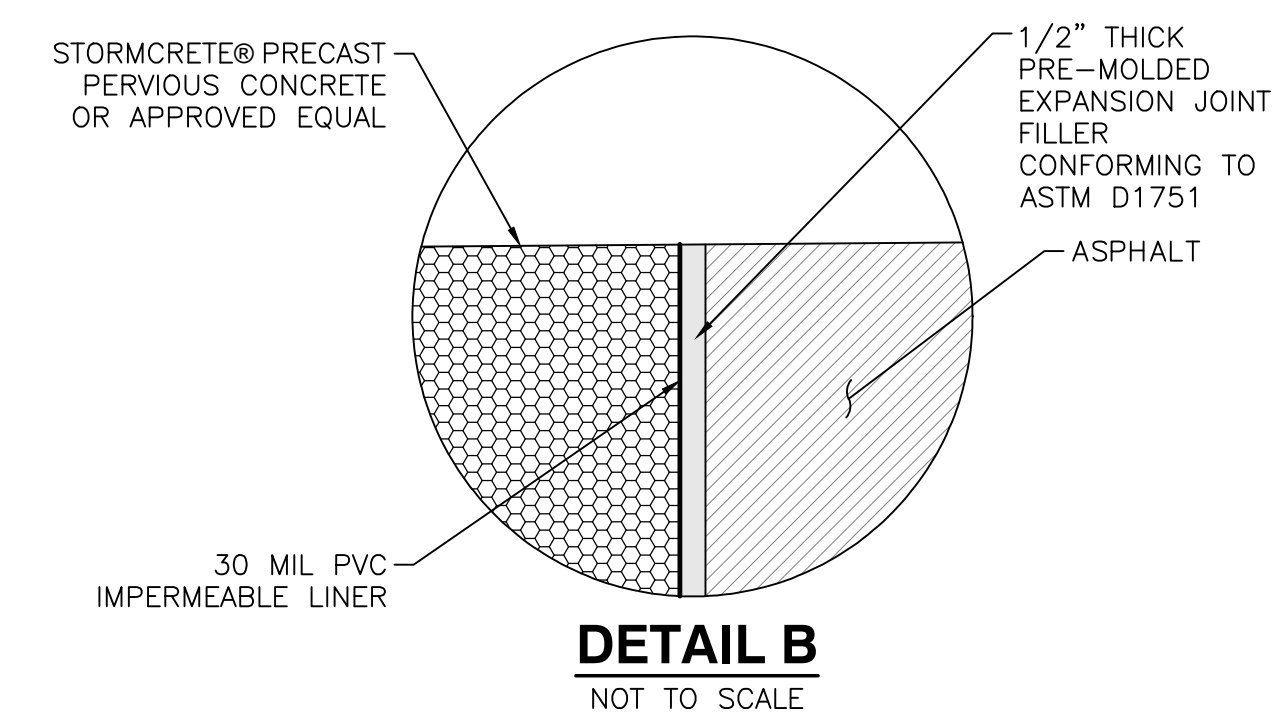
CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 CIVIL PLANS

FILE NUMBER
 23-011
C-9
 SHT. 9 OF 23



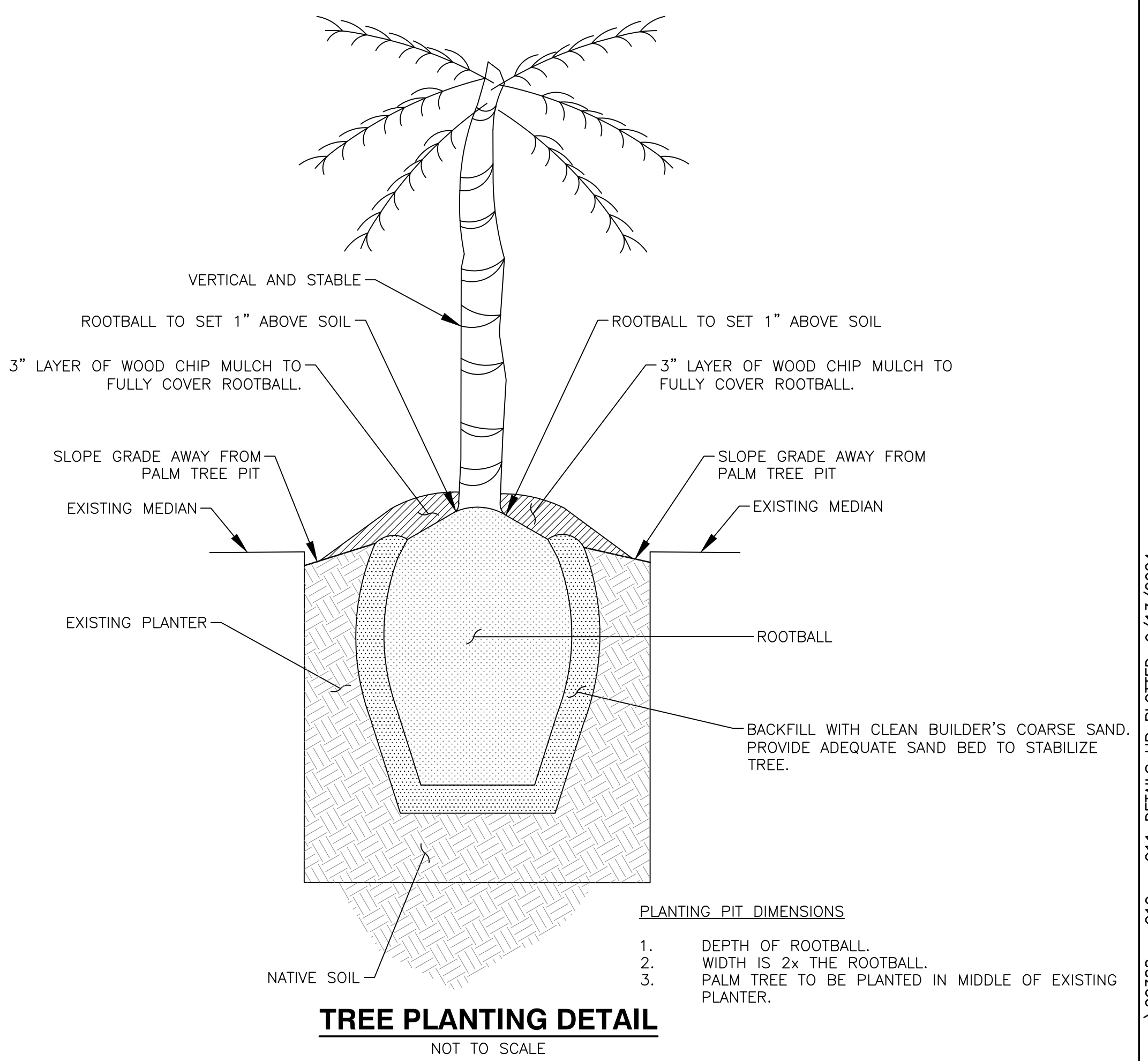
- NOTES:
1. PRECAST MODULAR PERVIOUS CONCRETE SLABS SHALL BE MANUFACTURED BY POROUS TECHNOLOGIES, LLC WWW.STORM-CRETE.COM (888) 357-1161 OR APPROVED EQUAL.
 2. PRECAST MODULAR PERVIOUS CONCRETE SLABS SHALL HAVE A CONCRETE AVERAGE UNIT WEIGHT OF 123 LB/CF (+/- 4%) AND A VOID RATIO OF 15-25% WHEN TESTED IN CONFORMANCE WITH ASTM D1754/1754M-12 STANDARD TEST METHOD FOR DENSITY AND VOID CONTENT OF HARDENED PERVIOUS CONCRETE.
 3. WASHED CRUSHED STONE RESERVOIR AND LEVELING COURSE GRADATIONS AND THICKNESSES TO BE BASED ON SUBSURFACE CONDITIONS, DEPTH OF FREEZING, TRAFFIC LOADINGS, AND STORM WATER DETENTION/RETENTION REQUIREMENTS AS SPECIFIED BY DESIGN PROFESSIONAL.
 4. ADJACENT MATERIAL SHALL NOT BE ALLOWED TO COME INTO DIRECT CONTACT WITH SIDES OF SLAB. PLACE 1/2" MOLDED BITUMINOUS EXPANSION JOINT MATERIAL IN CONFORMANCE WITH ASTM D1751, STANDARD SPECIFICATION FOR PREFORMED EXPANSION JOINT FILLER FOR CONCRETE PAVING AND STRUCTURAL CONSTRUCTION (NONEXTRUDING AND RESILIENT BITUMINOUS TYPES).
 5. REINFORCEMENT TO BE #3 BASALT FIBER BAR, CONFORMING TO ASTM D7205 (120 KSI).
 6. 1/2" COIL THREAD LIFTING INSERT, GALV., A.L. PATTERSON PART NUMBER C16312134P, OR EQUAL.
 7. SLABS SHALL BE CUT WITH A DIAMOND BLADE MASONRY SAW. CUT UNITS SHALL BE NO NARROWER THAN 18" AND CUTTING SHALL OCCUR SO THAT A MINIMUM OF 8" IS MAINTAINED BETWEEN LIFTERS EMBEDDED IN SLABS AND CUT EDGES.
 8. REFER TO MANUFACTURER'S HANDLING AND INSTALLATION INSTRUCTIONS FOR PRODUCT SPECIFIC INFORMATION.

NOTE: 1/2" THICK PRE-MOLDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751, MAY ALSO BE USED ADJACENT TO CONCRETE.



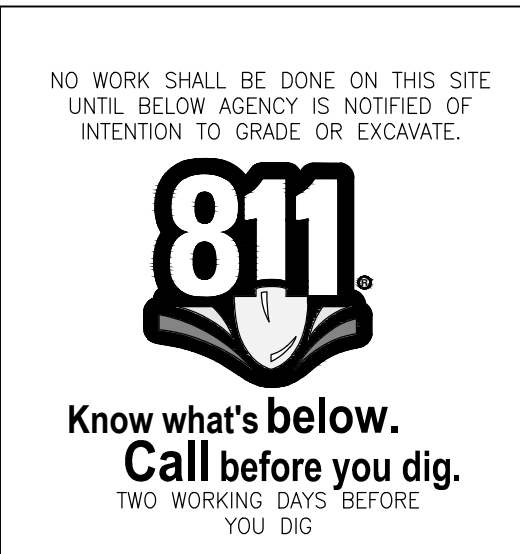
DISTANCE FROM BUILDING FOUNDATION	TRENCH DEPTH (IN.)	PROPOSED 30 MIL PVC IMPERMEABLE LINER CURBSIDE RETURN LENGTH
7' TO 8'	*34"	2"
GREATER THAN 8'	20"	4"

*NOTE - REACH ALONG WEST SIDE OF HERMOSA AVENUE (C-3) IS AN EXCEPTION.



- PLANTING PIT DIMENSIONS
1. DEPTH OF ROOTBALL.
 2. WIDTH IS 2x THE ROOTBALL.
 3. PALM TREE TO BE PLANTED IN MIDDLE OF EXISTING PLANTER.

BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
 DATE ADJ. _____, QUAD. CITY OF TORRANCE



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

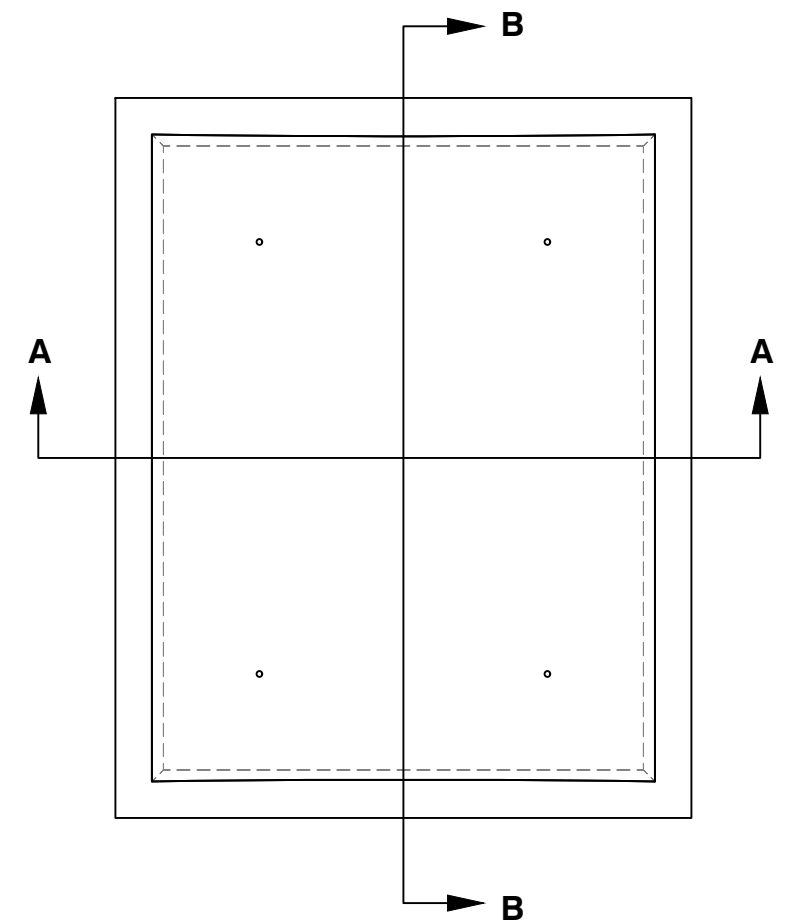
 1561 E. ORANGETHORPE AVE.
 SUITE 240
 FULLERTON, CA 92831
 (714) 526-7500
 www.cwecorp.com

9/13/2024
 LARRY B. TORTUYA, 71502
 DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED BY:
 Signed by: *John Ostrowi*
 11/05/2024 | 13:09 PST
 DATE

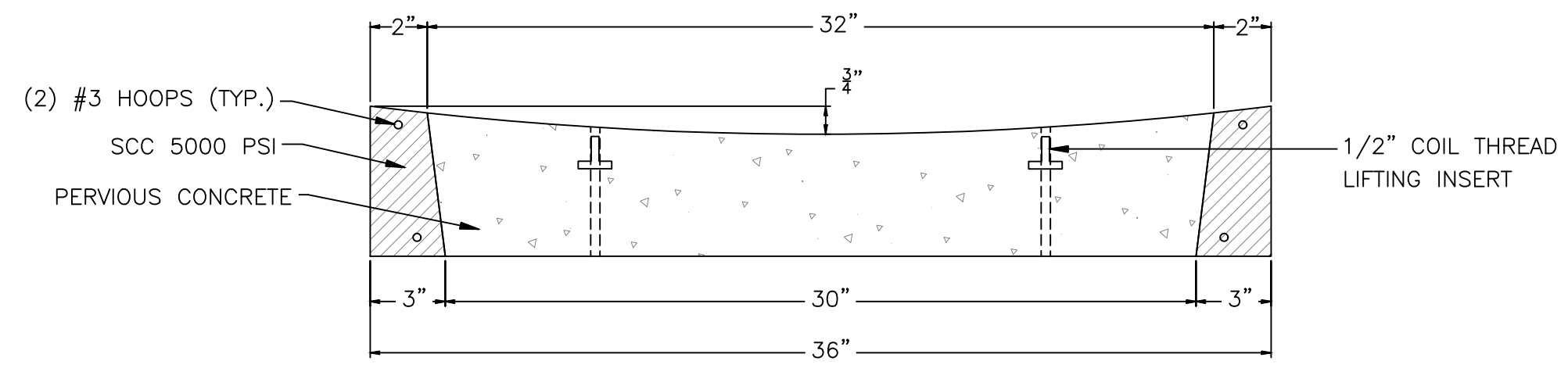
CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 PERVIOUS CONCRETE
 DETAILS 1

FILE NUMBER
 23-011
 C-10
 SHT. 10 OF 23

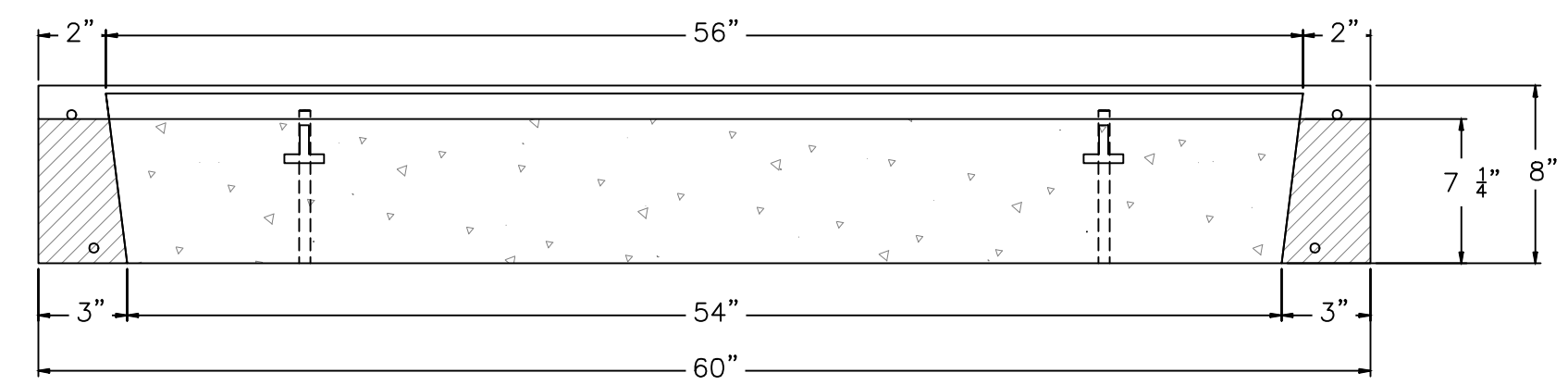


- NOTES: UNLESS OTHER WISE SPECIFIED**
1. REINFORCING TO BE GRADE 60, #3 EPOXY COATED REBAR.
 2. STORMCRETE POROUS CONCRETE AVERAGE UNIT WEIGHT 124 LB/CF (+/-5%) WITH INFILTRATION RATE OF 250 IN/HR PER ASTM C1701 MIN.
 3. LIFTING INSERTS ARE CONAC C63C05175 GALVANIZED FLARED THIN SLAB COIL INSERTS, WING NUT STYLE.
 4. CONFORMS TO ACI 522R-10 AND APPLICABLE ASTM SPECIFICATIONS.

PLAN VIEW

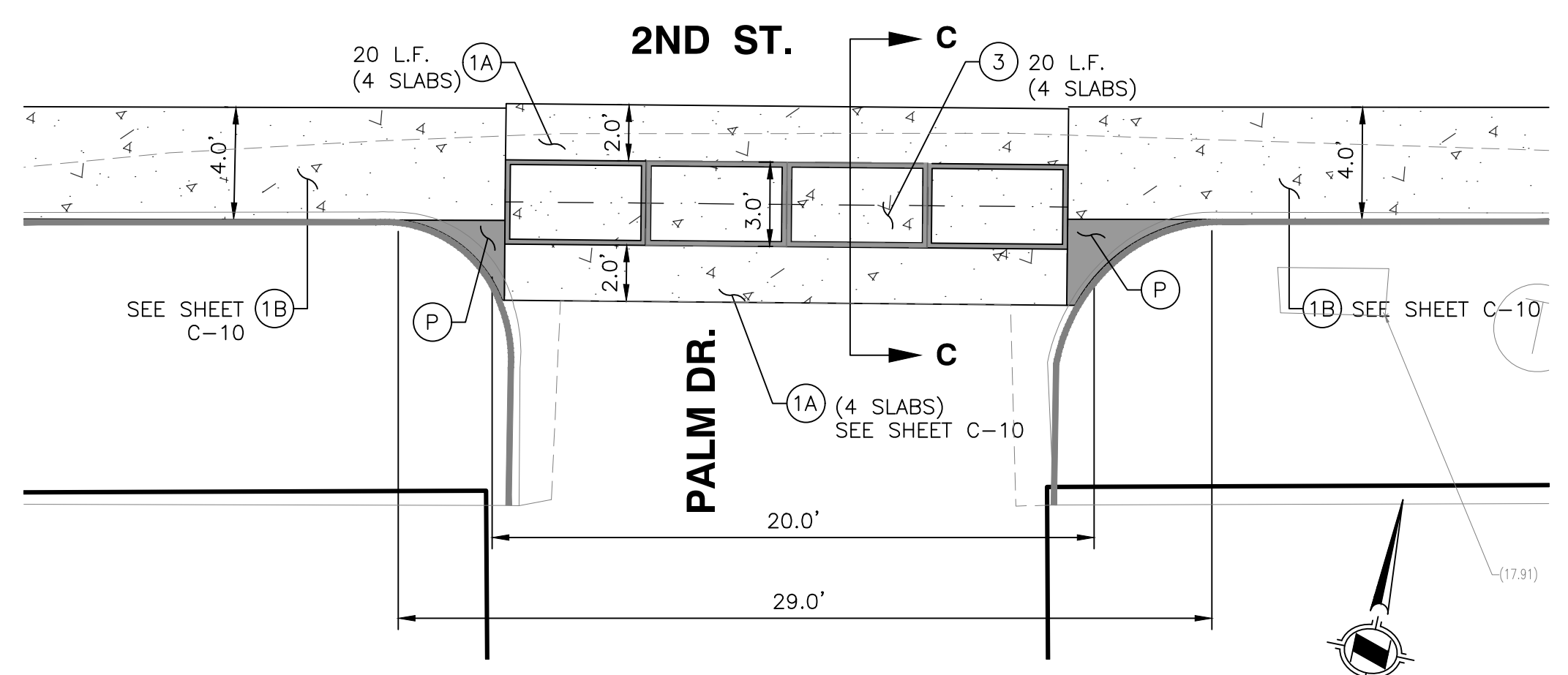


SECTION A-A



SECTION B-B

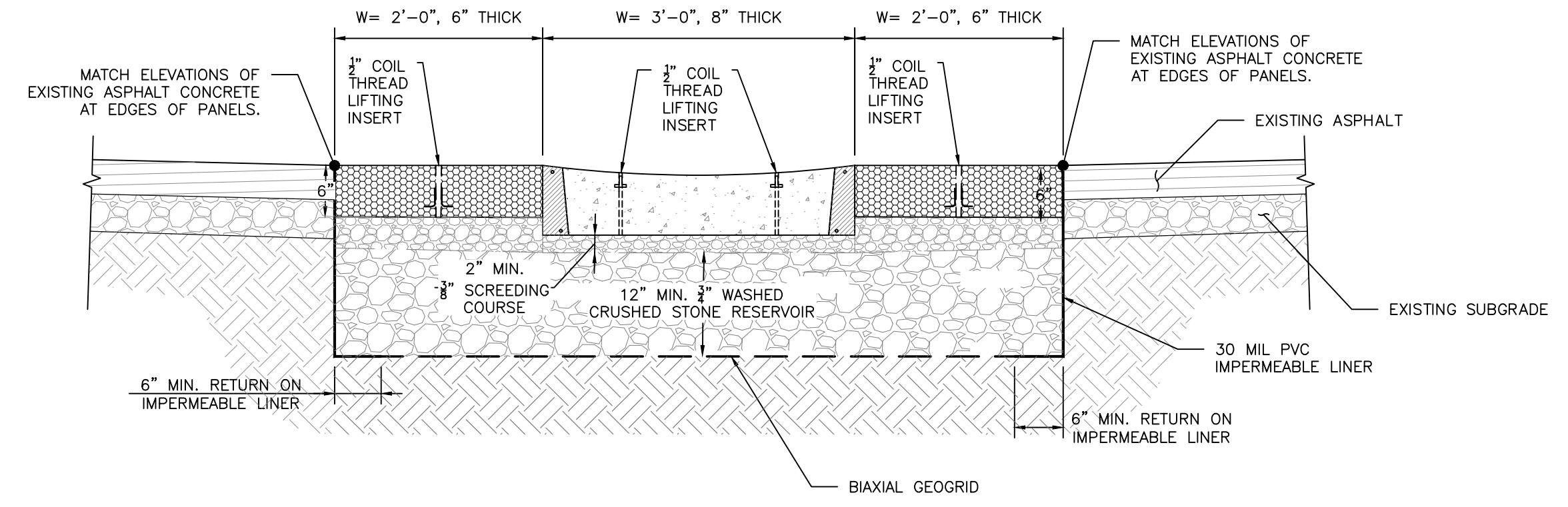
PRECAST PERVIOUS CONCRETE RIBBON GUTTER PANEL (3'W X 5'L X 8" THK.)



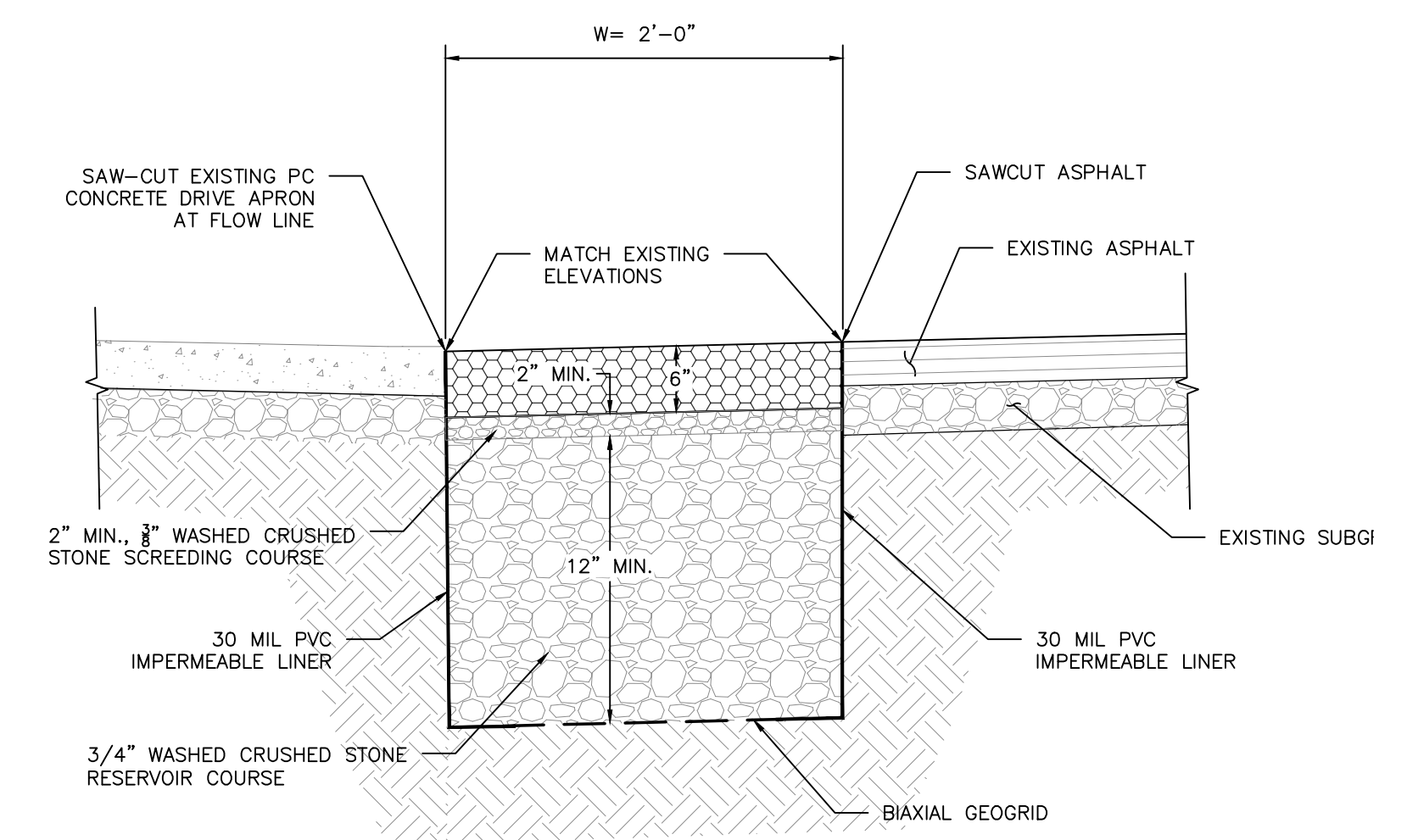
PRECAST PERVIOUS CONCRETE RIBBON GUTTER DETAIL ON 2ND ST. AT PALM DR. (3'W X 5'L X 8" THK.)

CONSTRUCTION NOTES:

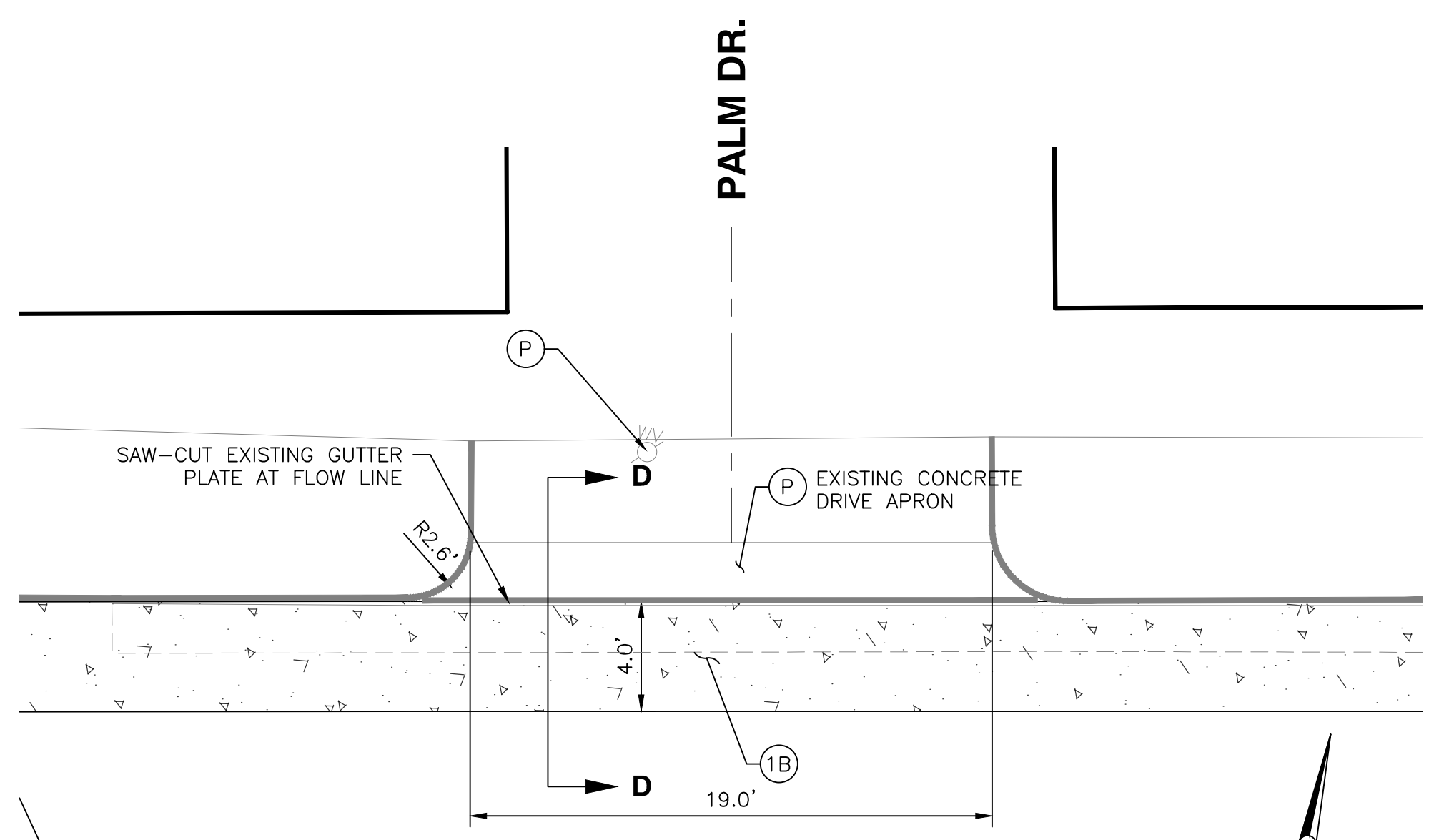
- (1A) PRECAST PERVIOUS CONCRETE SLAB (2'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.
- (1B) PRECAST PERVIOUS CONCRETE SLAB (4'W X 5'L X 6" THK.-20" TRENCH) PER DETAIL ON SHEET C-10.
- (2) PRECAST PERVIOUS CONCRETE SLAB (2'W X 5'L X 6" THK.-34" TRENCH) PER DETAIL ON SHEET C-10.
- (3) PRECAST PERVIOUS CONCRETE CROSS GUTTER/RIBBON DRAIN (3'W X 5'L X 8" THK.) PER DETAIL ON SHEET C-11.
- (P) PROTECT IN PLACE.



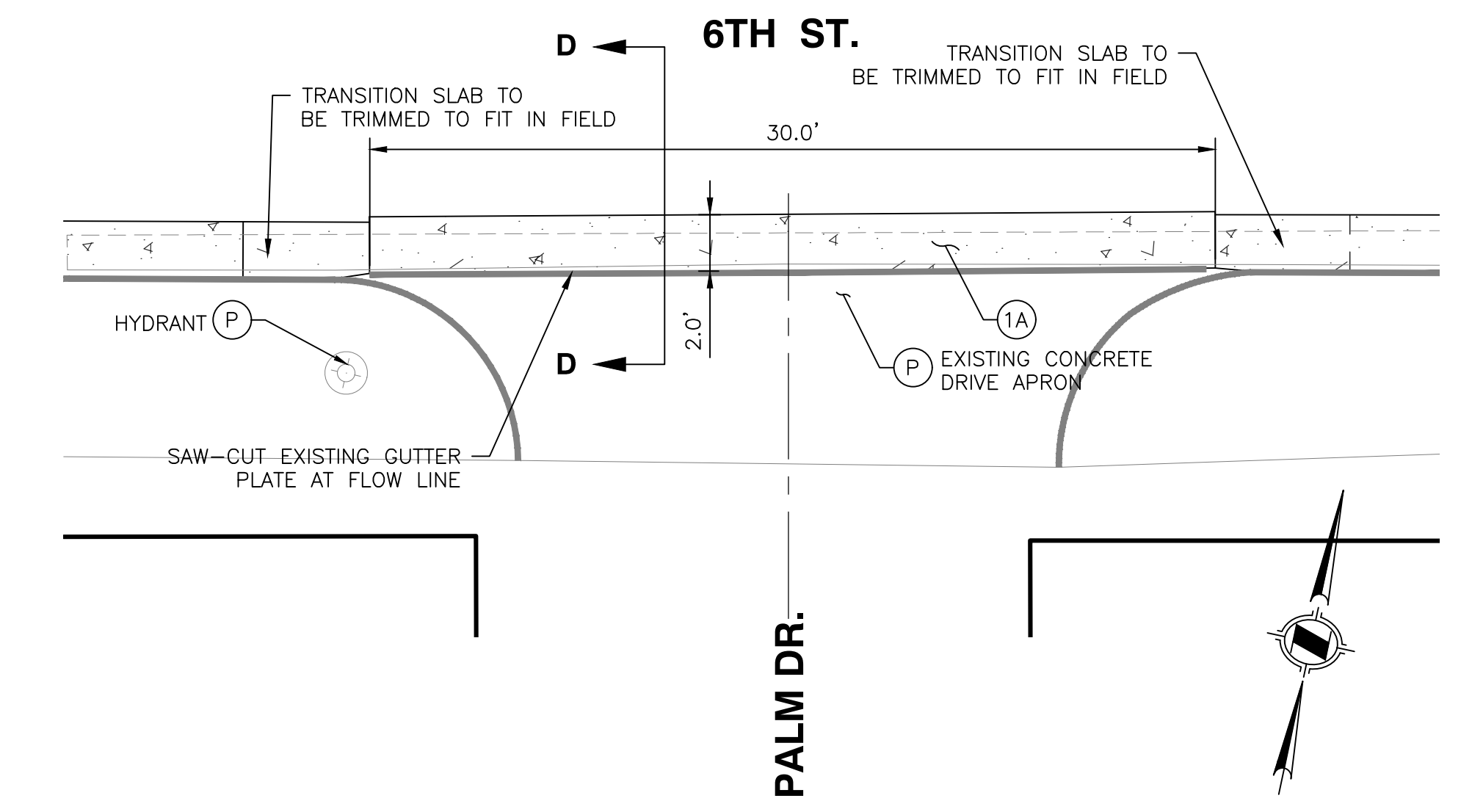
SECTION C-C
NTS



SECTION D-D
NTS

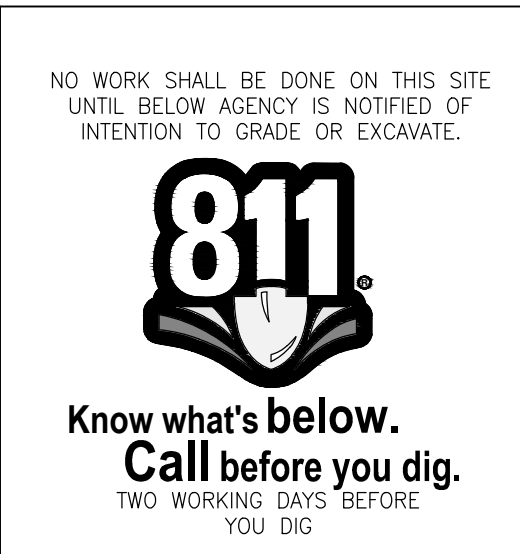


PRECAST PERVIOUS CONCRETE SLAB LAYOUT ALONG CONCRETE DRIVE APRON AT 1ST ST. AND PALM DR. (4'W X 5'L X 6" THK.)



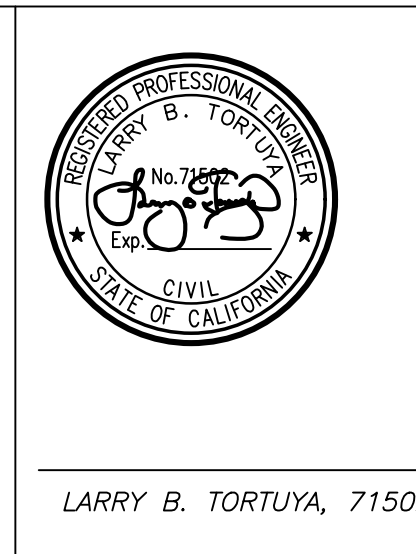
PRECAST PERVIOUS CONCRETE SLAB LAYOUT ALONG CONCRETE DRIVE APRON AT 6TH ST. AND PALM DR. (2'W X 5'L X 6" THK.)

BENCH MARK:
No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE



REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:
CWE
1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com



9/13/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:
Signed by:
John Askani
11/05/2024 13:09 PST
DATE

CIP 164
HERMOSA AVE
GREEN STREET PROJECT
PERVIOUS CONCRETE
DETAILS 2

FILE NUMBER
23-011
C-11
SHT. 11 OF 23

BORING LOG NO. HA-1									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
0.0	ASPHALT, 10" thickness								
0.8	POORLY GRADED SAND (SP)								
4.5	SILTY SAND (SM)								
4.5	Hand Auger Refusal at 4.5 Feet								

BORING LOG NO. HB-1									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
0.0	ASPHALT, 10" thickness								
0.8	POORLY GRADED SAND (SP)								
3.4-5									
1.2-2									
1.1-3									
6-11-13									
3-6-11									

BORING LOG NO. HB-1									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
4-7-11									
4-6-9									
6-15-21									
4-14-18									
18-50-6"									

BORING LOG NO. HB-1									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
10-25-31									



BORING LOG NO. HP-1									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
0.0	ASPHALT, 10" thickness								
0.8	POORLY GRADED SAND (SP)								
4-5-9									

BORING LOG NO. HP-2									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
7-8-8									

BORING LOG NO. HP-3									
PROJECT: Green Streets Project					CLIENT: CWE Corp Fullerton, CA				
SITE: Beach Cities (Torrance, Hermosa, Redondo, and Manhattan Beach), CA									
DEPTH (FT)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	FIELD TEST RESULTS	STRENGTH TEST	ATTERBERG LIMITS	PERCENT FINES	TEST TYPE	WATER CONTENT (%)	LL-PL-P
5-9-11									

BENCH MARK:
No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE

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PLANS PREPARED BY:

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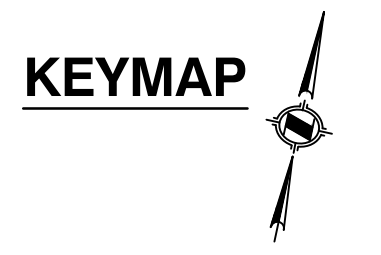
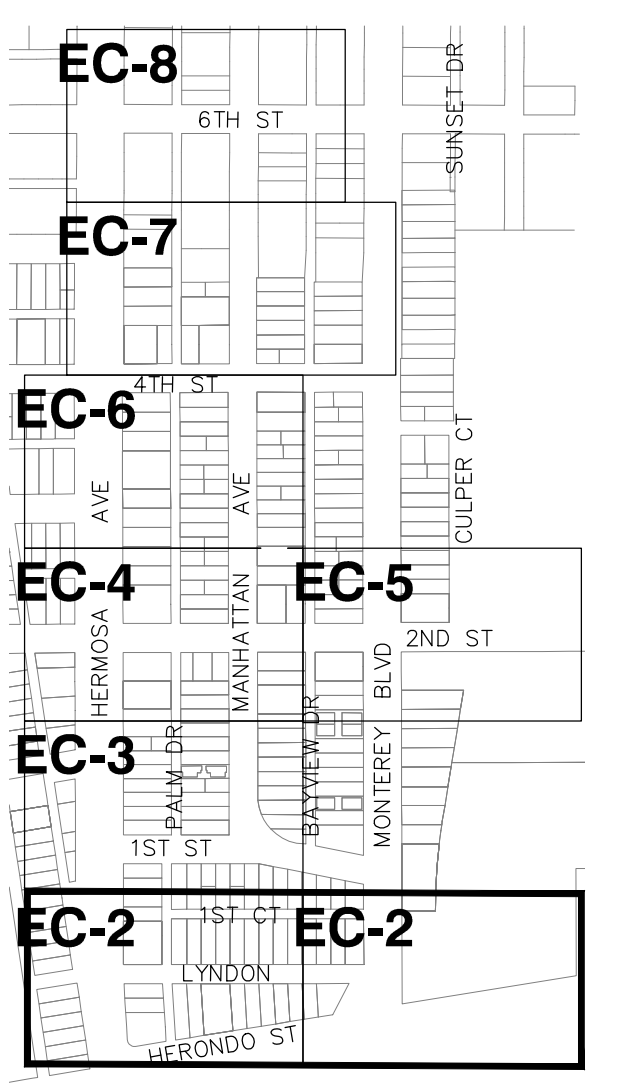
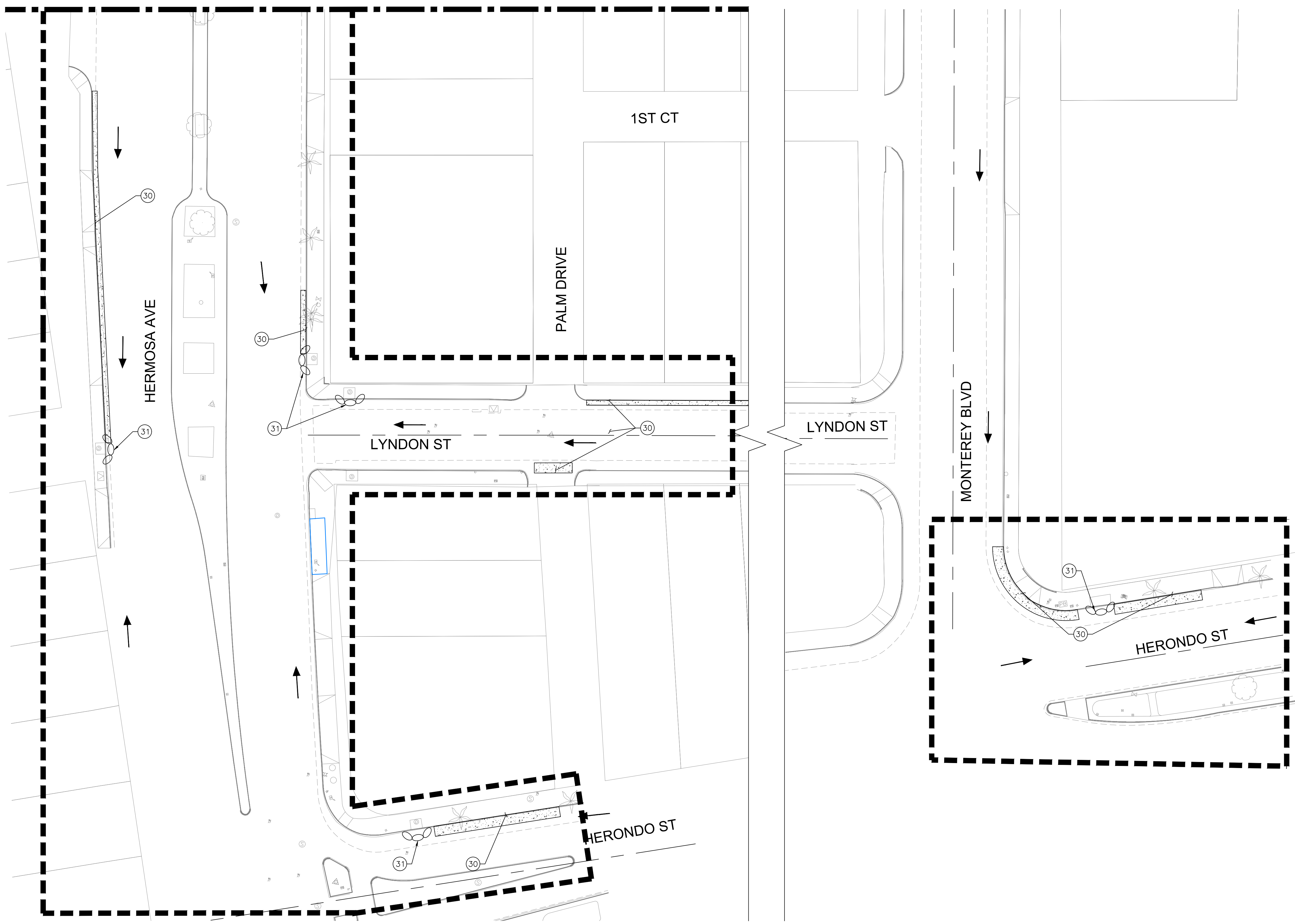
LARRY B. TORTUYA, 71502 DATE 9/13/2024

CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:
Signed by:
JOHN OSKOWI, CIVIL ENGINEER DATE 11/05/2024 | 13:09 PST

CIP 164 HERMOSA AVE GREEN STREET PROJECT BORING LOGS

FILE NUMBER 23-011
C-12
SHT. 12 OF 23

MATCH LINE - SEE SHEET EC-3

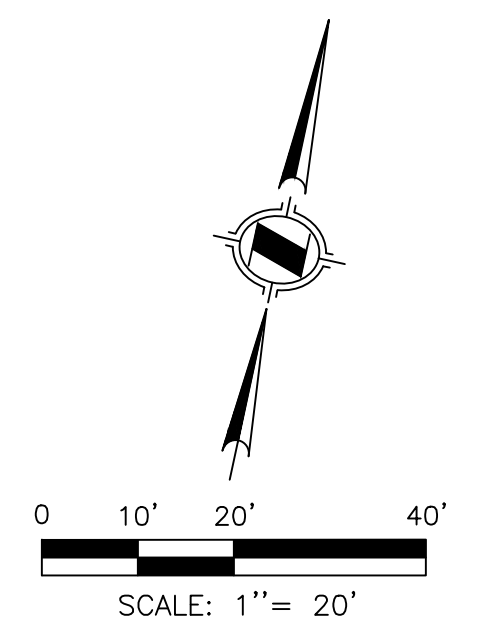


EROSION CONTROL SYMBOLS:

- INLET PROTECTION
- DIRECTION OF FLOW
- PROJECT LIMIT

EROSION CONTROL NOTES:

- 30 — STREET SWEEPING AND VACUUMING (BMP SE-7)
- 31 — INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
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LARRY B. TORTUYA, 71502

9/13/2024
 DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:
 Signed by:

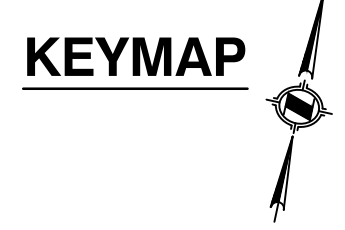
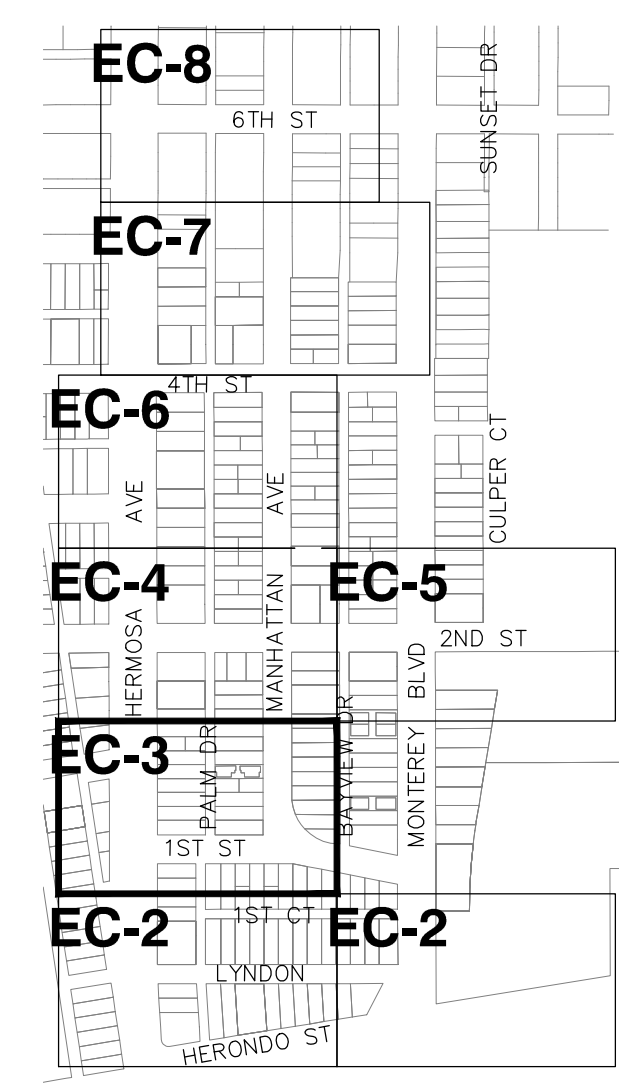
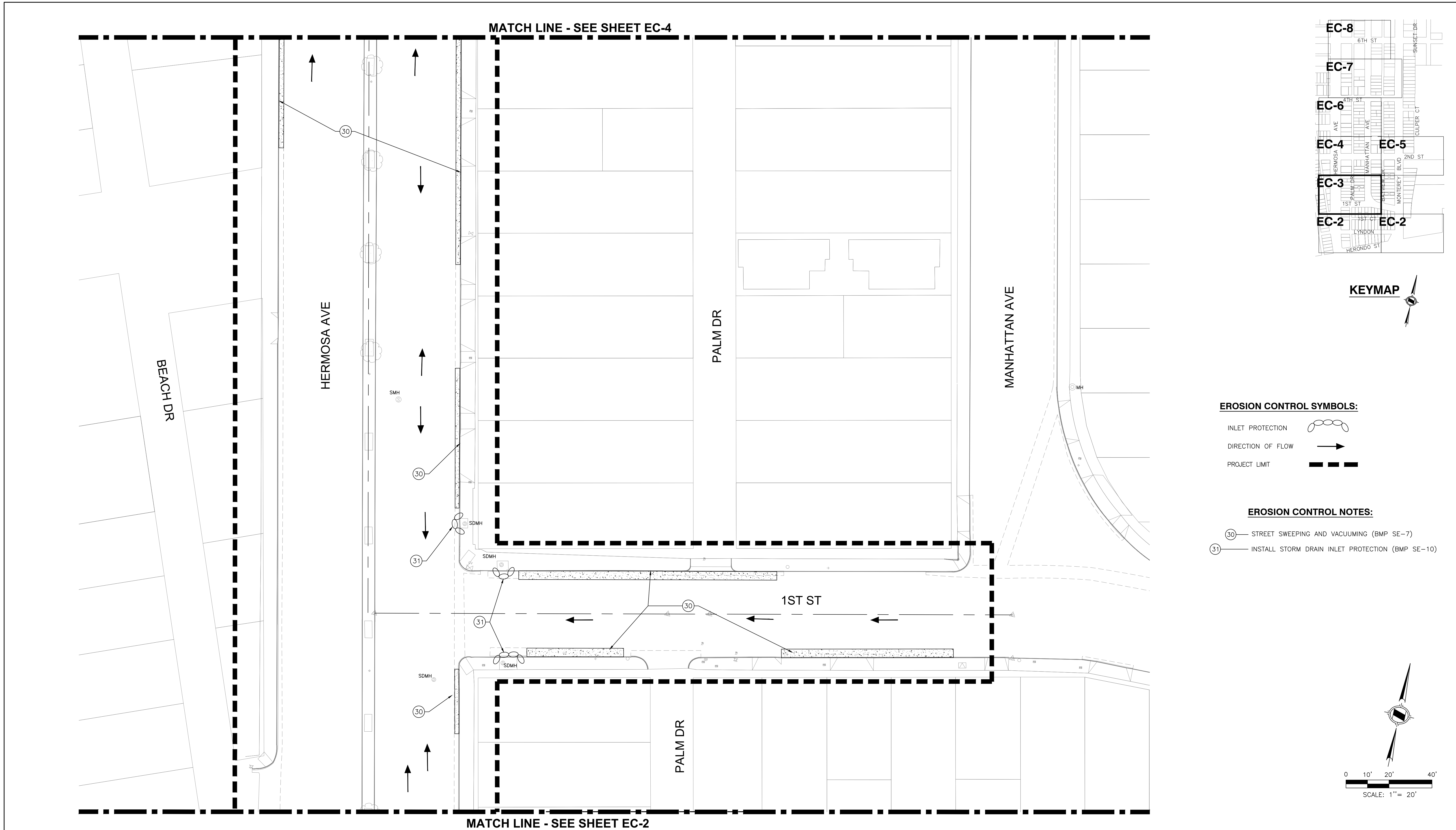
 JOHN F. OSTROWI, ENGINEER
 DATE: 11/05/2024 | 13:09 PST

CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 EROSION CONTROL PLAN

FILE NUMBER
 23-011

EC-2

SHT. 14 OF 23

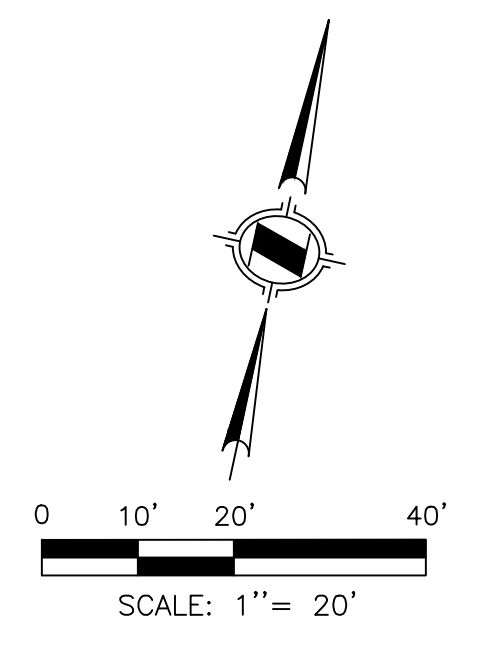


EROSION CONTROL SYMBOLS:

- INLET PROTECTION
- DIRECTION OF FLOW
- PROJECT LIMIT

EROSION CONTROL NOTES:

- 30 — STREET SWEEPING AND VACUUMING (BMP SE-7)
- 31 — INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



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LARRY B. TORTUYA, 71502

9/13/2024

Signed by:

 JOHN OSTROWI, ENGINEER

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

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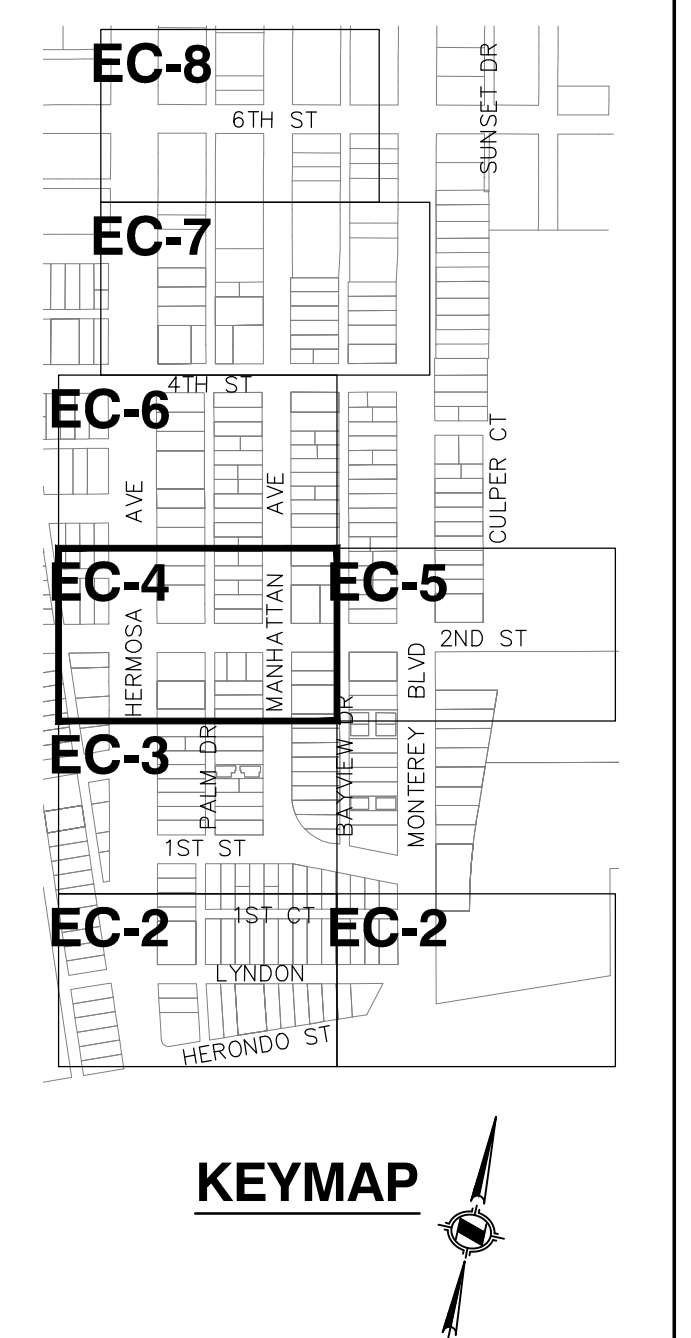
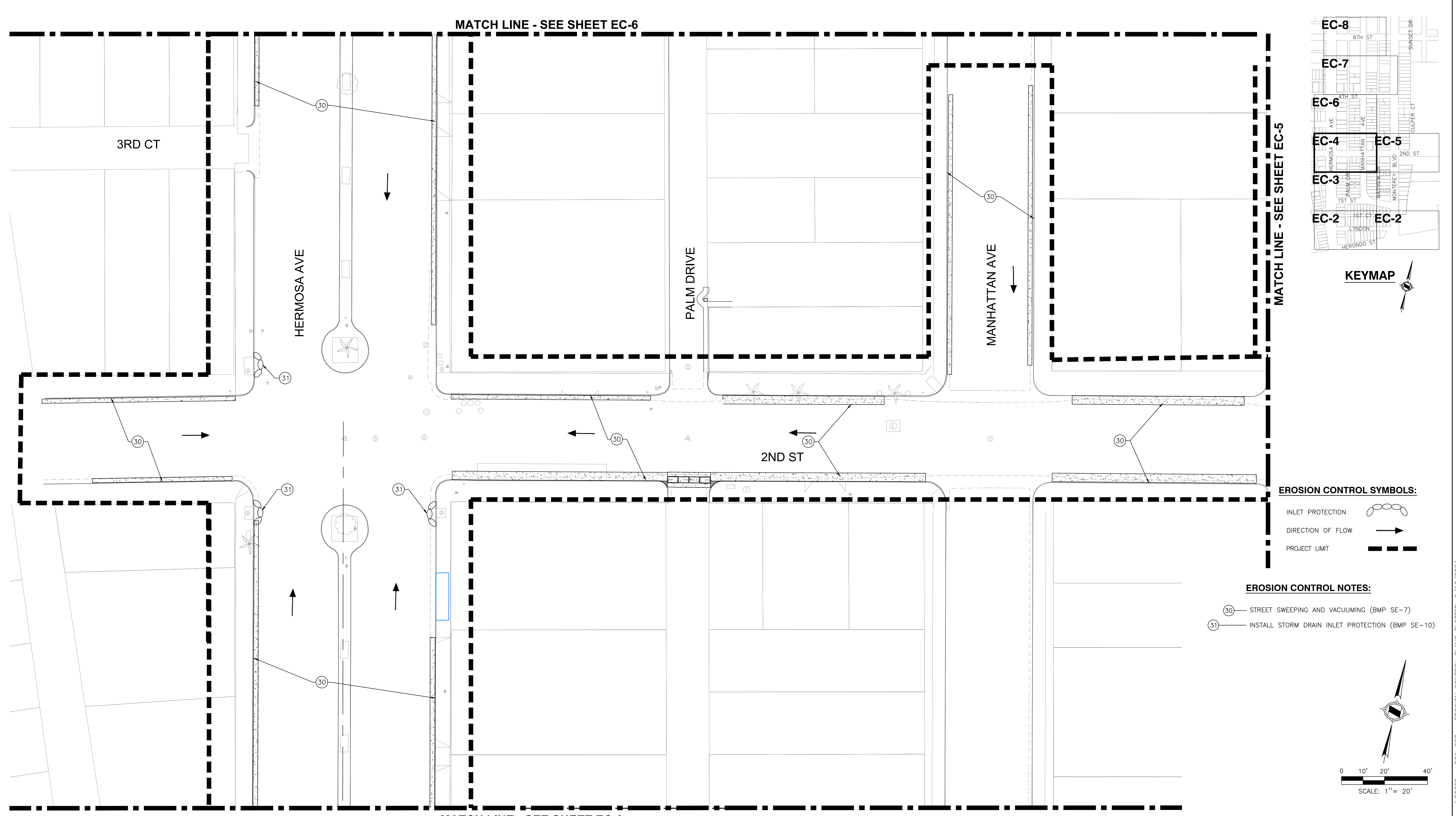
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CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 EROSION CONTROL PLAN

FILE NUMBER
 23-011

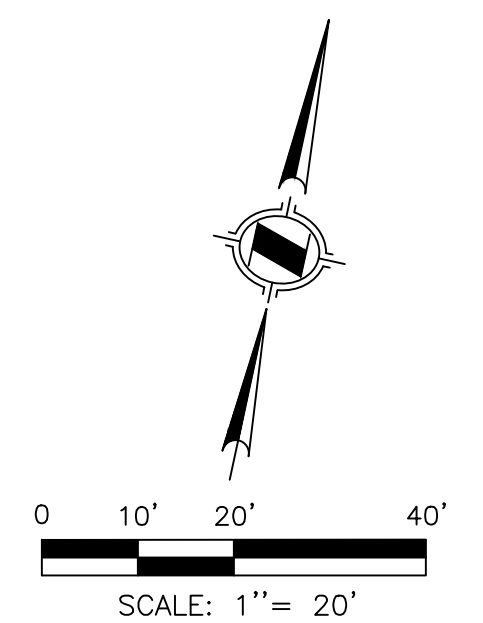
EC-3

SHT. 15 OF 23



- EROSION CONTROL SYMBOLS:**
- INLET PROTECTION
 - DIRECTION OF FLOW
 - PROJECT LIMIT

- EROSION CONTROL NOTES:**
- 30 — STREET SWEEPING AND VACUUMING (BMP SE-7)
 - 31 — INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
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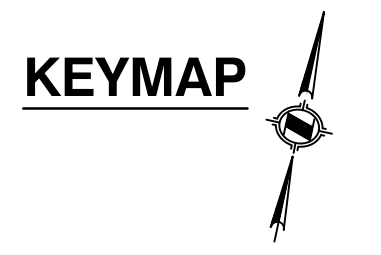
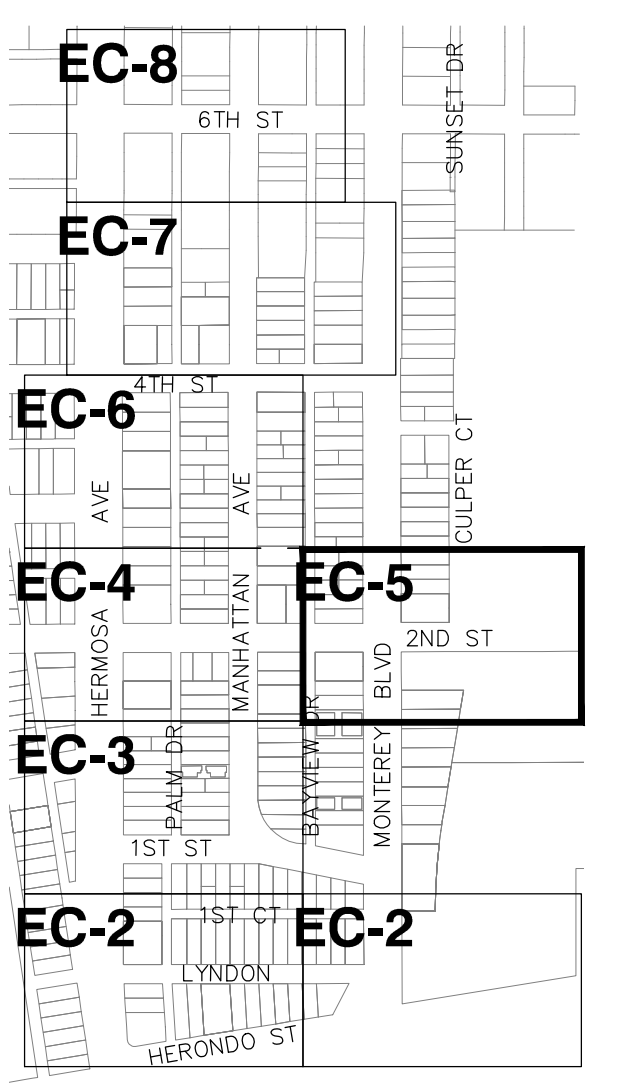
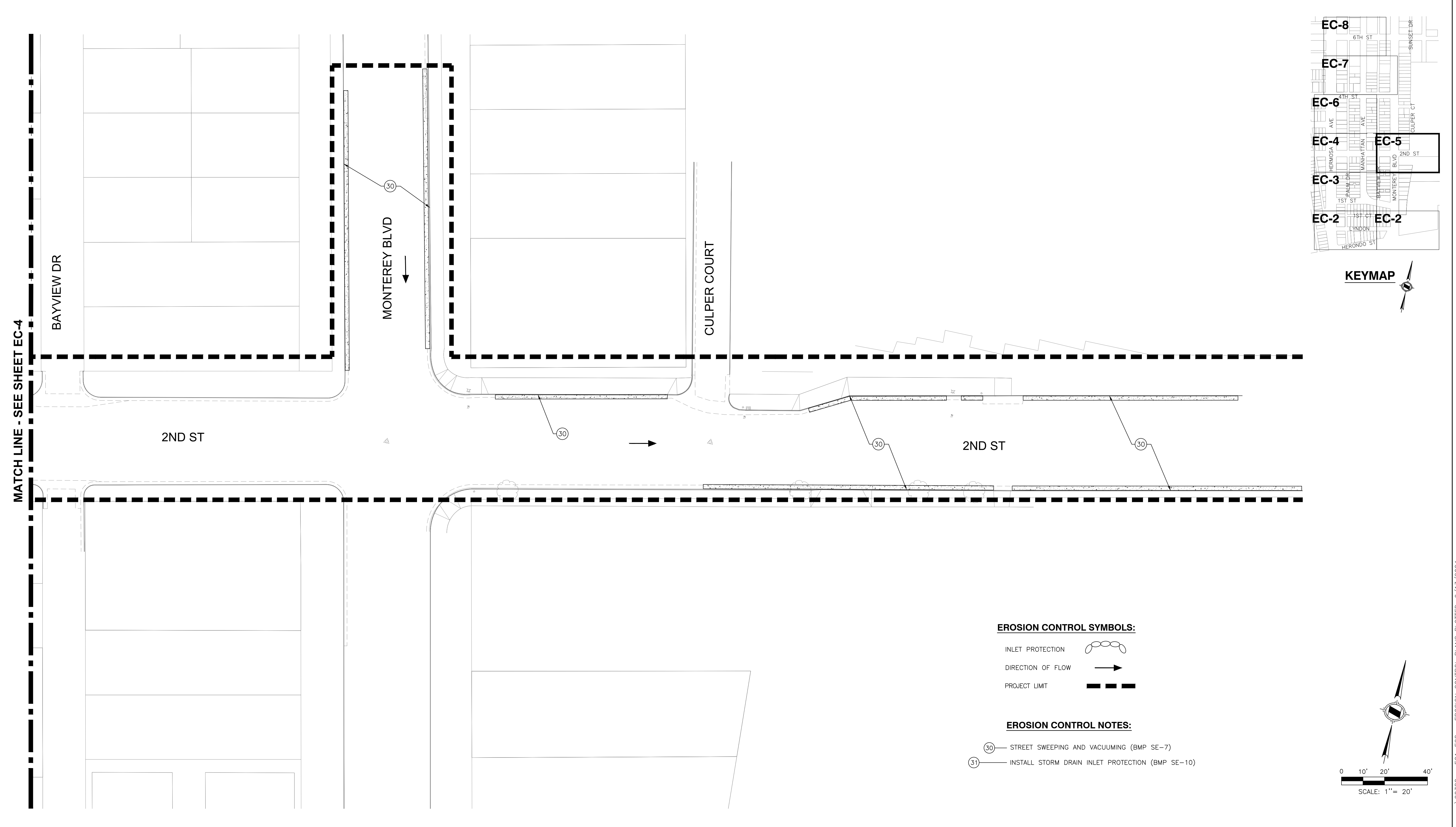
 1561 E. ORANGETHORPE AVE.
 SUITE 240
 FULLERTON, CA 92831
 (714) 526-7500
 www.cwecorp.com

PROFESSIONAL ENGINEER
 LARRY B. TORTUYA, 71502
 No. 7257
 CIVIL
 STATE OF CALIFORNIA




CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED BY:
 Signed by: John Askari
 11/05/2024 13:09 PST
 CIVIL ENGINEER

CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 EROSION CONTROL PLAN

FILE NUMBER
 23-011
EC-4
 SHT. 16 OF 23

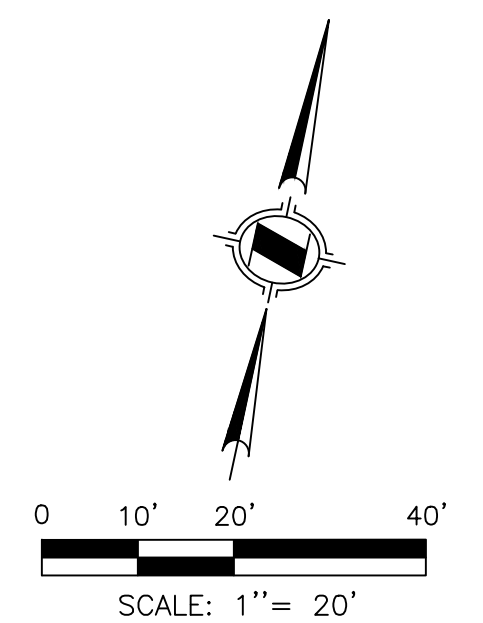


EROSION CONTROL SYMBOLS:

- INLET PROTECTION 
- DIRECTION OF FLOW 
- PROJECT LIMIT 


EROSION CONTROL NOTES:

- (30) STREET SWEEPING AND VACUUMING (BMP SE-7)
- (31) INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
 DATE ADJ. _____, QUAD. CITY OF TORRANCE

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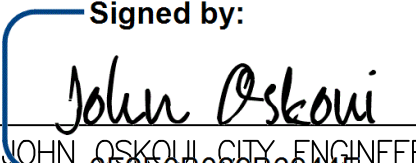
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REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

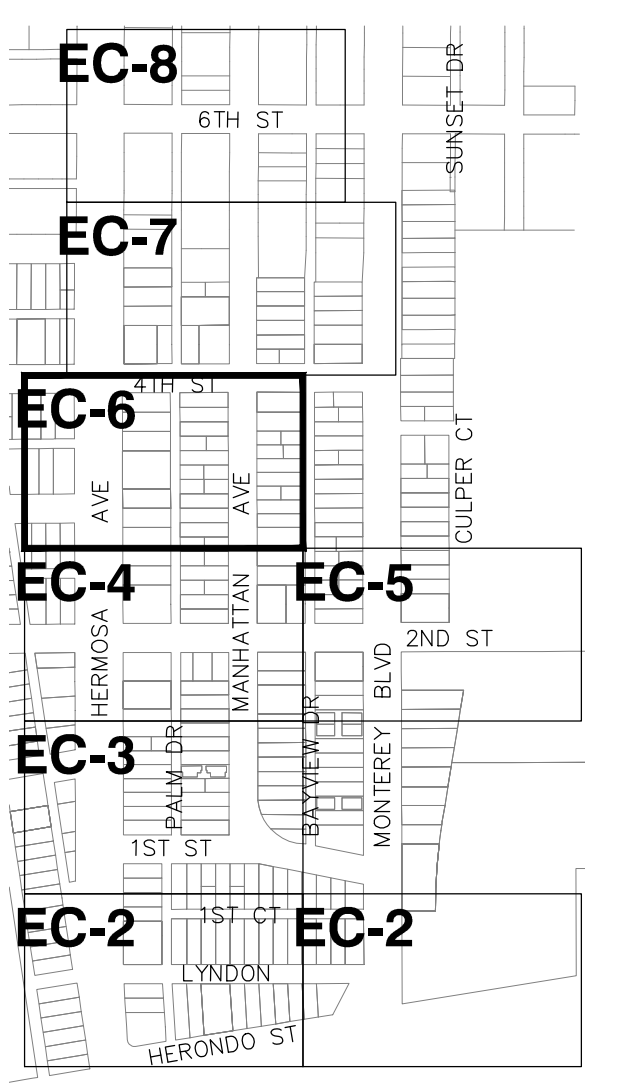
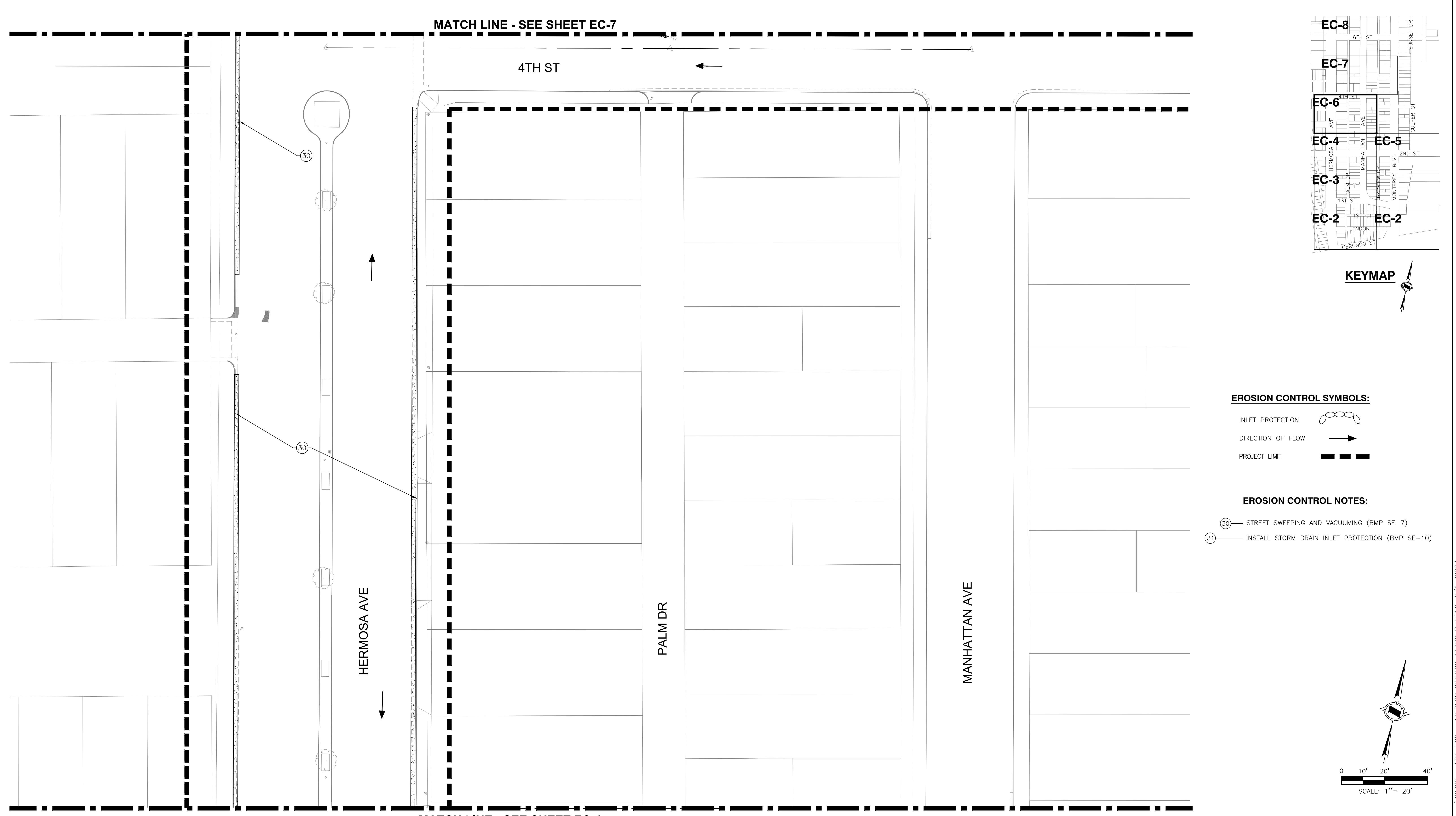
 1561 E. ORANGETHORPE AVE.
 SUITE 240
 FULLERTON, CA 92831
 (714) 526-7500
 www.cwecorp.com


 LARRY B. TORTUYA, 71502
 DATE 9/13/2024

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED BY:
 Signed by: 
 JOHN OSKOU, CITY ENGINEER
 DATE 11/05/2024 | 13:09 PST

CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 EROSION CONTROL PLAN

FILE NUMBER
 23-011
EC-5
 SHT. 17 OF 23

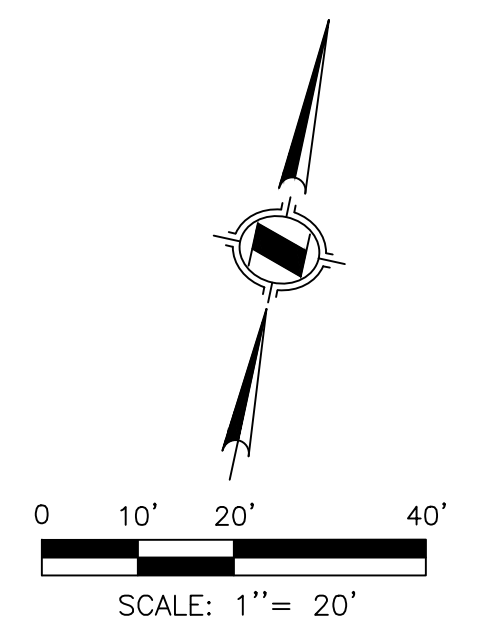


EROSION CONTROL SYMBOLS:

- INLET PROTECTION
- DIRECTION OF FLOW
- PROJECT LIMIT

EROSION CONTROL NOTES:

- ③0 — STREET SWEEPING AND VACUUMING (BMP SE-7)
- ③1 — INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
 DATE ADJ. _____, QUAD. CITY OF TORRANCE

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REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:

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 SUITE 240
 FULLERTON, CA 92831
 (714) 526-7500
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LARRY B. TORTUYA, 71502
 DATE 9/13/2024

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 Signed by:




 DATE 11/05/2024 | 13:09 PST
 JOHN OSKOWI, CIVIL ENGINEER

CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 EROSION CONTROL PLAN

FILE NUMBER
 23-011
EC-6
 SHT. 18 OF 23

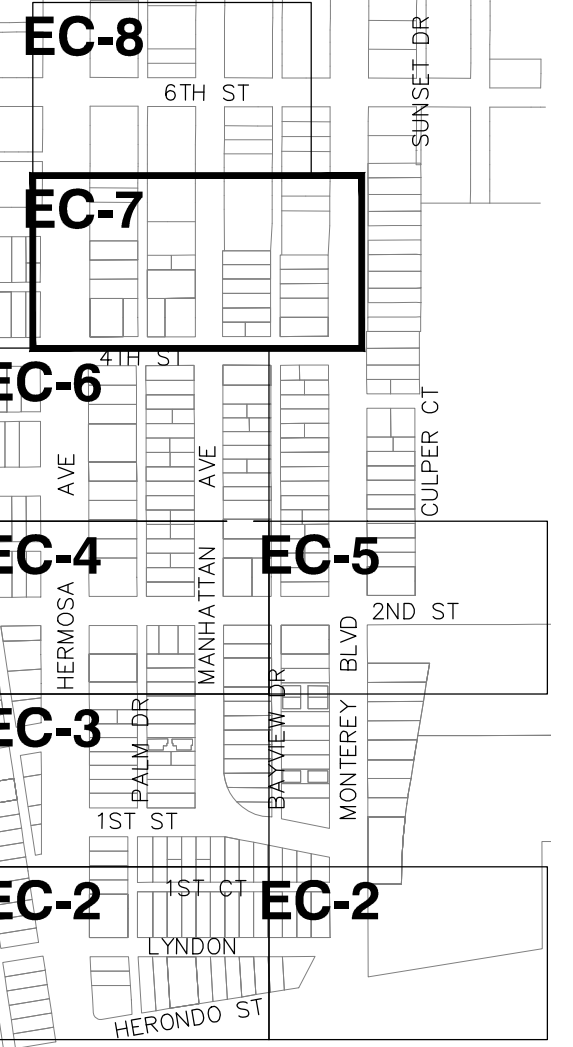
MATCH LINE - SEE SHEET EC-8

EROSION CONTROL SYMBOLS:

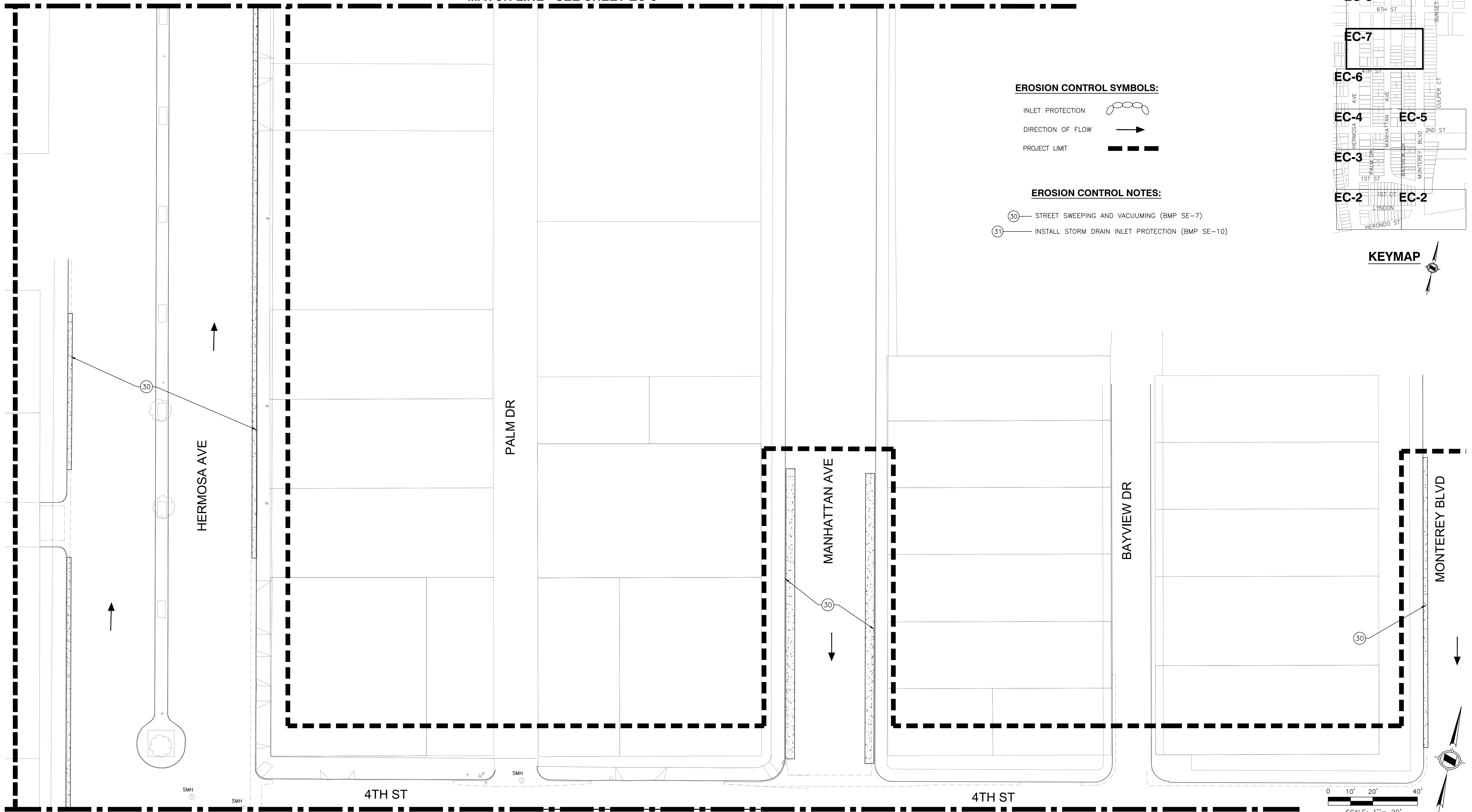
- INLET PROTECTION 
- DIRECTION OF FLOW 
- PROJECT LIMIT 

EROSION CONTROL NOTES:

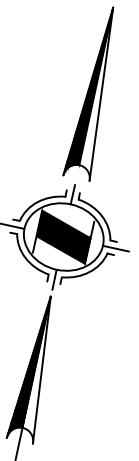
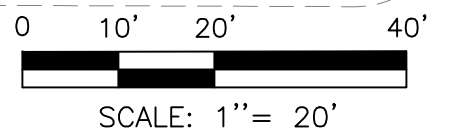
- (30) — STREET SWEEPING AND VACUUMING (BMP SE-7)
- (31) — INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



KEYMAP




MATCH LINE - SEE SHEET EC-6



BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
 DATE ADJ. _____, QUAD. CITY OF TORRANCE


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REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:



1561 E. ORANGETHORPE AVE.
SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com



LARRY B. TORTUYA, 71502

9/13/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:

Signed by: *John Ostrowi*

11/05/2024 | 13:09 PST

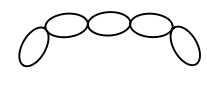
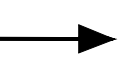

CIP 164
HERMOSA AVE
GREEN STREET PROJECT
EROSION CONTROL PLAN

FILE NUMBER
23-011

EC-7

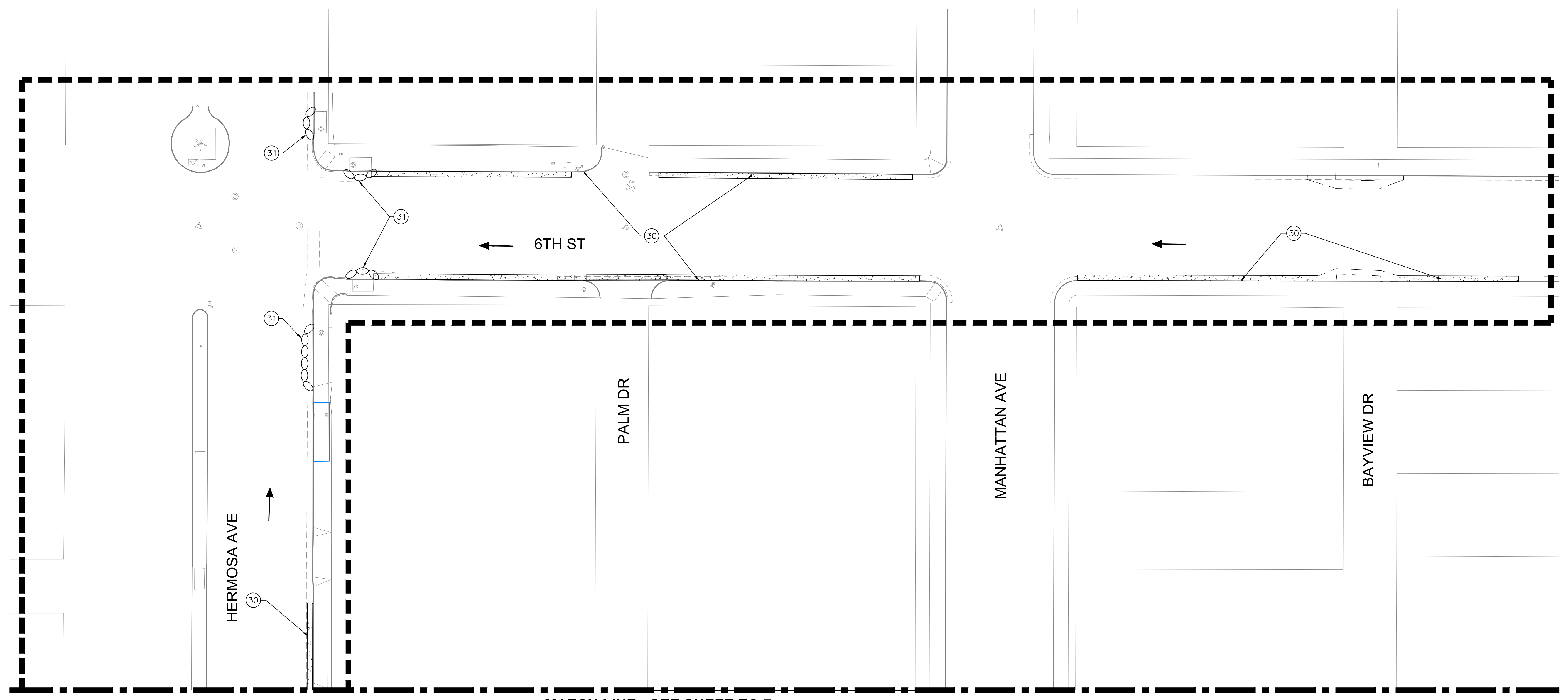
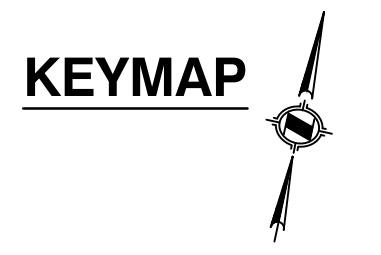
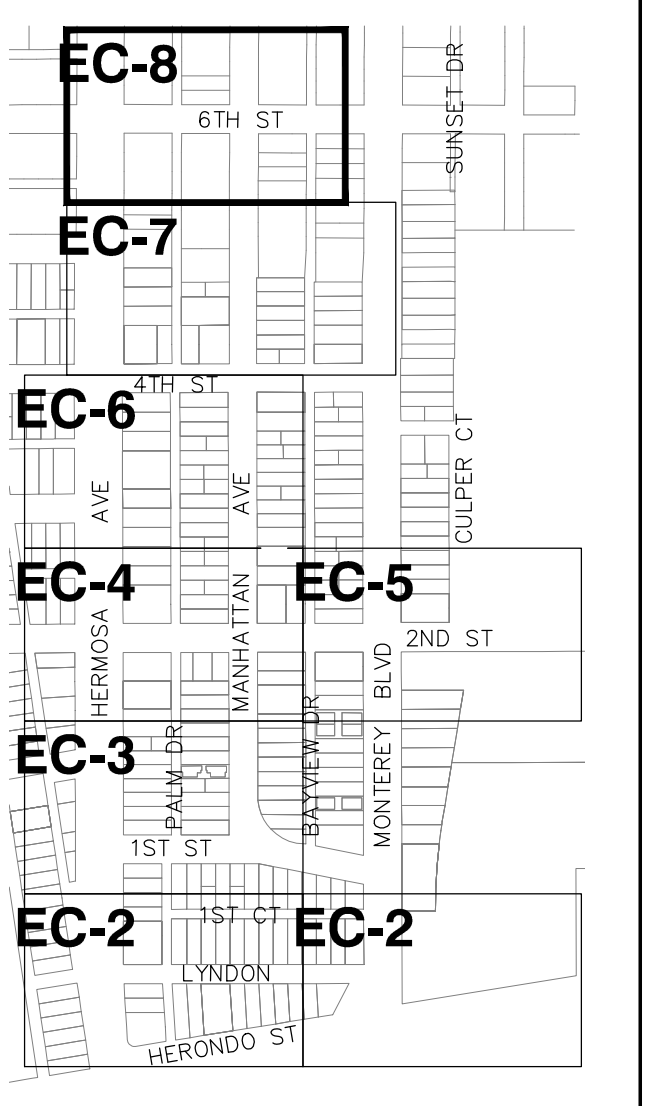
SHT. 19 OF 23

EROSION CONTROL SYMBOLS:

- INLET PROTECTION 
- DIRECTION OF FLOW 
- PROJECT LIMIT 

EROSION CONTROL NOTES:


- ③① — STREET SWEEPING AND VACUUMING (BMP SE-7)
- ③① — INSTALL STORM DRAIN INLET PROTECTION (BMP SE-10)



MATCH LINE - SEE SHEET EC-7

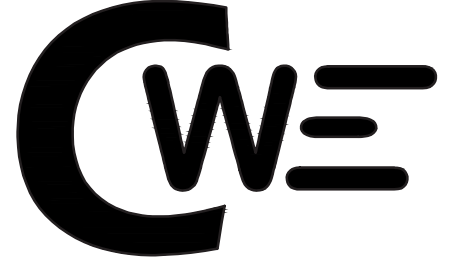
BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
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 (714) 526-7500
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LARRY B. TORTUYA, 71502

9/13/2024
 DATE

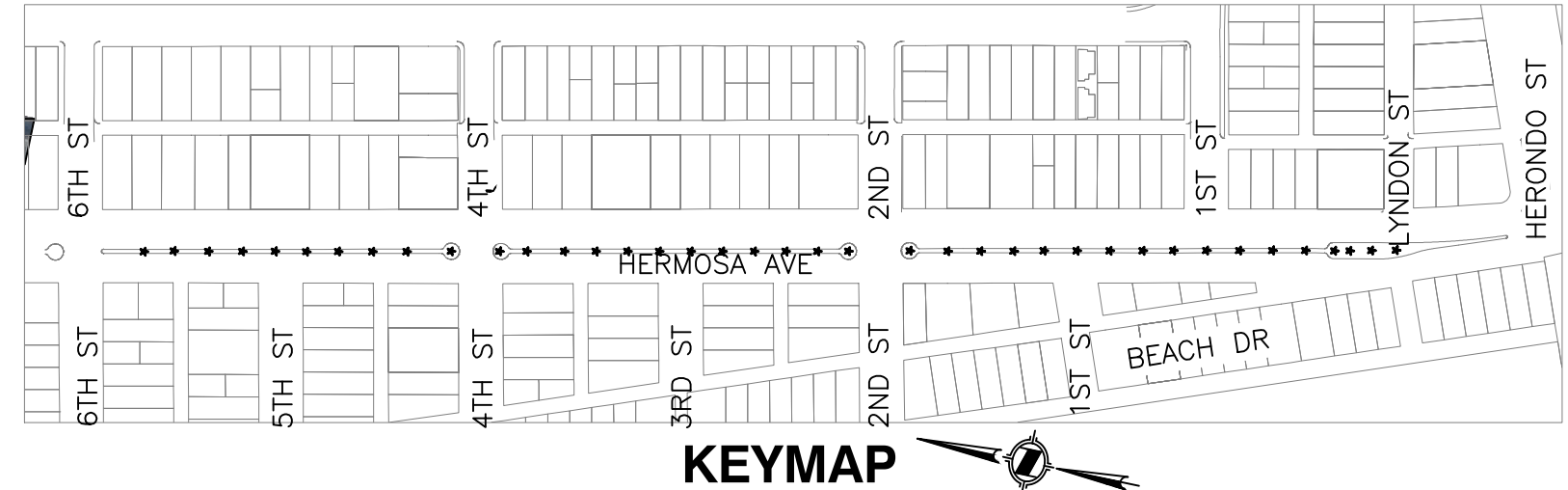
CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:
 Signed by: *John Ostrowi*
 JOHN OSTROWI, ENGINEER
 DATE: 11/05/2024 | 13:09 PST

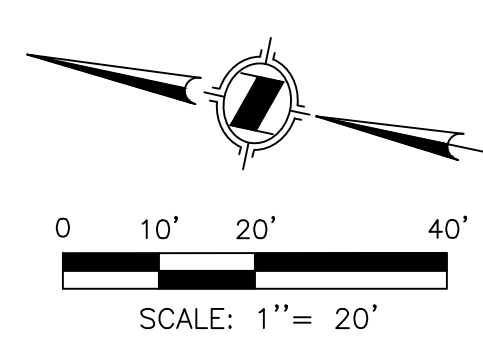
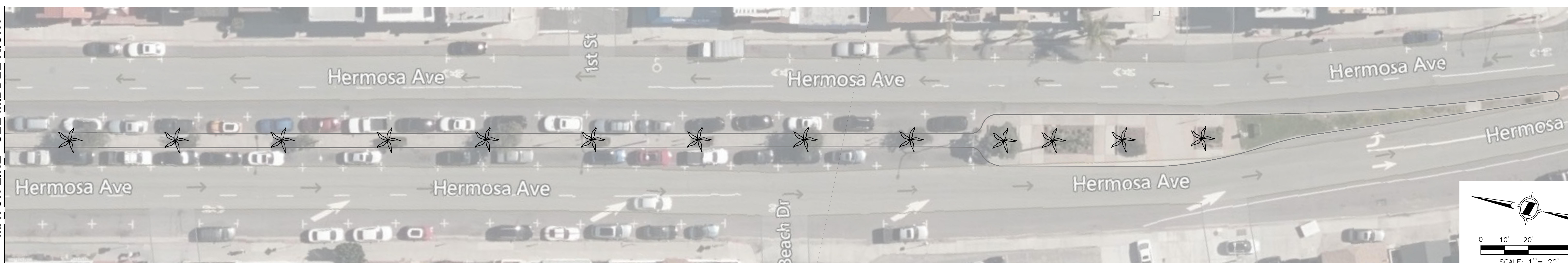
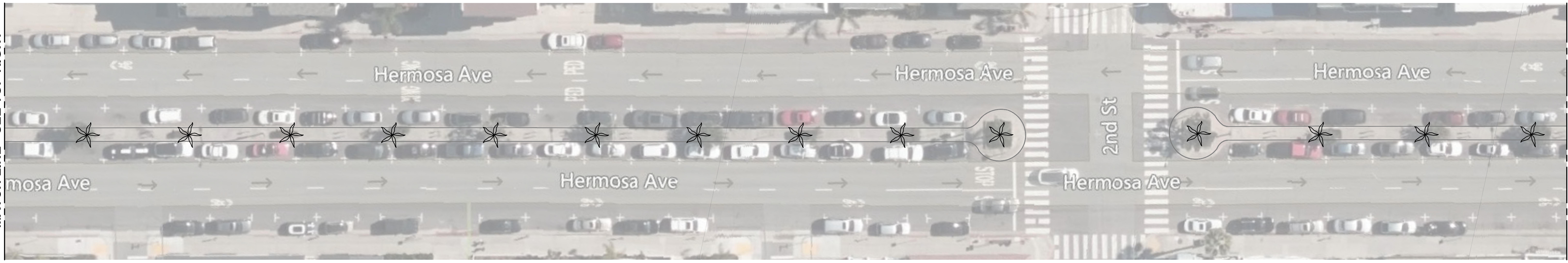
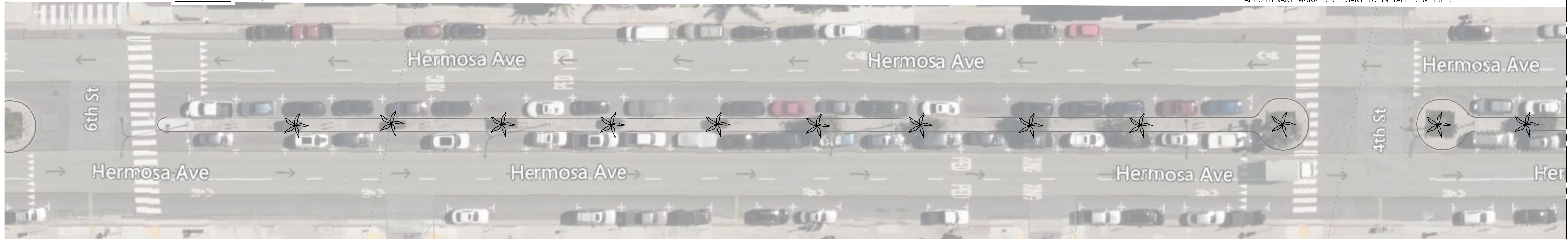
CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 EROSION CONTROL PLAN

FILE NUMBER
 23-011

EC-8
 SHT. 20 OF 23



- GENERAL NOTES:**
1. KING PALM TREE BOX SIZE SHALL BE 24" STANDARD UNLESS OTHERWISE NOTED.
 2. BEFORE TREE INSTALLATION, CONTRACTOR SHALL VERIFY FIELD CONDITIONS (POWER LINES, POWER POLES, GUY WIRES, FIRE HYDRANTS, WATER METERS AND VALVES, UTILITY BOXES) TO AVOID CONFLICTS.
 3. FOR KING PALMS, SEE TREE PLANTING DETAIL ON SHEET C-10.
 4. CONTRACTOR SHALL REMOVE ANY EXISTING BUSH, PLANT, TREE, AND OTHER APPURTENANT WORK NECESSARY TO INSTALL NEW TREE.



BENCH MARK:
 No. 8Y QY 8379, ELEV. (14.158) FEET
 DATE ADJ. _____, QUAD. CITY OF TORRANCE

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 www.cwecorp.com

LARRY B. TORTUYA, 71502

9/13/2024
 DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

RECOMMENDED BY:

 Signed by: John Oskowi
 JOHN OSKOWI, 9299 BEACH BLVD
 DATE

CIP 164
 HERMOSA AVE
 GREEN STREET PROJECT
 LANDSCAPE PLAN

FILE NUMBER
 23-011

L-1

SHT. 21 OF 23

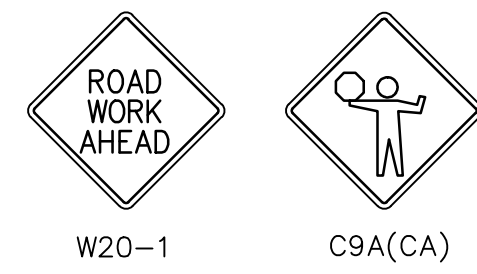
MATCH LINE - SEE MIDDLE LEFT

MATCH LINE - SEE TOP RIGHT

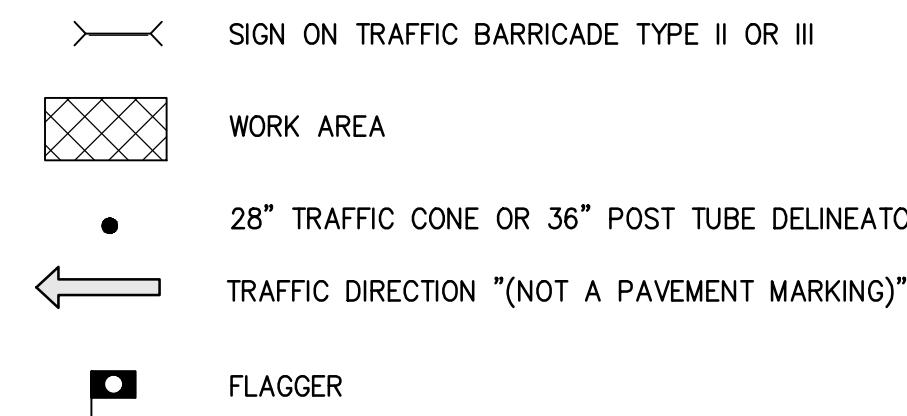
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Z:\20388\06 Tasks\01 Design\01 Hermosa\20388 - LS_TREE EXHIBIT HB PLOTTED: 9/13/2024

TRAFFIC SIGN LEGEND:



TRAFFIC CONTROL LEGEND:

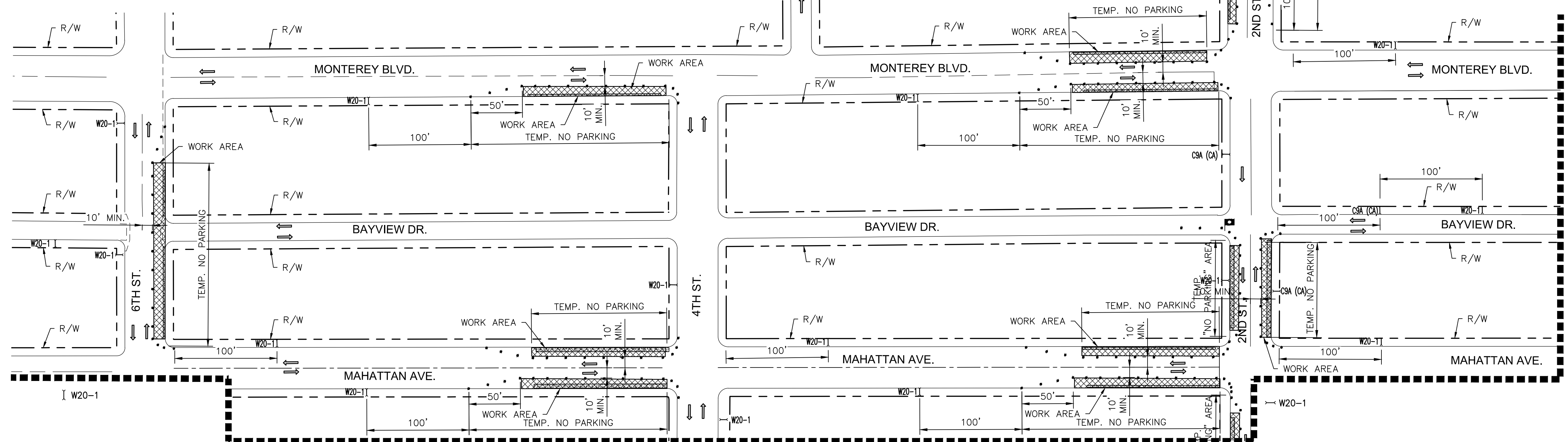


NOTES:

1. POST TEMPORARY NO STOPPING ANY TIME SIGNS AT LEAST 72 HOURS PRIOR TO WORK.
2. NOTIFY AFFECTED TRANSIT AGENCIES AT LEAST 5 DAYS PRIOR TO WORK.
3. NOTIFY AFFECTED RESIDENCES THAT BAYVIEW DR WILL BE CLOSED AT 6TH STREET FOR CONSTRUCTION.

TRAFFIC CONTROL GENERAL NOTES:

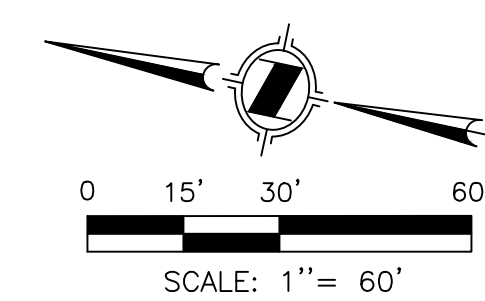
1. ALL WORK AND MATERIAL SHALL COMPLY WITH THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
2. ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
4. FLASHING YELLOW BEACONS, TYPE-B, SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE-III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
5. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
6. ALL TUBULAR DELINEATORS SHALL BE 36" MINIMUM HEIGHT AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE, IF USED DURING NIGHT TIME HOURS.
7. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO INSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC. PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
9. THE CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.
10. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
11. ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADES MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
12. EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED THE CITY ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
13. NO LANE CLOSURES ON ARTERIAL STREET WILL BE PERMITTED BETWEEN THE HOURS OF 7:00 AM AND 9:00 AM OR 3:00 PM AND 6:00 PM.
14. MOVE DELINEATORS AND/OR CONES TO THE EDGE LINE STRIPE DURING NON-WORKING HOURS. REMOVE BARRICADES ETC. FROM TRAVEL LANE. SEE NOTE 11.
15. REMOVE OR TURN SIGNS DURING NON-WORKING HOURS.



MATCH LINE SEE SHEET 14

TRAFFIC CONTROL GENERAL NOTES: (CONTINUATION)

16. ALL CONFLICTING LINES, EXISTING CURB PAINT AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKINGS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO ENSURE NO RUN-OFF TO THE STORM DRAIN SYSTEM.
17. THE CONTRACTOR SHALL REPLACE ANY AND ALL STRIPING AND PAVEMENT MARKINGS DISRUPTED OR REMOVED DURING THIS CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.
18. A MINIMUM OF 5 FEET CLEARANCE SHALL BE MAINTAINED BETWEEN ANY OPEN EXCAVATION AND ADJACENT TRAVEL LANES OPEN TO TRAFFIC.
19. THE CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY THE CITY ENGINEER. FLAGGERS SHALL COMPLY WITH CHAPTER 6E 'FLAGGER CONTROL' OF THE 2014 CA MUTCD.
20. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT (ADA) AS RELATED TO PEDESTRIAN ACCESS AND SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES PER ADA REQUIREMENTS. SIDEWALK CLOSURE/DETOUR SHALL COMPLY WITH THE CALTRANS STANDARDS.
21. PLACE ADDITIONAL 'LANE CLOSED' C30(CA) SIGNS ON TYPE-II BARRICADES AS DIRECTED BY THE CITY ENGINEER THROUGHOUT EXTENDED WORK AREAS IN EACH LANE THAT IS CLOSED. INSTALL 'OPEN TRENCH' C27(CA) SIGNS WHENEVER AN OPEN EXCAVATION AREA EXISTS ADJACENT TO THE TRAVELED WAY.
22. THE CONTRACTOR SHALL POST SYMBOL 'UNEVEN LANES', 'STEEL PLATES AHEAD' OR 'BUMP' SIGNS FOR PAVEMENT SURFACE DISRUPTIONS OF 1/2 INCH OR GREATER. PAVEMENT DISRUPTIONS OF 1 INCH OR GREATER SHALL HAVE A BEVELED EDGE OF FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
23. THE CONTRACTOR SHALL INSTALL 'CAUTION STEEL PLATES AHEAD' AND/OR 'ROUGH ROAD' SIGNS IN ADVANCE OF STEEL PLATE BRIDGING.
24. THE CONTRACTOR SHALL NOTIFY _____ AT _____ OR ANY OTHER AFFECTED TRANSIT SERVICES AT LEAST TEN WORKING DAYS PRIOR TO CONSTRUCTION REGARDING ANY AFFECTED LOCATIONS.
25. THE CONTRACTOR SHALL NOTIFY AFFECTED SCHOOLS, BUSINESSES, HOME OWNERS, POLICE AND FIRE DEPARTMENTS ONE (1) WEEK PRIOR TO START OF WORK.
26. PROVIDE THE CONTRACTOR'S 24 HOUR CONTACT AND TELEPHONE NUMBER FOR RESPONSE TO TRAFFIC CONTROL ISSUES.
27. THE CONTRACTOR SHALL CONTACT, A MINIMUM OF FIVE (5) BUSINESS DAYS IN ADVANCE, THE CITY'S TRAFFIC SIGNAL ENGINEER TO ASSURE IMPLEMENTATION OF PROPER TIMING OF AFFECTED TRAFFIC SIGNALS. THE PROPER TRAFFIC SIGNAL TIMING SHALL BE IN EFFECT AT ALL TIMES THAT THE ASSOCIATED TRAFFIC CONTROLS ARE IN PLACE.



BENCH MARK:
No. 8Y QY 8379, ELEV. (14.158) FEET
DATE ADJ. _____, QUAD. CITY OF TORRANCE

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No.	DESCRIPTION	DATE

PLANS PREPARED BY:
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LARRY B. TORTUYA, 71502

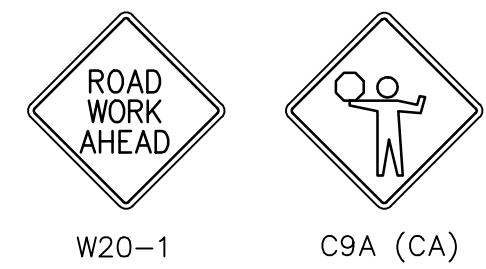
9/13/2024 DATE

CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:
Signed by: John Oskowi 11/05/2024 | 13:09 PST
JOHN OSKOWI, CIVIL ENGINEER DATE

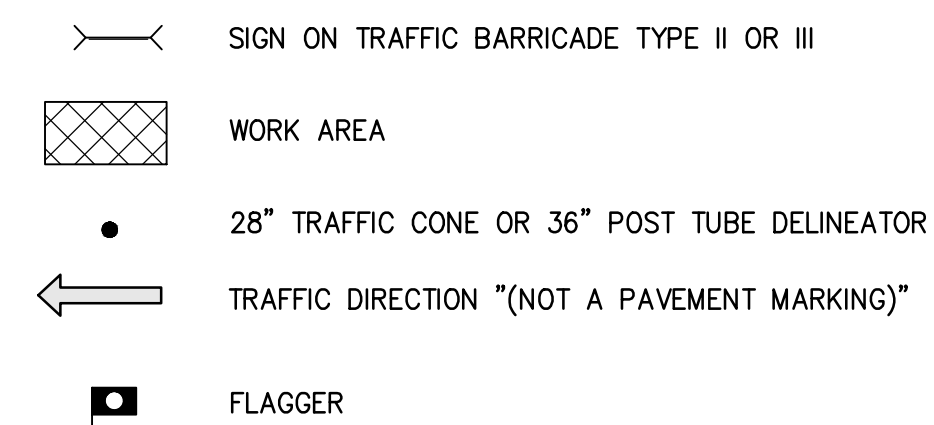
CIP 164
HERMOSA AVE
GREEN STREET PROJECT
TRAFFIC CONTROL PLAN

FILE NUMBER 23-011
C-13
SHT. 22 OF 23

TRAFFIC SIGN LEGEND:

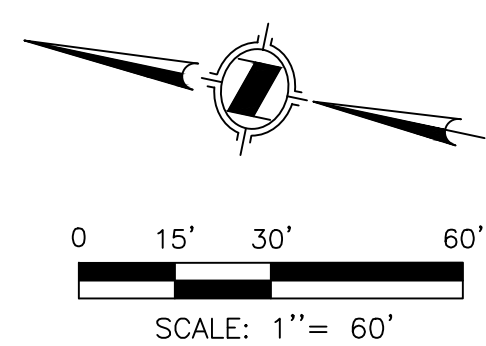
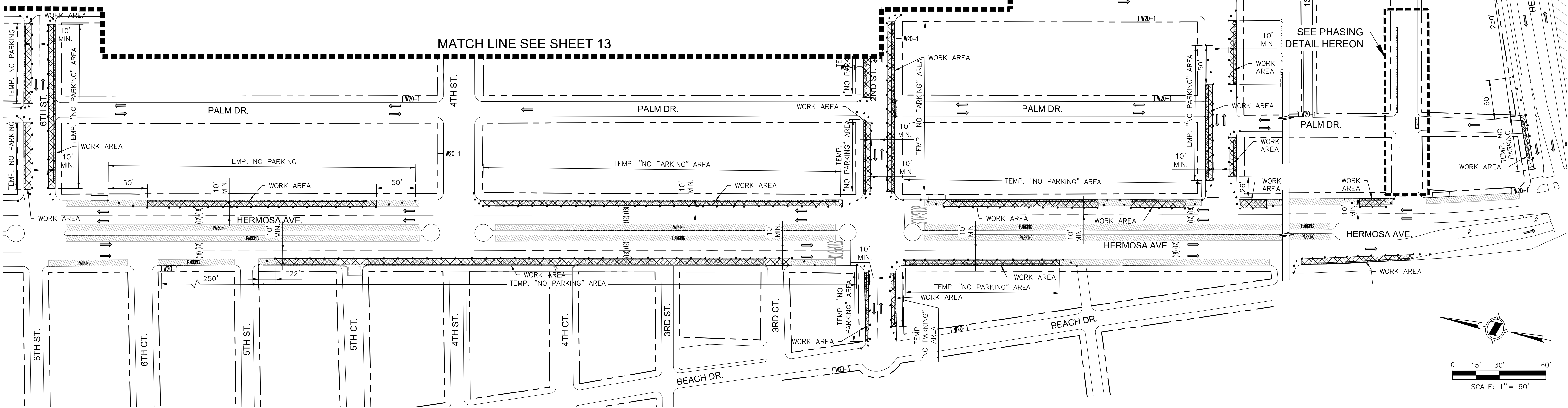
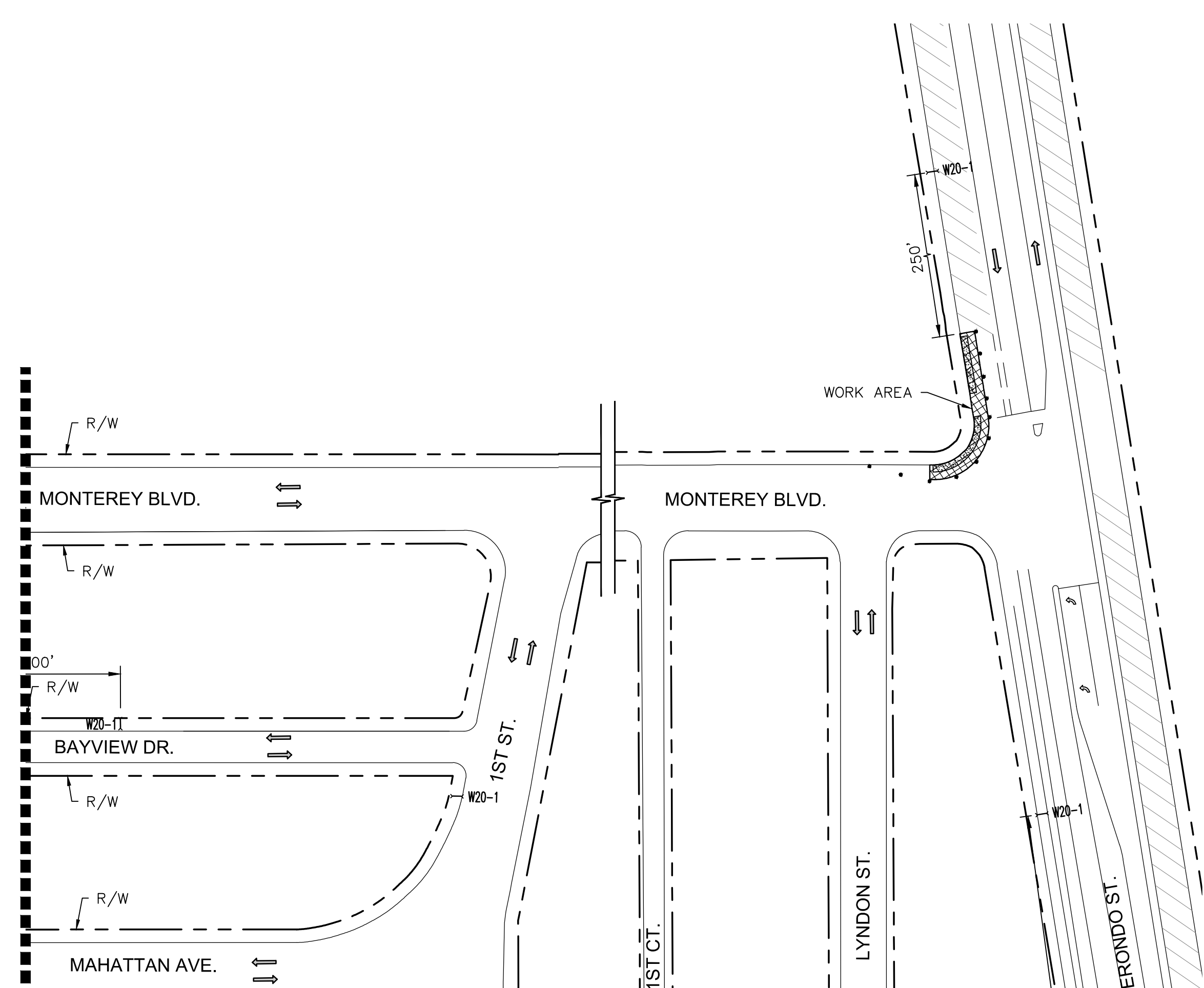
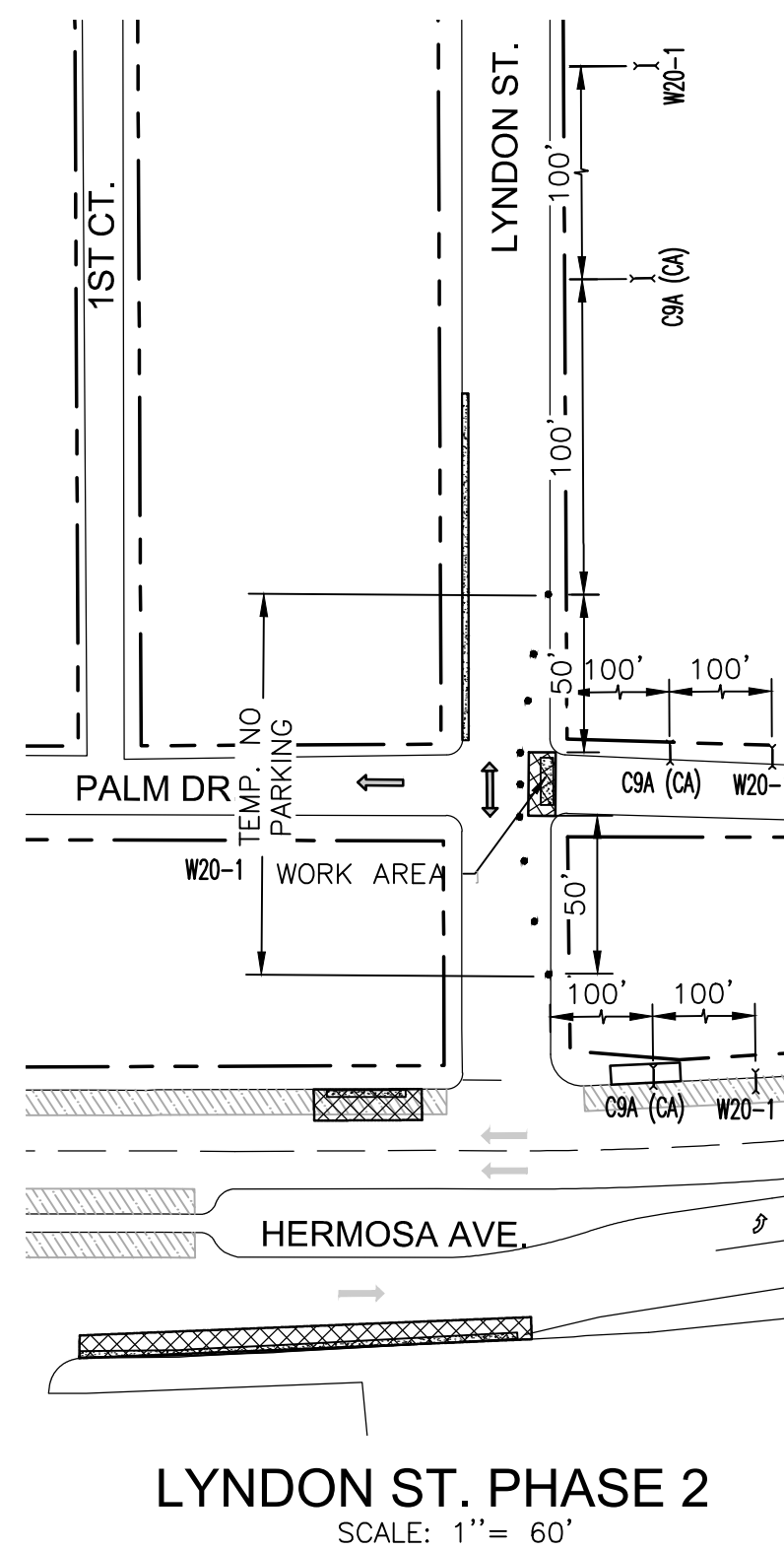
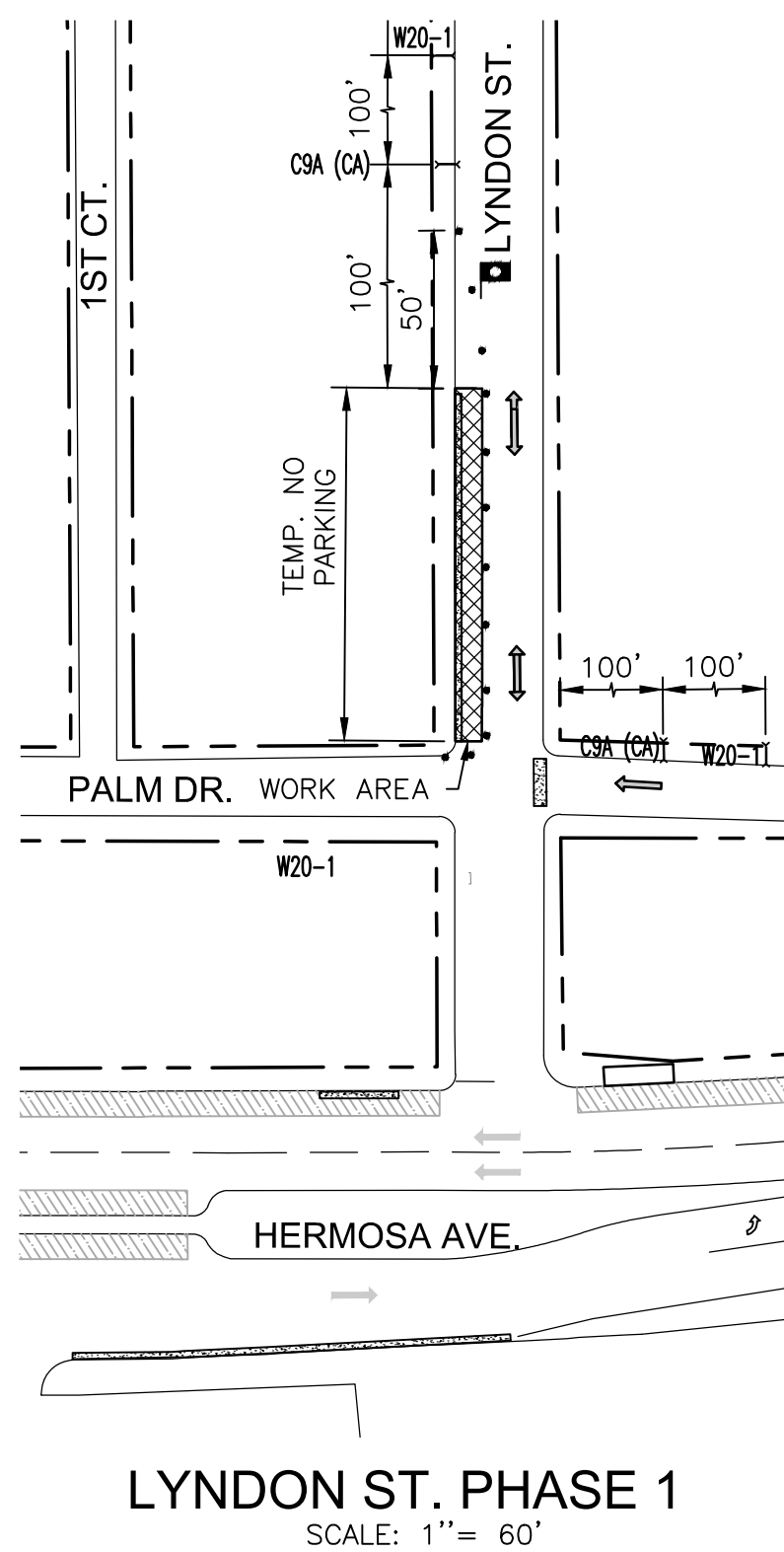


TRAFFIC CONTROL LEGEND:



NOTES:

1. POST TEMPORARY NO STOPPING ANY TIME SIGNS AT LEAST 72 HOURS PRIOR TO WORK.
2. NOTIFY AFFECTED TRANSIT AGENCIES AT LEAST 5 DAYS PRIOR TO WORK.
3. NOTIFY AFFECTED RESIDENCES THAT BAYVIEW DR WILL BE CLOSED AT 6TH STREET FOR CONSTRUCTION.
4. NOTIFY AFFECTED RESIDENCES THAT PALM DR WILL BE CLOSED AT 6TH ST FOR CONSTRUCTION. PALM DR WILL BE TEMPORARY 2-WAY STREET DURING CONSTRUCTION.
5. NOTIFY AFFECTED LOCAL BUSINESSES WITH OUTDOOR DINING DECK AREA 10 BUSINESS DAYS PRIOR CONSTRUCTION.



BENCH MARK:
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SUITE 240
FULLERTON, CA 92831
(714) 526-7500
www.cwecorp.com

LARRY B. TORTUYA, 71502

9/13/2024
DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED BY:
Signed by: John Ostrowi
JOHN OSTROWI, CIVIL ENGINEER
DATE

CIP 164
HERMOSA AVE
GREEN STREET PROJECT
TRAFFIC CONTROL PLAN

FILE NUMBER
23-011
C-14
SHT. 23 OF 23