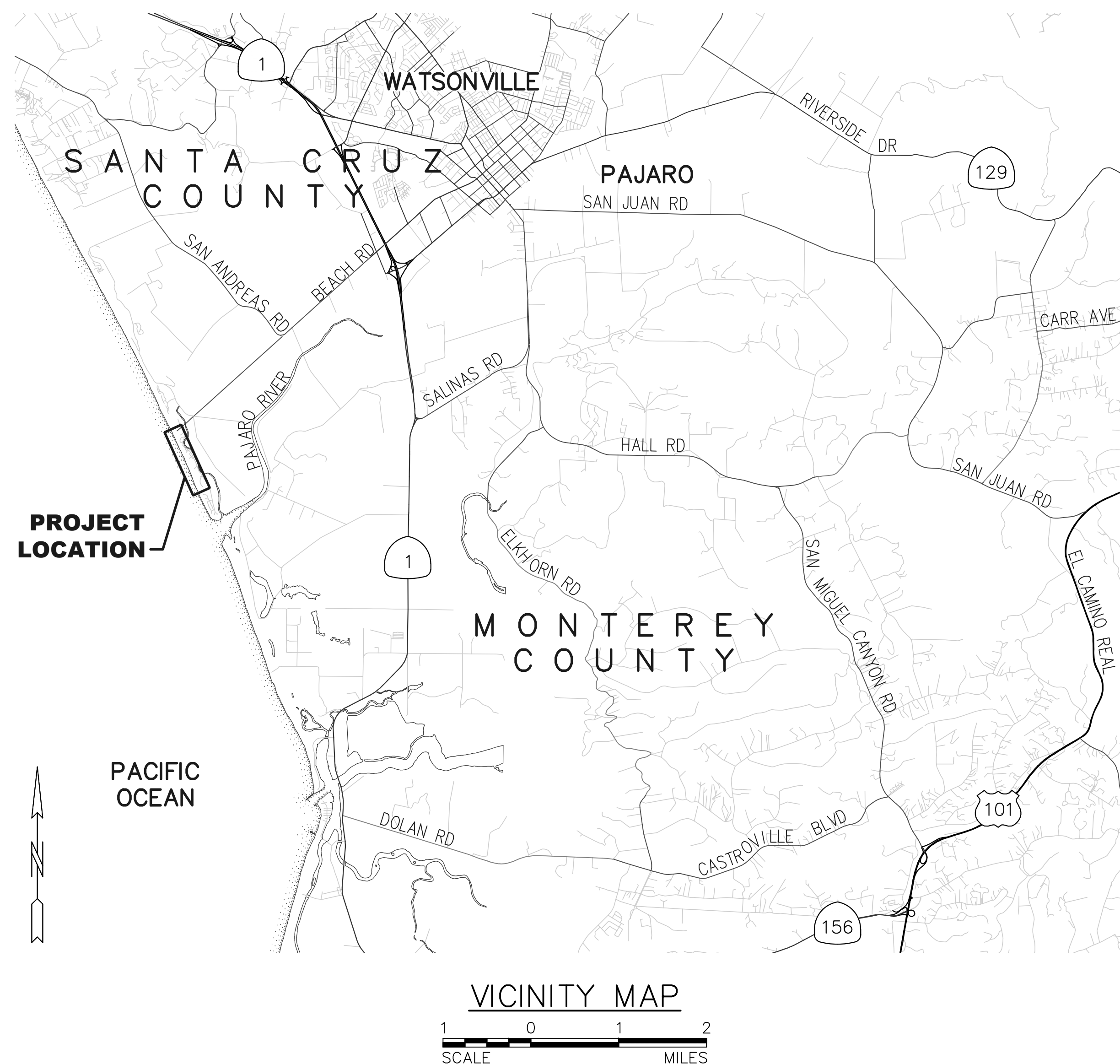


PAJARO DUNES GHAD

ROCK REVETMENT MAINTENANCE LOTS 1-12, 15, 54-55, 94-103, AND 107 PAJARO DUNES RESORT WATSONVILLE, CALIFORNIA

MARCH 2023



GENERAL NOTES

1. STANDARD SPECIFICATIONS

ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, 2018 EDITION, UNLESS OTHERWISE NOTED ON THESE PLANS.

2. PERMITS

THE OWNER WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

3. TRAFFIC CONTROL AND PUBLIC SAFETY

THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGGING, AND OTHER DEVICES NECESSARY FOR TRAFFIC CONTROL AND PUBLIC SAFETY.

4. EXISTING FACILITIES

EXISTING SITE IMPROVEMENTS TO REMAIN MAY INTERFERE WITH THE WORK. THESE FACILITIES SHALL BE PROTECTED OR REMOVED AND REPLACED WITH LIKE KIND AND QUALITY AT THE CONTRACTOR'S EXPENSE.

5. SITE INFORMATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL ABOVE GROUND AND UNDERGROUND FACILITIES WHICH MAY BE AFFECTED BY HIS OPERATIONS. THE CONTRACTOR SHALL CONTACT OWNERS OF THESE FACILITIES AND SHALL PROTECT FACILITIES AND MAINTAIN SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 AT LEAST THREE WORKING DAYS PRIOR TO CONSTRUCTION.

DIMENSIONS AND LIMITS OF WORK SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SUBJECT TO CHANGE BASED ON CONDITIONS ENCOUNTERED. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

6. INSPECTIONS

ENGINEERING INSPECTIONS WILL BE CARRIED OUT BY CAL ENGINEERING & GEOLOGY, INC. (925) 935-9771. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AT LEAST TWO WORKING DAYS PRIOR TO ALL REQUIRED INSPECTIONS.

7. STAGING RESTORATION

STAGING AREAS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION. CONTRACTOR SHALL DOCUMENT THE PRE-CONSTRUCTION CONDITION OF ALL STAGING AREAS AND ACCESS ROUTES PRIOR TO CONSTRUCTION. PAVEMENT AREAS SHALL BE RESTORED BY REMOVING AND REPLACING THE DAMAGED PAVEMENT WITH 3" AC (TYPE A) OVER 6" CLASS 2 AB AS DIRECTED BY THE ENGINEER.

DESCRIPTION OF WORK

THE WORK SHALL CONSIST IN GENERAL OF PROVIDING ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE REVETMENT MAINTENANCE PROJECT. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, MOBILIZATION, WATER POLLUTION CONTROL, TRAFFIC CONTROL, ESTABLISHING SITE ACCESS AND STAGING AREAS, CLEARING AND GRUBBING, EXCAVATION SHORING AS REQUIRED, TEMPORARY EXCAVATION AND BACKFILL IN SAND, AND RELOCATING AND STACKING EXISTING BURIED REVETMENT ROCKS.

CONTRACTOR LICENSE

THE CONTRACTOR SHALL POSSESS A VALID CLASS A LICENSE AT THE TIME THE CONTRACT IS AWARDED.

INDEX OF SHEETS

1. TITLE SHEET
2. TYPICAL SECTION
3. PROJECT CONTROL
4. SITE ACCESS AND STAGING AREAS
- 5.-9. SITE PLAN
- 10.-16. SECTIONS


STANDARD PLANS

THE FOLLOWING STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS, 2010 EDITION, APPLY:

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)

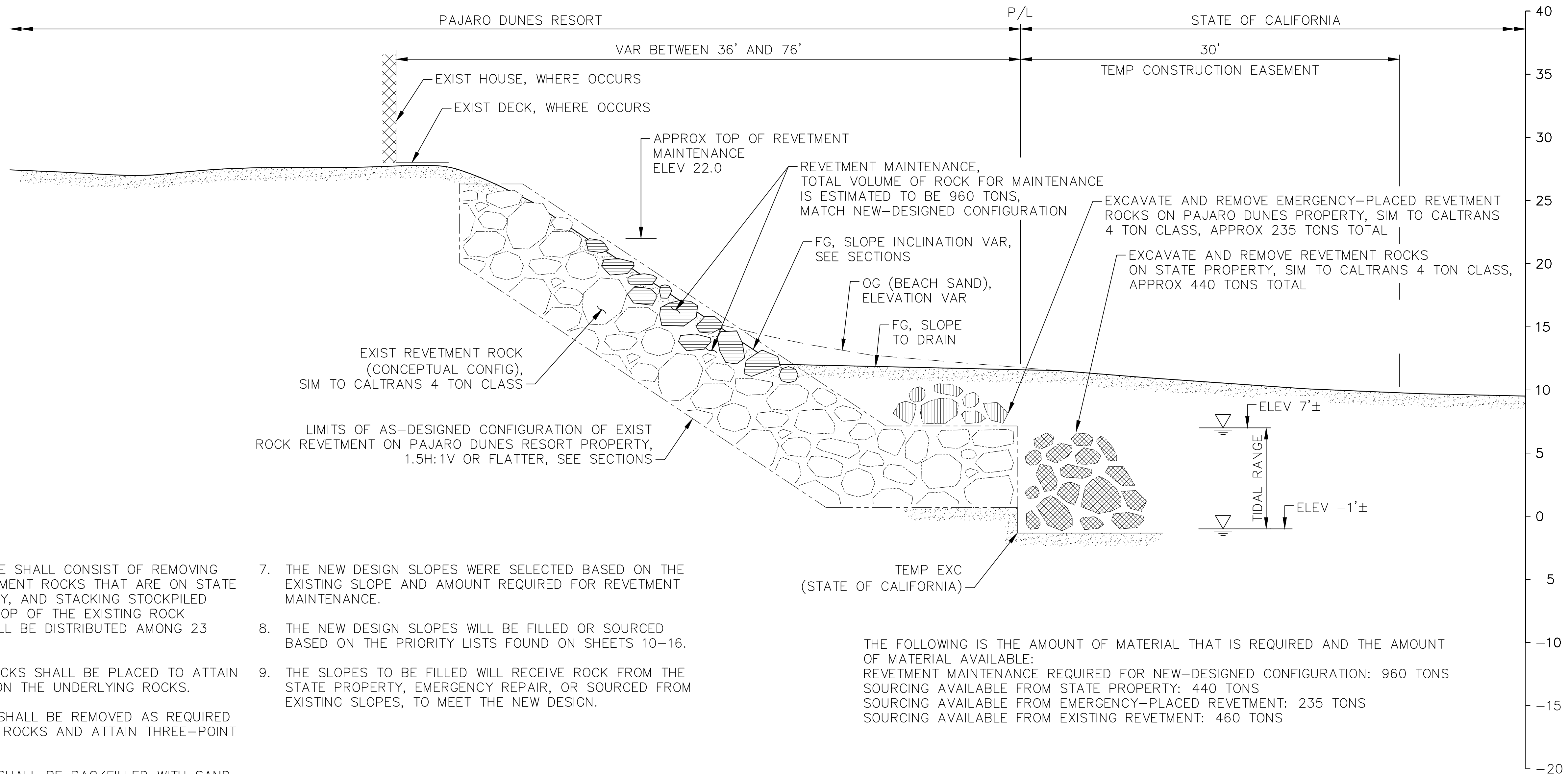


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NOT FOR CONSTRUCTION
MAY 2023**

 CAL ENGINEERING & GEOLOGY 785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD			
		ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA TITLE SHEET			
DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780	DATE MAY 2023	SHEET NO. OF 1 OF 16

Y:\2019\190782-PajaroDunesGHAD-O&M\AutoCAD-0&M\AutoCAD-0&M\AutoCAD-TITLE-SHEET.dwg 5-05-23 05:03:02 PM credi

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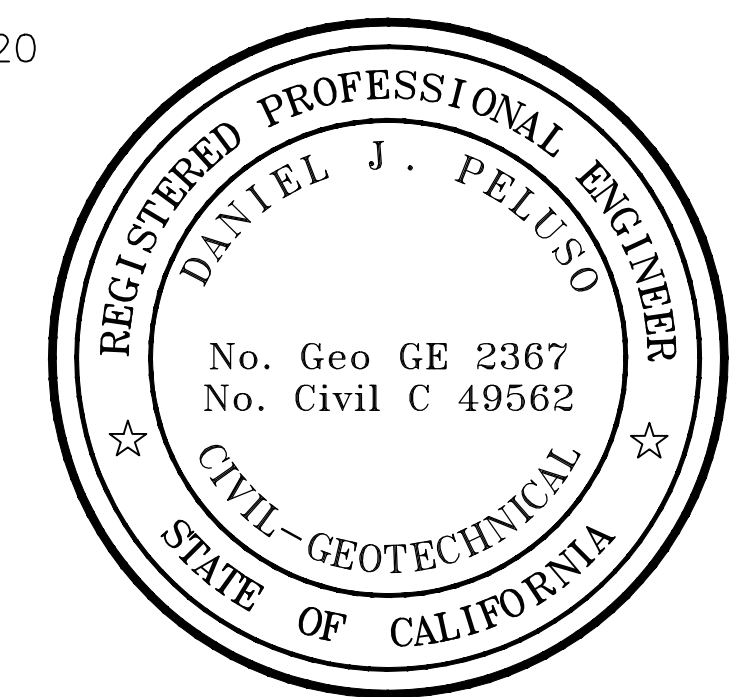


NOTES

1. REVETMENT MAINTENANCE SHALL CONSIST OF REMOVING AND STOCKPILING REVETMENT ROCKS THAT ARE ON STATE OF CALIFORNIA PROPERTY, AND STACKING STOCKPILED REVETMENT ROCKS ON TOP OF THE EXISTING ROCK REVETMENT. ROCKS SHALL BE DISTRIBUTED AMONG 23 PARCELS.
2. STACKED REVETMENT ROCKS SHALL BE PLACED TO ATTAIN THREE-POINT BEARING ON THE UNDERLYING ROCKS.
3. VEGETATION AND SAND SHALL BE REMOVED AS REQUIRED TO EXPOSE UNDERLYING ROCKS AND ATTAIN THREE-POINT BEARING PLACEMENT.
4. VOIDS BETWEEN ROCKS SHALL BE BACKFILLED WITH SAND TO THE FINISHED GRADE LINES SHOWN.
5. SHOP DRAWINGS AND CALCULATIONS FOR CONTRACTOR-DESIGNED SHORING SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE SHOP DRAWINGS SHOULD DESCRIBE HOW THE SHORING WILL PROTECT THE EXISTING REVETMENT DURING SAND EXCAVATION.
6. NEW REVETMENT DESIGN SLOPES FOUND IN CROSS-SECTIONS (SHEETS 10-16) ARE BASED OFF OF THE ORIGINAL DESIGN BY ROGERS E. JOHNSON & ASSOCIATES (1986) AND THE EMERGENCY REPAIR BY HARO, KASUNICH & ASSOCIATES (2003). SEE ATTACHED DOCUMENTS.
7. THE NEW DESIGN SLOPES WERE SELECTED BASED ON THE EXISTING SLOPE AND AMOUNT REQUIRED FOR REVETMENT MAINTENANCE.
8. THE NEW DESIGN SLOPES WILL BE FILLED OR SOURCED BASED ON THE PRIORITY LISTS FOUND ON SHEETS 10-16.
9. THE SLOPES TO BE FILLED WILL RECEIVE ROCK FROM THE STATE PROPERTY, EMERGENCY REPAIR, OR SOURCED FROM EXISTING SLOPES, TO MEET THE NEW DESIGN.

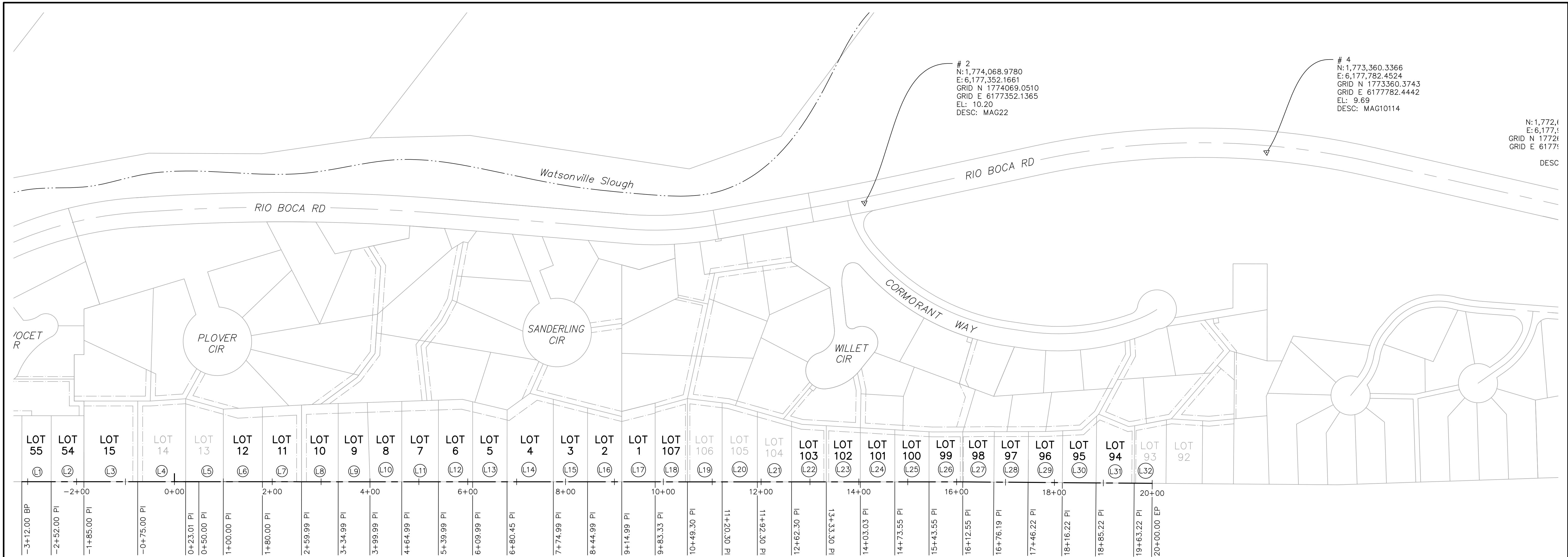
THE FOLLOWING IS THE AMOUNT OF MATERIAL THAT IS REQUIRED AND THE AMOUNT OF MATERIAL AVAILABLE:
 REVETMENT MAINTENANCE REQUIRED FOR NEW-DESIGNED CONFIGURATION: 960 TONS
 SOURCING AVAILABLE FROM STATE PROPERTY: 440 TONS
 SOURCING AVAILABLE FROM EMERGENCY-PLACED REVETMENT: 235 TONS
 SOURCING AVAILABLE FROM EXISTING REVETMENT: 460 TONS

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CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD	
		ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA TYPICAL SECTION			
DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780	DATE MAY 2023	SHEET NO. OF 2 OF 16

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2
 N: 1,774,068.9780
 E: 6,177,352.1661
 GRID N 1774069.0510
 GRID E 6177352.1365
 EL: 10.20
 DESC: MAG22

4
 N: 1,773,360.3366
 E: 6,177,782.4524
 GRID N 1773360.3743
 GRID E 6177782.4442
 EL: 9.69
 DESC: MAG10114

N: 1,772,1
 E: 6,177,1
 GRID N 17721
 GRID E 61771
 DESC

LOT	STATIONING	PI
LOT 55	-3+12.00	BP
LOT 54	-2+52.00	PI
LOT 15	-1+85.00	PI
LOT 14	-0+75.00	PI
LOT 13	0+23.01	PI
LOT 13	0+50.00	PI
LOT 12	1+00.00	PI
LOT 11	1+80.00	PI
LOT 10	2+59.99	PI
LOT 9	3+34.99	PI
LOT 8	3+99.99	PI
LOT 7	4+64.99	PI
LOT 6	5+39.99	PI
LOT 5	6+09.99	PI
LOT 4	6+80.45	PI
LOT 3	7+74.99	PI
LOT 2	8+44.99	PI
LOT 1	9+14.99	PI
LOT 107	9+83.33	PI
LOT 106	10+49.30	PI
LOT 105	11+20.30	PI
LOT 104	11+05.26	PI
LOT 103	12+62.30	PI
LOT 102	13+05.33	PI
LOT 101	14+03.03	PI
LOT 100	14+73.55	PI
LOT 99	15+43.55	PI
LOT 98	16+12.55	PI
LOT 97	16+76.19	PI
LOT 96	17+46.22	PI
LOT 95	18+16.22	PI
LOT 94	18+85.22	PI
LOT 93	19+63.22	PI
LOT 92	20+00.00	EP

LAYOUT LINE (LOL)					
SEGMENT	LENGTH	BEARING	START STATION	START NORTHING	START EASTING
L1	60.00'	S24°05'08"E	-3+12.00	1775409.28	6176127.69
L2	67.00'	S24°05'08"E	-2+52.00	1775354.50	6176152.18
L3	110.00'	S24°05'08"E	-1+85.00	1775293.33	6176179.52
L4	98.01'	S24°05'08"E	-0+75.00	1775192.91	6176224.41
L5	50.00'	S24°05'08"E	0+50.00	1775078.79	6176275.42
L6	80.00'	S24°05'08"E	1+00.00	1775033.14	6176295.83
L7	79.99'	S24°05'08"E	1+80.00	1774960.10	6176328.48
L8	75.00'	S24°05'08"E	2+59.99	1774887.08	6176361.12
L9	65.00'	S24°05'08"E	3+34.99	1774818.61	6176391.73
L10	65.00'	S24°05'08"E	3+99.99	1774759.26	6176418.26
L11	75.00'	S24°05'08"E	4+64.99	1774699.92	6176444.78
L12	70.00'	S24°05'08"E	5+39.99	1774631.45	6176475.39
L13	70.46'	S24°05'08"E	6+09.99	1774567.55	6176503.96
L14	94.54'	S24°05'08"E	6+80.45	1774503.22	6176532.71
L15	70.00'	S24°05'08"E	7+74.99	1774416.91	6176571.29
L16	70.00'	S24°05'08"E	8+44.99	1774353.01	6176599.86

LAYOUT LINE (LOL)					
SEGMENT	LENGTH	BEARING	START STATION	START NORTHING	START EASTING
L17	68.34'	S24°05'08"E	9+14.99	1774289.10	6176628.43
L18	65.97'	S24°01'29"E	9+83.33	1774226.71	6176656.32
L19	71.00'	S24°05'59"E	10+49.30	1774166.46	6176683.18
L20	72.00'	S24°07'38"E	11+20.30	1774101.65	6176712.17
L21	70.00'	S24°03'31"E	11+92.30	1774035.94	6176741.60
L22	71.00'	S24°06'43"E	12+62.30	1773972.02	6176770.13
L23	69.73'	S24°05'08"E	13+33.30	1773907.21	6176799.14
L24	70.52'	S24°05'08"E	14+03.03	1773843.55	6176827.60
L25	70.00'	S24°05'08"E	14+73.55	1773779.17	6176856.38
L26	69.00'	S24°05'08"E	15+43.55	1773715.27	6176884.94
L27	63.64'	S23°40'04"E	16+12.55	1773652.27	6176913.10
L28	70.02'	S23°40'04"E	16+76.19	1773593.99	6176938.65
L29	70.00'	S23°39'18"E	17+46.22	1773529.85	6176966.76
L30	69.00'	S23°39'18"E	18+16.22	1773465.74	6176994.84
L31	78.00'	S23°39'18"E	18+85.22	1773402.53	6177022.53
L32	36.78'	S23°39'18"E	19+63.22	1773331.09	6177053.82

LEGEND
 △ BENCHMARK
 — PROPERTY LINE
 - - - EASEMENT

UAV DATA REFERENCE
 1. CONTOURS CALCULATED FROM PHOTOGRAMMETRICALLY-DERIVED DIGITAL ELEVATION MODEL, UAV FLIGHT PERFORMED ON 18 NOVEMBER 2019.
 2. HIGH RESOLUTION ORTHOIMAGERY CAPTURED BY CE&G ON 18 NOVEMBER 2019.
 HORIZONTAL DATUM: COORDINATES ARE APPROXIMATE TO NAD83 CALIFORNIA ZONE 3 VALUES.
 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

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 NOT FOR CONSTRUCTION
 MAY 2023**



 CAL ENGINEERING & GEOLOGY	785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA PROJECT CONTROL	
	DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780

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NOTES

1. VEHICULAR ACCESS TO THE BEACH SHALL BE LIMITED TO THE PRIMARY AND SECONDARY VEHICULAR ACCESS ROUTES SHOWN. BEACH ACCESS FROM THE PARKING AREAS ALONG RIO BOCA ROAD SHALL BE LIMITED TO PEDESTRIANS ONLY.

LEGEND

- SITE ACCESS
- POTENTIAL STAGING AREA (PARKING LOT), PEDESTRIAN ACCESS ONLY
- POTENTIAL STAGING AREA (UNDEVELOPED)

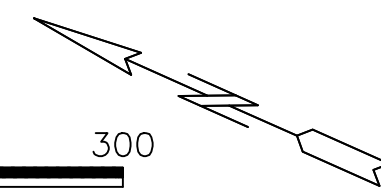
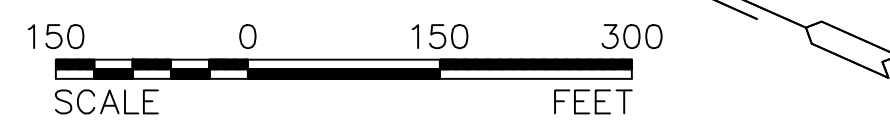
TEMPORARY CONSTRUCTION EASEMENT

POINT TABLE		
#	NORTHING	EASTING
#1	1773297.39	6177068.58
#2	1773285.36	6177041.10
#3	1775020.90	6176268.44
#4	1775024.98	6176277.57
#5	1777588.94	6175128.90
#6	1777600.92	6175145.45

BASEMAP REFERENCE

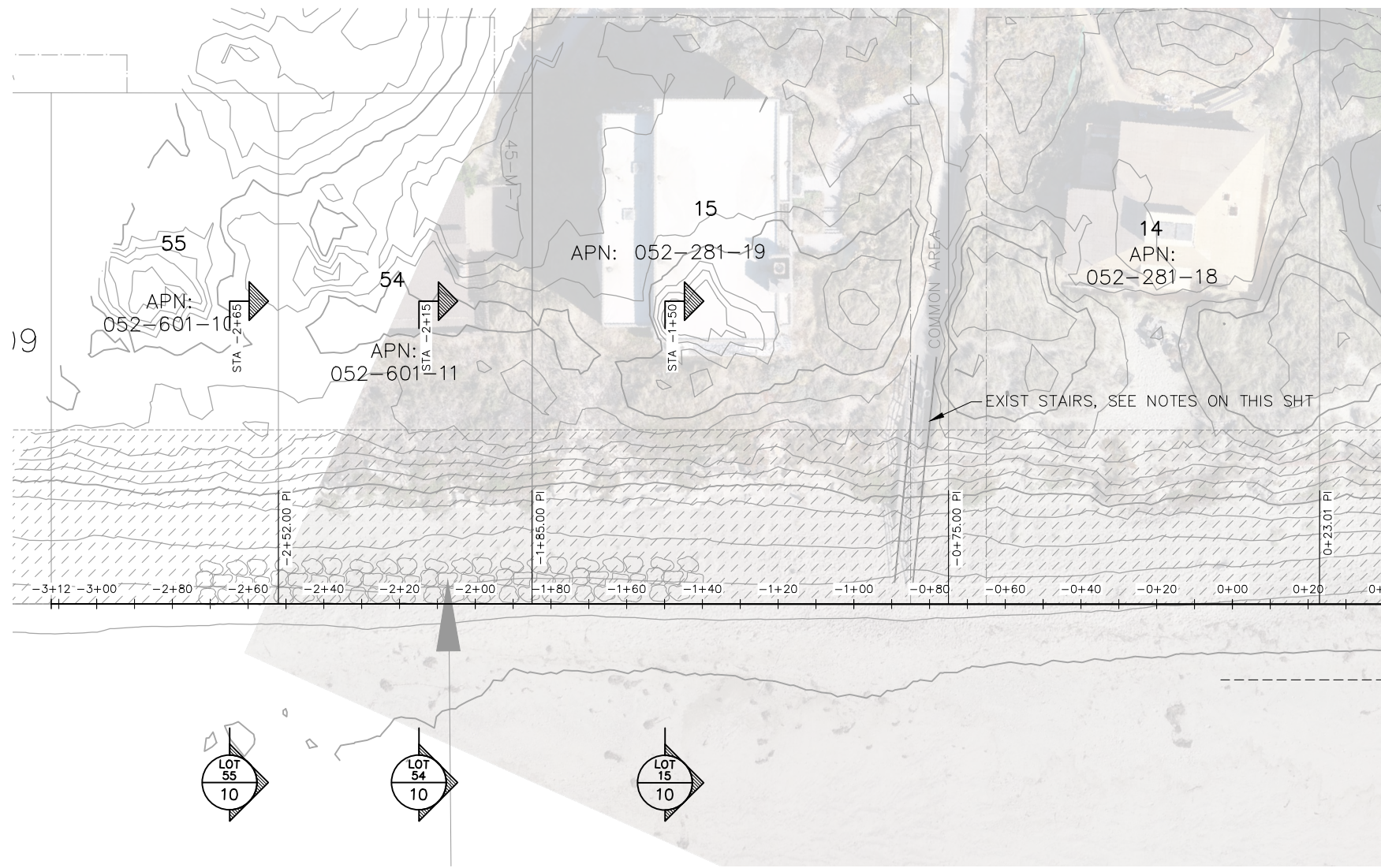
1. ORTHOIMAGERY FROM SANTA CRUZ COUNTY, 2016.

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NOT FOR CONSTRUCTION
MAY 2023**



CE&G CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SITE ACCESS AND STAGING AREA	
		DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780

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MATCH LINE STA 0+40, SEE SHEET 6

NOTES

1. THE REVETMENT MAINTENANCE SHALL EXTEND BELOW THE EXISTING STAIRS.
2. THE CONTRACTOR MAY ELECT TO REMOVE PORTIONS OF STAIRS BEFORE CONSTRUCTION. STAIRS REMOVED BEFORE CONSTRUCTION OR STAIRS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND WITH NEW MATERIALS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR THE PORTIONS OF THE STAIRS THAT ARE REPAIRED OR REPLACED. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

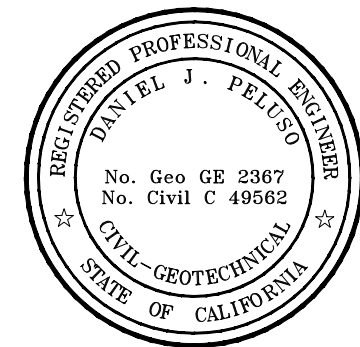
NEW STAIR MATERIALS

1. STRUCTURAL TIMBER AND LUMBER SHALL BE BROWN PRESSURE-TREATED DOUGLAS FIR NO. 1 OR BETTER.
2. BOLTS SHALL BE ASTM A307 GRADE A. NUTS SHALL BE AMERICAN STANDARD HEAVY, SEMI-FINISHED HEXAGON TAPPED, UNC THREAD SERIES, CLASS 2B. WASHERS SHALL BE OVERSIZED. ALL PARTS SHALL BE HOT-DIP GALVANIZED PER ASTM A153 CLASS C.
3. BOLT HOLES SHALL BE AT LEAST A MINIMUM OF 1/32" AND NO MORE THAN A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
4. ALL NAILS SHALL BE 16d HOT-DIP GALVANIZED. PNEUMATIC NAILING SHALL NOT BE PERMITTED.
5. ALL HARDWARE SHALL BE GALVANIZED AND SHALL MEET ASTM A653 BY THE HOT-DIP PROCESS, G-185 COATING.

EMERGENCY-PLACED ROCK

THE KNOWN LOCATIONS OF THE BURIED EMERGENCY-PLACED ROCK ARE IN THE FOLLOWINGS LOCATIONS:

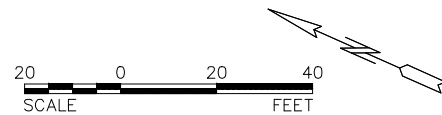
1. ON STATE PARKS PROPERTY IN FRONT OF THE REVETMENT TOE ADJACENT TO LOTS 98, 99, 100, AND 103. TOTAL OF APPROX 440 TONS.
2. ON PAJARO DUNES PROPERTY OVERLYING THE ROCK REVETMENT TOE ON LOTS 15, 54, 55, 103, AND 104. TOTAL OF APPROX 235 TONS.



LEGEND

	REVETMENT MAINTENANCE
	EXISTING RSP
	EXISTING RSP, BURRIED

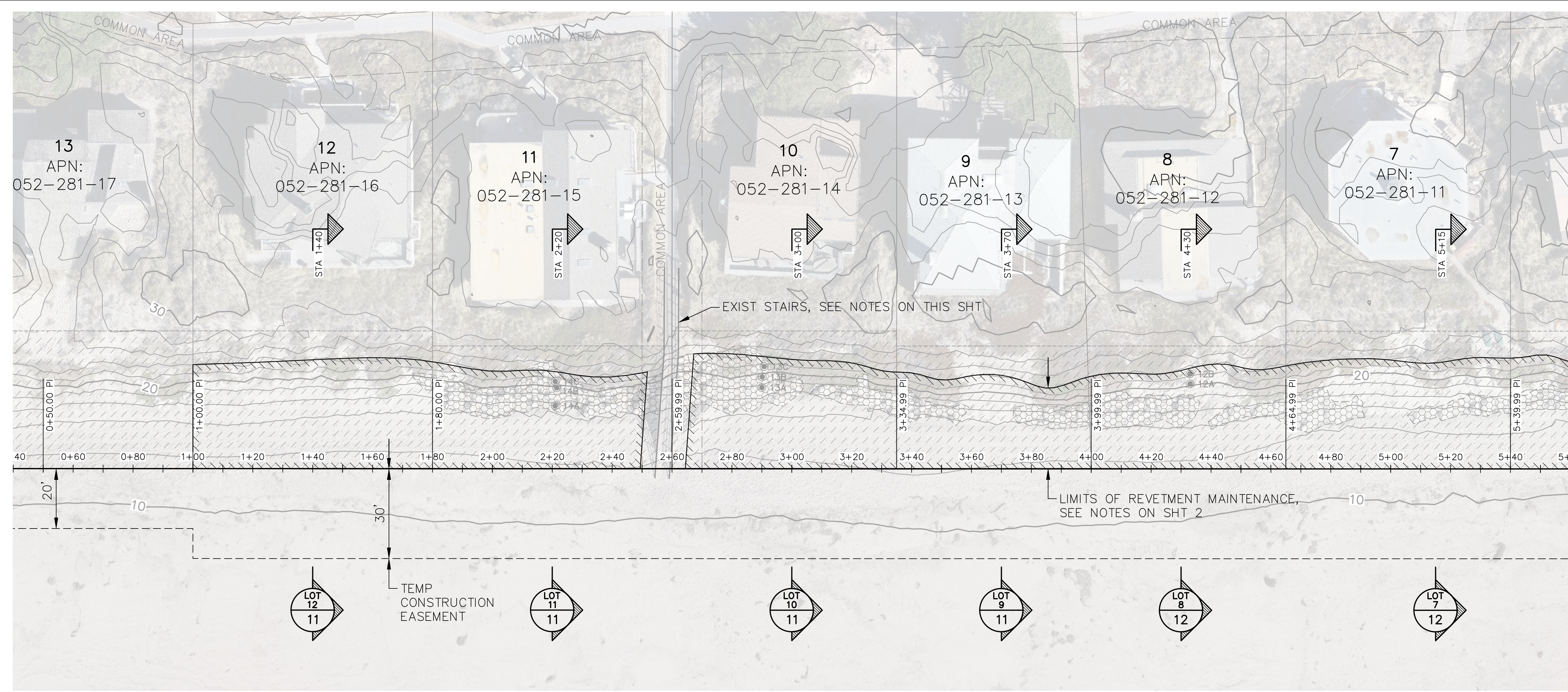
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10 MARCH 2023**



 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771			
		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SITE PLAN (1 OF 5)			
DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780	DATE MARCH 2023	SHEET NO. OF 5 OF 16

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MATCH LINE STA 0+40, SEE SHEET 5



MATCH LINE STA 5+60, SEE SHEET 7

NOTES

1. THE REVETMENT MAINTENANCE SHALL EXTEND BELOW THE EXISTING STAIRS.
2. THE CONTRACTOR MAY ELECT TO REMOVE PORTIONS OF STAIRS BEFORE CONSTRUCTION. STAIRS REMOVED BEFORE CONSTRUCTION OR STAIRS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND WITH NEW MATERIALS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR THE PORTIONS OF THE STAIRS THAT ARE REPAIRED OR REPLACED. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

NEW STAIR MATERIALS

1. STRUCTURAL TIMBER AND LUMBER SHALL BE BROWN PRESSURE-TREATED DOUGLAS FIR NO. 1 OR BETTER.
2. BOLTS SHALL BE ASTM A307 GRADE A. NUTS SHALL BE AMERICAN STANDARD HEAVY, SEMI-FINISHED HEXAGON TAPPED, UNC THREAD SERIES, CLASS 2B. WASHERS SHALL BE OVERSIZED. ALL PARTS SHALL BE HOT-DIP GALVANIZED PER ASTM A153 CLASS C.
3. BOLT HOLES SHALL BE AT LEAST A MINIMUM OF 1/32" AND NO MORE THAN A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER.
4. ALL NAILS SHALL BE 16d HOT-DIP GALVANIZED. PNEUMATIC NAILING SHALL NOT BE PERMITTED.
5. ALL HARDWARE SHALL BE GALVANIZED AND SHALL MEET ASTM A653 BY THE HOT-DIP PROCESS, G-185 COATING.

EMERGENCY-PLACED ROCK

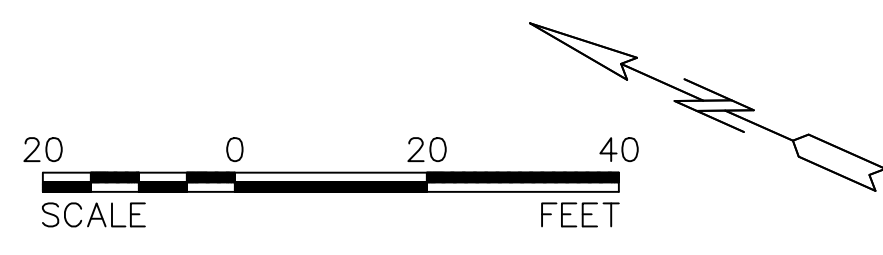
- THE KNOWN LOCATIONS OF THE BURIED EMERGENCY-PLACED ROCK ARE IN THE FOLLOWINGS LOCATIONS:
1. ON STATE PARKS PROPERTY IN FRONT OF THE REVETMENT TOE ADJACENT TO LOTS 98, 99, 100, AND 103. TOTAL OF APPROX 440 TONS.
 2. ON PAJARO DUNES PROPERTY OVERLYING THE ROCK REVETMENT TOE ON LOTS 15, 54, 55, 103, AND 104. TOTAL OF APPROX 235 TONS.



LEGEND

	REVETMENT MAINTENANCE
	EXISTING RSP
	EXISTING RSP, BURRIED

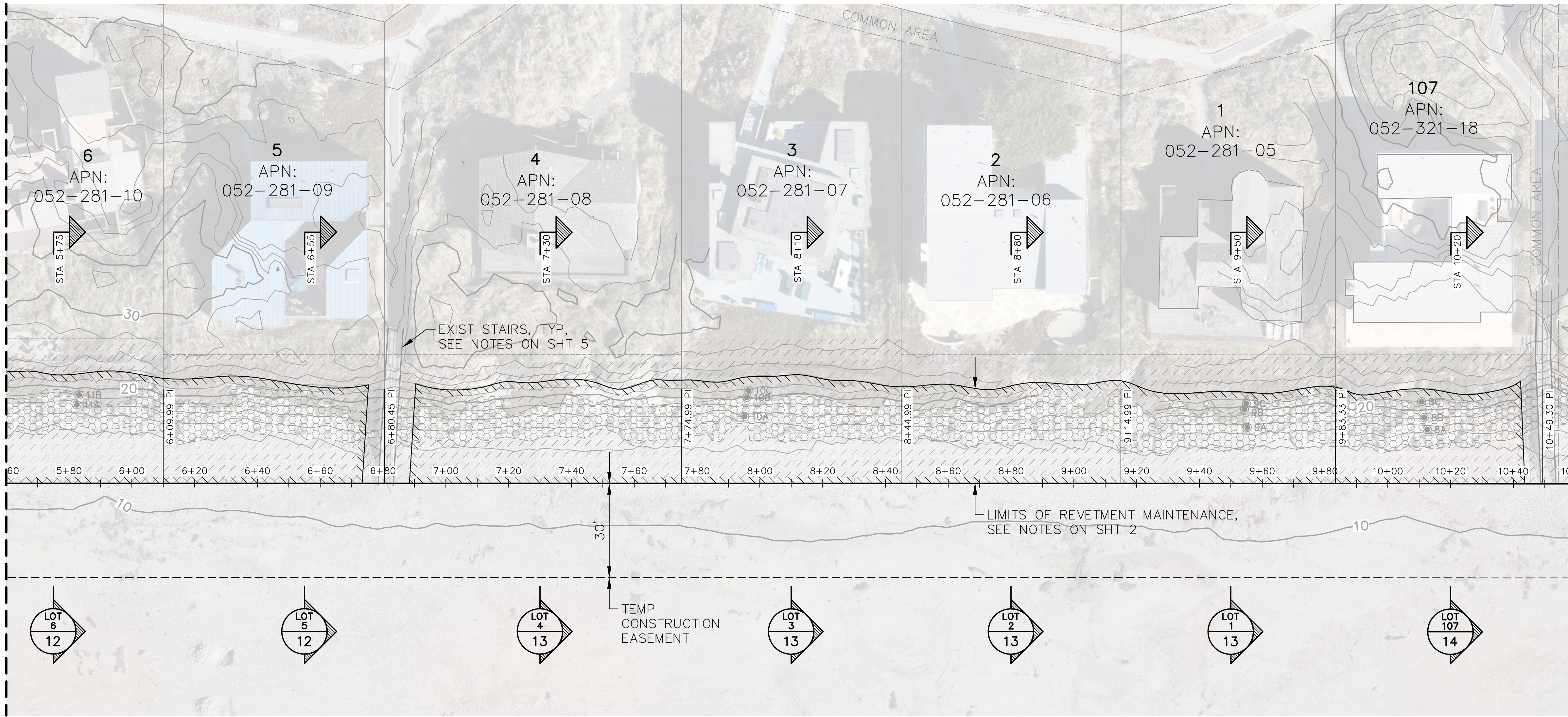
**100% SUBMITTAL
NOT FOR CONSTRUCTION
10 MARCH 2023**



 CAL ENGINEERING & GEOLOGY	785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SITE PLAN (2 OF 5)		
	DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780	DATE MARCH 2023




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MATCH LINE STA 5+60, SEE SHEET 6

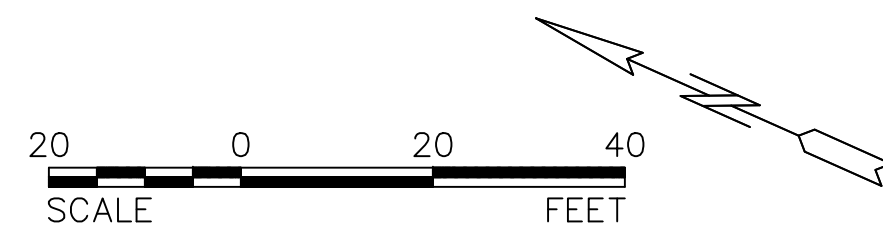



MATCH LINE STA 10+60, SEE SHEET 8

LEGEND

-  REVETMENT MAINTENANCE
-  EXISTING RSP
-  EXISTING RSP, BURRIED

**100% SUBMITTAL
NOT FOR CONSTRUCTION
10 MARCH 2023**

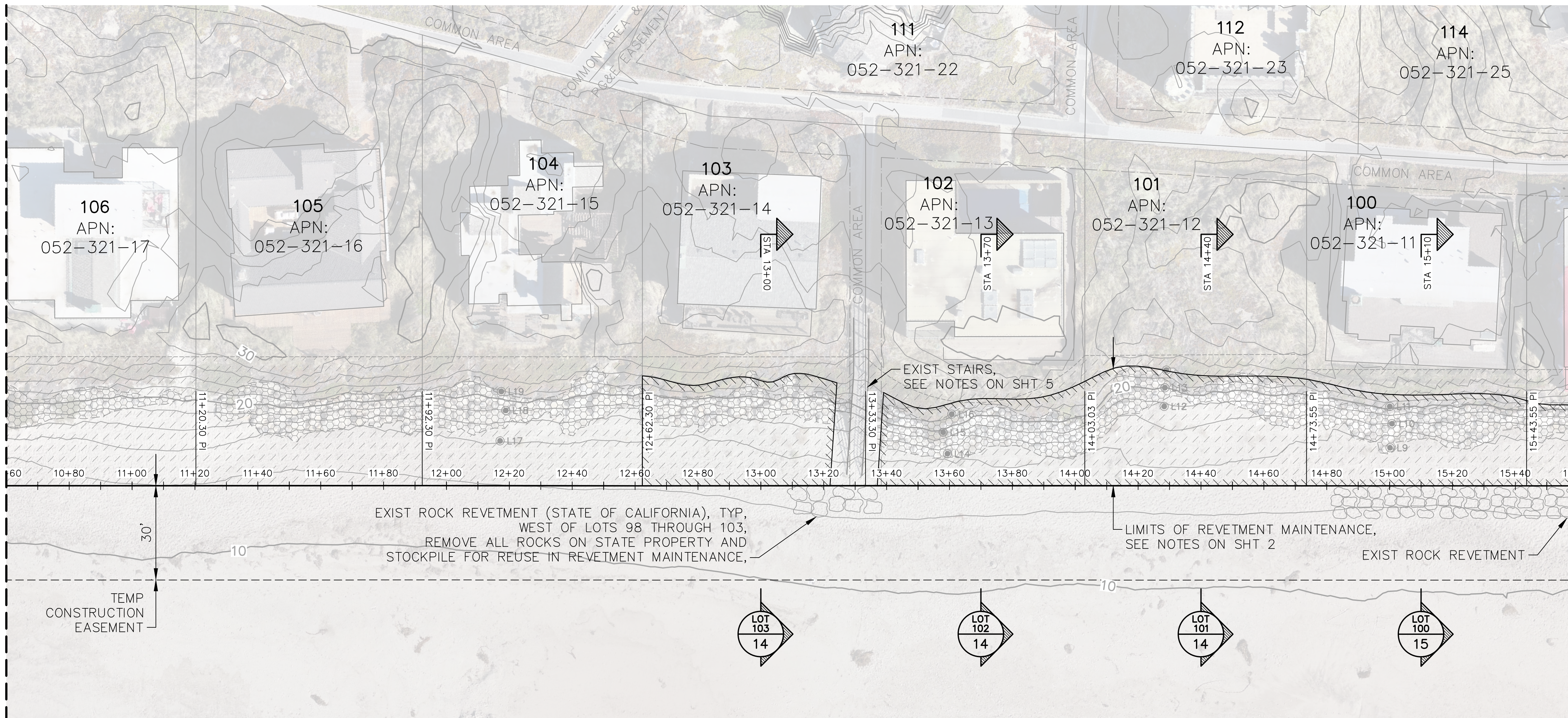


 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SITE PLAN (3 OF 5)	
		DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780



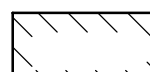


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MATCH LINE STA 10+60, SEE SHEET 7

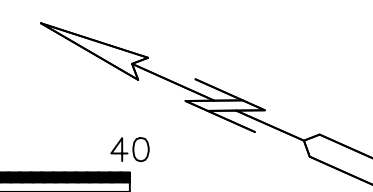



MATCH LINE STA 15+60, SEE SHEET 9

LEGEND

-  REVETMENT MAINTENANCE
-  EXISTING RSP
-  EXISTING RSP, BURRIED

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 NOT FOR CONSTRUCTION
 10 MARCH 2023**

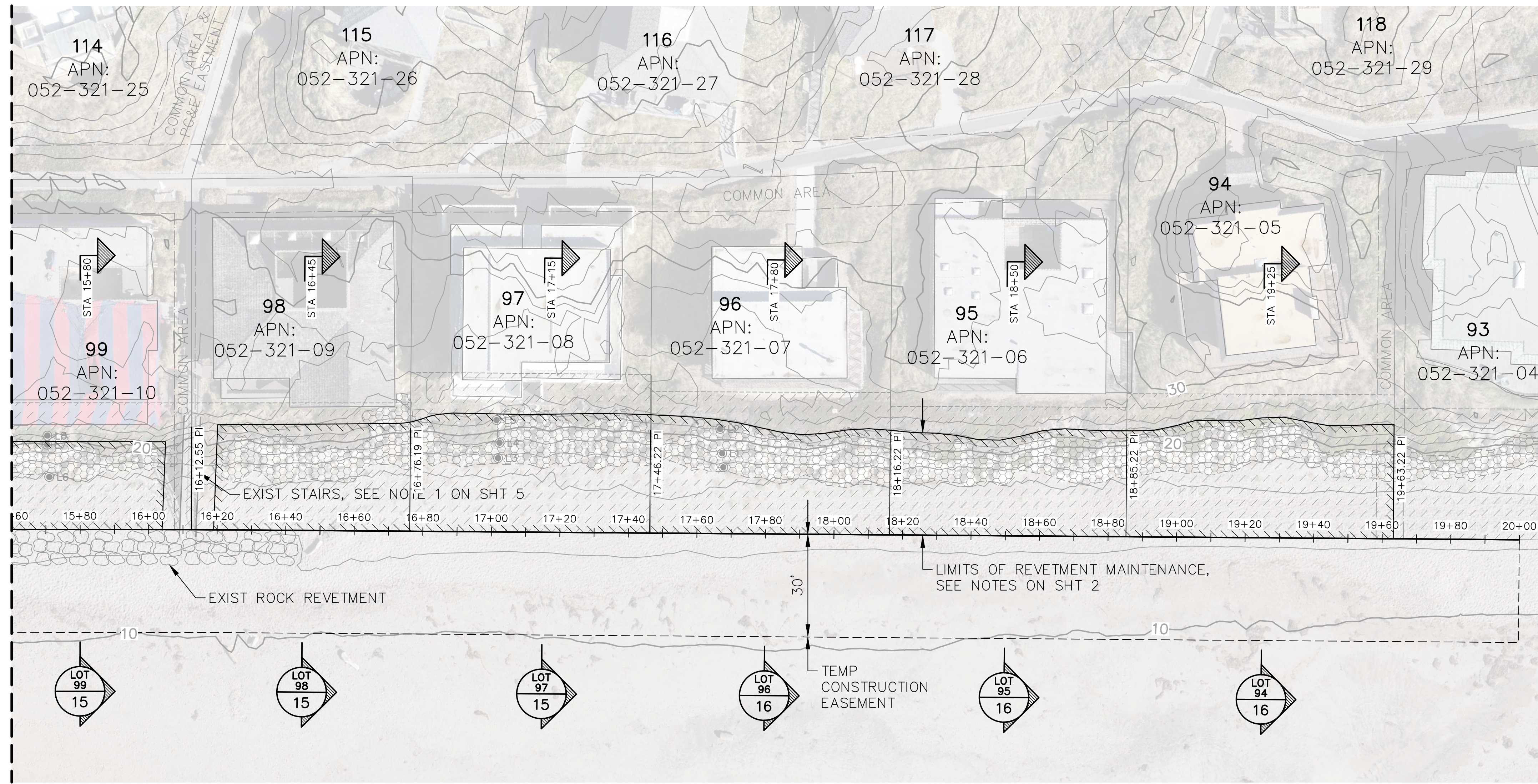


 CAL ENGINEERING & GEOLOGY		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SITE PLAN (4 OF 5)	
		DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780



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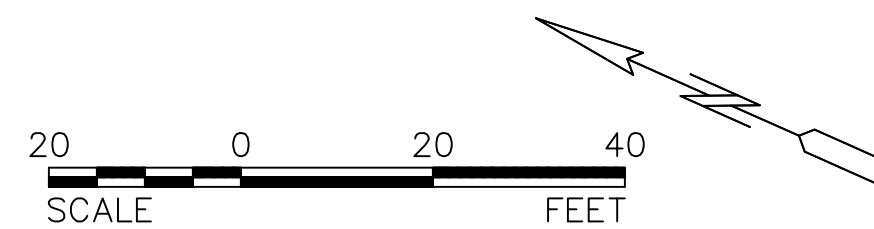
MATCH LINE STA 15+60, SEE SHEET 8



LEGEND

	REVETMENT MAINTENANCE
	EXISTING RSP
	EXISTING RSP, BURRIED

**100% SUBMITTAL
NOT FOR CONSTRUCTION
10 MARCH 2023**



CE&G
CAL ENGINEERING & GEOLOGY

785 Ygnacio Valley Road
Walnut Creek, CA 94596
Phone: (925) 935-9771

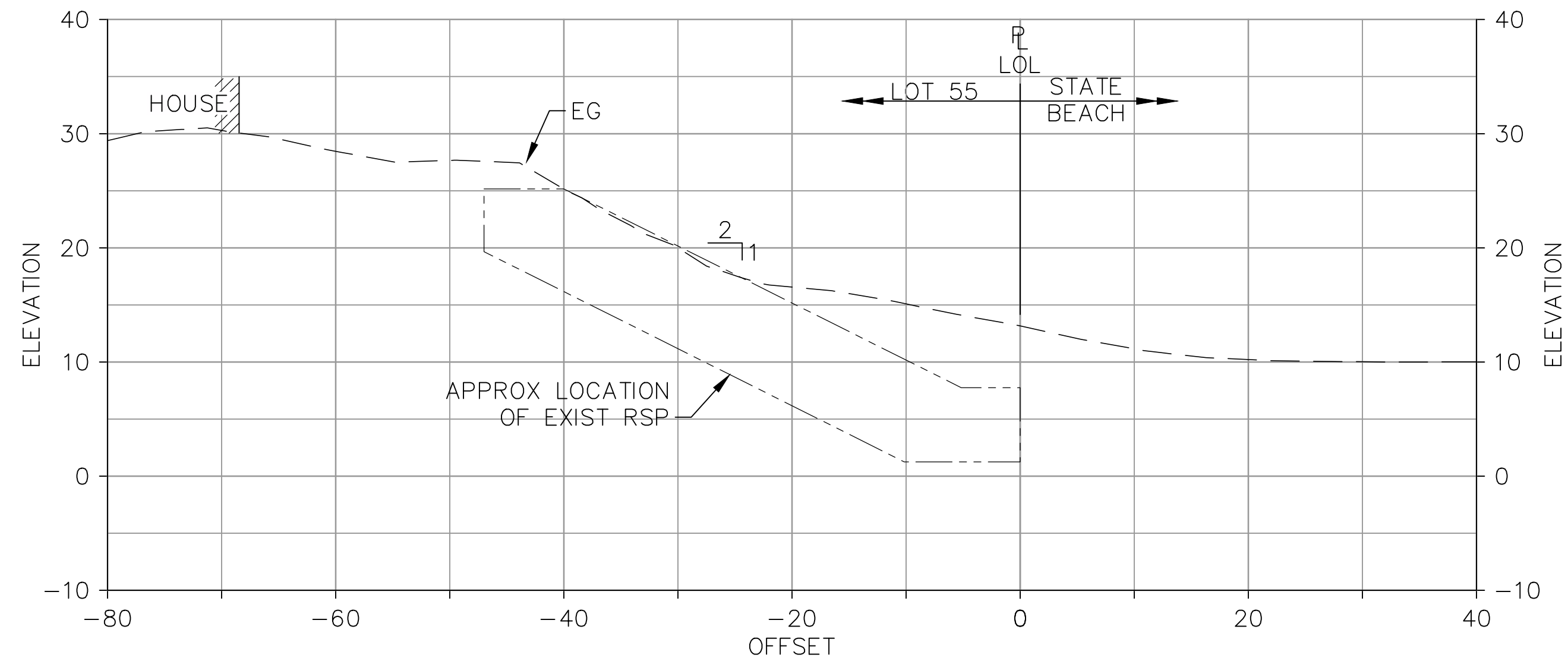
DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO
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PAJARO DUNES GHAD

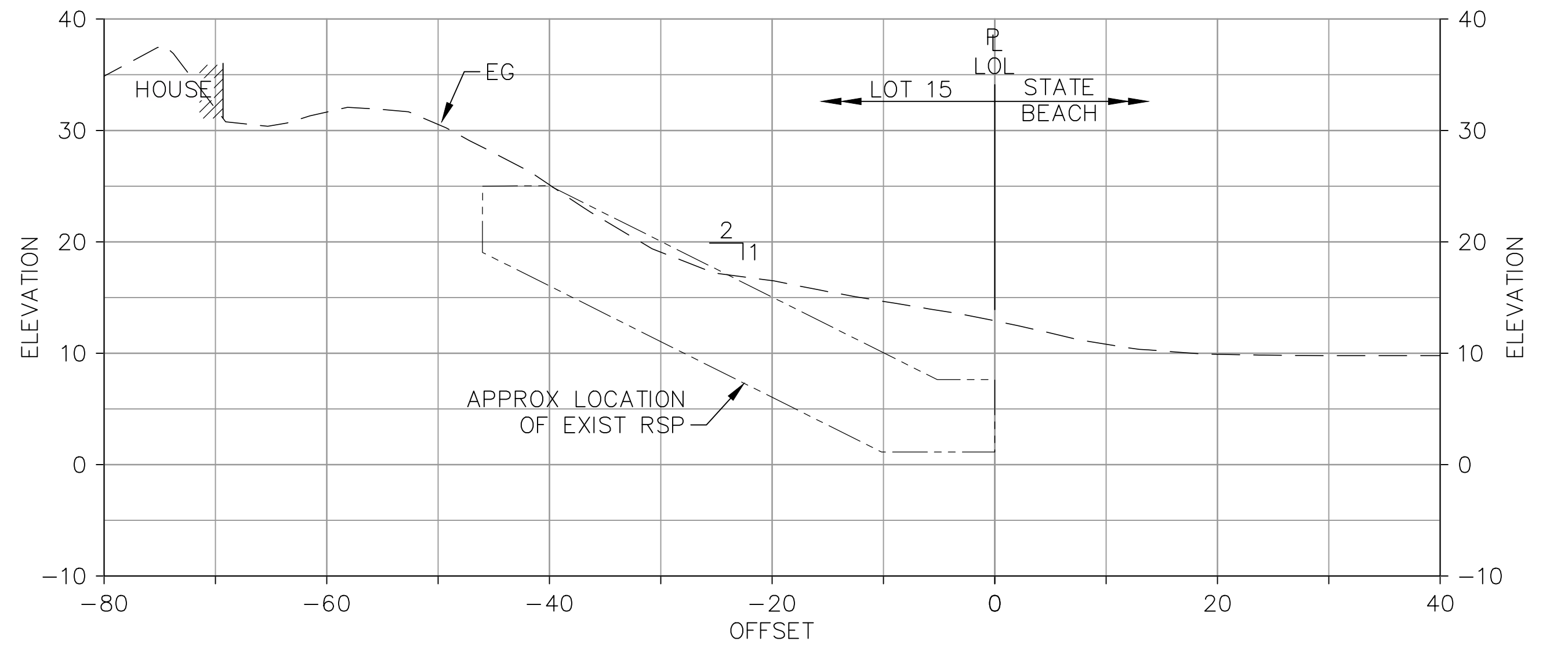
ROCK REVETMENT MAINTENANCE
PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA
SITE PLAN (5 OF 5)

PROJECT NO. 190780	DATE MARCH 2023	SHEET NO. OF 9 OF 16
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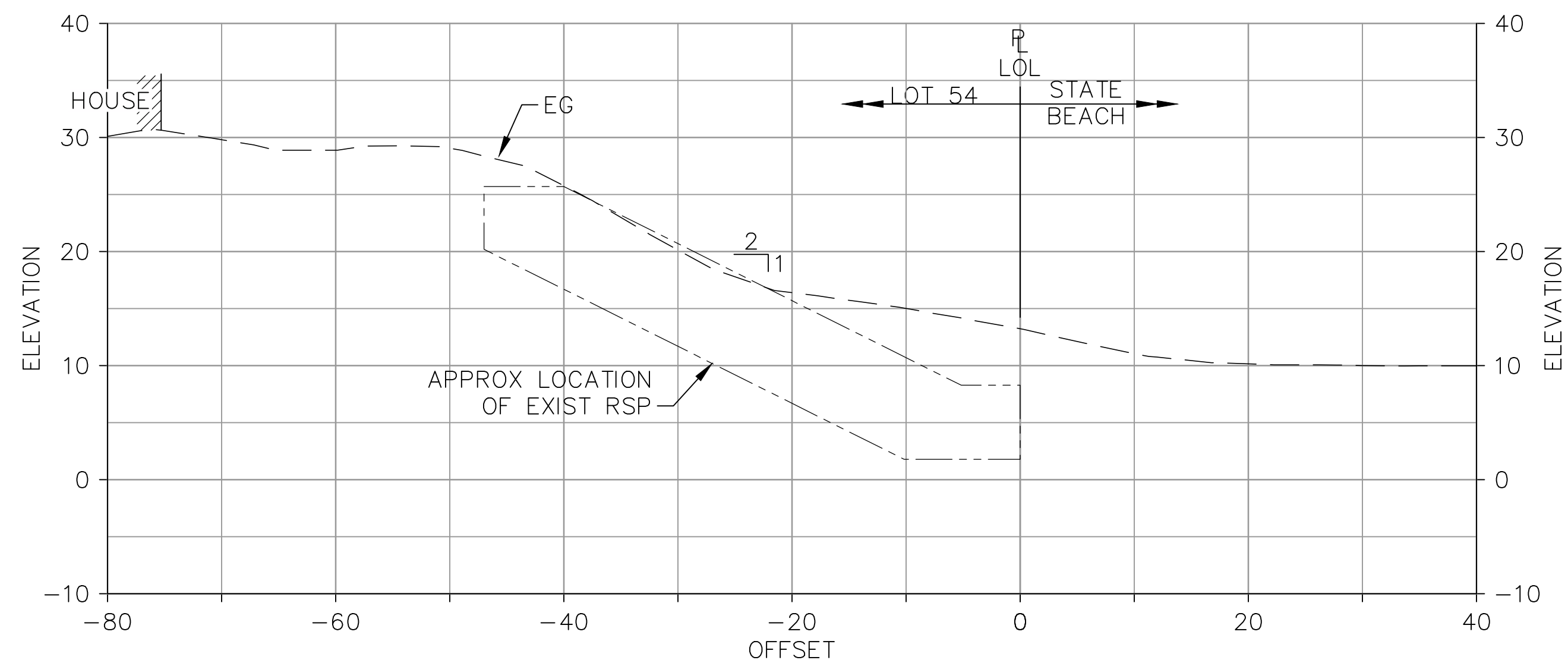




SECTION LOT 55
STA -2+65 5



SECTION LOT 15
STA -1+50 5



SECTION LOT 54
STA -2+15 5

NOTES

1. PROPOSED REVETMENT DESIGN SLOPE MAY BE LOWERED UP TO 24" (TYP.) BELOW THE ORIGINAL REVETMENT DESIGN SLOPE (TOWARDS LOTS) FOR SELECTED SECTIONS. CONTRACTOR MAY SOURCE THE MATERIAL REMAINING IN FRONT OF THE PROPOSED REVETMENT SLOPE, IF NEEDED. SEE SOURCING PRIORITY LIST BELOW.
2. THERE WILL BE VARIABILITY IN CROSS SECTIONS ACROSS EACH LOT

PLACEMENT PRIORITY

- 1ST: PROPERTIES WITH SLOPES THAT ARE 1.5:1 OR STEEPER
- 2ND: PROPERTIES WITH SLOPES THAT ARE 1.7:1 OR STEEPER
- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

SOURCING PRIORITY

- 1ST: MATERIAL FROM STATE PROPERTY PLACED DURING EMERGENCY REPAIR (2004).
- 2ND: MATERIAL FROM PROPERTIES WITH 2.0:1 SLOPES
- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
55	2.0:1	0	0
54	2.0:1	0	0
15	2.0:1	0	0

LEGEND

- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING

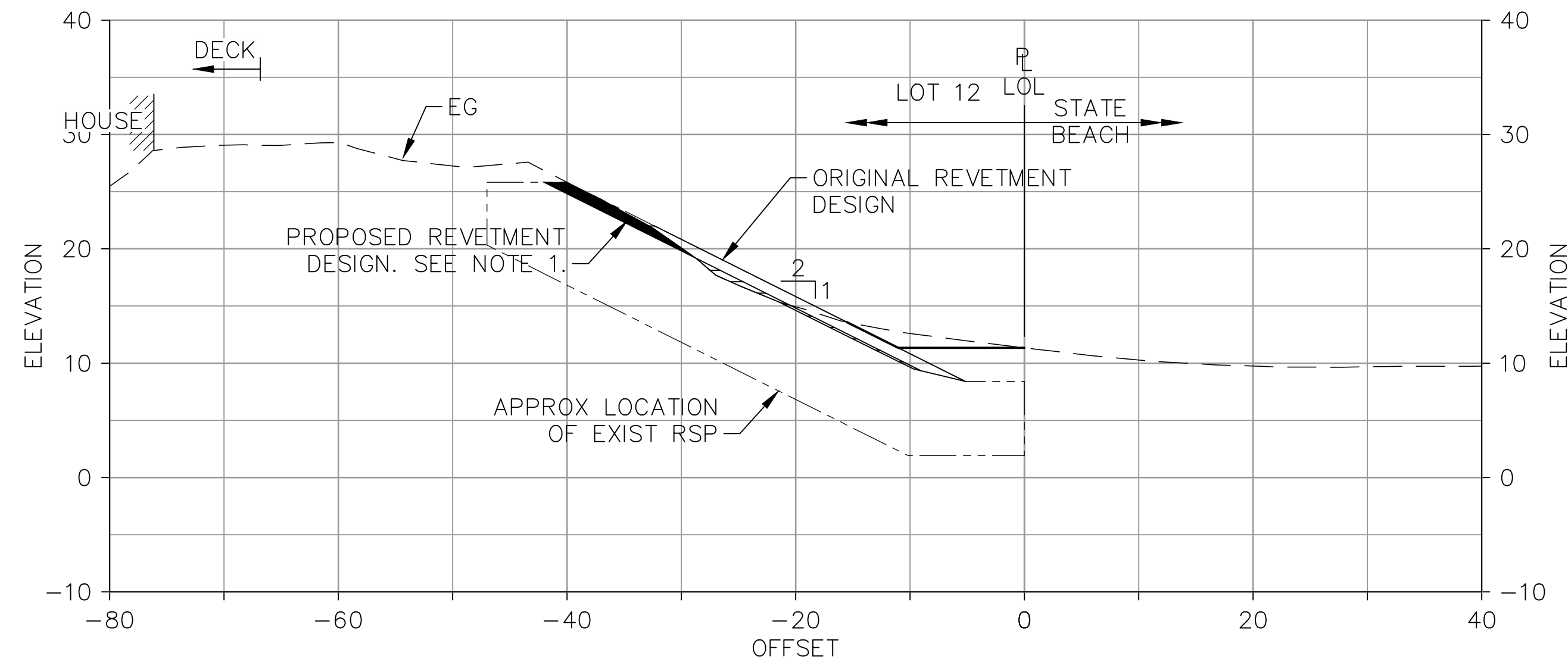


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MAY 2023**

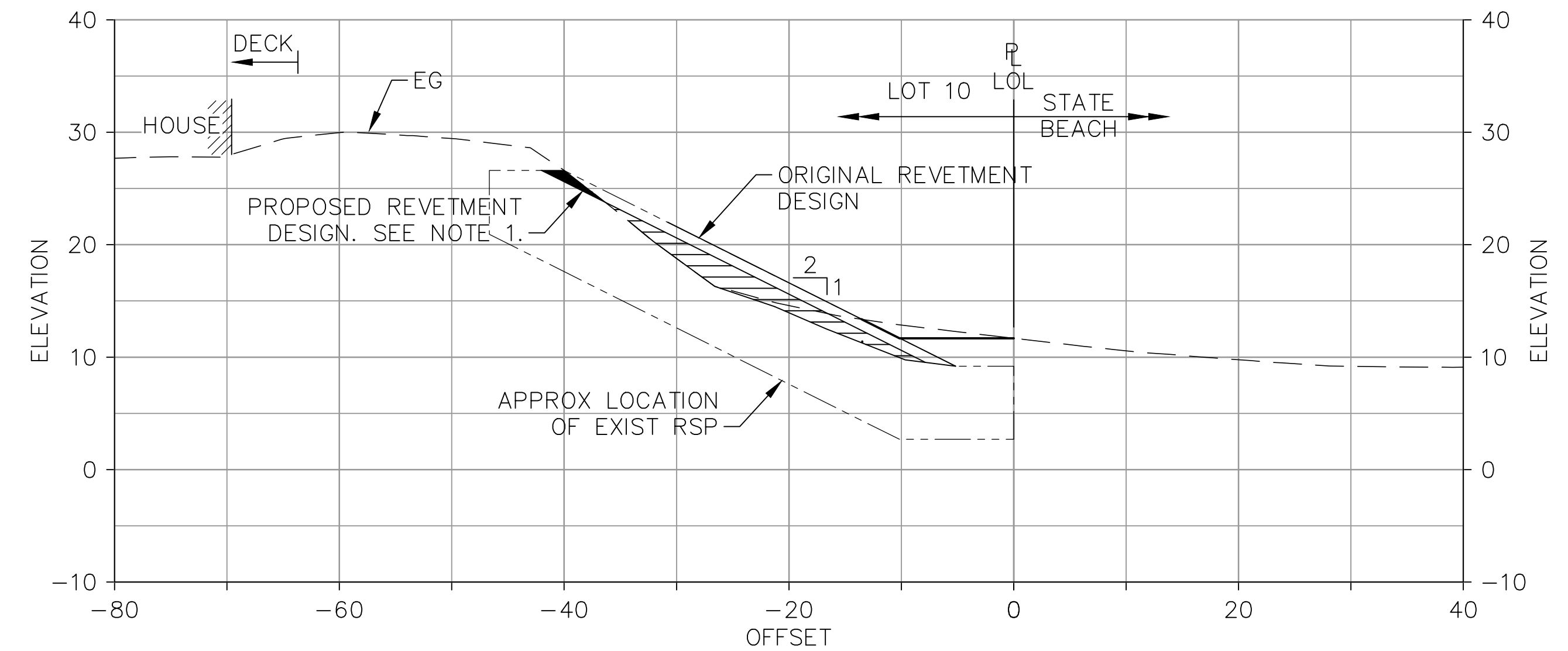


	785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD	
	ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (1 OF 7)			
DESIGNED	DRAWN	CHECKED	PROJECT NO.	DATE
C. HOCKETT	K. DROZYNSKA	D. PELUSO	190780	MAY 2023
			SHEET NO. OF	10 OF 16

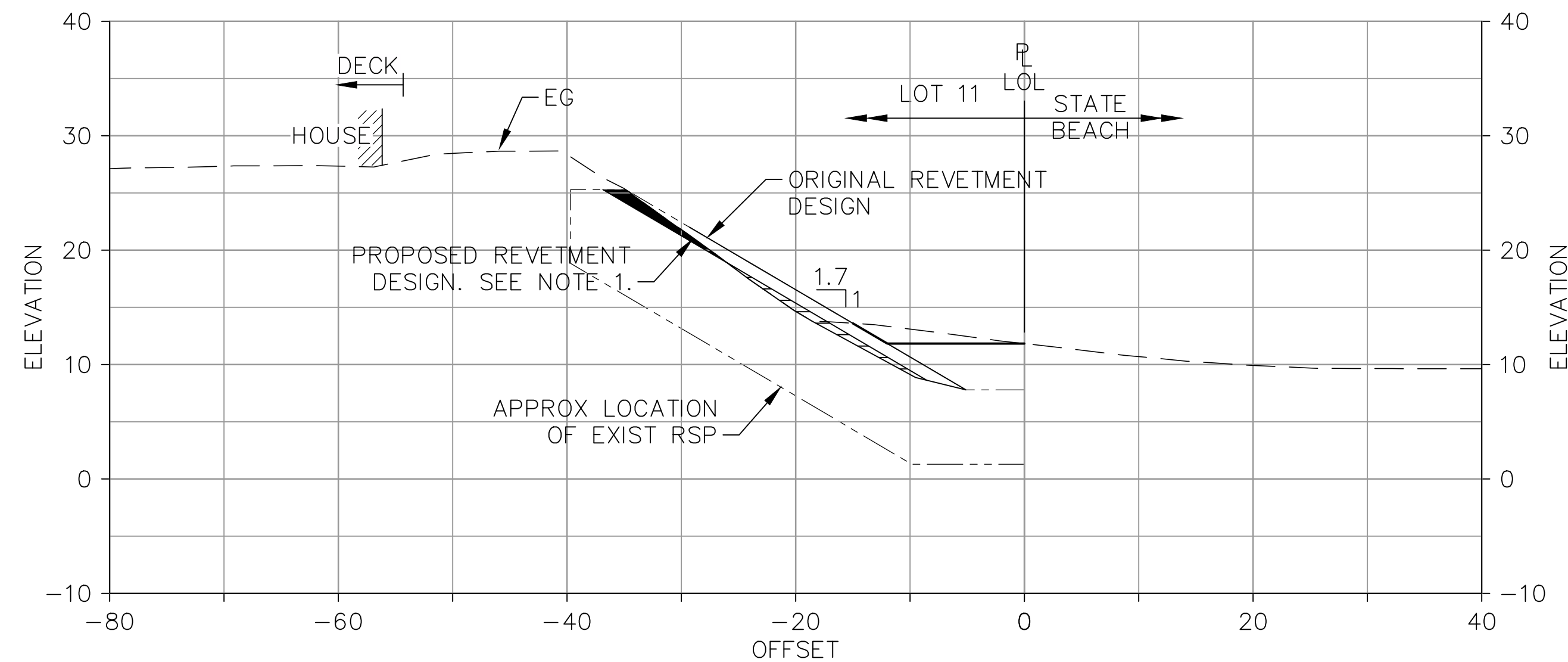
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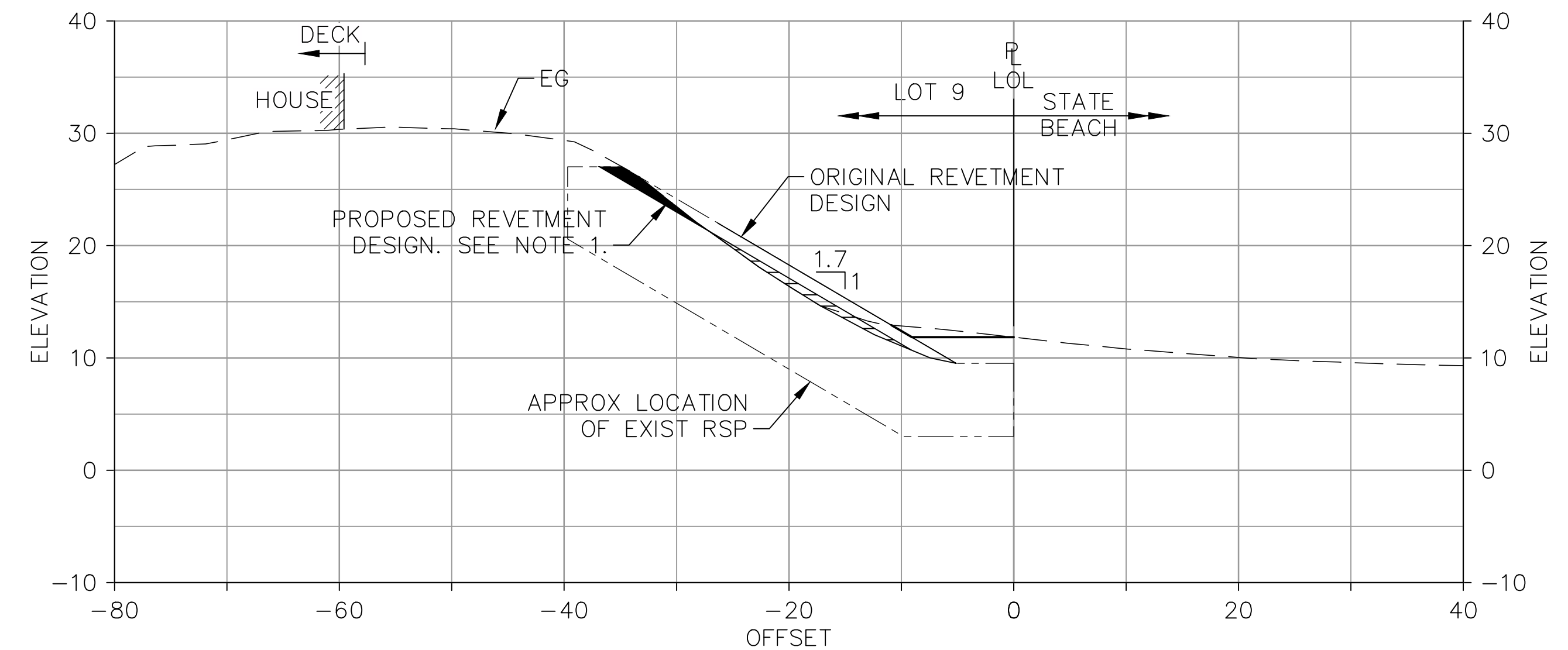
SECTION LOT 12
STA 1+40 6



SECTION LOT 10
STA 3+00 6



SECTION LOT 11
STA 2+20 6



SECTION LOT 9
STA 3+70 6

NOTES

1. PROPOSED REVETMENT DESIGN SLOPE MAY BE LOWERED UP TO 24" (TYP.) BELOW THE ORIGINAL REVETMENT DESIGN SLOPE (TOWARDS LOTS) FOR SELECTED SECTIONS. CONTRACTOR MAY SOURCE THE MATERIAL REMAINING IN FRONT OF THE PROPOSED REVETMENT SLOPE, IF NEEDED. SEE SOURCING PRIORITY LIST BELOW.
2. THERE WILL BE VARIABILITY IN CROSS SECTIONS ACROSS EACH LOT

PLACEMENT PRIORITY

- 1ST: PROPERTIES WITH SLOPES THAT ARE 1.5:1 OR STEEPER
- 2ND: PROPERTIES WITH SLOPES THAT ARE 1.7:1 OR STEEPER
- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

SOURCING PRIORITY

- 1ST: MATERIAL FROM STATE PROPERTY PLACED DURING EMERGENCY REPAIR (2004).
- 2ND: MATERIAL FROM PROPERTIES WITH 2.0:1 SLOPES
- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
12	2.0:1	22	37
11	1.7:1	34	26
10	2.0:1	152	11
9	1.7:1	31	21

LEGEND

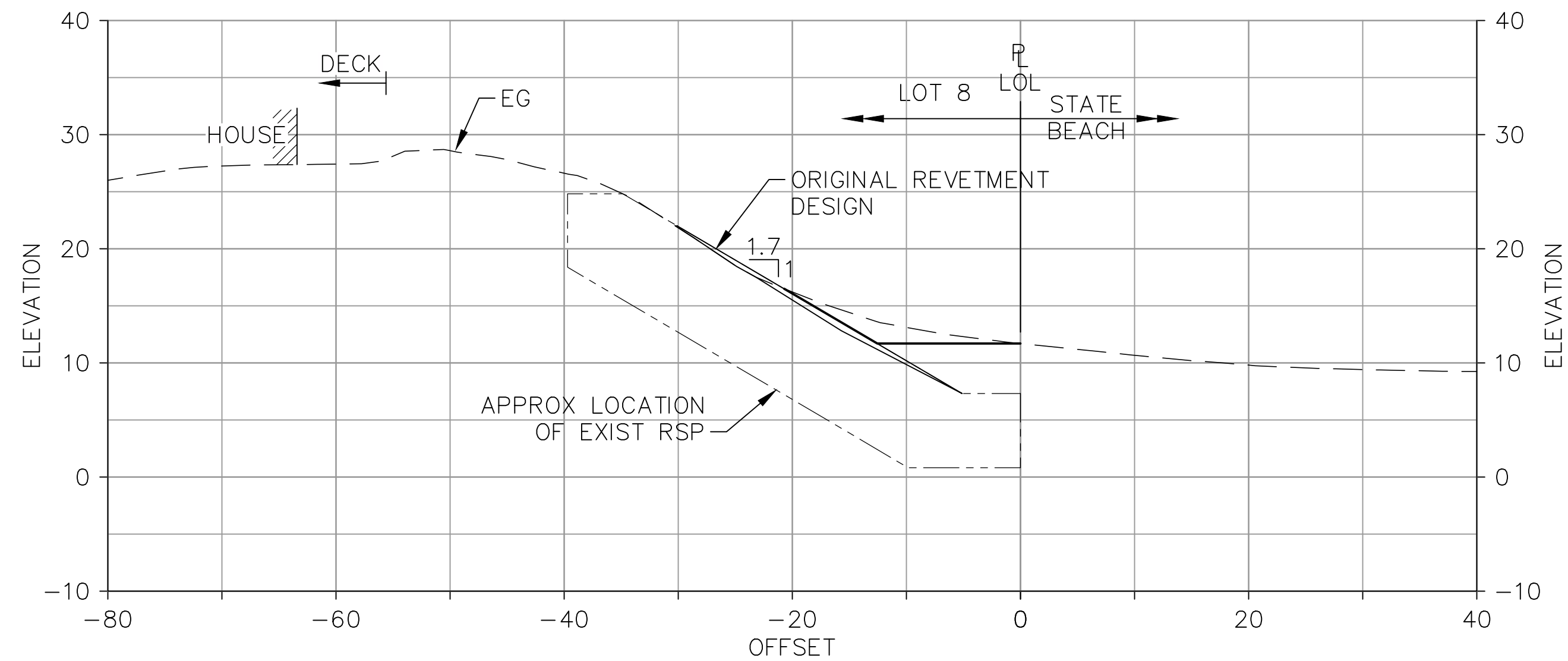
- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING



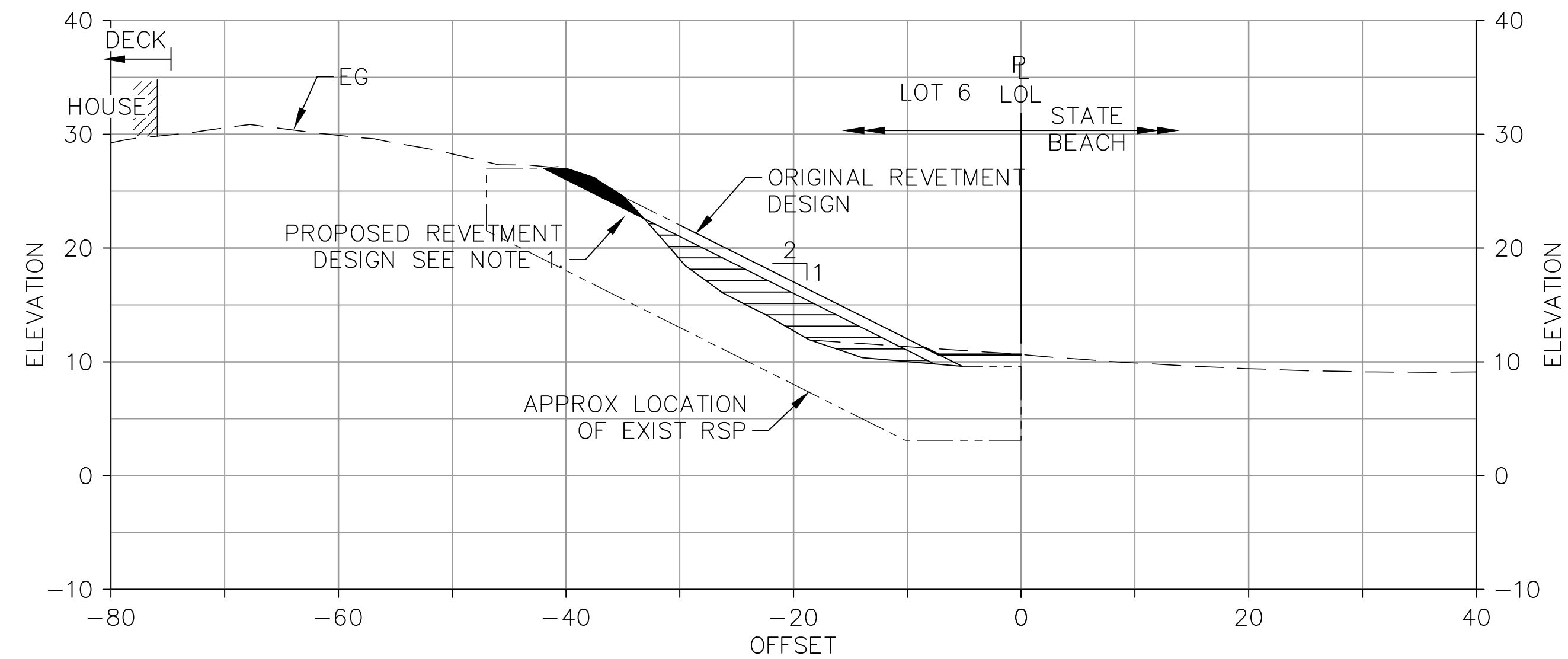
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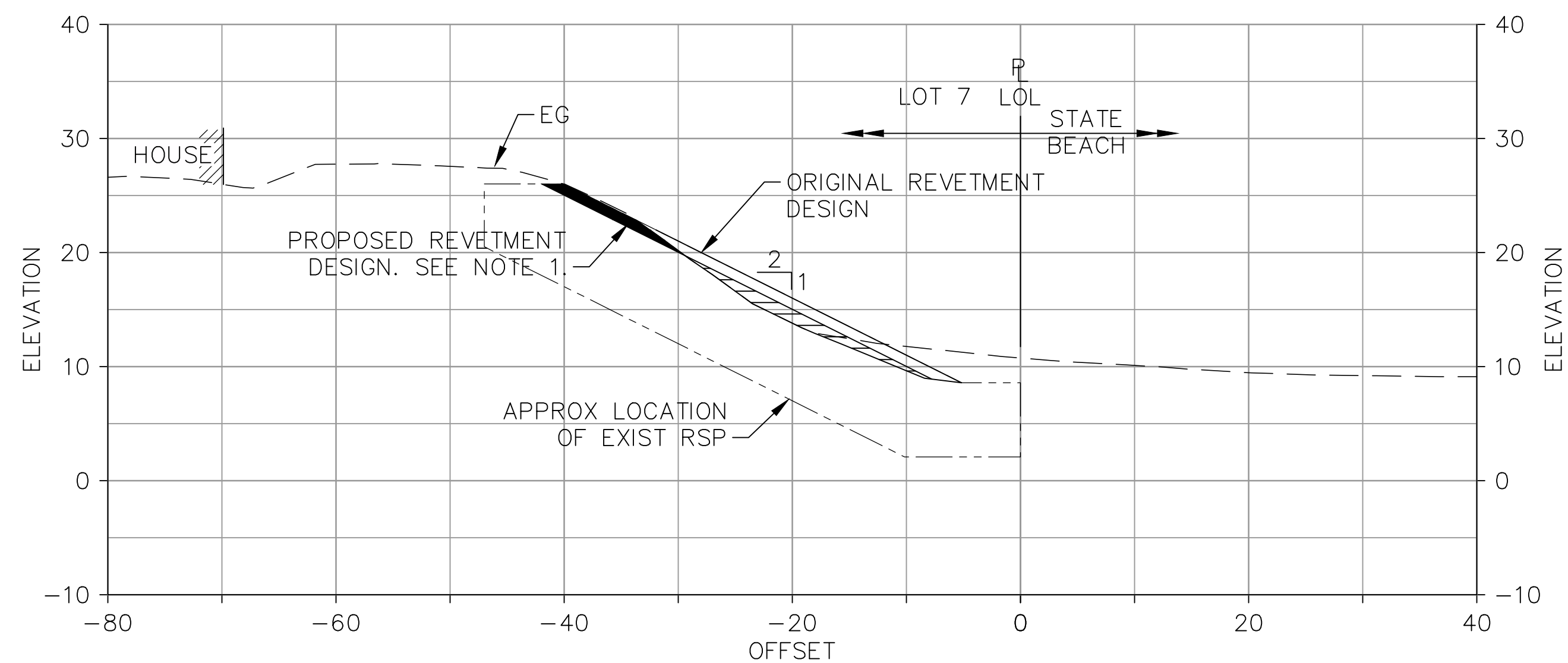
 CAL ENGINEERING & GEOLOGY	785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (2 OF 7)	
	DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780
			SHEET NO. 11	OF 16



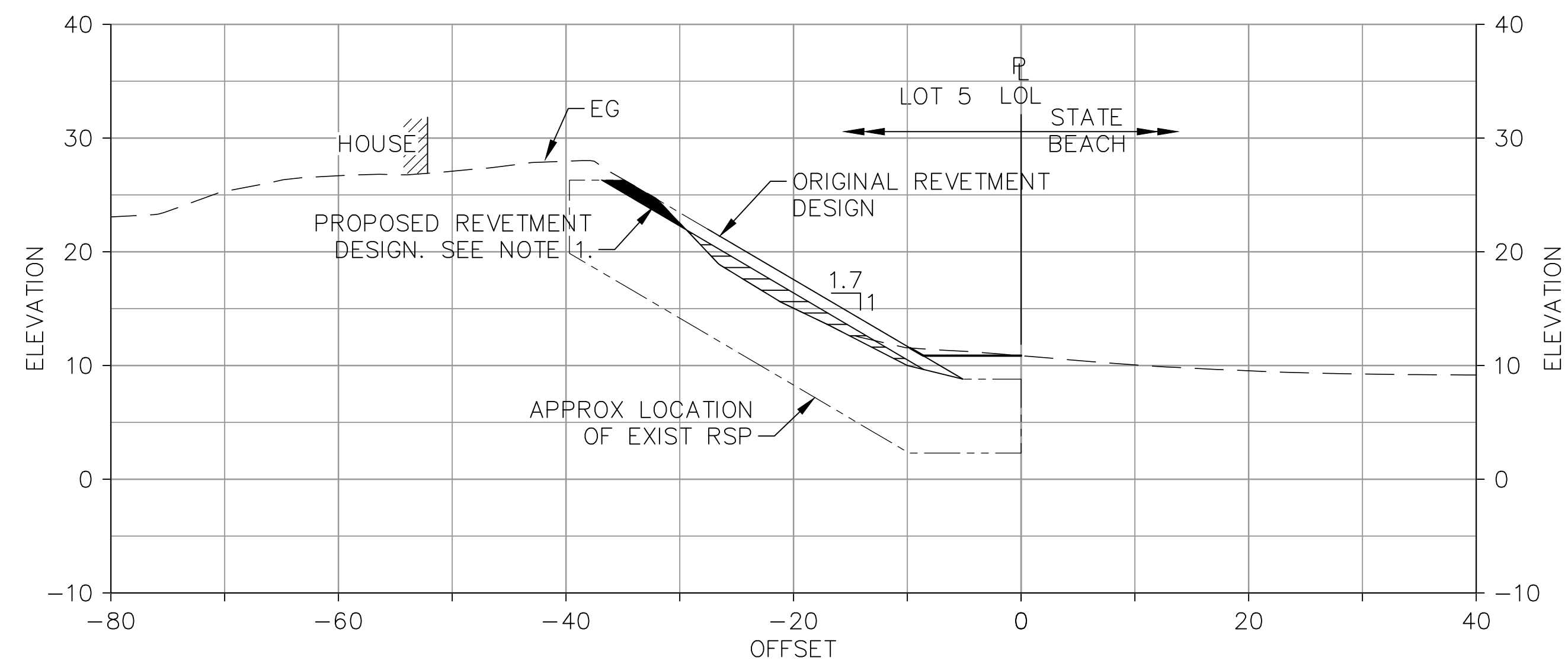
SECTION **LOT 8**
STA 4+30 **6**



SECTION **LOT 6**
STA 5+75 **7**



SECTION **LOT 7**
STA 5+15 **6**



SECTION **LOT 5**
STA 6+55 **7**

NOTES

1. PROPOSED REVETMENT DESIGN SLOPE MAY BE LOWERED UP TO 24" (TYP.) BELOW THE ORIGINAL REVETMENT DESIGN SLOPE (TOWARDS LOTS) FOR SELECTED SECTIONS. CONTRACTOR MAY SOURCE THE MATERIAL REMAINING IN FRONT OF THE PROPOSED REVETMENT SLOPE, IF NEEDED. SEE SOURCING PRIORITY LIST BELOW.
2. THERE WILL BE VARIABILITY IN CROSS SECTIONS ACROSS EACH LOT

PLACEMENT PRIORITY

- 1ST: PROPERTIES WITH SLOPES THAT ARE 1.5:1 OR STEEPER
- 2ND: PROPERTIES WITH SLOPES THAT ARE 1.7:1 OR STEEPER
- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

SOURCING PRIORITY

- 1ST: MATERIAL FROM STATE PROPERTY PLACED DURING EMERGENCY REPAIR (2004).
- 2ND: MATERIAL FROM PROPERTIES WITH 2.0:1 SLOPES
- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
8	1.7:1	0	0
7	2.0:1	63	35
6	2.0:1	208	29
5	1.7:1	72	21

LEGEND

- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING

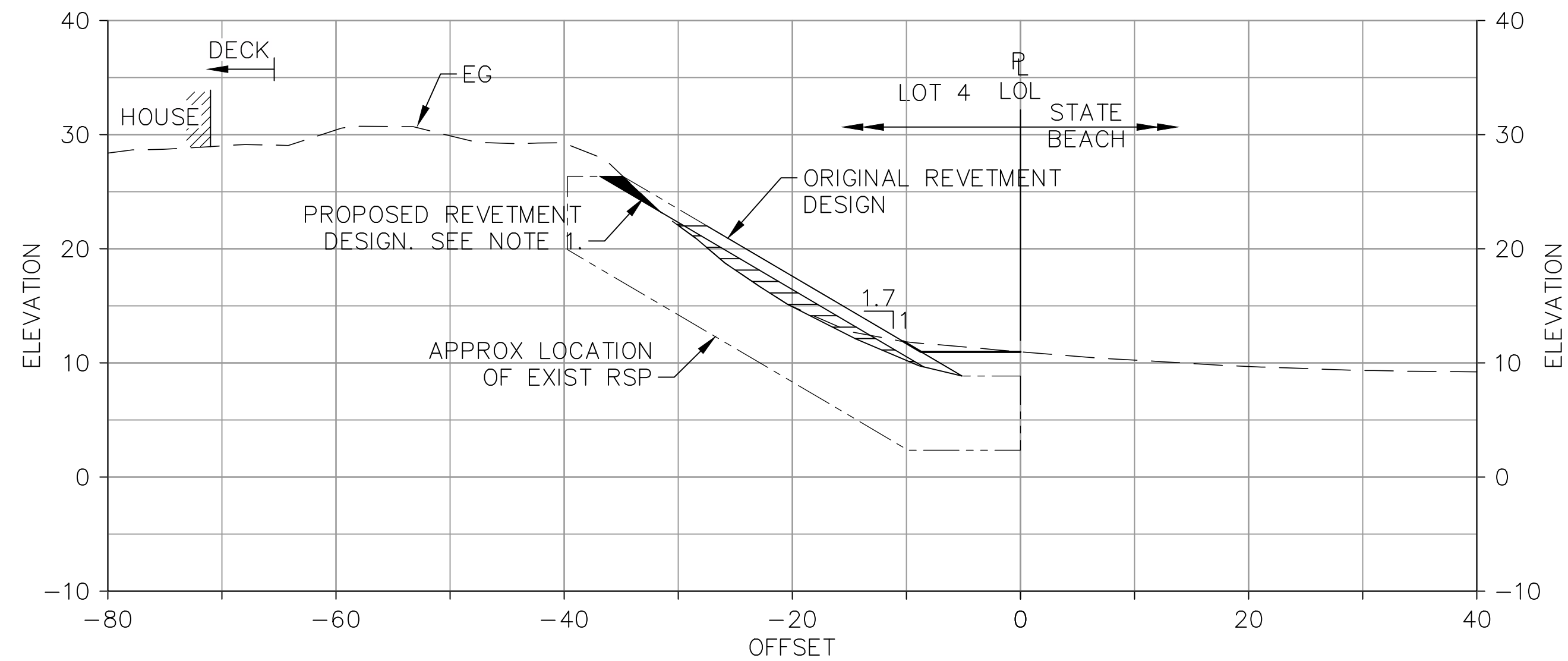


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MAY 2023**

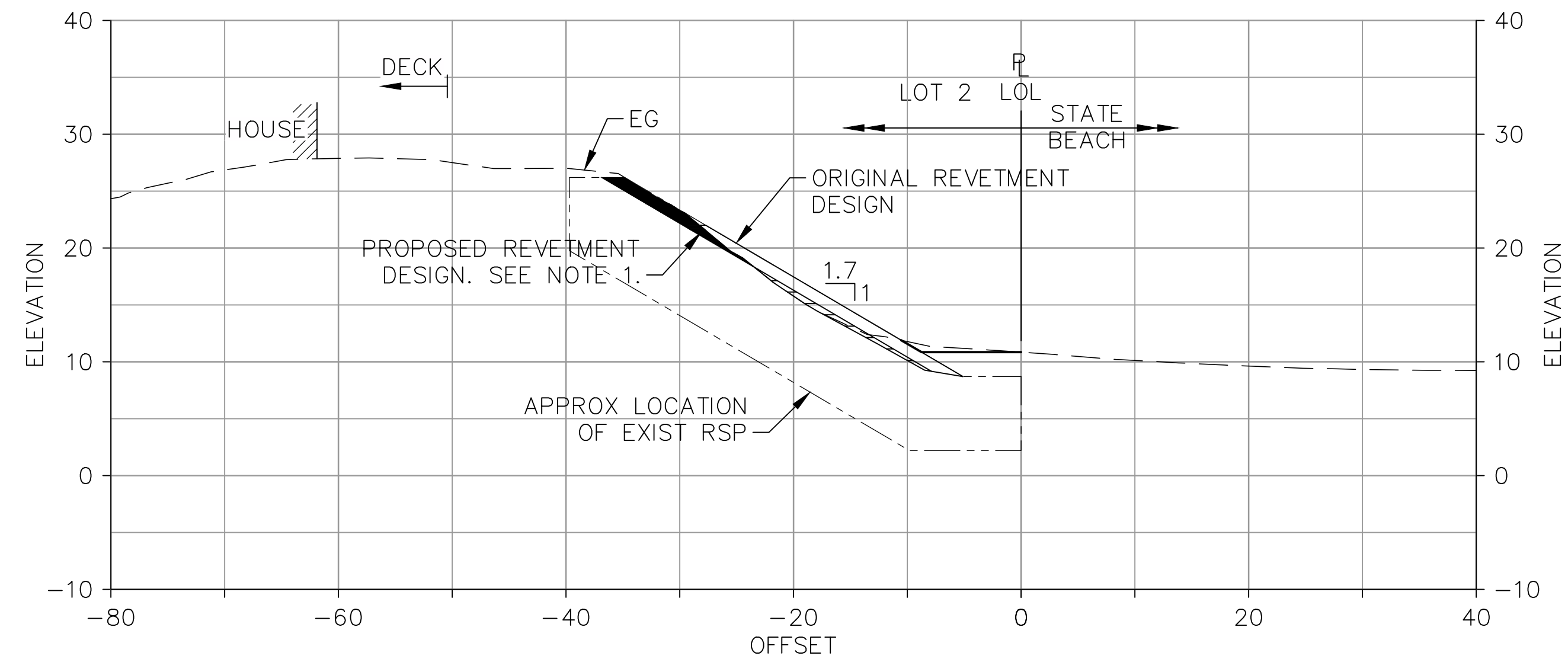


 CAL ENGINEERING & GEOLOGY 785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771	PAJARO DUNES GHAD		
	ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (3 OF 7)		
DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780
DATE MAY 2023		SHEET NO. OF 12 OF 16	

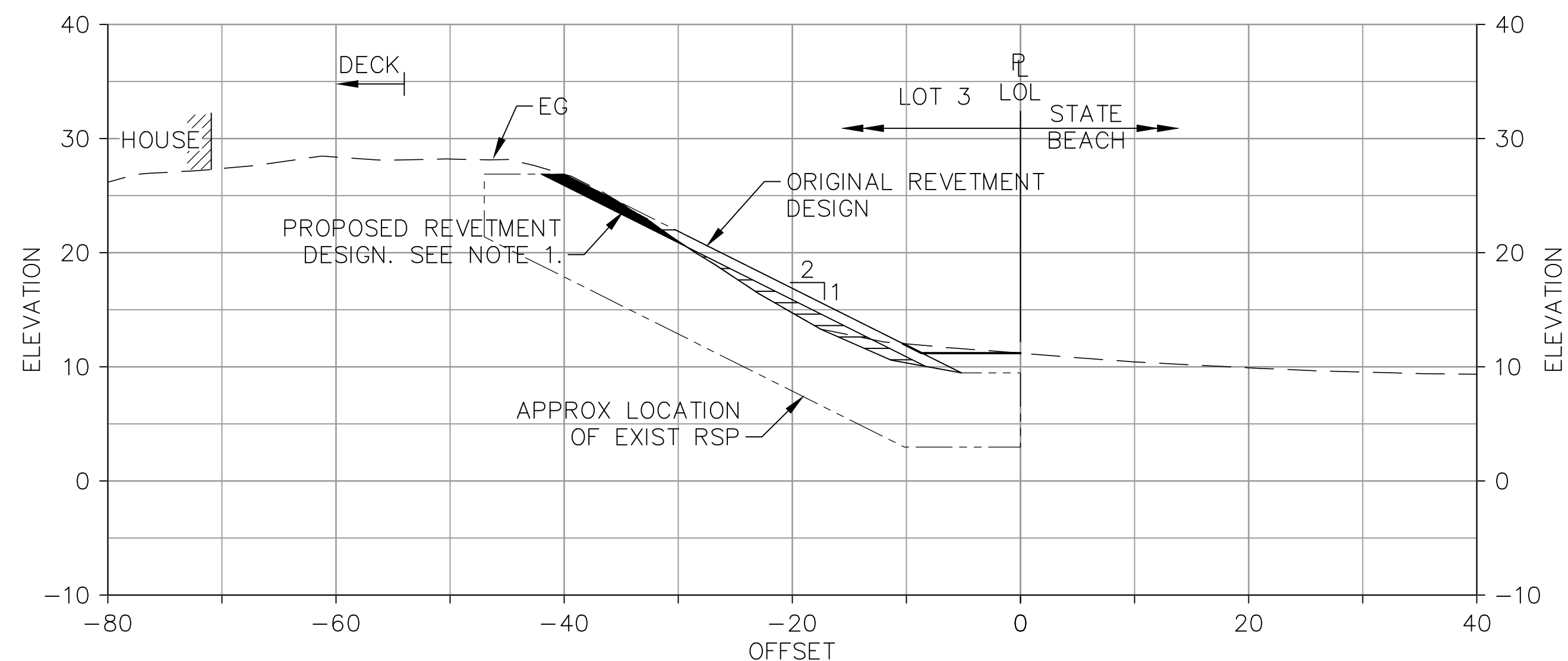
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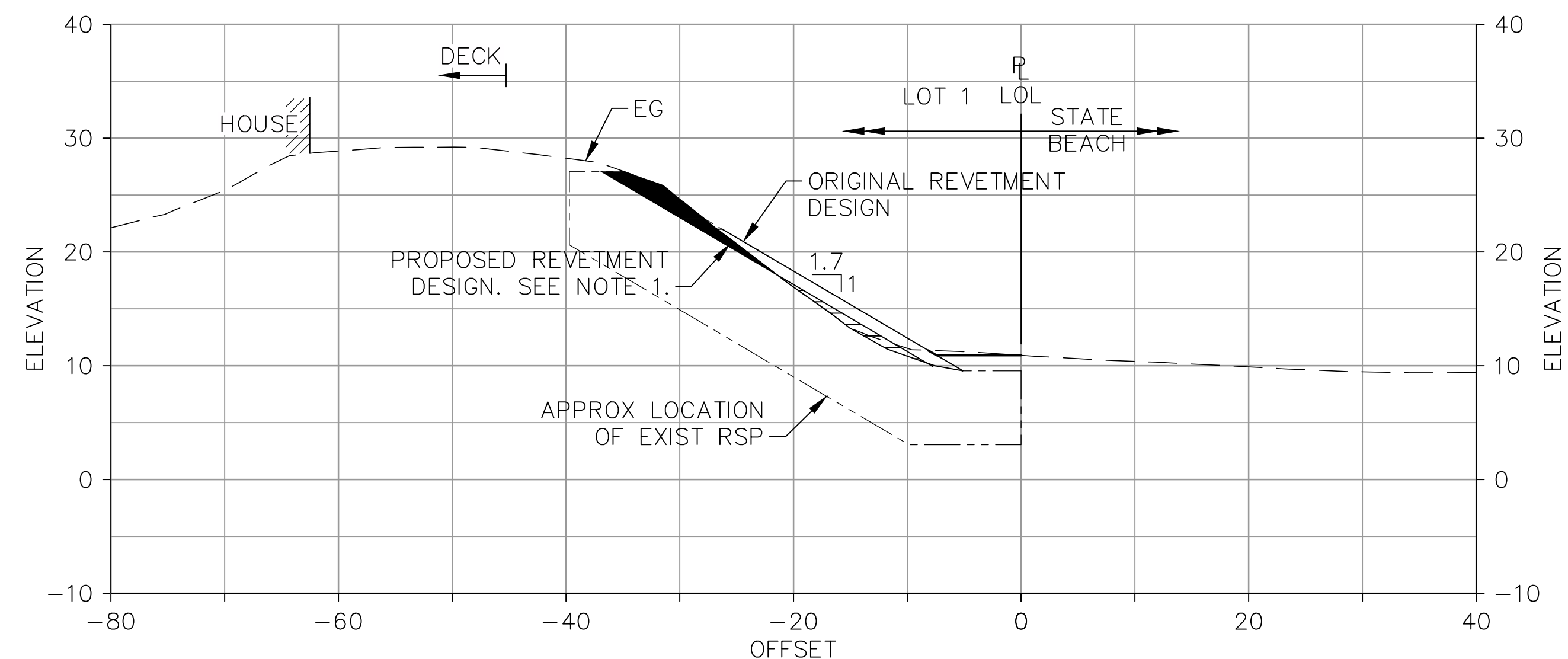
SECTION **LOT 4**
STA 7+30 **7**



SECTION **LOT 2**
STA 8+80 **7**



SECTION **LOT 3**
STA 8+10 **7**



SECTION **LOT 1**
STA 9+50 **7**

NOTES

1. PROPOSED REVETMENT DESIGN SLOPE MAY BE LOWERED UP TO 24" (TYP.) BELOW THE ORIGINAL REVETMENT DESIGN SLOPE (TOWARDS LOTS) FOR SELECTED SECTIONS. CONTRACTOR MAY SOURCE THE MATERIAL REMAINING IN FRONT OF THE PROPOSED REVETMENT SLOPE, IF NEEDED. SEE SOURCING PRIORITY LIST BELOW.
2. THERE WILL BE VARIABILITY IN CROSS SECTIONS ACROSS EACH LOT

PLACEMENT PRIORITY

- 1ST: PROPERTIES WITH SLOPES THAT ARE 1.5:1 OR STEEPER
- 2ND: PROPERTIES WITH SLOPES THAT ARE 1.7:1 OR STEEPER
- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

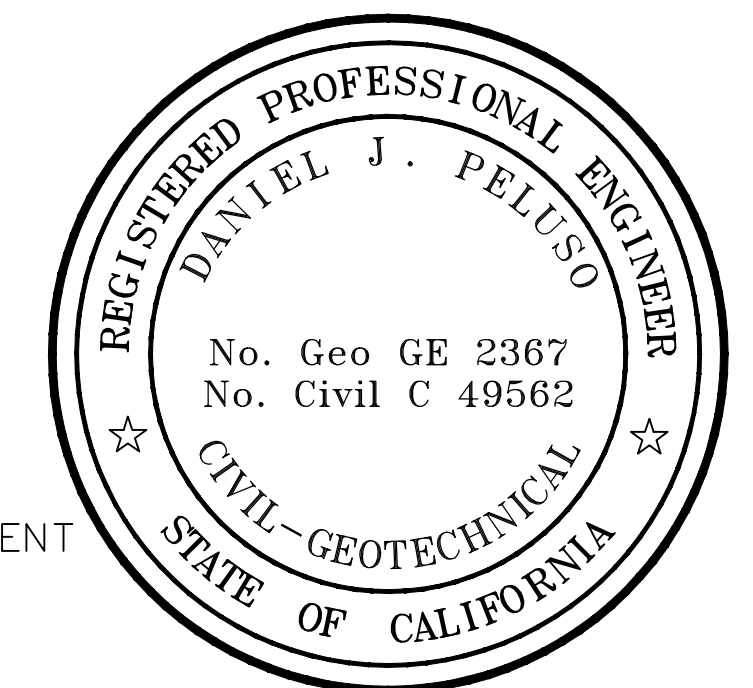
SOURCING PRIORITY

- 1ST: MATERIAL FROM STATE PROPERTY PLACED DURING EMERGENCY REPAIR (2004).
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- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

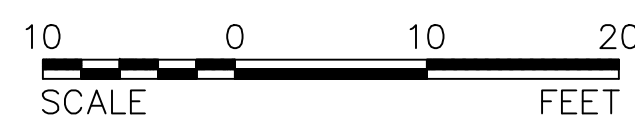
ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
4	1.7:1	102	15
3	2.0:1	61	31
2	1.7:1	22	36
1	1.7:1	24	54

LEGEND

- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING

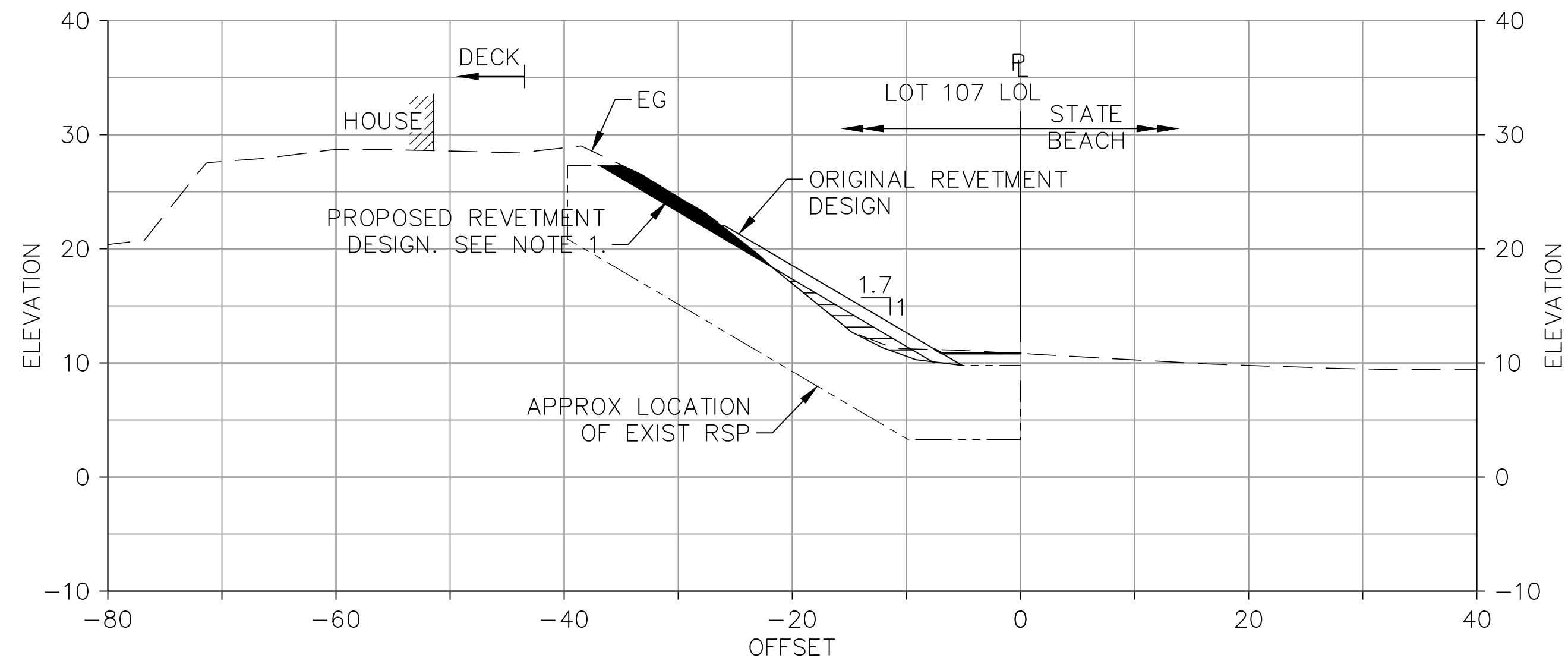


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MAY 2023**

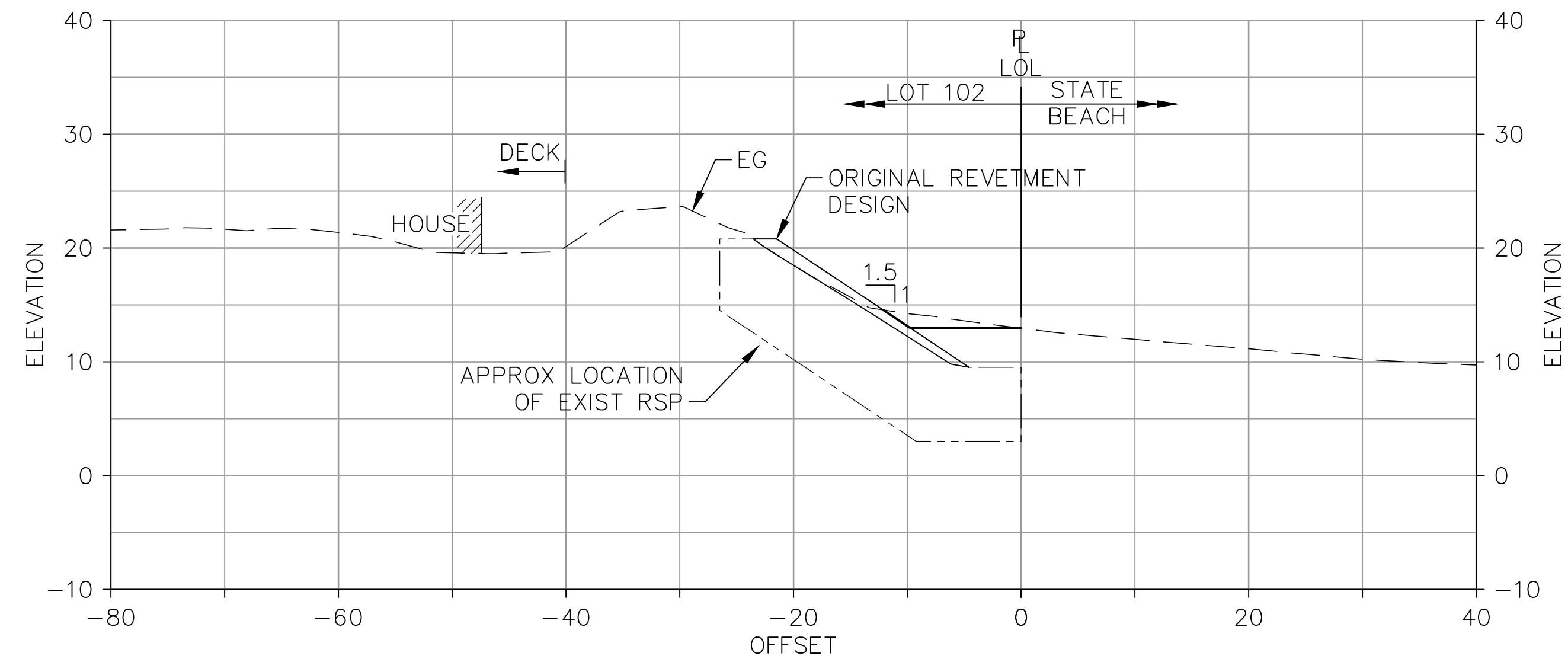


 CAL ENGINEERING & GEOLOGY	785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (4 OF 7)	
	DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780

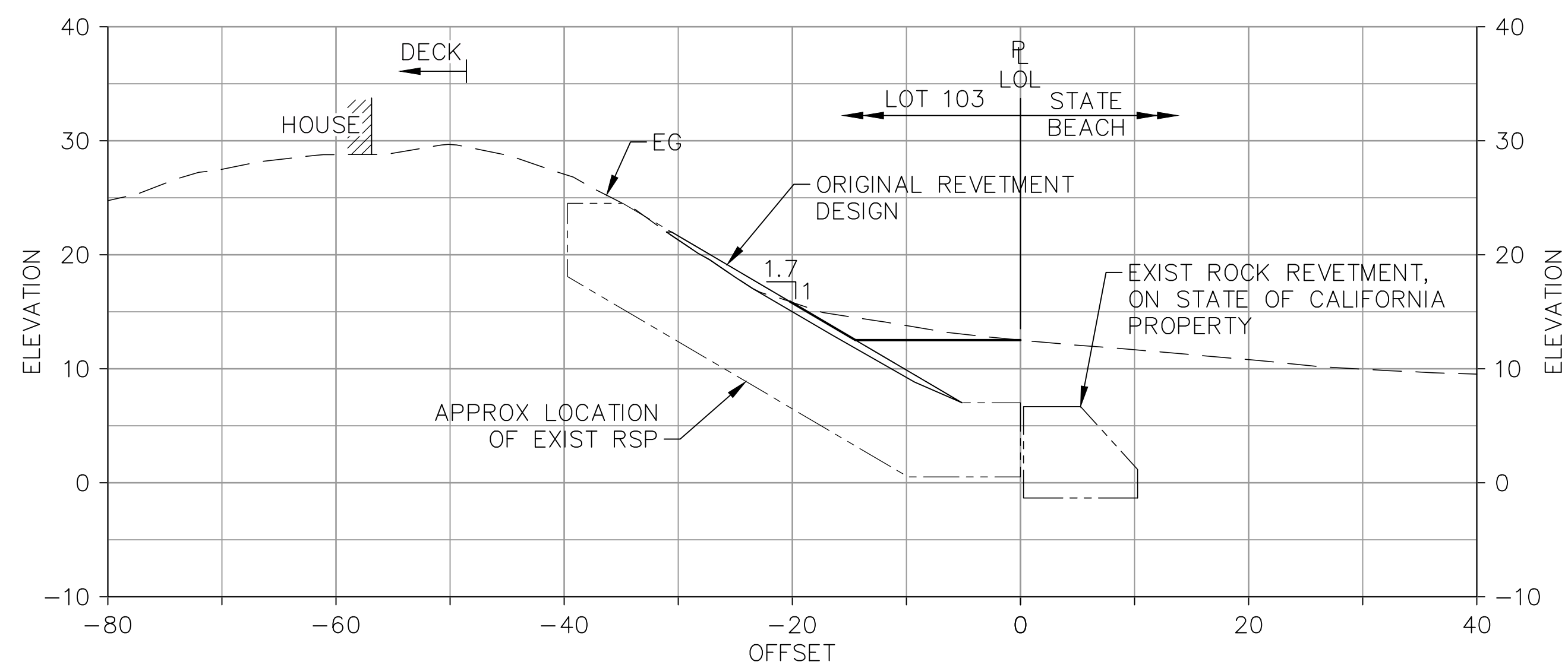
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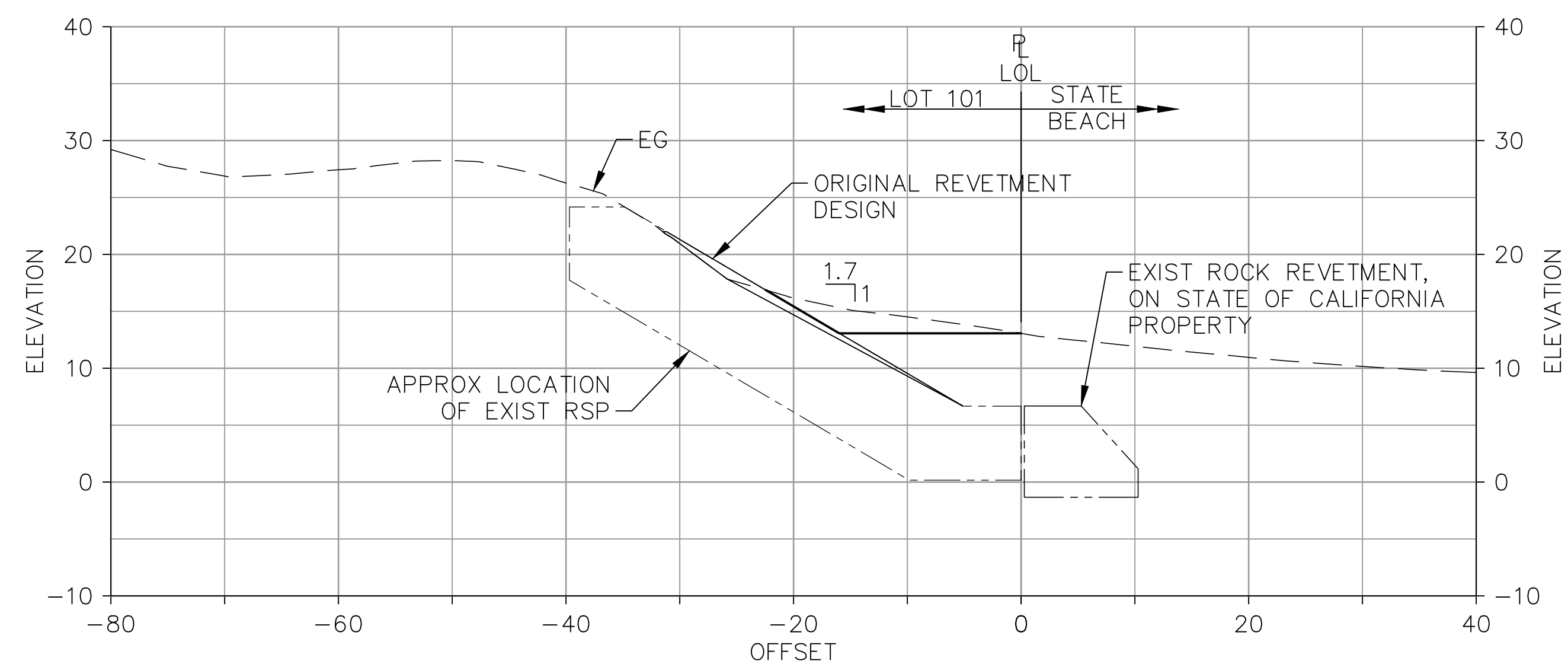
SECTION **LOT 107**
STA 10+20 **7**



SECTION **LOT 102**
STA 13+70 **8**



SECTION **LOT 103**
STA 13+00 **8**



SECTION **LOT 101**
STA 14+40 **8**

NOTES

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PLACEMENT PRIORITY

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- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

SOURCING PRIORITY

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- 2ND: MATERIAL FROM PROPERTIES WITH 2.0:1 SLOPES
- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

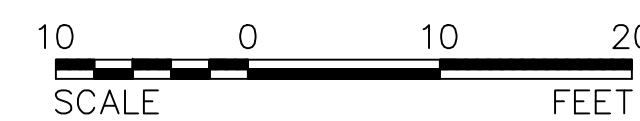
ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
107	1.7:1	42	49
103	1.7:1	0	0
102	1.5:1	0	0
101	1.7:1	0	0

LEGEND

- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING

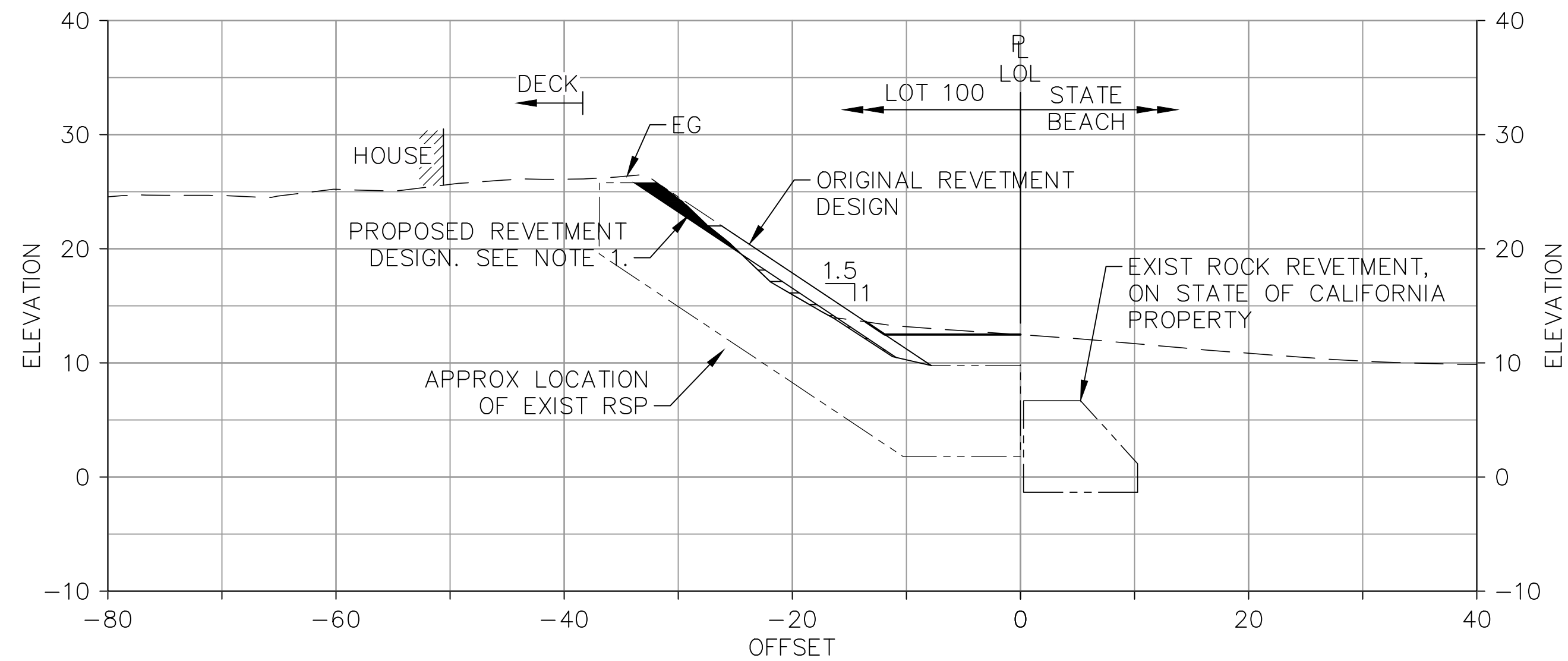


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MAY 2023**

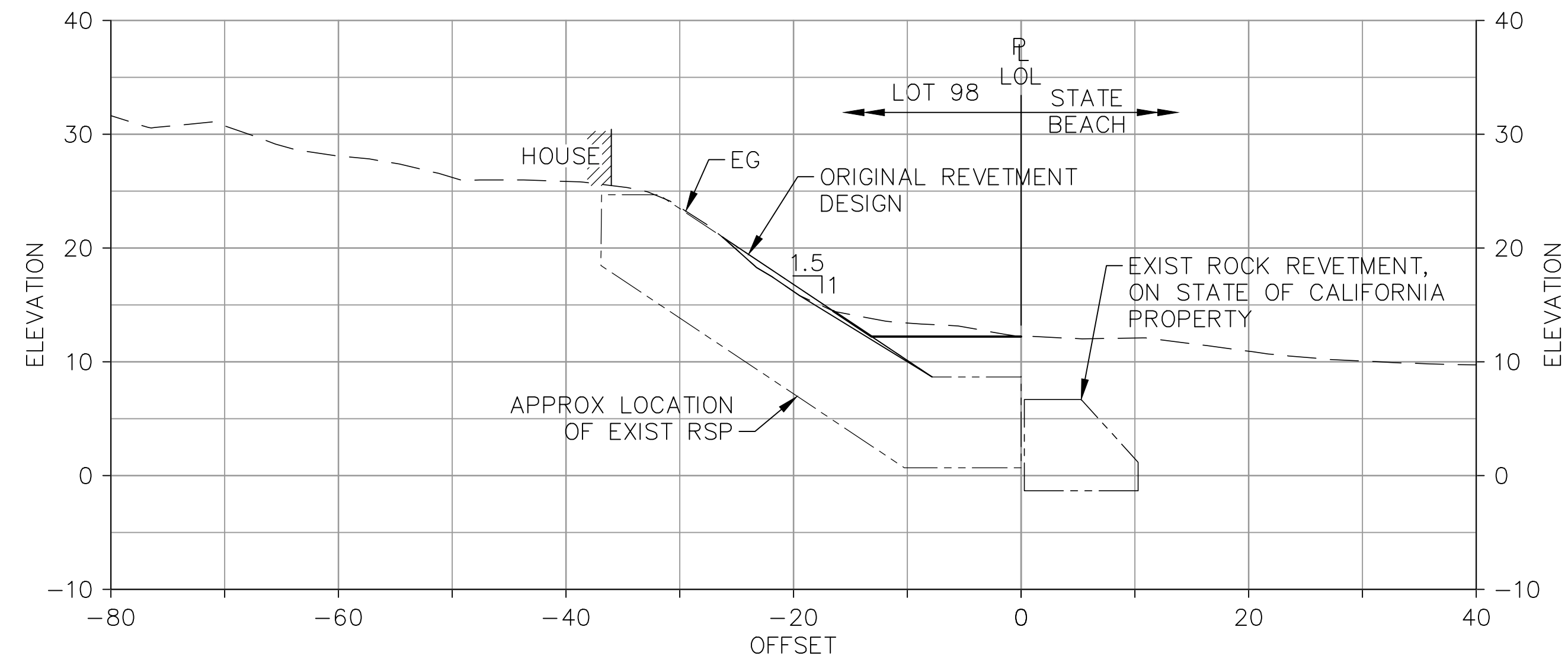


<p>CAL ENGINEERING & GEOLOGY</p> <p>785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771</p>	<p>PAJARO DUNES GHAD</p> <p>ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (5 OF 7)</p>		
	<p>DESIGNED C. HOCKETT</p>	<p>DRAWN K. DROZYNSKA</p>	<p>CHECKED D. PELUSO</p>
<p>DATE MAY 2023</p>		<p>SHEET NO. OF 14 16</p>	

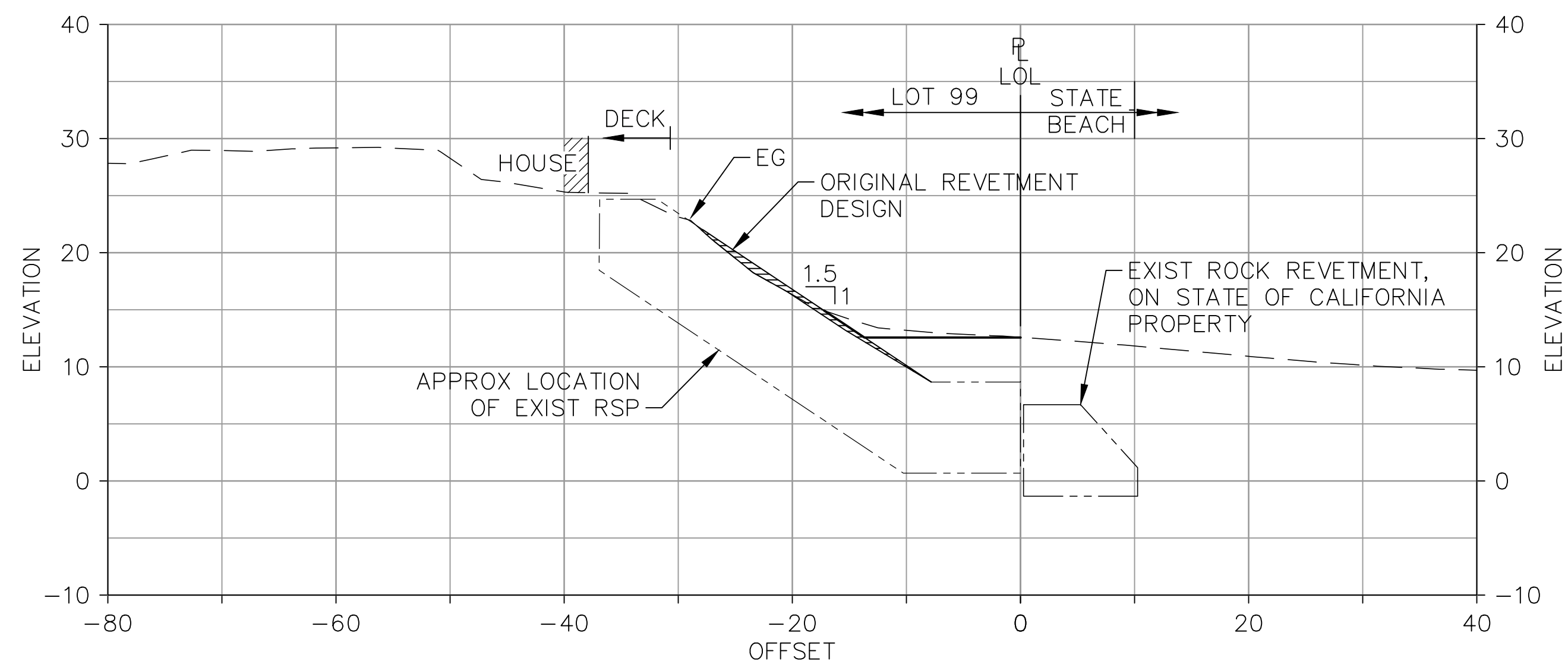
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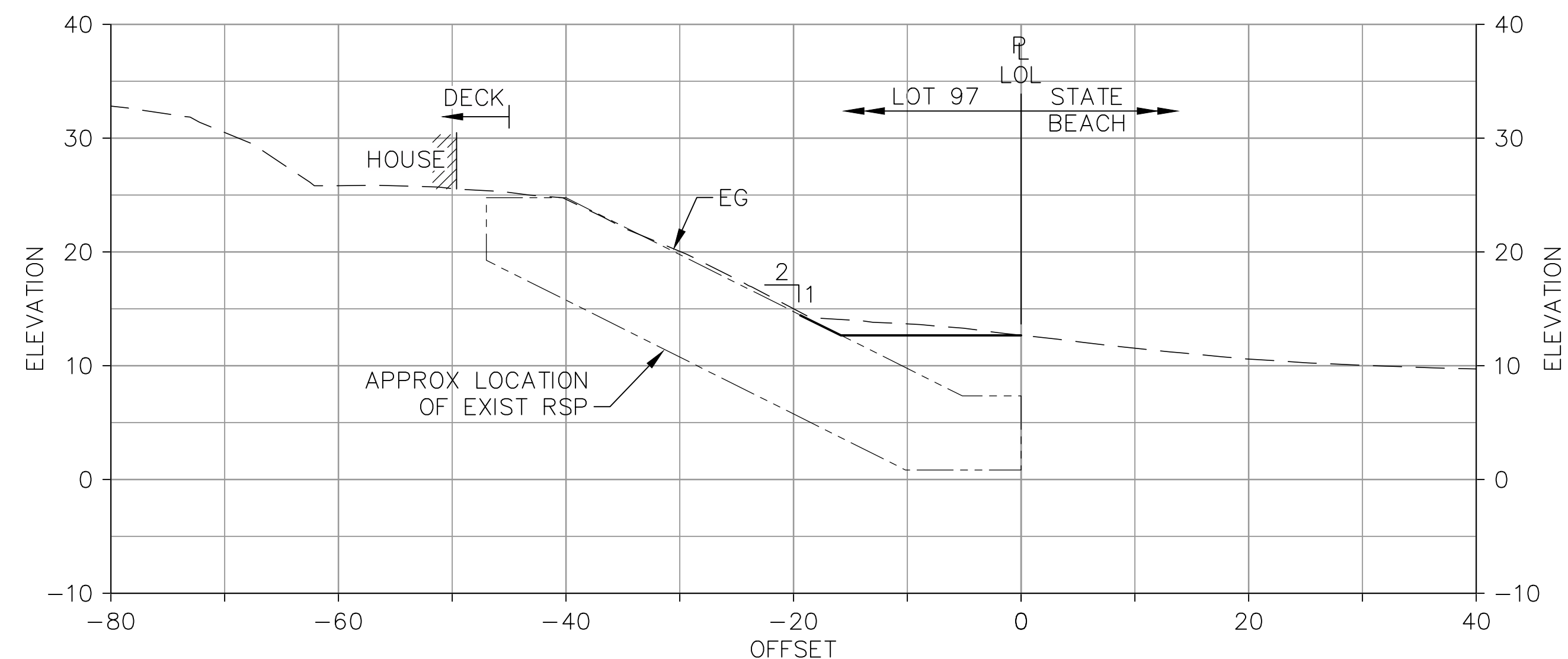
SECTION **LOT 100**
STA 15+10 **8**



SECTION **LOT 98**
STA 16+45 **9**



SECTION **LOT 99**
STA 15+80 **9**



SECTION **LOT 97**
STA 17+15 **9**

NOTES

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- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

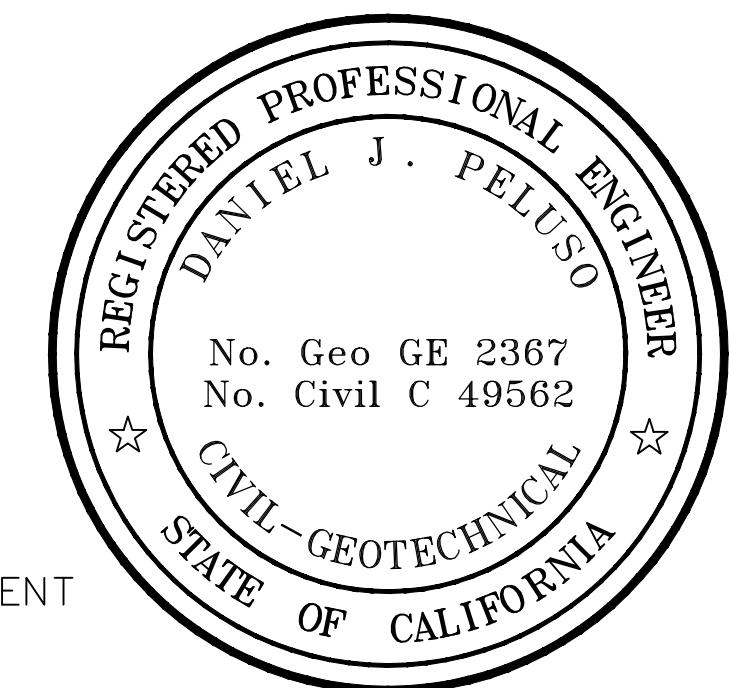
SOURCING PRIORITY

- 1ST: MATERIAL FROM STATE PROPERTY PLACED DURING EMERGENCY REPAIR (2004).
- 2ND: MATERIAL FROM PROPERTIES WITH 2.0:1 SLOPES
- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

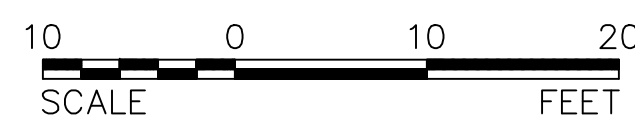
ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
100	1.5:1	16	24
99	1.5:1	30	0
98	1.5:1	0	0
97	2.0:1	0	0

LEGEND

- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING

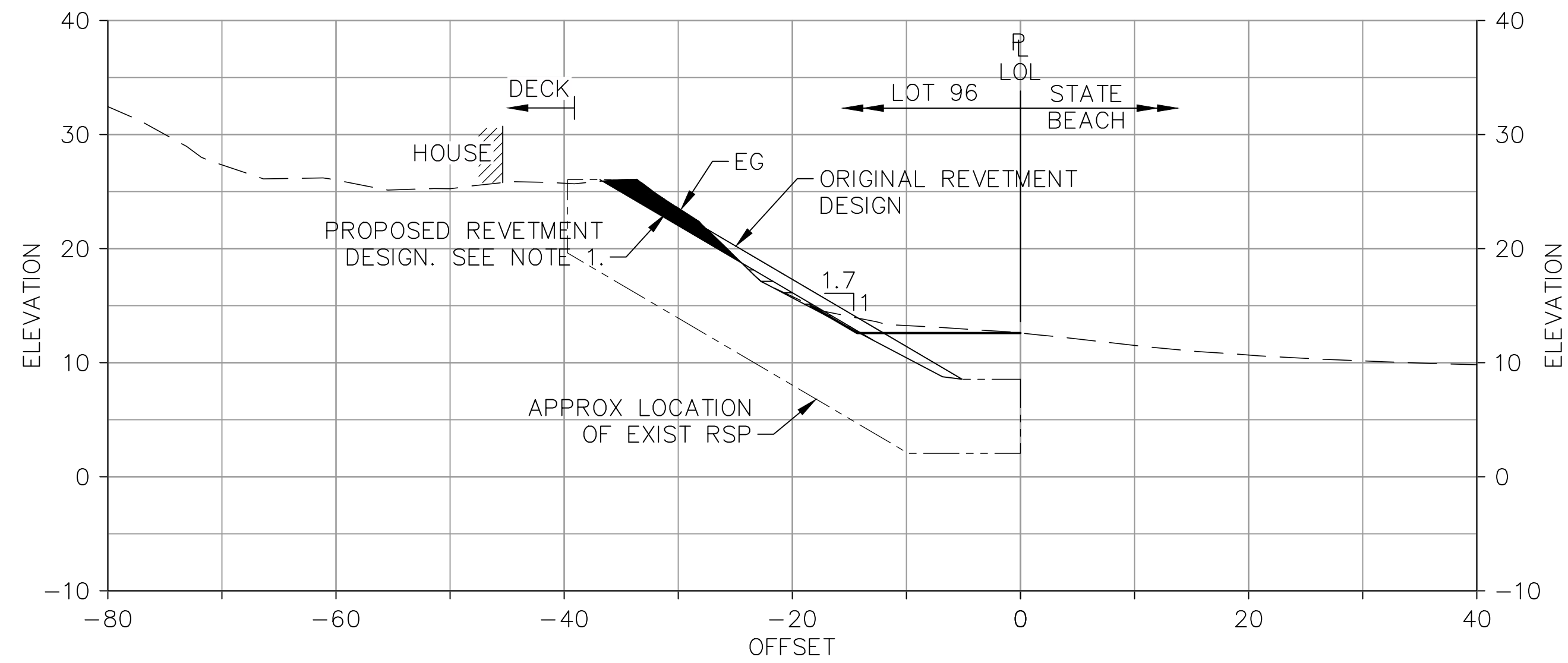


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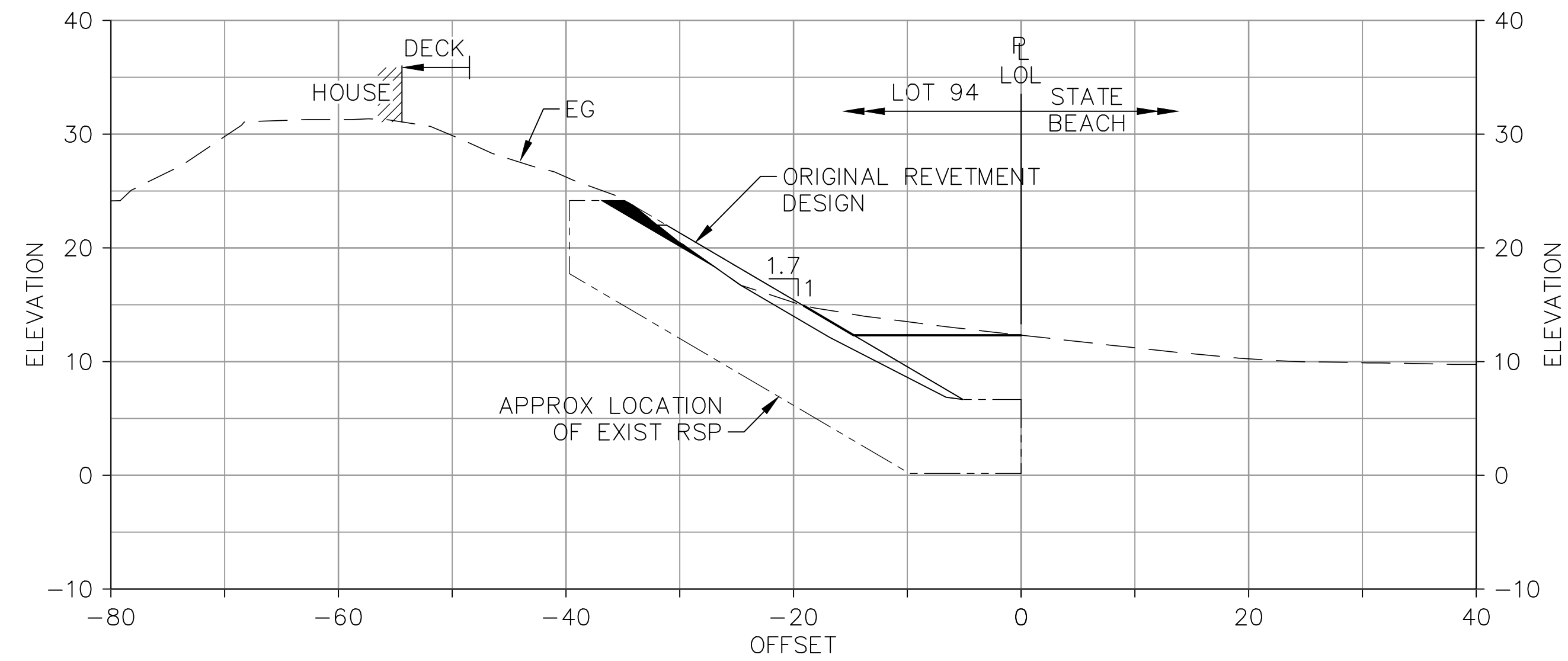


		785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771	
		PAJARO DUNES GHAD ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (6 OF 7)	
DESIGNED C. HOCKETT	DRAWN K. DROZYNSKA	CHECKED D. PELUSO	PROJECT NO. 190780
DATE MAY 2023		SHEET NO. OF 15 OF 16	

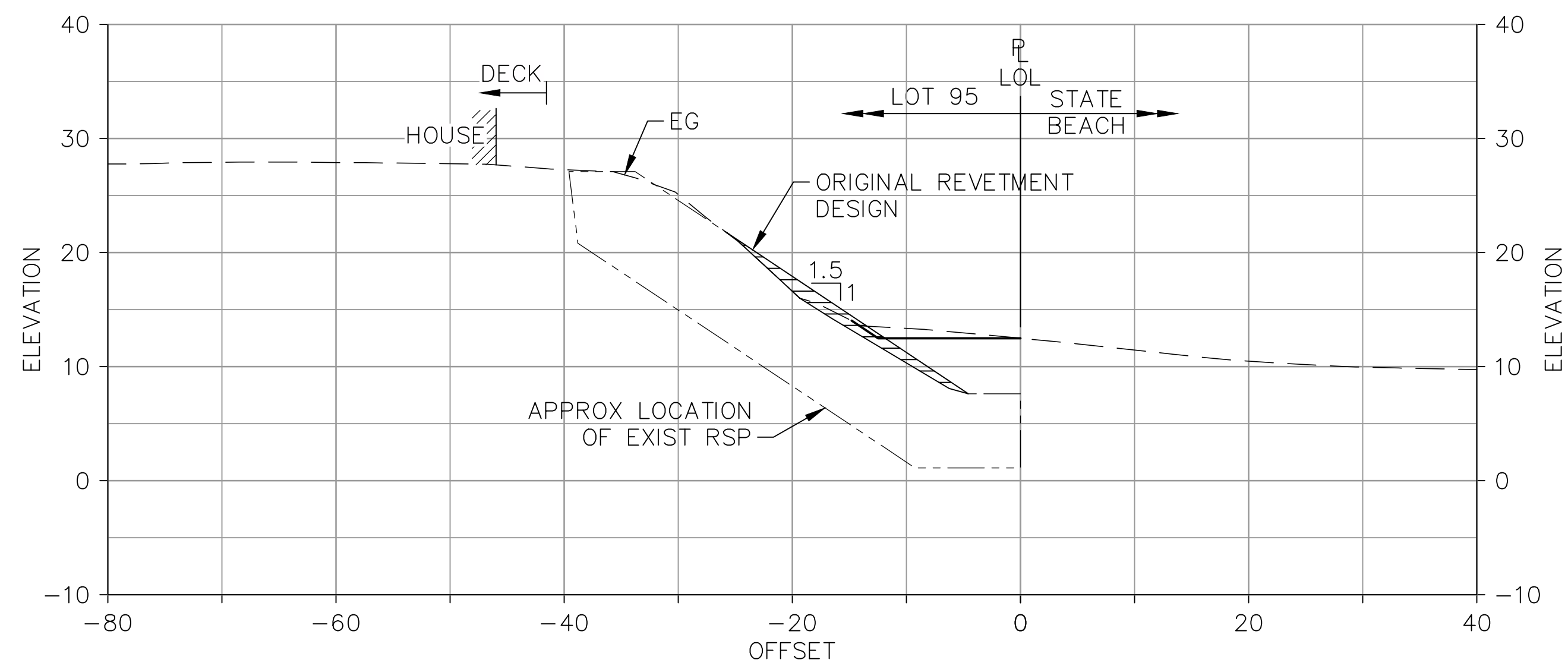
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SECTION **LOT 96**
STA 17+80 **9**



SECTION **LOT 94**
STA 19+25 **9**



SECTION **LOT 95**
STA 18+50 **9**

NOTES

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PLACEMENT PRIORITY

- 1ST: PROPERTIES WITH SLOPES THAT ARE 1.5:1 OR STEEPER
- 2ND: PROPERTIES WITH SLOPES THAT ARE 1.7:1 OR STEEPER
- 3RD: PROPERTIES WITH SLOPES THAT ARE 2.0:1 OR STEEPER

SOURCING PRIORITY

- 1ST: MATERIAL FROM STATE PROPERTY PLACED DURING EMERGENCY REPAIR (2004).
- 2ND: MATERIAL FROM PROPERTIES WITH 2.0:1 SLOPES
- 3RD: MATERIAL FROM PROPERTIES WITH 1.7:1 SLOPES
- 4TH: MATERIAL FROM PROPERTIES WITH 1.5:1 SLOPES

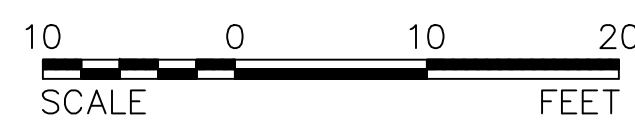
ROCK REVETMENT PLACEMENT AND SOURCING			
LOT	SLOPE	PLACEMENT (TONS)	SOURCING (TONS)
96	1.7:1	12	51
95	1.5:1	67	0
94	1.7:1	0	22

LEGEND

- AREAS REQUIRING ROCK PLACEMENT
- ROCK AVAILABLE FOR SOURCING



**100% SUBMITTAL
NOT FOR CONSTRUCTION
MAY 2023**



<p>CAL ENGINEERING & GEOLOGY</p> <p>785 Ygnacio Valley Road Walnut Creek, CA 94596 Phone: (925) 935-9771</p>	<p>PAJARO DUNES GHAD</p> <p>ROCK REVETMENT MAINTENANCE PAJARO DUNES RESORT, WATSONVILLE, CALIFORNIA SECTIONS (7 OF 7)</p>		
	<p>DESIGNED C. HOCKETT</p>	<p>DRAWN K. DROZYNSKA</p>	<p>CHECKED D. PELUSO</p>
		<p>DATE MAY 2023</p>	<p>SHEET NO. OF 16 16</p>

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