



OC PUBLIC WORKS DEPARTMENT

KEVIN ONUMA, INTERIM DIRECTOR OF PUBLIC WORKS

CAPISTRANO BEACH/ DOHENY STATE BEACH

SHORELINE PROJECT



CGPS "P471"
N: 2150595.47'
E: 6168438.89'
THIS IS A CONTINUOUS GPS STATION
(CGPS) AND IS PART OF THE CALIFORNIA
SPATIAL REFERENCE NETWORK (CSRN).

CGPS "SBCC"
N: 2147751.75'
E: 6131651.74'
THIS IS A CONTINUOUS GPS STATION
(CGPS) AND IS PART OF THE CALIFORNIA
SPATIAL REFERENCE NETWORK (CSRN).

N85°34'47"E 36,896.90'
BASIS OF BEARINGS

N04°50'32"E 35,310.34'

SHT. 5

SHT. 4

SHT. 3

SHT. 2

CP# 3703
FD 1-1/2" I.D. IRON PIPE-CONC PLUG DOWN
0.50' IN SAND
N: 2112567.44'
E: 6128671.18'

CP# 307
FD LEAD-BN & 1-1/4" TAG STMPD "OCS"
FLUSH IN SIDEWALK
N: 2112209.75'
E: 6129072.80'

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT, AS DETERMINED LOCALLY BY A LINE BETWEEN CONTINUOUS GLOBAL POSITIONING STATIONS CGPS STATIONS (SBCC) AND (P471) BEING NORTH 85°34'47" EAST AS DERIVED FROM THE COORDINATES PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) ALONG WITH DATA SHEETS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

HORIZONTAL DATUM

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83), ZONE VI, NAD 83, OCS (2017.50) EPOCH ADJUSTMENT.
ALL DISTANCES SHOWN ARE GRID, UNLESS OTHERWISE NOTED. TO OBTAIN GROUND DISTANCES MULTIPLY GRID BY A COMBINED FACTOR OF 1.00003920.
THIS COMBINATION FACTOR WAS HELD AT: CP# 307
N: 2112209.75' E: 6129072.80' EL: 15.74'
ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT.

VERTICAL DATUM

MEAN LOWER-LOW WATER (MLLW)
ELEVATIONS SHOWN ARE DERIVED BY A CONVERSION FROM NGVD29 TO MLLW. THAT CONVERSION BEING 2.52' FROM BM 3B-50-68 TO TIDAL STATION 9410580.
THE COUNTY WIDE VERTICAL DIFFERENCE AVERAGE OF 2.34' BETWEEN NGVD29 AND NAVD88 ALONG WITH THE NAVD88 ADJUSTMENT OF 0.18' FROM TIDAL STATION 9410580, EPOCH 1983-2001 WAS USED TO DETERMINE THE CONVERSION.
O.C.S. BM. 3B-50-68 ELEV. = 14.707' NGVD29 YEAR LEVELED: 1989
ADJUSTMENT= 14.707'+2.52'=17.227' MLLW
DESCRIPTION: FOUND 3-3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3B-50-68", SET IN THE SOUTHERLY END OF A CONCRETE HEADWALL FOR A 24" CULVERT. MONUMENT IS LOCATED ALONG THE SOUTHWESTERLY SIDE OF PACIFIC COAST HIGHWAY, 0.55 MILES SOUTHWESTERLY OF THE CENTERLINE OF DEL OBISPO, 0.05 MILES NORTHERLY ALONG PCH FROM A PEDESTRIAN BRIDGE AND 40.4' WESTERLY OF THE CENTERLINE OF PCH. MONUMENT IS SET LEVEL WITH THE TOP OF THE WALL.

NOTES

THE SURVEY INFORMATION SHOWN HEREON IS TO BE USED FOR TOPOGRAPHIC RELATIONSHIPS ONLY AND IS NOT INTENDED FOR LAND ACQUISITION OR BOUNDARY PURPOSES. BOUNDARY, RIGHT OF WAY, AND EASEMENT LINEWORK SHOWN HEREIN IS PRELIMINARY AND DERIVED FROM GEOGRAPHICAL INFORMATION SYSTEM (GIS).

SHEET INDEX

SHEET	NO.	DESCRIPTION
SHEET	1	TITLE SHEET
SHEETS	2-5	TOPOGRAPHIC MAP

PURPOSE OF SURVEY

THE PURPOSE OF THE SURVEY IS TO ESTABLISH THE MEAN HIGH WATER (MHW) AND MEAN HIGHER HIGH WATER (MHHW), AND TO PROVIDE TOPOGRAPHY FOR THIS PORTION OF THE CAPISTRANO/DOHENY SHORELINE PROJECT.

LOCATION MAP



SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 24 DAY OF OCTOBER, 2024.

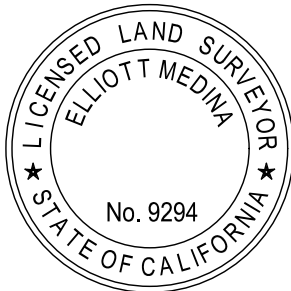
MICHAEL KUBISTY, PLS. SENIOR LAND SURVEYOR



SENIOR LAND SURVEYOR'S CERTIFICATE:

THIS MAP HAS BEEN EXAMINED IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT; THIS 24 DAY OF OCTOBER, 2024.

ELLIOTT MEDINA, PLS. SENIOR LAND SURVEYOR



U.S. Survey Foot

OC Public Works
OC Survey/Field Services
Boundary Analysis & Mapping

TOPOGRAPHIC MAPPING PROJECT

		COUNTY OF ORANGE OC PUBLIC WORKS OC SURVEY/FIELD SERVICES/BOUNDARY ANALYSIS & MAPPING	
		DOHENY SHORELINE PROJECT MEAN HIGH TIDE DETERMINATION	
		TITLE SHEET	
		PROJECT LIMITS: FROM THE S.E. CORNER OF PARCEL 101 PER BK 4063/88 O.R. TO 2767' NWLY ALONG SHORELINE OF CAPISTRANO/DOHENY BEACH	
		DATE OF SURVEY: 09/19/2024	BY: E. OSTROWSKI & CREW
		MAPPING	BY: P. MAGUIRE, PLS
		OFFICE CHECK	BY: E. MEDINA, PLS
		FIELD CHECK	BY: E. OSTROWSKI & CREW
		SCALE: N.T.S.	W.O. #EC41918E
		FILE: #2425PW-ENG0003	
		FILE: CAPISTRANO_TOPO_2024.DWG	
1	10/24/24	ADDED MHHW CONTOUR	
MARK	DATE	ITEM	
		REVISIONS	
		SHEET NO.	1 of 5

SEE SHEET 3



LEGEND

SYMBOL

△ Control Point

ABBREVIATION

APN Area Parcel Number
CP Control Point
EL Elevation
*MHHW Mean High Higher Water
*MHW Mean High Water
O.R. Official Records
SS Stainless Steel
GIS Geographic Information System

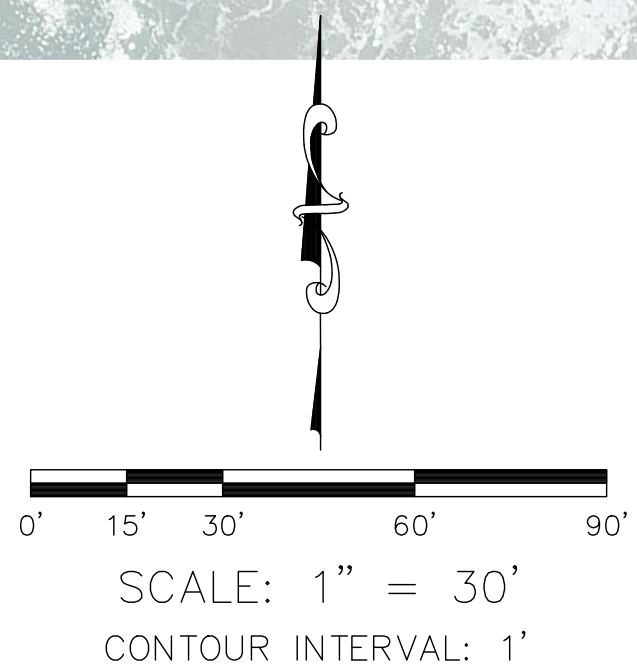
LINE PATTERN KEY

GIS Parcel Lines

AREA PATTERN KEY

Sand
Rip Rap
Sand Cubes

* PER DATA SHEET ON FILE WITH THE
NATIONAL OCEANIC & ATMOSPHERIC
ADMINISTRATION (NOAA)
STATION 9410580, NEWPORT BEACH,
NEWPORT BAY ENTRANCE CA



U.S. Foot

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		FILE: #2425PW-ENG0003	FILE: #2425PW-ENG0003
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MARK	DATE	ITEM	
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SHEET NO.
2
of
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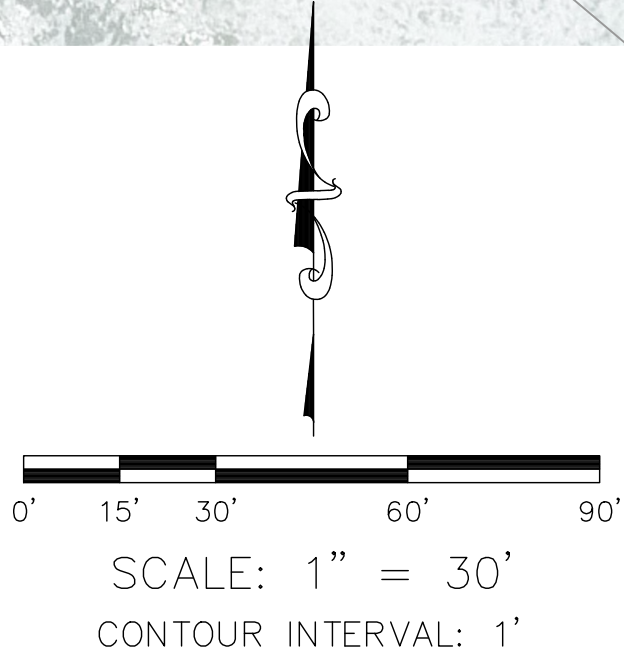
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		SHEET NO. 3 of 5	

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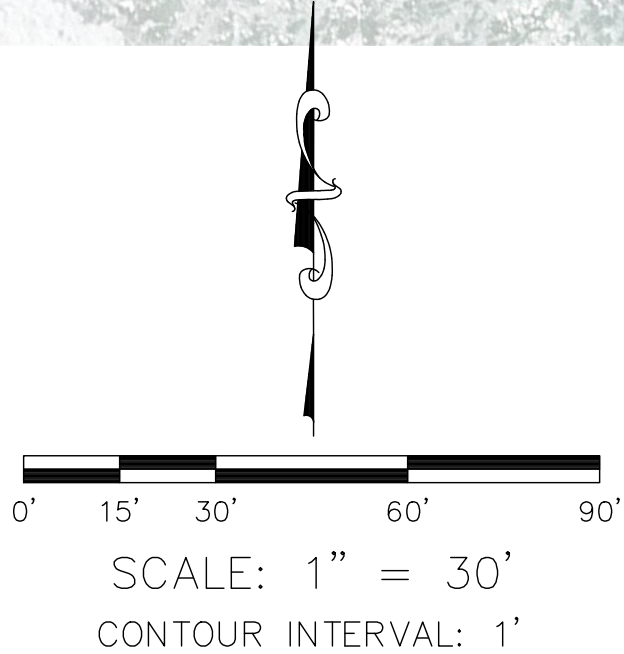
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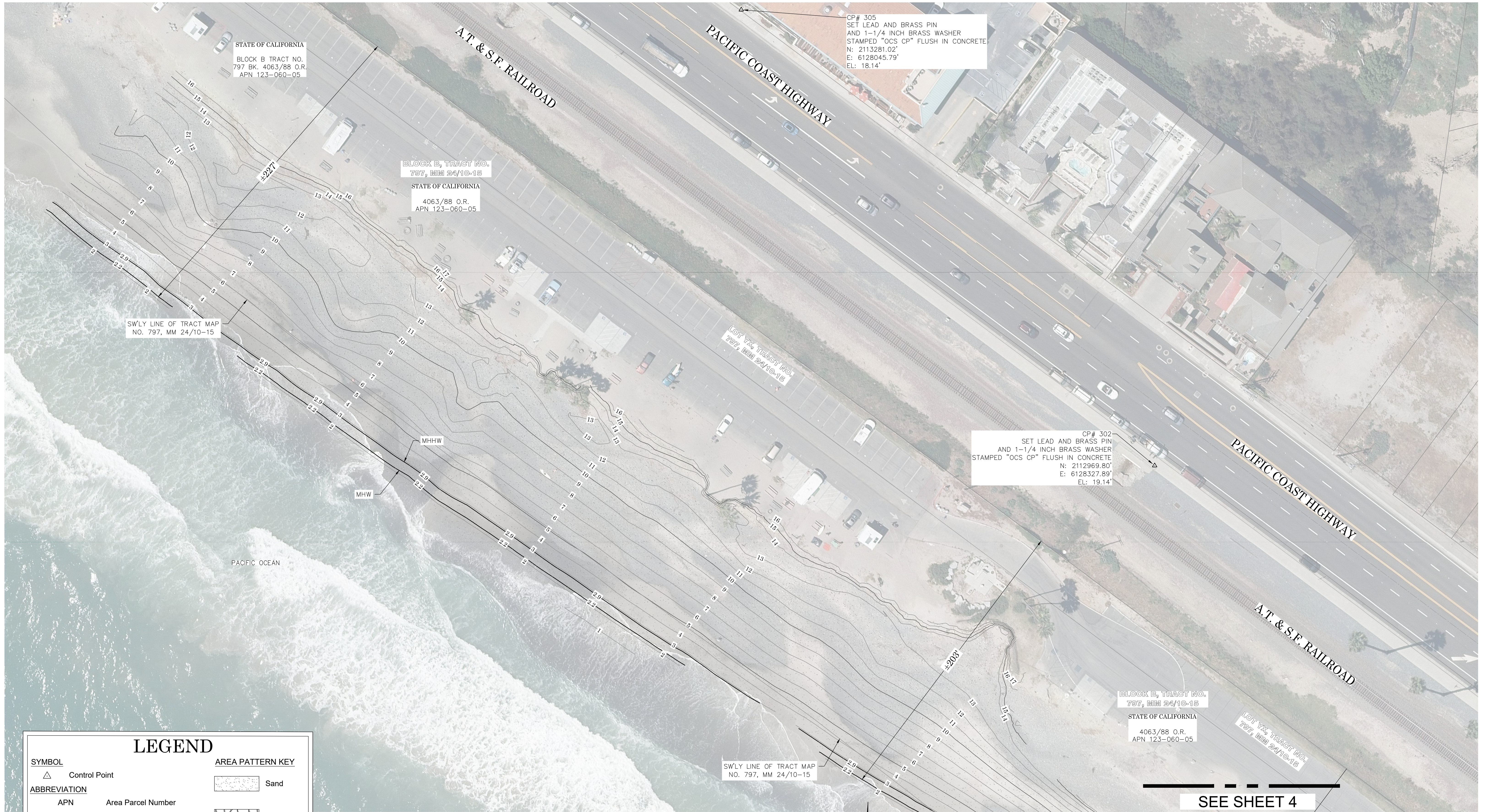
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0' 15' 30' 60' 90'

SCALE: 1" = 30'

CONTOUR INTERVAL: 1'

U.S. Survey
Foot

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SEE SHEET 4

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