ODDSTAD WAY

PACIFICA CA 94112

APN: LOT-6 (022-056-080)
LOT-7 (022-056-090)
LOT-8
LOT-9 (022-056-060)
LOT-10 (022-056-070)
LOT-11
LOT-12 (022-064-010)

PROJECT INFORMATION

OWNER

- OWNER: JAVIER DIAZ

SITE

- ZONNING R-1
- OCCUPANCY GROUP R3/U
- BUILDING TYPE VB
- GENERAL PLAN DESIGNATION VERY LOW DENSITY

APPLICABLE CODES:

- 2013 CALIFORNIA RESIDENTIAL CODE
- 2013 CALIFORNIA BUILDING CODE
- 2013 CALIFORNIA MECHANICAL CODE
- 2013 CALIFORNIA ELECTRICAL CODE
- 2013 CALIFORNIA PLUMBING CODE
- 2013 CALIFORNIA ENERGY STANDARDS
- 2013 CALIFORNIA GREEN BUILIDNG CODE
- ALL OTHER LOCAL AND STATE REGULATIONS APPLICABLE TO THIS PROJECT

SCOPE OF WORK

- MERGER OF THE TWO LOTS SHOWN ON SITE PLAN CONSTRUCTION OF A NEW SINGLE FAMILY HOME EXTENSION OF A PUBLIC ROAD TO PROVIDE ACCESS TO THE HOMES

BUILDING

- LOT AREA 31,269.65 SQ FT
- FOOT PRINT 2,855.06 SQ.FT(MAIN HOUSE)
  517.59 SQ FT (RECREATION HOUSE)
- LOT COVERAGE 11.0%

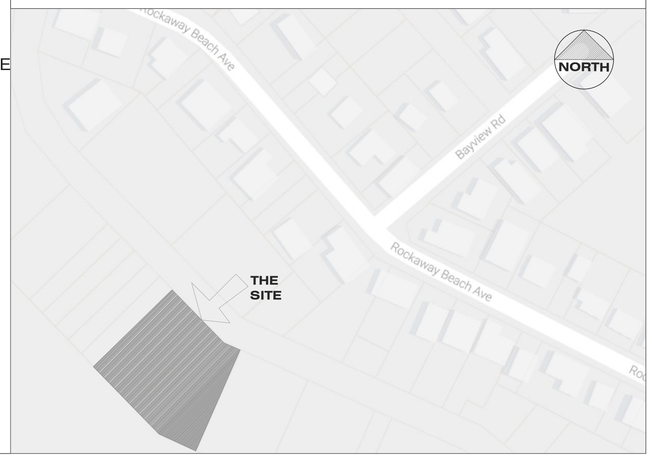
DESCRIPTION	AREA (Sq. Ft)		
	FIRST FLOOR (Sq.Ft)	SECOND FLOOR (Sq.Ft)	TOTAL (Sq. Ft)
LIVING AREA(MAIN HOUSE)	2497.37	1302.55	3799.92
BALCONY	357.69	505.32	863.01
LIVING AREA (RECREATION HOME)	517.60	-	517.60
BALCONY	146.88	-	146.88
ACCESSORY BUILDING	-	434.61	434.61
PERMEABLE PAVERS	5063.87		5,063.87
LANDSCAPE (PLANTS AND GARDENS)	2500.00	-	2,500.00
AREA TO REMAIN IN NATURAL CONDITION	20333.13		20333.13
GARAGE	786.76	-	786.76
TOTAL LIVING AREA	**3014.97**	**1302.6**	4317.7

INDEX OF DRAWING

A-0 ● PROJECT INFORMATION
A-0.1 ● TOPOGRAPHIC SURVEY
C-1 ●ROAD EXTENSION PLAN
C-2 ● ROAD GRADING PLAN AND EROSION CONTROL
C-3 ● ROAD SECTIONS
C-4 ● GRADING TO ACCESS LOT 6 TO 12
A-1 ● SITE PLAN
A-1.1 ● GRADING PLAN
A-1.2 ● LANDSCAPE PLAN
A-1.3 ● ROOF PLAN
A-2 ● GARAGE AND FIRST FLOOR PLAN
A-3 ● SECOND FLOOR AREA AND AREA CALCULATION
A-4 ● ROOF FLOOR PLAN
A-5 ● FRONT AND REAR ELEVATION
A-5.1 ● LIGHT FIXTURE ELEVATION
A-6 ● RIGHT AND LEFT ELEVATION
A-6.1 ● LIGHT FIXTURE ELEVATION
A-7 ● SECTIONS (MAIN HOUSE)
A-8 ● FLOOR PLANS AND ELEVATION - RECREATION HOME
A-9 ● FLOOR PLANS, ELEVATION AND LIGHT FIXTURE - RECREATION HOME

AERIAL VIEW

VICINITY MAP



J C ENGINEERING

848 BURNS CT.
PACIFICA, CA 94044
(650) 355 0615
FAX (650) 355 8965

CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

- PROJECT INFORMATION

DATE	ISSUED FOR
07/29/16	PLANING SET

Drawn by:
Checked by: JC

project no 2016

sheet no. A-0

TOPOGRAPHIC SURVEY

LOTS 6-7, 8-9, 10, 11-12
PACIFICA,CA 94044

SAN MATEO COUNTY - CALIFORNIA

SCALE: 1 inch = 20 feet JUNE 2016

OWNER:

LANDS OF DIAZ–MASIAS

APN:

PARCEL LOT–6 (022–056–080)
LOT–7 (022–056–090)

PARCEL LOT–8
LOT–9 (022–056–060)

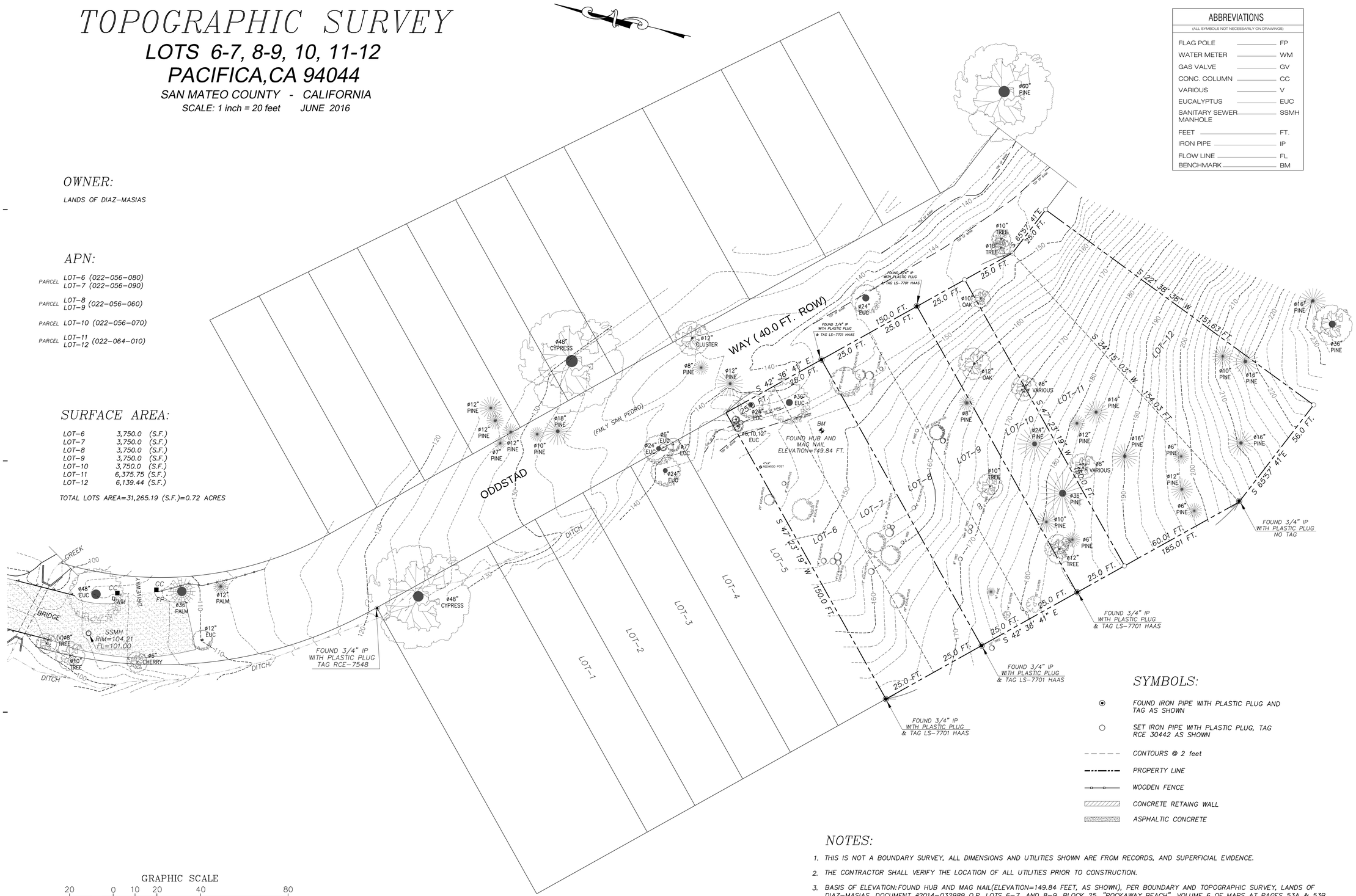
PARCEL LOT–10 (022–056–070)

PARCEL LOT–11
LOT–12 (022–064–010)

SURFACE AREA:

LOT–6	3,750.0	(S.F.)
LOT–7	3,750.0	(S.F.)
LOT–8	3,750.0	(S.F.)
LOT–9	3,750.0	(S.F.)
LOT–10	3,750.0	(S.F.)
LOT–11	6,375.75	(S.F.)
LOT–12	6,139.44	(S.F.)

TOTAL LOTS AREA=31,265.19 (S.F.)=0.72 ACRES



ABBREVIATIONS

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

FLAG POLE	FP
WATER METER	WM
GAS VALVE	GV
CONC. COLUMN	CC
VARIOUS	V
EUCALYPTUS	EUC
SANITARY SEWER MANHOLE	SSMH
FEET	FT.
IRON PIPE	IP
FLOW LINE	FL
BENCHMARK	BM

SYMBOLS:

- FOUND IRON PIPE WITH PLASTIC PLUG AND TAG AS SHOWN
- SET IRON PIPE WITH PLASTIC PLUG, TAG RCE 30442 AS SHOWN
- CONTOURS @ 2 feet
- PROPERTY LINE
- WOODEN FENCE
- CONCRETE RETAING WALL
- ASPHALTIC CONCRETE

NOTES:

1. THIS IS NOT A BOUNDARY SURVEY, ALL DIMENSIONS AND UTILITIES SHOWN ARE FROM RECORDS, AND SUPERFICIAL EVIDENCE.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. BASIS OF ELEVATION: FOUND HUB AND MAG NAIL(ELEVATION=149.84 FEET, AS SHOWN), PER BOUNDARY AND TOPOGRAPHIC SURVEY, LANDS OF DIAZ–MASIAS, DOCUMENT #2014–032989 O.R. LOTS 6–7, AND 8–9, BLOCK 25, "ROCKAWAY BEACH", VOLUME 6 OF MAPS AT PAGES 53A & 53B, ASSESSOR'S PARCEL NUMBERS: 022–056–080, 022–056–090, 022–056–060, ODDSTAD WAY, PACIFICA, SAN MATEO COUNTY, CALIFORNIA, APRIL 2014.
4. BASIS OF BEARINGS: THE CALCULATED BEARING, S 16° 47' 52"E BETWEEN TWO FOUND IRON PIPES, AS SHOWN ON THAT CERTAIN RECORD OF SURVEY, DESCRIBED IN THE PARAGRAPH 3, ABOVE.
5. TOTAL SURFACE LOTS AREA: 31,265.19 SQUARE FEET OR 0.72 ACRES.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

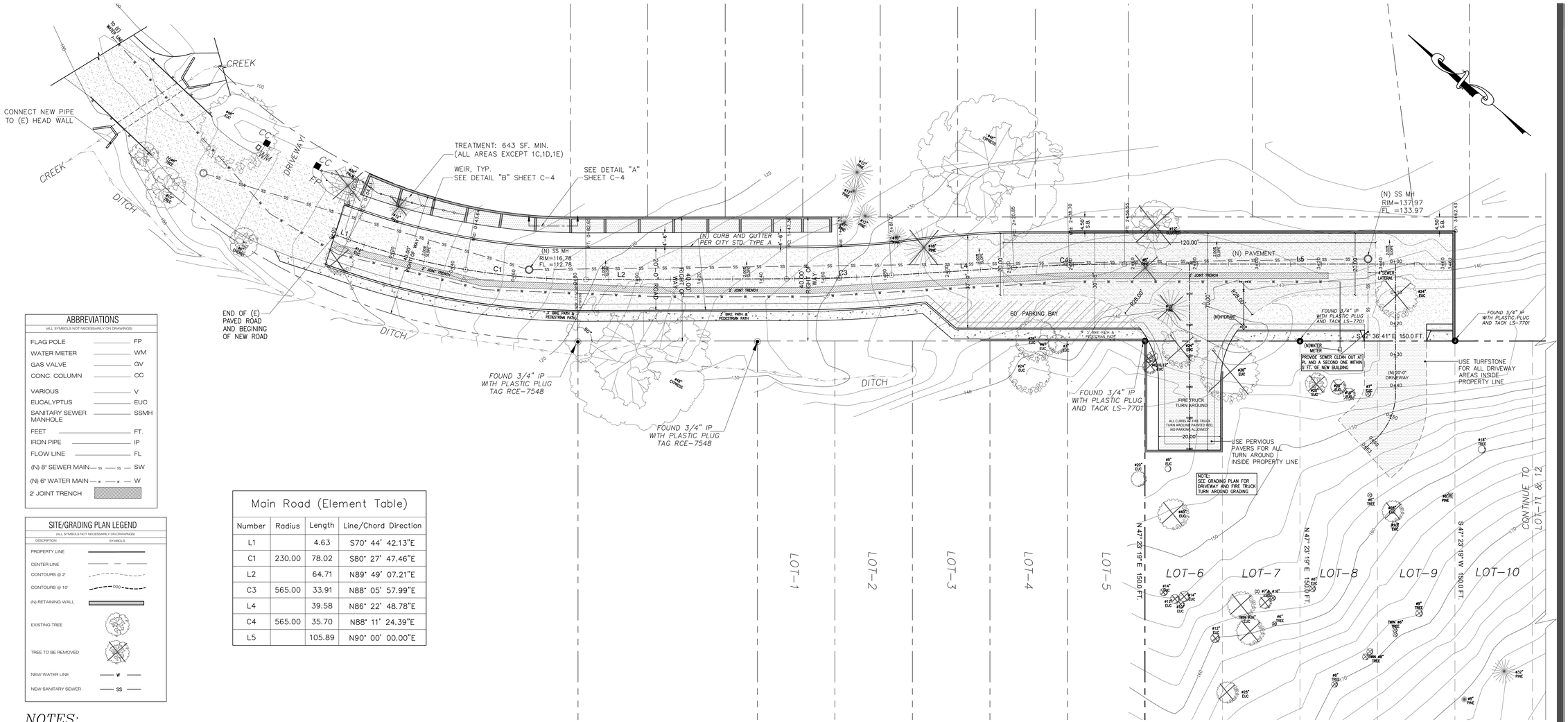
LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:
TOPOGRAPHIC SURVEY

DATE	ISSUED FOR

Drawn by:
Checked by: JC

project no 140613
sheet no.



ABBREVIATIONS

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

FLAG POLE	FP
WATER METER	WM
GAS VALVE	GV
CONC. COLUMN	CC
VARIOUS	V
EUCALYPTUS	EUC
SANITARY SEWER MANHOLE	SSMH
FEET	FT.
IRON PIPE	IP
FLOW LINE	FL
(N) 8" SEWER MAIN	SW
(N) 6" WATER MAIN	W
2' JOINT TRENCH	

SITE/GRADING PLAN LEGEND

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

DESCRIPTION	SYMBOLS
PROPERTY LINE	
CENTER LINE	
CONTOURS @ 2'	
CONTOURS @ 10'	000
(N) RETAINING WALL	
EXISTING TREE	
TREE TO BE REMOVED	
NEW WATER LINE	W
NEW SANITARY SEWER	SS

Main Road (Element Table)

Number	Radius	Length	Line/Chord Direction
L1		4.63	S70° 44' 42.13"E
C1	230.00	78.02	S80° 27' 47.46"E
L2		64.71	N89° 49' 07.21"E
C3	565.00	33.91	N88° 05' 57.99"E
L4		39.58	N86° 22' 48.78"E
C4	565.00	35.70	N88° 11' 24.39"E
L5		105.89	N90° 00' 00.00"E

NOTES:

1. THIS IS NOT A BOUNDARY SURVEY, ALL DIMENSIONS AND UTILITIES SHOWN ARE FROM RECORDS, AND SUPERFICIAL EVIDENCE.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. BASIS OF ELEVATION: FOUND HUB AND MAG NAIL(ELEVATION=149.84 FEET, AS SHOWN), PER BOUNDARY AND TOPOGRAPHIC SURVEY, LANDS OF DIAZ-MASIAS, DOCUMENT #2014-032989 O.R. LOTS 6-7, AND 8-9, BLOCK 25, "ROCKAWAY BEACH", VOLUME 6 OF MAPS AT PAGES 53A & 53B, ASSESSOR'S PARCEL NUMBERS: 022-056-080, 022-056-090, 022-056-060, ODDSTAD WAY, PACIFICA, SAN MATEO COUNTY, CALIFORNIA, APRIL 2014.
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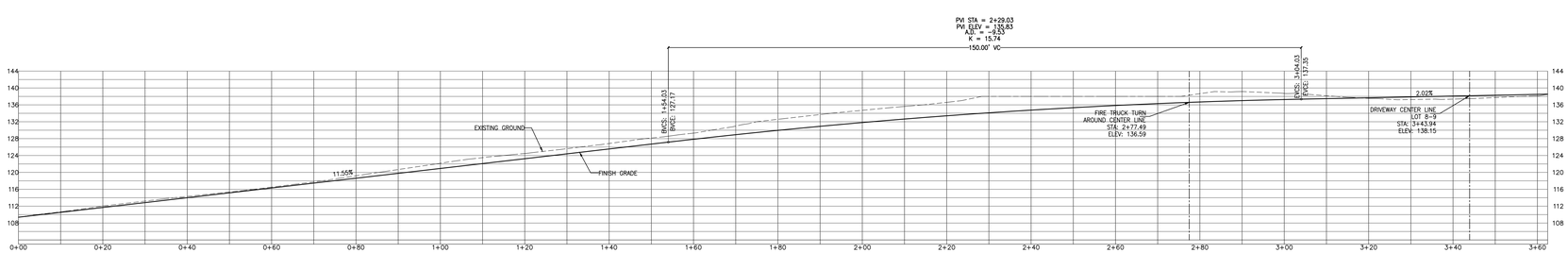
NORTH

ODDSTAD WAY ROAD EXTENSION PLAN

SCALE 1:16



NORTH

ALIGMENT (MAIN ACCESS)

SCALE 1:16

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:
ODDSTAD WAY ROAD EXTENSION PLAN

DATE	ISSUED FOR
04/15/16	PERMIT SET
07/26/16	PERMIT SET

Drawn by:
Checked by: JC

project no 140613
sheet no. C-1

EROSION CONTROL NOTES:

1) ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALED PRIOR TO THE COMMENCEMENT OF NAY OTHER ACTIVITY AND SHALL CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS OF THE ASSOCIATION OF BAY AREA GOVERNMENTS (ABAG) "A MANUAL OF STANDARDS FOR EROSION AND SEDIMENT CONTROL MEASURES" UNLESS OTHERWISE STATED WITHIN THESE GENERAL NOTES. EROSION CONTROL MEASURES ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING SERVICES.

2) BEST MANAGEMENT PRACTICES SHALL BE UTILIZED AT ALL TIMES TO COMPLY WITH THE CITY OF PACIFICA STORM WATER MANAGEMENT AND DISCHARGE CONTRAL ORDINANCE.

3) EXCEPT AS OTHERWISE DIRECTED BY THE INSPECTOR, ALL DEVICES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE AT THE END OF EACH WORK DAY AND ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AT THE END OF EACH WORKING DAY DURING THE RAINY SEASON (OCTOBER 1ST TO APRIL 15TH).

4) ALL EROSION CONTROL MEASURES WILL BE INSPECTED DAILY AND AFTER EACH STORM. BREACHES IN DIKES AND SWALES SHALL BE REPAIRED AT THE CLOSE OF EACH DAY AND WHENEVER RAIN IS FORECAST.

5) ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND DAILY THEREAFTER OR AS DIRECTED BY THE INSPECTOR. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.

6) AS A PART OF THE EROSION CONTROL MEASURES, TEMPORARY STORM DISSIPATION DRAIN FACILITIES SHALL BE INSTALLED AS SHOWN ON THIS PLAN.

7) STAND BY CREWS SHALL BE ALERTED BY THE PERMITEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAIN STORMS.

8) GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, STREETS, PARKING AREAS, AND BUILDING PADS SHALL BE HYDRO SEEDED PER ABAG. IN ADDITION TO HYDRO SEEDING, AN APPLICATION OF STRAW WITH A TACKIFIER OR MULCH MAY BE REQUIRED BY THE CITY. SUGGESTED MIX DESIGN AS FOLLOWS:

BROMUS CARINATUS	CALIFORNIA BROME	10 LBS/ACRE
DESCHAMPSIA CAESPITOSA	CALIFORNIA HAIR GRASS	4 LBS/ACRE
ELYMUS GLAUCUS	BLUE WILDRYE	8 LBS/ACRE
ELYMUS TRITICOIDES	CREEPING WILDRYE	3 LBS/ACRE
KOELERIA MACRANTHA	JUNE GRASS	4 LBS/ACRE
MELICA CALIFORNICA	WESTERN MELIC GRASS	8 LBS/ACRE
MELICA IMPERFECTA	SMALL FLOWER MELIC	4 LBS/ACRE
STIPA LEPIDA	NEEDLEGRASS	4 LBS/ACRE

TOTAL = 45 LBS/ACRE

9) ALL GRADING OPERATIONS SHALL STOP DURING PERIODS OF HEAVY RAIN AS DIRECTED BY THE INSPECTOR. OPEN TRENCHES SHALL BE PROTECTED AND DEWATERED AFTER STORMS TO PREVENT DETERIORATION OF SUB GRADE

10) ALL CUT AND FILL, SLOPES AND PADS ARE TO BE PROTECTED TO PREVENT OVER BANK FLOW USING 4-INCH EARTH BERMS ON PERIMETER AND STRAW/FIBER WATTLES ON SLOPE AS SHOWN ON THE PLAN.

11) BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.

12) ALL MATERIALS REFERENCED IN THIS PLAN SHALL BE STOCKPILED ON SITE PRIOR TO STARTING ANY GRADING OPERATIONS, EROISON CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THIS PLAN, PRIOR TO STARTING ANY GRADING AND SHALL BE MAINTAINED AND INSPECTED ON A DAILY BASIS.

13) GRAVEL BAGS REFERRED TO IN THE PRECEDING ITEMS MUST BE FULL. APPROVED SANDBAG FILL MATERIALS SHALL BE DECOMPOSED GRANITE AND/OR GRAVEL OR OTHER MATERIALS APPROVED BY THE INSPECTOR.

14) AFTER STORM DRAIN, SANITARY SEWER AND UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET. TEMPORARY PAVE ALL TRENCHES IN EXISTING STREETS.

15) GRAVEL BAGS, CATCH BASINS AND INLETS SHALL BE CLEANED OUT WHENEVER SEDIMENT REACHES 1/2 - INCH IN ELEVATION AGAINST THE BASE OF THE GRAVEL BAG. IT IS THE CONTRACTORS RESPONSIBILITY TO CLEAN AND SERVICE GRAVEL BAGS, FILTERS, AND SEDIMENT BARRIERS. REPAIR AND/OR REPLACE THEM WHEN THEY DO NOT FUNCTION PROPERLY. AFTER PAVING, ALL CATCH BASINS SHALL BE PROVIDED WITH FOSSIL FILTERS OR AS RECOMMENDED AND/OR REQUIRED BY THIS PLAN.

16) NEARBY OFF-SITE INLETS THAT MAY RECEIVE SEDIMENT-LADEN WATER SHALL BE PROTECTED.

17) REFUELING OF VEHICLES AND EQUIPMENT SHALL BE PROHIBITED WITHIN 100 FEET OF ALL DRAINAGES.

18) ALL EQUIPMENT AND VEHICLES SHALL BE CLEAN OF GREASE AND/OR HYDRAULIC LEAKS.

19) STENCIL ALL CATCH BASINS AND INLETS WITH A "NO DUMPING, DRAINS TO BAY/OCEAN", THERMOPLASTIC FISH LOGO.

20) IN THE ABSENCE OF RAIN, WATER ALL ACTIVE CONSTRUCTION SITES AT LEAST TWICE DAILY TO CONTROL DUST.

21) COVER ALL TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST 0.6 METERS (2 FEET) OF FREEBOARD.

22) PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.

23) SWEEP DAILY WITH WATER SWEEPERS ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITE.

24) SWEEP STREES DAILY WITH WATER SWEEPERS IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS.

25) HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE.

26) ENCLOSE, COVER, WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO EXPOSE STOCKPILES (DIRT, SAND, ETC.)

27) LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH.

28) INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

29) REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.

30) SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS EXCEED 40 KILOMETERS PER HOUR (25 MILES PER HOUR)

31) SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT JC ENGINEERING FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

GRAPHIC SCALE

20 0 10 20 40 80

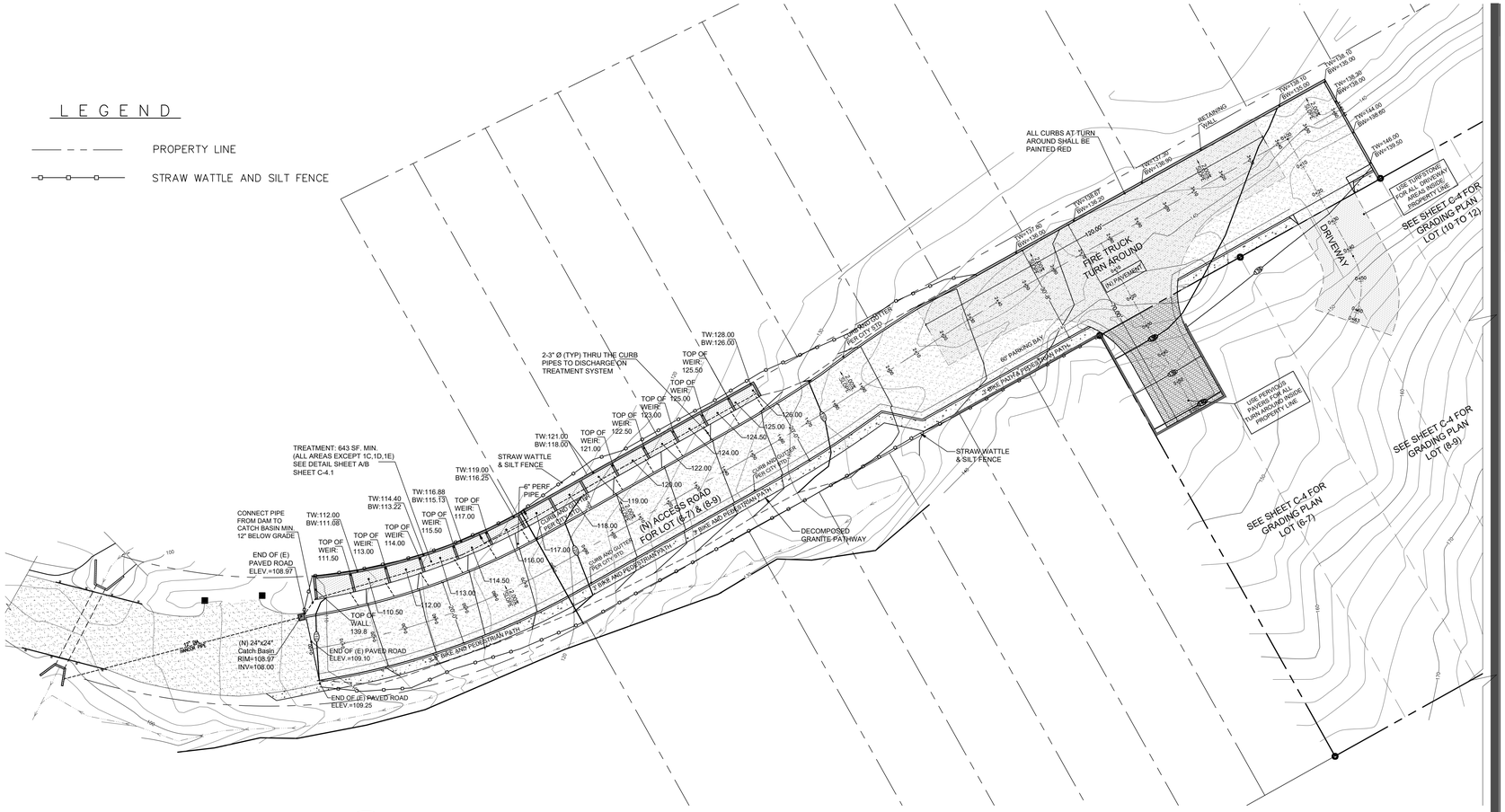
(IN FEET)

1 inch = 20 ft.

LEGEND

PROPERTY LINE

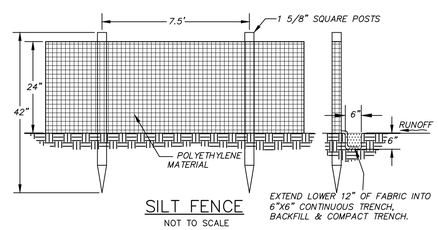
STRAW WATTLE AND SILT FENCE



NORTH

ROAD GRADING, EROSION CONTROL & SWPPP

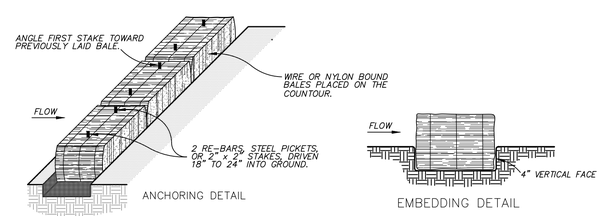
SCALE 1:20



SILT FENCE

NOT TO SCALE

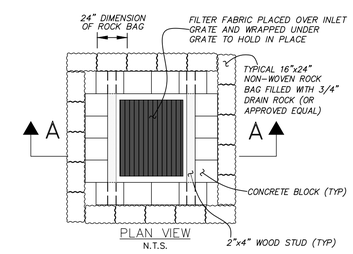
(FOR REFERENCE ONLY - TO BE USED ONLY IF NECESSARY)



TYPICAL STRAW BALE DIKE DETAIL

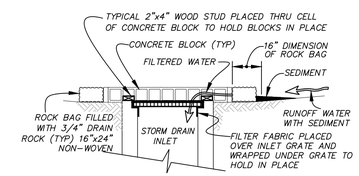
NOT TO SCALE

(FOR REFERENCE ONLY - TO BE USED ONLY IF REQUIRED)



PLAN VIEW

N.T.S.



SECTION A-A

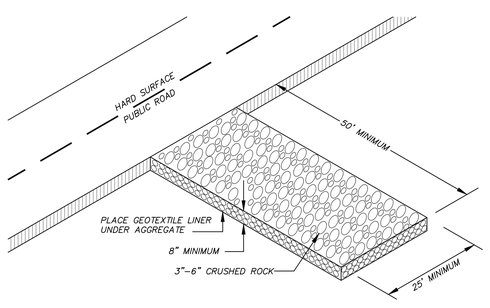
N.T.S.

NOTES:

1. FLOWLINE OF CONCRETE BLOCK TO MATCH TOP OF CONCRETE INLET.
2. SEDIMENT TO BE REMOVED WHEN IT REACHES 1/2" IN ELEVATION AGAINST THE BASE OF THE ROCK BAG. (SEE NOTE 29 ON SHEET 1)

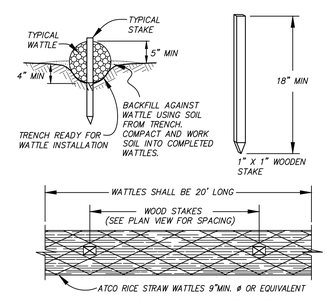
STORM DRAIN INLET PROTECTION

N.T.S.



STABILIZED GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE



TYPICAL WATTLE DETAIL

NOT TO SCALE

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

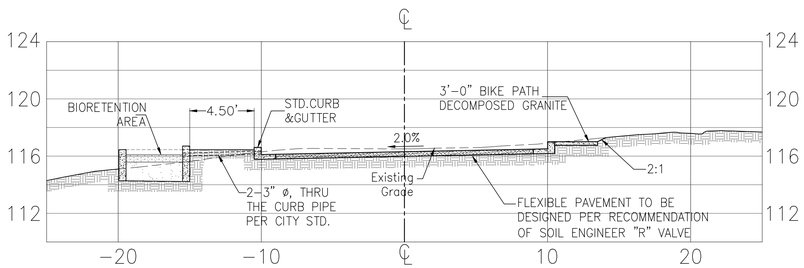
Sheet:

- ROAD GRADING PLAN
- WINTERIZATION & EROSION CONTROL

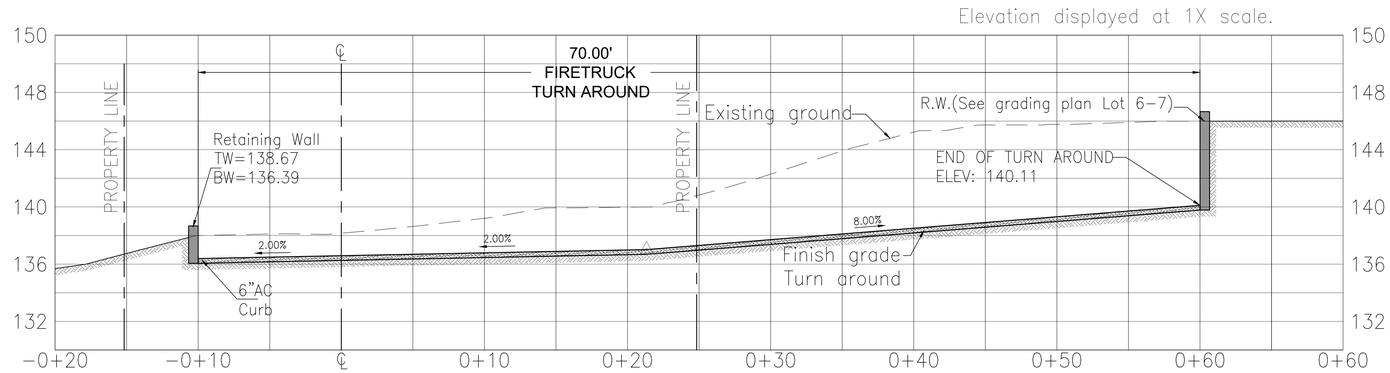
DATE	ISSUED FOR
04/08/16	PERMIT SET
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

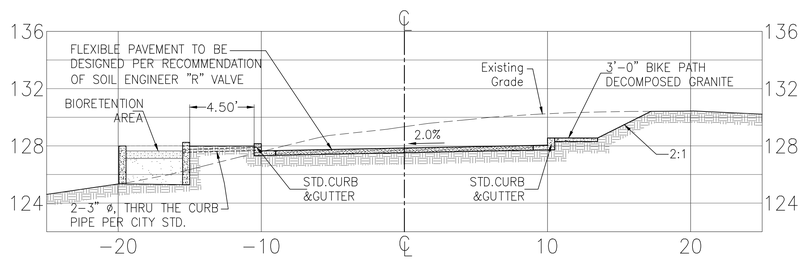
project no	sheet no.
140613	C-2



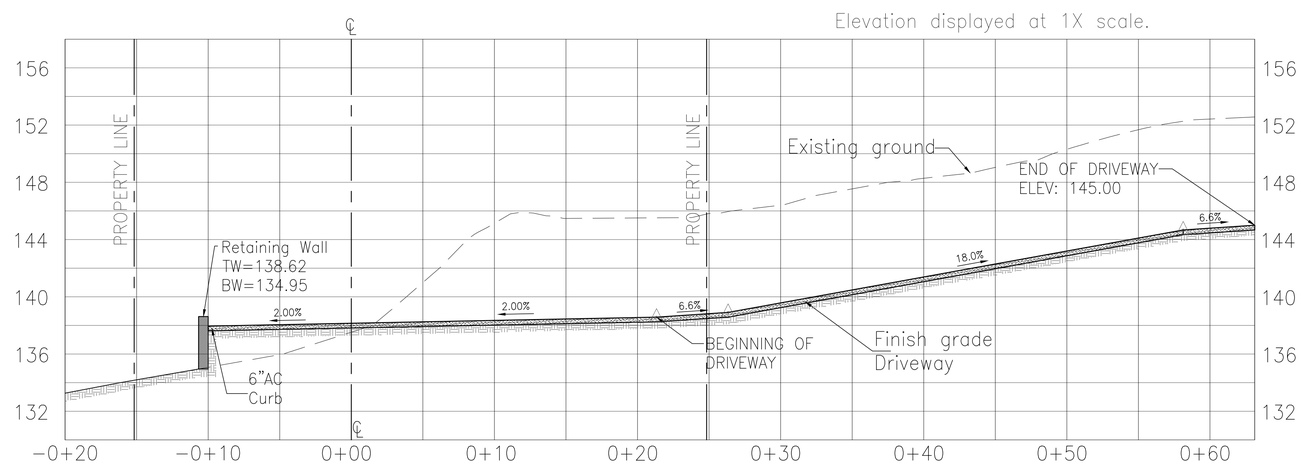
SECTION 0+60 (MAIN ACCESS)
SCALE: 1:5



SECTION 2+77.49 (ALIGNMENT FIRE TRUCK TURN AROUND)
SCALE= 1:5



SECTION 1+60 (MAIN ACCESS)
SCALE: 1:5



SECTION 3+43.94 (ALIGNMENT ACCESS DRIVEWAY)
SCALE= 1:5

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

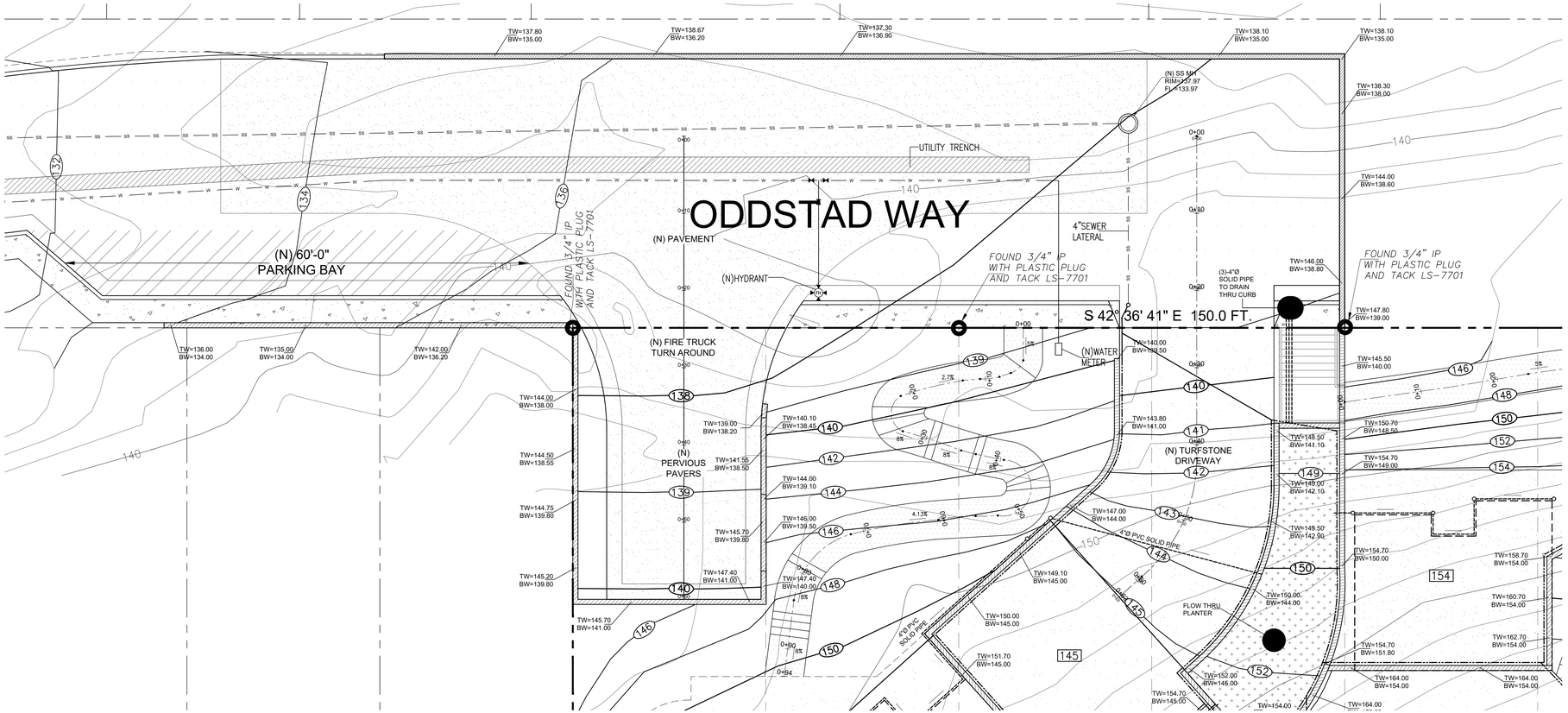
Sheet:

- ROAD SECTIONS

DATE	ISSUED FOR
04/15/16	PERMIT SET
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

project no	sheet no.
140613	C-3



NORTH

ROAD GRADING PLAN FOR ACCESS TO LOT (6 to 12)

SCALE 1:8

ABBREVIATIONS

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

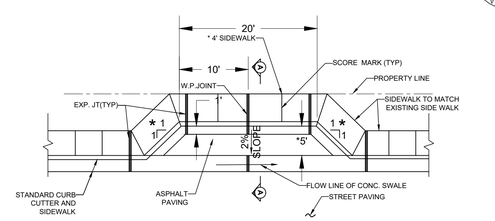
FLAG POLE	FP
WATER METER	WM
GAS VALVE	GV
CONC. COLUMN	CC
VARIOUS	V
EUCALYPTUS	EUC
SANITARY SEWER MANHOLE	SSMH
FEET	FT.
IRON PIPE	IP
FLOW LINE	FL

SITE/GRADING PLAN LEGEND

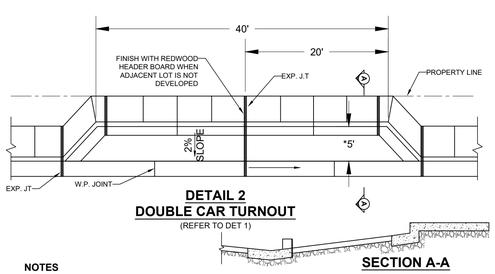
(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

DESCRIPTION	SYMBOLS
PROPERTY LINE	
CENTER LINE	
CONTOURS @ 2'	
CONTOURS @ 10'	000
(N) RETAINING WALL	
EXISTING TREE	
TREE TO BE REMOVED	
NEW WATER LINE	— w — w —
NEW SANITARY SEWER	— ss — ss —

FOR COMPLETE GRADING PLAN SEE SHEET A-1.1



DETAIL 1
SINGLE CAR TURNOUT



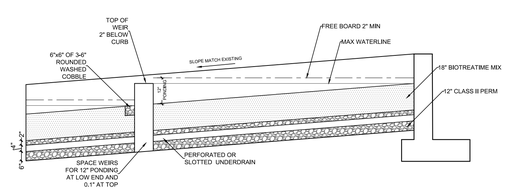
DETAIL 2
DOUBLE CAR TURNOUT
(REFER TO DET 1)

SECTION A-A

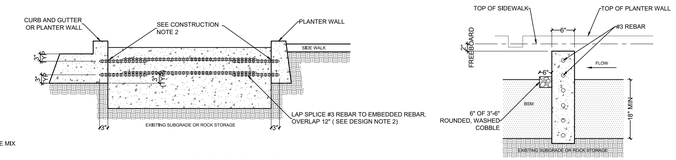
NOTES

1. *-OR DIMENSION APPROVED BY CITY ENGINEER
2. FOR SIDEWALK CONSTRUCTION SEE STANDARD NO.100 & 101 A
3. FOR JOINT LOCATION SEE STANDARD NO.110

CITY OF PACIFICA C.D.& S ENGINEERING DIVISION	STANDARD PARKING TURN OUT STALLS	REV	DATE	BY:	SEPT 1986 DWG. NO 111
		1	4-5-88	ANA	
			6-3-87	SVB	



A BIORETENTION (SECTION A-A)
N.T.S.



BIORETENTION DESIGN NOTES

1.FOR USE WITH BIORETENTION PLANTERS OR SLOPED SIDED SWALES/RAIN GARDENS.

2.FOR CHECK DAMS LONGER THAN 12' SPECIFY REBAR OVERLAP LENGTH.

3.SPACE CHECK DAMS TO MAXIMIZE PONDING ACROOS CELLS

4.PROVIDE ELEVATIONS AND STATIONING AND/OR DIMENSIONING FOR CHECK DAMS

5.ENSURE THAT CHECK DAM ELEVATIONS DO NOT CAUSE STORM WATER TO OVERFLOW TO SIDEWALK

6.SHOW PLANTER WALL EMBEDDED IN EXISTING SUBGRADE OR DRAINROCK

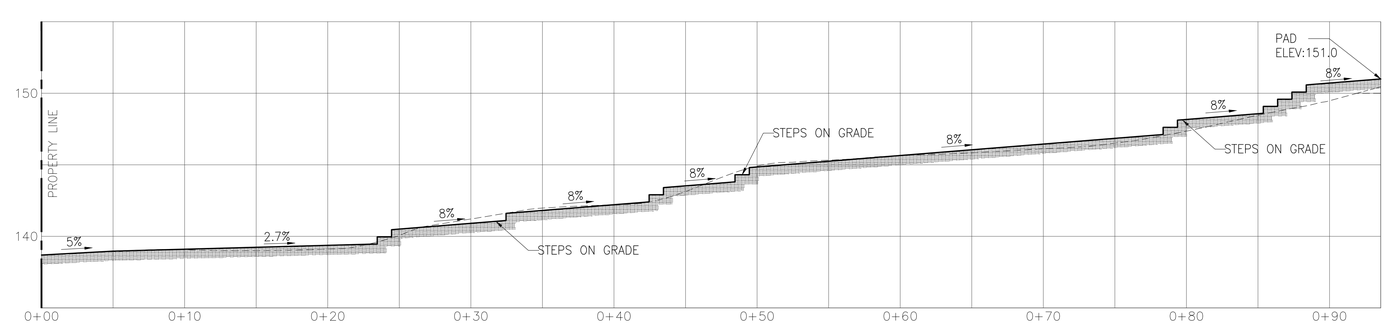
CONSTRUCTION NOTES

1.EMBED # 3 REBAR 3" INTO CURB AND PLANTER WALL

2.DO NOT WORK DURING RAIN OR UNDER WET CONDITIONS

3.KEEP ALL HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMTS

B CONCRETE CHECK DAM
N.T.S.



ACCESS WALKWAY
SCALE= 1:5

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

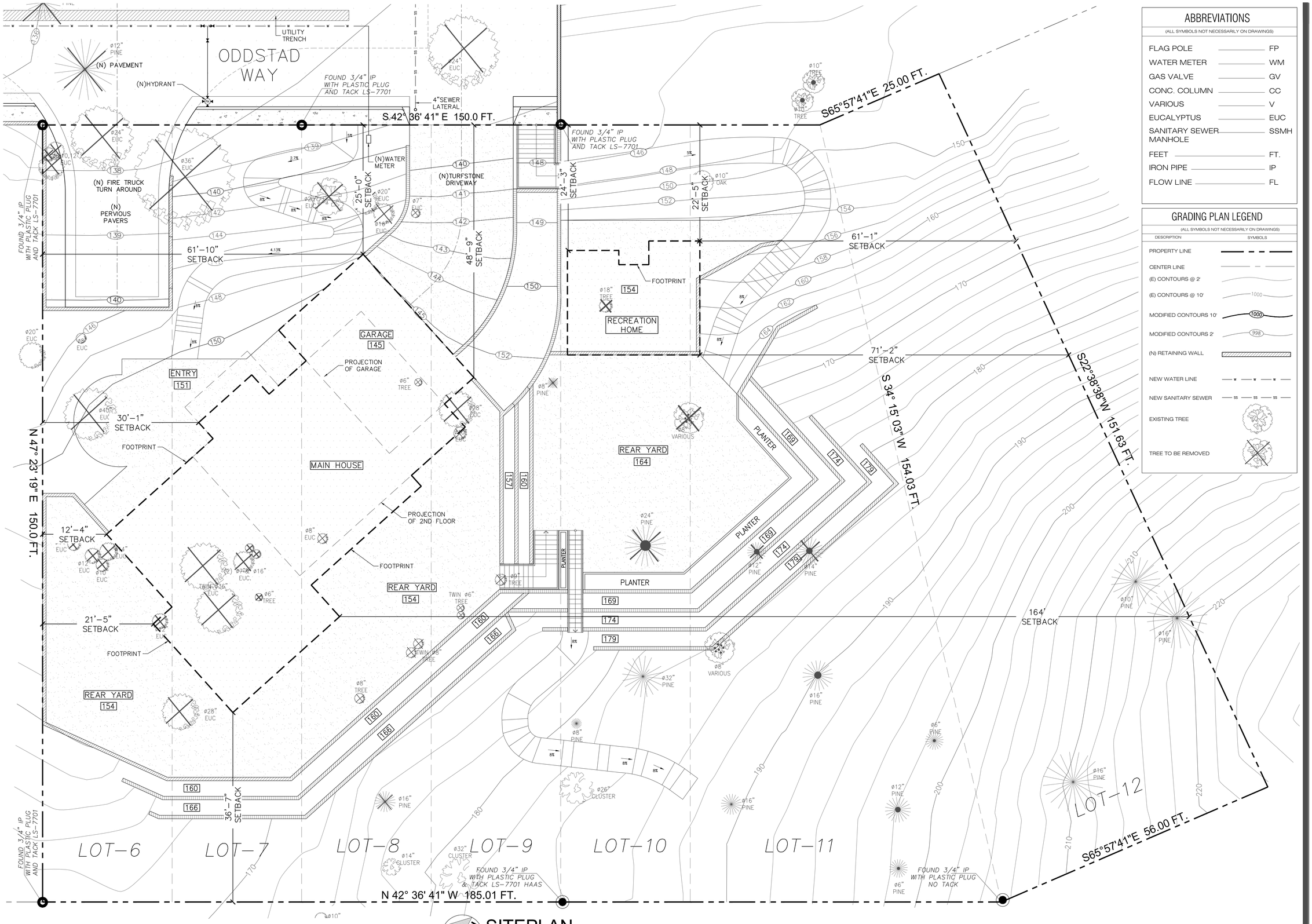
Sheet:

- GRADING PLAN LOT 6-7
- GRADING PLAN LOT 8-9

DATE	ISSUED FOR
04/15/16	PERMIT SET
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

project no 140613 | sheet no. C-4



SITEPLAN

SCALE 1/8"= 1'-0"

ABBREVIATIONS

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

FLAG POLE	FP
WATER METER	WM
GAS VALVE	GV
CONC. COLUMN	CC
VARIOUS	V
EUCALYPTUS	EUC
SANITARY SEWER MANHOLE	SSMH
FEET	FT.
IRON PIPE	IP
FLOW LINE	FL

GRADING PLAN LEGEND

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

DESCRIPTION	SYMBOLS
PROPERTY LINE	
CENTER LINE	
(E) CONTOURS @ 2'	
(E) CONTOURS @ 10'	1000
MODIFIED CONTOURS 10'	1000
MODIFIED CONTOURS 2'	998
(N) RETAINING WALL	
NEW WATER LINE	W
NEW SANITARY SEWER	SS
EXISTING TREE	
TREE TO BE REMOVED	

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

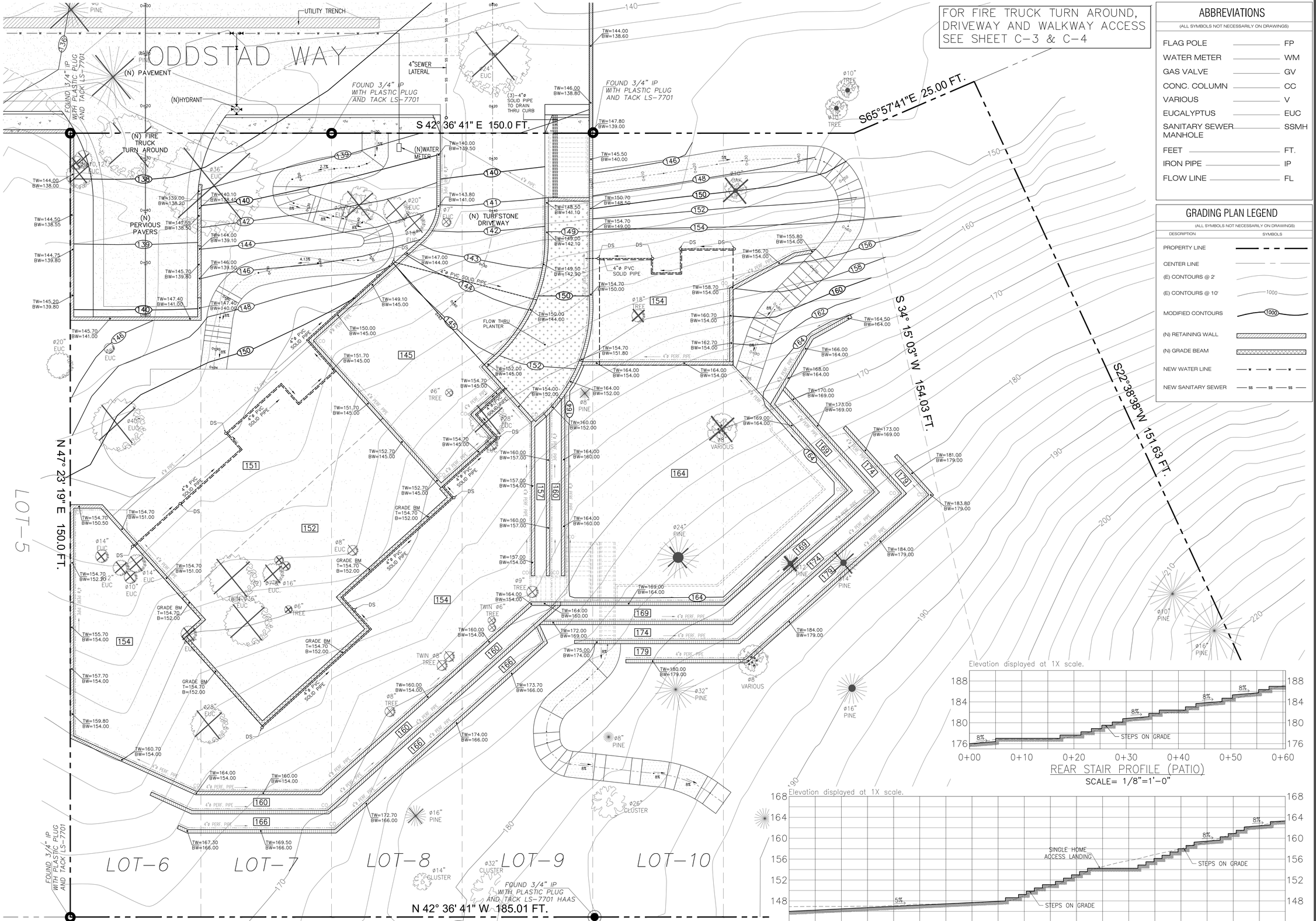
- SITE PLAN

DATE	ISSUED FOR
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

project no 2016

sheet no. A-1.0



FOR FIRE TRUCK TURN AROUND, DRIVEWAY AND WALKWAY ACCESS SEE SHEET C-3 & C-4

GRADING PLAN

SCALE 1/8"= 1'-0"

REAR STAIR PROFILE (PATIO)

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

FRONT PATH PROFILE (RECREATION HOME)

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

ABBREVIATIONS

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

FLAG POLE	FP
WATER METER	WM
GAS VALVE	GV
CONC. COLUMN	CC
VARIOUS	V
EUCALYPTUS	EUC
SANITARY SEWER MANHOLE	SSMH
FEET	FT.
IRON PIPE	IP
FLOW LINE	FL

GRADING PLAN LEGEND

(ALL SYMBOLS NOT NECESSARILY ON DRAWINGS)

DESCRIPTION	SYMBOLS
PROPERTY LINE	
CENTER LINE	
(E) CONTOURS @ 2'	
(E) CONTOURS @ 10'	1000
MODIFIED CONTOURS	1000
(N) RETAINING WALL	
(N) GRADE BEAM	
NEW WATER LINE	W
NEW SANITARY SEWER	SS

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

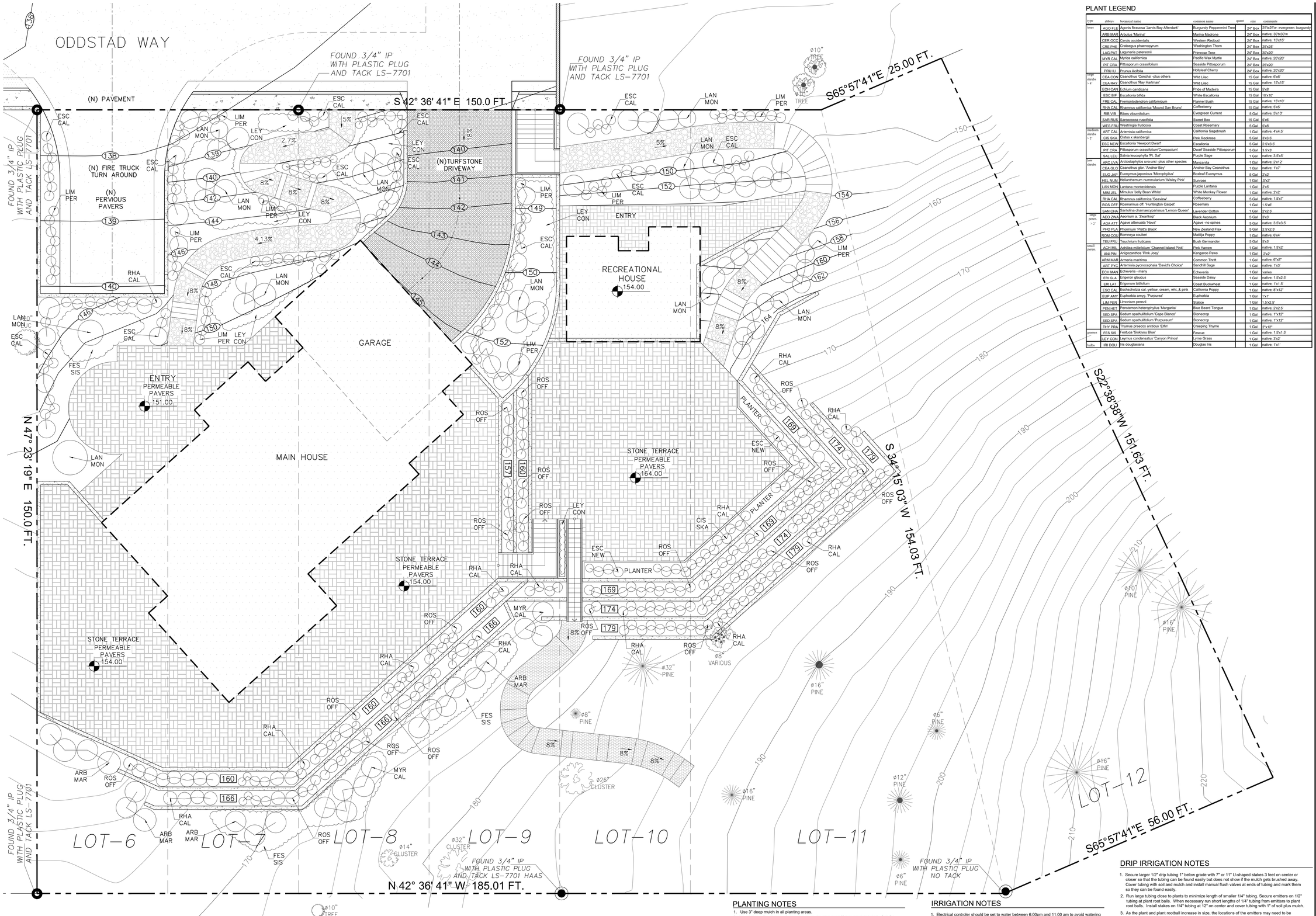
- GRADING PLAN

DATE	ISSUED FOR
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

project no 2016

sheet no. A-1.1



LANDSCAPE PLAN

SCALE 1/8"= 1'-0"

PLANT LEGEND

type	abbrev	botanical name	common name	quant	size	comments
trees	AGO FLE	Agonis flexuosa 'Jarvis Bay Afterdark'	Burgundy, Peppermint Tree		24" Box	25'x25'w; evergreen; burgundy
	ARB MAR	Arbutus 'Marina'	Marina Madrone		24" Box	native; 30'h:30'w
	CER OCC	Cercis occidentalis	Western Redbud		24" Box	native; 15'x15'
	CRE PHE	Crataegus phaenopyrum	Washington Thorn		24" Box	20'x20'
	LAG PAT	Lagunaria patersonii	Primrose Tree		24" Box	30'x20'
	MYR CAL	Myrica californica	Pacific Wax Myrtle		24" Box	native; 20'x20'
	PIT CRA	Pittosporum crassifolium	Seaside Pittosporum		24" Box	25'x20'
	PRU ILI	Prunus ilicifolia	Hollyleaf Cherry		24" Box	native; 20'x20'
large shrubs > 4'	CEA CON	Ceanothus 'Concha' -plus others	Wild Lilac		15 Gal	native; 6'x6'
	CEA RAY	Ceanothus 'Ray Hartman'	Wild Lilac		15 Gal	native; 15'x15'
	ECH CAN	Echium candicans	Pride of Madeira		15 Gal	5'x8'
	ESC RIF	Escallonia bifida	White Escallonia		15 Gal	10'x10'
	FRE CAL	Fremontodendron californicum	Flannel Bush		15 Gal	native; 15'x10'
	RHA CAL	Rhamnus californica 'Mound San Bruno'	Coffeeberry		15 Gal	native; 5'x5'
	RIB VIB	Ribes viburnifolium	Evergreen Current		5 Gal	native; 5'x10'
	SAR RUS	Sarcococca ruscifolia	Sweet Box		15 Gal	5'x6'
	WES FRU	Westringia fruticosa	Coast Rosemary		5 Gal	5'x8'
medium shrubs > 2'	ART CAL	Artemisia californica	California Sagebrush		1 Gal	native; 4'x4.5'
	CIS SKA	Cistus x skanbergii	Pink Rockrose		5 Gal	3'x3.5'
	ESC NEW	Escallonia 'Newport Dwarf'	Escallonia		5 Gal	2.5'x3.5'
	PIT CRA	Pittosporum crassifolium'Compactum'	Dwarf Seaside Pittosporum		5 Gal	3.5'x3'
	SAL LEU	Salvia leucophylla 'Pt. Sal'	Purple Sage		1 Gal	native; 3.5'x5'
low shrubs	ARC UVA	Arctostaphylos uva-ursi -plus other species	Manzanita		1 Gal	native; 2'x12'
	CEA GLO	Ceanothus glor. 'Anchor Bay'	Anchor Bay Ceanothus		1 Gal	native; 1'x7'
	EUO JAP	Euonymus japonicus 'Microphyllus'	Boxleaf Euonymus		5 Gal	2'x2'
	HEL NUM	Helianthemum nummularium 'Wisley Pink'	Sunrose		1 Gal	5'x3'
	LAN MON	Lantana montevidensis	Purple Lantana		1 Gal	2'x5'
	MIM JEL	Mimulus 'Jelly Bean White'	White Monkey Flower		1 Gal	native; 2'x2'
	RHA CAL	Rhamnus californica 'Seaview'	Coffeeberry		5 Gal	native; 1.5'x7'
	ROS OFF	Rosmarinus off. 'Huntington Carpet'	Rosemary		1 Gal	1.5'x6'
	SAN CHA	Santolina chamaecyparissus 'Lemon Queen'	Lavender Cotton		1 Gal	2'x2.5'
large perennials > 2'	AEO OVA	Aeonium a. 'Zwartkop'	Black Aeonium		5 Gal	3'x3'
	AGA ATT	Agave attenuata 'Nova'	Agave -no spines		5 Gal	native; 3.5'x3.5'
	PHO PLA	Phormium 'Platt's Black'	New Zealand Flax		5 Gal	2.5'x2.5'
	ROM COU	Romneya coulteri	Matilija Poppy		1 Gal	native; 6'x4'
	TEU FRU	Teucrium fruticans	Bush Germander		5 Gal	5'x5'
small perennials	ACH MIL	Achillea millefolium 'Channel Island Pink'	Pink Yarrow		1 Gal	native; 1.5'x2'
	ANI PIN	Anigozanthos 'Pink Joey'	Kangaroo Paws		1 Gal	2'x2'
	ARM MAR	Armeria maritima	Common Thrift		1 Gal	native; 6"x8"
	ART PYC	Artemisia pycnocephala 'David's Choice'	Sandhill Sage		1 Gal	native; 1'x3'
	ECH MAN	Echeveria - many	Echeveria		1 Gal	varies
	ERI GLA	Erigeron glaucus	Seaside Daisy		1 Gal	native; 1.5'x2.5'
	ERI LAT	Eriogonum latifolium	Coast Buckwheat		1 Gal	native; 1'x1.5'
	ESC CAL	Eschscholzia cal.-yellow, cream, wht.,& pink	California Poppy		1 Gal	native; 8"x12"
	EUP AMY	Euphorbia amyg. 'Purpurea'	Euphorbia		1 Gal	1'x1'
	LIM PER	Limonium perezii	Statice		1 Gal	1.5'x2.5'
	PEN HET	Penstemon heterophyllus 'Margarita'	Blue Beard Tongue		1 Gal	native; 2'x2.5'
	SED SPA	Sedum spathulifolium 'Cape Blanco'	Stonecrop		1 Gal	native; 1"x12"
	SED SPA	Sedum spathulifolium 'Purpureum'	Stonecrop		1 Gal	native; 1"x12"
	THY PRA	Thymus praecox arcticus 'Elfin'	Creeping Thyme		1 Gal	2"x12"
grasses	FES SIS	Festuca 'Siskiyou Blue'	Fescue		1 Gal	native; 1.5'x1.5'
	LEY CON	Leymus condensatus 'Canyon Prince'	Lyme Grass		1 Gal	native; 2'x2'
bulbs	IRI DOU	Iris douglasiana	Douglas Iris		1 Gal	native; 1'x1'

PLANTING NOTES

1. Use 3" deep mulch in all planting areas.
2. Install plants for all plant circles shown on the plan even if they aren't labeled. Call for clarification if needed.
3. The plan is schematic . Don't install plants too close to edges of paving or buildings. Be sure plants are not blocking sprinkler spray excessively . Keep valves away from trees.
4. Based on the Soil & Plant Laboratory , Inc. analysis completed on August 11, 2011 evenly distribute per 1000sf yards of nitrogen stabilized organic amendment , 5 pounds of 21-2 -7 native fertilizer, and 45 pounds of calcium carbonate carbonate lime. Till in the top 6" to 8" of soil after ripping soil to 12" depth.
5. All landscaping is to be permanently maintained by the property owner.

IRRIGATION NOTES

1. Electrical controler should be set to water between 6:00pm and 11:00 am to avoid watering during times of higher wind or temperature and programmed with repeat cycles to avoid runoff. This is not as important for drip that is not affected by the wind. Set irrigation schedule according to plants' water needs.
2. Run 2 extra control wires from the controller to the far end of each leg and to the furthest hose bib, coming up at each valve with some extra wire along the way so valves could be added if necessary in the future.
3. Do not put valves too close to trees. Stay 8' to 10' away if possible. Do not put pressure lines under trees. Install lines in planting areas instead of under paving whenever possible.

DRIP IRRIGATION NOTES

1. Secure larger 1/2" drip tubing 1" below grade with 7" or 11" U-shaped stakes 3 feet on center or closer so that the tubing can be found easily but does not show if the mulch gets brushed away. Cover tubing with soil and mulch and install manual flush valves at ends of tubing and mark them so they can be found easily.
2. Run large tubing close to plants to minimize length of smaller 1/4" tubing. Secure emitters on 1/2" tubing at plant root balls. When necessary run short lengths of 1/4" tubing from emitters to plant root balls. Install stakes on 1/4" tubing at 12" on center and cover tubing with 1" of soil plus mulch.
3. As the plant and plant rootball increase in size, the locations of the emitters may need to be adjusted so they are evenly spaced over the rootball.

EMITTER SCHEDULE

Two 1 GPH emitters at small shrubs (eventual size)

Three 1 GPH emitters at medium shrubs

Six 1 GPH emitters at large shrubs

Eight 1 GPH emitters at large tree rootballs With shrubs that have multiple emitters, place some over rootball (not right on stem) and some out under future canopy. Space emitters evenly in root zone area.

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

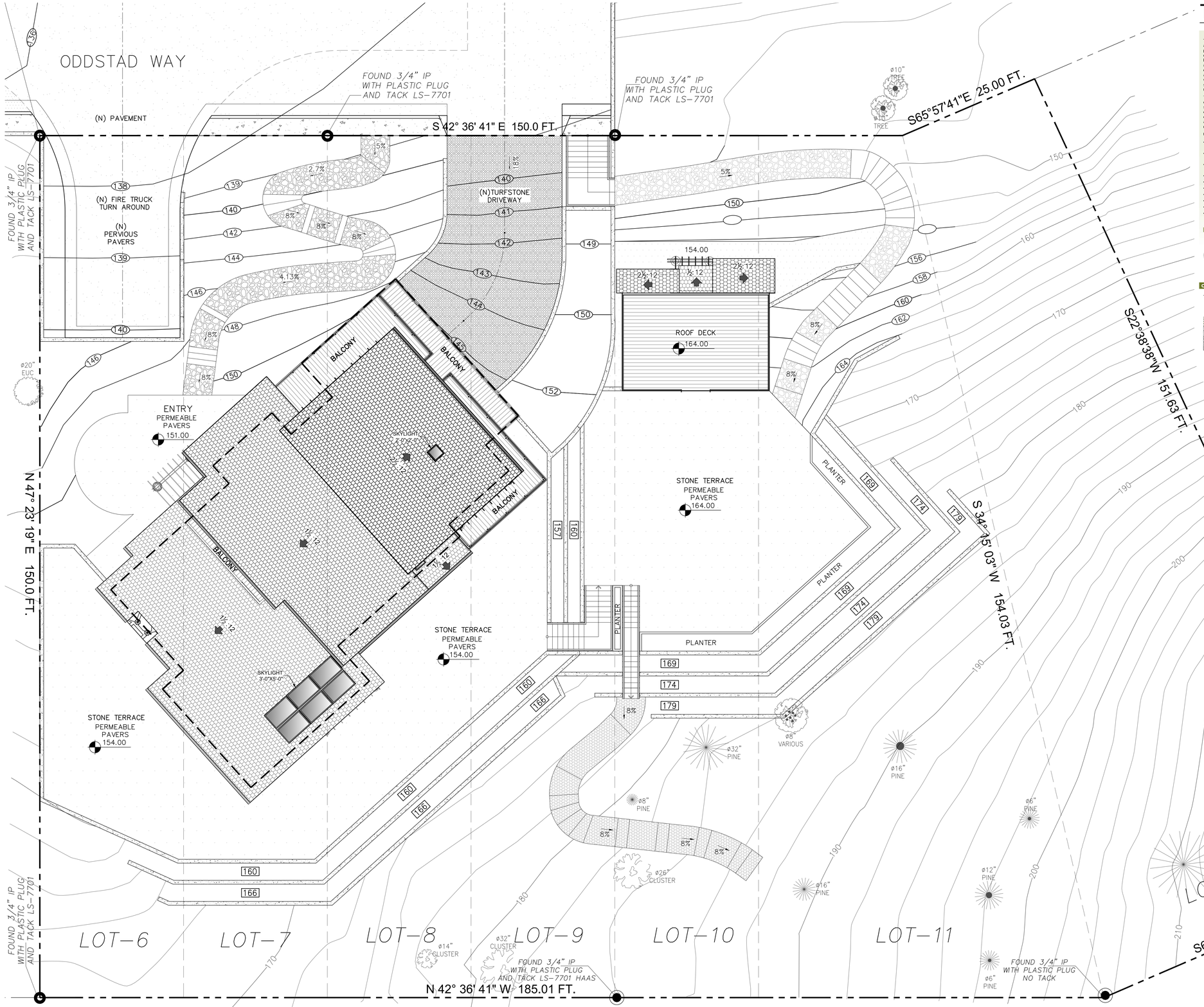
- LANDSCAPE PLAN

DATE	ISSUED FOR
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

project no 2016

sheet no. A-1.2



ROOF PLAN

SCALE 1/8"= 1'-0"

Turfstone Driveway Pavers

Recycled Concrete Terrace and Walk Pavers

100% RECYCLED, REDESIGNED and HANDCRAFTED PRODUCTS

Our products are 100% handcrafted in California using recycled industrial concrete. We are a sustainable manufacturer,
that utilizes recycled materials made from locally sourced raw materials to minimize transportation impacts on the environment. Our primary goal is to reuse and reduce society's waste stream, as well as our own, while closing the material
waste loop without compromising the quality or durability of our product.

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

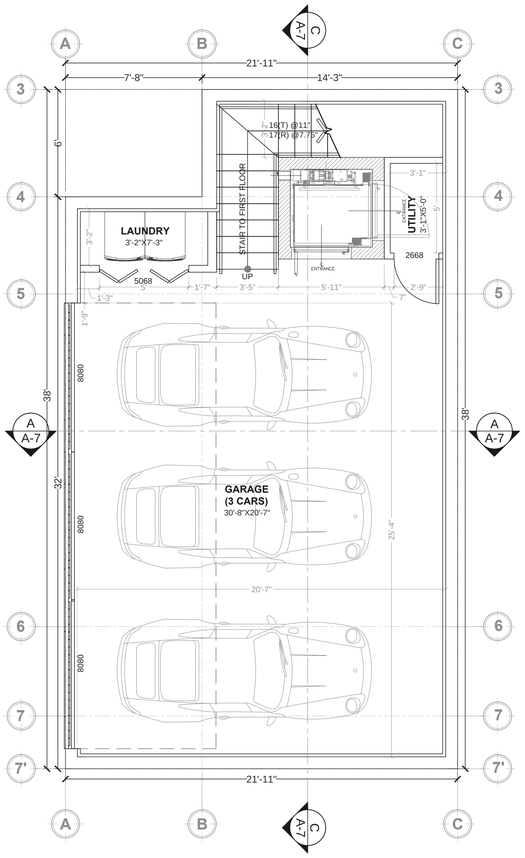
- ROOF PLAN

DATE	ISSUED FOR
08/02/16	PERMIT SET

Drawn by:
Checked by: JC

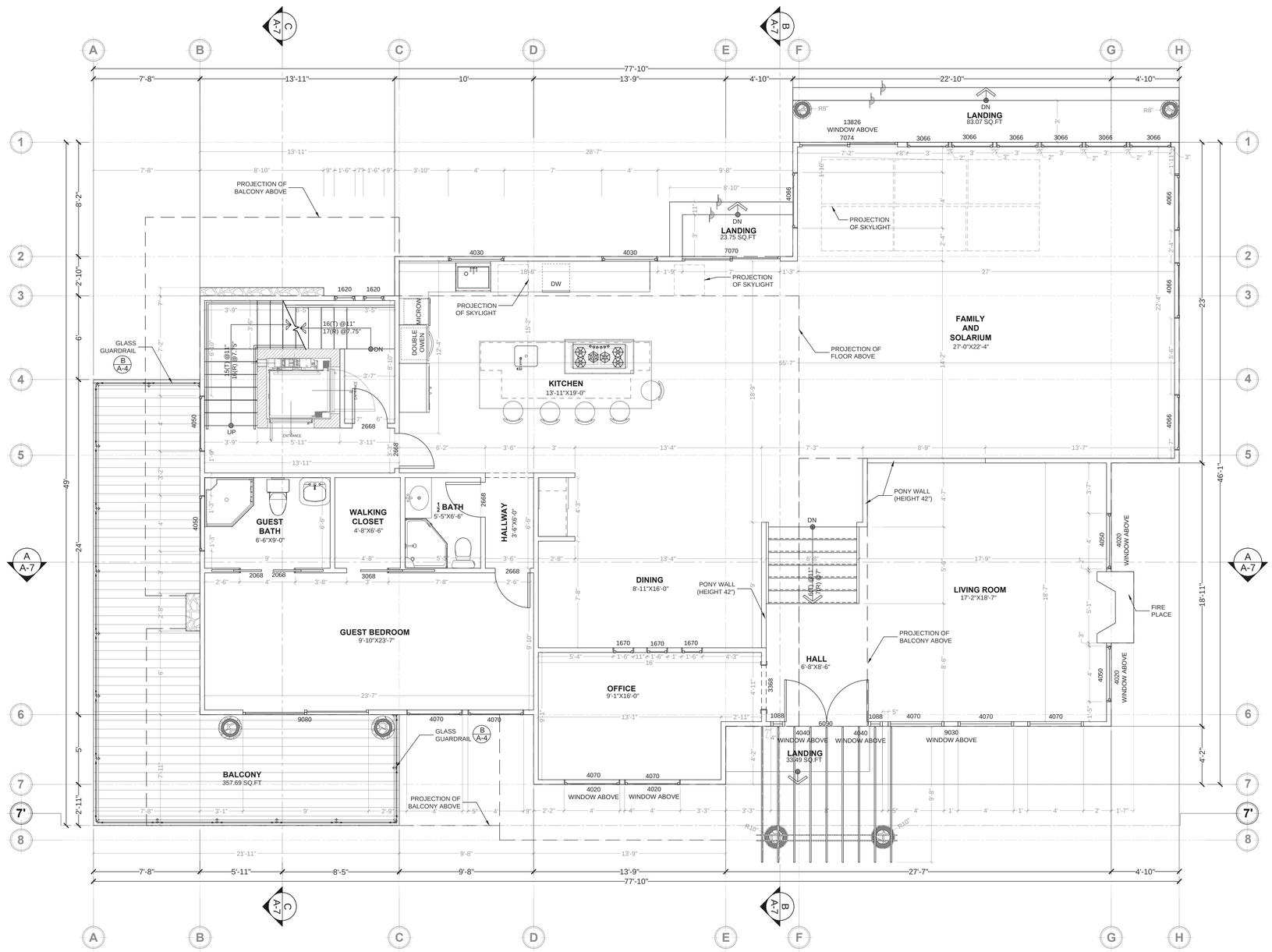
project no 2016

sheet no. A-1.3



GARAGE FLOOR PLAN

SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

J C ENGINEERING

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

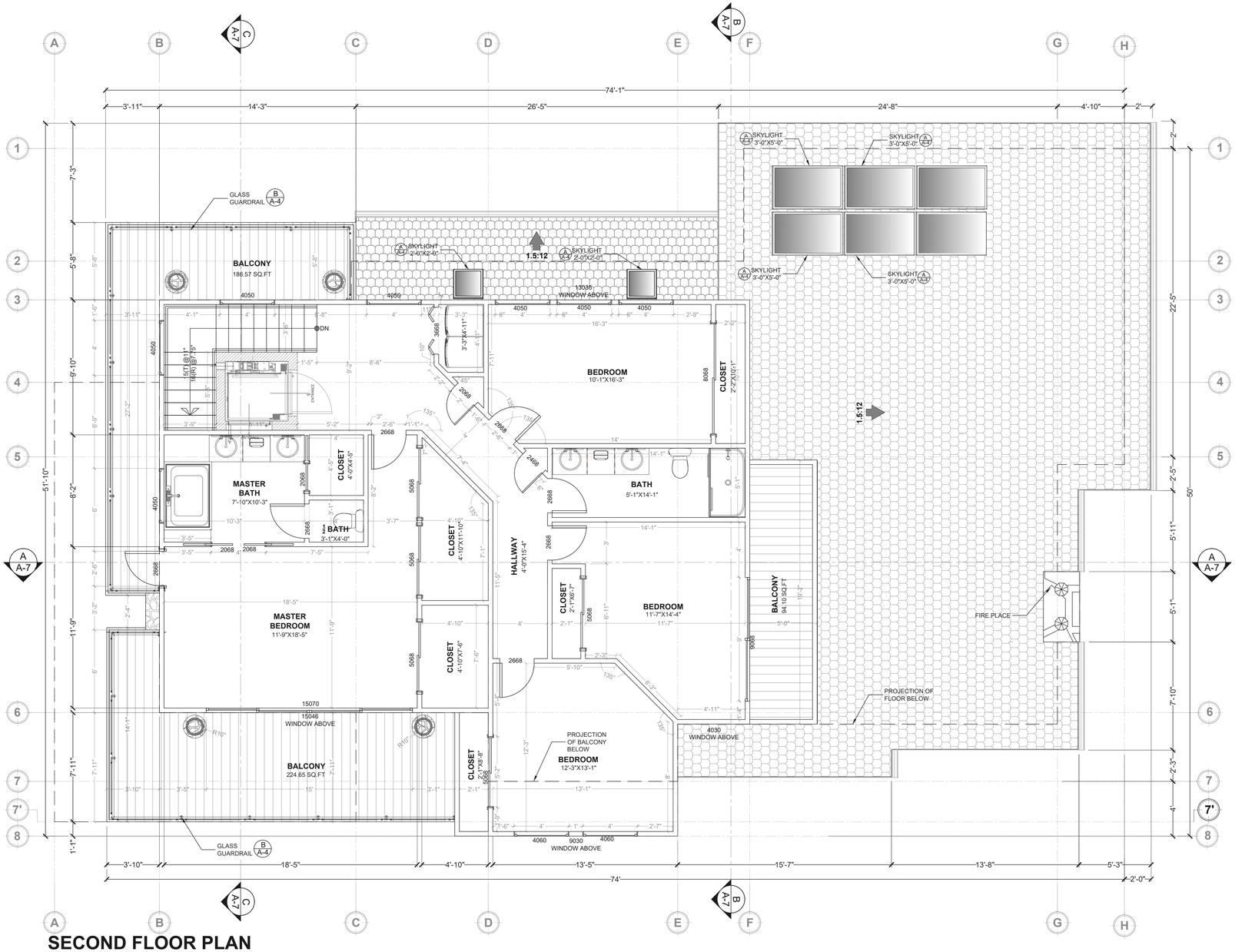
- GARAGE AND FIRST FLOOR PLAN

DATE	ISSUED FOR
07/29/16	PLANING SET

Drawn by:
Checked by: JC

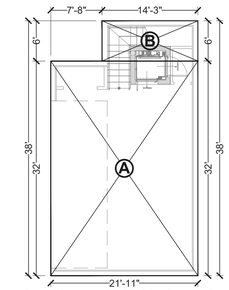
project no 2016

sheet no. A-2



SECOND FLOOR PLAN

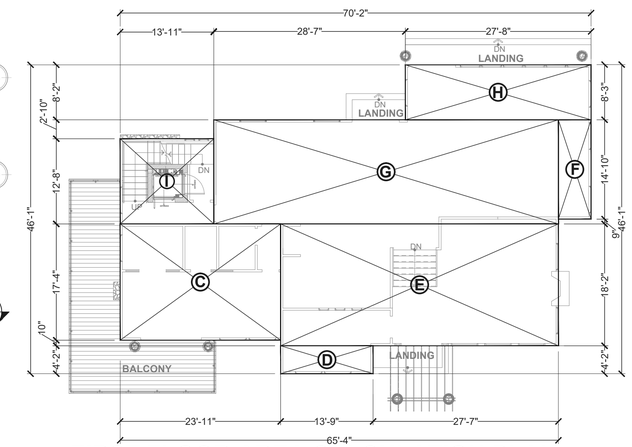
SCALE 1/4" = 1'-0"



GARAGE AREA CALCULATION		
	701.03 SQ.FT →	A
	85.73 SQ.FT →	B
TOTAL GARAGE AREA →	786.76 SQ.FT	

GARAGE FLOOR AREA CALCULATION PLAN

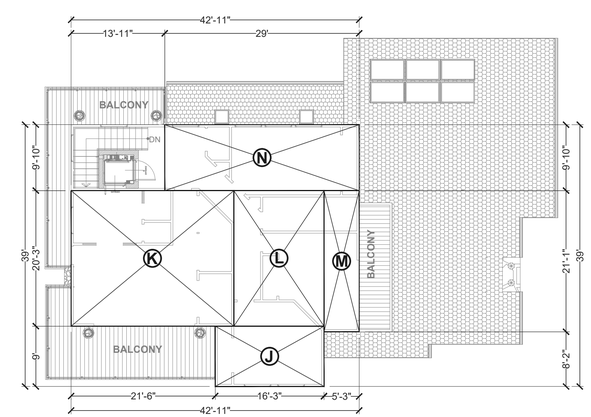
SCALE 3/32" = 1'-0"



FIRST FLOOR AREA CALCULATION PLAN

SCALE 3/32" = 1'-0"

FIRST FLOOR AREA CALCULATION		
	414.51 SQ.FT →	C
	57.41 SQ.FT →	D
	752.10 SQ.FT →	E
	72.14 SQ.FT →	F
	797.09 SQ.FT →	G
	226.91 SQ.FT →	H
	177.21 SQ.FT →	I (STAIR AND ELEVATOR)
TOTAL LIVING AREA →	2,497.37 SQ.FT	
TOTAL BALCONY AREA →	357.69 SQ.FT	
TOTAL LANDING AREA →	140.31 SQ.FT	



SECOND FLOOR AREA CALCULATION PLAN

SCALE 1/8" = 1'-0"

SECOND FLOOR AREA CALCULATION		
	145.75 SQ.FT →	J
	490.07 SQ.FT →	K
	271.72 SQ.FT →	L
	110.37 SQ.FT →	M
	284.64 SQ.FT →	N
TOTAL LIVING AREA →	1,302.55 SQ.FT	
TOTAL BALCONY AREA →	505.32 SQ.FT	

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

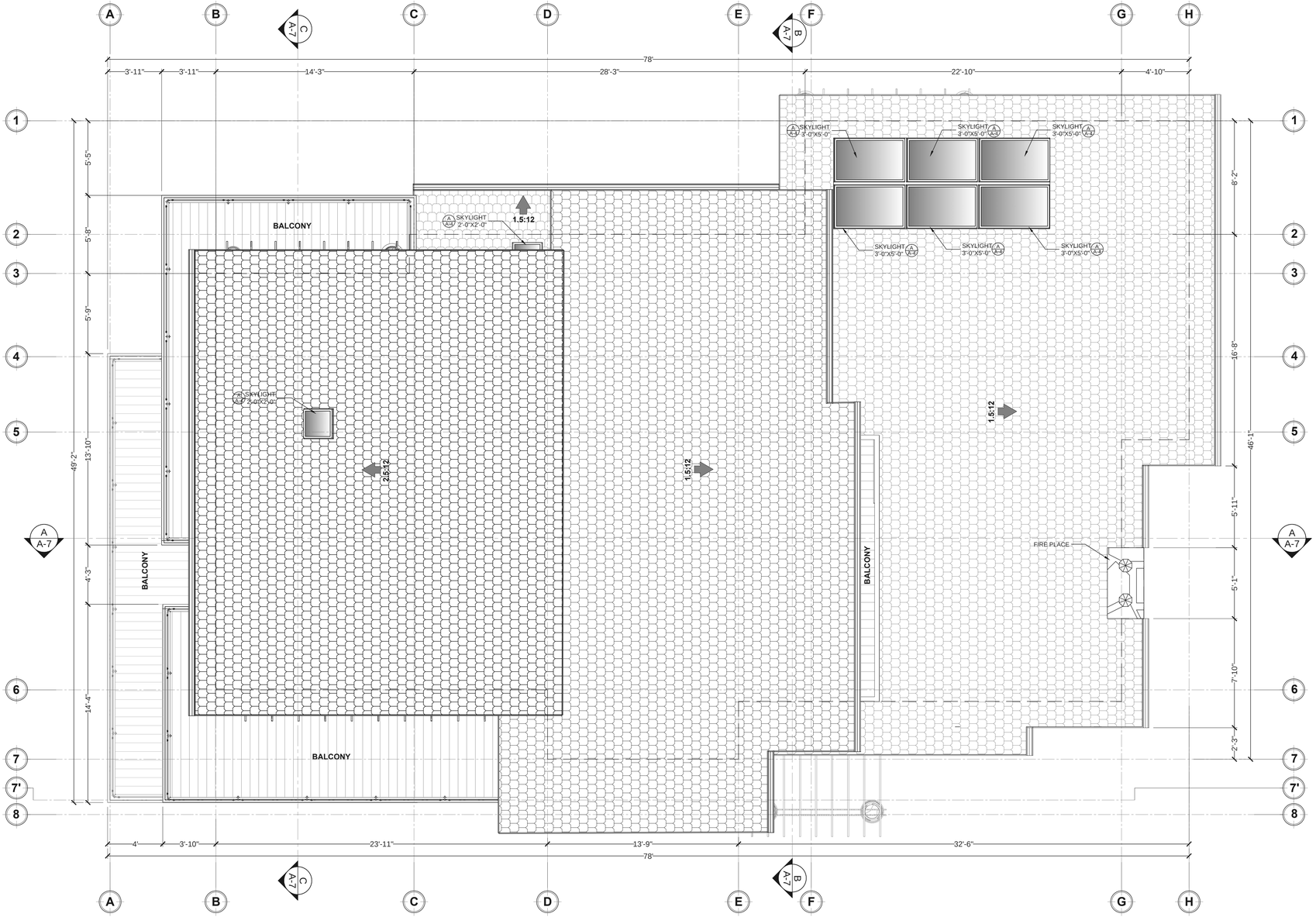
- SECOND FLOOR PLAN
- FLOOR AREA CALCULATION

DATE	ISSUED FOR
07/29/16	PLANING SET

Drawn by:
Checked by: JC

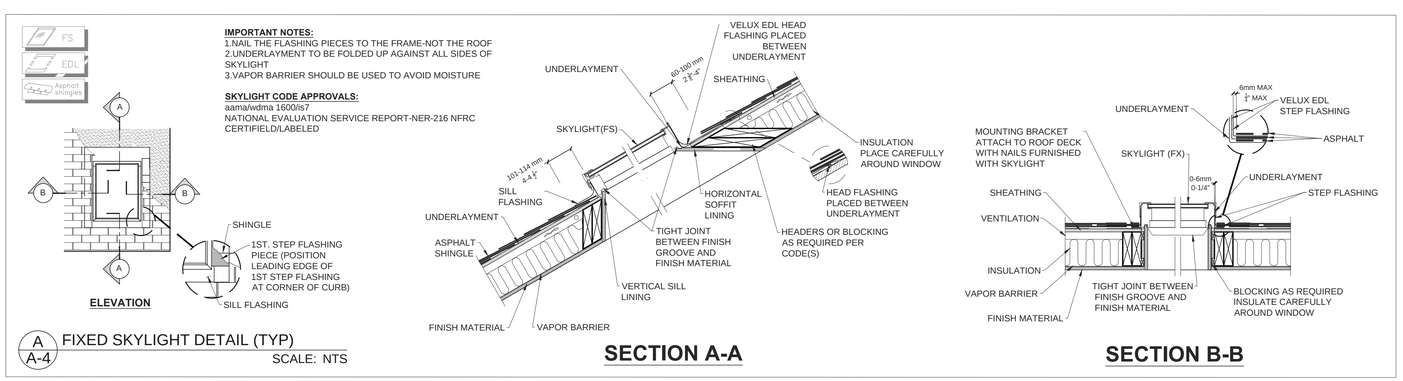
project no 2016

sheet no. A-3



ROOF FLOOR PLAN

SCALE 1/4" = 1'-0"

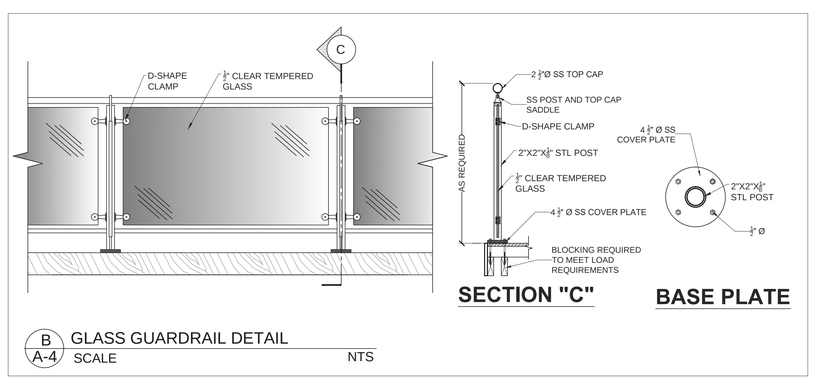


A A-4 FIXED SKYLIGHT DETAIL (TYP)

SCALE: NTS

SECTION A-A

SECTION B-B



SECTION "C"

BASE PLATE

B A-4 GLASS GUARDRAIL DETAIL

SCALE NTS

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

- ROOF FLOOR PLAN

DATE	ISSUED FOR
07/29/16	PLANING SET

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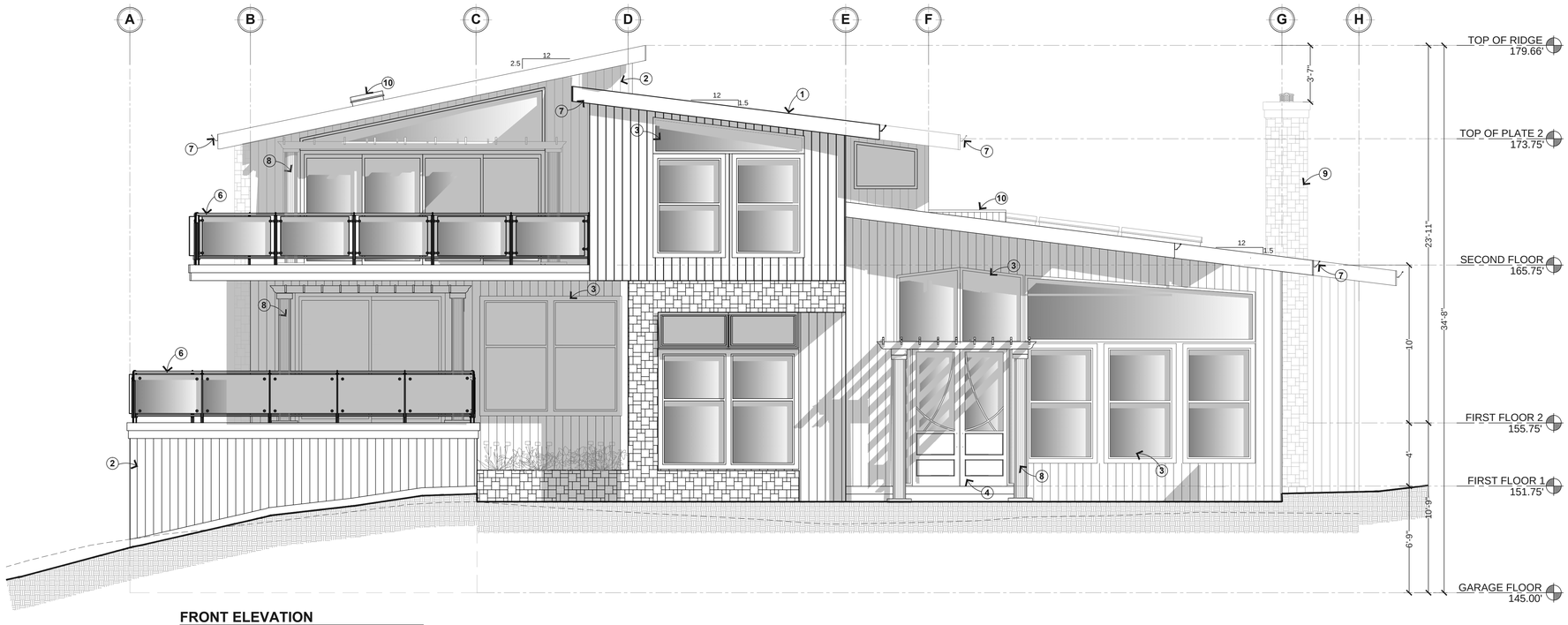
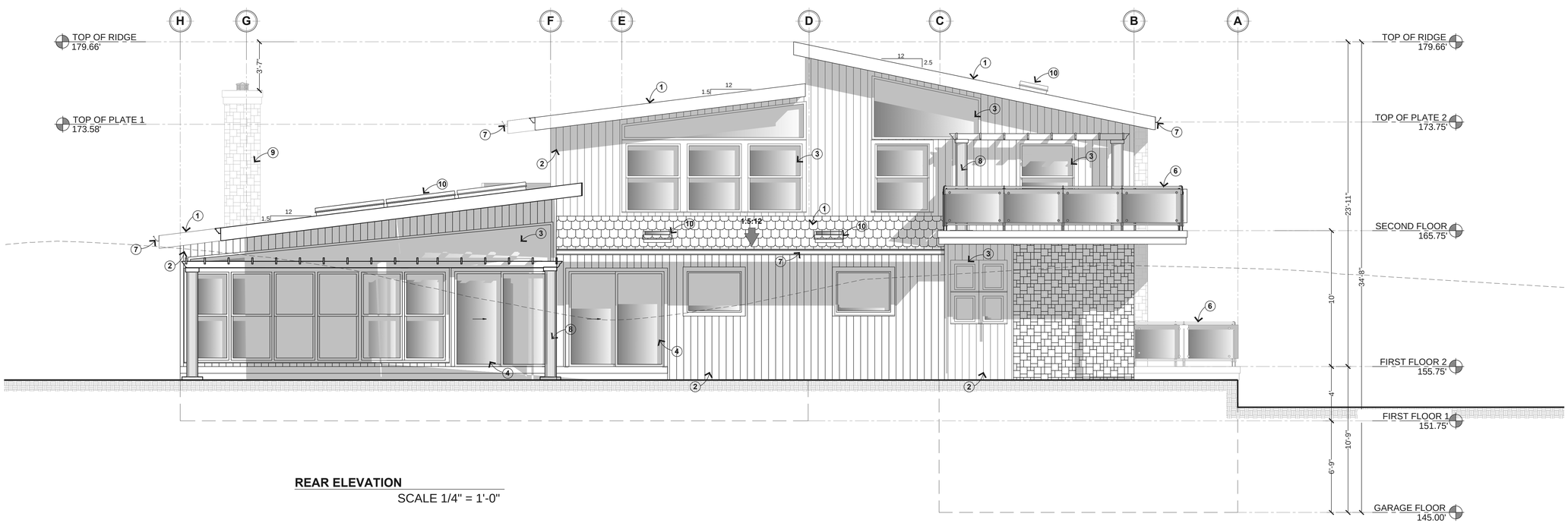
project no 2016

sheet no. A-4



FRONT ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

SCALE 1/4" = 1'-0"

LEGEND

1. ROOF
   COMPOSITION SHINGLE.
   PROVIDING A MIN CLASS B
   ROOFING OVER 15# FELT
   MIN.
2. **EXTERIOR WALLS**
   CEDAR GROOVE VERTICAL
   SIDING
3. **WINDOWS**
   ALUMINUM CLAD
   WINDOW
4. **ENTRY DOORS**
   ALUMINUM CLAD
   FRAME
5. **GARAGE DOOR**
   WOOD
6. **GUARDRAIL**
   STAINLESS STEEL AND GLASS
7. **FASCIA AND GUTTERS**
   PAINTED WOOD FASCIA
   AND METAL GUTTERS
8. **COLUMN**
   ROUND NON TAPERED
   STYLE TUSCAN
   SHAFTS PLAIN
9. **FIRE PLACE**
   STACKED GRAY STONE
   GAS FIREPLACE
10. **SKYLIGHT**
    ALUMINUM CLAD GLASS

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

ODDSTAD WAY

PROJECT ADDRESS
PROJECT ADDRESS
APN: 000-000-000

Sheet:

- FRONT ELEVATION
- REAR ELEVATION

DATE	ISSUED FOR
07/29/16	PLANING SET

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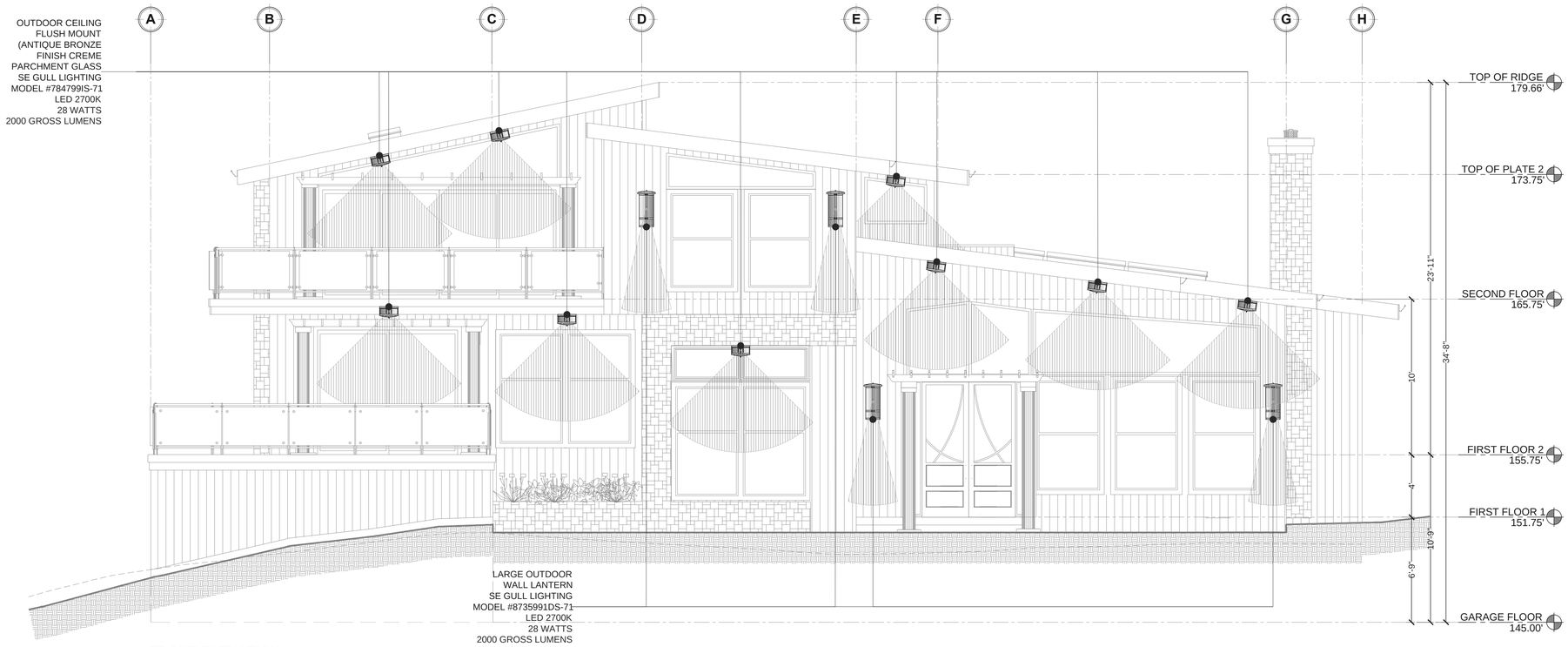
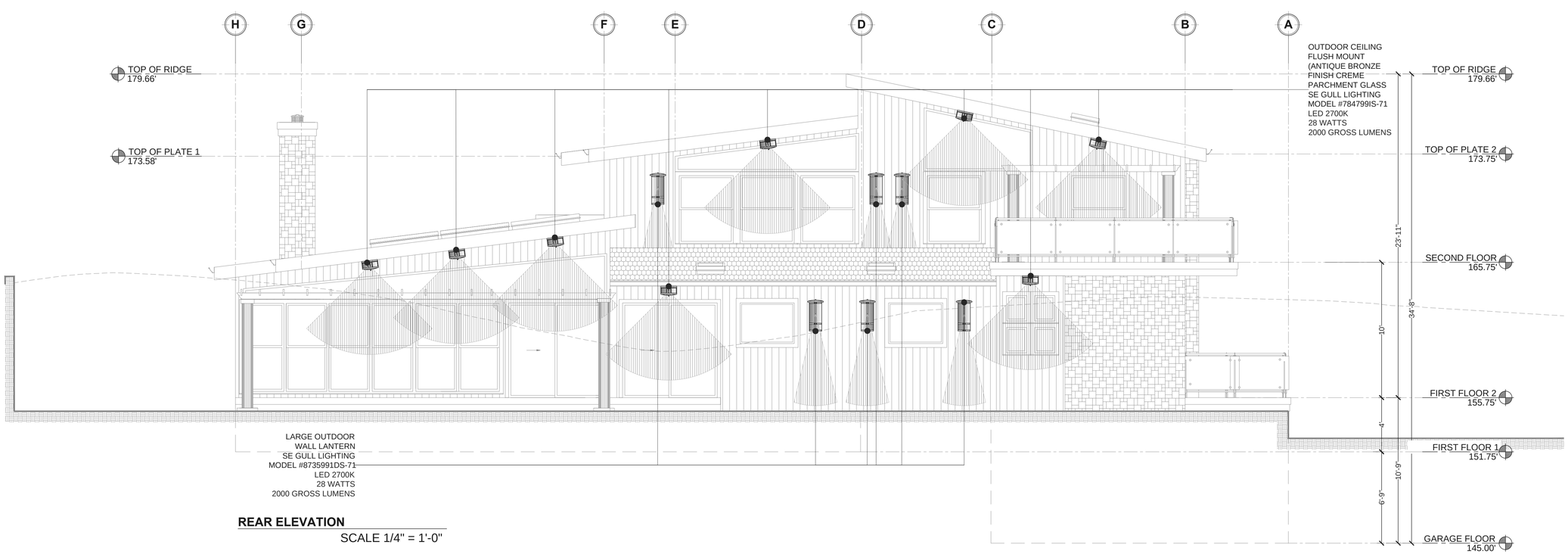
project no 2016

sheet no. A-5



FRONT ELEVATION

SCALE 1/4" = 1'-0"



REAR ELEVATION

SCALE 1/4" = 1'-0"

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

ODDSTAD WAY

PROJECT ADDRESS
PROJECT ADDRESS
APN: 000-000-000

Sheet:

- LIGHT FIXTURE ELEVATIONS

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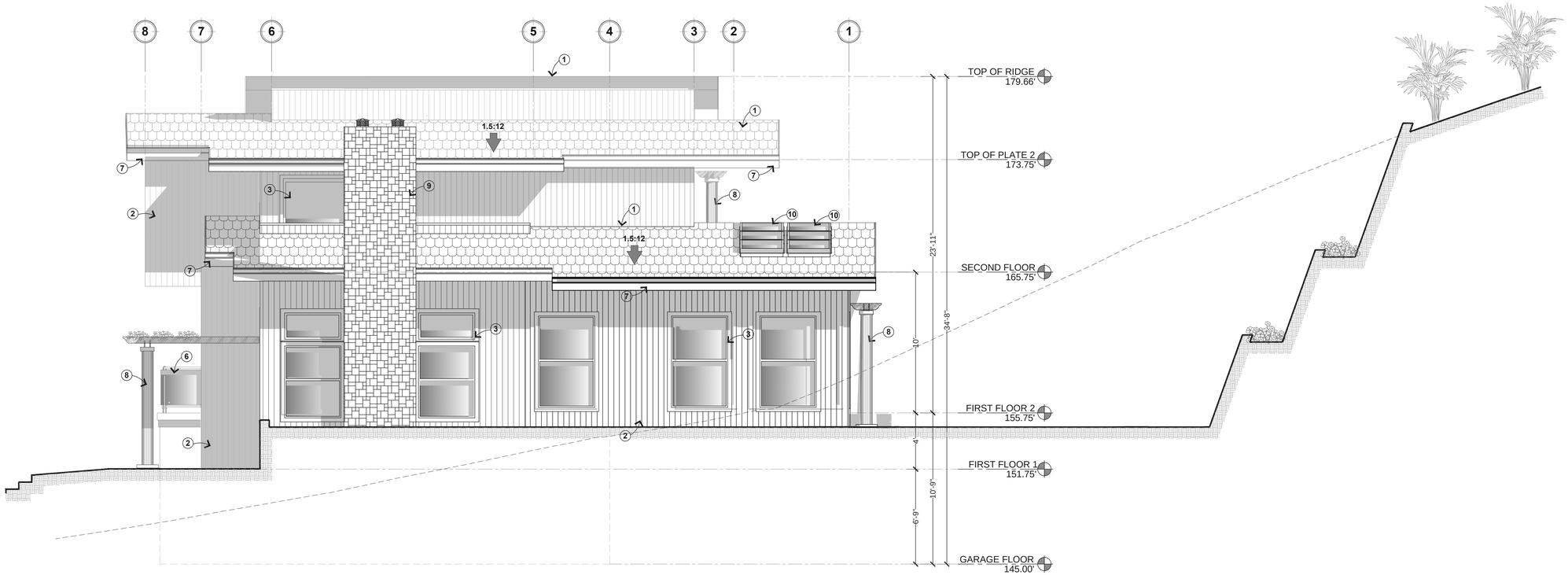
Checked by: JC

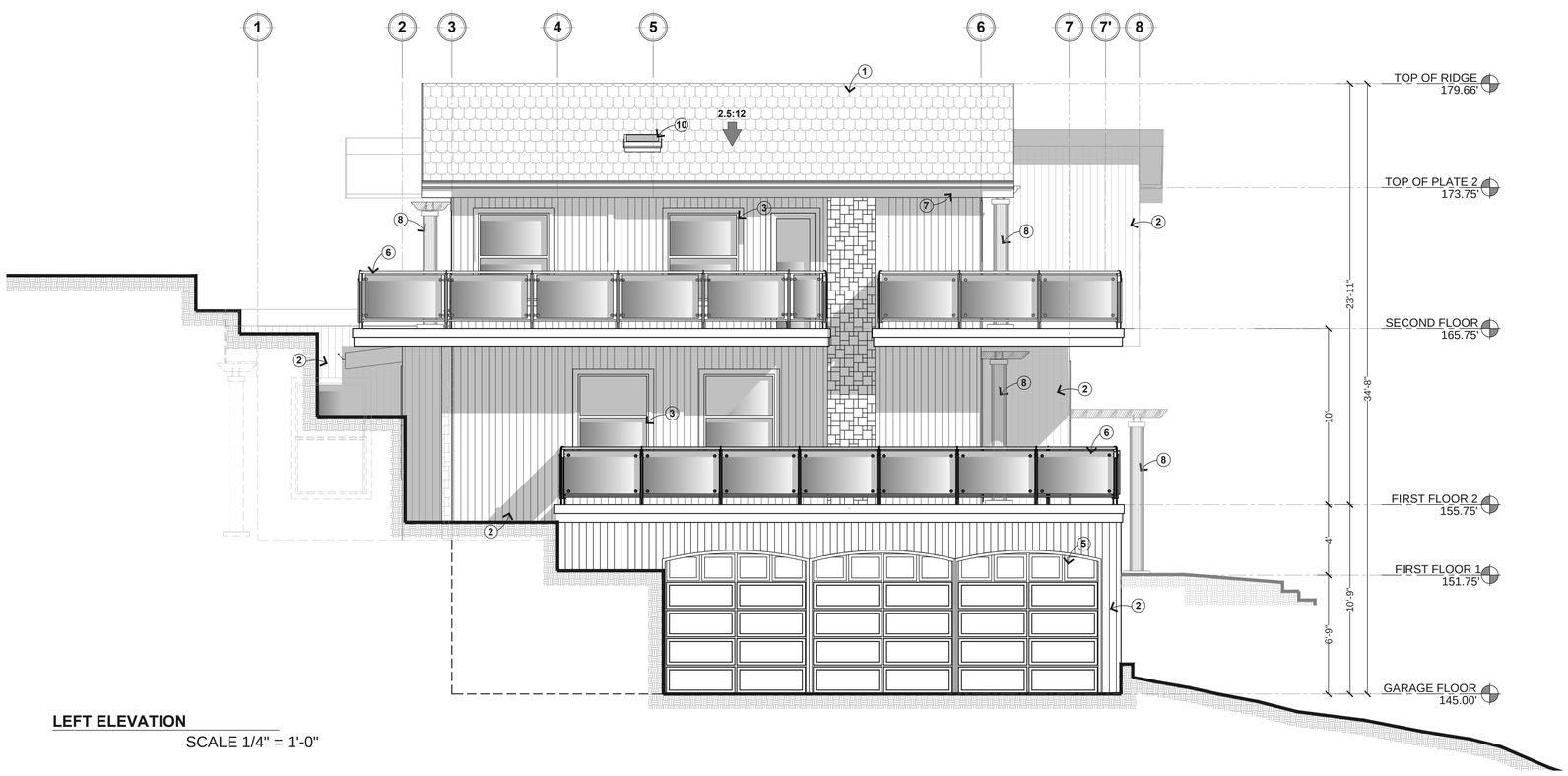
project no 2016

sheet no. A-5.1



RIGHT ELEVATION

SCALE 1/4" = 1'-0"



LEFT ELEVATION

SCALE 1/4" = 1'-0"

LEGEND

1. **ROOF**
   COMPOSITION SHINGLE. PROVIDING A MIN CLASS B ROOFING OVER 15# FELT MIN.
2. **EXTERIOR WALLS**
   CEDAR GROOVE VERTICAL SIDING
3. **WINDOWS**
   ALUMINUM CLAD WINDOW
4. **ENTRY DOORS**
   ALUMINUM CLAD FRAME
5. **GARAGE DOOR**
   WOOD
6. **GUARDRAIL**
   STAINLESS STEEL AND GLASS
7. **FASCIA AND GUTTERS**
   PAINTED WOOD FASCIA AND METAL GUTTERS
8. **COLUMN**
   ROUND NON TAPERED STYLE TUSCAN SHAFTS PLAIN
9. **FIRE PLACE**
   STACKED GRAY STONE GAS FIREPLACE
10. **SKYLIGHT**
    ALUMINUM CLAD GLASS

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

ODDSTAD WAY

PROJECT ADDRESS
PROJECT ADDRESS
APN: 000-000-000

Sheet:

- RIGHT ELEVATION
- LEFT ELEVATION

DATE	ISSUED FOR
07/29/16	PLANING SET

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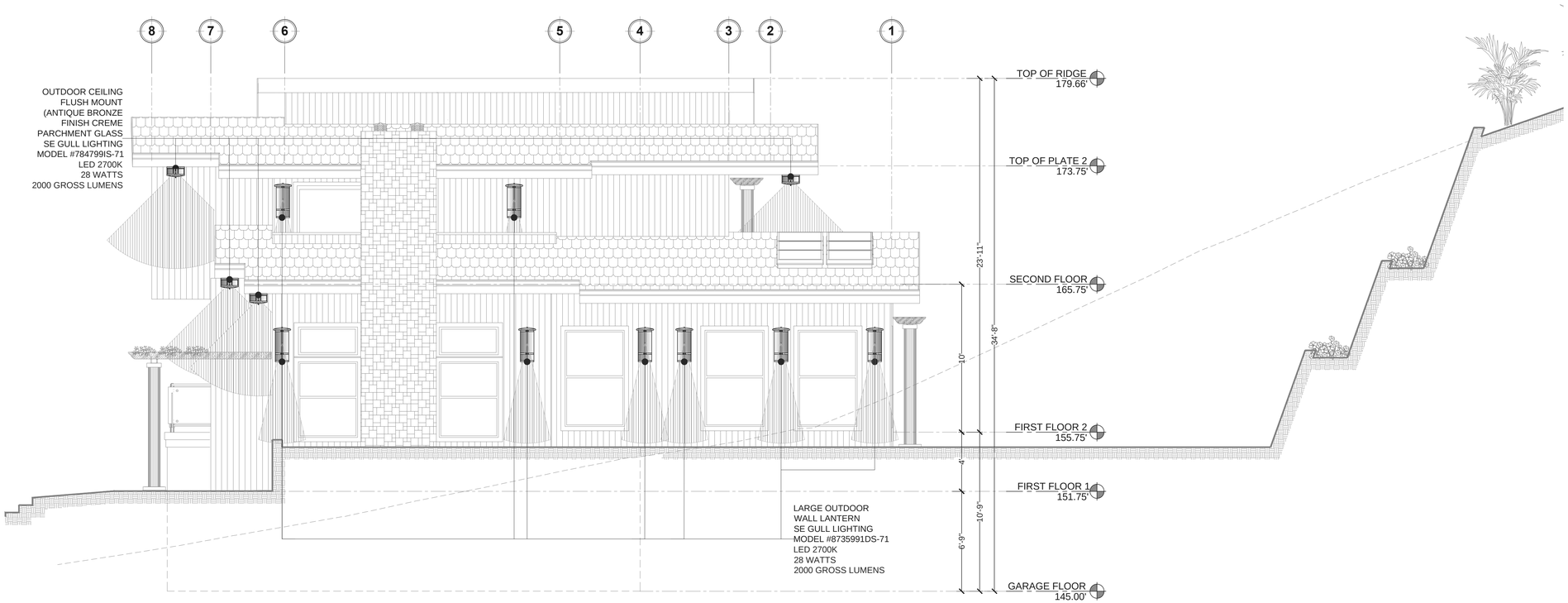
Checked by: JC

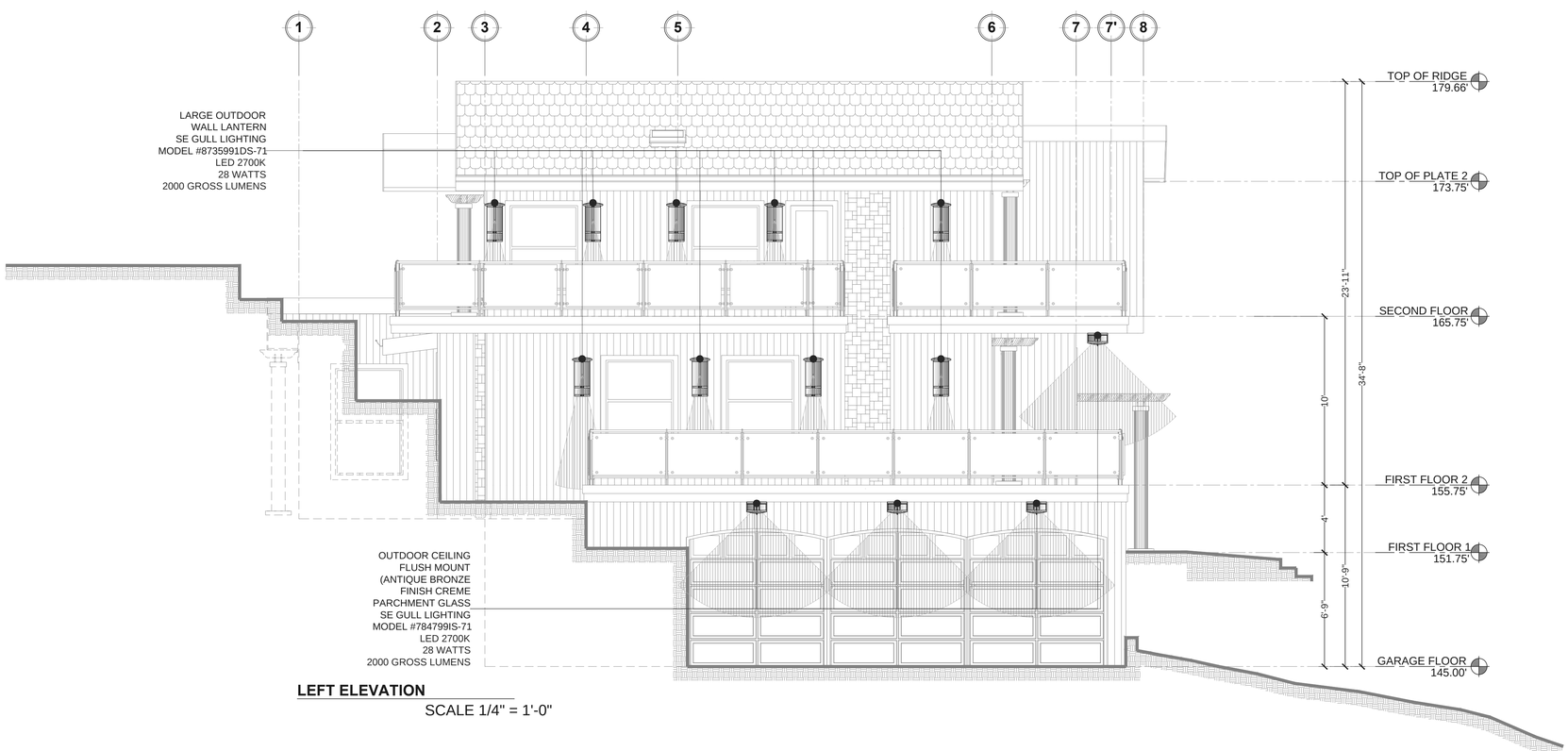
project no 2016

sheet no. A-6



RIGHT ELEVATION

SCALE 1/4" = 1'-0"



LEFT ELEVATION

SCALE 1/4" = 1'-0"

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

ODDSTAD WAY

PROJECT ADDRESS
PROJECT ADDRESS
APN: 000-000-000

Sheet:

- LIGHT FIXTURE ELEVATION

DATE	ISSUED FOR
07/29/16	PLANING SET

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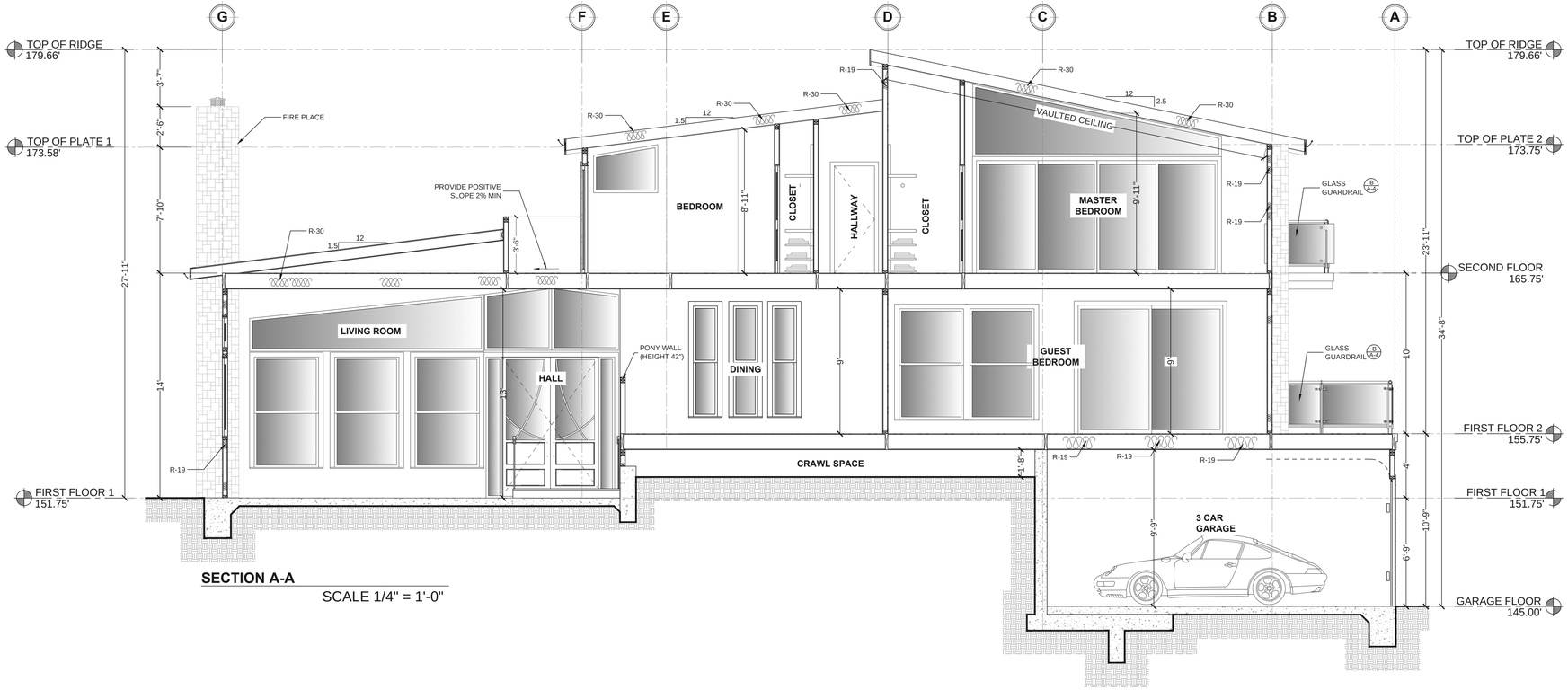
Checked by: JC

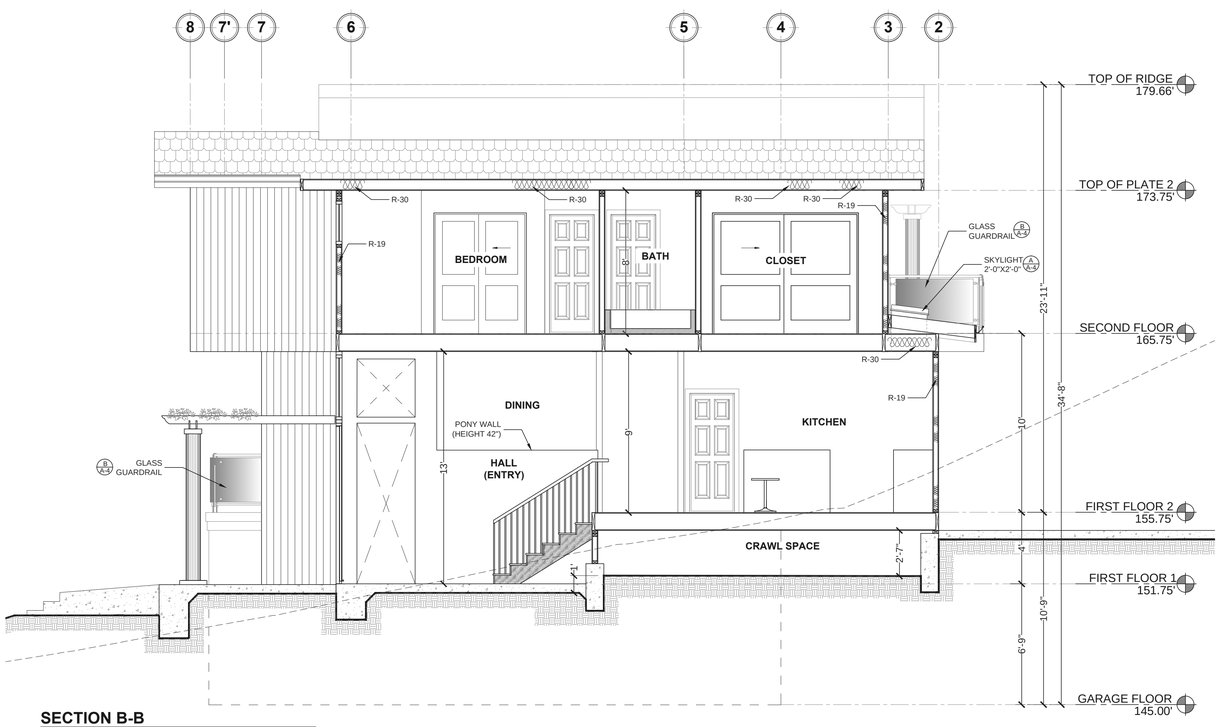
project no 2016

sheet no. A-6.1



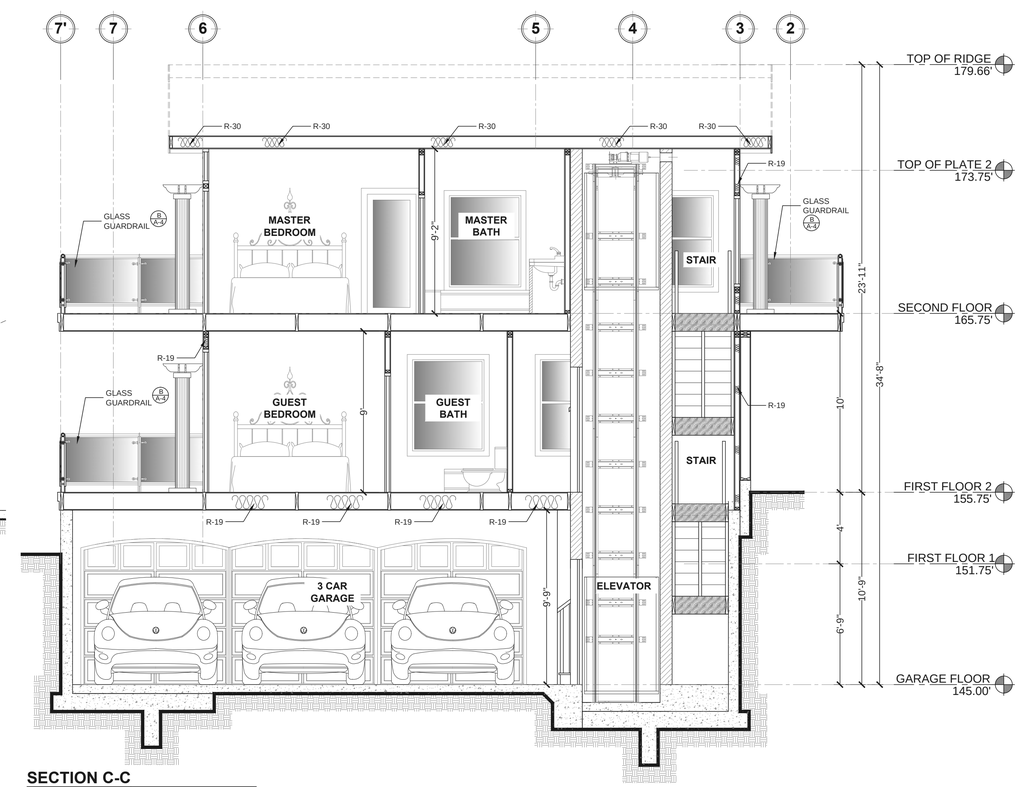
SECTION A-A

SCALE 1/4" = 1'-0"



SECTION B-B

SCALE 1/4" = 1'-0"



SECTION C-C

SCALE 1/4" = 1'-0"

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

ODDSTAD WAY

PROJECT ADDRESS
PROJECT ADDRESS
APN: 000-000-000

Sheet:

- SECTION A-A
- SECTION B-B
- SECTION C-C

DATE	ISSUED FOR
07/29/16	PLANING SET

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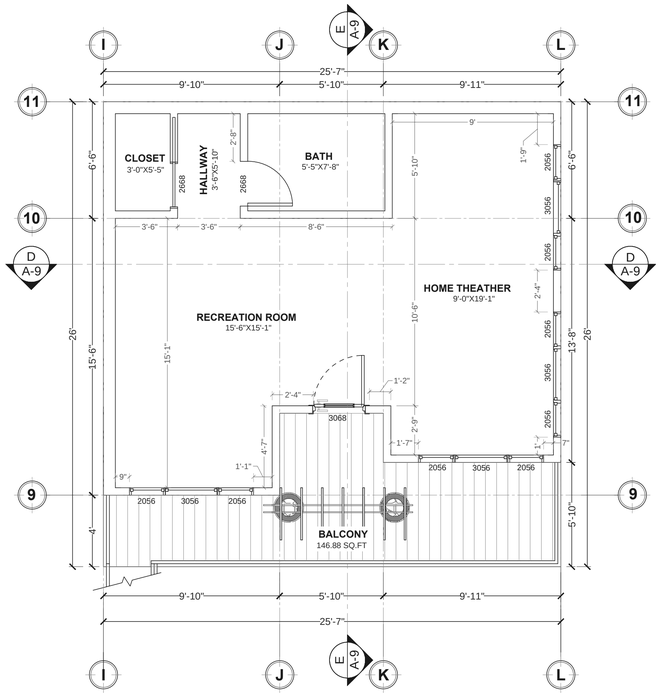
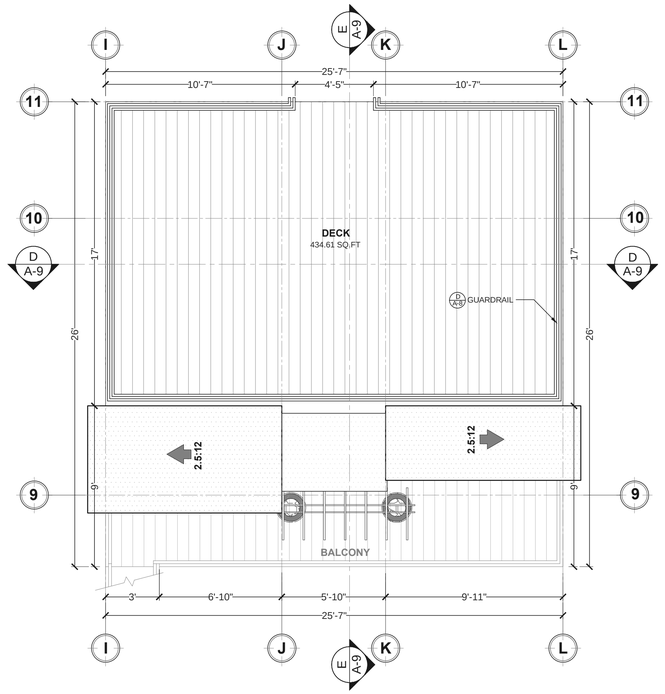
project no 2016

sheet no. A-7



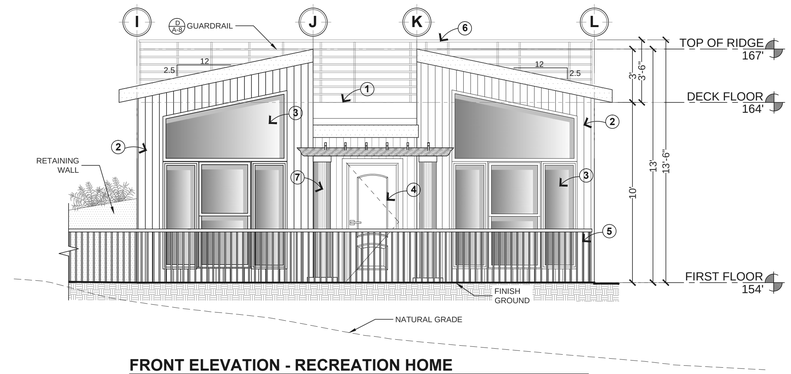
FLOOR PLAN RECREATION HOME

SCALE 1/4" = 1'-0"



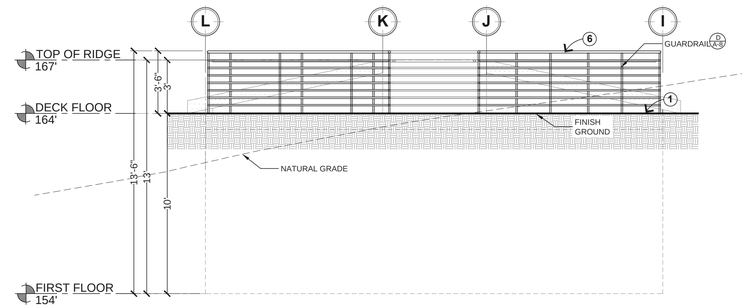
ROOF FLOOR PLAN - RECREATION HOME

SCALE 1/4" = 1'-0"



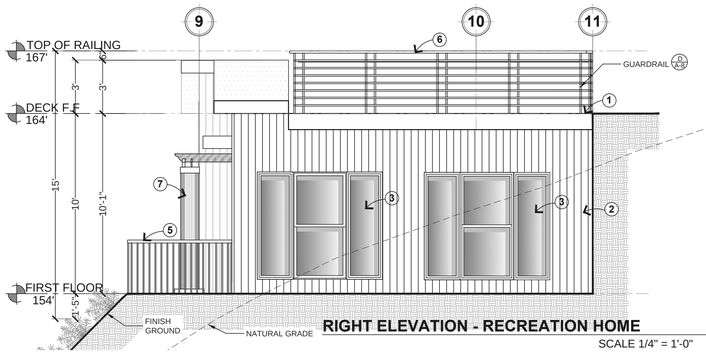
FRONT ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"



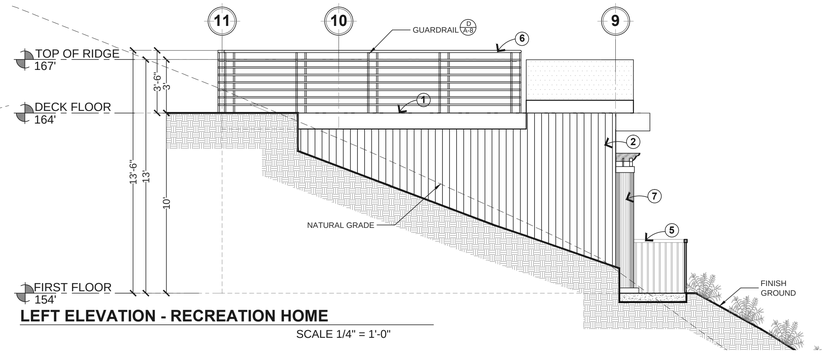
REAR ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"



RIGHT ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"

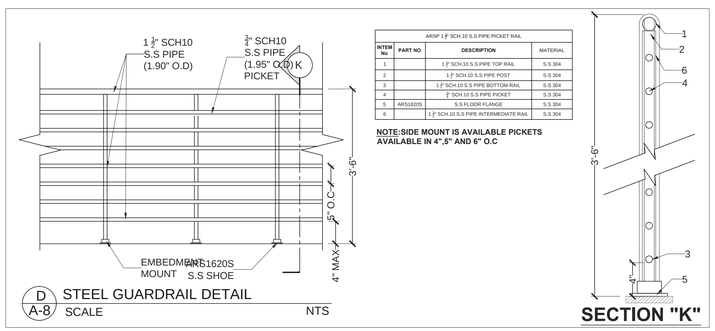


LEFT ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"

LEGEND

1. ROOF DECKING
   METACRY LICS ROOF DECKING
   ICC-ES(ICBO)
   ER-4785
2. **EXTERIOR WALLS**
   CEDAR GROOVE VERTICAL
   SIDING
3. **WINDOWS**
   ALUMINUM CLAD
   WINDOW
4. **ENTRY DOORS**
   ALUMINUM CLAD FRAME
5. **GUARDRAIL**
   WOOD PAINTED
6. **GUARDRAIL**
   STAINLESS STEEL
7. **COLUMN**
   ROUND NON TAPERED
   STYLE TUSCAN
   SHAFTS PLAIN



D A-8 STEEL GUARDRAIL DETAIL

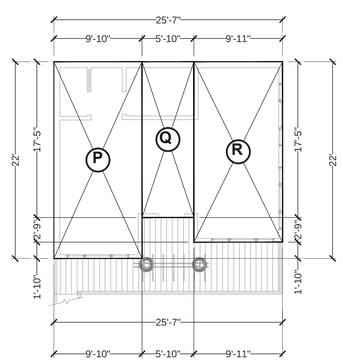
SCALE NTS

ARSP 1 $\frac{1}{2}$" SCH.10 S.S PIPE PICKET RAIL

INTEM No	PART NO	DESCRIPTION	MATERIAL
1		1 $\frac{1}{2}$" SCH.10 S.S PIPE TOP RAIL	S.S 304
2		1 $\frac{1}{2}$" SCH.10 S.S PIPE POST	S.S 304
3		1 $\frac{1}{2}$" SCH.10 S.S PIPE BOTTOM RAIL	S.S 304
4		$\frac{3}{4}$" SCH.10 S.S PIPE PICKET	S.S 304
5	ARS1620S	S.S FLOOR FLANGE	S.S 304
6		1 $\frac{1}{2}$" SCH.10 S.S PIPE INTERMEDIATE RAIL	S.S 304

NOTE:SIDE MOUNT IS AVAILABLE PICKETS AVAILABLE IN 4",5" AND 6" O.C

SECTION "K"



FIRST FLOOR AREA CALCULATION PLAN

SCALE 1/8" = 1'-0"

FIRST FLOOR AREA CALCULATION

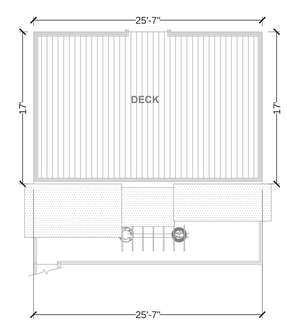
216.61 SQ.FT → P
100.99 SQ.FT → Q
200.00 SQ.FT → R

TOTAL LIVING AREA → 517.60 SQ.FT

TOTAL BALCONY AREA → 146.88 SQ.FT

ROOF FLOOR AREA CALCULATION

TOTAL DECK AREA → 434.61 SQ.FT



ROOF FLOOR AREA CALCULATION PLAN

SCALE 1/8" = 1'-0"

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

- FLOOR PLANS RECREATION HOME
- ELEVATIONS RECREATION HOME
- FLOOR AREA CALCULATION RECREATION HOME

DATE	ISSUED FOR
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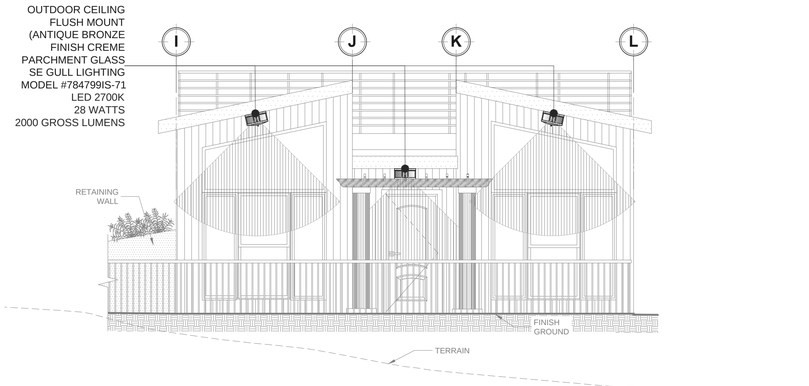
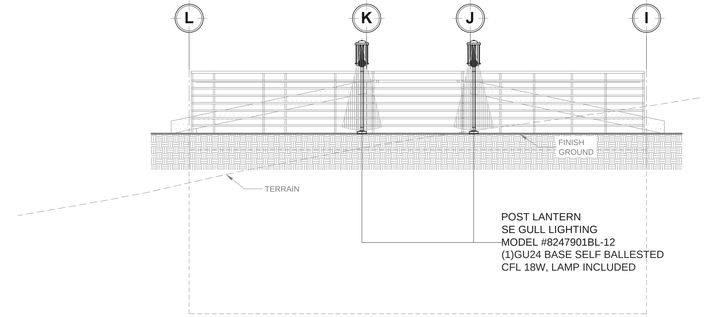
sheet no. A-8



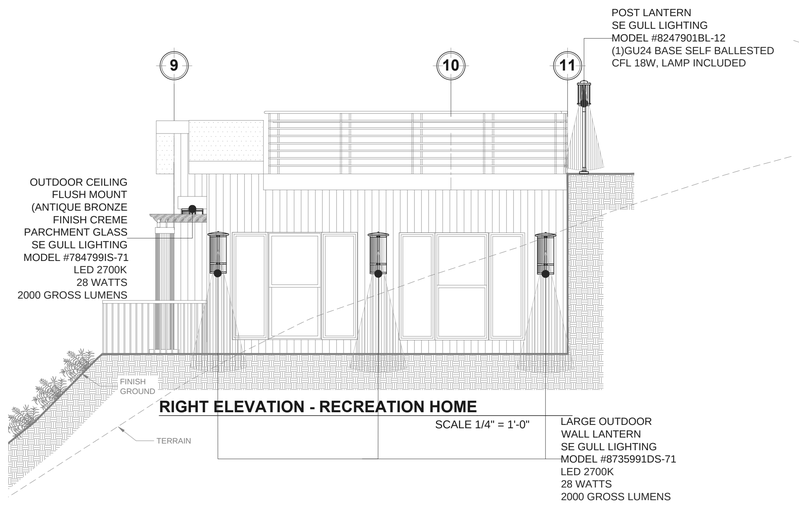
FRONT ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"



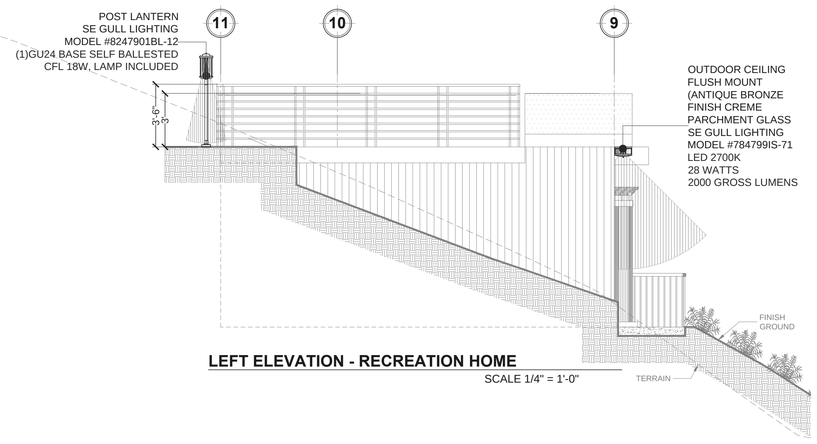
REAR ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"



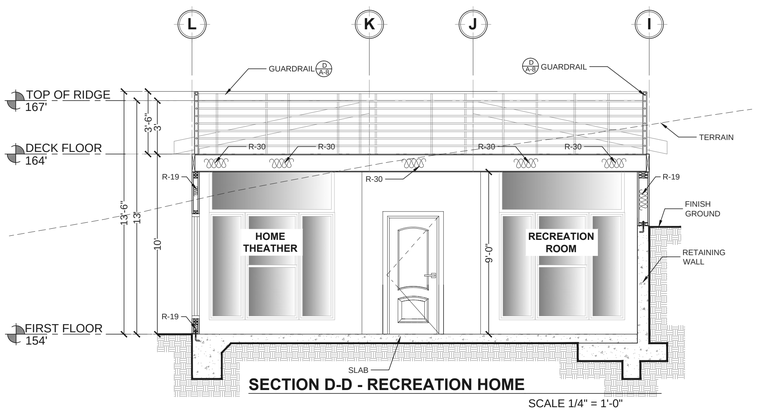
RIGHT ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"



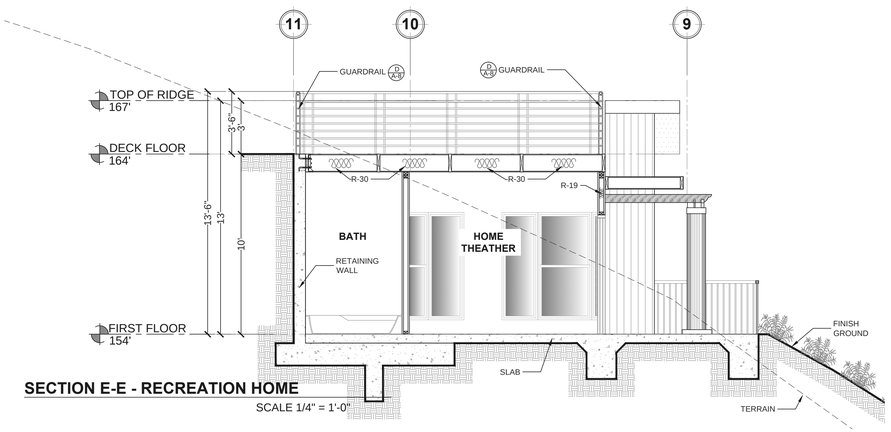
LEFT ELEVATION - RECREATION HOME

SCALE 1/4" = 1'-0"



SECTION D-D - RECREATION HOME

SCALE 1/4" = 1'-0"



SECTION E-E - RECREATION HOME

SCALE 1/4" = 1'-0"

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CIVIL AND STRUCTURAL ENGINEERS

REMARKS:

LOTS 6 TO 12
ODDSTAD WAY
PACIFICA, CA 94044

Sheet:

- LIGHT FIXTURE ELEVATION "RECREATION HOME"
- SECTION D-D & SECTION E-E "RECREATION HOME"

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project no 2016

sheet no. A-9