







# GRADING & DRAINAGE PLAN FOR SULLIVAN RESIDENCE PETALUMA, CALIFORNIA

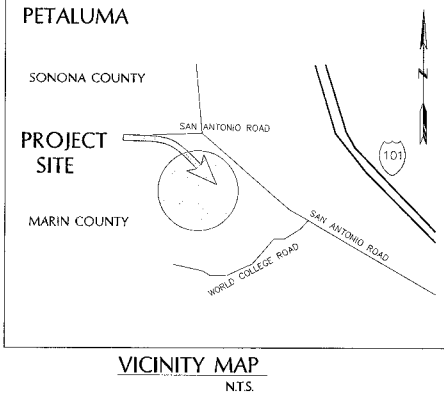
## PROJECT TEAM

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ATTN: RICHARD SOUZA/DENNIS RHEHART

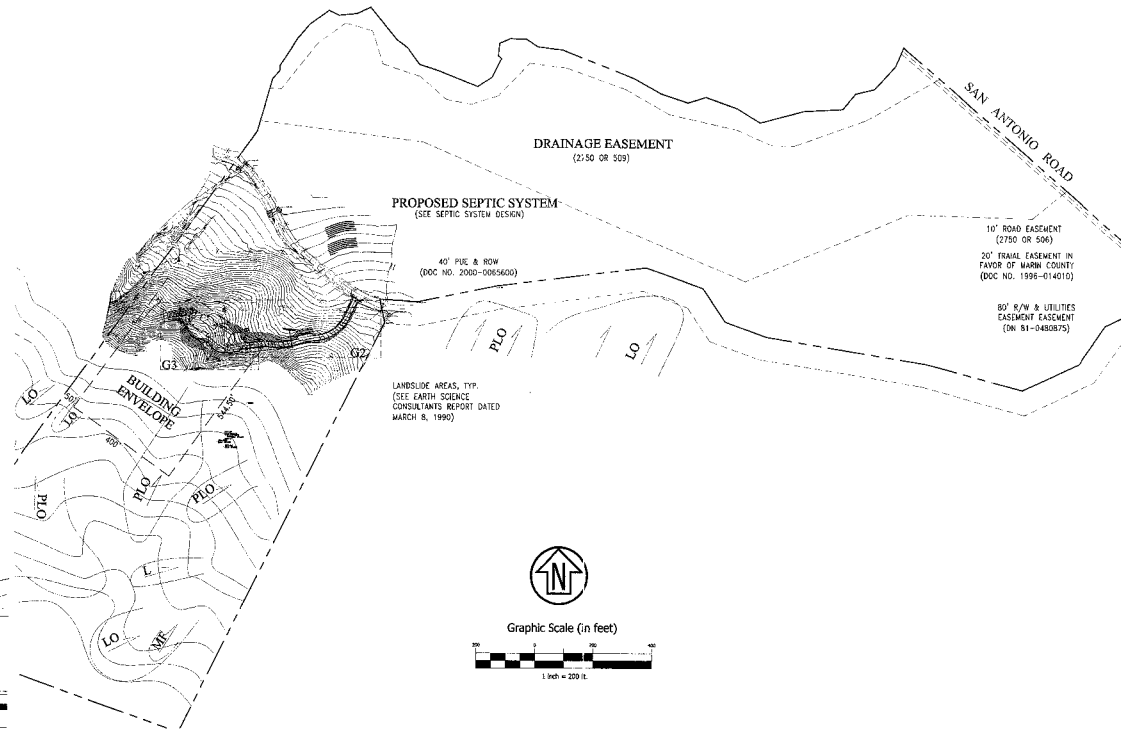


## BASIS OF TOPOGRAPHY

The topography shown is based on a field survey performed by R.W. Davis & Assoc. in October 2004. The vertical elevation is assumed only.

## ABBREVIATIONS

A.R.	Aggregate Base	PCC	Point of Compound Curve
A.C.	Asphalt Concrete	P.C.C.	Portland Cement Concrete
B.C.	Begin Curve	P.L.O.	Possible Older Landslide
B.W.	Bottom of Wall	PRC	Point of Reverse Curve
CB	Catch Basins	PVC	Polyvinyl Chloride
C.L.	Centerline/Control Line	RCP	Reinforced Concrete Pipe
EC	End Curve	R/W	Right of Way
EP	Edge of Pavement	SD	Storm Drain
FG	Face of Curb	SDMH	Storm Drain Manhole
FC	Finished Grade	SF	Square Foot
FB	Fire Hydrant	SSMH	Sanitary Sewer Manhole
FS	Finish Surface	SS	Sanitary Sewer
GB	Grade Break	T	Telephone
HP	High Point	tw	Top of Wall
JB	Junction Box	bw	Bottom of Wall
JT	Joint Trench	TC	Top of Curb
L	Recent Landslide	VC	Vertical Curve
LF	Linear Feet	W/WL	Water Line
LO	Older Landslide	WM	Manhole
LP	Low Point		

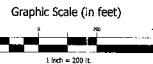
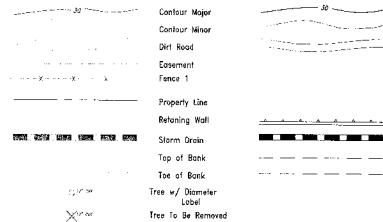


## GENERAL NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH THE CURRENT COUNTY OF MARI TITLE 24 STANDARD SPECIFICATIONS, UNIFORM CONSTRUCTION STANDARDS, COUNTY ORDINANCES, AND NOVATO FIRE PROTECTION DISTRICT.
- NO GRADING SHALL BE COMMENCED WITHOUT OBTAINING A GRADING PERMIT FROM THE COUNTY ENGINEER.
- NO TREES SHALL BE REMOVED WITHOUT OBTAINING A TREE REMOVAL PERMIT FROM THE COUNTY PLANNING DEPARTMENT. TREES TO BE SAVER SHALL BE FENCED OR PROTECTED AS DIRECTED BY THE COUNTY ENGINEER.
- CUT AND FILL SLOPES SHALL BE SLOPED AT THEIR EDGES.
- ALL DISTURBED AREAS SHALL BE HYDROSEDED TO CONTROL EROSION BY SEPTEMBER 15.
- ALL PAVING SECTIONS ARE APPROXIMATE AND FINAL SECTIONS TO BE DETERMINED BY GEOTECHNICAL ENGINEER BASED ON REVIEW OF SUBGRADE. MINIMUM 1% G.
- PROJECT GRADING YARDAGE: 3500 CUBIC YARDS CUT, 3500 CUBIC YARDS FILL NOT INCLUDING OVER EXCAVATION FOR RETAINING WALLS. DRIVEWAY GRADING YARDAGE: 270 CUBIC YARDS CUT, 1600 CUBIC YARDS FILL NOT INCLUDING OVER EXCAVATION FOR RETAINING WALLS.
- EXCESS MATERIAL, IF OCCURS, MUST BE PLACED AT AN APPROVED FILL SITE.
- THE COUNTY ENGINEER SHALL BE NOTIFIED TWO WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- ALL UTILITIES, INCLUDING CABLE TV FACILITIES SHALL BE UNDERGROUND.
- TRENCHES 5 FEET DEEP OR MORE SHALL BE SHORED AND BRACED PER STATE LAW.
- ALL EXISTING UTILITIES ARE INDICATED IN THEIR APPROXIMATE LOCATION ACCORDING TO THE EXTENT OF THE BEST INFORMATION AVAILABLE. CONTRACTOR TO VERIFY EXACT LOCATIONS ON-SITE.
- THE CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY OR DAMAGE ARISING FROM HIS CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
- ANY DAMAGE CAUSED AS A RESULT OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER OR ENGINEER.
- THE REMOVAL OF OBSTRUCTIONS (POWER POLES, FENCES, RETAINING WALLS, TREES STRUCTURES, PIPELINES, ETC.) SHALL BE AT THE CONTRACTOR'S EXPENSE.
- ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED TO 2:1 MAXIMUM UNLESS SHOWN OTHERWISE ON THE PLANS.
- PLACE 2"-2" WEEP HOLES IN ALL ORNAMENT STRUCTURES ABOVE STRUCTURE FLOWLINES ALONGSIDE EACH PIPE AT INLET.
- ALL STORM DRAIN PIPE SHALL BE AS NOTED ON THE PLANS.
- EXCEPT AS NOTED, HOPE SHALL BE USED FOR ALL PIPES OR AN APPROVED EQUIVALENT, WITH MANUFACTURED ELBOWS AND FITTINGS, GLEED AND OR CONNECTED WATERPROOF BY THE MANUFACTURER'S RECOMMENDATIONS. CORRUGATED OR FLEXIBLE PVC STORM DRAINS ARE NOT PERMITTED.
- LIMITED GRADING, NO STORAGE OF VEHICLES, EQUIPMENT, TOPSOIL, OR OTHER MATERIALS SHALL BE PERMITTED WITHIN THE DRP LINES OF TREES TO BE SAVED EXCEPT WHERE NOTED ON THE IMPROVEMENT PLANS OR AS AUTHORIZED BY THE COMMUNITY DEVELOPMENT AGENCY.
- LIMITS OF GRADING SHALL BE STATED IN THE FIELD PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES.
- CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM AREAS OF THE SITE BEYOND THE LIMITS OF GRADING. AREAS OF NATURAL VEGETATION SHALL BE PROTECTED AS NECESSARY.
- ALL TREES TO BE SAVED WITHIN OR ADJACENT TO THE DESIGNATED AREA OF GRADING SHALL BE FENCED AT THEIR DROP LINES PRIOR TO AND DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY CONFLICT BETWEEN PROPOSED UTILITIES WITH OTHER UNDERGROUND FACILITIES.
- THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 48 HOURS PRIOR TO NEEDING INSPECTIONS.
- THE BOUNDARY SHOWN HEREON IS DEPICTED FOR GRAPHICAL PURPOSES ONLY AND IS NOT BASED ON A FIELD SURVEY.
- AT LEAST TWO (2) INCH DIAMETER WEEP HOLES SHALL BE PLACED IN THE FOUNDATION TO DRAIN SUB FLOOR AREA. SIMILAR DRAINS SHALL BE INSTALLED IN ANY INTERIOR FOUNDATION SO THAT THE WATER IS NOT TRAPPED UNDER THE BUILDING.
- ANY PORTIONS OF DRIVEWAY OVER 18% GRADE SHALL BE SURFACED WITH P.C.C. AND GIVEN A BROOVED OR OTHERWISE ROUGH FINISH.
- SEE ARCHITECTURAL PLANS FOR RAINWATER LEADER LOCATIONS.
- ALL ROOF DRAIN SPOTS SHALL CONECT TO UNDERGROUND STORM DRAINS WITH WATERPROOF CONNECTIONS.
- FOR FOOTING DRAIN INFORMATION, SEE STRUCTURAL PLANS.
- THE SOIL ENGINEER/DESIGN ENGINEER SHALL CERTIFY TO THE COUNTY IN WRITING (SIGNED AND STAMPED) THAT ALL GRADING, DRAINAGE WORK AND RETAINING WALL EXCAVATION CONSTRUCTION WAS DONE IN ACCORDANCE WITH PLANS AND DIRECTIONS. ANY FIELD CHANGES SHALL BE NOTED ON "AS-BUILT" PLANS. IDENTIFICATION LETTERS SHALL CONTAIN THE BUILDING PERMIT NO., A.P.N. AND PROJECT ADDRESS.
- DRIVEWAY, PARKING, AND OTHER SITE IMPROVEMENTS SHALL BE INSPECTED BY A MARIN COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEER PRIOR TO FINAL BUILDING INSPECTION.

## EXISTING

## PROPOSED



## PROJECT MAP

Rev	Date	Description	Designed	Drawn	Checked
F	3/23/07	REVISED SUBMITTAL TO COUNTY OF MARI NERB COMMENTS DATE 3/5/07	RJS	RS	JOS
C	11/30/06	REVISED SUBMITTAL TO COUNTY OF MARI NERB COMMENTS DATE 8/25/06	RJS	RS	JOS
D	7/19/2006	REVISED SUBMITTAL TO COUNTY OF MARI WITH JURISDICTIONAL WETLANDS BOUNDARY	RJS	RS	JOS
C	6/5/2006	REVISED SUBMITTAL TO COUNTY OF MARI PER PLAN CHECK COMMENTS DATED 3/2/06	RJS	RS	JOS
B	3/27/2006	REVISED BUILDING ELEVATION AND SEND COPIES TO PROJECT ARCHITECT	RJS	RS	JOS
A	2/15/2006	INITIAL SUBMITTAL TO COUNTY OF MARI FOR DESIGN REVIEW	RJS	RS	JOS

**CSW [St]<sup>2</sup>**  
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City: Petaluma  
County: Marin  
State: California

SULLIVAN RESIDENCE  
**GRADING & DRAINAGE PLAN**  
AP.N. 125-130-35

Prepared Under the Direction of:



**G1**

Scale: Horizontal: n/a, Vertical: n/a  
File: 6-666-97  
Date: \_\_\_\_\_  
Plan File: D-4520