

**DOOR SCHEDULE**

S/NL	SIZE	TYPE	HK	REMARKS
1	DBL 3'-0" x 9'-6"	ENTRY DR.	1-3/4"	TEMP. GL. EXTERIOR DR. W/ SECURITY HARDWARE. PER OWNER
2	3'-0" x 8'-0"	20 MM DR.	-	TIGHT FITTING, SET GLASSING, SELF LANDING, W/ SECURITY HARDWARE
3	3'-0" x 8'-0"	SLID DR.	-	EXTERIOR DR. W/ SECURITY HARDWARE
4	16'-0" x 8'-0"	GAZED DR.	-	SECTIONAL ROLL-UP DOORS, ARCHED TOP
5	2'-8" x 8'-0"	SOLID CORE	-	INTERIOR DOOR, PER OWNER
6	3'-0" x 8'-0"	BI FOLD DR.	-	INTERIOR DOOR, PER OWNER
7	4'-0" x 8'-0"	BI FOLD DR.	-	INTERIOR DOOR, PER OWNER
8	2'-6" x 6'-8"	BI FOLD DR.	-	INTERIOR DOOR, PER OWNER
9	15'-0" x 6'-8"	SLIDING DOOR	-	PER OWNER
10	2'-6" x 3'-0"	BI FOLD DR.	-	STORAGE DOOR, PER OWNER

NOTE: CONTRACTOR MUST REFER TO IM COBB OR OALE FOR DOORS

**WINDOW SCHEDULE**

S/NL	SIZE	TYPE	GLASS	U-FACTOR	SHGC	REMARKS
A	4'-0" x 5'-0"	PICTURE	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMPD.
B	2'-0" x 5'-0"	SINGLE HUNG	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMPD.
C	5'-0" x 4'-6"	SLIDER	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMPD.
D	5'-0" x 6'-0"	FIXED	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMPD.
E	3'-0" x 2'-0"	SLIDER	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMPD.

NOTE: CONTRACTOR TO FULLY REVIEW I-24 GLAZING REQUIREMENTS PRIOR TO ORDERING DOORS AND WINDOWS

THIS PROJECT IS LOCATED WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONE. ALL WINDOWS AND GLAZED DOORS ARE TEMPERED GLASS.

**FLOOR PLAN NOTES:**

- 1 = NEW 2x STUD WALLS PER PLAN, TYP. (UNO)
- 2 = LINE OF SECOND FLOOR ABOVE
- 3 = WOOD STAIRCASE PER PLAN
- 4 = KITCHEN CABINETS, PER OWNER
- 5 = GRANITE COUNTER-TOPS, PER OWNER
- 6 = ISLAND W/ BUILT-IN CUTTING-BOARD, GRANITE COUNTER-TOP, PER OWNER
- 7 = UNDER-COUNTER TRASH DRAWERS, PER OWNER
- 8 = 2 1/2" W. STAINLESS OVEN/RANGE, PER OWNER (WINGING 03, MODEL R030220)
- 9 = SINK, PER OWNER
- 10 = MICROWAVE, PER OWNER (WINGING 03, MODEL R030220, W/ HOOD)
- 11 = 7" O. ART NICHE, PER PLAN
- 12 = 36" W. REFRIGERATOR PER OWNER (WINGING 03, MODEL R03F236-36)
- 13 = UNDER COUNTER 24" WIDE BEVERAGE REFRIGERATOR, PER OWNER
- 14 = "TESA FM" PRE-FABRICATED 42" FREEZE, ESP-2542 (O.A.E.), PER OWNER, MODEL 38C II (NOTE: DIRECT VENT SEALED COMBUSTION)
- 15 = BATHROOM SINK UNIT, PER OWNER
- 16 = 1.28 G.P.F. WATER CLOSET, PER OWNER
- 17 = 5/8" TYPE "X" G.P. BRD. AT ALL GARAGE WALLS & CEILING FOR I-H.R. SEPARATION
- 18 = WINE RACK, PER OWNER
- 19 = 30" RANGE W/ HOOD, PER OWNER (WINGING 03, MODEL R030220-58)
- 20 = UPPER KITCHEN CABINETS, PER OWNER
- 21 = SHELVES, PER OWNER
- 22 = ELLIPTICAL ARCH OPENING
- 23 = 36" HANDBAIL, PER OWNER
- 24 = LINE OF CEILING CHANGE
- 25 = 200 AMP ELEC. PANEL
- 26 = 12" HIGH HEARTH
- 27 = DOOR ALARM (PART OF POOL ENCLOSURE, SEE NOTE SH. 1-1)
- 28 = WATER HEATER IN METAL ENCLOSURE
- 29 = WATER HEATER IN METAL ENCLOSURE
- 30 = CONC. LANDING
- 31 =

- 32 = HARD WIRE SMOKE DETECTOR W/ BATTERY BACK-UP
- 33 = PROVIDE CARBON MONOXIDE ALARM AS REQUIRED
- 34 = EXHAUST FAN, SEE ELEC. PLAN

A LANDING SHALL BE PROVIDED AT THE TOP AND BOTTOM OF STAIRWAYS, EXCEPTION: FOR TOP OF AN INTERIOR FLIGHT OF STAIRS IN AN ENCLOSED GARAGE (R331.7.5).

THIS SHALL BE A FLOOR OR LANDING ON EACH SIDE OF THE DOOR WHICH IS AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR EXCEPT: THE DOOR MAY OPEN OVER A LANDING NOT MORE THAN 7/8" BELOW THE TOP OF THE THRESHOLD PROVIDED THE DOOR DOES NOT SWING OVER THE LANDING. (CRC 5311.3)

LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NOT LESS THAN 36". (CRC 5311.3)

CARBON MONOXIDE ALARMS ARE REQUIRED TO BE INSTALLED FOR A PERMIT FOR ALTERATIONS, REPAIRS, OR ADDITIONS EXCEEDING \$1,000. SMOKE DETECTORS SHALL BE LOCATED IN EACH SLEEPING ROOM, HALLWAY OR AREA OF ACCESS TO A SLEEPING ROOM AND ON EACH STORY AND BASEMENT FOR DWELLINGS WITH MORE THAN ONE STORY. (CRC R331.4)

HARDWIRED SMOKE ALARMS TO BE COMPLIANT WITH UL 217 (NFPA 72, 9072.110)

ATTIC AREA HAVING A CLEAR HEADROOM OF 30" MUST HAVE AN ACCESS OPENING (20" x 30" MIN.) (R807.1)

NEW OR REPLACEMENT WATER HEATERS SHALL BE STRAPPED TO THE WALL IN TWO PLACES, ONE IN THE UPPER 1/3 OF THE TANK AND ONE IN THE LOWER 1/3 OF THE TANK.

THE LOWER POINT SHALL BE A MINIMUM OF 4 INCHES ABOVE THE CONTROLS.

THE COMBINED FLOW RATE OF MULTIPLE SHOWERS SERVING A SINGLE SHOWER SHALL NOT EXCEED THE MAXIMUM FLOW RATES SPECIFIED IN THE 208 COLUMN CONTAINED IN TABLE 4.303.2 (CBCS 4.303.2)

EVERY DWELING SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A MINIMUM ROOM TEMPERATURE OF 68F AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS. (CRC R303.8)

FIRELOOKING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R302.11. FIRELOOKING MATERIALS SHALL CONSIST OF ONE LISTED IN SECTION R302.11.1.

NEWLY INSTALLED BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE TO THE OUTSIDE OF THE BUILDING. NEWLY INSTALLED BATHROOM EXHAUST FANS, NOT FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. (R306.1)

GLAZING IN ENCLOSURES FOR OR WALLS FACING HOT TUBS, WHIRPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE SAFETY GLAZING CONFORMING TO THE HUMAN IMPACT LOADS OF SECTION R308.3

PROVIDE 15" MIN. BETWEEN THE CENTER OF WATER CLOSET TO ANY SIDE WALL. (CRC 407.6)

PROVIDE 24" CLEAR SPACE IN FRONT OF ANY WATER CLOSET. (CRC 407.6)

BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED NATURAL VENTILATION AND WITH MECHANICAL VENTILATION CAPABLE OF 50 CFM EXHAUSTED DIRECTLY TO THE OUTSIDE. (R303.3)

EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTIONS R303.1 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 6 FOOT-CANDELS OVER THE AREA OF THE ROOM AT A HEIGHT OF 30" ABOVE THE FLOOR LEVEL. (R303.1)

PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SPRAWL DISPOSAL SYSTEM (R306.3)

KITCHEN SINKS, LAVATORIES, BATHROOMS, SHOWERS, BOILERS, LAUNDRY TUBS AND WASHING MACHINE OUTLETS SHALL BE PROVIDED WITH HOT AND COLD WATER AND CONNECTED TO AN APPROVED WATER SUPPLY. (R306.4)

BATHROOMS AND SHOWER FLOORS SHALL HAVE BATHTUBS WITH A SHOWERHEAD AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NON-SLIP SURFACE. SUCH WALLS SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6' ABOVE THE FLOOR. (R307.2)

PROVIDE ULTRA LOW FLUSH WATER CLOSERS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS AND TOILETS MUST BE ADAPTED FOR LOW WATER CONSUMPTION.

PROVIDE 70" HIGH NON-ABSORBENT WALL ADJACENT TO SHOWER AND APPROVED SHATTER-RESISTANT MATERIALS FOR SHOWER ENCLOSURE. (R308)

STAIRWAYS SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES.

STAIRWAYS SHALL HAVE A MINIMUM HEADROOM CLEARANCE OF 80 INCHES MEASURED VERTICALLY FROM A LINE CONNECTING THE EDGE OF THE NOSINGS SUCH HEADROOM SHALL BE MAINTAINED ABOVE THE STAIRWAY TO THE POINT WHERE THE LINE INTERSECTS THE LANDING BELOW, ONE TREAD DEPTH BEYOND THE BOTTOM RISK, THE MINIMUM CLEARANCE SHALL BE MAINTAINED THE FULL WIDTH OF THE STAIRWAY AND LANDING.

THE MAXIMUM RISER HEIGHT SHALL BE 7.75 INCHES; THE MINIMUM TREAD DEPTH SHALL BE 10 INCHES.

THIS SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH OF LANDINGS SHALL NOT BE LESS THAN THE WIDTH OF STAIRWAYS THEY SERVE.

EVERY LANDING SHALL HAVE A MINIMUM DIMENSION MEASURED IN THE DIRECTION OF TRAVEL EQUAL TO THE WIDTH OF THE STAIRWAY, IN GROUP R-3 OCCUPANCIES, A FLOOR OR LANDING IS NOT REQUIRED AT THE TOP OF AN INTERIOR FLIGHT OF STAIRS, INCLUDING STAIRS IN AN ENCLOSED GARAGE, PROVIDED A DOOR DOES NOT SWING OVER THE STAIRS.

HANDRAIL HEIGHT, MEASURED ABOVE STAIR TREAD NOSINGS, OR FINISH SURFACE OF RAMP SLOPE SHALL BE UNIFORM, NOT LESS THAN 34 INCHES (864 MM) AND NOT MORE THAN 38 INCHES.

HANDRAIL-GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NAIL, POSTS OR OTHER OBSTRUCTIONS.

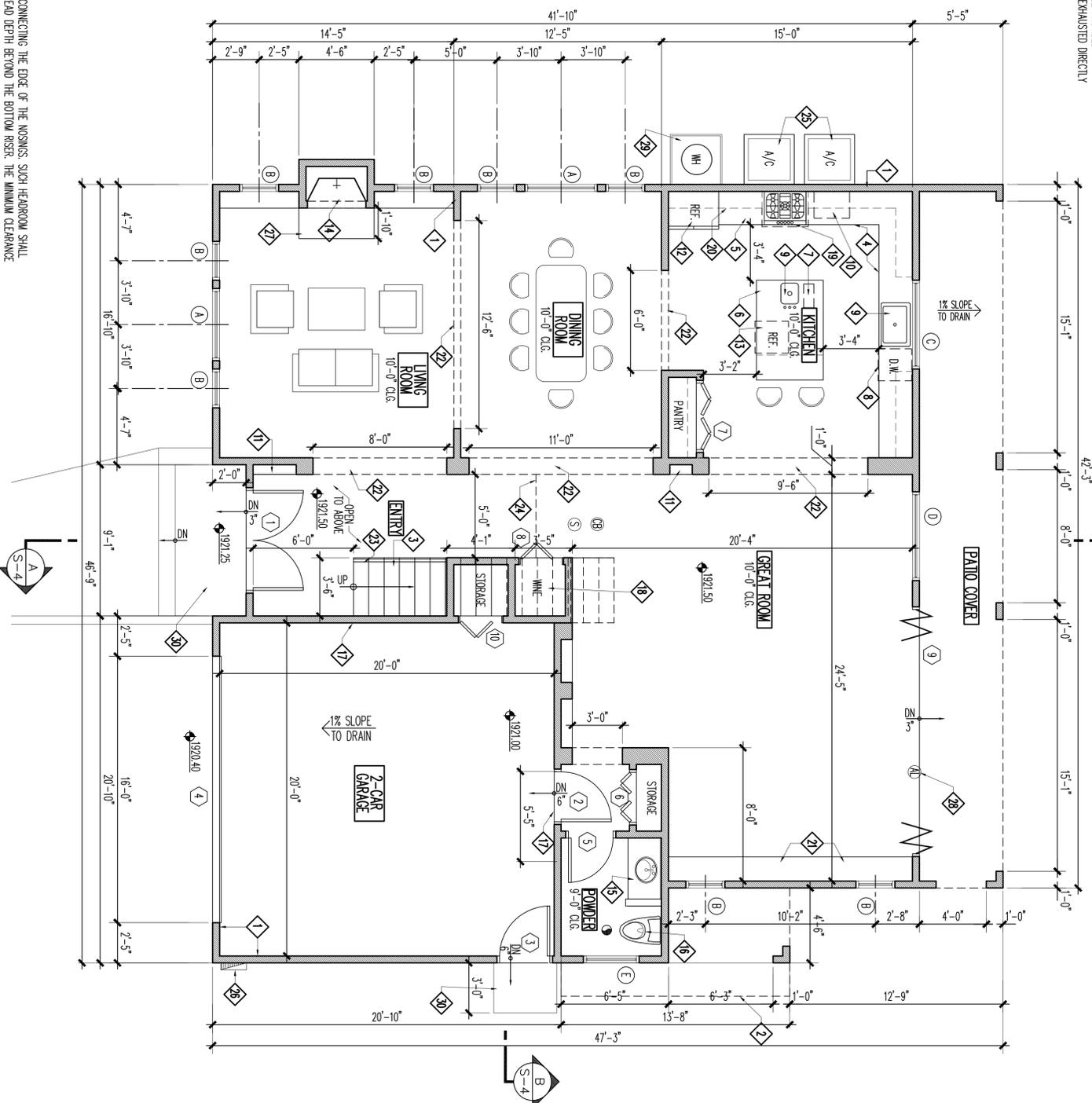
HANDRAILS WITH A CIRCULAR CROSS-SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1.25 INCHES AND NOT GREATER THAN 2 INCHES OR SHALL PROVIDE EQUIVALENT GRASPABILITY.

OPEN GUARDS SHALL HAVE BALUSTERS OR ORNAMENTAL PATTERNS SUCH THAT A 4-INCH-DIAMETER SPHERE CANNOT PASS THROUGH ANY OPENING.

ALL STAIRWAYS SHALL HAVE AN ILLUMINATION LEVEL ON TREAD RINGS OF NOT LESS THAN 1 FOOT-CANDE (1 LUX).

PLUMBING FIXTURES MUST MEET REQUIREMENTS FROM CBCS 4.303

FIXTURE TYPE	FLOW RATE	MAX. FLOW RATE AT > 20% REDUCTION
SHOWERSHEADS	2.5 GPM @ 80 PSI	2.0 GPM @ 80 PSI
LAVATORY FAUCETS, RESIDENTIAL	2.2 GPM @ 60 PSI	1.5 GPM @ 60 PSI
KITCHEN FAUCETS	2.2 GPM @ 60 PSI	1.8 GPM @ 60 PSI
GRANITY TANK-TYPE WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
FLOWSHOWER TANK WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
FLOWSHOWER TANK WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
ELECTROCHEMICAL HYDRAULIC W.C.	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
URINALS	1.0 GALLONS/FLUSH	0.5 GALLONS/FLUSH



**PROPOSED FIRST FLOOR PLAN**

SCALE: 1/4" = 1'-0"



DRAWN: M.D.  
CHECKED: R. MATOLA  
DATE: 05/07/14  
SCALE: 1/4" = 1'-0"  
JOB: 12--  
FILENAME: MAKABI FLORES  
SHEET: A-1  
OF 1 SHEETS

2-STORY CUSTOM RESIDENCE  
FOR: MAYRA FLORES & EDWARD MAKABI  
ADDRESS: 540 THRIFT ROAD, MALIBU, CA. 90265

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REVISIONS

NO.	DATE	DESCRIPTION

DOOR SCHEDULE				
S/NL	SIZE	TYPE	THK.	REMARKS
1	2'-8" x 8'-0"	SOLID CORE	1-3/4"	INTERIOR DOOR, PER OWNER
2	2'-6" x 8'-0"	FRENCH DOOR	-	"MILGARD" (LOW-E) GLASS, TEMP'D.
3	6'-0" x 8'-0"	SLIDING	-	CLOSET DOOR, PER OWNER
4	DBL. 2'-6" x 8'-0"	SOLID CORE	-	INTERIOR DOOR, PER OWNER
5				
6				

NOTE: CONTRACTOR TO FULLY REVIEW I-24 GLAZING REQUIREMENTS PRIOR TO ORDERING DOORS AND WINDOWS

WINDOW SCHEDULE						
S/NL	SIZE	TYPE	GLASS	U-F-FACTOR	SHGC	REMARKS
F	5'-0" x 4'-0"	PICTURE	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
G	2'-0" x 1'-0"	SLIDER	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
H	3'-0" x 6'-0"	CASEMENT	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
I	2'-6" x 6'-0"	SINGLE HUNG	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
J	2'-0" x 2'-0"	SLIDER	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
K	4'-0" x 4'-0"	FIXED	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
L	4'-0" x 2'-0"	SLIDER	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
M	2'-0" x 4'-0"	SINGLE HUNG	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
N	3'-0" x 3'-0"	SLIDER	DUAL	0.340	0.33	"MILGARD" (LOW-E) GLASS, TEMP'D.
O	1'-6" x 8'-0"	SKRITITE	DUAL	0.340	0.33	FIXED, NO BRD., PLY, CEM., TEMP'D.

NOTE: CONTRACTOR TO FULLY REVIEW I-24 GLAZING REQUIREMENTS PRIOR TO ORDERING DOORS AND WINDOWS

THIS PROJECT IS LOCATED WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONE. ALL WINDOWS AND GLAZED DOORS ARE TEMPERED GLASS.

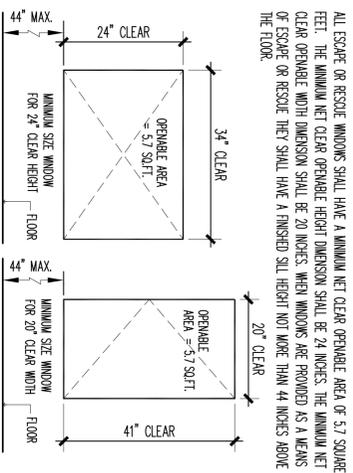
FLOOR PLAN NOTES:

- 1 = 2x STUD WALLS PER PLAN
- 2 = WOOD STAIRCASE PER PLAN
- 3 = BATHROOM SINK UNIT, PER OWNER
- 4 = 1.28 G.P.F. WATER CLOSET, PER OWNER
- 5 = TUB/SHOWER COMBO W/ TEMP'D. GLASS, PER OWNER
- 6 = TEMPERED GLASS SHOWER ENCLOSURE
- 7 = JACOZZI TUB, PER OWNER
- 8 = WASHER & DRYER, PER OWNER
- 9 = UTILITY SINK, PER OWNER
- 10 = POLE & SHELVES, PER OWNER
- 11 = HARD WIRED SMOKE DETECTOR W/ BATTERY BACK-UP
- 12 = PROVIDE CARBON MONOXIDE ALARM AS REQUIRED
- 13 = EXHAUST FAN, SEE ELECT. PLAN
- 14 = 36" H/HANDRAIL, PER OWNER
- 15 = 42" GUARDRAIL, PER OWNER
- 16 = ROOF LINE FOR FIRST FLOOR
- 17 = FLOWER SHELVES, PER OWNER
- 18 = NEW "DEX-O-TEX" SIP RESISTANT SURFACE, IJC, ESR-1757 DECKING OR 1/2" SQ. SIP RESISTANT ITALIAN PAPERS W/ 1% SLOPE (CLASS "A")
- 19 = ATTIC ACCESS HANDH
- 20 = ATTIC MOUNTED HVAC LOCATION (SEE TRUSS DESIGN), PLATFORM PER DTL. 2/S-4

(SEE NOTES SH. A-1)

VERY HIGH SEVERITY ZONE

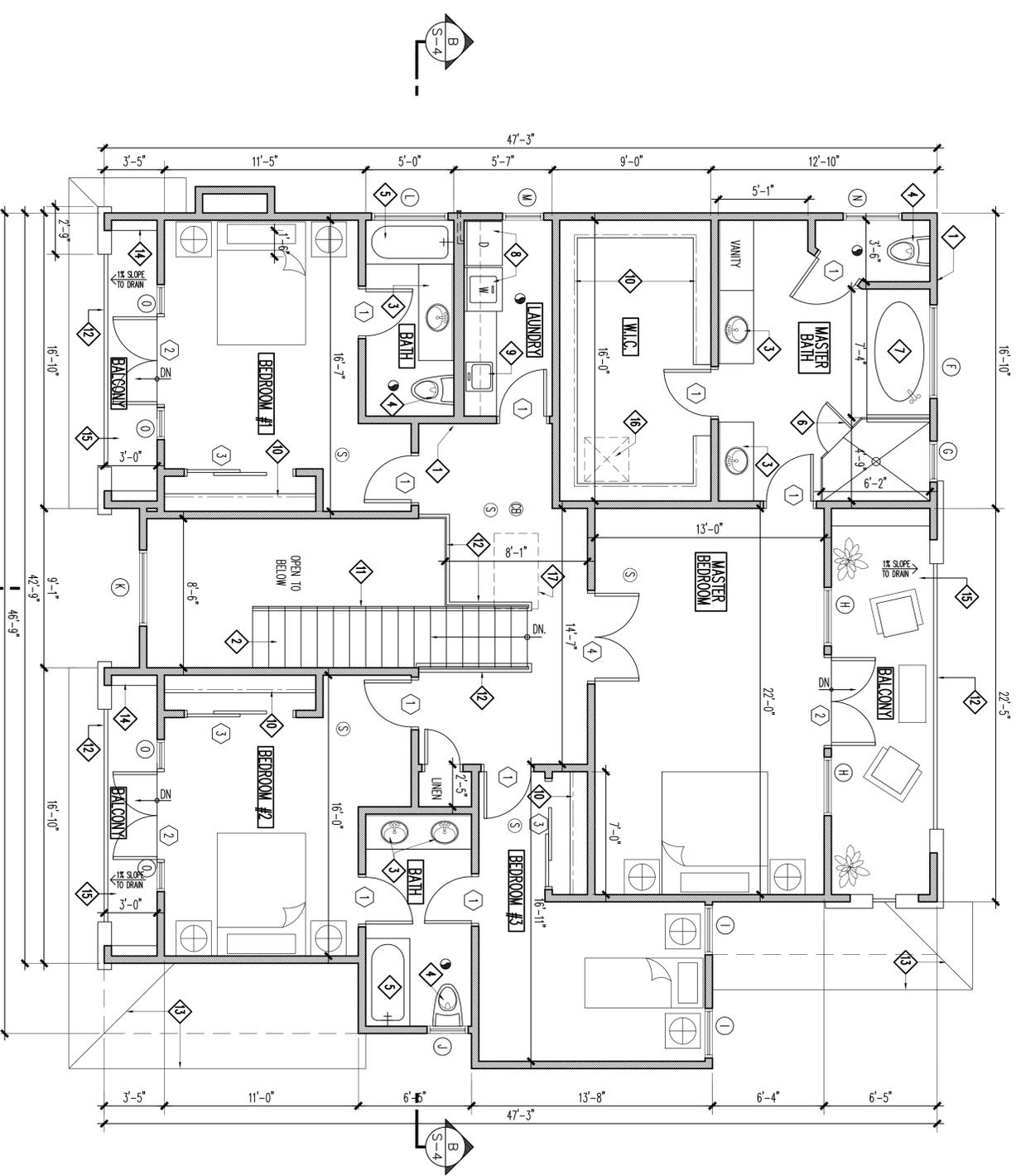
CLASS "A" ROOF COVERING IS REQUIRED FOR ALL BUILDINGS. WOOD SHAKES AND SHINGLES ARE NOT PERMITTED. (707/4, 1905)  
 VALLEY FLASHINGS SHALL BE NOT LESS THAN 0.019" (No.26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL INSTALLED OVER A MINIMUM 3/8" WIDE UNDERLAMENT  
 CONSISTING OF ONE LAYER OF No. 72 ASTM G16 SHEET RUNNING THE FULL LENGTH OF THE VALLEY (704A.1.3)  
 ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER (704A.1.5)  
 ROOF /ATTIC/EXTERIOR WALL VENTS SHALL RESIST THE INTRUSION OF FLAME AND EMBERS INTO THE ATTIC AREA OF THE STRUCTURE, OR SHALL BE PROTECTED BY  
 CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/4" OPENINGS OR ITS EQUIVALENT. VENTS SHALL NOT BE INSTALLED IN EAVES AND CORNICES (704A.2.1, 704A.3.2.1,  
 704A.2.2, 707/2.3)  
 EAVES AND GUTTERS SHALL MEET THE REQUIREMENTS OF SPM 12-7A-3 OR SHALL BE PROTECTED BY IGNITION-RESISTANT MATERIALS OR NONCOMBUSTIBLE CONSTRUCTION ON THE  
 EXPOSED UNDERSIDE (704A.2.3)  
 EXTERIOR WALLS SHALL BE APPROVED NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL, HEAVY TIMBER, OR LOG WALL CONSTRUCTION OR SHALL PROVIDE PROTECTION FROM THE  
 INTRUSION OF FLAMES AND EMBERS IN ACCORDANCE WITH STANDARD SPM 12-7A-1 (704A.3.1)  
 EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF FOUNDATION TO THE ROOF, AND TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF  
 OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE (704A.3.2)  
 EXTERIOR WINDOWS, WINDOW WALLS, GLAZED DOORS, AND GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATING-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE, OR  
 GLASS BLOCK UNITS, OR HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO ASTM E 2010, OR CONFORM TO THE PERFORMANCE  
 REQUIREMENTS OF SPM 12-7A-2 (704A.3.2.2)  
 EXTERIOR DOOR ASSEMBLIES SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF STANDARD SPM 12-7A-1 OR SHALL BE APPROVED NONCOMBUSTIBLE CONSTRUCTION, OR SOLID  
 CORE WOOD HAVING STILES AND RAJLS NOT LESS THAN 1-3/8" THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 1-1/4" THICK, OR SHALL HAVE A FIRE-RESISTANCE  
 RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO ASTM E 2074, (EXCEPTION: NONCOMBUSTIBLE OR EXTERIOR FIRE-RETARDANT TREATED, WOOD VEHICLE ACCESS  
 DOORS) (704A.3.2.3)  
 BUILDINGS SHALL HAVE ALL UNDERLOOR AREAS COMPLETELY ENCLOSED TO THE GRADE WITH CONSTRUCTION AS REQUIRED FOR EXTERIOR WALLS (704A.2.2, 707/1)  
 ALL UTILITIES, PRES. FIRMANCES, WATER HEATERS OR OTHER MECHANICAL DEVICES LOCATED IN AN EXPOSED UNDER-FLOOR AREA OF A RESIDENTIAL BUILDING



ALL ESCAPE OR RESCUE WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPERABLE AREA OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPERABLE HEIGHT DIMENSION SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPERABLE WIDTH DIMENSION SHALL BE 20 INCHES. WHEN WINDOWS ARE PROVIDED AS A MEANS OF ESCAPE OR RESCUE THEY SHALL HAVE A FINISHED SILL HEIGHT NOT MORE THAN 44 INCHES ABOVE THE FLOOR.

WATER HEATERS SHALL BE STRAPPED TO THE WALL IN TWO PLACES  
 ONE IN THE UPPER 1/3 OF THE TANK AND ONE IN THE LOWER 1/3 OF THE TANK.  
 THE LOWER POINT SHALL BE A MINIMUM OF 4 INCHES ABOVE THE CONDUITS.  
 SHOWER COMPARTMENTS AND WALLS ABOVE BATHINGS WITH INSTALLED SHOWER HEADS SHALL BE FINISHED WITH A SMOOTH, NONABSORBENT SURFACE TO A HEIGHT NOT LESS THAN 6 FT. ABOVE THE DRAIN FLUET. (IRC E307.2)  
 THE COMBINED FLOW RATE OF MULTIPLE SHOWERHEADS SERVING A SINGLE SHOWER SHALL NOT EXCEED THE MAXIMUM FLOW RATES SPECIFIED IN THE 2021 CODES CONTAINED IN TABLE 4.303.2 (CORSIC 4.303.2)  
 EVERY DWELLING SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A MINIMUM ROOM TEMPERATURE OF 68°F AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS. (IRC R303.8)  
 FREEDOMING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R302.11. FREEDOMING MATERIALS SHALL CONSIST OF ONE LISTED IN SECTION R302.11.  
 CLOTHES DRYER MOISTURE EXHAUST DUCT MUST BE 4" IN DIAMETER AND LENGTH IS LIMITED TO 14', WITH 2 ELBOWS. THE DUCT LENGTH SHALL BE REDUCED BY 2' FOR EVERY ELBOW IN EXCESS OF TWO.  
 ALL SHOWERS AND TUB-SHOWERS SHALL HAVE A PRESSURE BALANCE, THERMOSTATIC MIXING VALVE, OR A COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING TYPE VALVE.

LOCAL EXHAUST BATHROOM VENTILATION RATE SUMMARY BATHROOM FAN FLOW = 50 CFM (# OF BATHROOMS - 4) DUCT SIZE = 5 IN. MAX. ALLOWABLE DUCT LENGTH = NO LIMIT	LOCAL EXHAUST KITCHEN VENTILATION RATE SUMMARY KITCHEN FAN FLOW = 100 CFM (# OF KITCHENS - 1) DUCT SIZE = 5 IN. MAX. ALLOWABLE DUCT LENGTH = 35 FT.
WHOLE BUILDING VENTILATION RATE SUMMARY Q <sub>ten</sub> = 0.01(A <sub>floor</sub> ) + 7.5(Nb+1) 0.01(2261) + 7.5(4+1) = 22.61 + 37.5 = 60.11 CONTINUOUS FAN FLOW = 80 CFM DUCT SIZE = 5 IN. MAX. ALLOWABLE DUCT LENGTH = 70 FT.	



PROPOSED SECOND FLOOR PLAN



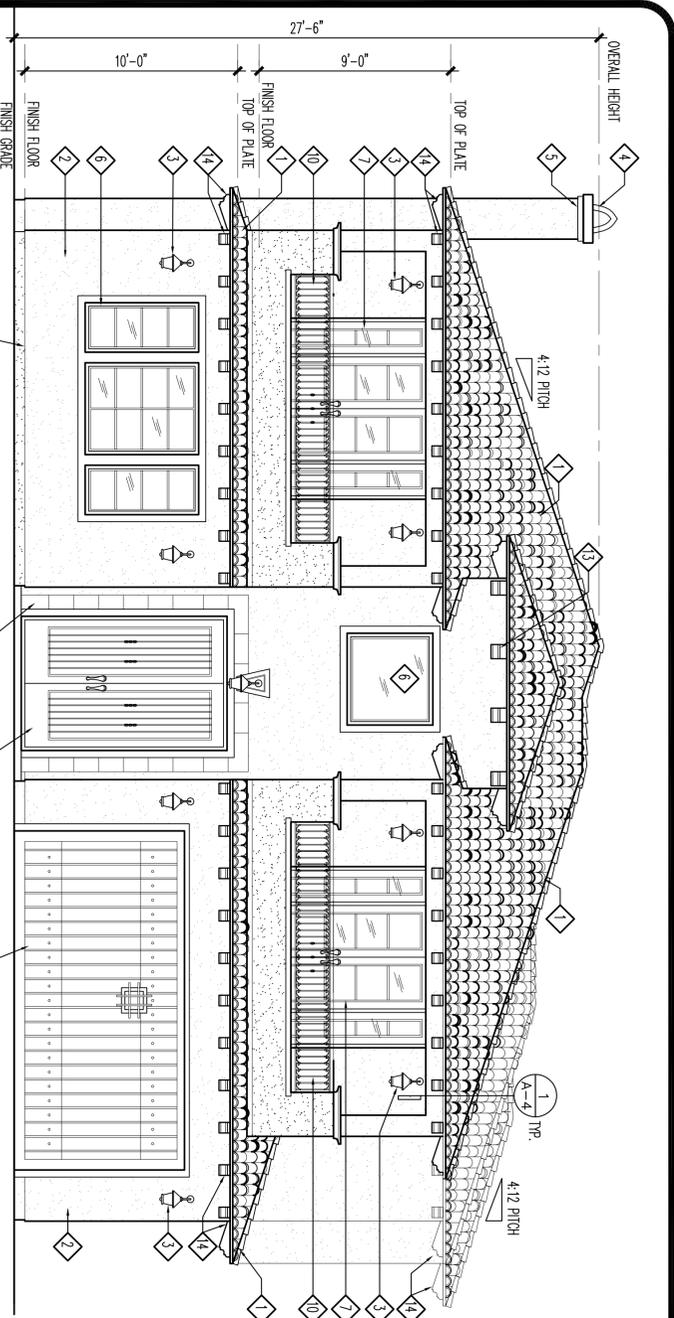
SCALE: 1/4"=1'-0"

DRWING	MP
CHECKED	R. MATOIA
DATE	05/07/14
SCALE	1/4" = 1'-0"
JOB	12--
FILENAME	MAKABI FLORES
SHEET	A-2

2-STORY CUSTOM RESIDENCE  
 FOR: MAYRA FLORES & EDWARD MAKABI  
 ADDRESS: 540 THRIFT ROAD, MALIBU, CA. 90265

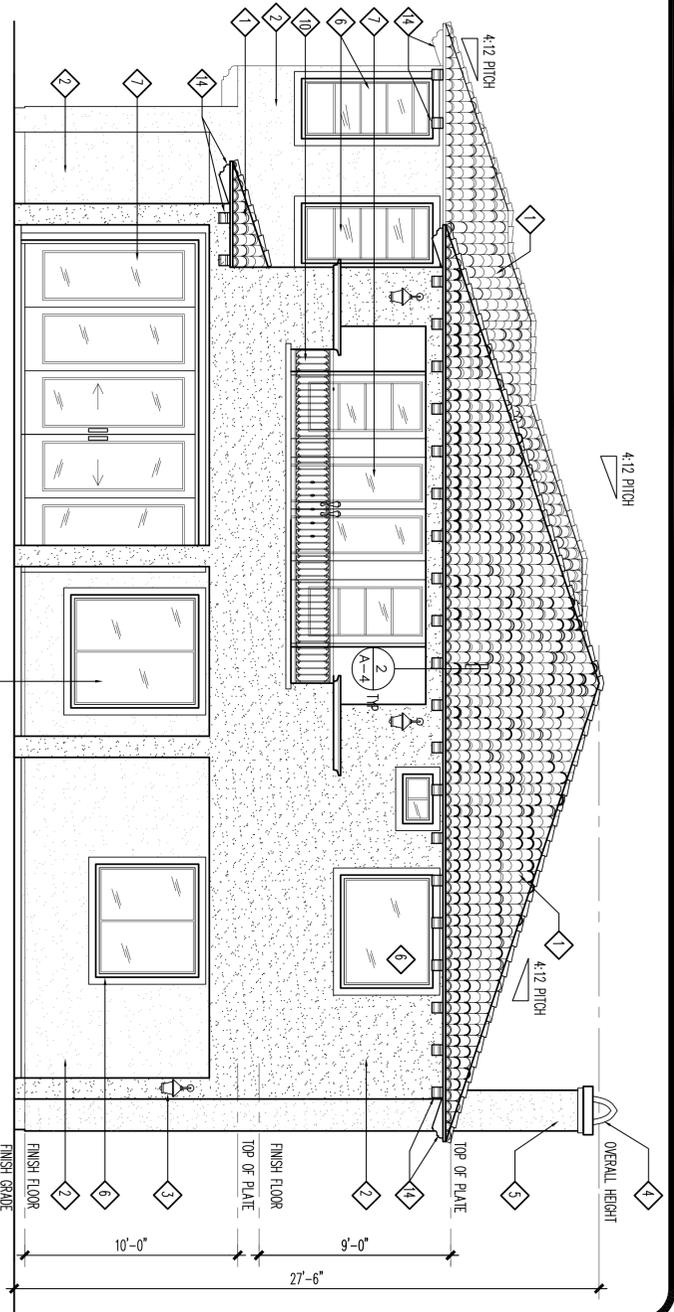
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REVISIONS	BY

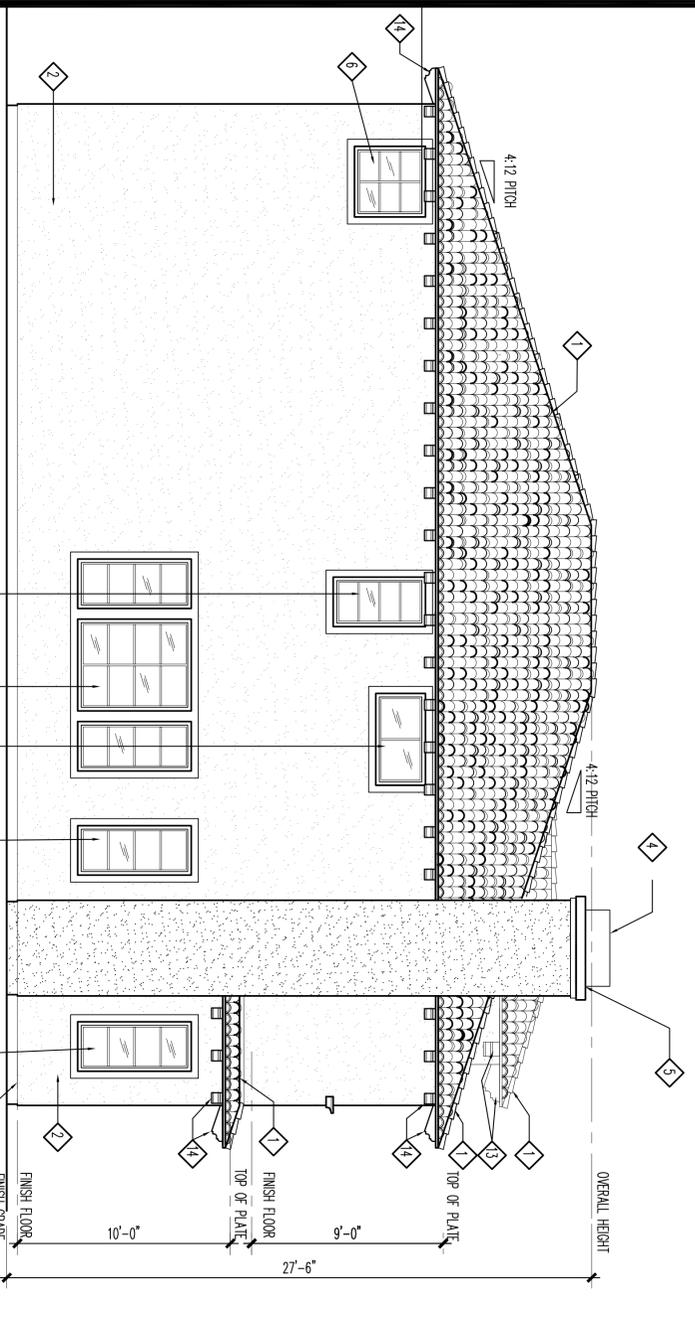


WEST SIDE ELEVATION

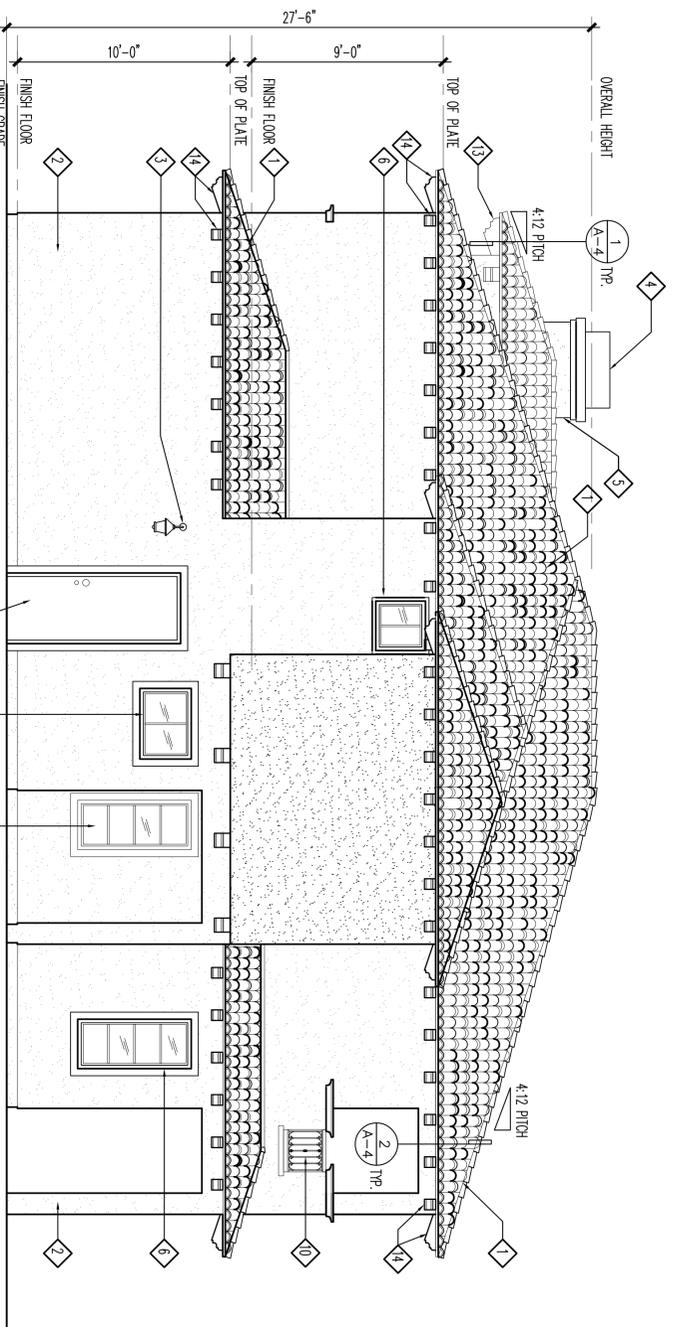
NOTE: ALL EXTERIOR WALL COVERINGS ARE NONCOMBUSTIBLE MATERIAL (7/8" STUCCO)  
 UNDER EAVE VENTS ARE NOT ALLOWED (SEE ROOF PLAN FOR VENTING)  
 EXTERIOR PORCH/BALCONY CEILINGS ARE PROTECTED W/ NONCOMBUSTIBLE MATERIAL (7/8" STUCCO)  
 EXPOSED ROOF DECK UNDER EAVES ARE PROTECTED W/ 5/8" TYPE X LAYER UNDER TAG CEILING BOARDS  
 EXPOSED CORBEL TAILS ARE 6x WOOD MATERIAL



EAST SIDE ELEVATION



SOUTH SIDE ELEVATION



NORTH SIDE ELEVATION

EXTERIOR ELEVATION NOTES:

- 1 = MONER CONCRETE S-TILES (CQ# ESR-1647 (CLASS "A"), ANY STANDARD COLOR PER OWNER
- 2 = SAND FINISH 7/8" STUCCO OVER BUILDING PAPER AS REQUIRED
- 3 = DECORATIVE WEATHER PROOF EXTERIOR LIGHTS, PER OWNER
- 4 = APPROVED SPARK ARRESTOR, PER OWNER
- 5 = CHIMNEY SHALL EXTEND 24" HIGHER THAN ANY ROOF WITHIN 10'-0" TYP.
- 6 = WINDOWS PER PLAN
- 7 = DOORS PER PLAN
- 8 = ENTRY DOOR, PER OWNER

SOUTH SIDE ELEVATION

- 9 = SECTIONAL, ROLL-UP GARAGE DOOR, PER OWNER
- 10 = NEW 42" HIGH BLACK OR BRONZED DECORATIVE WROUGHT IRON RAILINGS LESS THAN 4' CLEAR. SPHERE SHALL NOT PASS THROUGH ANY OPENING WITHIN ANY PORTION OF THE DECORATIVE RAILING
- 11 = 8" PRECAST CONCRETE TRIM
- 12 = A CORROSION RESISTANT WEEP SCREED IS REQUIRED BELOW THE STUCCO A MINIMUM OF 4" ABOVE EARTH OR 2" ABOVE PAVED AREA
- 13 = 8" x 9" CORBEL BEAMS, PER PLAN
- 14 = 6" x 6" CORBEL BEAMS, PER PLAN

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/50 OF THE AREA OF THE ENCLOSED SPACE UNLESS PERMITTED OTHERWISE PER AREA IS PROVIDED AT LEAST 3 FEET ABOVE EAVE OR CORNER VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY VENTS LOCATED IN LOWER PORTION

A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT SHALL BE ATTACHED TO THE STUDS OR SHEATHING, WITH FLASHING AS DESCRIBED IN SECTION R703.2, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENER. (CRC R703.1 & R703.2)  
 ALL WALL COVERINGS SHALL BE SECURELY FASTENED IN ACCORDANCE WITH TABLE R703 OR WITH OTHER APPROVED ALUMINUM, STAINLESS STEEL, ZINC-COATED OR OTHER APPROVED CORROSION-RESISTIVE FASTENERS. (CRC R703.4)  
 A MINIMUM 2x GAGE, CORROSION-RESISTANT WEEP SCREED IS REQUIRED BELOW THE STUCCO A MINIMUM OF 4" ABOVE EARTH OR 2" ABOVE PAVED AREA. (CRC R703.6.2.1)  
 THE VALLEY FLASHING SHALL EXTEND AT LEAST 1" FROM THE CENTERLINE EACH WAY AND HAVE A SPLASH DIVERTER RIB NOT LESS THAN 1" HIGH AT THE FLOW LINE FORMED AS PART OF THE FLASHING. SECTIONS OF FLASHING SHALL HAVE AND END LAP OF NOT LESS THAN 4". FOR ROOF SLOPES OF 3 UNITS VERTICAL IN 12 UNITS HORIZONTAL AND OVER, THE VALLEY FLASHING SHALL HAVE A 36" WIDE UNDERLAPMENT OF EITHER ONE LAYER OF THE UNDERLAPMENT RUNNING THE FULL LENGTH OF THE VALLEY, OR A SELF-ADHERING POLYMER-MODIFIED BITUMEN SHEET IN ADDITION TO OTHER REQUIRED UNDERLAPMENT. (CRC R905.3)

DRAWN: MP  
 CHECKED: R. MAJOLA  
 DATE: 05/07/14  
 SCALE: 1/4" = 1'-0"  
 JOB: 12--  
 FILENAME: MAKABI FLORES  
 SHEET: A-3  
 OF - SHEETS

2-STORY CUSTOM RESIDENCE  
 FOR: MAYRA FLORES & EDWARD MAKABI  
 ADDRESS: 540 THRIFT ROAD, MALIBU, CA. 90265

**R.M. DESIGNS**  
 RESIDENTIAL AND COMMERCIAL PLANNERS  
 2205 FIRST ST. SUITE 106  
 SIMI VALLEY, CA. 93065  
 (805) 526-3916  
 (805) 526-3996 FAX.  
 OFFICE@RM-DESIGNS.NET  
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REVISIONS	BY



GENERAL NOTES:

- 1. All grading and construction shall conform to the 2011 County of Los Angeles Building Codes and the State Model Water Efficiency Landscape Ordinance unless specifically noted on these plans.
2. Any modifications of or changes to approved grading plans must be approved by the Building Official.
3. No grading shall be started without first notifying the Building Official. A Pre-grading meeting at the site is required before the start of the grading with the following people present: Owner, grading contractor, design civil engineer, soils engineer, geologist, County grading inspector(s) or their representatives, and when required the archeologist or other jurisdictional agencies.
4. Approval of these plans reflect solely the review of plans in accordance with the County of Los Angeles Building Codes and does not reflect any position by the County of Los Angeles or the Department of Public Works regarding the status of any title issues relating to the land on which the improvements may be constructed.
5. All grading and construction activities shall comply with County of Los Angeles Code, Title 12, Section 12.12.030 that controls and restricts noise from the use of construction and grading equipment from the hours of 8:00 PM to 6:30 AM, and on Sundays and Holidays.
6. California Public Resources Code (Section 5097.98) and Health and Safety Code (Section 7050.5) address the discovery and disposition of human remains.
7. The location and protection of all utilities is the responsibility of the Permittee.
8. All export of material from the site must go to a permitted site approved by the Building Official or a legal dumpsite.
9. A copy of the grading permit and approved grading plans must be in the possession of a responsible person and available at the site at all times.
10. Site boundaries, easements, drainage devices, restricted use areas shall be located per construction staking by Field Engineer or licensed surveyor.
11. No grading or construction shall occur within the protected zone of any oak tree as required per Title Chapter 22.56 of the County of Los Angeles Zoning Code.
12. The standard retaining wall details shown on the grading plans are for reference only.
13. A preventive program to protect the slopes from potential damage from burrowing rodents is required per Section J101.8 of the County of Los Angeles Building Code.
14. If grading authorized by this plan is to extend through the rainy season, November 1 Through April 15 of the following year, separate updated plans for erosion control must be submitted prior to October per Section J11.3 of the County of Los Angeles Building Code.
15. Transfer of Responsibility: If the Field Engineer, the Soils Engineer, or the Engineering Geologist of record is changed during technical competence for approval upon completion of the work. It shall be the duty of the permittee to notify the Building Official in writing of such change prior to the recommendation of such grading.

INSPECTION NOTES

- 16. The permittee or his agent shall notify the Building Official at least one working day in advance of required inspections at the following stages of the work.
(a) Pre-Grade - Before the start of any earth disturbing activity or construction.
(b) Initial - When the site has been cleared of vegetation and unapproved fill has been scarified, benched or otherwise prepared for fill.
(c) Rough - When approximate final elevations have been established; drainage terraces, swales and berms installed at the top of the slope; and the statements required in this Section have been received.
(d) Final - When grading has been completed; all drainage devices installed; slope planting established, irrigation systems installed and the As-Built plans, required statements, and reports have been submitted and approved.
17. In addition to the inspection required by the Building Official for grading, reports and statements shall be submitted to the Building Official in accordance with Section J105 of the County of Los Angeles Building Code.
18. Unless otherwise directed by the Building Official, the Field Engineer for an engineered grading projects shall prepare routine inspection reports as required under Section J105.11 of the County of Los Angeles Building Code.
19. All graded sites must have drainage swales, berms, and other drainage devices installed prior to rough grading approval per Section J105.7 of the County of Los Angeles Building Code.
20. The grading contractor shall submit the statement to the grading inspector as required by Section J105.12 of the County of Los Angeles Building Code at the completion of rough grading.
21. Final grading must be approved before occupancy of buildings will be allowed per Section J105 of the County of Los Angeles Building Code.

DRAINAGE NOTES

- 22. Roof drainage must be diverted from graded slopes.
23. Provisions shall be made for contributory drainage at all times.
24. All construction and grading within a storm drain easement are to be done per Private Drain PD No. \_\_\_\_\_ or miscellaneous Transfer Drain MTD No. \_\_\_\_\_.
25. All storm drain work is to be done under continuous inspection by the Field Engineer. Status reports required under note 18 and Section J 105.11 of the County of Los Angeles Building Code shall include inspection information and reports on the storm drain installation.

AGENCY NOTES (Add - Applicable Notes)

- 26. An encroachment permit from (County of Los Angeles Department of Public Works) (CAL TRANS) (City of \_\_\_\_\_) is required for all work within or affecting road right of way.
27. An encroachment permit /connection permit is required from the County of Los Angeles Flood Control District for all work within the County of Los Angeles Flood Control District Right of Way.
28. Permission to operate in Very High Fire Hazard Severity Zone must be obtained from the Fire Prevention Bureau or the local Fire Station prior to commencing work.
29. All work within the streambed and areas outlined on grading plans shall conform to:
30. All construction/demolition, grading, and storage of bulk materials must comply with the local AQMD rule 403 for Fugitive Dust. Information on rule 403 is available at AQMD's website http://www.aqmd.com.

All drawings prepared by SASSAN Geosciences, Inc. (SAS) are the exclusive property of SAS and, unless otherwise agreed, SAS shall be deemed the author of them and shall retain all common law, statutory and other reserved rights.

GENERAL GEOTECHNICAL NOTES

- 31. All work must be in compliance with the recommendations included in the geotechnical consultant's report(s) and the approved grading plans and specifications.
32. Grading operations must be conducted under periodic inspections by the geotechnical consultants with monthly inspection reports to be submitted to the Geology and Soils Section.
33. The Soil Engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to be satisfied that the work is being performed in accordance with the plan and applicable Code requirements.
34. Rough grading must be approved by a final engineering geology and soils engineering report.
35. Foundation, wall and pool excavations must be inspected and approved by the consulting geologist and soil engineer, prior to the placing of steel or concrete.
36. Building pads located in cut/fill transition areas shall be over-excavated a minimum of three (3) feet below the proposed bottom of footing.

FILL NOTES

- 37. All fill shall be compacted to the following minimum relative compaction criteria:
a. 90 percent of maximum dry density within 40 feet below finish grade.
b. 93 percent of maximum dry density deeper than 40 feet below finish grade, unless a lower relative compaction (not less than 90 percent of maximum dry density) is justified by the geotechnical engineer.

- The relative compaction shall be determined by A.S.T.M. soil compaction test 01557-91 where applicable: Where not applicable, a test acceptable to the Building Official shall be used.
38. Field density shall be determined by a method acceptable to the Building Official.
39. Sufficient tests of the fill soils shall be made to determine the relative compaction of the fill in accordance with the following minimum guidelines:
40. Sufficient tests of fill soils shall be made to verify that the soil properties comply with the design requirements, as determined by the Soil Engineer including soil types, shear strengths parameters and corresponding unit weights in accordance with the following guidelines:
41. Fill shall not be placed until stripping of vegetation, removal of unsuitable soils, and installation of subdrain (if any) have been inspected and approved by the Soil Engineer.
42. Rock or similar material greater than 12 inches in diameter shall not be placed in the fill unless recommendations for such placement have been submitted by the Soil Engineer and approved in advance by the Building Official.
43. Continuous inspection by the Soil Engineer, or a responsible representative, shall be provided during all fill placement and compaction operations where fills have a depth greater than 30 feet or slope surface steeper than 2:1.
44. Continuous inspection by the Soil Engineer, or a responsible representative, shall be provided during all subdrain installation.
45. All subdrain outlets are to be surveyed for line and elevation.
46. Fill slopes in excess of 2:1 steepness ratio are to be constructed by the placement of soil at sufficient distance beyond the proposed finish slope to allow compaction equipment to be operated at the outer limits of the final slope surface.

PLANTING AND IRRIGATION NOTES:

- 47. Planting and irrigation on graded slopes must comply with the following minimum guidelines:
a. The surface of all cut slopes more than 5 feet in height and fill slopes more than 3 feet in height shall be protected against damage by erosion by planting with grass or groundcover plants.
b. Slopes required to be planted by Section J110.3 shall be provided with an approved system of irrigation that is designed to cover all portions of the slope.
48. The planting and irrigation systems shall be installed as soon as practical after rough grading.
49. Landscape irrigation system shall be designed and maintained to prevent spray on structures.
50. Prior to rough grade approval this project requires a landscape permit. Landscape plans in compliance with the "Model Water Efficient Landscape Ordinance" Title 23, Chapter 2.7 of California Code of Regulations (AB 1831) must be submitted to the Department of Public Works, Land Development Division, 900 S. Fremont Ave, Alhambra - 3RD Floor, CA 91803 (626) 458-4921.

BEST MANAGEMENT PRACTICE NOTES:

- 1. Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
2. Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses or wind.
3. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
4. Excess or waste concrete may not be washed into the public way or any other drainage system.
5. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
6. Sediments and other materials may not be tracked from the site by vehicle traffic.
7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
8. As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name \_\_\_\_\_ (Owner or authorized agent of the owner)
Signature \_\_\_\_\_ Date \_\_\_\_\_ (Owner or authorized agent of the owner)

PROJECT INFORMATION:

(General Information)

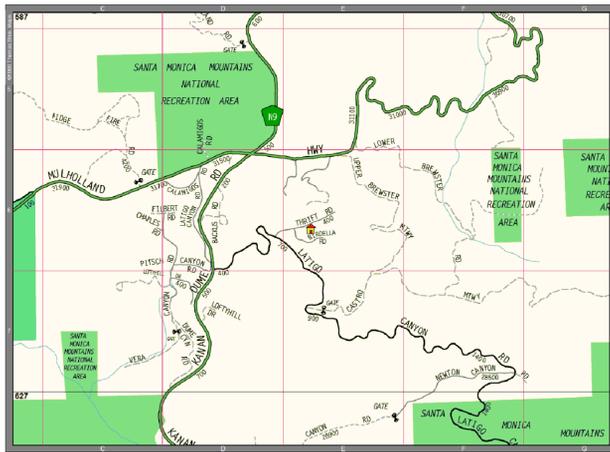
- Grading Permit Application No. GR \_\_\_\_\_ 121128003 \*
Earthwork Volumes Cut \_\_\_\_\_ 70.63(cy), Fill \_\_\_\_\_ 70.19(cy)
Over Excavation/ Alluvial Removal & Compaction \_\_\_\_\_ 32.3(cy)
Export \_\_\_\_\_ (cy), Export Location: \_\_\_\_\_ N/A
Total Disturbed Area \_\_\_\_\_ 0.035(Acres) \*
Total Proposed Landscape Area \_\_\_\_\_ 8,152 Square Feet \*
Total Turf Area \_\_\_\_\_ 13% (Percent of Total Proposed Landscaping) \*
Total Drought Tolerant Landscaping Area \_\_\_\_\_ 48% (Percent of Total Proposed Landscaping) \*
Pre-Development Impervious area \_\_\_\_\_ 0.000(Acres) \*
Post-Development Impervious area \_\_\_\_\_ 0.017(Acres) \*
Waste Discharge Identification Number (WDID #) \_\_\_\_\_ N/A
Construction & Demolition Debris Recycling and Reuse Plan (RPP ID) \_\_\_\_\_ 102813-100

(Property Information)

- Property Address \_\_\_\_\_ 540 Thrift Rd, Los Angeles County (if exist) \*
Tract / Parcel Map No. \_\_\_\_\_ Track 10595 Lot / Parcel No. \_\_\_\_\_ Lot 16
Property Owner \_\_\_\_\_ Eddie Makabi \*
Assessors ID Number(s) \_\_\_\_\_ 4464-012-016\*

(Zoning, Regional Planning, and other Agency Information)

- Property Zoning \_\_\_\_\_
Intended Land Use: \_\_\_\_\_ Single Family Residence\*
(For proposed graded areas - i.e. ... Single Family Residence )
Certificate of Compliance: CC NO. \_\_\_\_\_
Plot Plan Number: PP NO. \_\_\_\_\_
Conditional Use Permit CUP NO. \_\_\_\_\_ Expiration Date: \_\_\_\_\_
Oak Tree Permit Number: OTP NO. \_\_\_\_\_ 2013-00019 Expiration Date: \_\_\_\_\_ April 18th 2015
Community Standards District: \_\_\_\_\_
California Coastal Commission Area: \_\_\_\_\_ Yes \_\_\_ X \_\_\_ No Approved volume: \_\_\_\_\_ (cy)
Coastal Development Permit CDP \_\_\_\_\_ Expiration Date: \_\_\_\_\_
Fish & Game, Army Corp of Engineers, Regional Water Control Board, AQMD & Other Agency Permits should be added as applicable. (Permit Number \_\_\_\_\_ N/A, Expiration Date \_\_\_\_\_)
Note: Items marked \* are required on all grading plan.



VICINITY MAP

Best Management Practice Notes (BMP Notes) to be added to all Grading Plans

BEST MANAGEMENT PRACTICE NOTES:

- 1. Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
2. Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses or wind.
3. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
4. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters.
5. Excess or waste concrete may not be washed into the public way or any other drainage system.
6. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
7. Sediments and other materials may not be tracked from the site by vehicle traffic.
8. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
9. As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name \_\_\_\_\_ (Owner or authorized agent of the owner)
Signature \_\_\_\_\_ Date \_\_\_\_\_ (Owner or authorized agent of the owner)

SOILS ENGINEER'S CERTIFICATE

This plan has been reviewed by SASSAN Geosciences, Inc. (SAS) and found to be in conformance with the recommendations outlined in the reports
Dated: 10-29-12
File No.(s): 2MAK129
By: SASSAN Geosciences, Inc.
Date: 05-05-2014

NOTE: SAS make no representation to the accuracy of dimensions, measurements, or calculations of any portion of the design.



NOTES: ALL WORK TO OAK TREES SHALL BE IN ACCORDANCE TO THIS PROJECTS 'OAK TREE REPORT' BY TREES, ETC. (RICHARD IBARRA, OAK TREE CONSULTANT), AS DATED AUGUST 8, 2013.

Table with 2 columns: REVISION, SAS. Rows show dates from 03-18-2013 to 05-05-2014.

OWNER
Mr. EDDIE MAKABI
5905 BECKFORD AVENUE
TARZANA, CA 91356
Tel (818) 645-4160

CIVIL ENGINEER
SASSAN Geosciences Inc.
1290 N Lake Avenue Suite 204
Pasadena, CA 91104-2869
Tel (626) 345-1819
Fax (626) 345-1820

SOILS ENGINEER
SASSAN Geosciences Inc.
1290 N Lake Avenue Suite 204
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Tel (626) 345-1819
Fax (626) 345-1820

CLIENT
MR. EDDIE MAKABI
5905 BECKFORD AVENUE
TARZANA, CA 91356
PHONE No: (818) 645-4160

GRADING NOTES
TRACT 10595, LOT 16, 540 THRIFT ROAD
LOS ANGELES COUNTY

PREPARED BY
SASSAN GEOSCIENCES, INC.
1290 NORTH LAKE AVENUE SUITE 204
PASADENA, CALIFORNIA 91104-2869
(626) 345-1819 fax (626) 345-1820\_sasgeoinc@aol.com

Table with 2 columns: DRAWN, CHECKED, DATE, NOMBER/DIB, SCALE, AS SHOWN, SAS FILE No., 2MAK129.

SHEET C-1

REVISION	BY
05-17-2013	SAS
07-22-2013	SAS
08-09-2013	SAS
09-16-2013	SAS
10-28-2013	SAS
01-03-2014	SAS
04-07-2014	SAS
05-05-2014	SAS

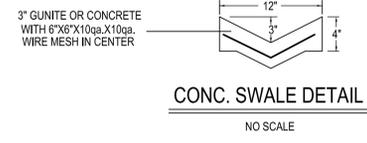
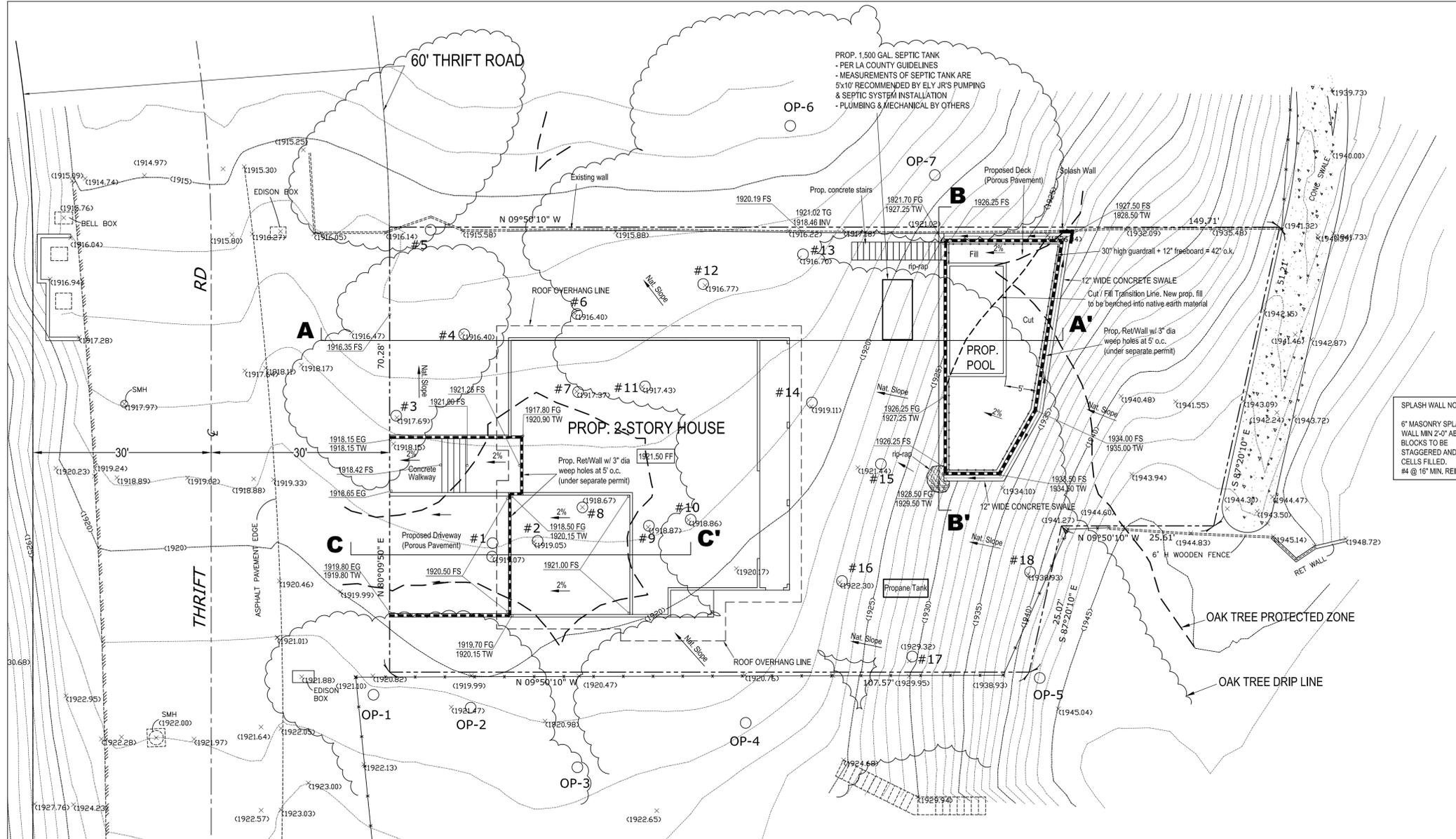
CLIENT  
**MR. EDDIE MAKABI**  
 5905 BECKFORD AVENUE  
 TARZANA, CA 91356  
 PHONE NO: (818) 645-1160

**GRADING & DRAINAGE PLAN**  
 TRACT 10895, LOT 16, 540 THRIFT ROAD  
 LOS ANGELES COUNTY

PREPARED BY  
**SASSAN GEOSCIENCES, INC.**  
 1200 NORTH LAKE AVENUE, SUITE 204  
 PASADENA, CALIFORNIA 91104-2869  
 (626) 345-1819 fax (626) 345-1820\_sasgeoinc@aol.com

DRAWN	BY
MIN	SAS
CHECKED	SAS
DATE	NOMEMBER 13, 2012
SCALE	AS SHOWN
SAS FILE NO.	2MAK129

**SHEET C-2**



**EARTH WORK CALCULATIONS**

CUT = 70.63 cu.yds  
 FILL = 70.19 cu.yds  
 IMPORT = 0 cu.yds  
 EXPORT = 0 cu.yds

**NOTES**

- EARTH QUANTITIES SHOWN HEREIN ARE ESTIMATED FOR PERMIT PURPOSES ONLY. CONTRACTOR SHALL MAKE HIS OWN QUANTITY ESTIMATES FOR HIS BID.
- ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE GRADING AND DRAINAGE PLAN ARE BASED ON AVAILABLE INFORMATION AND COMPUTER GENERATED DRAWINGS THAT MAY NOT HAVE THE SAME SCRUTINY AS HUMANS DO. ADJUST AS REQUIRED TO CONFORM TO ACTUAL FIELD CONDITIONS. IN CASE OF DISCREPANCY, NOTIFY CIVIL ENGINEER.
- THE HOUSE WILL BE SUPPORTED ON PILES. THIS PROJECT REQUIRES MINOR GRADING.

**SPLASH WALL NOTE:**  
 6" MASONRY SPLASH WALL MIN 2'-0" ABOVE FS. BLOCKS TO BE STAGGERED AND ALL CELLS FILLED.  
 #4 @ 16" MIN. REINF.

**SOILS ENGINEER'S CERTIFICATE**

This plan has been reviewed by SASSAN Geosciences, Inc. (SAS) and found to be in conformance with the recommendations outlined in the reports  
 Dated: 10-29-12  
 File No. (s): 2MAK129  
 By: SASSAN Geosciences, Inc.  
 Date: 05-05-2014

NOTE: SAS make no representation to the accuracy of dimensions, measurements, or calculations of any portion of the design.



**ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF STEEL**

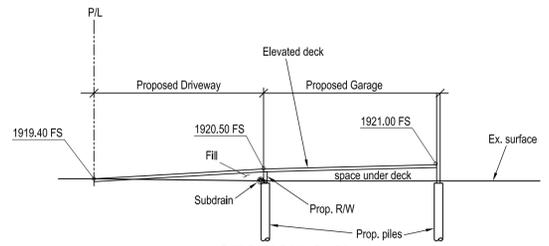
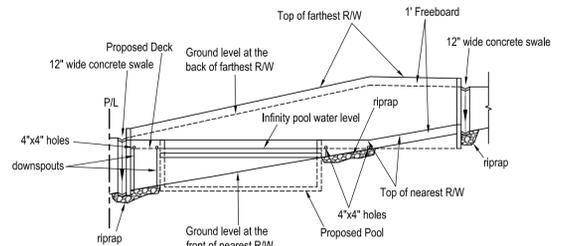
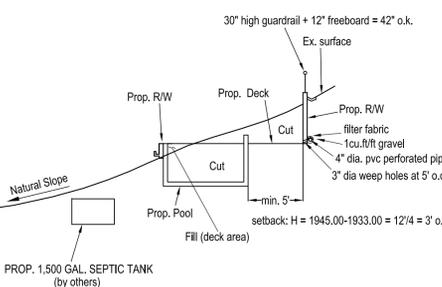
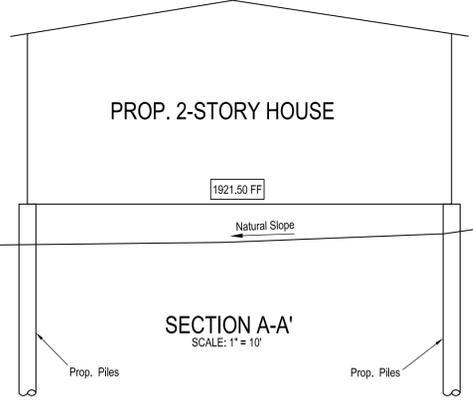
**NOTES:**  
 ALL WORK TO OAK TREES SHALL BE IN ACCORDANCE TO THIS PROJECT'S OAK TREE REPORT BY TREES, ETC. (RICHARD IBARRA, OAK TREE CONSULTANT), AS DATED AUGUST 8, 2013.

**LEGEND:**

- 1919.81 FL EX. ELEVATIONS
- 1919.81 FL PROP. ELEVATIONS
- (1915) EX. CONTOUR LINE
- HIGH PRESSURE SOLID PVC PIPE
- DIRECTION OF FLOW
- 1920.20 FS FINISH SURFACE
- 1920.40 EG EXIST. GRADE
- - - CHAIN LINK FENCE
- EXIST. STRUCTURE
- PROPERTY LINE
- #18 ○ TREE NUMBER & LOCATION WITHIN THE PROPERTY
- OP-7 ○ TREE NUMBER & LOCATION OUTSIDE OF THE PROPERTY

**BENCHMARK**

NAVD 88  
 Y 5932  
 MALIBU/2008  
 1955.300  
 CSEM MON 150MM UP @ NW COR LATIGO CYN RD AND THRIFT RD 9M (30') N AND 8M ( 26') W/O CL INT MKD (BM D-1-B)



All drawings prepared by SASSAN Geosciences, Inc. (SAS) are the exclusive property of SAS and, unless otherwise agreed, SAS shall be deemed the author of them and shall retain all common law, statutory and other reserved rights.

REVISION	BY
05-17-2013	SAS
07-05-2013	SAS
07-22-2013	SAS
08-09-2013	SAS
09-16-2013	SAS
01-03-2014	SAS
04-07-2014	SAS
05-05-2014	SAS

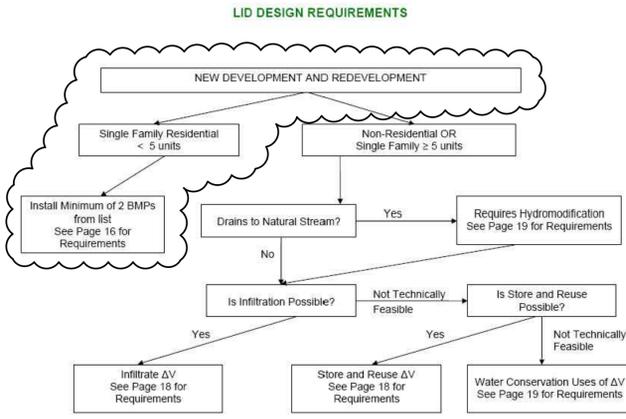
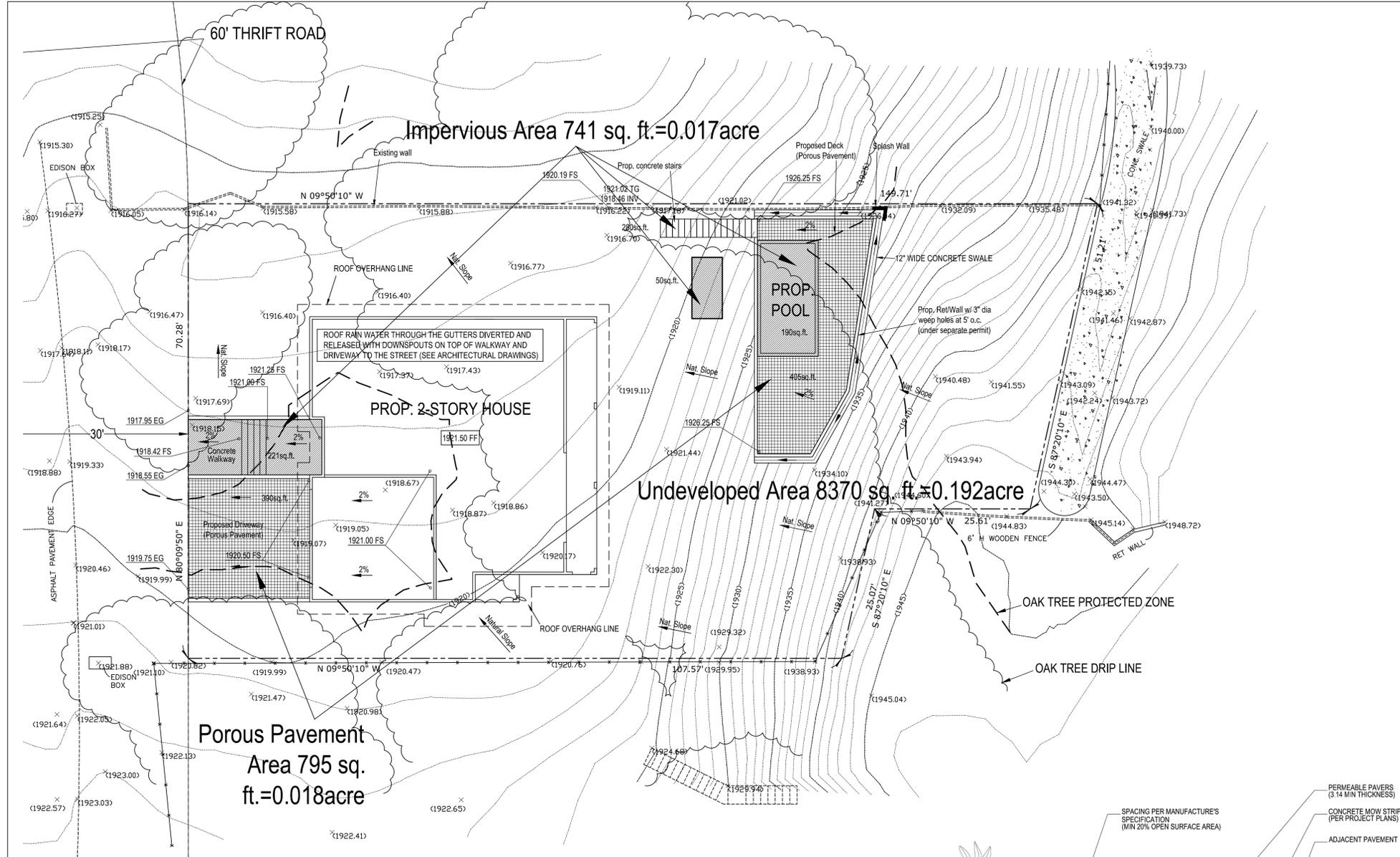
CLIENT  
**MR. EDDIE MAKABI**  
 5905 BECKFORD AVENUE  
 TARZANA, CA 91356  
 PHONE NO: (818) 645-4160

**LOW IMPACT DEVELOPMENT**  
 TRACT 10895, LOT 16, 540 THRIFT ROAD  
 LOS ANGELES COUNTY

PREPARED BY  
**SASSAN GEOSCIENCES, INC.**  
 1200 NORTH LAKE AVENUE, SUITE 204  
 PASADENA, CALIFORNIA 91104-2869  
 (626) 345-1819 fax (626) 345-1820 sassgeoinc@aol.com

DRAWN: MN  
 CHECKED: SAS  
 DATE: APRIL 22, 2013  
 SCALE: AS SHOWN  
 SAS Firm No.: 2MAK129

**SHEET C-3**



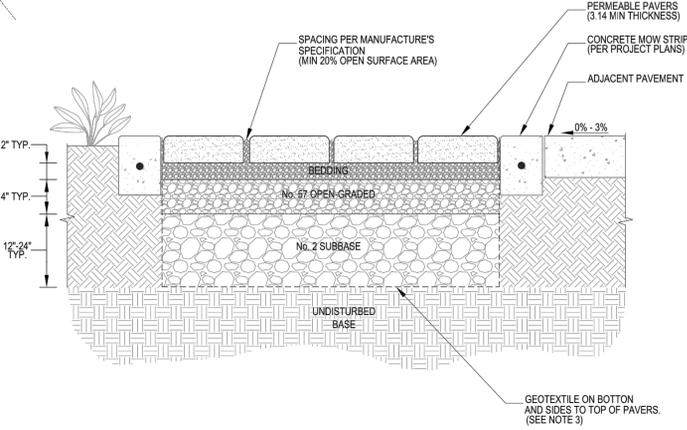
**CHAPTER 3: DESIGN REQUIREMENTS**

All new development and redevelopment under the jurisdiction of the County of Los Angeles is required to meet LID requirements. The goals of LID are to increase groundwater recharge, enhance water quality, and prevent degradation to downstream natural drainage courses.

**REQUIREMENTS FOR SMALL SCALE RESIDENTIAL PROJECTS**

Residential development and redevelopment of four units or less, or remodels affecting more than 50 percent of the original home footprint are not required to complete hydrologic analysis for the project site, but must include at least two of the following items into the site design:

- Porous pavement  
 Install porous pavement that allows rainwater to infiltrate through it. Porous pavement includes, but is not limited to, porous asphalt, porous concrete, ungrouted paving blocks, and gravel. At least 50 percent of the pavement on the lot shall be porous.
- Landscaping and landscape irrigation  
 Plant trees near impervious surfaces to intercept rainfall in their leaves. Trees planted adjacent to impervious surfaces can intercept water that otherwise would have become runoff. Two trees shall be planted on each parcel so that they overhang impervious surfaces. Install irrigation systems that minimize water usage and eliminate dry-weather urban runoff.



**POROUS PAVEMENT TYPICAL DETAIL**  
 SCALE: N.T.S.

**NOTES:**  
 THE MAINTENANCE OF LOW IMPACT DEVELOPMENT FEATURES IS THE RESPONSIBILITY OF THE OWNER

NOTES:  
 ALL WORK TO OAK TREES SHALL BE IN ACCORDANCE TO THIS PROJECT'S OAK TREE REPORT BY TREES, ETC. (RICHARD IBARRA, OAK TREE CONSULTANT), AS DATED AUGUST 8, 2013.

**SOILS ENGINEER'S CERTIFICATE**  
 This plan has been reviewed by SASSAN Geosciences, Inc. (SAS) and found to be in conformance with the recommendations outlined in the reports  
 Dated: 10-29-12  
 File No. (s): 2MAK129  
 By: SASSAN Geosciences, Inc.  
 Date: 05-05-2014

NOTE: SAS make no representation to the accuracy of dimensions, measurements, or calculations of any portion of the design.

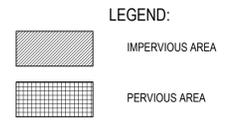


**ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF STEEL**

POROUS PAVEMENT AND NEW TREES PLANTING ARE TWO ITEMS INCLUDED IN THE SITE DESIGN (SEE ATTACHED PAGES FOR REQUIREMENTS)

- 1) POROUS PAVEMENT:  
 TOTAL PAVEMENT AREA IS 1536 SQ.FT. 50% OF THIS AREA IS 1546/2 = 768 SQ.FT. POROUS PAVEMENT AREA IS 795 SQ.FT. > 768 O.K.  
 CONTRACTOR TO INSTALL POROUS PAVEMENT PER LA COUNTY SPECIFICATIONS. A MIN OF 30" DEEP IMPERVIOUS LINER AND OR EDGE RESTRAINT WITHIN 5' OF PUBLIC RIGHT OF WAY, PROPERTY LINES AND STRUCTURES IS NOT REQUIRED BY SOILS ENGINEER. CONTRACTOR TO PROVIDE H-20 LOADING FOR FIRE DEPARTMENT ACCESS WHICH IS LOCATED AT THE WEST SIDE OF THE PROPERTY.
- 2) NEW TREES PLANTING:  
 THE OWNER IS PLANTING NEW SEVEN TREES ON HIS PROPERTY.

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REVISION	BY
05-04-2013	SAS
05-17-2013	SAS
07-22-2013	SAS
08-09-2013	SAS

CLIENT  
**MR. EDDIE MAKABI**  
 5905 BECKFORD AVENUE  
 TAZKANA, CA 91356  
 PHONE No: (818) 645-4160

**TEMPORARY EROSION CONTROL DETAILS**  
 TRACT 10095, LOT 16, 540 THRIFT ROAD  
 LOS ANGELES COUNTY

PREPARED BY  
**SASSAN GEOSCIENCES, INC.**  
 1200 NORTH LAKE AVENUE, SUITE 204  
 PASADENA, CALIFORNIA 91104-2869  
 (626) 345-1819 fax (626) 345-1820 sassgeoinc@aol.com

DRAWN	MIN
CHECKED	SAS
DATE	JANUARY 3, 2013
SCALE	AS SHOWN
SAS Firm No.	2MAK129
<b>SHEET EC-1</b>	

**GENERAL NOTES**

BEST MANAGEMENT PRACTICES (BMP'S) CONTAINED HEREIN REFLECT MINIMUM REQUIREMENTS. FOR ADDITIONAL BMP'S REFER TO CALIFORNIA STORMWATER BMP HANDBOOKS.

ALL CONSTRUCTION ACTIVITY SHALL BE PERFORMED IN ACCORDANCE WITH A STORMWATER POLLUTION CONTROL PLAN (SWPCP) DEVELOPED AND IMPLEMENTED IN COMPLIANCE WITH REQUIREMENTS OF THE LOS ANGELES COUNTY STORMWATER QUALITY MANAGEMENT PROGRAM, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. CAS063339.

THE SWPCP SHALL:  
 IDENTIFY POTENTIAL POLLUTANT SOURCES AND INCLUDE THE DESIGN AND PLACEMENT OF BMP'S TO EFFECTIVELY PROHIBIT THE ENTRY OF POLLUTANTS FROM THE CONSTRUCTION SITE INTO AND ONTO THE STREET AND STORM DRAIN SYSTEM DURING CONSTRUCTION.

BE KEPT ON SITE AND AMENDED TO REFLECT CHANGING CONDITIONS THROUGHOUT THE COARSE OF CONSTRUCTION.

BE KEPT UP TO DATE. ANY ADDITIONAL UPDATES REQUESTED BY AGENCY REPRESENTATIVES ARE TO BE MADE IMMEDIATELY.

NON-STORMWATER DISCHARGES ARE PROHIBITED FROM ENTERING ANY STORM DRAIN SYSTEM AND/OR STREET.

DISCHARGES OF PUMPED GROUND WATER REQUIRE A DISCHARGE PERMIT FROM THE STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (RWQCB).

POLLUTANTS SHALL BE REMOVED FROM STORMWATER DISCHARGES TO THE MAXIMUM EXTENT PRACTICABLE (MEP) THROUGH DESIGN & IMPLEMENTATION OF THE SWPCP.

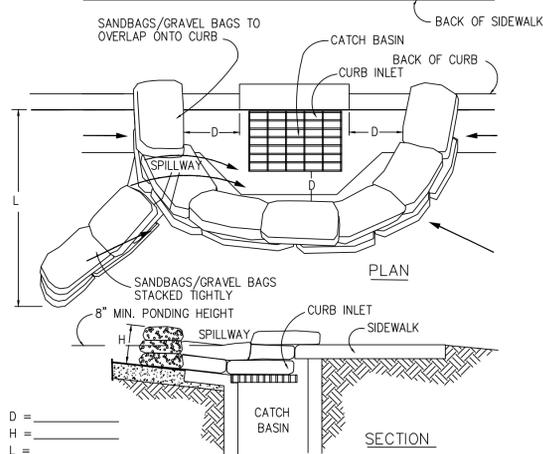
A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCT. 15 TO APR. 15). NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.

PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWAY FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STORM DRAIN INLETS.

EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS SHALL BE EDUCATED ON ALL BMP'S INCLUDING CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES.

SEDIMENT CONTROL PRACTICES SHALL EFFECTIVELY PREVENT A NET INCREASE OF SEDIMENT LOAD IN STORMWATER DISCHARGE.

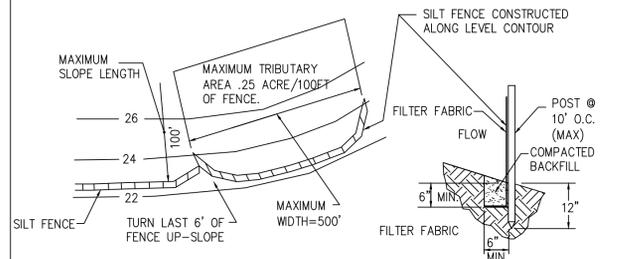
**A CATCH BASIN/INLET PROTECTION**



**NOTES:**

- CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED WHEREVER THERE IS A POTENTIAL OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
- INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS: EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED SURFACES.
- MODIFY INLET PROTECTION AS NEEDED TO AVOID CREATING TRAFFIC HAZARDS.
- INCLUDE INLET PROTECTION MEASURES AT HILLSIDE V-DITCHES AND MISC. DRAINAGE SWALES.
- INLET PROTECTION SHALL BE INSPECTED AND ACCUMULATED SEDIMENTS REMOVED. SEDIMENT SHALL BE DISPOSED OF PROPERLY AND IN A MANNER THAT ASSURES THAT THE SEDIMENT DOES NOT ENTER THE STORM DRAIN SYSTEM.
- DAMAGED BAGS SHALL BE REPLACED IMMEDIATELY.
- ADDITIONAL SANDBAG SEDIMENT TRAPS SHALL BE PLACED AT INTERVALS AS INDICATED ON SITE PLAN.

**B SILT FENCE**



**NOTES:**

- CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.
- SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
- PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
- TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
- LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
- DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
- WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS.

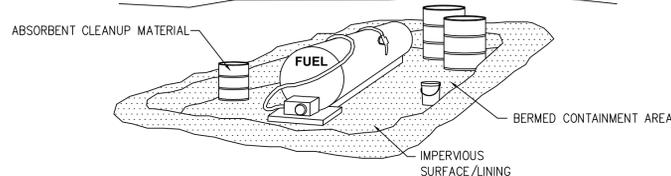
**F CONCRETE WASTE MANAGEMENT**



**NOTES:**

- EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
- FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE.
- SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.

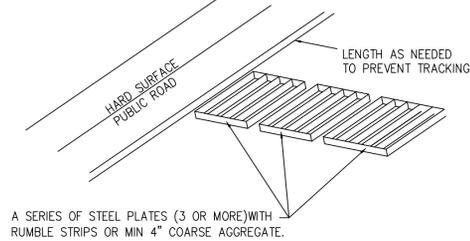
**G VEHICLE/EQUIPMENT FUELING**



**NOTES:**

- FUELING SHALL BE PERFORMED IN A DESIGNATED AREA, AWAY FROM DRAINAGE COURSES.
- ABSORBENT CLEANUP MATERIAL SHALL BE ON SITE AND USED IMMEDIATELY IN THE EVENT OF A SPILL.

**C STABILIZED CONSTRUCTION ENTRANCE**



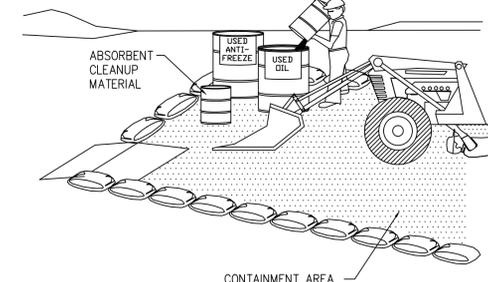
**NOTES:**

- SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
  - LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
  - A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
- ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
- ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.

**STREET MAINTENANCE**

- REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
- PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

**H EQUIPMENT REPAIR/MAINTENANCE**



**NOTES:**

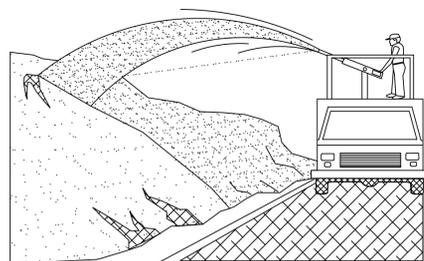
- LEAKING VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED ON-SITE. EQUIPMENT AND VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS AND SHALL BE REPAIRED IMMEDIATELY. CLEAN UP SPILLS AND LEAKS PROMPTLY WITH ABSORBENT MATERIALS; DO NOT FLUSH WITH WATER.
- VEHICLES AND EQUIPMENT SHALL BE MAINTAINED, AND REPAIRED ON-SITE ONLY IN DESIGNATED AREAS. PREVENT RUN-ON AND RUN-OFF FROM DESIGNATED AREAS. CONTAINMENT DEVICES SHALL BE PROVIDED AND AREAS SHALL BE COVERED IF NECESSARY.
- DESIGNATE ON-SITE VEHICLE AND EQUIPMENT MAINTENANCE AREAS, AWAY FROM STORM DRAIN INLETS AND WATERCOURSES.
- ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS AND LEAKS WHEN REMOVING OR CHANGING FLUIDS.
- LEGALLY DISPOSE OF USED OILS, FLUIDS, AND LUBRICANTS.
- PROVIDE SPILL CONTAINMENT DIKES OR SECONDARY CONTAINMENT AROUND STORED OIL, FUEL, AND CHEMICAL DRUMS.
- MAINTAIN AN ADEQUATE SUPPLY OF ABSORBENT SPILL CLEANUP MATERIALS IN DESIGNATED AREA.

**NOTES:**

ALL WORK TO OAK TREES SHALL BE IN ACCORDANCE TO THIS PROJECT'S OAK TREE REPORT BY TREES, ETC. (RICHARD IBARRA, OAK TREE CONSULTANT), AS DATED AUGUST 8, 2013.

**ALL EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF STEEL**

**D EROSION CONTROL**



SOIL/SLOPE STABILIZATION PRACTICES SHALL BE DESIGNED TO PRESERVE EXISTING VEGETATION WHERE FEASIBLE AND TO REVEGETATE OPEN AREAS AS SOON AS FEASIBLE AFTER GRADING. THESE CONTROL PRACTICES SHALL INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, OR OTHER SOIL STABILIZATION PRACTICES.

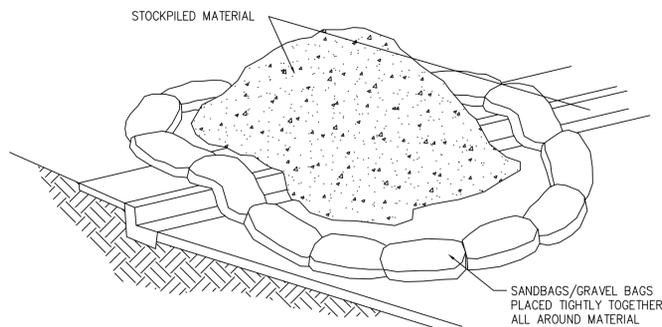
SOIL STABILIZATION SHALL BE IMPLEMENTED ON ALL INACTIVE DISTURBED AREAS FROM NOVEMBER 1 THRU APRIL 15 AND ON ALL DISTURBED AREAS DURING A RAIN EVENT OR POTENTIAL RAIN.

STABILIZATION PRACTICES SHALL CONTROL/PREVENT EROSION FROM THE FORCES OF WIND AND STABILIZATION PRACTICES SHALL BE IMPLEMENTED IN CONJUNCTION WITH SEDIMENT TRAPPING/FILTERING PRACTICES AND PRACTICES TO REDUCE THE TRACKING OF SEDIMENT ONTO PAVED ROADS.

WHEN USING STRAW MULCHING, THE MINIMUM APPLICATION SHALL BE 2 TONS/ACRE. MULCH MUST BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

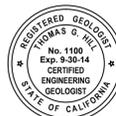
WHEN USING HYDROSEEDING/MULCHING, THE MINIMUM APPLICATION OF WOOD FIBER SHALL BE 1,500 LBS/ACRE, THAT DOES NOT CONTAIN MORE THAN 50 PERCENT NEWSPRINT. FOR SEEDING RECOMMENDATIONS, CONTACT: USDA, NATURAL RESOURCES CONSERVATION SERVICE OR VENTURA COUNTY RCD.

**E MATERIAL STORAGE**



**NOTES:**

- DIRT AND OTHER CONSTRUCTION RELATED MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH SANDBAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORMDRAIN SYSTEM.
- ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON-SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.



**SOILS ENGINEER'S CERTIFICATE**

This plan has been reviewed by SASSAN Geosciences, Inc. (SAS) and found to be in conformance with the recommendations outlined in the reports  
 Dated: 10-29-12  
 File No.(s): 2MAK129  
 By: SASSAN Geosciences, Inc.  
 Date: 08-09-2013

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