DESIGN REVIEW SUBMITTAL

# HALFILL-NICHOLS RESIDENCE

55 VERISSIMO DRIVE, NOVATO, CA 94947

APN 125-331-33

APRIL 23, 2024

1 6/12/24 - PLAN CHECK

### PROJECT INFORMATION<sup>A</sup>

	•		. •			
PROJECT DATA (BASED ON MAR	IN STANDARD PRO	JECT DATA TABLE)				
DESCRIPTION		EXISTING	PROPOSED			
1. LOT AREA		90,229 SF	90,229 SF			
2. BUILDING AREA		2799.45 SF	2985.25 SF			
3. FLOOR AREA		3584.45 SF	3747.6 SF			
4. FLOOR AREA RATIO		3.9%	4.15%			
5. PROPOSED AREA OF DISTURB	ANCE	N/A	17,111 SF			
7. LOT COVERAGE		3.9%	4.14%			
8. GRADING CALCULATIONS						
CUT		N/A	243 CY			
FILL		N/A	19 CY			
OFF-HAUL		N/A	224 CY			
9. PARKING			2 OFF-STREET			
10. MINIMUM SETBACKS FOR EXT	ERIOR WALLS					
OF PROPOSED BUILDING ARE	A					
	80' REQ'D, 208' PRO\					
		7) 162' (EAST) PROVIDE	:D			
REAR YARD: 3	80' REQ'D, 95' PROVI	DED				
OTHER INFO						
ZONING DISTRICT	RSP-0.33					
APN	125-331-33					
OCCUPANCY - CONST. TYPE	22.272/					
AVE. LOT SLOPE	30.67%					
YEAR BUILT	N/A					
MAXIMUM BUILDING HEIGHT	30'					
DAYLIGHT PLANE	N/A					
SPRINKLERED CONSTRUCTION:	N/A	OTEOTION DIOTRIOT				
FIRE DEPARTMENT DISTRICT:		OTECTION DISTRICT				
SCHOOL DISTRICT:	NOVATO-SAN JOS	SE SCHOOLS				
ADDITIONAL E CODES						
	APPLICABLE CODES ALL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES AND THE CODES LISTED BELOW:					
· 2022 CALIFORNIA RESIDENTIAL CODE: CRC						
· 2022 CALIFORNIA FIRE CODE						
2022 CALIFORNIA BUILDING CODE: CBC						
· 2022 GREEN BUILDING STANDARDS						
· LOCAL MUNICIPAL CODE	2,					

PRE- AND POST- CONSTRUCTION PERVIOUS/IMPERVIOUS AREAS (WITHIN LIMITS)					
NOTE: TOTAL PARCEL AREA = 90,229 SF; 2.07 AC	IMPERVIOUS	% OF	PERVIOUS	% OF	
TOTAL TRIBUTARY AREA (T.A.) = 21,064; 0.48 AC	AREA (SF)	T.A.	AREA (SF)	T.A.	
PRE-CONSTRUCTION	3,436 SF	16.30%	17,628 SF	83.70%	
POST-CONSTRUCTION	4,324 SF	20.50%	16,936 SF	79.50%	
TOTAL NEW AND REPLACED IMPERVIOUS AREA (SF)	1,909 SF				

### PROJECT DIRECTORY

(415) 383-9780

JIM@BRADANINI.COM

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JNICHOLS@MAINSTREETPT.NET

LANDSCAPE ARCHITECT **BRADANINI & ASSOCIATES** 90 THROCKMORTON AVENUE, STE. 16 MILL VALLEY, CA 94941 JAMES BRADANINI

#### **GEOTECHNICAL ENGINEER**

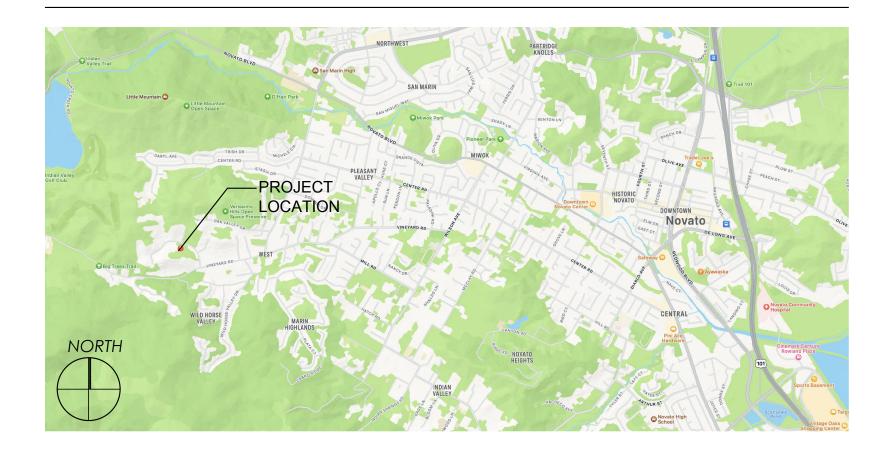
PJC & ASSOCIATES, INC. 600 MARTIN AVENUE, STE. 210 ROHNERT PARK, CA 94928 ROBERT DI JORIO (707) 584-4804

**CIVIL ENGINEER** 

MUNSELLE CIVIL ENGINEERING 513 CENTER ST. HEALDSBURG, CA 95448 DAN HUGHES, P.E. (707) 395-0968 CORT@MUNSELLECIVIL.COM



### VICINITY MAP



### PROJECT DESCRIPTION

Bradanini

APRIL 23, 2024

↑ 6/12/24 - PLAN CHECK

### DRAWING INDEX

T1 TITLE SHEET (THIS SHEET)

L1.0 EXISTING CONDITIONS & OVERALL SITE PLAN

L1.1 PRELIMINARY SITE PLAN

L1.2 PRELIMINARY LANDSCAPE PLAN

L1.3 SITE & POOL SECTIONS

L1.4 DRIVEWAY GATE PLAN & DETAILS

SITE DETAILS

**COVER SHEET** 

**GRADING PLAN** 

**EROSION CONTROL PLAN AND DETAILS** 

PRE- AND POST- CONSTRUCTION DRAINAGE EXHIBIT

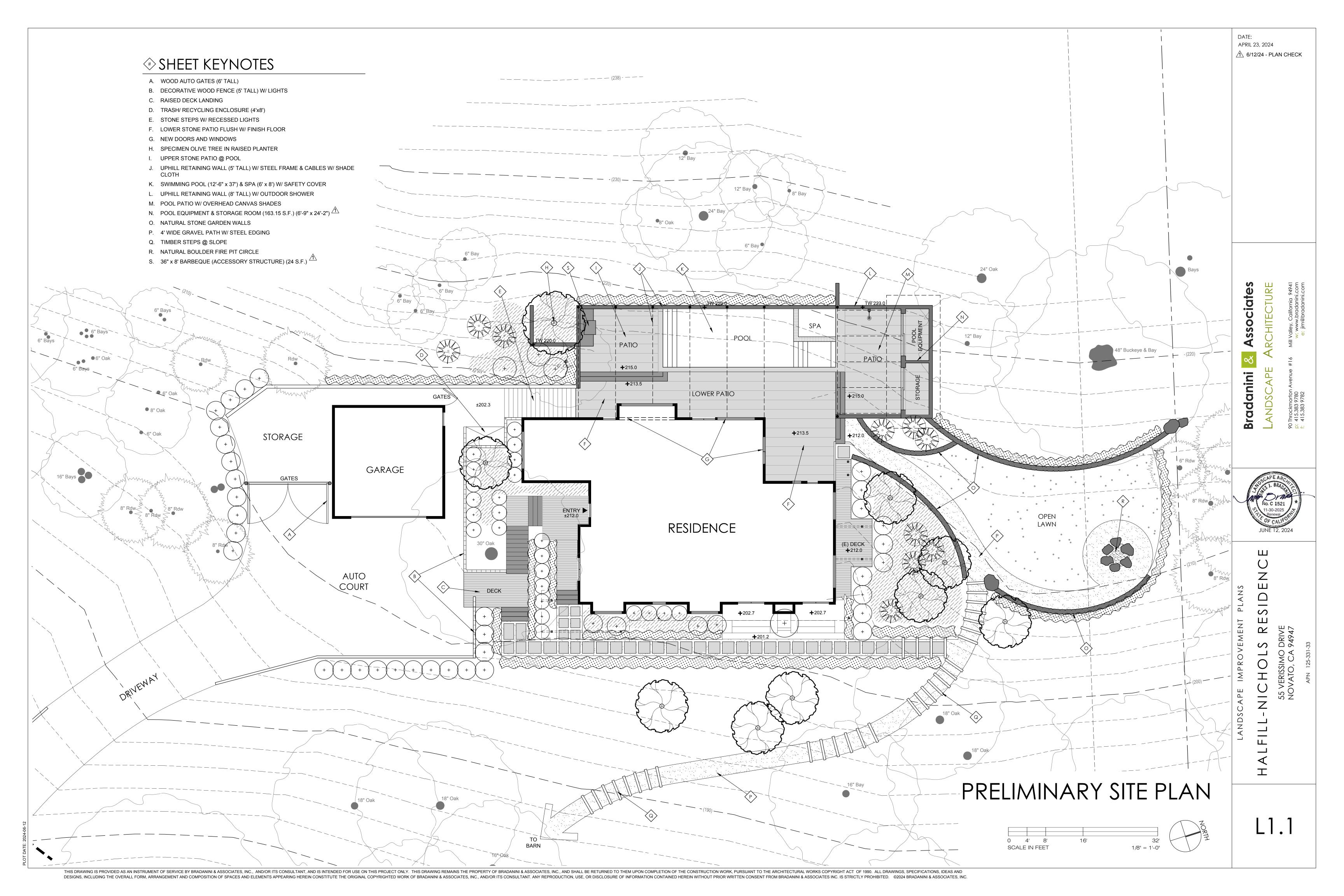


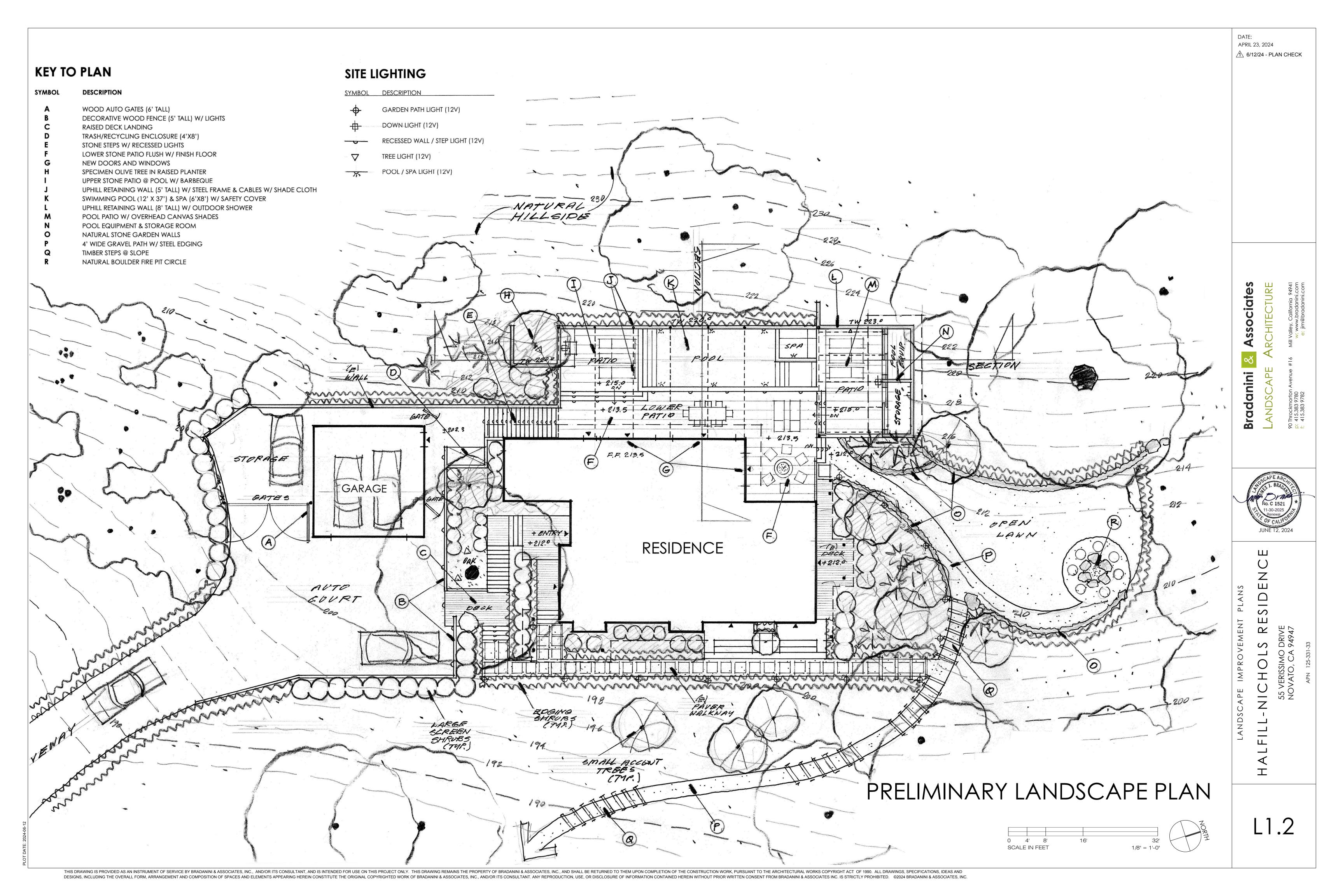
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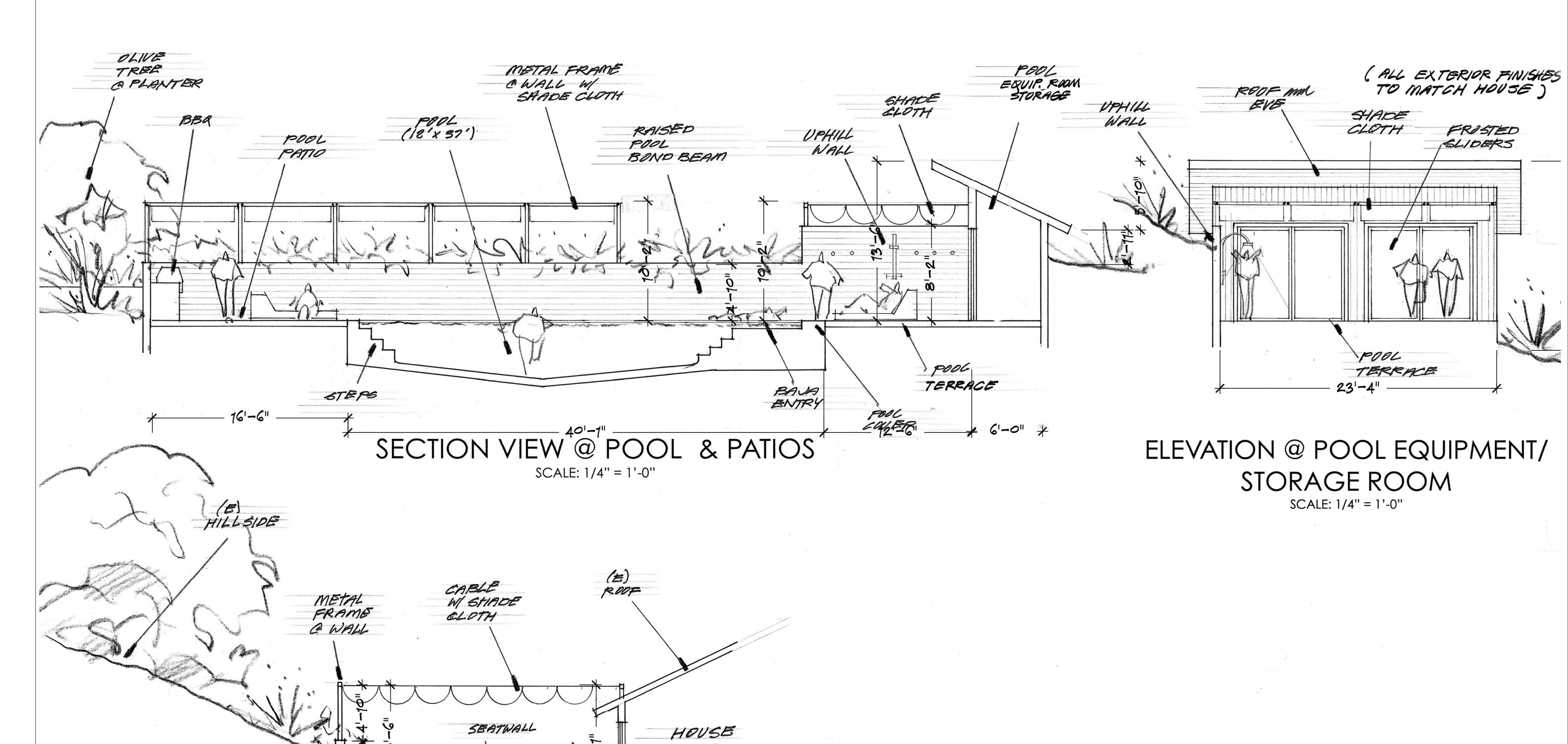
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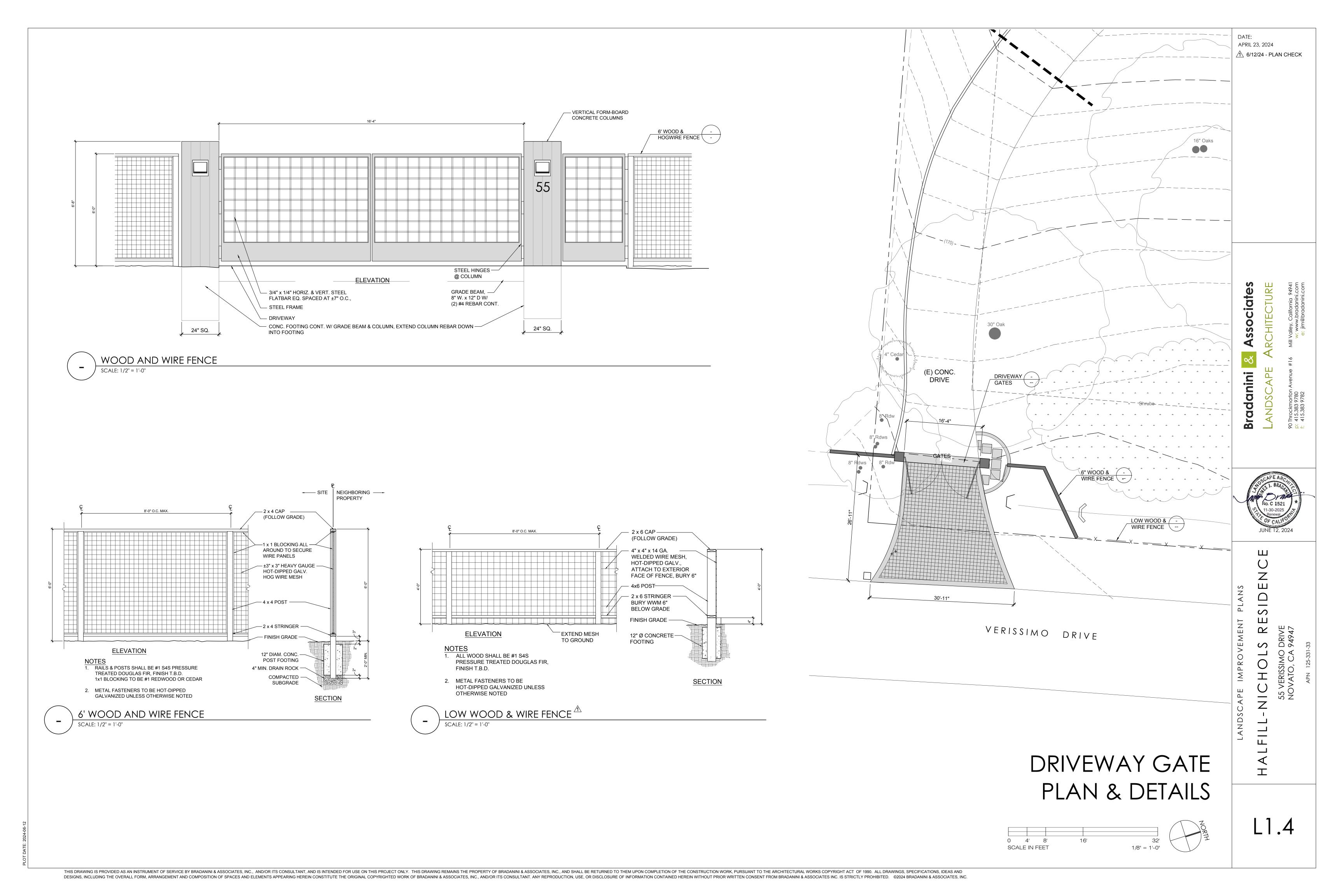


SITE & POOL SECTIONS



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

SECTION VIEW @ POOL







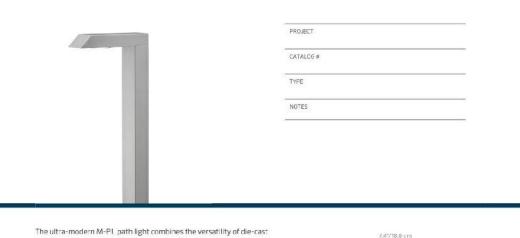


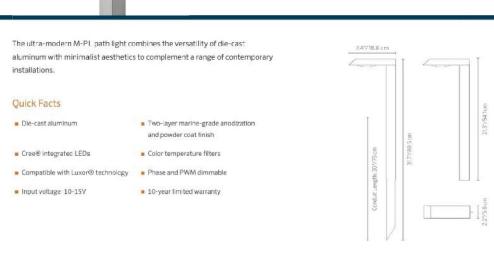


SAW-CUT CONCRETE PAVING

GARDEN WALLS



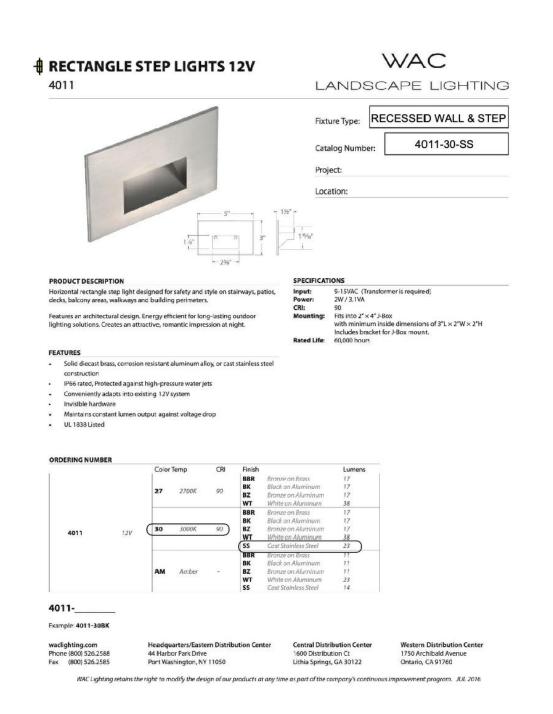




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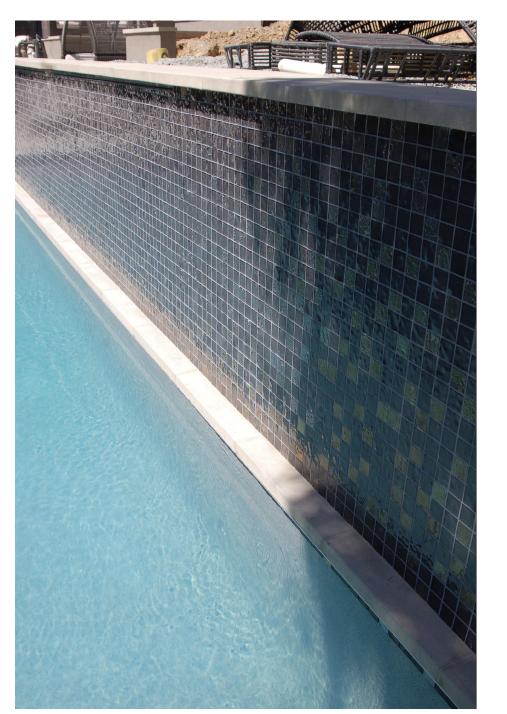
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GARDEN PATH LIGHTS

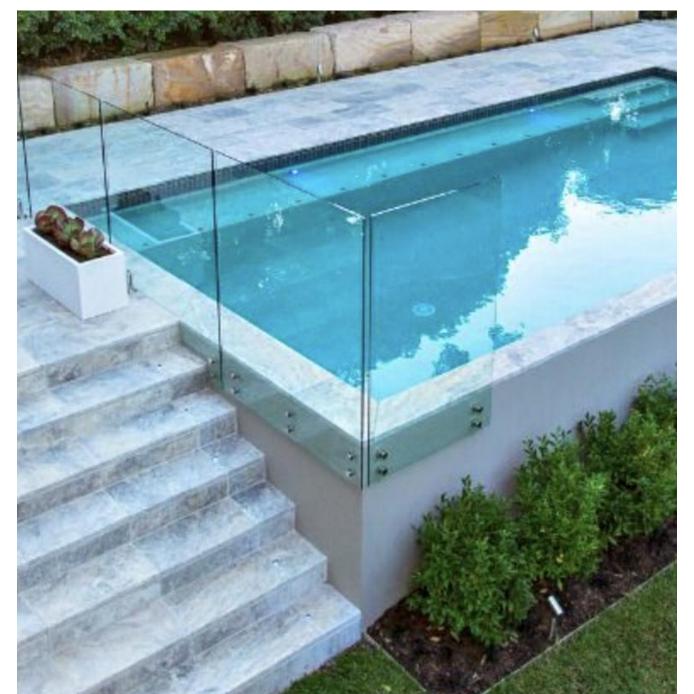


CANVAS SHADES W/ STRING LIGHTS

RECESSED WALL LIGHT



RAISED POOL BOND BEAM



**ELEVATED POOL** 



VERTICAL BOARD-FORM CONCRETE WALLS

SITE DETAILS

#### GRADING AND DRAINAGE NOTES

- PERFORM GRADING AND DRAINAGE IMPROVEMENTS IN ACCORDANCE WITH CURRENT EDITION OF THE CALIFORNIA BUILDING CODE (CBC), APPENDIX J AND APPLICABLE COUNTY OF MARIN CODE AND REGULATIONS.
- . ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD UPON DISCOVERING DISCREPANCIES, ERRORS, OR OMISSIONS IN THE PLANS. PRIOR TO PROCEEDING, THE OWNER SHALL HAVE THE PLANS REVISED TO CLARIFY IDENTIFIED DISCREPANCIES, ERRORS, OR OMISSIONS, THE APPROVED PLANS AND SPECIFICATIONS SHALL NOT BE CHANGED WITHOUT THE WRITTEN APPROVAL OF THE MARIN COUNTY BUILDING DEPARTMENT. PROPOSED MODIFICATIONS TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE PERMIT AUTHORITY IN WRITING, TOGETHER WITH ALL NECESSARY TECHNICAL INFORMATION AND
- THE GRADING/DRAINAGE PERMIT AND AN APPROVED COPY OF THE GRADING/DRAINAGE PLANS SHALL BE MAINTAINED ON THE PROJECT SITE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- . MARIN COUNTY BUILDING DEPARTMENT MAY ORDER THAT ANY WORK STOP IMMEDIATELY IF IT IS PERFORMED CONTRARY TO CBC APPENDIX J, NOVATO CODE AND REGULATIONS, THE APPROVED PLANS AND SPECIFICATIONS, PERMIT CONDITIONS, OR ANY WORK THAT HAS BECOME HAZARDOUS TO PROPERTY OR THE PUBLIC.
- ISSUANCE OF A GRADING/DRAINAGE PERMIT BY COUNTY OF MARIN DOES NOT ELIMINATE THE RESPONSIBILITY OF THE OWNER TO SECURE PERMITS FROM OTHER AGENCIES WITH REGULATORY RESPONSIBILITIES FOR THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK ON THESE PLANS. FAILURE TO OBTAIN ALL REQUIRED PERMITS MAY RESULT IN FINES FROM THE RESPECTIVE AGENCY.
- . EXISTING DRAINAGE COURSES RECEIVING WATERS FROM THIS SITE AND LOCATED THROUGHOUT THIS SITE SHALL REMAIN OPEN AND CLEAR OF DEBRIS TO PROPERLY CONVEY STORM WATER. IF EXISTING DRAINAGE COURSES RECEIVING WATERS FROM THIS SITE ARE LOCATED IN CITY RIGHT-OF-WAY AND NEED MAINTENANCE, CONTACT MARIN COUNTY DEPARTMENT OF PUBLIC WORKS AT (415) 473-6528 FOR FURTHER ASSISTANCE. IN ANY EVENT, THE OWNER AND/OR CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERT (U.S.A.), TOLL FREE AT 1-800-642-2444, AT LEAST TWO WORKING DAYS BUT NOT MORE THAN 14 CALENDAR DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL UNCOVER RELEVANT UTILITIES TO VERIFY THEIR LOCATION AND ELEVATION. IF UNEXPECTED OR CONFLICTING UTILITIES ARE ENCOUNTERED DURING EXCAVATION, NOTIFY U.S.A, THE UTILITY DWNER, AND/OR THE ENGINEER OF RECORD IMMEDIATELY. UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER, SEWER, ELECTRICAL, GAS, TELEPHONE, AND CABLE/TV. IF PRACTICAL, THE EXCAVATOR SHALL DELINEATE WITH WHITE PAINT OR OTHER SUITABLE MARKINGS THE AREA TO BE EXCAVATED.
- . IN THE EVENT CULTURAL RESDURCES (I.E., HISTORICAL, ARCHAEDLOGICAL, AND PALEONTOLOGICAL RESOURCES, AND HUMAN REMAINS) ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL IMMEDIATELY BE HALTED WITHIN THE VICINITY OF THE FIND. THE NORTHWEST INFORMATION CENTER SHALL BE NOTIFIED AT (707) 664-0880. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED BY THE CITY OF MILL VALLEY PER THE ARCHEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE COUNTY CORONER AT (415) 499-6043.
- 10. SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, STOP WORK IMMEDIATELY IN THE AFFECTED AREA AND CONTACT 911 OR THE APPROPRIATE AGENCY FOR FURTHER INSTRUCTION.
- . RETAINING WALLS, UNLESS EXEMPTED, ARE NOT APPROVED UNDER A GRADING PERMIT. A SEPARATE BUILDING PERMIT IS REQUIRED.
- 12. EQUIPMENT SHALL NOT CROSS OR DISTURB CHANNELS OF ACTIVELY FLOWING STREAMS WITHOUT MARIN COUNTY APPROVED PERMIT AND BEST MANAGEMENT
- 13. GRADING AND DRAINAGE IMPROVEMENTS SHALL BE SET BACK FROM STREAMS, LAKES, PONDS, AND WETLANDS IN COMPLIANCE WITH CITY REQUIREMENTS EXISTING VEGETATION SHALL BE RETAINED IN STREAM SETBACK AREAS TO FILTER SOIL AND OTHER POLLUTANTS CARRIED IN STORMWATER.
- 14. EXCESS SOIL SHALL BE REMOVED FROM THE SITE UNLESS DEPICTED TO REMAIN ON SITE PER THE APPROVED PLAN. THE SITE RECEIVING SOIL MAY REQUIRE A GRADING PERMIT UNLESS EXEMPTED.
- 15. CONTOURS, ELEVATIONS, AND SHAPES OF FINISHED SURFACES SHALL BE BLENDED WITH ADJACENT NATURAL TERRAIN TO ACHIEVE A CONSISTENT GRADE AND NATURAL APPEARANCE. THE TOP OF CUT SLOPES SHALL BE ROUNDED OFF TO BLEND WITH THE NATURAL TERRAIN, BORDERS OF CUT SLOPES AND FILLS SHALL BE ROUNDED OFF TO A MINIMUM RADIUS OF 5-FEET TO BLEND WITH THE NATURAL TERRAIN.
- 16. FILL MATERIAL SHALL NOT INCLUDE ORGANIC, FROZEN, OR OTHER DELETERIOUS MATERIALS. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL GREATER THAN 6 INCHES IN ANY DIMENSION SHALL BE INCLUDED IN FILLS EXCEPT WHERE APPROVED BY THE SOILS ENGINEER. FILLS SHALL BE CONSTRUCTED IN LIFTS NOT EXCEEDING 8 INCHES IN DEPTH. COMPLETED FILLS SHALL BE STABLE, WELL-INTEGRATED, AND BONDED TO ADJACENT MATERIALS AND THE MATERIALS ON WHICH THEY REST. FILLS SHALL BE COMPETENT TO SUPPORT ANTICIPATED LOADS AND BE STABLE AT THE DESIGN SLOPES SHOWN ON THE APPROVED PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE SOILS ENGINEER.
- .7. GROUND SURFACES SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, TOPSOIL, AND OTHER UNSUITABLE MATERIALS, AND SCARIFYING THE GROUND TO PROVIDE A BOND WITH THE FILL MATERIAL.
- 18. FILL SHALL NOT BE PLACED ON NATURAL SLOPES STEEPER THAN 2H:1(50%).
- 19. FILLS INTENDED TO SUPPORT STRUCTURES OR SURCHARGES SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D 1557, MODIFIED PROCTOR. A HIGHER COMPACTION PERCENTAGE MAY BE REQUIRED BY THE SOILS ENGINEER.
- 20, FILLS NOT INTENDED TO SUPPORT STRUCTURES OR SURCHARGES SHALL BE COMPACTED AS FOLLOWS: (1) FILL GREATER THAN 3 FEET IN DEPTH SHALL BE COMPACTED TO THE DENSITY SPECIFIED BY THE SOILS ENGINEER. (2) FILLS NO GREATER THAN 3 FEET IN DEPTH SHALL BE COMPACTED TO THE DENSITY NECESSARY FOR THE INTENDED USE OR AS DIRECTED BY THE SOILS ENGINEER.
- 21, ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR DBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERY, NOTIFICATION SHALL BE IN WRITING.

#### EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- 1. PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH COUNTY OF MARIN REGULATIONS, WHICH FOLLOWS BEST MANAGEMENT PRACTICES (BMPs) AS SPECIFIED IN THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) MANUAL.
- 2. EROSION/SEDIMENT CONTROL MEASURES MUST BE INSTALLED AS THE FIRST ORDER OF WORK.
- 3. THE APPROVED PLANS SHALL CONFORM WITH MARIN COUNTY EROSION CONTROL REQUIREMENTS.
- 4. THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. WORK SITES WITH INADEQUATE EROSION AND SEDIMENT CONTROL MAY BE SUBJECT TO A STOP WORK ORDER.
- 5. IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY.

#### RAINY SEASON OPERATIONS

- 1. THE DWNER MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 - APRIL 15). CONSTRUCTION GRADING AND DRAINAGE IMPROVEMENT SHALL BE PERMITTED DURING THE RAINY SEASON ONLY WHEN ON-SITE SOIL CONDITIONS PERMIT THE WORK TO BE PERFORMED IN COMPLIANCE WITH MARIN COUNTY STANDARD SPECIFICATIONS. STORM WATER BMPS REFERENCED OR DETAILED IN THE PERMIT AUTHORITY'S BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED AND FUNCTIONAL ON THE SITE AT ALL TIMES
- 2. THE AREA OF ERODIBLE LAND EXPOSED AT ANY ONE TIME DURING THE WORK SHALL NOT EXCEED 1 ACRE OR 20% OF THE PERMITTED WORK AREA, WHICHEVER IS GREATER, AND THE TIME OF EXPOSURE SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE.

#### YEAR ROUND REQUIREMENTS

- DURING THE NON-RAINY SEASON, ON ANY DAY WHEN THE NATIONAL WEATHER SERVICE FORECAST IS A CHANCE OF RAIN OF 30% OR GREATER WITHIN THE NEXT 24 HOURS, STORM WATER BMPS REFERENCED OR DETAILED IN BASMAA MANUAL OR WITHIN PLANS BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED, INSTALLED, AND FUNCTIONAL ON THE SITE TO PREVENT SOIL AND OTHER POLLUTANT DISCHARGES. AT ALL OTHER TIMES, BMPS SHOULD BE STORED ON SITE IN PREPARATION FOR INSTALLATION PRIOR TO RAIN EVENTS.
- 2. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE FORECASTED STORM EVENTS AND AFTER STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- 3. THE LIMITS OF GRADING SHALL BE DEFINED AND MARKED ON SITE TO PREVENT DAMAGE TO SURROUNDING VEGETATION, PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE. ANY EXISTING VEGETATION WITHIN THE LIMITS OF GRADING THAT IS TO REMAIN UNDISTURBED BY THE WORK SHALL BE IDENTIFIED AND PROTECTED FROM DAMAGE BY MARKING, FENCING, OR OTHER MEASURES.
- 4. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS AND SHALL BE NOTED ON THE PLAN.
- 5. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER, AND CHLORINATED WATER.
- 6. ENTRANCE(S) TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AT THE END OF EACH WORKING DAY OR MORE OFTEN AS NECESSARY.
- 7. ALL DISTURBED AREAS SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMUM EXTENT PRACTICABLE, SUCH AS ESTABLISHING VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS, TEMPORARY OR PERMANENT REVEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER VEGETATION REMOVAL BUT IN ALL CASES PRIOR TO OCTOBER 15. PRIOR TO FINAL INSPECTION, ALL DISTURBED AREAS SHALL BE REVEGETATED OR LANDSCAPING SHALL BE INSTALLED.
- 8. WHENEVER IT IS NOT POSSIBLE TO USE EROSION PREVENTION MEASURES ON EXPOSED SLOPES, SEDIMENT CONTROL DEVICES SUCH AS FIBER ROLLS AND SILT FENCES SHALL BE INSTALLED TO PREVENT SEDIMENT MIGRATION. FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND KEYED INTO THE SOIL AND INSTALLED ON CONTOUR. SILT FENCES SHALL BE INSTALLED APPROXIMATELY 2 TO 5 FEET FROM TOE OF SLOPE.
- 9. HYDROSEEDING SHALL BE CONDUCTED IN A THREE STEP PROCESS. FIRST, EVENLY APPLY SEED MIX AND FERTILIZER TO THE EXPOSED SLOPE. SECOND, EVENLY APPLY MULCH OVER THE SEED AND FERTILIZER. THIRD, STABILIZE THE MULCH IN PLACE. AN EQUIVALENT SINGLE STEP PROCESS, WITH SEED, FERTILIZER, WATER, AND BONDED FIBERS IS ACCEPTABLE.
- APPLICATIONS SHALL BE BROADCASTED MECHANICALLY OR MANUALLY AT THE RATES SPECIFIED BELOW. SEED MIX AND FERTILIZER SHALL BE WORKED INTO THE SOIL BY ROLLING OR TAMPING. IF STRAW IS USED AS MULCH, STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY AND BE APPROXIMATELY 6 TO 8 INCHES IN LENGTH. STABILIZATION OF MULCH SHALL BE DONE HYDRAULICALLY BY APPLYING AN EMULSION OR MECHANICALLY BY CRIMPING OR PUNCHING THE MULCH INTO THE SOIL, EQUIVALENT METHODS AND MATERIALS MAY BE USED ONLY IF THEY ADEQUATELY PROMOTE VEGETATION GROWTH AND PROTECT EXPOSED SLOPES.

#### APPLICATION RATE (POUNDS PER ACRE) SEED MIX Bromus mollis (BLANDO BROME)

Trifolium hirtum (HYKON ROSE CLOVER) 16-20-0 & 15% SULPHUR STRAW HYDRAULIC STABILIZING\* M-BINDER OR SENTINEL

EQUIVALENT MATERIAL PER MANUFACTURER

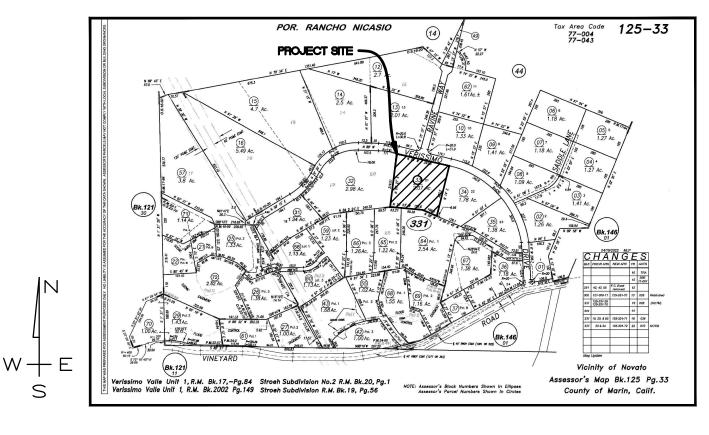
\*NON-ASPHALTIC, DERIVED FROM PLANTS

- 10. DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
- 11. STORM DRAIN INLETS SHALL BE PROTECTED FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL AND CONSTRUCTION HAS BEEN COMPLETED.
- 12.ENERGY DISSIPATERS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY EROSIVE STORM WATER FLOW.
- 13. SOIL, MATERIAL STOCKPILES, AND FERTILIZING MATERIAL SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.
- 14. SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY OR AS NECESSARY. REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE COORDINATED BY THE CONTRACTOR.
- 15.A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER COUNTY WATERWAYS SUCH AS CREEKS OR STORM DRAINS. NO WASHOUT OF CONCRETE, MORTAR MIXERS, OR TRUCKS SHALL BE ALLOWED ON SOIL.
- 16. PROPER APPLICATION, CLEANING, AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.
- 17. TEMPORARY RESTROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED DURING CONSTRUCTION ACTIVITIES TO PREVENT THE DISCHARGE OF POLLUTANTS.
- 18. APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE, AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

## GRADING AND DRAINAGE PLAN

### 55 VERISSIMO DRIVE

NOVATO, CA APN 125-331-33



#### AP MAP

### OWNER

RENEE HALFILL & JEFF NICHOLS 55 VERISSIMO DRIVE NOVATO, CA 94947

#### NO SCALE CONTACT MUNSELLE ENGINEERING 513 CENTER STREET

HEALDSBURG, CA 95448 (707)-395-0968

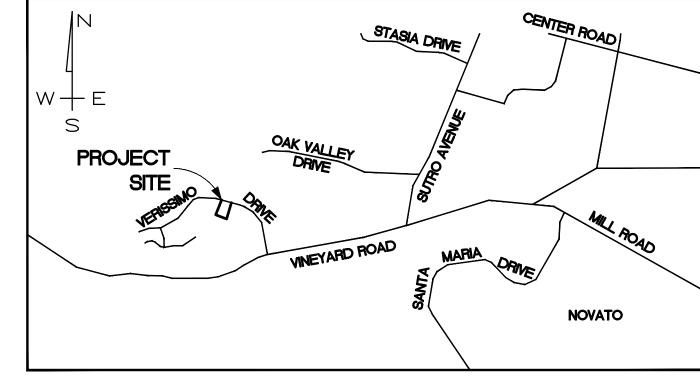
### PROJECT DESCRIPTION

DEMOLITION AND CONSTRUCTION OF NEW POOL, PATIOS, HARDSCAPE AREAS, LANDSCAPE AREAS, AND ASSOCIATED GRADING AND DRAINAGE IMPROVEMENTS FOR THE PROPERTY.

### SURVEY NOTES

TOPOGRAPHIC INFORMATION SHOWN HEREON IS FROM OTHERS.

- THE LOCATION OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAS BEEN DETERMINED FROM SURFACE EVIDENCE OF THEIR EXISTENCE AND/OR FROM INFORMATION DBTAINED FROM PUBLIC AND/OR UTILITY AGENCIES. THE SURVEYOR ACCEPTS NO LIABILITY FOR THE LOCATION, EXISTENCE OR NON-EXISTENCE OF THOSE UNDERGROUND STRUCTURES, UTILITY LINES AND RELATED APPURTENANCES, ANY INDIVIDUAL, COMPANY OR AGENCY USING THIS MAP MUST CONFIRM THE LOCATION OF ALL UNDERGROUND LINES OR STRUCTURES PRIOR TO COMMENCING ANY EXCAVATION.
- 2. THE CONTENT OF THIS MAP WAS DEFINED BY CONTRACT AT THE SPECIFIC REQUEST OF THE CLIENT(S) AND/OR THEIR CONSULTANT(S). THE SURVEYOR ACCEPTS NO LIABILITY FOR USE OF THIS MAP BY ANY ONE OTHER THAN THE CLIENT(S) AND/OR CONSULTANTS FOR WHOM IT



### LOCATION MAP

NO SCALE

#### PROJECT SPECIFIC NOTES

- ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION STANDARDS OF ALL CITIES AND COUNTY OF MARIN UNLESS NOTED
- 2. ALL CRACKED, BROKEN OR UPLIFTED SIDEWALK AND/OR CURB/GUTTER FRONTING THE PROPERTY SHALL BE REPLACED, APPLICANT SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF THE PROJECT IMPROVEMENTS TO IDENTIFY THE EXTENTS AND LIMITS OF SIDEWALK REPLACEMENT, CONTACT DPW AT (415) 388-4033 FOR FURTHER INFORMATION.
- SHOULD CURB/GUTTER REQUIRE REPLACEMENT, CURB/GUTTER SHALL BE REPLACED WITH NEW CONCRETE CURB, GUTTER AND/OR DRIVEWAY APRON TO ENSURE PROPER DRAINAGE IS MAINTAINED. NEW CONCRETE GUTTER TO MATCH EXISTING CONCRETE GUTTER AND MAY REQUIRE ADDITIONAL ASPHALT TO MATCH EXISTING FLOW LINE. DRIVEWAY, CURB AND GUTTER ARE TO BE COORDINATED WITH DEPARTMENT OF PUBLIC WORKS PRIOR TO START OF CONSTRUCTION, CONTACT DPW AT (415)
- 4. AN ENCROACHMENT PERMIT (REVOCABLE) IS REQUIRED FROM THE PUBLIC WORKS DEPARTMENT FOR ALL WORK WITHIN THE RIGHT-OF-WAY. SHOULD A REVOCABLE ENCROACHMENT PERMIT BE REQUIRED, IT SHALL BE RECORDED AT THE MARIN COUNTY RECORDER'S OFFICE PRIOR TO ANY CONSTRUCTION IN THE RIGHT-OF-WAY.
- 5. AN ENCROACHMENT SECURITY IN THE FORM OF A CERTIFICATE OF DEPOSIT (CD) OR CASH IN THE AMOUNT OF WORK TO BE CONSTRUCTED IN THE RIGHT-OF-WAY SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT WITH THE ENCROACHMENT PERMIT.
- APPLICANT IS RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES FOR THE CONSTRUCTION INDUSTRY ("GENERAL CONSTRUCTION AND SITE SUPERVISION" BROCHURE AVAILABLE AT THE DEPARTMENT OF PUBLIC WORKS) TO PREVENT STORM WATER POLLUTION. APPLICANT SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL DAMAGE RESULTING FROM THE CONSTRUCTION OF THIS
- ALL CONSTRUCTION MATERIAL, DEBRIS AND EQUIPMENT SHALL BE STORED ON SITE. IF THAT IS NOT PHYSICALLY POSSIBLE, AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS PRIOR TO PLACING ANY CONSTRUCTION MATERIALS, DEBRIS, DEBRIS BOXES OR UNLICENSED EQUIPMENT IN THE RIGHT-OF-WAY. THE FEE FOR USING THE RIGHT-OF-WAY FOR STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT IS \$10.00 PER DAY IN RESIDENTIAL AREAS, AND \$20.00 PER DAY IN COMMERCIAL AREAS. A MINIMUM OF 12' PASSABLE AUTO TRAFFIC CLEARANCE (PAVED TRAVEL WAY) SHALL BE MAINTAINED AT ALL TIMES ALONG THE ROADWAY. THE PLACING OF PORTABLE REST ROOM FACILITIES IN THE CITY RIGHT-OF-WAY WILL NOT BE PERMITTED.
- 8. ALL SITE DRAINAGE SHALL BE DISSIPATED IN A MANNER THAT PREVENTS EROSION AND CONFORMS TO CURRENT STORM WATER PRACTICES IN MARIN COUNTY, THE APPLICANT IS RESPONSIBLE FOR ENSURING STORM WATER RUNDFF IS MAINTAINED IN ITS NATURAL PATH.
- TREES AND VEGETATION SHALL BE TRIMMED ACCORDING TO SECTION 11.24.090 OF THE MILL VALLEY MUNICIPAL CODE. TREES AND SHRUBS SHALL BE KEPT TRIMMED SO THAT THE LOWEST BRANCHES PROJECTING OVER PUBLIC PROPERTIES PROVIDE A CLEARANCE OF NOT LESS THAN EIGHT (8) FEET. BUSHES AND OTHER VEGETATION SHALL BE TRIMMED SO NO PORTION HANGS OVER THE SIDEWALK, OR THE ROAD IF NO SIDEWALK IS PRESENT.

### **EARTHWORK:**

AREA	CUT	FILL	NET
SITE GRADING	243 CY	19 CY	224 CY CUT
TOTAL	243 CY	19 CY	224 CY CUT (OFFHAUL)

**EASEMENT** 

POINT OF CURVATURE

PCC PORTLAND CEMENT CONCRETE

ABBREVIATIONS/LEGEND					
AB	AGGREGATE BASE	PDE	PRIVATE STORM DRAIN EASEMENT		APPROXIAMTE PROPERTY LIN
AC ANG	ASPHALT CONCRETE ANGLE	PIV P□C	POST INDICATOR VALVE POINT OF CONNECTION		NEIGHBORING PROPERTY LIN
BC	BEGIN CURVE	PSE	PRIVATE SEWER EASEMENT		NEIGHBURING FRUPERIT LIN
В□	BLOW-OFF	PT	PDINT OF TANGENCY		
BSL	BUILDING SETBACK LINE	PUE	PUBLIC UTILITY EASEMENT		CENTERLINE
B∨C B∨C	BACK OF SIDEWALK BEGIN VERTICAL CURVE	PVC PVT	POLYVINYLCHLORIDE PIPE PRIVATE		
BVC	BOTTOM OF RETAINING WALL	R=	RADIUS		BUILDING LINE
CB	CATCH BASIN	R/W	RIGHT OF WAY		GRAVEL DRIVEWAY
CONC	CONCRETE	RCP	REINFORCED CONCRETE PIPE		GKHVEL DKIVEWHI
CPP	CORRUGATED PLASTIC PIPE	RET	RETAINING RETAINING WALL	<u>// // // // // // // // // // // // // </u>	EDGE □F PAVING
CR	CURB RETURN	RPBP	REDUCED PRESSURE BACK FLOW		
DI	DROP INLET	CAD	PREVENTER		CONCRETE CURB & GUTTER
DIP DWY	DUCTILE IRON PIPE DRIVEWAY	2= 2'Y'ท'	SEE ARCHITECTURAL DESIGN SLOPE		
EC I	END CURVE	SD	STORM DRAIN		STDALL MATTLE
EG	EXISTING GROUND	SDCO	STORM DRAIN CLEANOUT		STRAW WATTLE
ELEV	ELEVATION	SDDI	STORM DRAIN DROP INLET		SANITARY SEWER LINE &
EP	EDGE OF PAVEMENT	SDE	PUBLIC STORM DRAIN EASEMENT	——22——22—	SIZE
	EASEMENT	SDMH	STORM DRAIN MANHOLE		
EVC	END VERTICAL CURVE	S.L.D	SEE LANDSCAPE DESIGN	OHW	
FC	EXISTING FACE OF CURB	S.S.D. SS	SEE STRUCTURAL DESIGN SANITARY SEWER	OTTVV	EXISTING OVER HEAD WIRES
FG	FINISH GRADE	22C0	SANITARY SEWER CLEANDUT	x x	EVICTING FENCE LINE CTURE
FS	FINISH SURFACE	SSMH	SANITARY SEWER MANHOLE		EXISTING FENCE LINE (TYPE VARIES)
GB	GRADE BREAK	STA	STATION		VARIESY
HDPE	HIGH DENSITY POLYETHYLENE	STD	STANDARD	——— GAS ——— GAS ———	UNDERGROUND GAS LINE
HT	HEIGHT	SW	SIDEWALK		
MDN	MARIN CO. SEWER DISTRICT	SME	SIDEWALK EASEMENT		DRIP LINE OF TREE OR
MMWD	MARIN MUNICIPAL WATER	TC	TOP OF CURB TOP OF GRATE	J A A A A A 1.	BRUSH LINE
PAE	DISTRICT STANDARD CITY MONUMENT	TG TW	TOP OF RETAINING WALL		OUDEAGE ELEVA DIDECTION
1 11	PRIVATE ACCESS,	TYP	TYPICAL	->->->->->-	SURFACE FLOW DIRECTION
	MAINTENANCE, DRAINAGE,	ÜND	UNLESS NOTED OTHERWISE		
	SIDEWALK, AND UTILITY	W	WATER		PROPOSED STORM DRAIN
	CASCMENT	\./I	VATED I INE		

PROPOSED ROOF DRAIN

WL WATER LINE

WM WATER METER

WS WATER SERVICE

VERTICAL CURVE

1. THE QUANTITIES LISTED ARE THE ENGINEER'S ESTIMATE OF SURFACE GRADING ONLY, ADDITIONAL SUBSURFACE GRADING WILL BE REQUIRED FOR BENCHING, KEYWAYS, ETC.

2. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN EARTHWORK QUANTITIES.

3. NO EXPANSION/CONTRACTION FACTORS HAVE BEEN APPLIED. EXPANSION AND/OR CONTRACTION MAY BE EXPERIENCED DUE TO ACTUAL FIELD CONDITIONS.

4. ANY EXCESS MATERIAL SHALL BE DISPOSED OF ONSITE UNDER THE DIRECTION OF THE PROJECT SOILS ENGINEER AND COORDINATED WITH THE PROJECT CIVIL ENGINEER.

5. APPROX. DISTURBED AREA OF SITE 0.39 AC. (17,111 SF±)

### INDEX OF DRAWINGS

C4 EROSION CONTROL PLAN AND DETAILS

- C1 COVER SHEET
- C2 GRADING PLAN C3 DRAINAGE PLAN
- C5 DETAILS H1 PRE- AND POST-CONSTRUCTION DRAINAGE EXHIBIT

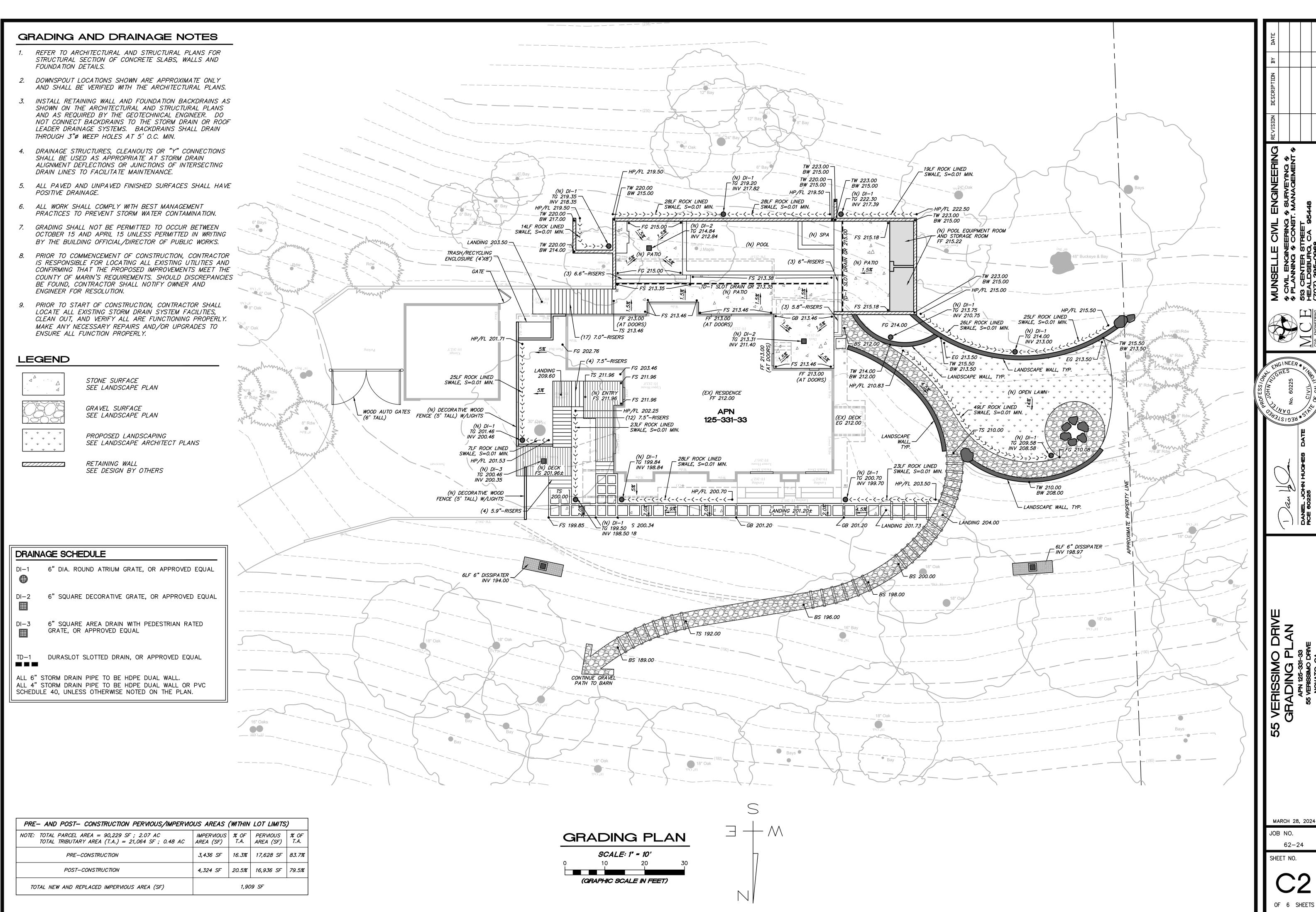




MARCH 28, 2024

JOB NO. 62-24

SHEET NO.



### GRADING AND DRAINAGE NOTES

- 1. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR STRUCTURAL SECTION OF CONCRETE SLABS, WALLS AND FOUNDATION DETAILS.
- 2. DOWNSPOUT LOCATIONS SHOWN ARE APPROXIMATE ONLY AND SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS.
- 3. INSTALL RETAINING WALL AND FOUNDATION BACKDRAINS AS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL PLANS AND AS REQUIRED BY THE GEOTECHNICAL ENGINEER. DO NOT CONNECT BACKDRAINS TO THE STORM DRAIN OR ROOF LEADER DRAINAGE SYSTEMS. BACKDRAINS SHALL DRAIN THROUGH 3"Ø WEEP HOLES AT 5' O.C. MIN.
- 4. DRAINAGE STRUCTURES, CLEANOUTS OR "Y" CONNECTIONS SHALL BE USED AS APPROPRIATE AT STORM DRAIN ALIGNMENT DEFLECTIONS OR JUNCTIONS OF INTERSECTING DRAIN LINES TO FACILITATE MAINTENANCE.
- 5. ALL PAVED AND UNPAVED FINISHED SURFACES SHALL HAVE POSITIVE DRAINAGE.
- 6. ALL WORK SHALL COMPLY WITH BEST MANAGEMENT PRACTICES TO PREVENT STORM WATER CONTAMINATION.
- 7. GRADING SHALL NOT BE PERMITTED TO OCCUR BETWEEN OCTOBER 15 AND APRIL 15 UNLESS PERMITTED IN WRITING BY THE BUILDING OFFICIAL/DIRECTOR OF PUBLIC WORKS.
- 8. PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND CONFIRMING THAT THE PROPOSED IMPROVEMENTS MEET THE COUNTY OF MARIN'S REQUIREMENTS. SHOULD DISCREPANCIES BE FOUND, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER FOR RESOLUTION.
- 9. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL EXISTING STORM DRAIN SYSTEM FACILITIES, CLEAN OUT, AND VERIFY ALL ARE FUNCTIONING PROPERLY. MAKE ANY NECESSARY REPAIRS AND/OR UPGRADES TO ENSURE ALL FUNCTION PROPERLY.

#### LEGEND

STONE SURFACE SEE LANDSCAPE PLAN

GRAVEL SURFACE SEE LANDSCAPE PLAN

\(\psi\) \(\

PROPOSED LANDSCAPING
SEE LANDSCAPE ARCHITECT PLANS

RETAINING WALL SEE DESIGN BY OTHERS

#### DRAINAGE SCHEDULE

6" DIA. ROUND ATRIUM GRATE, OR APPROVED EQUAL

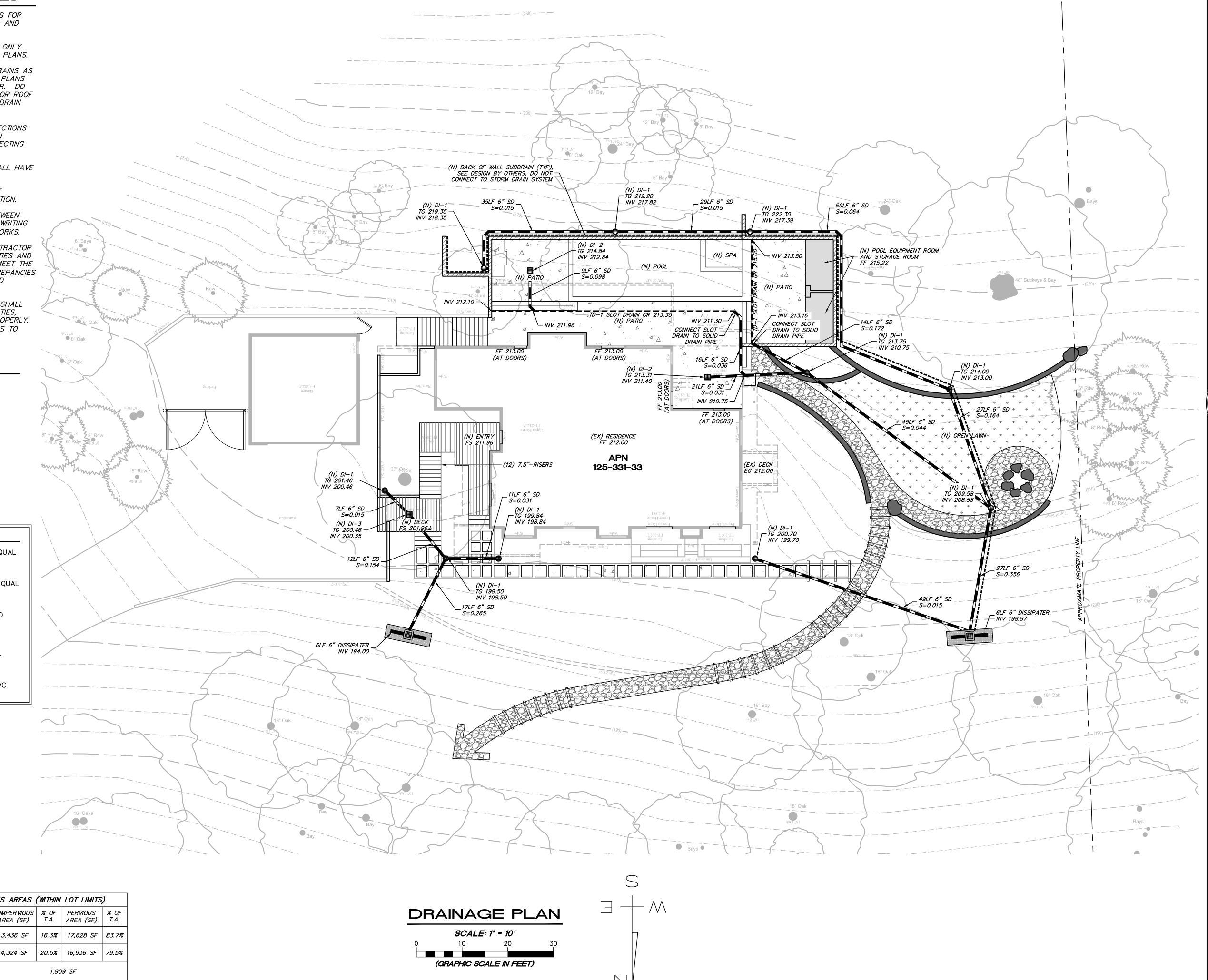
DI−2 6" SQUARE DECORATIVE GRATE, OR APPROVED EQUAL

DI-3

6" SQUARE AREA DRAIN WITH PEDESTRIAN RATED GRATE, OR APPROVED EQUAL

TD-1 DURASLOT SLOTTED DRAIN, OR APPROVED EQUAL

ALL 6" STORM DRAIN PIPE TO BE HDPE DUAL WALL.
ALL 4" STORM DRAIN PIPE TO BE HDPE DUAL WALL OR PVC
SCHEDULE 40, UNLESS OTHERWISE NOTED ON THE PLAN.



?:\MCE JOBS\2024\62-24 55 VERISSIMO DRIVE\DWGS\62-24 IP.DWG 4/15/2024

PRE— AND POST— CONSTRUCTION PERVIOUS/IMPERVIOUS AREAS (WITHIN LOT LIMITS)

NOTE: TOTAL PARCEL AREA = 90,229 SF; 2.07 AC
 TOTAL TRIBUTARY AREA (T.A.) = 21,064 SF; 0.48 AC

PRE—CONSTRUCTION

7,4324 SF

1,909 SF

1,909 SF

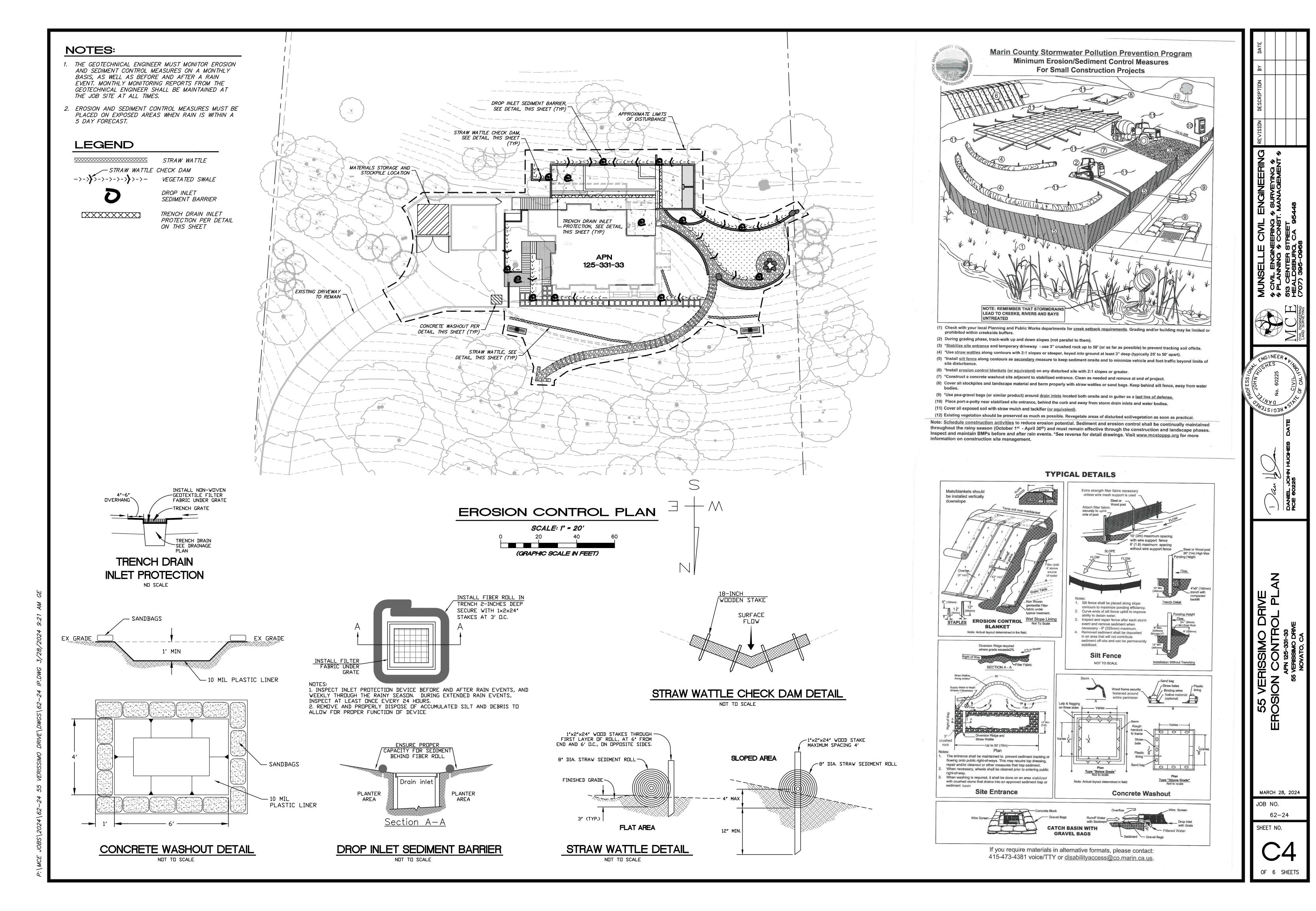
MARCH 28, 2024 JOB NO. 62-24

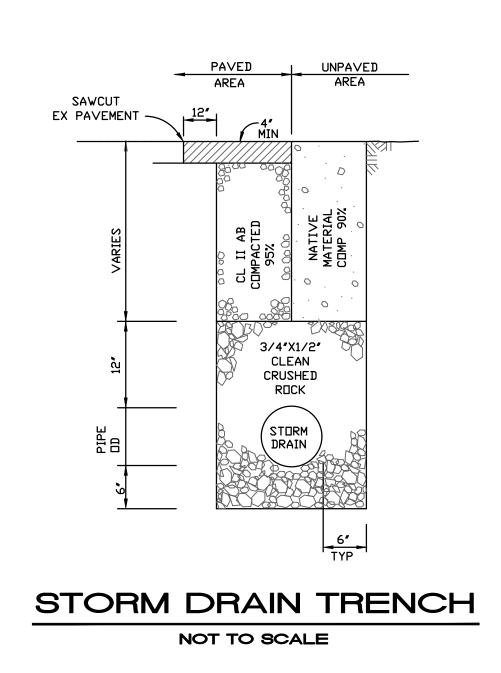
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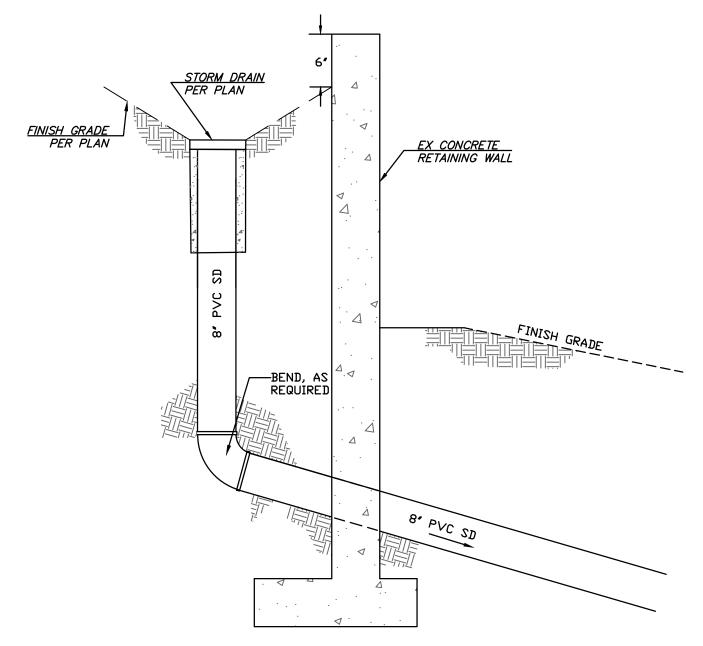
GINEER

RECISIER

OF 6 SHEET





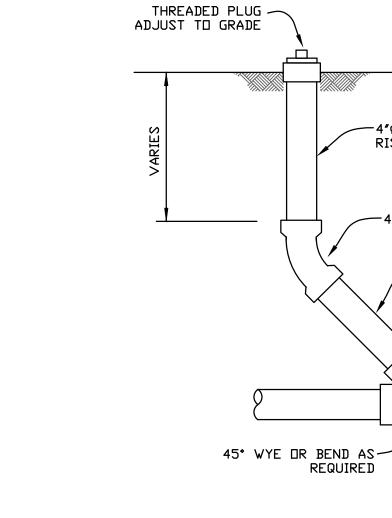




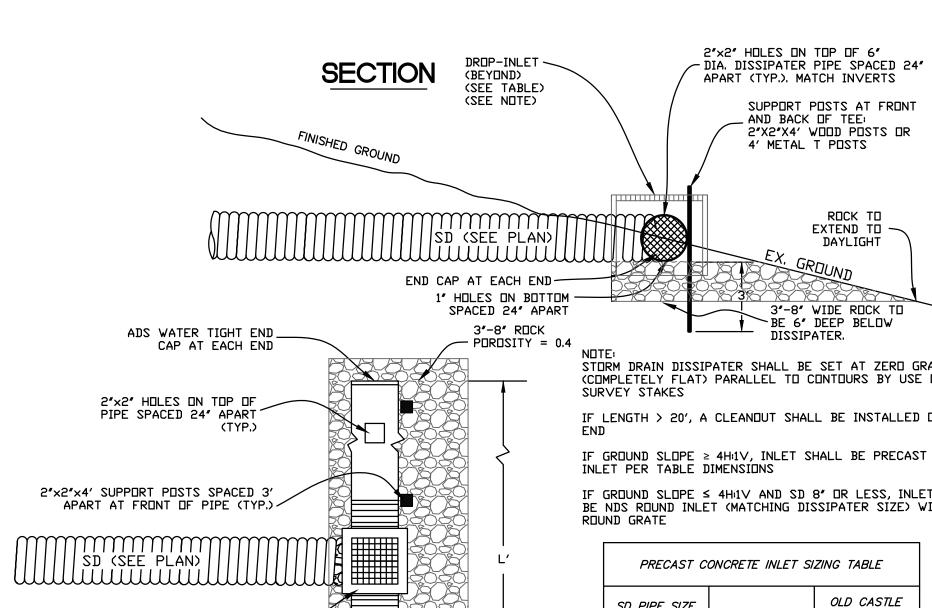
RISER SECTION

RISER SECTION

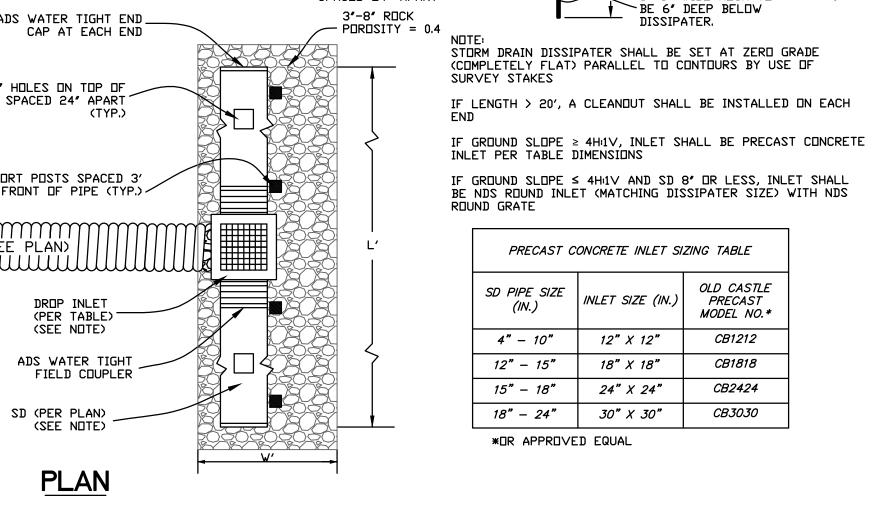
FLOW







0.5" AT DOORS 2" MIN. TO HARDSCAPE — 8" MIN. TO EARTH

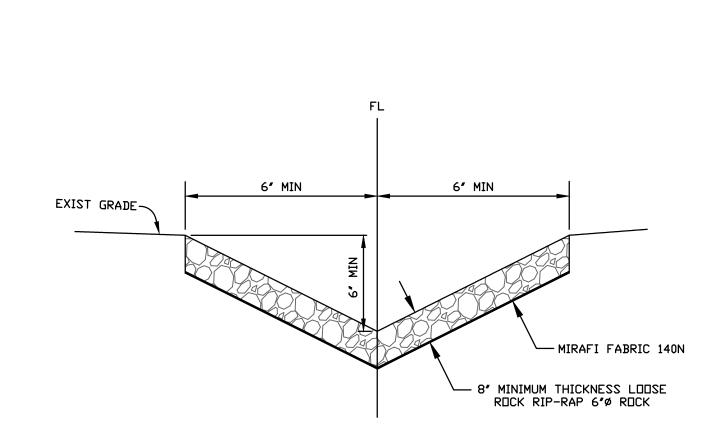


PAD GRADE

TYPICAL GRADING AT RESIDENCE EXTERIOR

NOT TO SCALE

STORM DRAIN DISSIPATER NOT TO SCALE



ROCK LINED SWALE NOT TO SCALE

MARCH 28, 2024 JOB NO.

62-24 SHEET NO.

