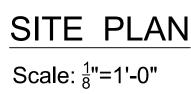
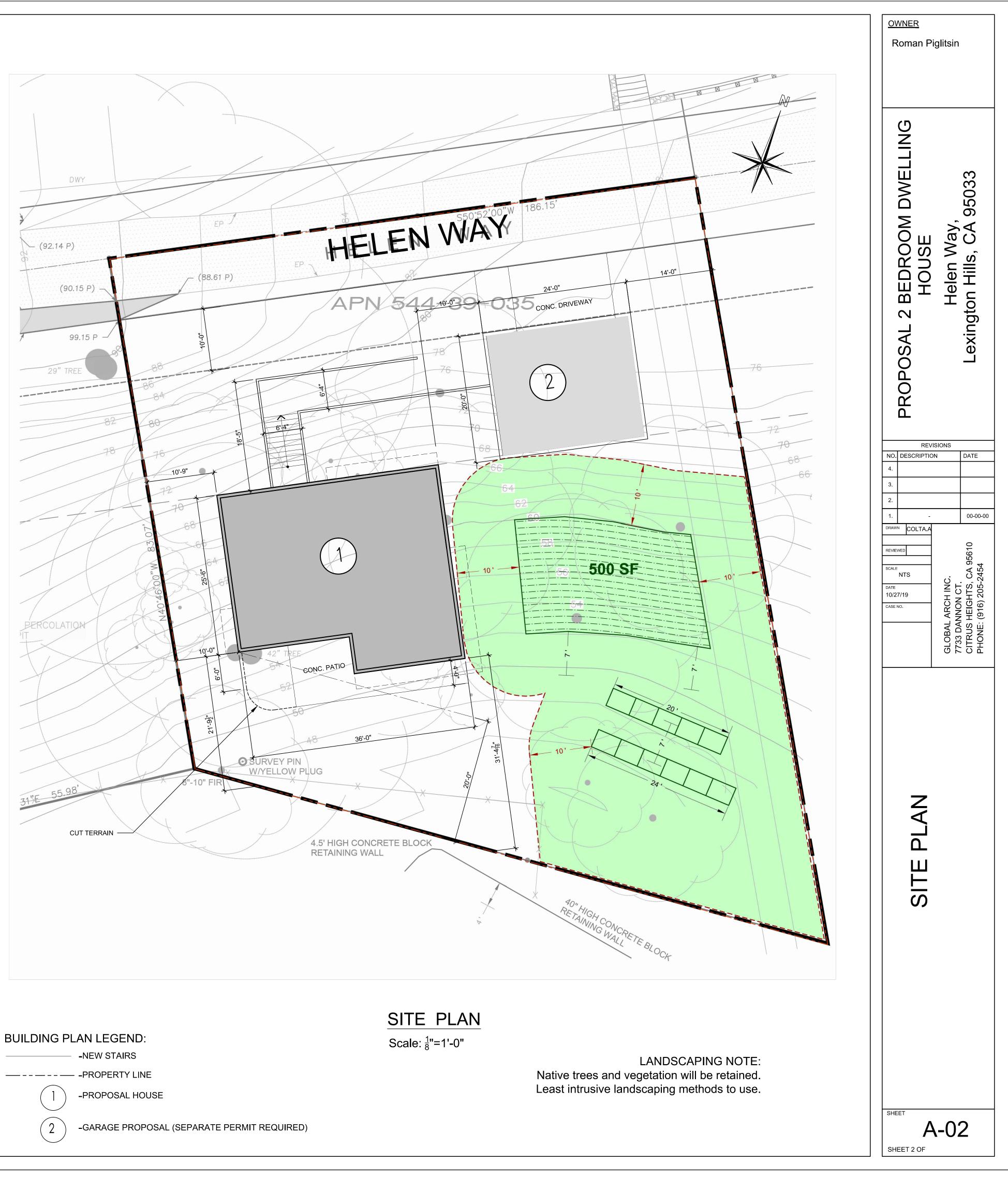
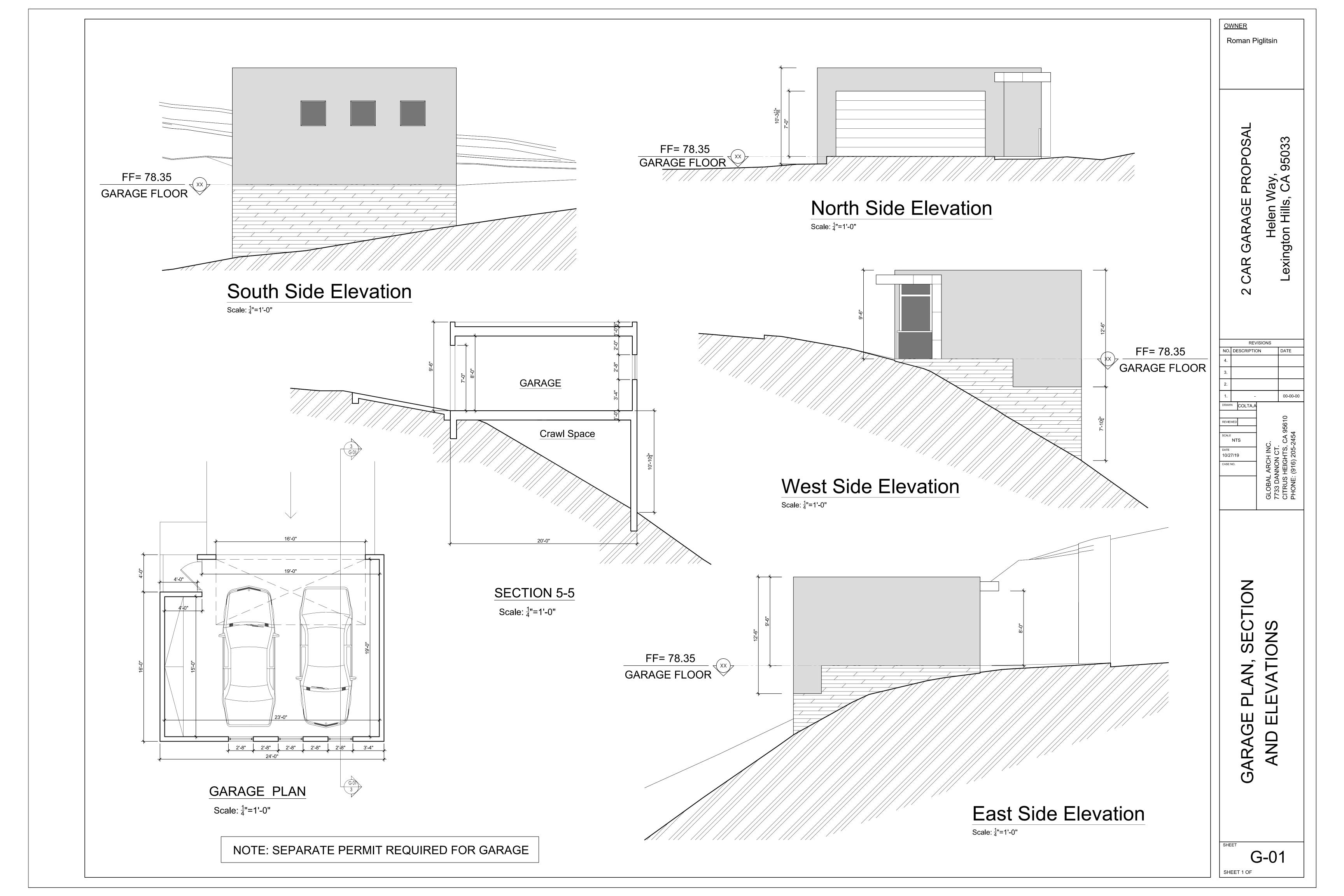
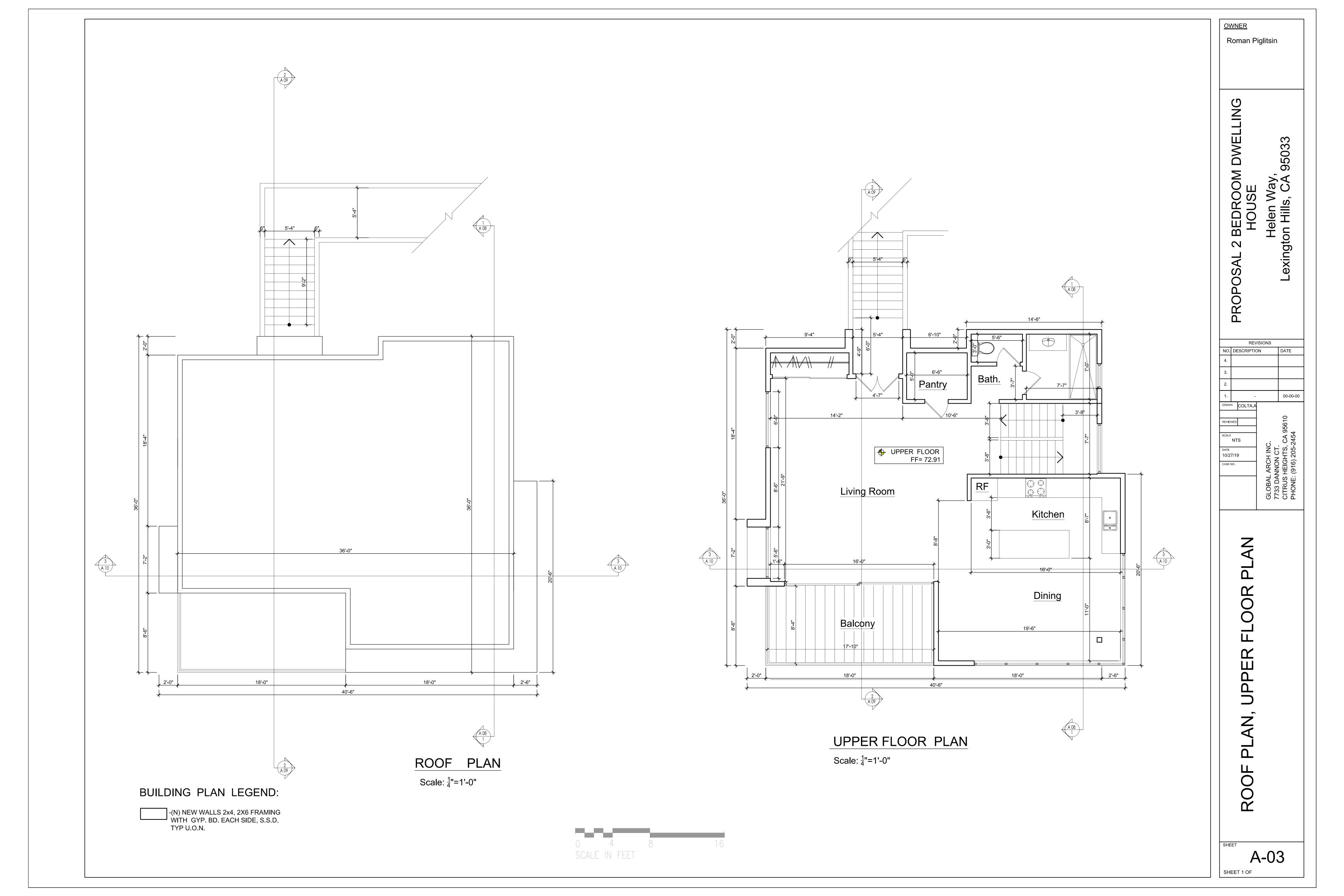


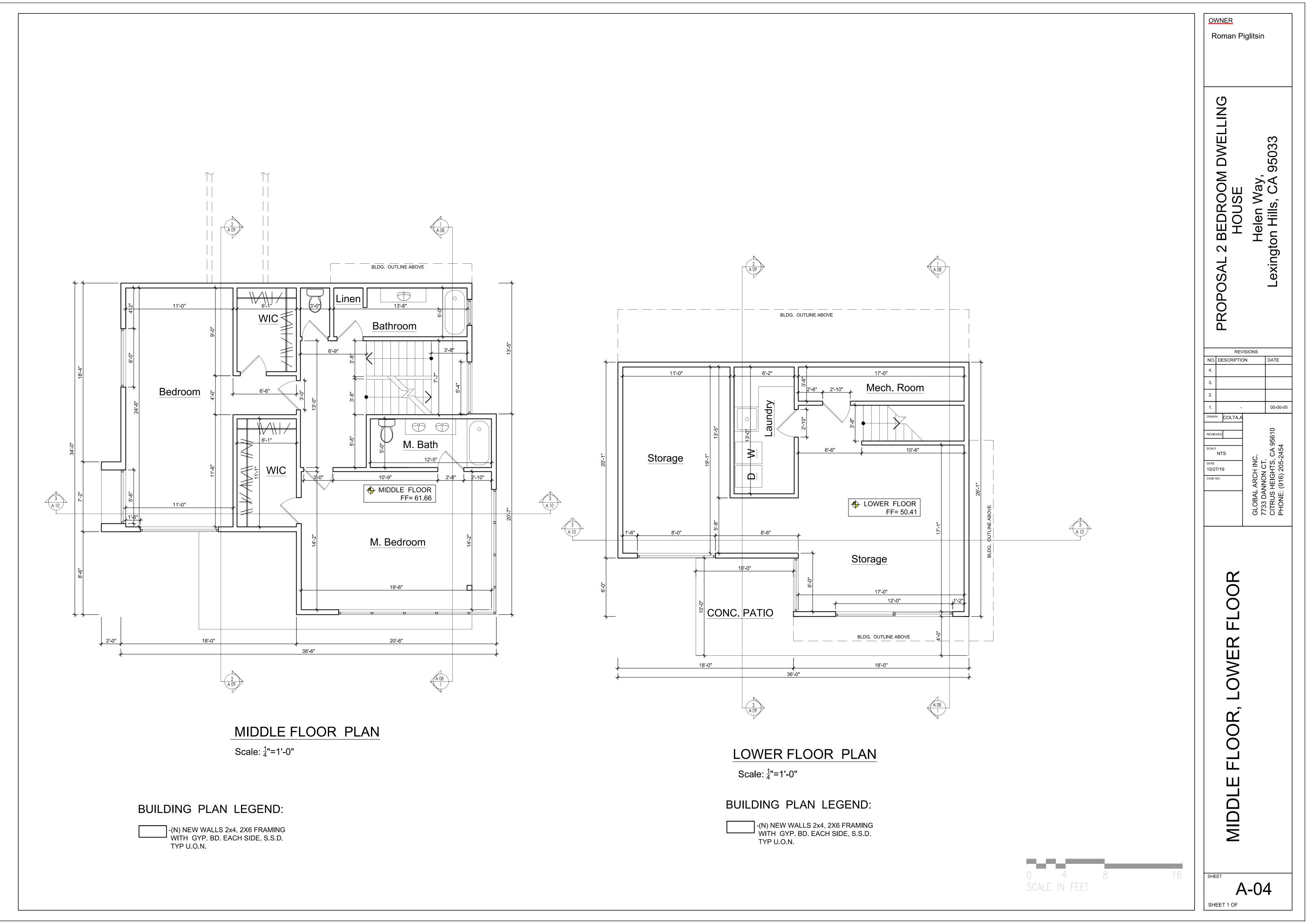
# BUILDING PLAN LEGEND:

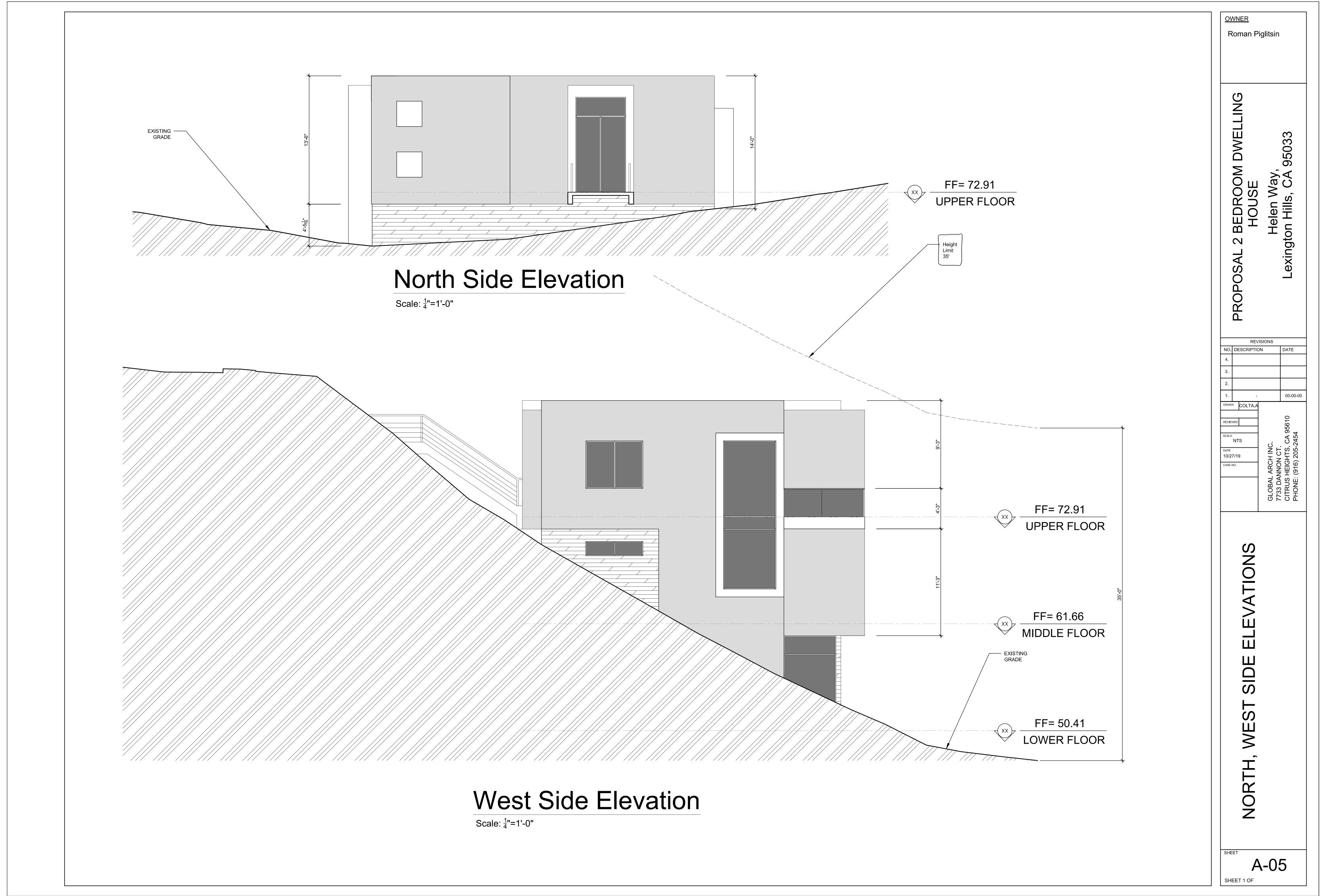




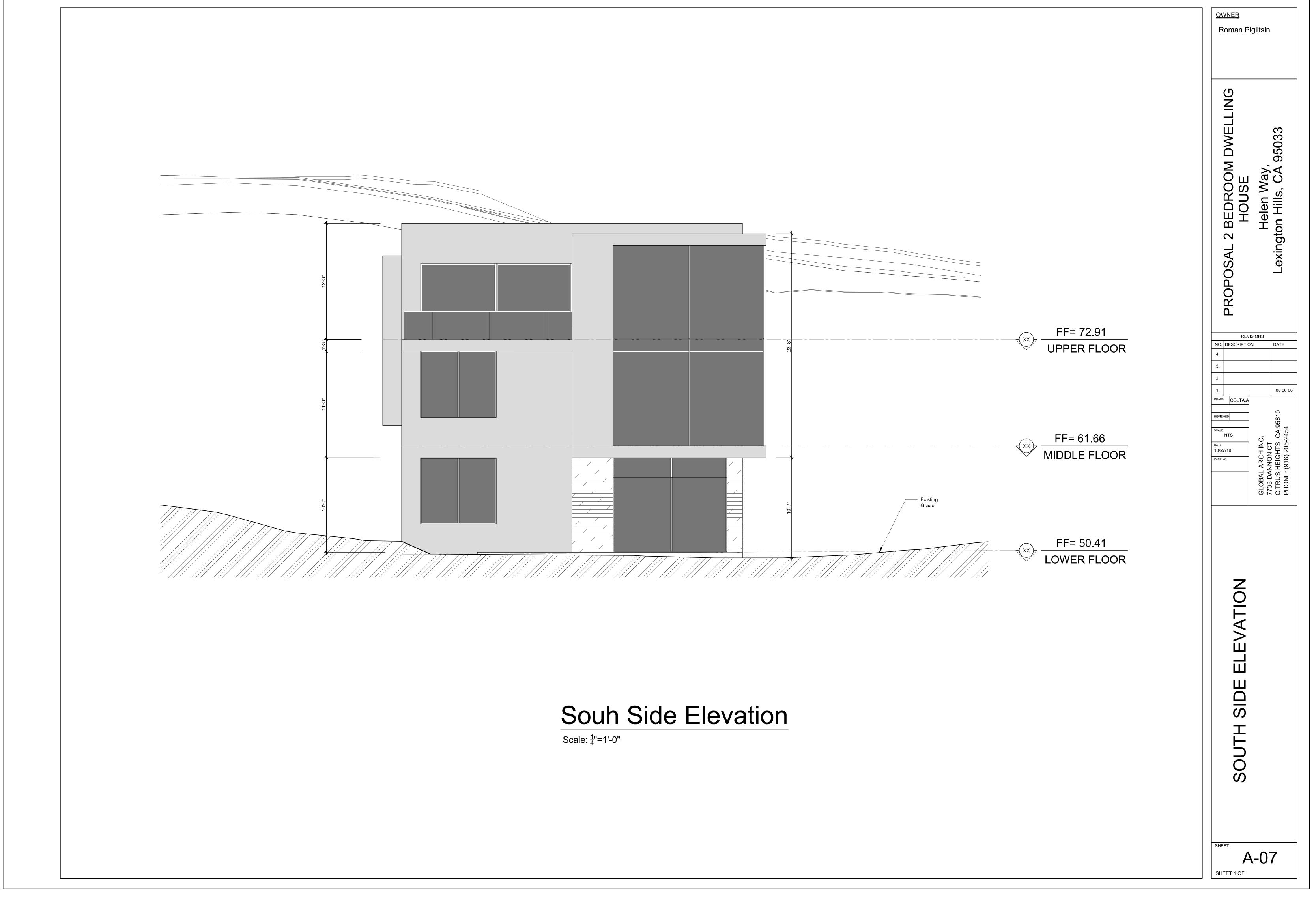


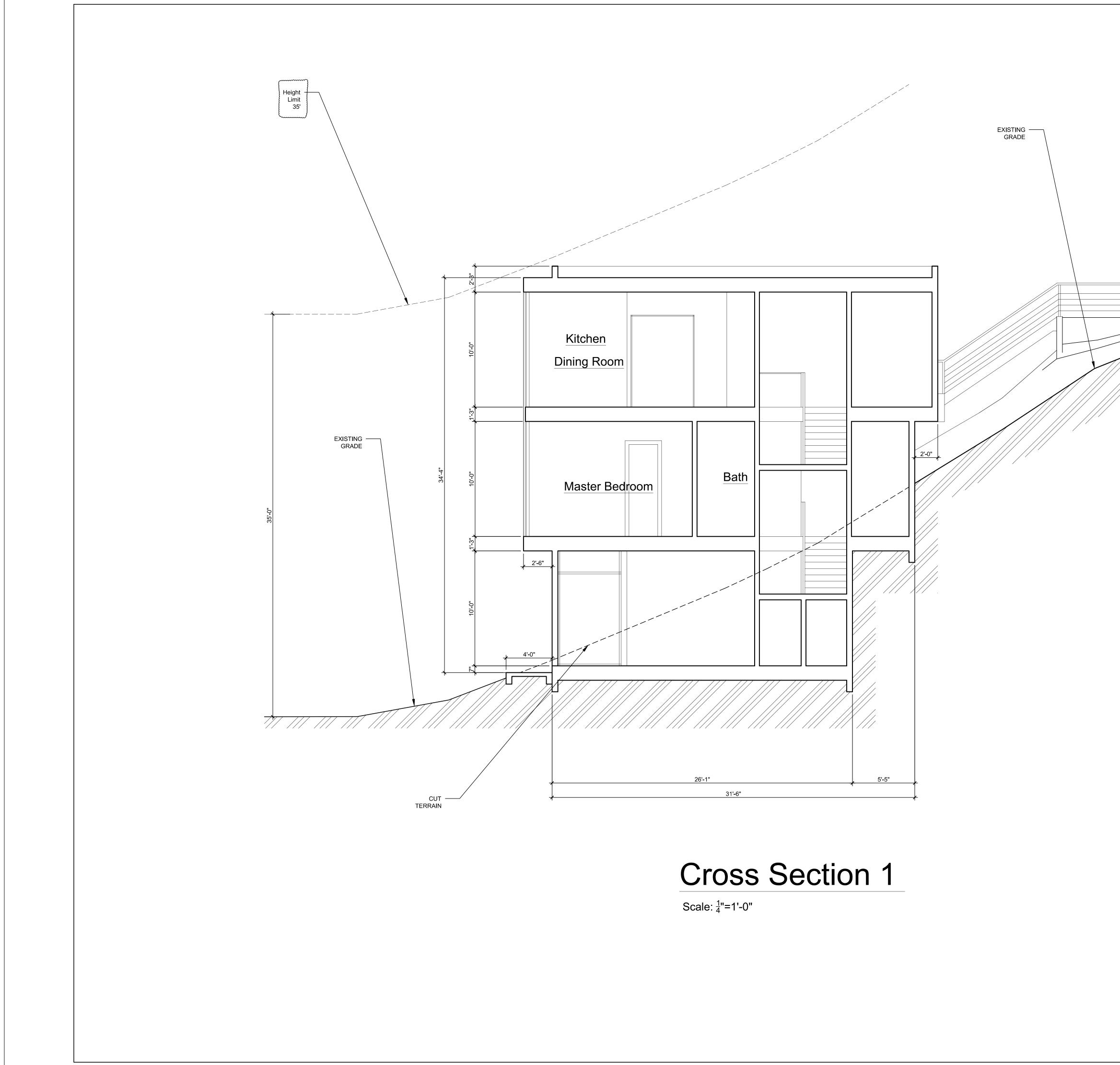




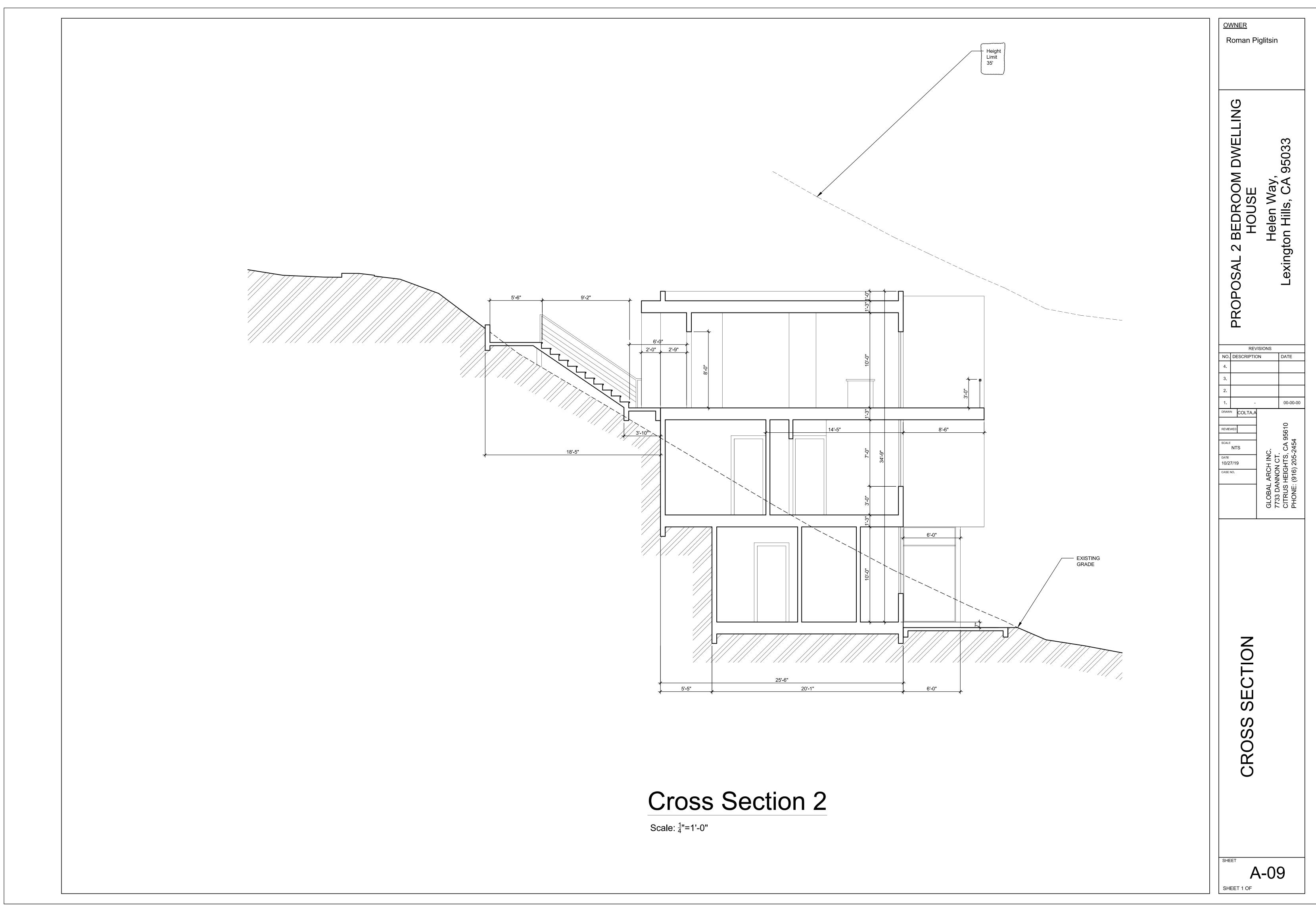


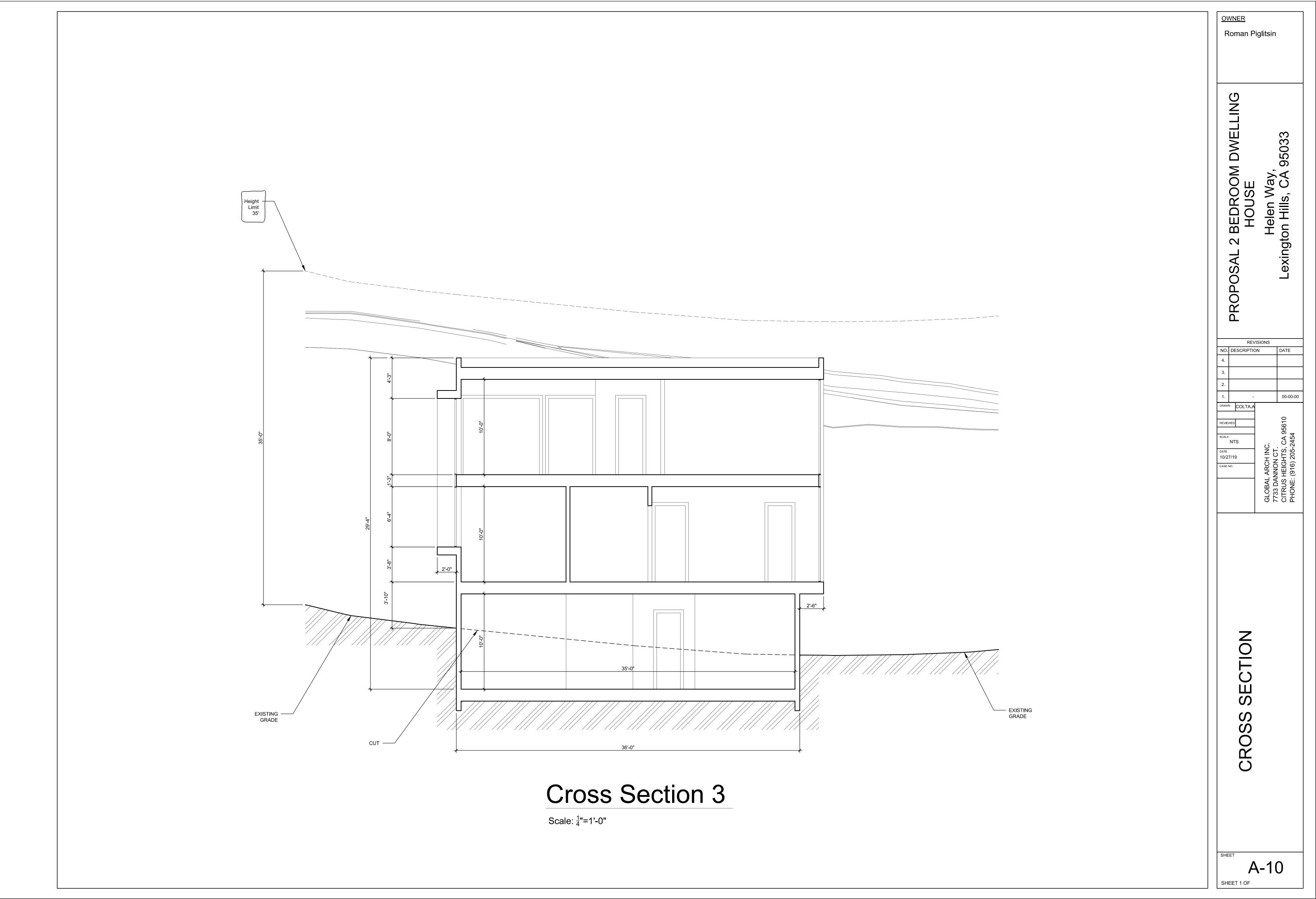






OWNER Roman Piglitsin
PROPOSAL 2 BEDROOM DWELLING HOUSE Helen Way, Lexington Hills, CA 95033
REVISIONS         NO       DESCRIPTION       DATE         4.
CROSS SECTION
SHEET <b>A-08</b> SHEET 1 OF





# PROJECT INFORMATION:

PROJECT NAME:	HELEN WAY
PROJECT ADDRESS:	HELEN WAY LEXINGTON HILLS, CA 95033
APN:	544-039-035
PURPOSE OF GRADING:	NEW RESIDENTIAL DWELLING
ARCHITECT/APPLICANT:	GLOBAL ARCH INC. 7733 DANNON CT. CITRUS HEIGHTS, CA 95610 PHONE: 916–205–2454
CIVIL ENGINEER:	MTR, INC. EMAIL: TESR@EARTHLINK.NET PHONE: 415.602.2290

STRUCTURAL ENGINEER:

# SCOPE OF WORK:

THIS PROJECT INVOLVES CONSTRUCTION OF THE NEW RESIDENTIAL DWELLING.

# <u>QUANTITIES:</u>

LOT AREA:	9,946 ± SF
PRE-PROJECT IMPERVIOUS SURFACE	0 SF
POST-PROJECT IMPERVIOUS SURFACE	2,350 SF
AREA OF DISTURBANCE	3,250 SF
CUT	300 CY
FILL	50 CY

# <u>SHEET INDEX:</u>

SHT NO.	DESCRIPTION
C1.0	LEGEND & SITE PLAN
C1.1	GENERAL NOTES & DRAINAGE PLAN
C1.2	GENERAL NOTES & GRADING PLAN
C1.3	UTILITY PLAN
C2.0	DETAILS
C2.1	DETAILS
C2.2	DETAILS
C2.3	ROAD SECTIONS & PROFILE
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTROL DETAILS

# LEGEND & ABBREVIATIONS:

	PROPERTY LINE				
×103.85	EXISTING SPOT ELEVATION				
	EXISTING BUILDING FOOTPRINT				
/////	NEW BUILDING FOOTPRINT				
	TREE				
4 4 4 4 4 4 4 4 4 4	(E) CONCRETE				
A A A A A A A A A A A A A A A A A A A	(E) LAWN				

/////////

(E)

SD

FFE

0

 $\sim$ 

DS

CO

OF

DG

(N) CONCRETE ASPHALTIC CONCRETE 

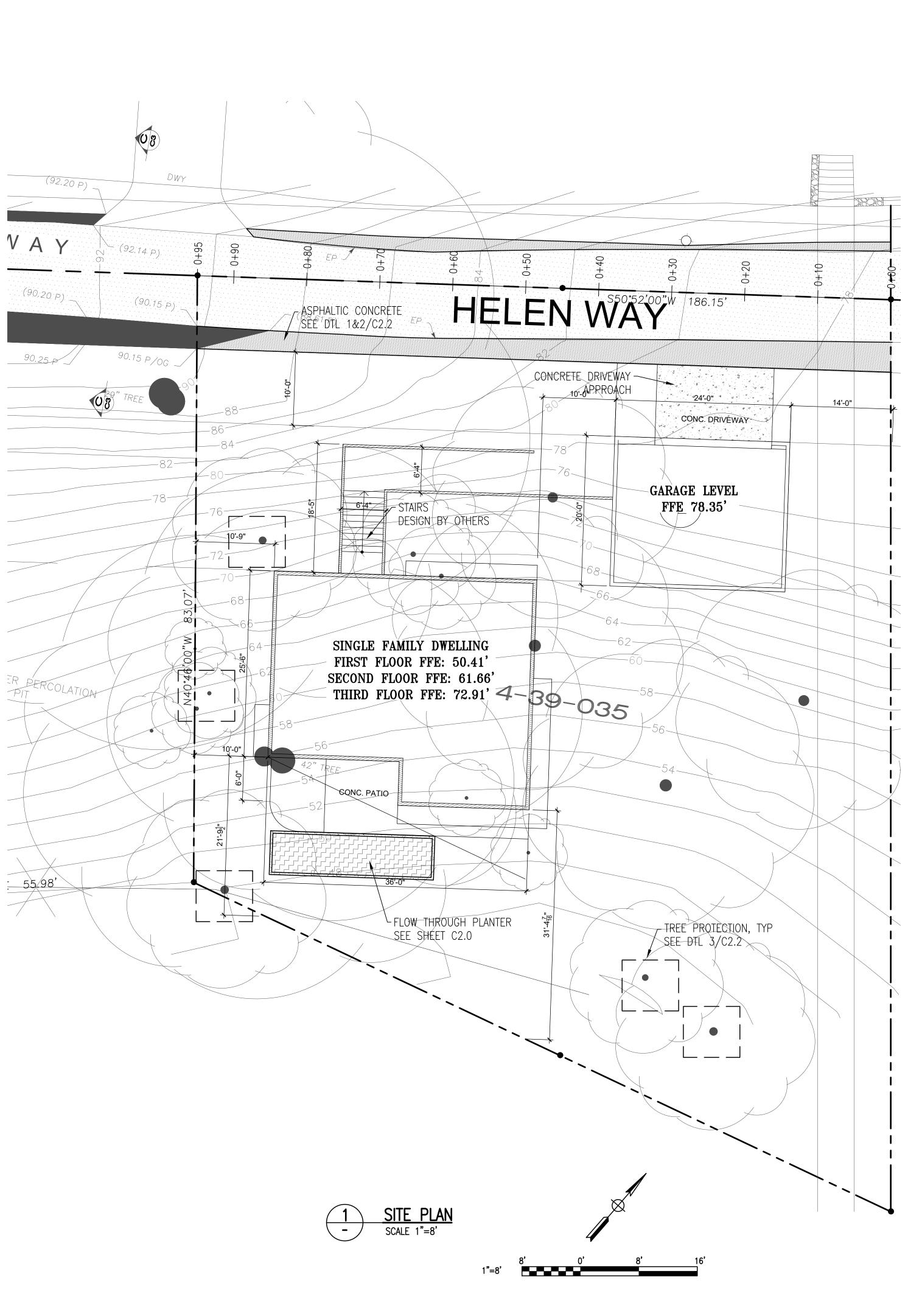
BIORETENTION PLANTER

### WALL

-	STORM DRAIN LINE
-	PERFORATED DRAIN LINE
	NEW
	EXISTING
	STORM DRAIN
	FINISHED FLOOR ELEVATION
	ROOF DOWNSPOUT
	SURFACE FLOW
	DIRECTION FLOW
	DOWNSPOUT
	CLEANOUT
	AREA DRAIN
	INVERT
	OVERFLOW
	DECOMPOSED GRANITE

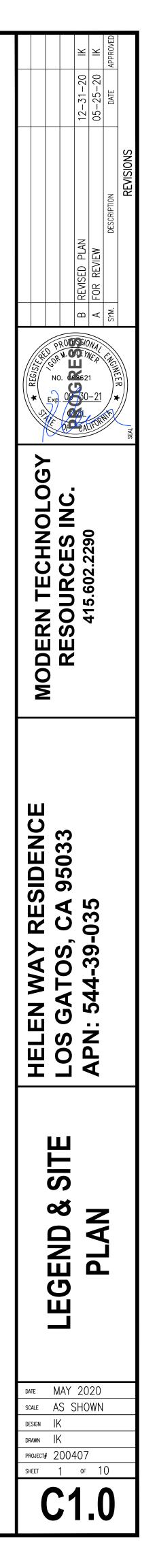
### LEGEND AND ABBREVIATIONS:

	PROPERTY LINE
	SOLID PIPE
	PERF PIPE
	FOUNDATION PERF PIP
· · ·	EASEMENT
· · · ·	SWALE
SD	STORM DRAIN
———W———	WATER
G	GAS
SS	SEWER
— T	TELECOM
—— FD ——	FOUNDATION DRAIN
	FLOW DIRECTION
~~~	SURFACE FLOW
2.0%	SLOPE
_−XXX	SPOT ELEVATION
/ 0	CLEAN OUT
0	AREA DRAIN
0	DOWNSPOUTS



- (E) EXISTING TYP TYPICAL VIF VERIFY IN FIELD PIPE SD STORM DRAIN AD AREA DRAIN ROOF LEADER RL PL PROPERTY LINE FG FINISH GRADE CO CLEAN OUT DS DOWNSPOUTS
- TC TOP OF CURB FL FLOW LINE





### <u>GRADING:</u>

- 1. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT THE CONTRACTORS EXPENSE.
- 2. ALL WORK SHALL CONFORM TO RECOMMENDATIONS SPECIFIED IN THE GEOTECHNICAL REPORT.
- 3. ALL GRADING SHALL CONFORM TO THE JURISDICTION ORDINANCE CODE REGULATIONS FOR EXCAVATING, GRADING, FILLING AND CLEARING ON LANDS.
- 4. THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING GROUND.
- 5. ACTUAL GRADING SHALL BEGIN WITHIN 30 DAYS OF VEGETATION REMOVAL OR THE AREA SHALL BE PLANTED TO CONTROL EROSION. SURFACE PLANT GROWTH ONLY AND WHICH DOES NOT EXCEED 4 INCHES IN DEPTH.
- 6. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY, BETWEEN OCTOBER 15 AND APRIL 15.
- 7. CONTRACTOR SHALL NOTIFY THE DIRECTOR OR PUBLIC WORKS AT LEAST 48 HOURS PRIOR TO THE FOLLOWING INSPECTIONS: INITIAL INSPECTION OF GRADE STAKING, ROUGH GRADING INSPECTION, STORM/SUB DRAINAGE INSPECTION, FINAL INSPECTION AND APPROVAL.
- 8. A COPY OF ALL COMPACTION TESTS AND FINAL GRADING REPORT SHALL BE SUBMITTED TO THE JURISDICTION PRIOR TO SCHEDULING ANY INSPECTIONS.
- 9. DRAINAGE WILL BE A MINIMUM OF 5% AWAY FROM THE HOUSE FOR A MINIMUM OF 10 FEET OR AS SHOWN ON PLAN.
- 10. POLYVINYL CHLORIDE PIPE SHALL CONFORM WITH ASTM D 3034, SDR 35 OR EQUIVALENT.
- 11. CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO PERFORM THE WORK SHOWN ON THIS PLAN.
- 12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND SHALL NOTIFY THE ENGINEER OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 13. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. THE DESIGN ENGINEER WILL CLARIFY DISCREPANCIES OR OMISSIONS, IN WRITING, WITHIN A REASONABLE TIME.
- 14. CONTRACTOR SHALL MINIMIZE THE VOLUME OF RECYCLABLE MATERIALS SENT TO AREA LANDFILLS.
- 15. THE EXPORTED SOILS FROM THIS SITE SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION ACCEPTABLE TO THE JURISDICTION FOLLOWING THE REQUIREMENTS OF ALL APPLICABLE COUNTY, STATE, AND FEDERAL LAWS OR ORDINANCES.
- 16. SOIL COMPACTION SHALL BE A MINIMUM OF 90% RELATIVE COMPACTION FOR HARDSCAPE SURFACES.

### **EXISTING CONDITIONS:**

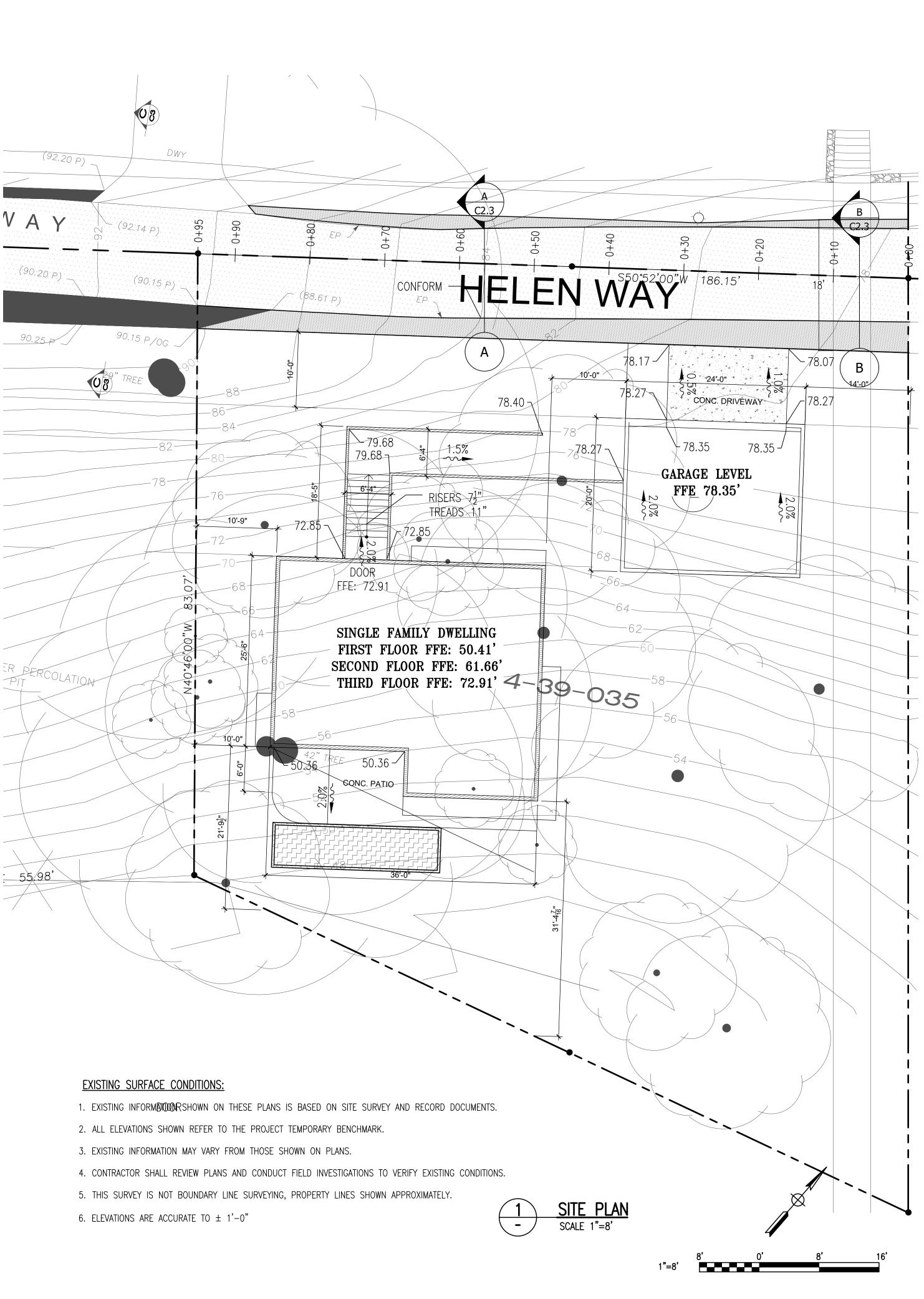
- 1. EXISTING INFORMATION SHOWN ON THESE PLANS IS BASED ON SITE SURVEY.
- 2. ALL ELEVATIONS SHOWN REFER TO THE PROJECT VERTICAL DATUM.

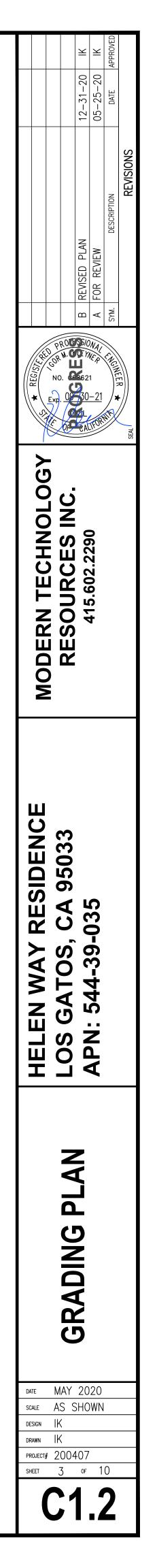
### <u>GEOTECHNICAL NOTE:</u>

ALL WORK TO COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION PREPARED FOR THE PROJECT SITE.

### EXISTING UNDERGROUND UTILITIES:

- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS IN A MANNER WHICH WILL NOT NEGATIVELY AFFECT ANY EXISTING USERS OF THESE UTILITIES.
- 2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, INCLUDING BUT NOT LIMITED TO: WATER, SEWER, GAS, ELECTRIC & TELECOMMUNICATIONS, LOCATIONS, INVERTS AND CONDITIONS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN ON THE PLANS AND REQUIRING MODIFICATIONS TO THE DESIGN SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION. DIFFERING UTILITY CONDITIONS THAT ARE ENCOUNTERED BY THE CONTRACTOR. THAT REQUIRE MODIFICATION OF DESIGN THAT ARE NOT BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT NO ADDITIONAL COST.
- 3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES INCLUDING, BUT NOT LIMITED TO SANITARY SEWER, STORM SEWER, DOMESTIC WATER, FIRE WATER, IRRIGATION WATER. GAS SERVICE. ELECTRICAL SERVICE. AND TELECOMMUNICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS AND LOCATIONS ARE ACHIEVED AS WELL AS COORDINATING WITH THE GOVERNING UTILITY COMPANIES FOR APPROVAL OF UTILITY LOCATIONS AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
- 4. THE LOCATION OF EXISTING ELECTRICAL MAINS ARE APPROXIMATE. THE CONTRACTOR MUST CONSULT WITH PG&E FOR ADDITIONAL INFORMATION. ALL PROPOSED ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES AND PG&E REQUIREMENTS. MINIMUM DEPTH OF COVER OVER ELECTRICAL, GAS AND TELECOMMUNICATIONS SHALL BE TWO FEET. CONTRACTOR SHALL COORDINATE WITH PGE FOR NEW ELECTRIC SERVICE. CONTRACTOR SHALL COORDINATE WITH TELECOM PROVIDER FOR NEW TELECOM SERVICE.
- 5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE NEW WATER SERVICE.
- 6. THE CONTRACTOR SHALL COORDINATE FOR TELECOM SERVICES FOR NEW SERVICE.





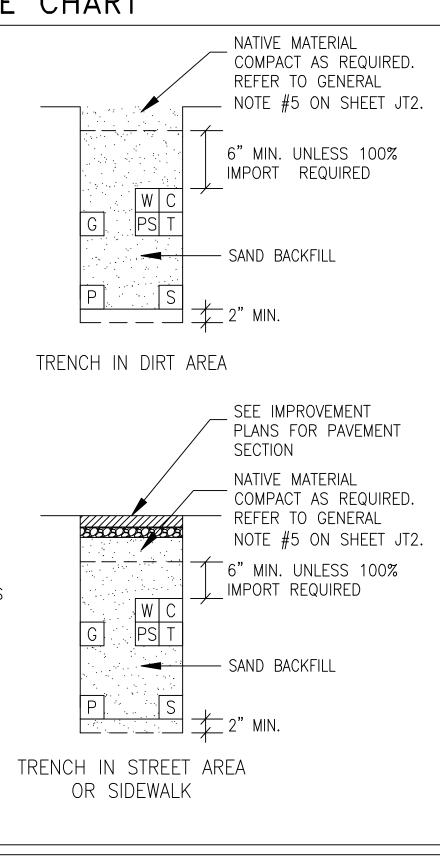
SHEET NOTES:	GENERAL
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS IN A MANNER WHICH WILL NOT NEGATIVELY AFFECT ANY EXISTING USERS OF THESE UTILITIES.	1. TRENCH CONF WHERE EACH ALLOCATION. DIMENSIONS, AND CLEARAN
2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, INCLUDING BUT NOT LIMITED TO: WATER, SEWER, GAS, ELECTRIC & TELECOMMUNICATIONS, LOCATIONS, INVERTS AND CONDITIONS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN ON THE PLANS AND REQUIRING MODIFICATIONS TO THE DESIGN SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION. DIFFERING UTILITY CONDITIONS THAT ARE ENCOUNTERED BY THE CONTRACTOR, THAT REQUIRE MODIFICATION OF DESIGN THAT ARE NOT BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT NO ADDITIONAL COST.	2. CONTRACTOR TRENCH LATE CLEARANCES 3. TRENCH SECT AREAS OF OC
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES INCLUDING, BUT NOT LIMITED TO SANITARY SEWER, STORM SEWER, DOMESTIC WATER, FIRE WATER, IRRIGATION WATER, GAS SERVICE, ELECTRICAL SERVICE, AND TELECOMMUNICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS AND LOCATIONS ARE ACHIEVED AS WELL AS COORDINATING WITH THE GOVERNING UTILITY COMPANIES FOR APPROVAL OF UTILITY LOCATIONS AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.	SIZE OR QUA ARE DESIGNEI AS SHOWN O DRAWINGS.
4. THE LOCATION OF EXISTING ELECTRICAL MAINS ARE APPROXIMATE. THE CONTRACTOR MUST CONSULT WITH PG&E FOR ADDITIONAL INFORMATION. ALL PROPOSED ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES AND PG&E REQUIREMENTS. MINIMUM DEPTH OF COVER OVER ELECTRICAL, GAS AND TELECOMMUNICATIONS SHALL BE TWO FEET AND EIGHT INCHES. CONTRACTOR SHALL COORDINATE WITH PGE FOR NEW ELECTRIC SERVICE.	
5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE NEW WATER SERVICE AND WATER METER COORDINATE PURISSIMA HILLS WATER DISTRICT.	
6. THE CONTRACTOR SHALL COORDINATE FOR TELECOM SERVICES LISTED COMPANIES BELOW FOR NEW SERVICES OR/AND TOWN OF LOS ALTOS HILLS:	
COMCAST FOR CABLE TELEVISION. INTERNET EXEDE INTERNET AND VIASAT. AT&T FOR TELEPHONE SERVICES.	

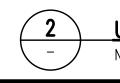
		MI	NII	ML	JM	С	0	VE	R &	CLEAR	ANCE	CH
UTILITY	G	Т	С	S	Ρ	PUB SL	PGE SL	F	MINIMU	JM COVER		
G (GAS) SEE NOTE 3 & 4		12"	12"	6"	12"	12"	6"	12"	24"; 30	)" IN STREET		;
T (TELEPHONE)	12"		1"	12"	12"	12"	12"	1"	24"; 30	)" IN STREET		
C (CABLE T.V.)	12"	1"		12"	12"	1"	12"	1"	24"; 30	)" IN STREET		
S (ELECT. SECONDARY)	6"	12"	12"	1.5"	3"	12"	1.5"	12"	24"; 30	)" IN STREET		ľ
P (ELECT. PRIMARY)	12"	12"	12"	3"	3"	12"	3"	12"	36"; 36	S" IN STREET		
*SL (PUBLIC-STREET LIGHT)	12"	12"	1"	12"	12"		12"	1"	24"; 30	)" IN STREET		ŀ
SL (PG&E-STREET LIGHT)	6"	12"	12"	1.5"	3"	12"		12"	24"; 30	)" IN STREET		Ē
F (CITY-FIBER OPTIC)	12"	1"	1"	12"	12"	1"	12"		24"; 30	)" IN STREET		TRENC
	1	1	I	I	1	I	1	I	1			

# HART

### <u>NOTE:</u>

- 1. TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
- 2. IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUBBASE DISTURBANCE.
- 3. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, WHEN 4" O.D. OR SMALLER GAS PIPE IS INSTALLED, SEPARATION MAY BE REDUCED TO NOT LESS THAN 6" BETWEEN GAS AND COMMUNICATION DUCTS (TELEPHONE, CATV & FIBER OPTIC).
- 4. WHERE 6" GAS MAIN IS IN JOINT TRENCH 12" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
- 5. 3" MINIMUM BETWEEN 600A (6") MAINLINE PRIMARY ELECTRIC DUCTS.
- \* 6. WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, ST. LT. SEPARATION MAY BE REDUCED TO O" BETWEEN ST. LT. AND COMMUNICATION DUCTS (TELEPHONE, CATV. & FIBER OPTIC).





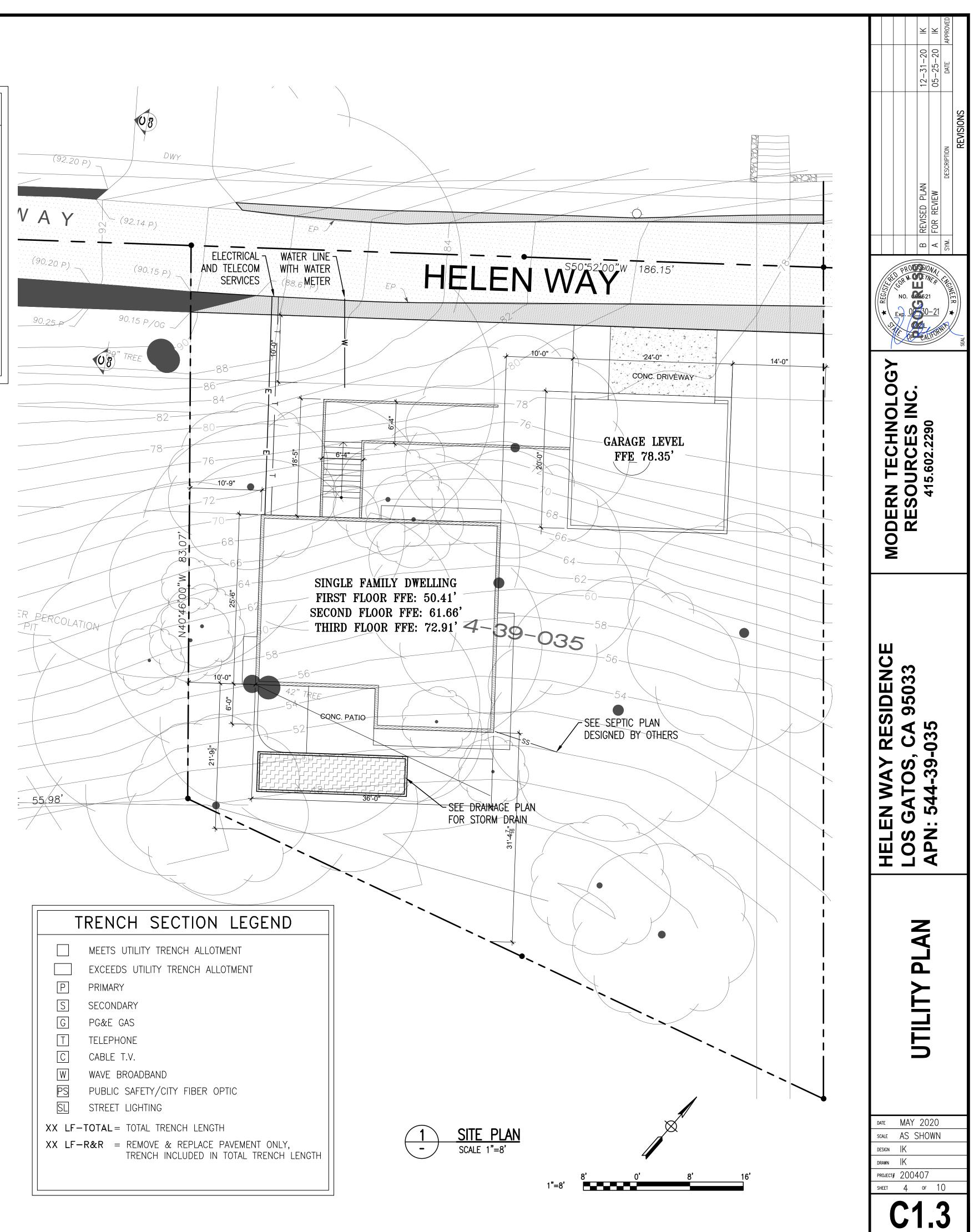


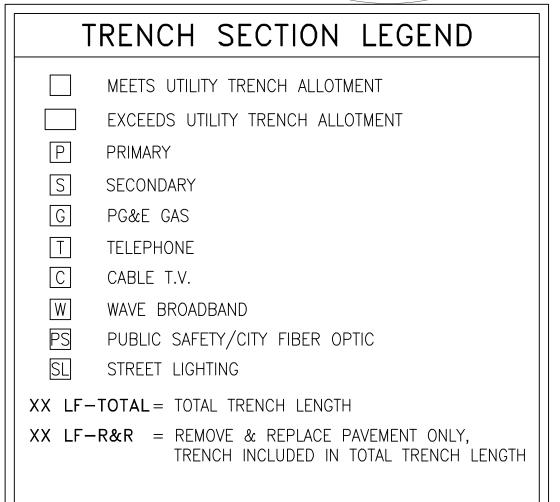
# TRENCH SECTION NOTES

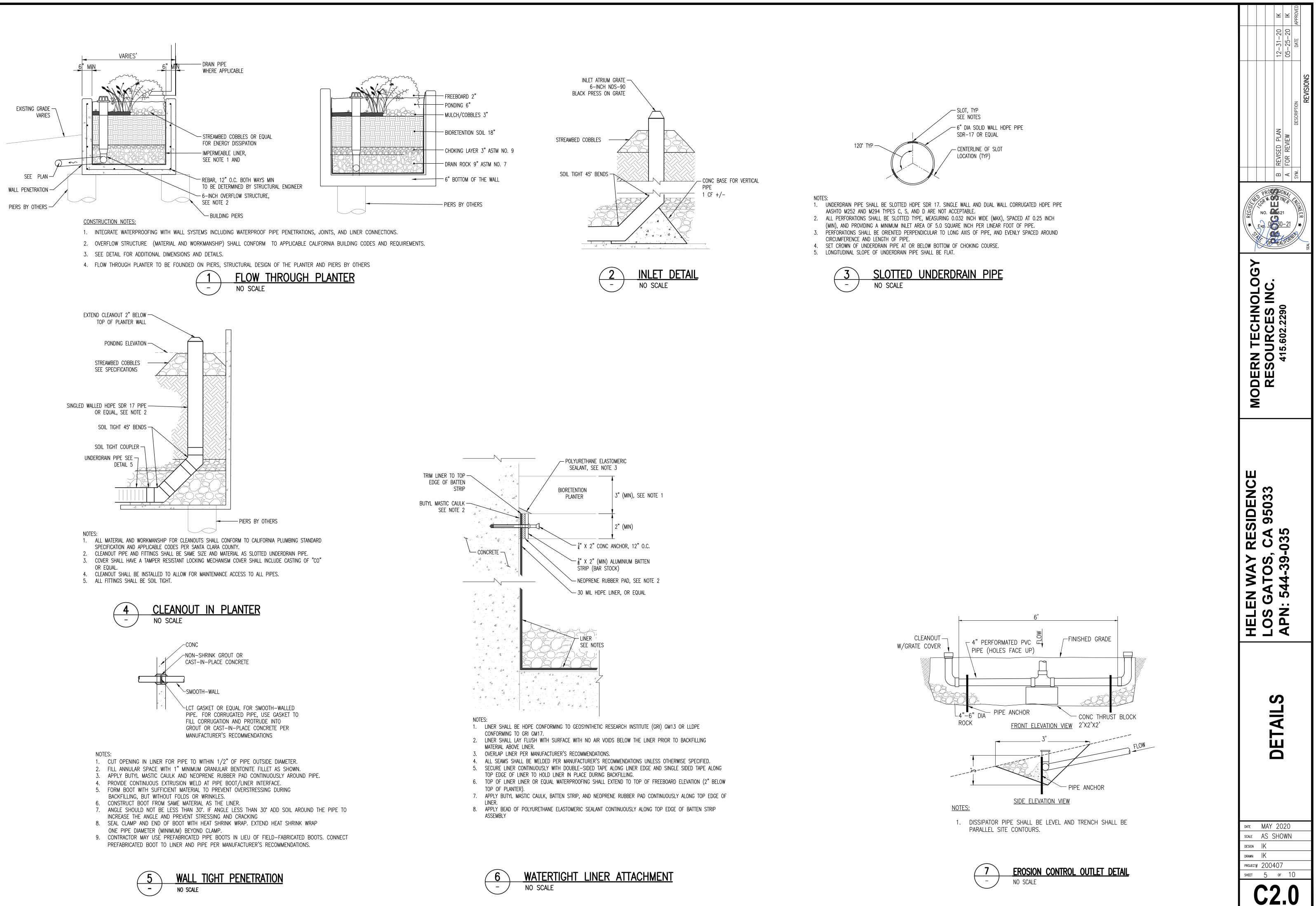
FIGURATIONS SHOWN ARE FOR INSTALLATIONS OCCUPANT IS UTILIZING HIS ENTIRE SPACE OTHER CONFIGURATIONS, OR REDUCED MAY BE USED PROVIDED THAT MINIMUM COVER NCES ARE MAINTAINED.

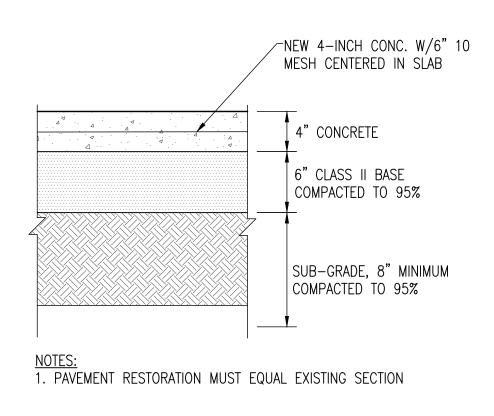
TO ADJUST TRENCH DEPTHS AT ALL JOINT ERAL CROSSINGS TO MAINTAIN REQUIRED BETWEEN ALL PARTICIPATING UTILITIES.

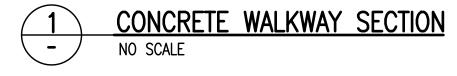
TIONS SHOWN ARE SCHEMATIC AND INDICATE CCUPANCY ONLY, THEY DO NOT REFLECT THE ANTITY OF THE FACILITIES BEING INSTALLED AND ED TO ACCOMMODATE ALL REQUIRED FACILITIES ON EACH TRENCH PARTICIPANTS' CONSTRUCTION

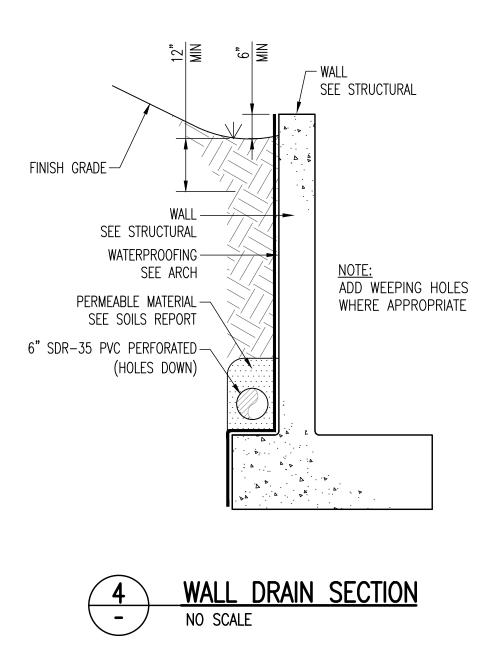


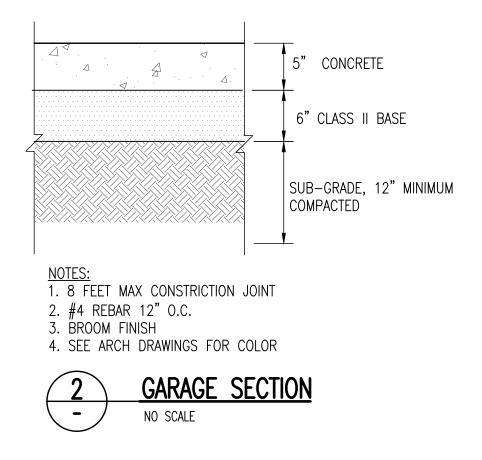


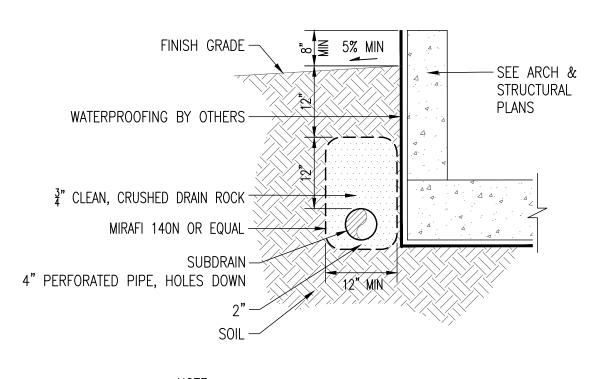






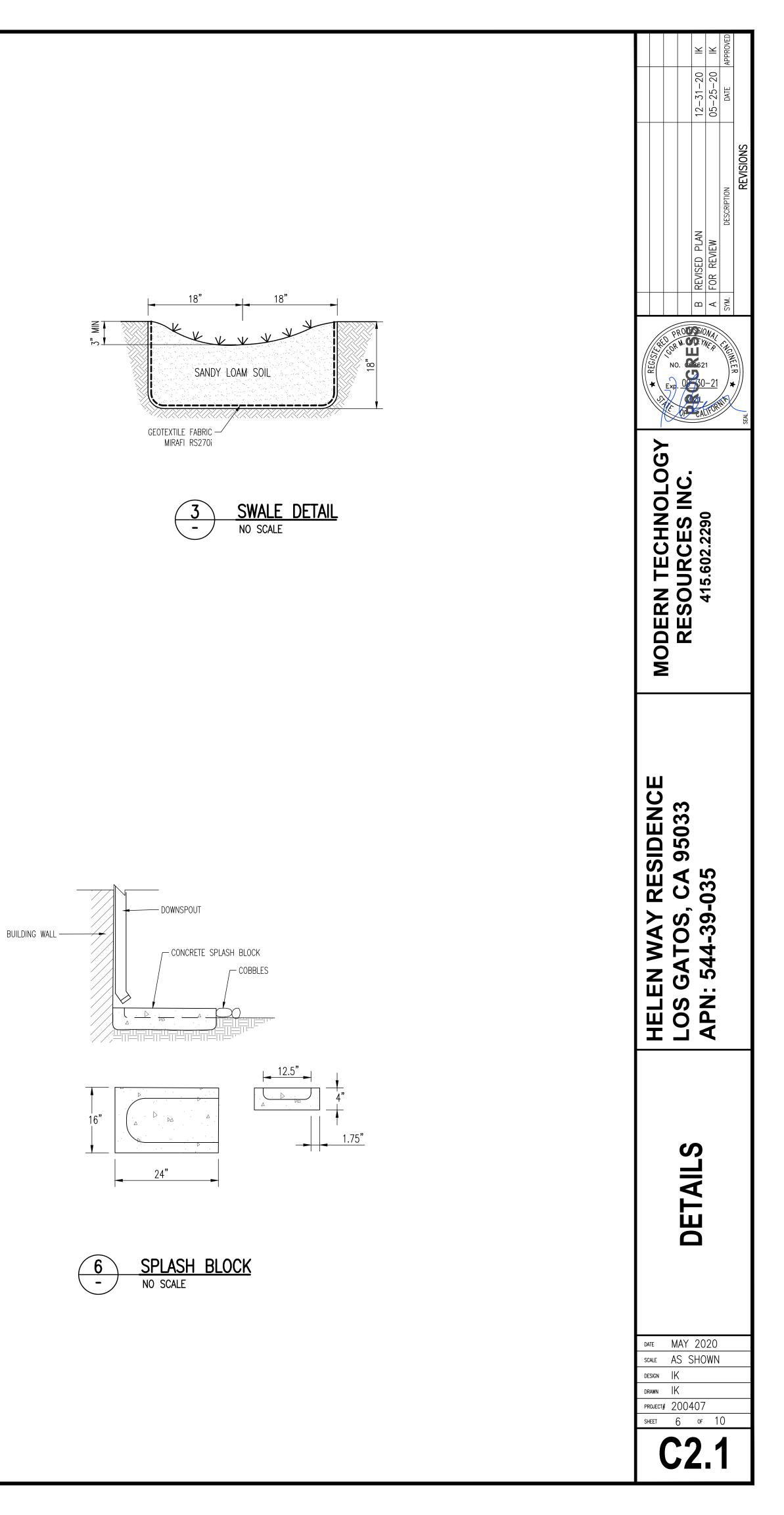


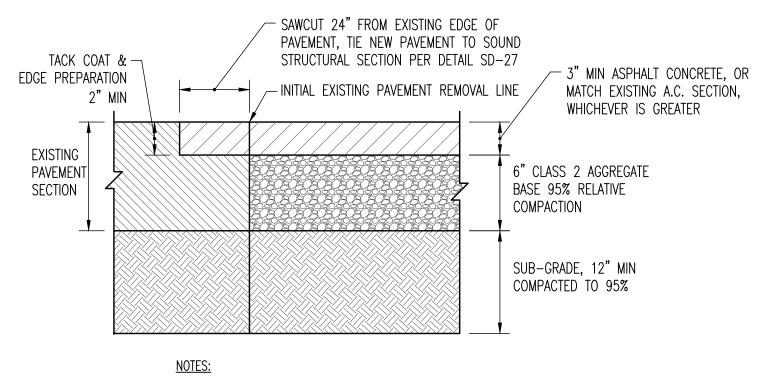




<u>NOTE:</u> PROVIDE CLEANOUTS TO GRADE AT ALTERNATING BENDS OR EVERY 100 LF OF PIPE RUN. CONNECT TO SUBDRAIN VIA WYE CONNECTION. DO NOT USE 90° BENDS. USE 90° SWEEP OR TWO 45° BENDS TO ALLOW FOR EASY CLEANOUT ACCESS

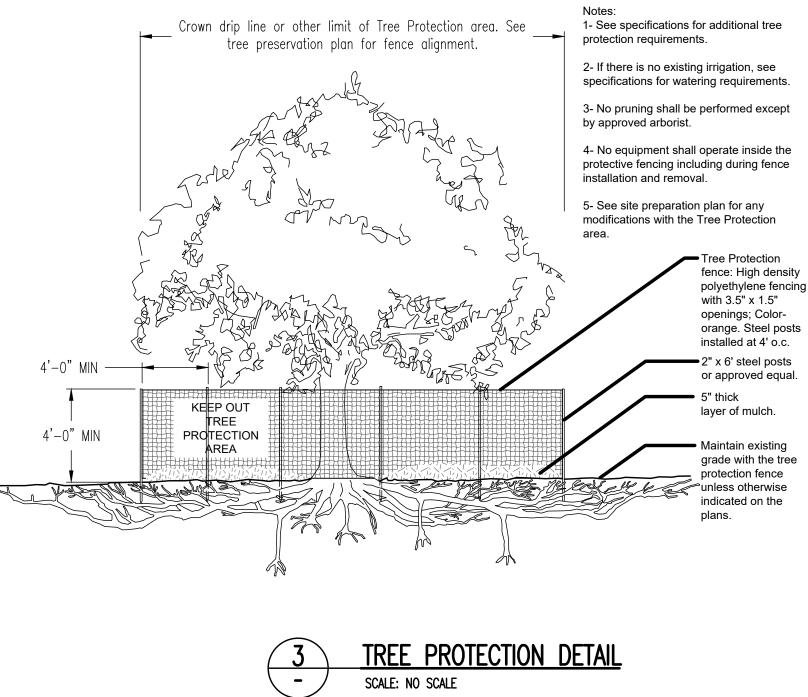




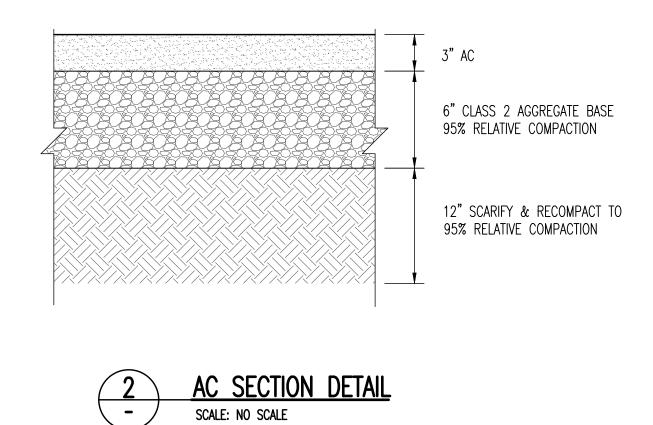


1. PAVEMENT RESTORATION MUST EQUAL EXISTING SECTION.

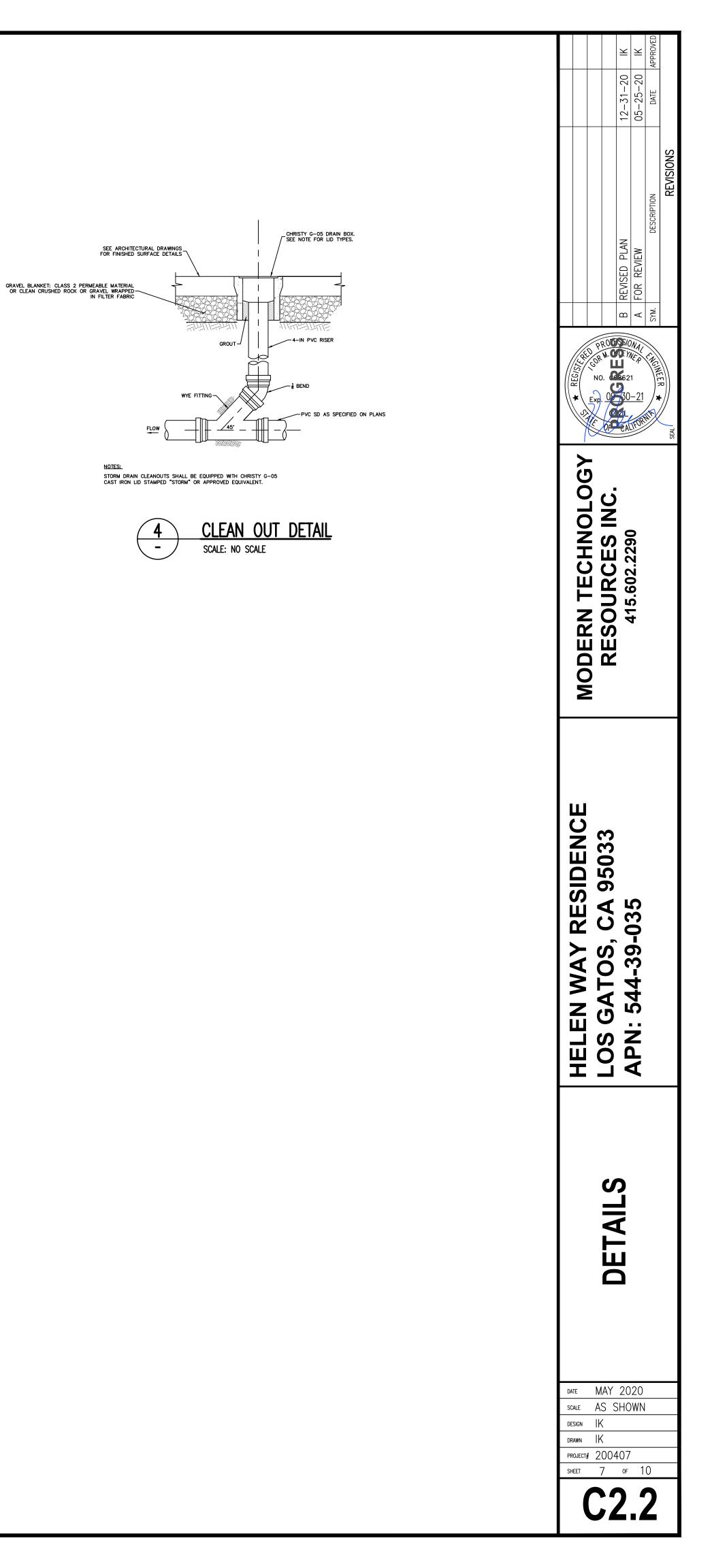




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polyethylene fencing with 3.5" x 1.5" openings; Color-



### EROSION & SEDIMENT CONTROL NOTES:

- 1. THIS PLAN IS INTENDED FOR EROSION CONTROL ONLY. OTHER INFORMATION SHOWN HEREIN MAY NOT BE THE MOST CURRENT.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FILING ALL PLANS WITH THE RELATED AGENCIES ASSOCIATED WITH THEIR WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PERMITS FOR STORAGE OF HAZARDOUS MATERIALS, BUSINESS PLANS, PERMITS FOR STORAGE OF FLAMMABLE LIQUIDS, GRADING PERMITS, OR OTHER PLANS OR PERMITS REQUIRED BY THE JURISDICTION. ALL PROPERTY OWNERS, CONTRACTORS, OR SUBCONTRACTORS WORKING ON-SITE ARE INDIVIDUALLY RESPONSIBLE FOR OBTAINING AND SUBMITTING ANY BUSINESS PLANS OR PERMITS REQUIRED BY CITY, STATE OR LOCAL AGENCIES.
- 3. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED, DURING THE RAINY SEASON (OCT. 15 TO MAY 15), UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS PLAN TO MEET FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF, OR AT THE DIRECTION OF THE OWNER, CHANGES MADE TO SUIT FIELD CONDITIONS WILL BE MADE ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE OWNER. CHANGES MADE TO SUIT FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CIVIL ENGINEER AND JURISDICTION FOR COMMENT AND APPROVAL.
- 4. ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED AS NECESSARY AT THE END OF EACH WORKING DAY, AFTER SIGNIFICANT RAIN OR DAILY DURING THE RAINY SEASON.
- 5. IF SIGNIFICANT SEDIMENT OR OTHER VISUAL SYMPTOMS OF IMPURITIES ARE NOTICED IN THE STORM WATER, CONTACT THE CIVIL ENGINEER IMMEDIATELY.
- 6. CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND RESTORATION OF ALL ASPECTS OF THE EROSION CONTROL PLAN. SEDIMENT ON THE SIDEWALKS AND GUTTERS SHALL BE REMOVED BY SHOVEL OR BROOM AND DISPOSED APPROPRIATELY.
- 7. ALL EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO THE ELEMENTS SHOWN ON THIS PLAN AND RELATED DOCUMENTS.
- 8. CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- 9. ALL DUMPSTERS OR OTHER TRASH STORAGE ENCLOSURES SHALL BE UTILIZED SOLELY FOR NON-HAZARDOUS MATERIALS.
- 10. CONTRACTOR TO PROPERLY AVOID AND PROTECT EXISTING TREES AND TREE ROOTS
- 11. DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS, THE SITE SHALL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAIN SYSTEM. THESE PLANS SHALL REMAIN IN EFFECT UNTIL THE IMPROVEMENTS ARE ACCEPTED BY THE JURISDICTION AND ALL SLOPES ARE STABILIZED.
- 12. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE JURISDICTION.
- 13. REMOVE SPOILS PROMPTLY AND AVOID STOCKPILING OF FILL MATERIALS WHEN RAIN IS FORECAST. IF RAIN IS FORECAST OR APPARENT, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH PLASTIC OR A TARP, AT THE REQUEST OF THE JURISDICTION.
- 14. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES SO AS TO PREVENT THEIR ENTRY INTO THE STORM DRAIN SYSTEM. CONTRACTOR MUST NOT ALLOW CONCRETE, WASHWATERS, SLURRIES, PAINT OR OTHER MATERIALS TO ENTER THE CATCH BASINS, STORM DRAINAGE, OR ENTER SITE RUNOFF.
- 15. USE FILTRATION OR OTHER APPROVED MEASURES TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- 16. NO CLEANING, FUELING OR MAINTAINING VEHICLES ON SITE SHALL BE PERMITTED TO ALLOW DELETERIOUS MATERIALS FROM ENTERING THE CATCH BASINS, STORM DRAINAGE, OR ENTER SITE RUNOFF.
- 17. EROSION CONTROL MEASURES TO BE EMPLOYED PER "EROSION AND SEDIMENT CONTROL FIELD MANUAL", CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL COAST REGION.
- 18. VEHICLES SHALL BE WASHED PRIOR TO LEAVING SITE DURING CONSTRUCTION.
- 19. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH APPROVED METHODS ESTABLISHED BY THE SOILS ENGINEER.
- 20. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE STABILIZED TO PREVENT EROSION AND SEDIMENTATION.
- 21. APPLY SEED, FERTILIZER AND STRAW MULCH, THEN TRACK OR PUSH IN THE MULCH WITH AN APPROVED MECHANICAL MEANS OR BY HAND.
- 22. DISTURBANCE OF SURFACE VEGETATION DURING CONSTRUCTION SHALL BE KEPT TO A MINIMUM.
- 23. DISTURBED AREAS SHOULD BE SEEDED, FERTILIZED, AND MULCHED TO PREVENT EROSION DURING WINTER MONTHS. INSTALL STRAW BALE SILTATION BARRIER AS NECESSARY. 24. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET SWEEPING TO KEEP DUST, SOIL, AND OTHER CONSTRUCTION DEBRIS FROM

# CONSTRUCTION PARKING AND STORAGE

- 1. PARK CONSTRUCTION VEHICLES IN THE DESIGNATED AREAS OF THE EXISTING DRIVEWAY AND ALONG LARCHMONT RD
- 2. EQUIPMENT AND MATERIALS TO BE STORED AS SHOWN ON PLAN

### **CONSTRUCTION NOTES:**

LEAVING PROJECT SITE.

- 1. EXCAVATION, GRADING, FILLING, CLEANING OF VEGETATION SHALL BE DONE BY HAND AND/OR SMALL MACHINERY. USE STOCKPILE AREA FOR STORAGE.
- 2. MIXED CONSTRUCTION AND DISPOSAL DEBRIS MUST BE TRANSPORTED OFF-SITE BY ORDINANCE OF CITY, STATE, OR LOCAL AGENCIES.
- 3. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION AND INSTALL PERMANENT IRRIGATION AFTER COMPLETION OF THE CONSTRUCTION.
- 4. ALL DISTURBED AREAS MUST BE GRASSED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.

# **LEGEND**

INLET FILTER



# COUNTY OF SAN MATEO EROSION & SEDIMENT CONTROL NOTES:

EROSION CONTROL POINT OF CONTACT:

ADDRESS: EMAIL: TEL

NAME:

- MEASURES TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL ARE REQUIRED YEAR-ROUND. STABILIZE ALL DENUDED
- STORMWATER.
- DRAINS AND WATERCOURSES.
- CONTROL BOARD (RWQCB) PERMIT(S) AS NECESSARY.
- 6. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.
- LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF
- METHODS.
- MAINTENANCE STANDARDS AND CONSTRUCTION BEST MANAGEMENT PRACTICES.
- 11. PLACEMENT OF EROSION MATERIALS REQUIRED ON WEEKENDS AND DURING RAIN EVENTS.

- 14. DUST CONTROL IS REQUIRED YEAR-ROUND.
- 15. EROSION CONTROL MATERIALS SHALL BE STORED ON-SITE.
- THE STOCKPILE IS ALSO PROTECTED WITH FIBER ROLLS CONTAINING THE BASE OF THE STOCKPILE.
- 17. TREE PROTECTION SHALL BE IN PLACE BEFORE ANY DEMOLITION, GRADING, EXCAVATING OR GRUBBING IS STARTED
- 20. PROTECT ALL STORM DRAIN INLETS AND OUTLETS IN VICINITY OF SITE USING SEDIMENT CONTROLS SUCH AS BERMS, FIBER ROLLS, OR FILTERS.
- 21. USE TEMPORARY EROSION CONTROLS TO STABILIZE ALL DENUDED AREAS UNTIL PERMANENT EROSION CONTROLS ARE ESTABLISHED.
- 23. DIVERT ON-SITE RUNOFF AROUND EXPOSED AREAS; DIVERT OFF-SITE RUNOFF AROUND THE SITE (E.G., SWALES AND DIKES).
- SEDIMENT BARRIERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.

PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER. MEASURES TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO EARTH-MOVING ACTIVITIES AND CONSTRUCTION.

AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 1 AND APRIL 30. 3. STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH

4. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORMWATER DISCHARGES TO STORM

5. USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAIN REGIONAL WATER QUALITY

8. LIMIT CONSTRUCTION ACCESS ROUTES TO STABILIZED, DESIGNATED ACCESS POINTS.

9. AVOID TRACKING DIRT OR OTHER MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING

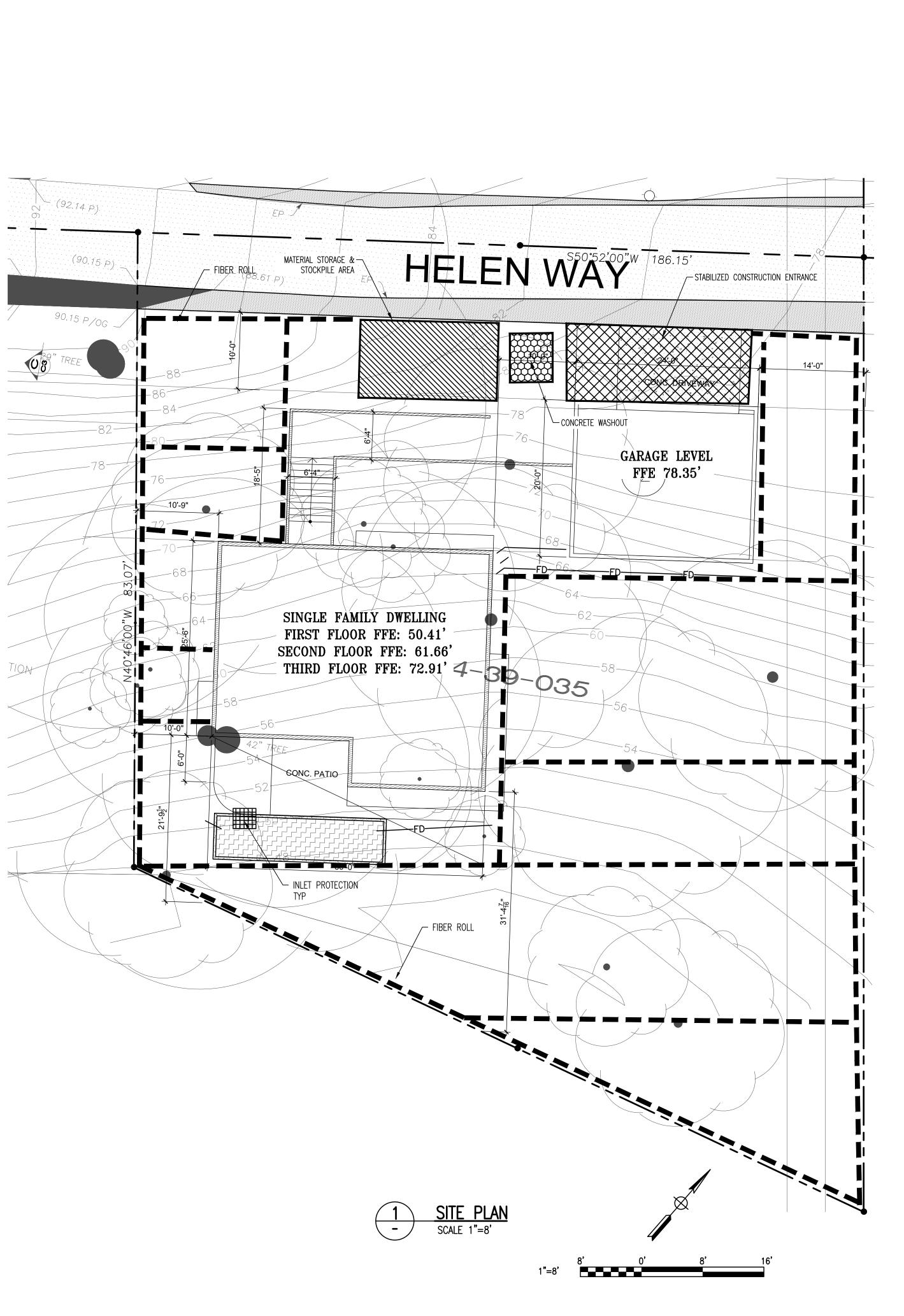
10. TRAIN AND PROVIDE INSTRUCTION TO ALL EMPLOYEES AND SUBCONTRACTORS REGARDING THE WATERSHED PROTECTION

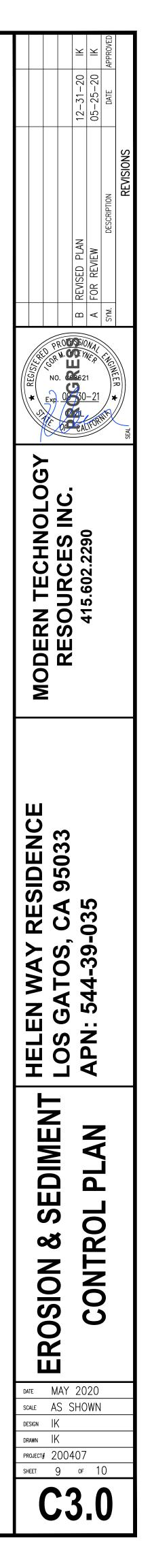
12. THE AREAS DELINEATED ON THE PLANS FOR PARKING, GRUBBING, STORAGE, ETC., SHALL NOT BE ENLARGED OR "RUN OVER." 13. CONSTRUCTION SITES ARE REQUIRED TO HAVE EROSION CONTROL MATERIALS ON-SITE DURING THE "OFF-SEASON."

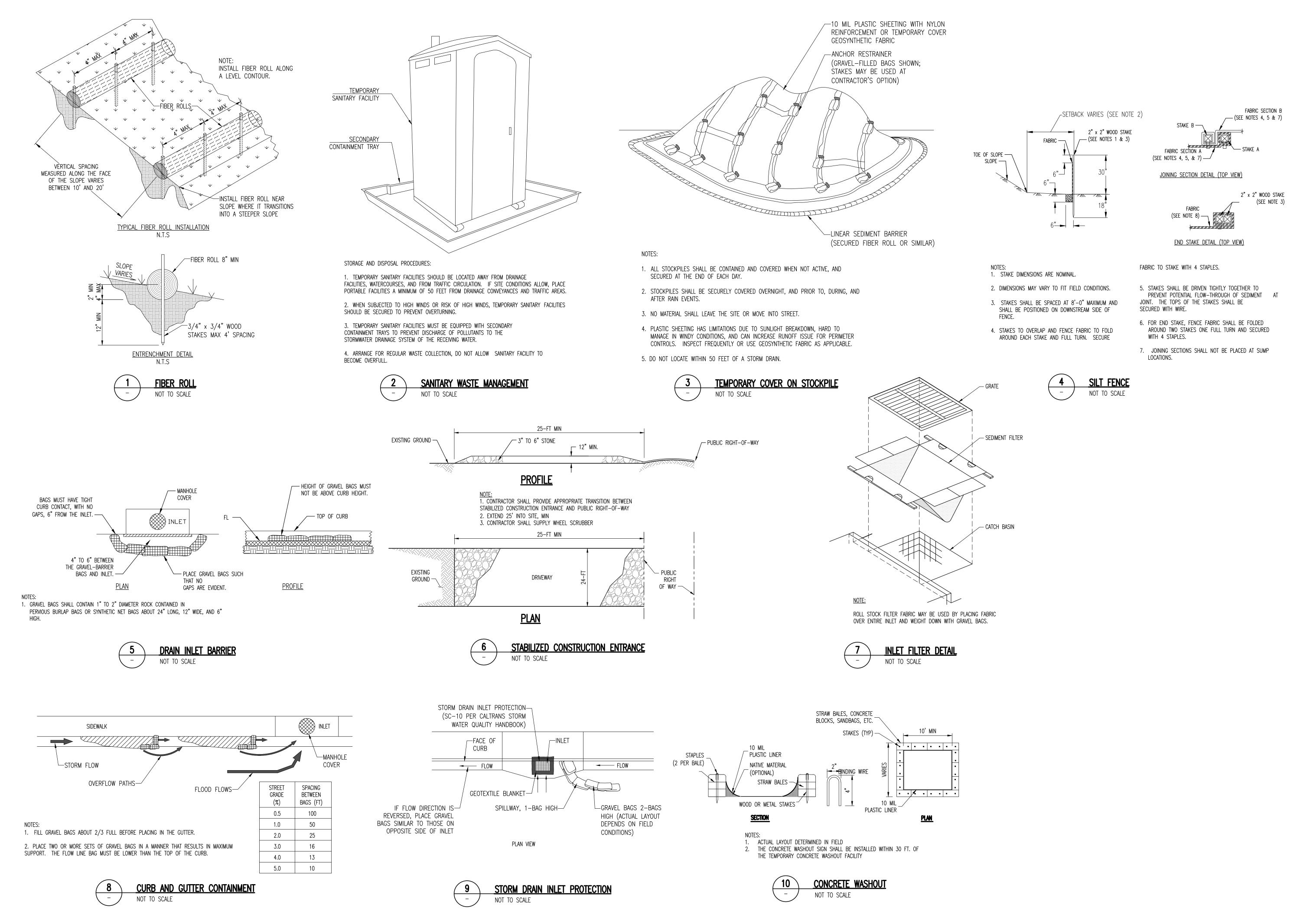
16. USE OF PLASTIC SHEETING BETWEEN OCTOBER 1 AND APRIL 30 IS NOT ACCEPTABLE, UNLESS FOR USE ON STOCKPILES WHERE

22. TRAP SEDIMENT ON-SITE, USING BEST MANAGEMENT PRACTICES SUCH AS SEDIMENT BASINS OR TRAPS, EARTHEN DIKES OR BERMS, SILT FENCES, CHECK DAMS, SOIL BLANKETS OR MATS, COVERS FOR SOIL STOCK PILES, ETC.

24. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACT USING VEGETATIVE BUFFER STRIPS,



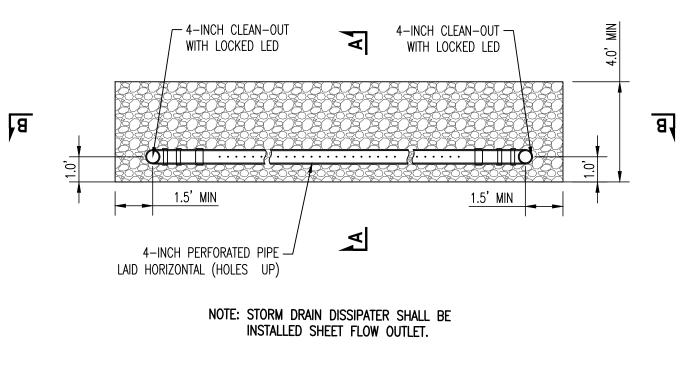




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MODERN TECHNOLOGY RESOURCES INC. 415.602.2290	THOMEER + MAS
HELEN WAY RESIDENCE LOS GATOS, CA 95033 APN: 544-39-035	
EROSION CONTROL	
date MAY 2020 scale AS SHOWN design IK drawn IK project# 200407 sheet 10 of 1	

### GENERAL NOTES:

- 1. THE CONTRACTOR SHALL, WHEN THEY DEEM NECESSARY, PROVIDE WRITTEN REQUESTS FOR INFORMATION (RFI) TO THE OWNER AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITEWORK ITEM. THE (RFI) SHALL BE IN A FORM ACCEPTABLE TO OWNER AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF TWO WORK DAYS OR ADDITIONAL REASONABLE TIME FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITEWORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT DOCUMENTS, CITY STANDARDS AND SPECIFICATIONS, AND ALL OTHER APPLICABLE LOCAL AND STATE CODES AND ORDINANCES. THERE ARE ADDITIONAL NOTES, SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN. REVIEW AND ADHERE TO ALL THESE DOCUMENTS.
- 3. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE CIVIL DESIGN ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS.
- 4. STANDARD CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE DAYS AND HOURS REGULATED BY THE CITY.
- 5. THE CONTRACTOR SHALL RESTORE TO THEIR PREVIOUS CONDITION OR REPLACE STRUCTURES TO REMAIN WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S WORK AT THEIR OWN EXPENSE.
- 6. THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATIONS AND TRENCHES. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED, AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT THE EXISTING IMPROVEMENTS WILL BE FULLY PROTECTED FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING, AND SHEATHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR RECONSTRUCTED AT THE CONTRACTORS EXPENSE.
- 7. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES AT THE END OF EACH WORK DAY.
- 8. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE AND REMAIN COMPLIANT WITH THE REGIONAL WATER QUALITY CONTROL BOARD REGULATIONS. THE SITE SHALL BE SPRINKLED AS NECESSARY TO PREVENT DUST NUISANCE.
- 9. ALL WORK IN RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT.
- 10. REFER TO ELECTRICAL, MECHANICAL, PLUMBING DRAWINGS (BY OTHERS) FOR SPECIFICATIONS RELATED TO THE INSTALLATION OF UTILITIES.
- 11. THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 72 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING 811. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING GROUND. 12. CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO PERFORM THE WORK SHOWN ON THIS PLAN.
- 13. THE CONTRACTOR SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE GROUND AND UNDERGROUND AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 14. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 15. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. THE DESIGN ENGINEER WILL CLARIFY DISCREPANCIES OR OMISSIONS, IN WRITING, WITHIN A REASONABLE TIME.
- 16. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE DESIGNER IF VISUAL OBSERVATION OR DEMOLITION EXPOSE CONDITIONS THAT CONFLICT WITH THE DRAWINGS.
- 17. UPON SATISFACTORY COMPLETION OF THE WORK, THE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION DEBRIS OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.





### DRAINAGE

- CODE.
- FLUSHED ON A BIANNUAL BASIS OR AS FOUND NECESSARY
- FOR A DISTANCE OF 8 TO 10 FEET WHERE POSSIBLE. 7. GRATE FINISHES TO BE SPECIFIED BY ARCHITECT.
- 8. PLANTER GRATES SHALL BE 4" ATRIUM GRATES

### UTILITIES:

- EXISTING USERS OF THESE UTILITIES.

### CALCULATIONS:

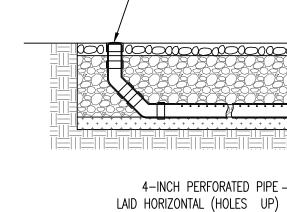
NEW IMPERVIOUS AREA APPROX. = 2,330 SF BIORETENTION PLANTER REQUIRED MIN = 2,330 X 0.04 = 93.2 SF

SCOPE OF WORK: NEW RESIDENTIAL STORM DRAIN

GEOTEXTILE FABRIC -

PIPE FITTINGS -

FL AT TEE=58.50



STORM DRAIN DISSIPATOR NO SCALE

1. ALL PERFORATED POLYVINYL CHLORIDE PIPE SHALL CONFORM WITH ASTM D 3034, SDR 35. 2. ALL SOLID PIPE ABS SCHEDULE 40 SHALL BE PRIMED AND TESTED ACCORDING CALIFORNIA PLUMBING

3. ALL PIPE FITTING BETWEEN SDR 35 AND SCHEDULE 40 SHALL COMPLY WITH CALIFORNIA PLUMBING CODE. 4. UPON PROJECT COMPLETION, THE CLIENT SHALL BE SOLELY RESPONSIBLE TO ROUTINELY INSPECT AND MAINTAIN ALL ON-SITE STORM DRAIN FACILITIES. STORM DRAIN SYSTEM SHALL BE CLEANED AND/OR 5. ALL STORM DRAINAGE PIPES ARE 4 INCH PVC WITH 2.0 PERCENT SLOPE OR BETTER.

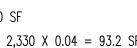
6. SLOPE LANDSCAPE SURFACES AWAY FROM PERIMETER OF THE RESIDENCE AND OTHER STRUCTURES AT 5%

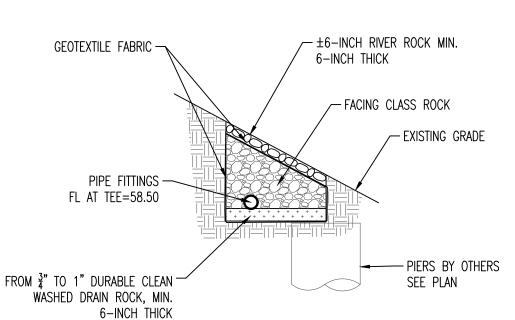
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS IN A MANNER WHICH WILL NOT NEGATIVELY AFFECT ANY

2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, INCLUDING BUT NOT LIMITED TO: WATER, SEWER, GAS, ELECTRIC & TELECOMMUNICATIONS, LOCATIONS, INVERTS AND CONDITIONS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN ON THE PLANS AND REQUIRING MODIFICATIONS TO THE DESIGN SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION. DIFFERING UTILITY CONDITIONS THAT ARE ENCOUNTERED BY THE CONTRACTOR. THAT REQUIRE MODIFICATION OF DESIGN THAT ARE NOT BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT NO ADDITIONAL COST.

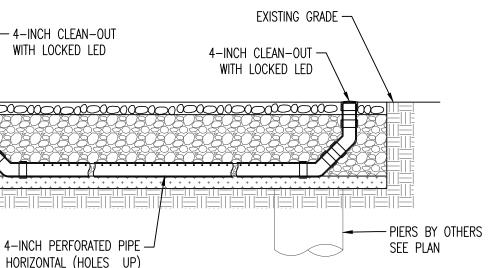
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES INCLUDING, BUT NOT LIMITED TO SANITARY SEWER, STORM SEWER, DOMESTIC WATER, FIRE WATER, IRRIGATION WATER, GAS SERVICE, ELECTRICAL SERVICE, AND TELECOMMUNICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS AND LOCATIONS ARE ACHIEVED AS WELL AS COORDINATING WITH THE GOVERNING UTILITY COMPANIES FOR APPROVAL OF UTILITY LOCATIONS AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.

4. THE LOCATION OF EXISTING GAS AND ELECTRICAL MAINS ARE APPROXIMATE. THE CONTRACTOR MUST CONSULT WITH PG&E FOR ADDITIONAL INFORMATION. ALL PROPOSED GAS AND ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES AND PG&E REQUIREMENTS. MINIMUM DEPTH OF COVER OVER ELECTRICAL, GAS AND TELECOMMUNICATIONS SHALL BE TWO FEET.

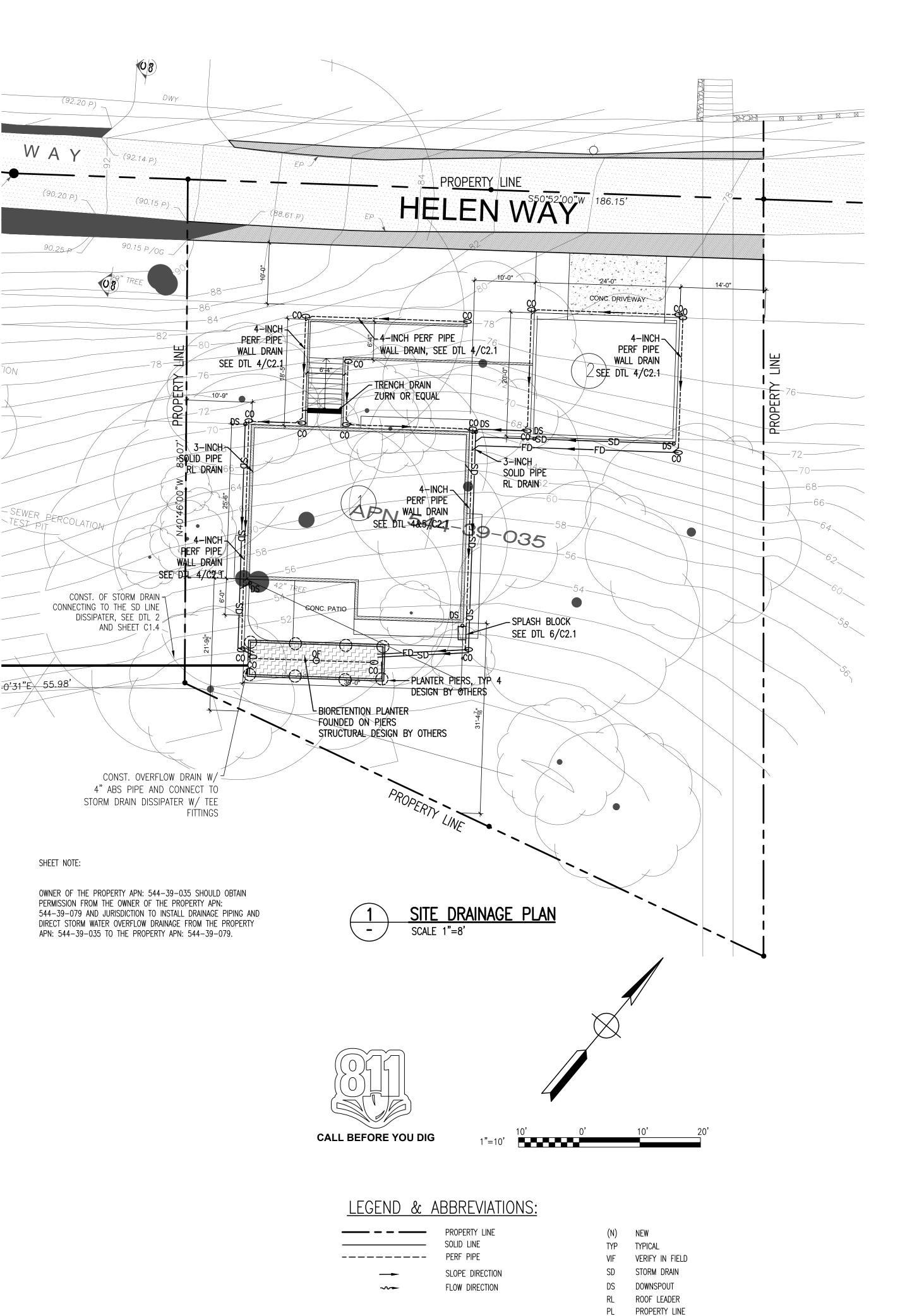


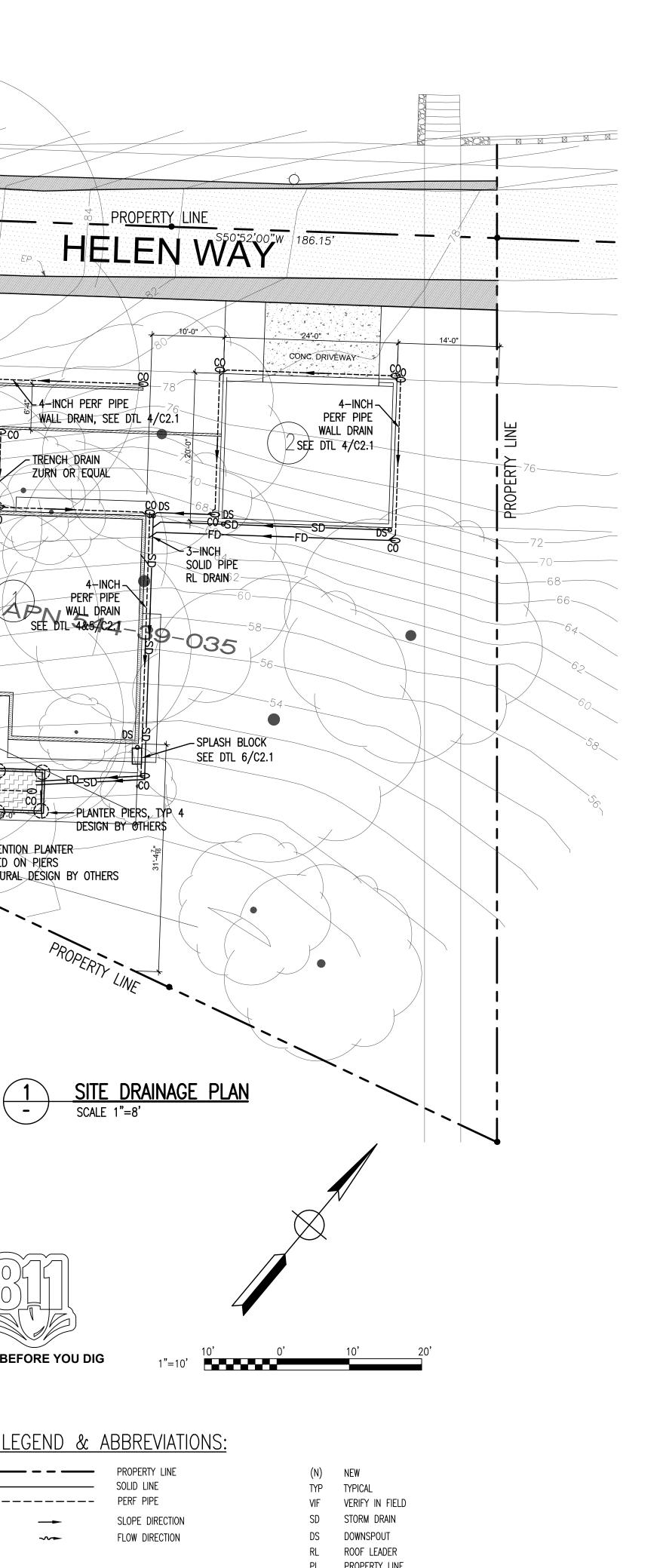


SECTION A-A





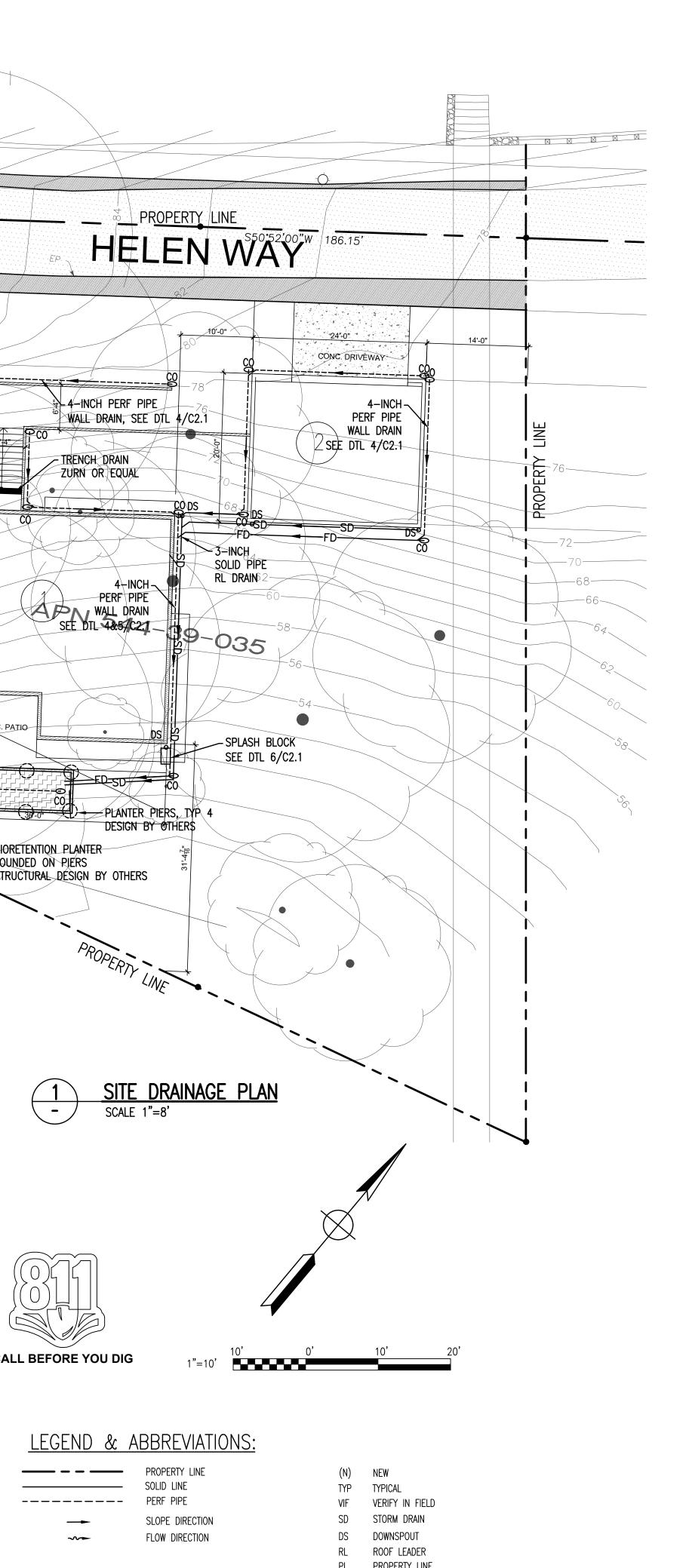


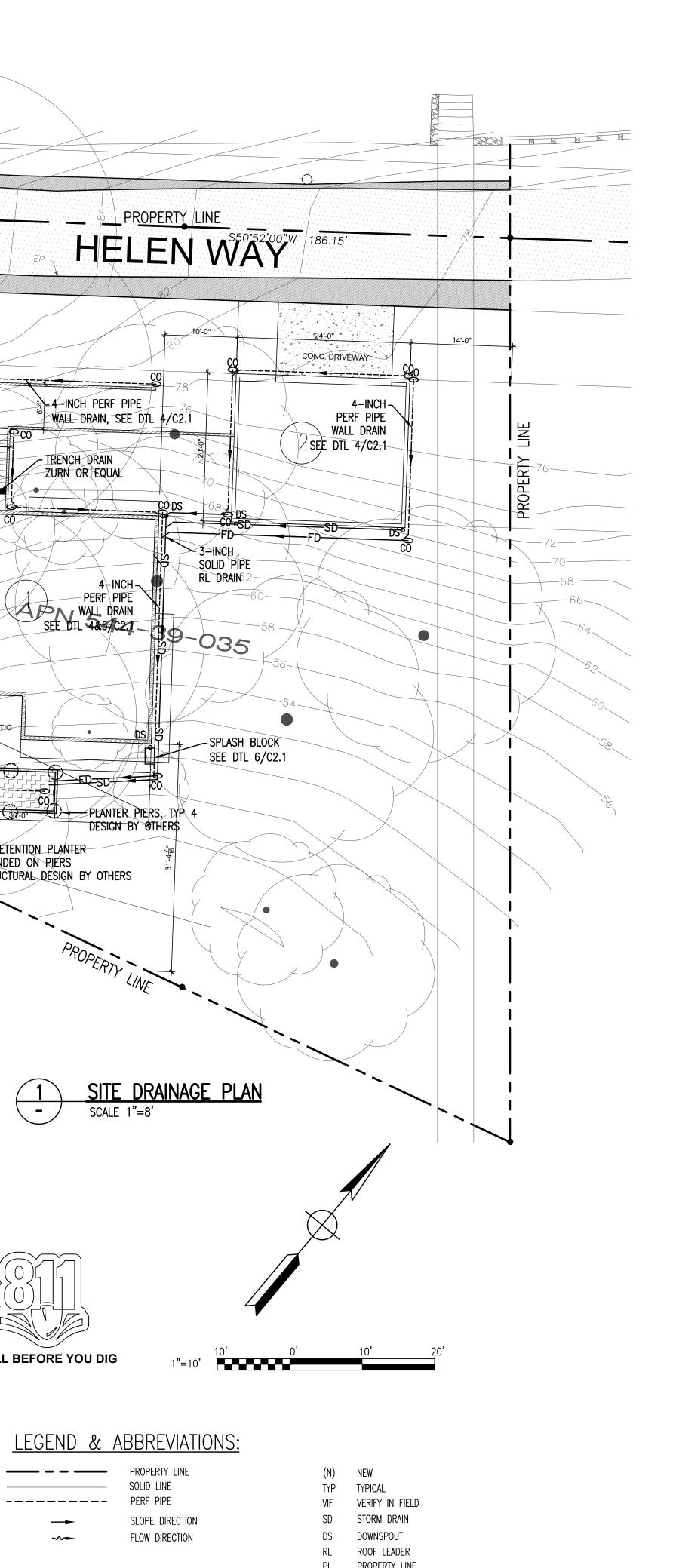


OVERFLOW

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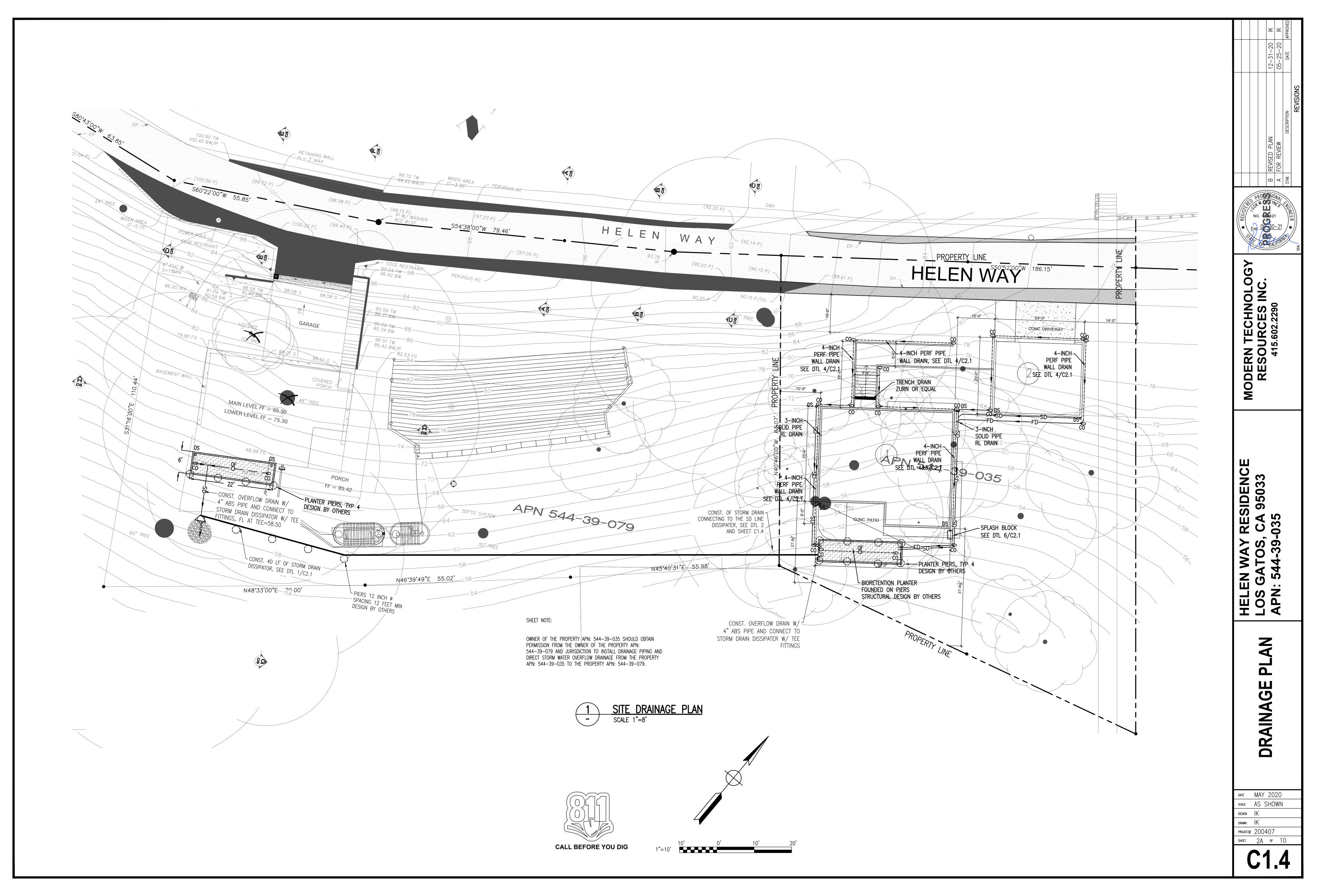


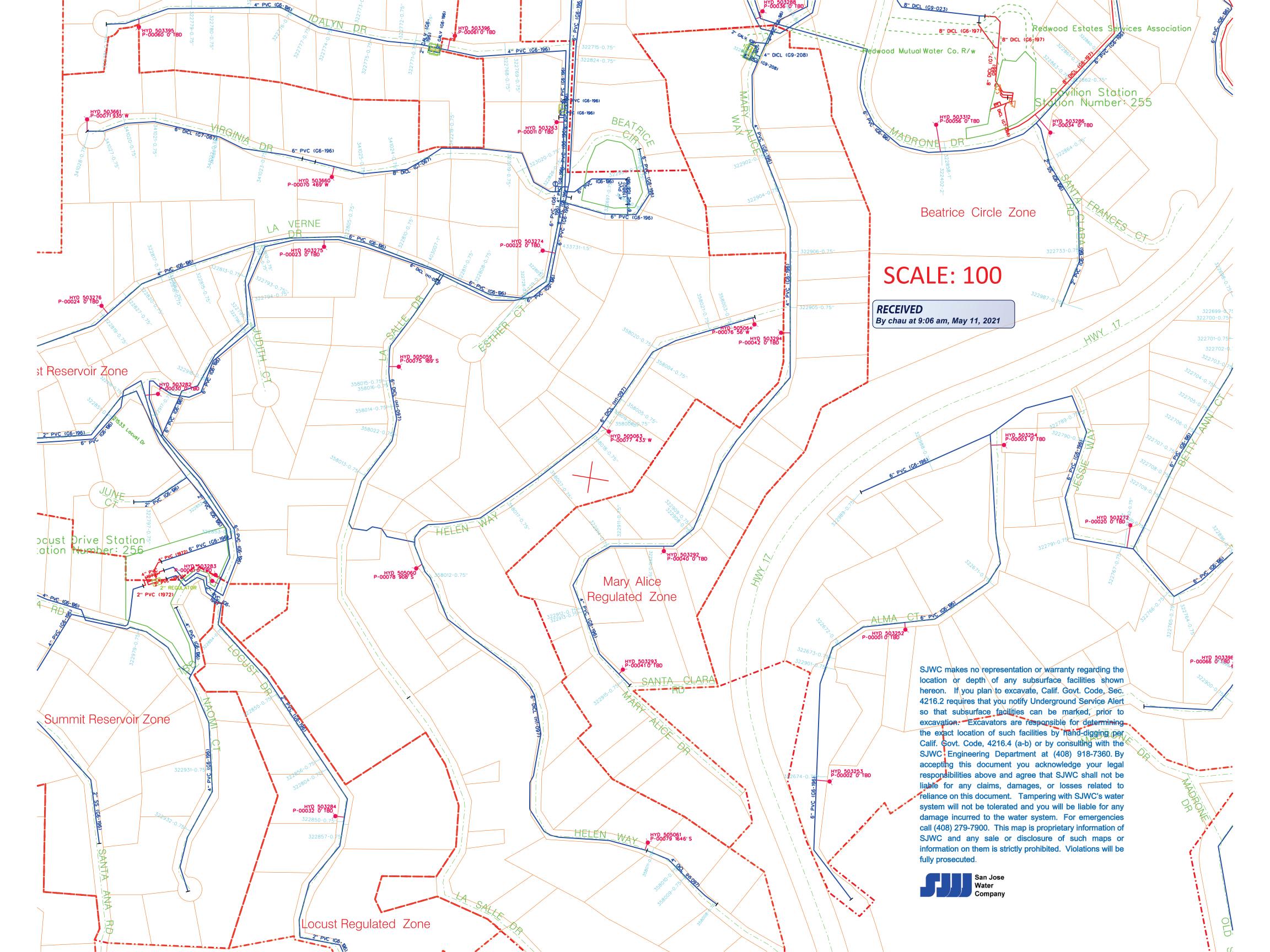
12. REVISED PLAN FOR REVIEW PROUSSIONAL R M. OD YNER NO. 0621 `\★<u>Exp. 0000-21</u> OF CALIFORN C OLO. CHN 2290 S U U **TE UR** 5.602 **ZO**<sup>4</sup> R S S ШШ **DN** Ο Σ ш RESIDENCI CA 95033 CA 035 0  $\succ$ S S O m 3 F 4 S GA . . HEI AP oQ **A** S 0 Ζ G A **GENER DRAIN** date MAY 2020 SCALE AS SHOWN design IK drawn IK PROJECT# 200407 SHEET 2 OF 10 **C1.1** 

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# PROJECT INFORMATION:

PROJECT NAME:	HELEN WAY
PROJECT ADDRESS:	HELEN WAY LEXINGTON HILLS, CA 95033
APN:	544-039-035
PURPOSE OF GRADING:	NEW RESIDENTIAL DWELLING
ARCHITECT/APPLICANT:	GLOBAL ARCH INC. 7733 DANNON CT. CITRUS HEIGHTS, CA 95610 PHONE: 916–205–2454
CIVIL ENGINEER:	MTR, INC. EMAIL: TESR@EARTHLINK.NET PHONE: 415.602.2290

STRUCTURAL ENGINEER:

# SCOPE OF WORK:

THIS PROJECT INVOLVES CONSTRUCTION OF THE NEW RESIDENTIAL DWELLING.

# <u>QUANTITIES:</u>

LOT AREA:	9,946 ± SF
PRE-PROJECT IMPERVIOUS SURFACE	0 SF
POST-PROJECT IMPERVIOUS SURFACE	2,350 SF
AREA OF DISTURBANCE	3,250 SF
CUT	300 CY
FILL	50 CY

# <u>SHEET INDEX:</u>

SHT NO.	DESCRIPTION
C1.0	LEGEND & SITE PLAN
C1.1	GENERAL NOTES & DRAINAGE PLAN
C1.2	GENERAL NOTES & GRADING PLAN
C1.3	UTILITY PLAN
C2.0	DETAILS
C2.1	DETAILS
C2.2	DETAILS
C2.3	ROAD SECTIONS & PROFILE
C3.0	EROSION CONTROL PLAN
C3.1	EROSION CONTROL DETAILS

# LEGEND & ABBREVIATIONS:

(E) CONCRETE

(N) CONCRETE

ASPHALTIC CONCRETE

BIORETENTION PLANTER

(E) LAWN

	PROPERTY LINE
×103.85	EXISTING SPOT ELEVATION
	EXISTING BUILDING FOOTPRINT
/////	NEW BUILDING FOOTPRINT
	TREE

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////////	WALL
SD	STORM DRAIN LINE
	PERFORATED DRAIN LINE
(N)	NEW
(E)	EXISTING
SD	STORM DRAIN
FFE	FINISHED FLOOR ELEVATION
0	ROOF DOWNSPOUT
~~~	SURFACE FLOW
	DIRECTION FLOW
DS	DOWNSPOUT
CO	CLEANOUT
AD	AREA DRAIN
INV	INVERT
OF	OVERFLOW

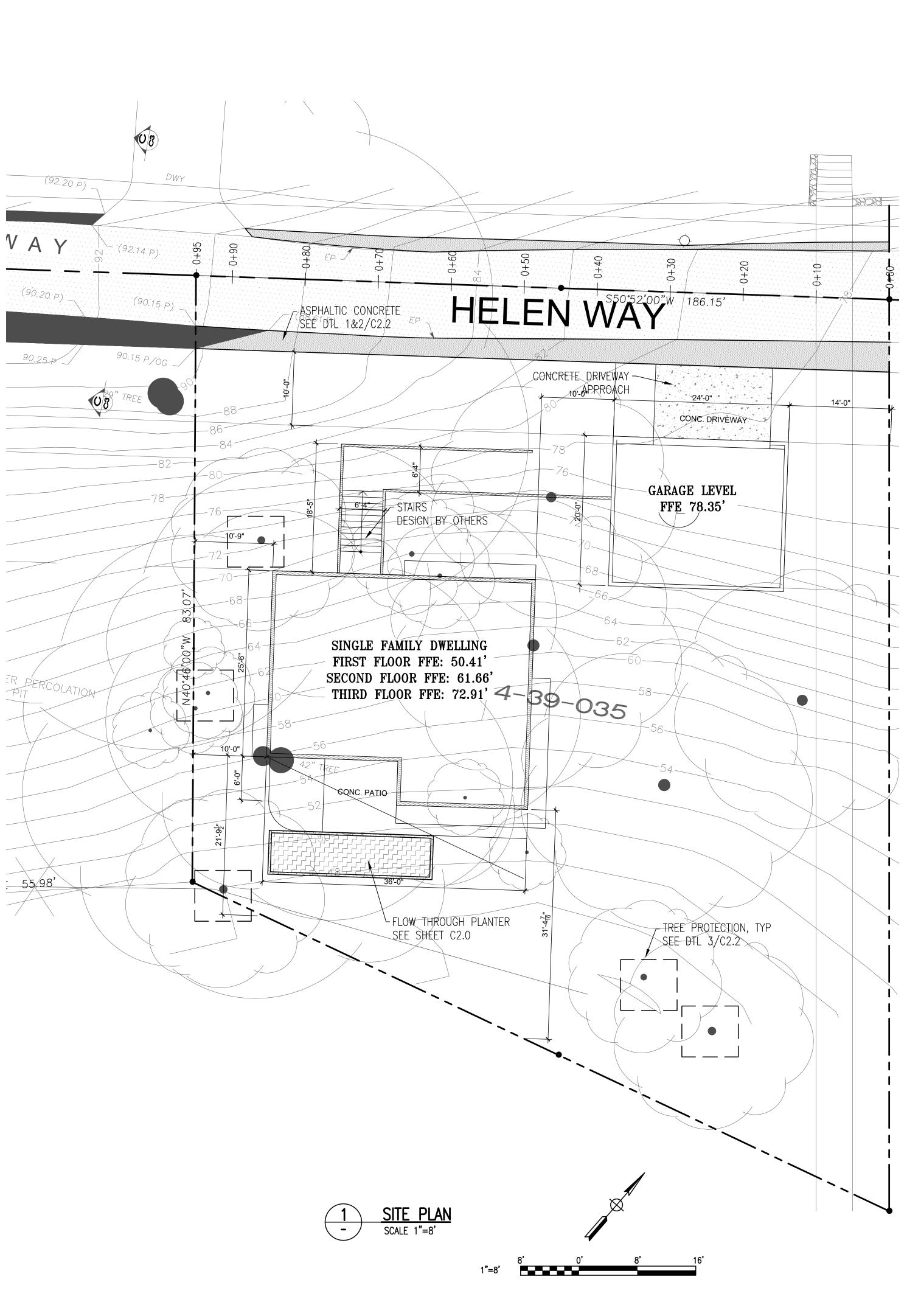
DECOMPOSED GRANITE

### LEGEND AND ABBREVIATIONS:

<u> </u>	PROPERTY LINE
	SOLID PIPE
	PERF PIPE
	FOUNDATION PERF PIF
···	EASEMENT
	SWALE
SD	STORM DRAIN
———W———	WATER
G	GAS
SS	SEWER
—— T ——	TELECOM
—— FD ——	FOUNDATION DRAIN
	FLOW DIRECTION
	SURFACE FLOW
2.0%	SLOPE
<u></u> ∠XXX	SPOT ELEVATION
/ 。	CLEAN OUT
0	AREA DRAIN

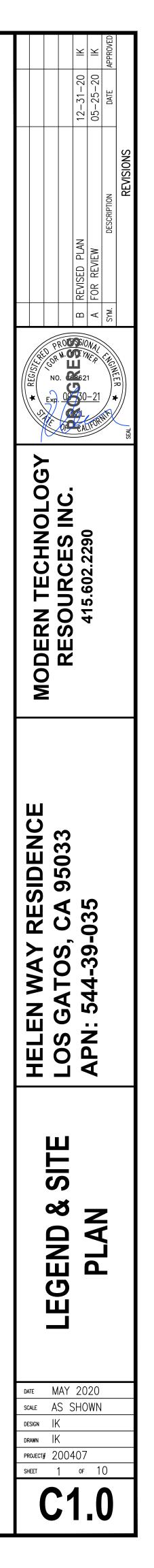
DOWNSPOUTS

0



- (E) EXISTING TYP TYPICAL VIF VERIFY IN FIELD PIPE SD STORM DRAIN AD AREA DRAIN ROOF LEADER RL PL PROPERTY LINE FG FINISH GRADE CO CLEAN OUT DS DOWNSPOUTS
- TC TOP OF CURB FL FLOW LINE





### <u>GRADING:</u>

- 1. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT THE CONTRACTORS EXPENSE.
- 2. ALL WORK SHALL CONFORM TO RECOMMENDATIONS SPECIFIED IN THE GEOTECHNICAL REPORT.
- 3. ALL GRADING SHALL CONFORM TO THE JURISDICTION ORDINANCE CODE REGULATIONS FOR EXCAVATING, GRADING, FILLING AND CLEARING ON LANDS.
- 4. THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING GROUND.
- 5. ACTUAL GRADING SHALL BEGIN WITHIN 30 DAYS OF VEGETATION REMOVAL OR THE AREA SHALL BE PLANTED TO CONTROL EROSION. SURFACE PLANT GROWTH ONLY AND WHICH DOES NOT EXCEED 4 INCHES IN DEPTH.
- 6. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY, BETWEEN OCTOBER 15 AND APRIL 15.
- 7. CONTRACTOR SHALL NOTIFY THE DIRECTOR OR PUBLIC WORKS AT LEAST 48 HOURS PRIOR TO THE FOLLOWING INSPECTIONS: INITIAL INSPECTION OF GRADE STAKING, ROUGH GRADING INSPECTION, STORM/SUB DRAINAGE INSPECTION, FINAL INSPECTION AND APPROVAL.
- 8. A COPY OF ALL COMPACTION TESTS AND FINAL GRADING REPORT SHALL BE SUBMITTED TO THE JURISDICTION PRIOR TO SCHEDULING ANY INSPECTIONS.
- 9. DRAINAGE WILL BE A MINIMUM OF 5% AWAY FROM THE HOUSE FOR A MINIMUM OF 10 FEET OR AS SHOWN ON PLAN.
- 10. POLYVINYL CHLORIDE PIPE SHALL CONFORM WITH ASTM D 3034, SDR 35 OR EQUIVALENT.
- 11. CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO PERFORM THE WORK SHOWN ON THIS PLAN.
- 12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND SHALL NOTIFY THE ENGINEER OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 13. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. THE DESIGN ENGINEER WILL CLARIFY DISCREPANCIES OR OMISSIONS, IN WRITING, WITHIN A REASONABLE TIME.
- 14. CONTRACTOR SHALL MINIMIZE THE VOLUME OF RECYCLABLE MATERIALS SENT TO AREA LANDFILLS.
- 15. THE EXPORTED SOILS FROM THIS SITE SHALL BE REMOVED AND DISPOSED OF IN A MANNER AND LOCATION ACCEPTABLE TO THE JURISDICTION FOLLOWING THE REQUIREMENTS OF ALL APPLICABLE COUNTY, STATE, AND FEDERAL LAWS OR ORDINANCES.
- 16. SOIL COMPACTION SHALL BE A MINIMUM OF 90% RELATIVE COMPACTION FOR HARDSCAPE SURFACES.

### **EXISTING CONDITIONS:**

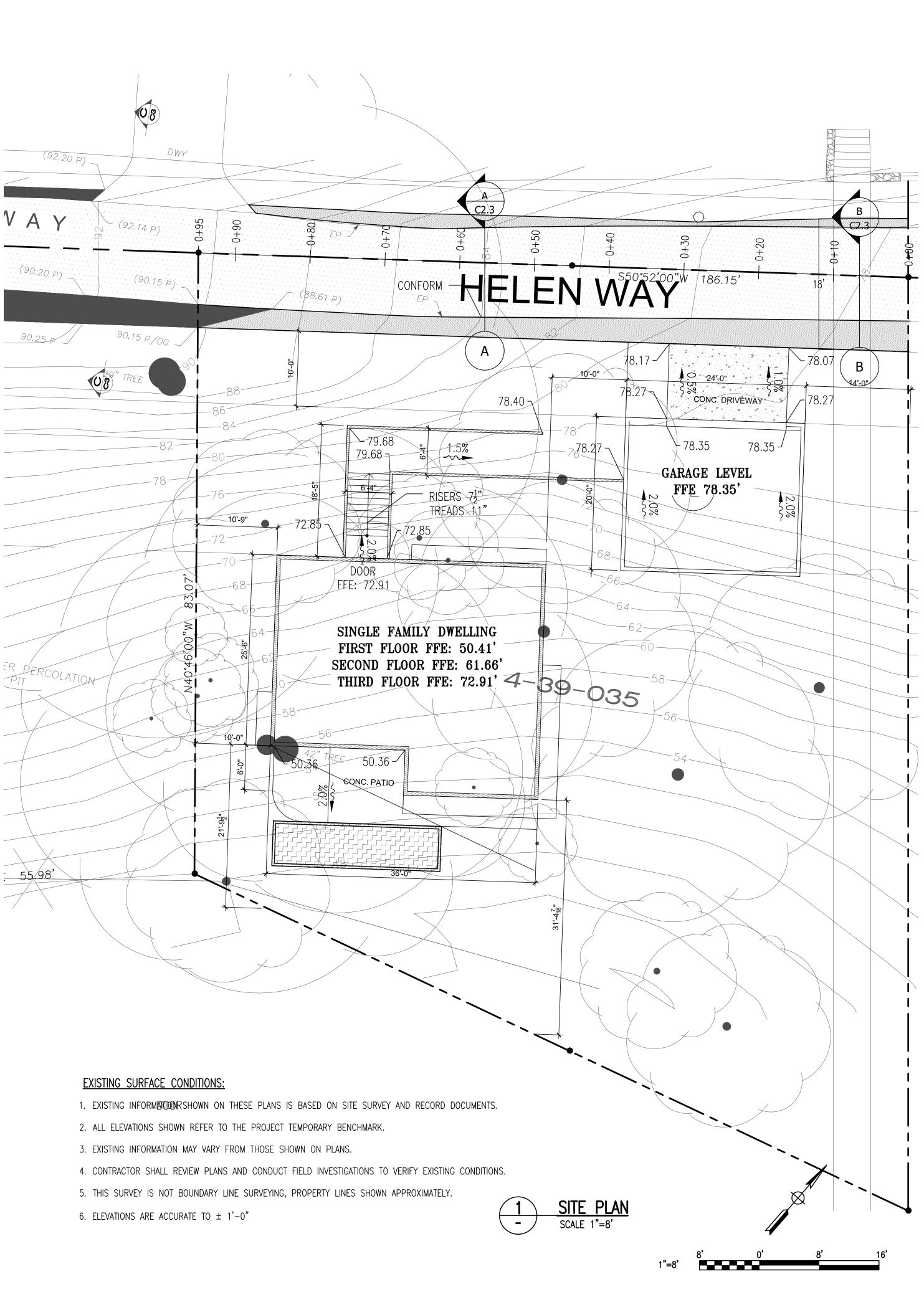
- 1. EXISTING INFORMATION SHOWN ON THESE PLANS IS BASED ON SITE SURVEY.
- 2. ALL ELEVATIONS SHOWN REFER TO THE PROJECT VERTICAL DATUM.

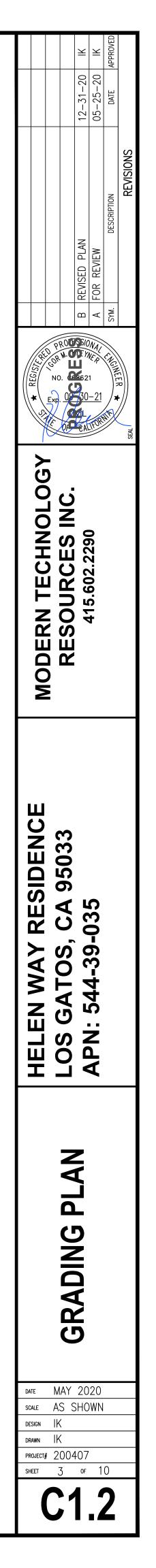
### **GEOTECHNICAL NOTE:**

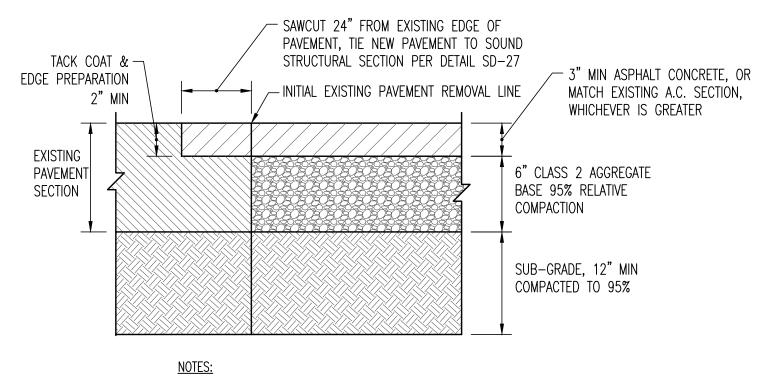
ALL WORK TO COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION PREPARED FOR THE PROJECT SITE.

### EXISTING UNDERGROUND UTILITIES:

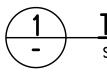
- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS IN A MANNER WHICH WILL NOT NEGATIVELY AFFECT ANY EXISTING USERS OF THESE UTILITIES.
- 2. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, INCLUDING BUT NOT LIMITED TO: WATER, SEWER, GAS, ELECTRIC & TELECOMMUNICATIONS, LOCATIONS, INVERTS AND CONDITIONS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN ON THE PLANS AND REQUIRING MODIFICATIONS TO THE DESIGN SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION. DIFFERING UTILITY CONDITIONS THAT ARE ENCOUNTERED BY THE CONTRACTOR. THAT REQUIRE MODIFICATION OF DESIGN THAT ARE NOT BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT NO ADDITIONAL COST.
- 3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES INCLUDING, BUT NOT LIMITED TO SANITARY SEWER, STORM SEWER, DOMESTIC WATER, FIRE WATER, IRRIGATION WATER, GAS SERVICE, ELECTRICAL SERVICE, AND TELECOMMUNICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS AND LOCATIONS ARE ACHIEVED AS WELL AS COORDINATING WITH THE GOVERNING UTILITY COMPANIES FOR APPROVAL OF UTILITY LOCATIONS AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
- 4. THE LOCATION OF EXISTING ELECTRICAL MAINS ARE APPROXIMATE. THE CONTRACTOR MUST CONSULT WITH PG&E FOR ADDITIONAL INFORMATION. ALL PROPOSED ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES AND PG&E REQUIREMENTS. MINIMUM DEPTH OF COVER OVER ELECTRICAL, GAS AND TELECOMMUNICATIONS SHALL BE TWO FEET. CONTRACTOR SHALL COORDINATE WITH PGE FOR NEW ELECTRIC SERVICE. CONTRACTOR SHALL COORDINATE WITH TELECOM PROVIDER FOR NEW TELECOM SERVICE.
- 5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE NEW WATER SERVICE.
- 6. THE CONTRACTOR SHALL COORDINATE FOR TELECOM SERVICES FOR NEW SERVICE.



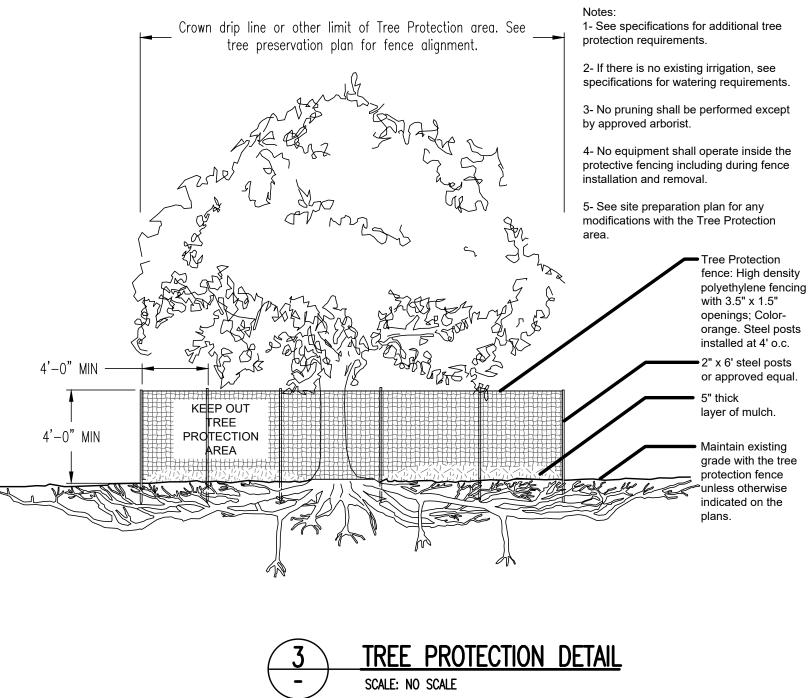


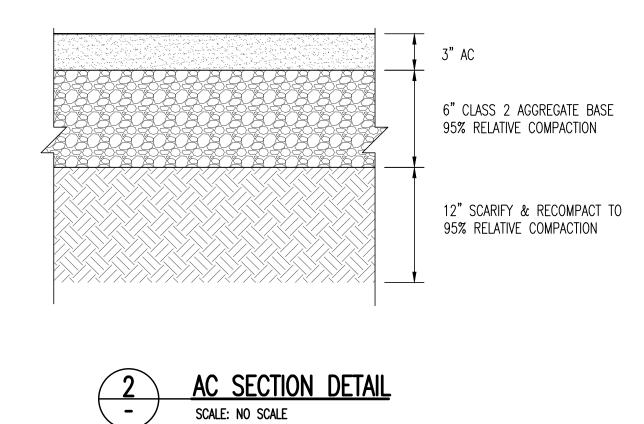


1. PAVEMENT RESTORATION MUST EQUAL EXISTING SECTION.



TRANSITION AC DETAIL SCALE: NO SCALE

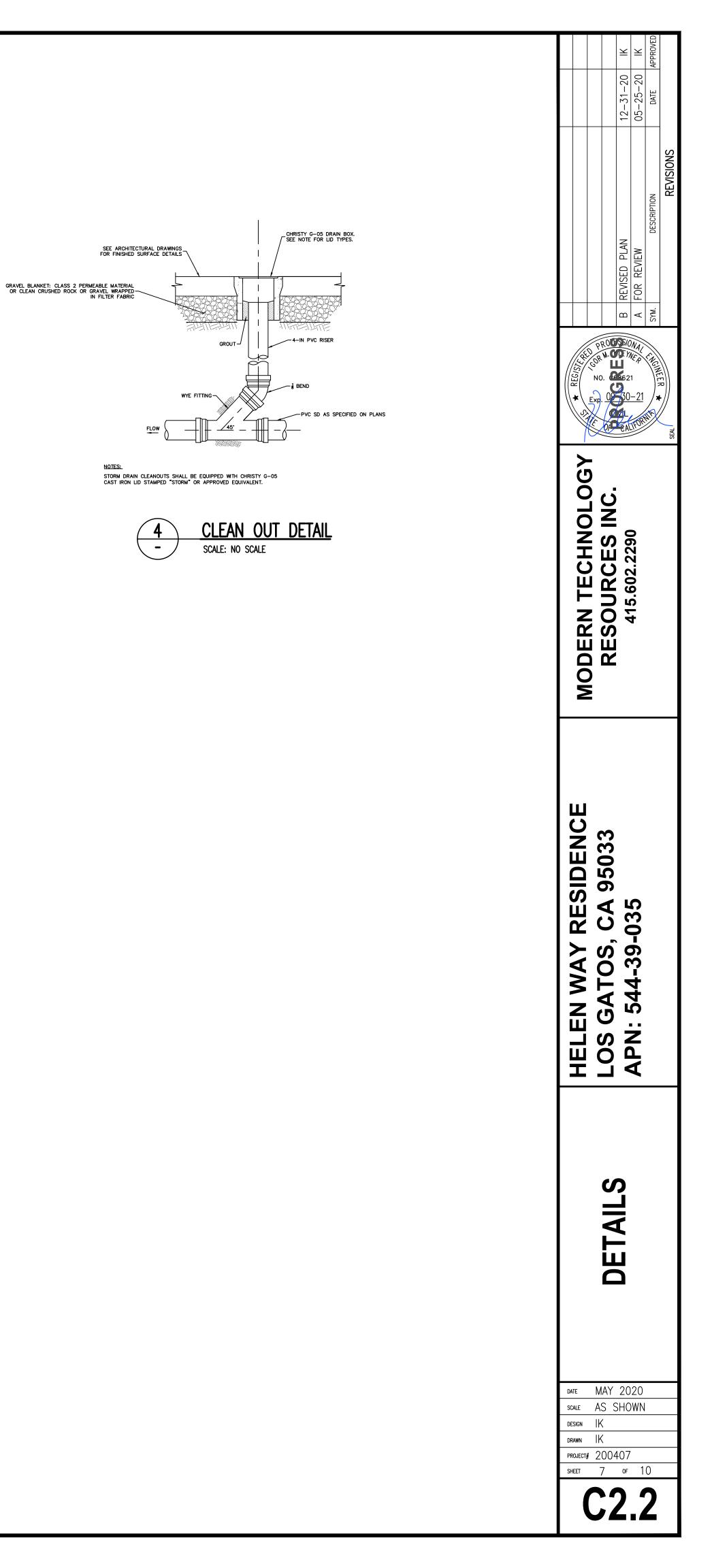


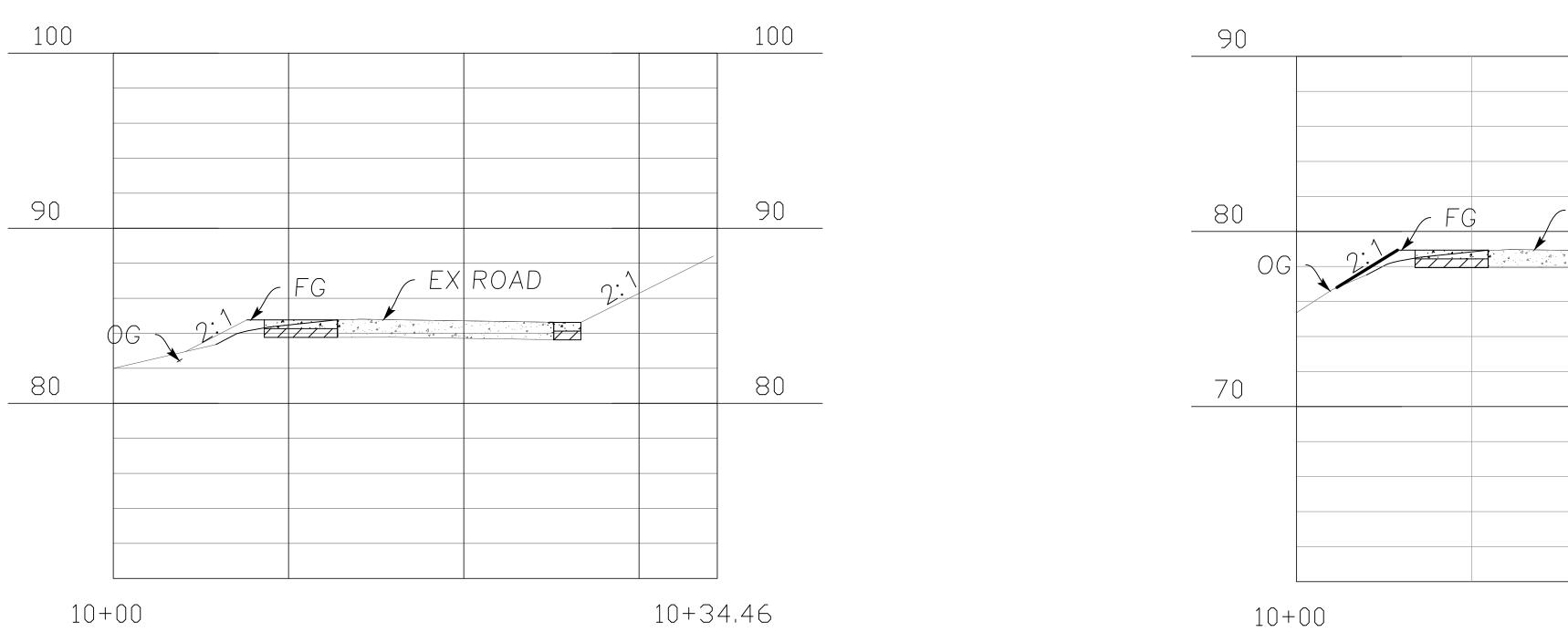


polyethylene fencing with 3.5" x 1.5" openings; Color-

2" x 6' steel posts or approved equal.

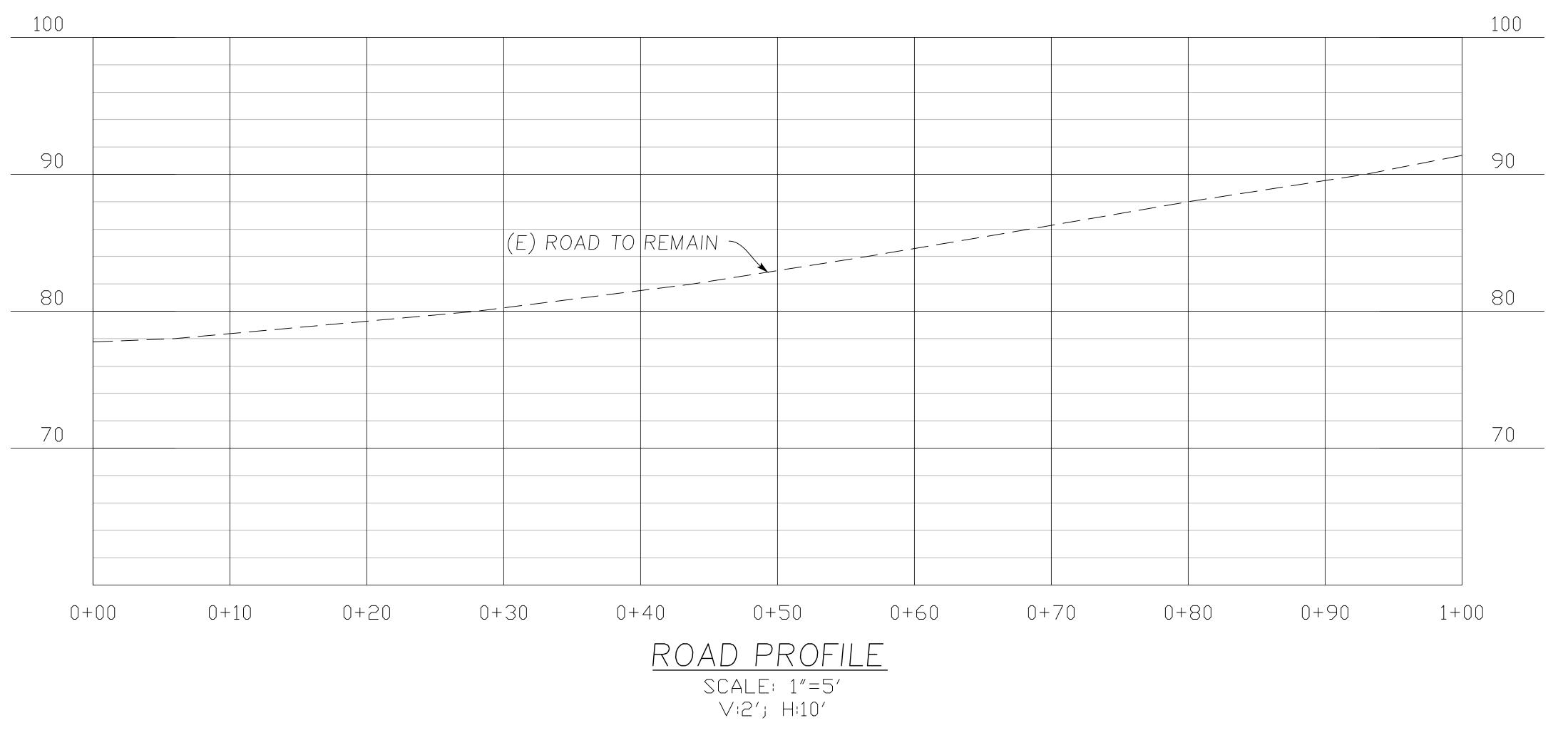
grade with the tree



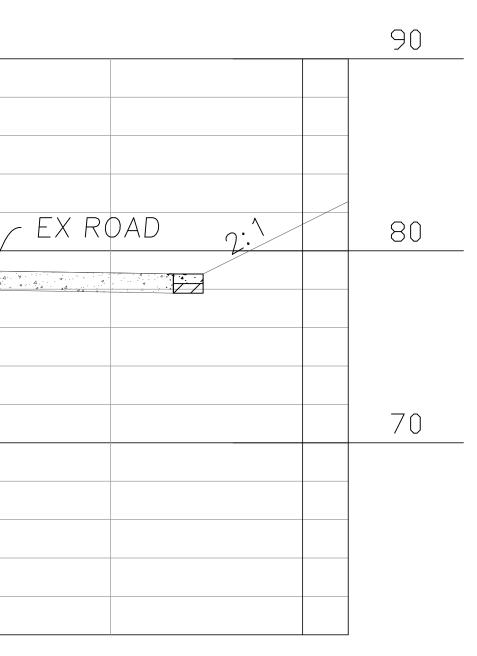


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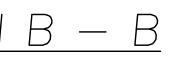


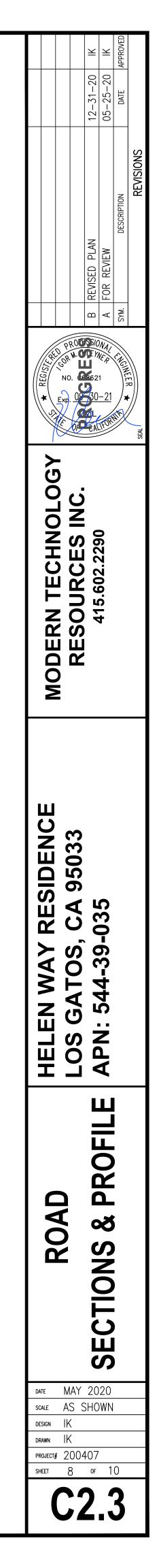


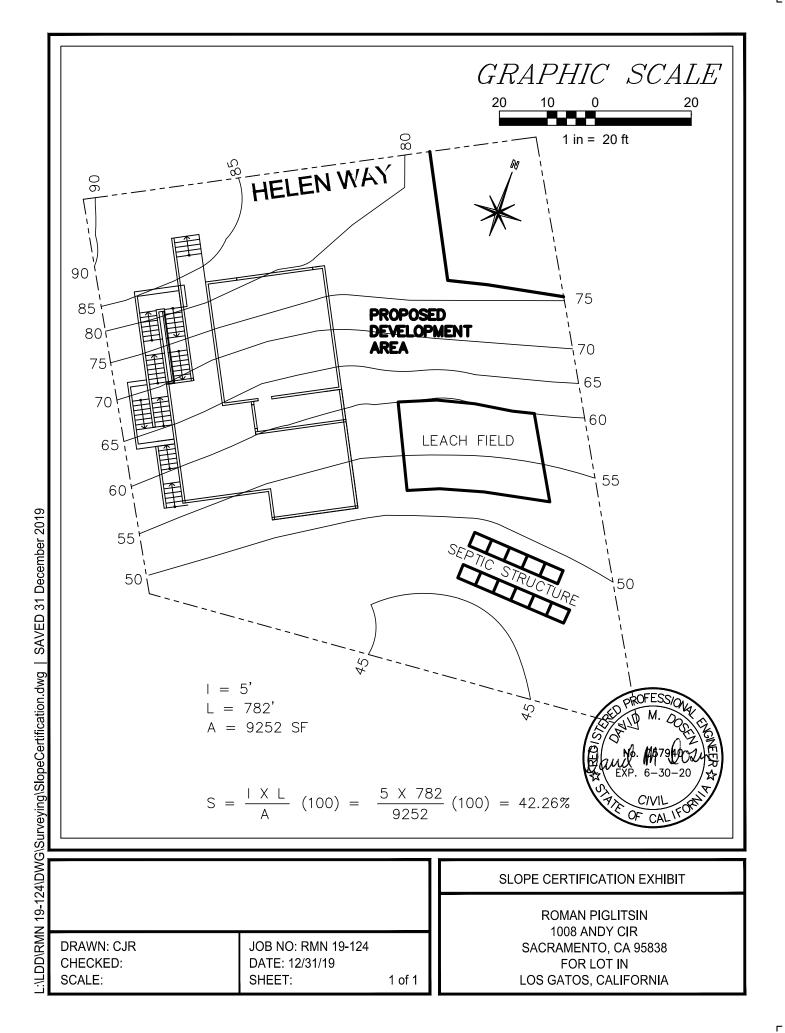
<u>Section B - B</u>





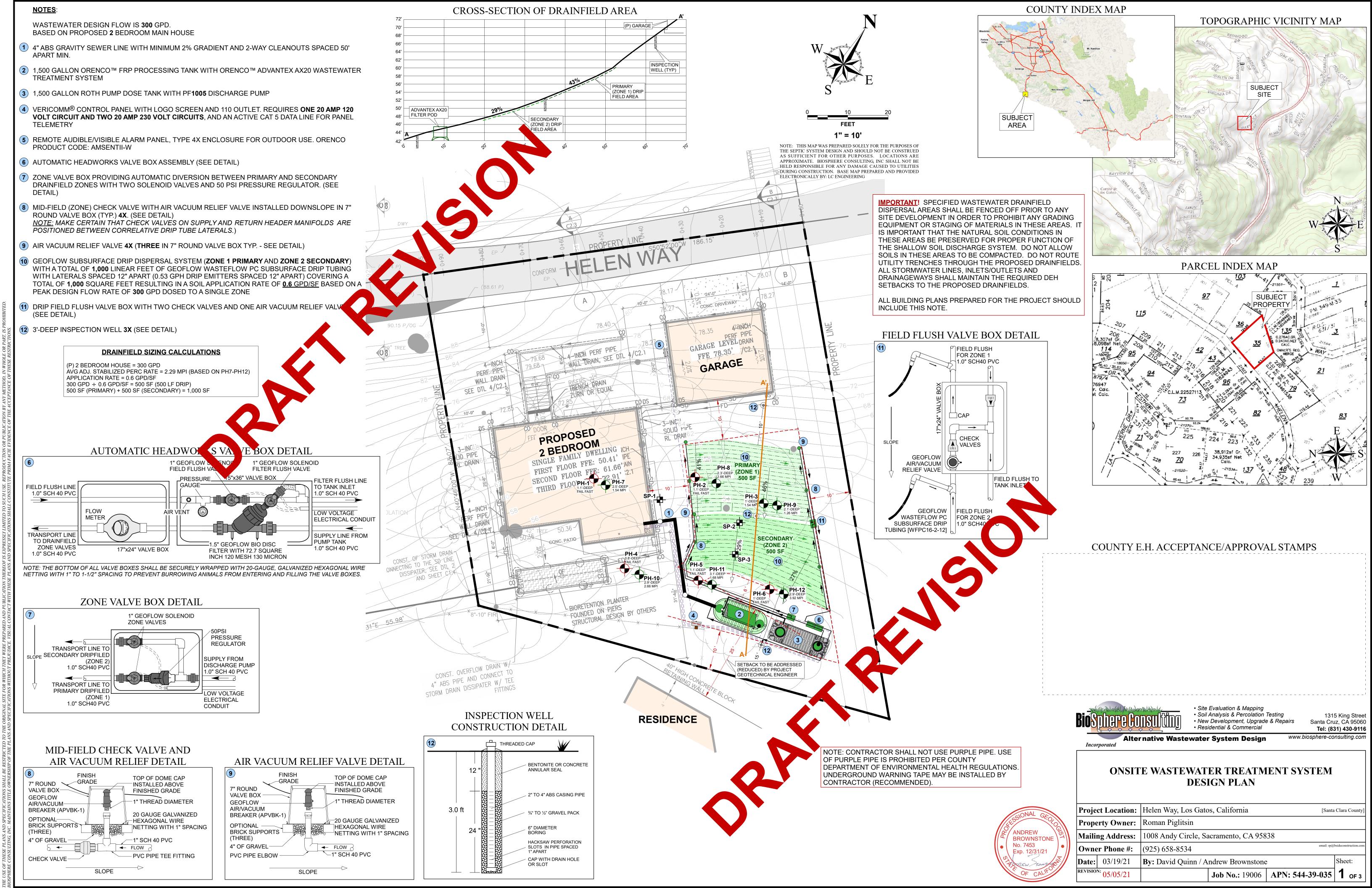






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### **PROJECT DESCRIPTION**

An onsite wastewater system specifying enhanced treatment using alternative technology is proposed to serve new development of a two bedroom dwelling to be constructed on Helen Way, Lost Gatos in Santa Clara County, California. An "alternative" system with subsurface drip dispersal is specified to provide supplemental treatment of the wastewater discharged on the site to address the steep slopes and limited space on the subject property.

- **CONSTRAINTS & DESIGN CRITERIA** The proposed dual draindfield system is designed to serve a 2 bedroom dwelling with a design wastewater flow of 300 gallons per day (gpd) per County DEH guidelines. The AdvanTex<sup>™</sup> wastewater treatment system specified can accommodate an average wastewater flows of 600 gpd. Drip dispersal is specified to address slope gradients over 40%. Soil profiles did not exhibit any evidence of seasonally high groundwater conditions. No wells, springs or watercourses are situated within 100' of the proposed Onsite Wastewater Treatment System. SPECIFICATIONS Building Sewer Lines, & Proposed Processing Tank 1.1. A 4" ABS building sewer line shall be installed to convey all raw sewage from dwelling to the processing tank. All gravity sewer piping must maintain a minimum 2% continuous gradient. All wastewater including graywater shall be discharged to the processing tank. 1.2. Locate 2-way, 4" ABS cleanout fittings on the building sewer to facilitate snaking and line location. 1.3. A 1,500 gallon, watertight, Fiberglass Reinforced Polyester (FRP) tank, from Orenco Systems<sup>®</sup>, Inc.(OSI), is specified for use as a processing tank with the proposed AdvanTex<sup>™</sup> AX-20(Mode 3B) treatment system. The tank shall have 24" diameter OSI access risers with fiberglass, bolt- down lids (brown). The tank shall be installed according to the manufacturers guidelines including the 6" concrete collar above tank flange to prevent floatation.
- 1.4. The tank hole shall be excavated so that the tank sits level. Install the access risers with a watertight joint using the adhesives supplied by manufacturer.
- 1.5. Install the tank inlet fitting with a watertight joint. Cap off or use a test plug on this fitting and fill the tank with clean water 2" above the joint between the riser and the tank top. Repair any leaks.
- 1.6. Obtain a watertight tank inspection by EH and the designer or distributor with 24 hours notice to each.
- 1.7. Install the recirculating splitter valve (RSV) in the inlet side of the tank according to the installation manual instructions. AdvanTex<sup>™</sup> Treatment System
- 2.1. An AdvanTex<sup>™</sup> treatment system includes a Biotube<sup>®</sup> pump package for recirculation, RSV, split-flow tee, a AX20 packed-bed filter a telemetry-enabled VeriComm<sup>®</sup> control panel. Filter pod lid shall be brown unless otherwise requested.
- 2.2. Install the AdvanTex<sup>™</sup> system according to the installation instructions and in the location shown on the plan.
- The filter pod shall be installed with the lid (brown) 2"-4" above final grade. A more shallow burial is possible, but only if property owner.
- 2.3. The pressurized transport pipe from the recirc. pump to the filter pod shall be 1.0" schedule 40 PVC. This pressurized L the side of the pod opposite of the 2" gravity drain (vent side).
- 2.4. The filtrate gravity return pipe from the filter pod to the RSV and on to the discharge pump basin shall be 2" sche continuous fall on the return piping as venting through this pipe is critical.
- 2.5. Test the squirt height on the filter pod. It should be approximately 3'-4' high.
- Discharge Pump Tank and Transport Piping
- 3.1. A 1,500 gallon Roth pump tank shall be installed adjacent to the processing tank.
- 3.2. The pump tank shall be installed according to the manufacturer's instructions including anti-floatations Scations and be made watertight 3.3. Install the pump and float tree according to the instructions provided by manufacturer/dealer.
- 3.4. A 1/2 hp OSI high head effluent pump (PF1005) is specified for pressurized dispersal dischar
- 3.5. The filtrate *transport pipe to dispersal system shall be 1.0" schedule 40 PVC*.
- 3.6. Concrete thrust blocks, or equivalent restraint, shall be provided at sharp changes in piping

### Subsurface Drip Dispersal System

- 4.1. Approximately 1,000 lineal feet of Geoflow PC drip tubing (with 0.5gph emitters sp all be installed with a minimum of 12" lateral spacing covering an area of at least 1,000 square feet in the configuration show on t The drip field shall be divided evenly into two zones. The 8 air/vacuum relief valves specified shall be supplied by Geof
- n the Generation with approval by designer 4.2. The drip dispersal field shall be installed according to the instructions in *t* lateral be installed in such a manner as to reduce the potential of low he and layout of the dispersal field may vary per owner's, landscaper's or in on with approval by designer.
- apart. The supply header shall be installed 12" 18" below 4.3. The drip tubing lines shall be buried 8"-10" deep and spaced no ch grade. It may be easier to install the drip tubing first, and the start as aders afterwards. Great care must be taken to keep dirt out of the drip tubing and supply and return piping. All piping skew be thorough y flushed and pressure tested prior to use.
- 4.4. The drip field flush return line is specified to be routed to tank current UPC requirements "treated wastewater - do not drink". 4.5. All pressurized piping shall be schedule 40 PVC and labelled according
- Pressure piping shall be pressure-rated to 150 psi and solvent welded
- 4.6. Concrete thrust blocks, or equivalent restraint, shall be provided at sharp changes in piping direction.
- 4.7. Drainfield shall meet Santa Clara County guidelines for Tree Protection and Preservation for Land Use Applications. Refer to the Santa Clara County Odrinance C-16 Tree Preservation Removal.
- nstaller Qualifications and Responsibilities
- 5.1. The system installer shall be licensed by the State of California, Department of Consumer Affairs, to install septic systems. Installer certification is required by the local AdvanTex<sup>™</sup> dealer. The installer is required to fully read and understand the AdvanTex<sup>™</sup> and Geoflow manuals prior to the commencement of work.
- 5.2. All piping shall conform to the current edition of the Plumbing Code.
- 5.3. The installer shall be responsible for locating any property lines, underground utilities or piping. Any damage to these facilities shall be the responsibility of the installer.
- 5.4. A pre-construction conference with designer, DEH inspector and dealer/service provider shall be arranged prior to the commencement of work. Pre-construction conference should include construction procedures, staking or marking of the drip lines, supply and return piping, pump system and appurtenances to be provided. Construction inspections, watertight tank test inspection, AdvanTex<sup>™</sup> installation inspection, and final operation of system shall be made by designer (BioSphere Consulting) or local distributor and system service provider and the County of Santa Clara Department of Environmental Health (408-918-3400). Construction inspection should include inspection of the following: water tightness of effluent dosing (pump) tank, drip field layout, piping materials and installation, and all associated valves and connections, hydraulic testing of the drip system and functionality and setting of all control devices. Final inspection shall be performed in order to verify that all construction elements are in conformance with the approved plans, specifications, and manufacturer recommendations; all inspection wells are installed; and erosion control has been completed. The installer shall give at least 48 hours notice to each party for all inspections. Designer shall provide final installation approval letter and as-built drawings per DEH requirements. **Electrical Work**
- 6.1. The VeriComm<sup>®</sup> control panel with Logo screen and 110 outlet shall be installed in the location shown on the map *with the bottom of the* panel box at 51" from the ground surface.
- 6.2. One, 20 amp, 120V electrical circuit and two, 20 amp, 230V electrical circuits shall be extended to the VeriComm<sup>®</sup> panel in a single conduit. Underground circuits in separate conduits shall be installed from the panel to the recirculation pump and discharge pump. A separate underground conduit containing a live CAT5 phone line shall be installed to the VeriComm<sup>®</sup> panel. The system will not be finalized until everything (including panel telemetry) is functional.
- 6.3. All work shall conform to the California Electrical Code and the contractor shall be responsible for obtaining any electrical permits required. Site Clean up and Erosion Control Measures
- 7.1. All excavated areas shall be smoothed and all construction debris shall be removed from the site.
- 7.2. All disturbed soils shall be seeded and mulched. Erosion Control Mix seed shall be used at the coverage recommended on the package for all disturbed soil.
- 7.3. Straw shall be used to cover all disturbed soil.
- 7.4. PER DIVISION C12, CHAPTER III OF THE COUNTY CODE (Sec. C12-513. Temporary erosion control.) "The permittee and any person(s) doing, causing or directing the grading shall install and maintain all precautionary measures necessary to protect adjacent watercourses and public or private property from damage by erosion, flooding, or deposition of mud or debris originating from the site. Precautionary measures must include provisions of properly designed erosion prevention and sediment control measures, so that downstream properties are not affected by upstream erosion or sediment transport by stormwater."
- Operating Permit for Alternative OWTS
- 8.1. In addition to the installation permit, an operating permit is required for alternative OWTS per section B11-92 of the Santa Clara County Ordinance.
- 8.2. The operating permit will be issued after completion of the septic system installation and final inspection.
- 8.3. The operating permit is subject to renewal, fees and will be recorded on the deed to the property by the County Recorder of Santa Clara County.

for high groundwater conditions maintenance literature.

8.3'

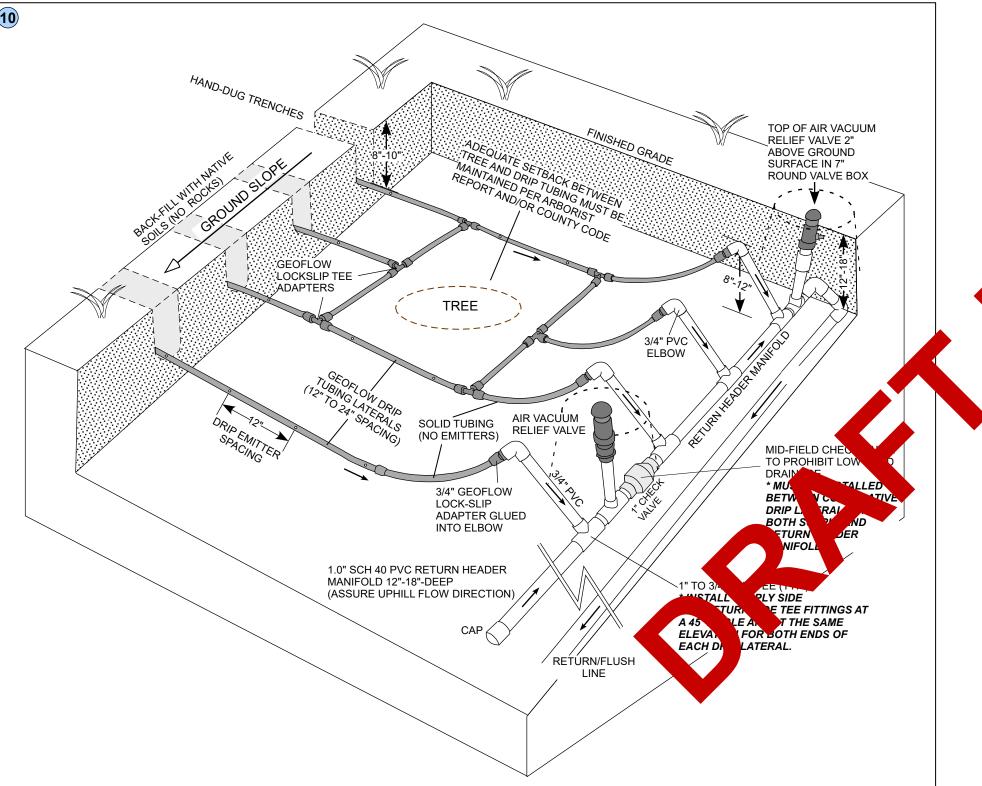
Saddle

(2)

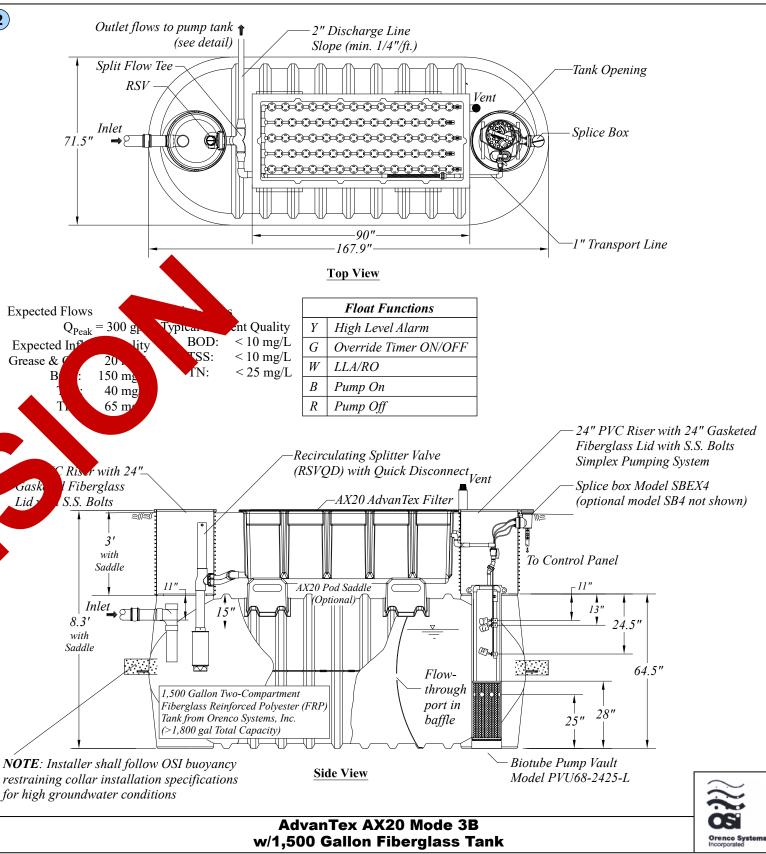
Expected Flows

Expected In.

Grease &







# SYSTEM OPERATION AND MAINTENANCE

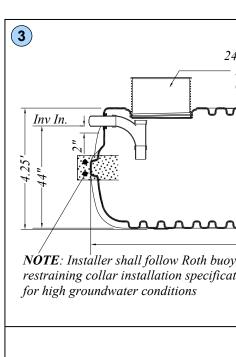
The owner should read and operate the system according to the AdvanTex<sup>TM</sup> & Geoflow operation and Orenco requires biannual maintenance servicing of the AdvanTex<sup>TM</sup> by a qualified technician.

County Environmental Health will issue an OWTS Annual Operating Permit and requires that the property owner maintain a system service agreement/contract with a qualified third-party service provider. This requirement will be placed on the title deed for the property.

The drip fields shall be automatically flushed one zone at a time every 12 months at a minimum. This is done by the control panel software. No drip zone should be left dormant (un-dosed) for more than a few weeks at a

The treatment tank is alive with important microorganisms. Do not add any materials (paint thinner, paint, motor oil, unused medicine, etc.) that may disrupt the biologic treatment process. The primary tank should be pumped when the total of the scum/sludge thickness is greater than 1/3 of the total liquid level depth. DO NOT ROUTE WATER SOFTENER BACKFLUSH DISCHARGE TO TREATMENT SYSTEM! This discharge may be routed directly to a drainfield trench or an approved dispersal field. Repair all plumbing leaks (especially toilet leaks) promptly.

# SUBSURFACE DRIP SYSTEM HEADER/MANIFOLD DETAIL



CHECK VALVE AND AIR VACUUM RELIEF VALVE (DOWNHILL) REQUIRED TO SEPARATE GREATER THAN 7 LATERALS WITHIN A SINGLE ZONE. USE 7" ROUND VALVE BOX (TYP.)

# 1,500 GALLON PUMP TANK DETAIL

	ultiTanK® //ODEL RMT-1500		F	ROTH GLOBAL PLASTICS One General Motors Drive Synause NY, 13206 Call Toll Free 866,943,7256 Call Toll Free 866,943,7256	
			Pai	rt Number: RMT-1500-1P (no baffle)	
iions		K	Pump Off		
vancy tions		R	1		
14.75'	Discharge Pump	B	Pump On		
	High Head	Y	High Level Alarm		
	in Tank		Float Functions		
$\begin{array}{c} 831 \text{ Gallons} \\ \text{in Tank} 23^{"} \end{array} \stackrel{\square}{\blacksquare} 2^{1}$	0" 696 Gallons				
	<i>G</i> Plugged with <i>Capped Pipe</i>	above	this float up to the invert of $g = 831g = 829g$		
829 Gallons 21" Emergency Capacity 21"	Not Drilled or		on float shall be set at 23" gallons below this float ar	from bottom of tank resulting 1d a 829 gallon capacity	
	Pump Package		nvert elevation. [300 gpd x		
	Biotube Easypak	gallon	is is required above the "pi	ump on" float up to the tank	
Gasketed, Bolt-down Lid	Discharge Assembly		n Design Flow: 300 gallon. hieve 1.5 days of emergenc	s per day (gpd) v storage, a capacity of 450	
Riser(s) with Fiberglass,	$rac{1}{2}$ Supply Line	1		,	
4" Diameter Orenco Access	Pressurized drainfield	Specif	fiel pump tank has a max. of tank and 1,660 gallons is	capacity of 1,771 gallons	
		Fmar	gency Storage/Surge Capa	aity.	

## **10** DRIP FIELD PLUMBING SCHEMATIC

REVISION: 05/05/21



Job No.: 19006 APN: 544-39-035 2 OF 3

Job Numi	CONSULTING	(modified by Andrew Brow Job 19004 - P	FILE FIELD	Table A1.3 ation Helen Way Lo	s Gatos APN		est hole I.D.	SP-1	PUMP SELECTION CHART (PRIMARY - ZONE PIGLITSIN Parameters Discharge Assembly Size 1.00 inches Transport Length 5 feet 400 400 400 400 400 400 400 400 400 40
Elevation Parent Ma	54'	4/26/19 Time Slope Gradier	e <u>pm</u> Vegeta nt <u>~40%</u> A	tation varied tree Aspect south Described by A	Geomorphi	c Surface <b>Ba</b> stone	ise of Sl	lope	Transport Line Size     1.00     inches       Distributing Valve Model     None       Max Elevation Lift     5
GRAPHIC LOG Samj Dept	Moisture St	tructure Pores Mo		dury landiat	wet sta	ure Color	Horizon		Design Flow Rate     4.4     gpm     350
	prior analys grade		size contrast amount distinct	<u>2.8 8 7 7 7 7</u>	sticky plastic		AB or EB	distinct topo	Calculations
2-22	m 1	f pl c mc m pr m lg m	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		ss ps LS	Si Provin	E/B AC B	a s c w g i	Frictional Head Losses
1111 3	$\operatorname{wet}^{2}$	vc abb	75	$\begin{bmatrix} 1g & h & fi \\ Vh & vfi \end{bmatrix}$	L	SiC C SC	BA or BE B/E BC or CB C	d   b	Loss through Discharge 0.9 feet Loss in Transport 0.1 feet Loss through Valve 0.0 feet
a Sam	ple th g.≊			none	wet da	Munsell	0	nct	Loss in Transport 0.1 feet Loss through Valve 0.0 feet Loss through Flowmeter 0.0 feet 'Add-on' Friction Losses 87.0 feet
2'	dry m		% distinct   t v1   t v1   t	f l s s d	S sticky	SiCL	A E ABor EB	e distinct	Pipe Volumes       Vol of Transport Line     0.2 gals
5-	$\begin{array}{c} \overbrace{m} \\ m \end{array} $ sg	f pl cm c m pr m lg m	2 d 1 d $<10$	f f lo lo 0 Cos so vfr m m sh fr lg h fi	SS PS LS	SiL Si SiC Brown	E/B AC B BA or BE	c w g i d b	Minimum Pump Requirements     S       Design Flow Rate     4.4       Total Dynamic Head     92.9
6-	wet 3	vc abk	5 50 75 >75 000 1000 100	5 ah afi	vs vp L CL	С	B/E BC or CB C		Pipe volumes       Vol of Transport Line     0.2     gals       Minimum Pump Requirements     200       Design Flow Rate     4.4     gpm       Total Dynamic Head     92.9     feet       PumpData     150       PF1005 High Head Effluent Pump
7 – Samı Dept	th_g.s	ty ty	unt inct	dry moist	<u> </u>	Munsell	0	distinct  topo	PF1005 High Head Effluent Pump 10 GPM, 1/2HP 115/230V 1Ø 60Hz, 200V 3Ø 60Hz
3 —	dry m	vf gr f s f	1   f v1   f	$\int f f f lo lo$	so po S S	SiCLDarkSiLYellowish	A E AB or EB E/B	a s c w	100
9-	m 1	f pl C m c m pr m lg m c cpr	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	m m sh fr lg h fi	S D SL	Si Brown SiC C	BA or BE B/E	g   i d   b	Legend
I <b>O</b>		c cpr	010 1010 1010	5	Ö	sc	BC or CB C		SystemCurve:50
I1-	th of SIS	size  type <u>quantity</u> - size quantity	size  contrast amount distinct	quantity size soft/ hard hard hard friable	<sup>sti</sup> tic	Munsell (moist)	O A E	distinct  topo	PumpCurve:
1 <b>2</b> -	dry m sm sg	vf gr f s f   f p c m c	$\begin{array}{c c} 1 & f \\ 2 & d \\ \end{array} \begin{array}{c c} v1 & f \\ 1 & d \\ \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \begin{array}{c c} \\ \hline \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \begin{array}{c c} \\ \hline \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \begin{array}{c c} \\ \end{array} \end{array} \end{array} \end{array} \begin{array}{c c} \\ \end{array} \end{array} \end{array} \begin{array}{c c} \\ \end{array} \end{array} \end{array} \end{array} $	f f lo lo	$\overrightarrow{B}$   $\overrightarrow{B}$   $\overrightarrow{a}$   $\overrightarrow{and}$   $\overrightarrow{100}$   $\overrightarrow{s}$   $\overrightarrow{so}$   $\overrightarrow{po}$   $\overrightarrow{S}$   $\overrightarrow{S}$	SiCL	E AB or EB E/B AC	a s c w	PumpOptimal Range:
13	m 1	m   pr m   lg m     c   cpr     vc   abk	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} \mathbf{m}_{ }^{\dagger}\mathbf{m} & \mathbf{sh} & \mathbf{fr} \\ \mathbf{h}_{ }^{\dagger}\mathbf{lg} & \mathbf{h} & \mathbf{fi} \\ \mathbf{h}_{ } & \mathbf{vh} & \mathbf{vfi} \end{bmatrix}$	vs vp L	SiC C	B BA or BE B/E BC or CB	g   i d   b	DesignPoint O
<b>4</b> _]		sbk	none none none	<sup>5</sup> eh efi	CL	SC	C		
<b>Bio</b> Sphere	: Consultinț	SOIL PROI	FILE FIELD ]	LOG Table A1.3		т	est hole	SP-2	
Job Numl Date Soil	ber/Name: Sampled	Job 19004 - P 4/26/19 Time	<b>Piglitsin</b> Loca	ation Helen Way Lo tation varied tree Aspect south	os Gatos APN es		35		
Elevation Parent Ma GRAPHIC	aterial(s)			Described by	ndrew Brown	stone		_	
0 – LOG Dept	Moisture St	tructure Pores Me		dry moist	wet sh	ure Color			
1-1-5	prior analys grade	type	% distinct	0.887174		a' at	AB or EB	a distinct s topo	
2	dry m sm sg m 1 ym 2	f nl c mc	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c} f & f \\ 0 \\ \hline c \\ m \\ m \\ b \\ 1 \\ c \\ c \\ s \\ s \\ s \\ s \\ r \\ c \\ s \\ s \\ r \\ c \\ s \\ s \\ r \\ r \\ s \\ r \\ r \\ s \\ r \\ s \\ r \\ s \\ r \\ s \\ r \\ r$	s p LS	SiCL SiL Si SiC SiC SiC	E/B	a   s   c   w   g   i   d   b	Performance (PH) 7
3-22	wet $3$	m pr m g m c cpr vc aby sbk	>75	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	vs vp L CL	С	BA or BE B/E BC or CB C		Depth         2.48'         2.           Stabilized         R         1.10         1
4 – Samı Dept	or to lysis i	 		dry moist	wet stic	Munsell	0	stinct 	sted Standed MPI $R_1$ =R x 1.41.542.abilized MPI $R_2$ =(? $R_1$ )/#HolesBedrooms:FOR OFFICE USE ONLYTANK SIZE (Gal)
5 - 2'	dry m	t type	1 f v1 f			SICL	A B B b r	a	FOR OFFICE USE ONLY TANK SIZE (Gal)
6-	sm sg m 1 vm 2	f pl cm c m pr m lg m c cpr	3 50	lg h fi	so po ss ps s p vs vp	SiL Si SiC C	B. B.	g	
7	wet 3	c     cpr       vc     obs       sbk     i       none     none	75 >75	<sup>5</sup> eh efi	CL	sc	BC or C C		
	-11 ଅନ୍ତା ବ	ype	size  contrast amount distinct	quantity size soft/ hard floose/ friable	the strict wet strict wet strict wet strict we	Yunsell sit nist)	A	distinct topo	
9 —	dry m	f pl c m c	1 f v1 f	$\int f d d d d d d d d d d d d d d d d d d $	so po S S so po LS	SiCL Da	AT B AC	a s c w	
	m (1)	m         pr         m         lg         m           c         cpr         1         1         1           vc         abk         1         1         1           i         bbb         1         1         1           none         none         1         1         1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	m m ch fr	s p SCL vs vp L	SiC C	BA or BE B/E BC or CB	g   i d   b 	
IO	ple	none none 1	on ron non	ie none	węt du	<u>SC</u>	C		
	prior analy, grade	size type guantity size	size contrast amount distinct	quantit =	sticky plastic		A E	distinct  topo	
2-	I sm I sa	$vf_{\parallel}gr_{\parallel}f_{\parallel}sf_{\parallel}sf_{\parallel}$ $f_{\parallel}f_{\parallel}pl_{\parallel}c_{\parallel}m_{\parallel}c_{\parallel}$	$\begin{array}{c c}1 & f \\ 2 & d \\ \end{array} \begin{array}{c c}v1 & f \\ 1 & d \\ \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \begin{array}{c c} \\ \hline \end{array} \begin{array}{c c} \\ \hline \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \end{array} \begin{array}{c c} \\ \hline \end{array} \end{array} \end{array} $	$\int f f l f lo lo$	so po LS ss ps SL	SiCL Dark SiL Yellowish Si Brown	AB or EB E/B AC B	a s c w g i	
3	wet 3	$ \begin{array}{c} \mathbf{m} \\ \mathbf{m} \\ \mathbf{r} \\ \mathbf{c} \\ \mathbf$	3	lg h   fi   vh vfi   b   eh   efi	vs vp SCL L	SiC C SC		d b	
<b>4</b>		none 101 1	non ron non		GRAVE	ELLY	<u> </u>	1	
Blo <mark>Sphere</mark>	e Consulțiinț	SOIL PROI	FILE FIELD ]	LOG Table A1.3		т	est hole	SP-3	
Job Numl Date Soil S	ber/Name: Sampled	Job 19006 - P 06/12/19 Time	<b>Piglitsin</b> Loca	ation Helen Way Log			<u>)35</u>		
GRAPHIC	aterial(s) <u>S</u>			_ Described by _A				-	
0 LOG Sam	Moisture St			Roots     Consister       Ary     dry       Main     dry	wet day	Are Color Munsell			
1-22			1   f   v1  f		S S sticky S S plastic S S plastic	(moist)	A E AB E/B	e distinct s topo	
2-2-	m   1	f pl cm c m pr m lg m	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	f f f     lo     lo       c + s     so     vfi       m m     sh     fr       lg     h     fi	s   p vs   vp SCL	Si Brown SiC	AC B BA or BE	c   w g   i d   b	
3-20	wet 3	c     cpr       vc     abb       u     sbk       u     sbk	75	vh   vfi		С	B/E BC or CB C		
4 - Sam	th g.s	 tity	unt inct	dry moist	sticky plastic second pustic second pustic second pustic plastic second pustic second	Munsell		distinct  topo	
5-0		vf gr f s f	1 f v f		SOPO IS	SiCL SiL Dark	ABor EB E/B	a c w tol	
6-0	$\begin{array}{c c} m & 1 \\ m & 2 \end{array}$	$ \mathbf{m} \mathbf{pr} \mathbf{m} \mathbf{lg} \mathbf{m} $		f f f lo c i s so off m m sh fr lg h fi v th vf	$ \begin{array}{c c} s\bar{s} & p \\ s & p \\ vs & vp \\ l \end{array} \begin{array}{c} Ls \\ SL \\ SCL \\ L \end{array} $		AC B BA or BE B/E	g   i d   b	
	wet 3		>75	<sup>5</sup> eh efi	CL		BC or CB C		
7 – Sam		size type type size equantity	size  contrast amount distinct	quantity size soft/ hard friable friable		Munsell (moist)		distinct  topo	
7 – Sam	E 문 드	vf gr $fQs$ $f$ $r$	$\begin{array}{c c} \mathbf{x} & \mathbf{x} & \mathbf{x} \\ 1 & \mathbf{f} & \mathbf{v1} & \mathbf{f} \\ 2 & \mathbf{d} & 1 & \mathbf{d} \end{array}$	$\begin{array}{c c} \hline f & f \\ c & s \\ \hline \end{array} \begin{array}{c} \hline f & f \\ s \\ \hline \end{array} \begin{array}{c} \hline f & f \\ s \\ \hline \end{array} \begin{array}{c} \hline f & f \\ s \\ \hline \end{array} \begin{array}{c} \hline f \\ s \\ \end{array} \begin{array}{c} \hline f \\ s \\ \end{array} \end{array} \begin{array}{c} \hline f \\ s \\ \end{array} \begin{array}{c} \hline f \\ s \\ \end{array} \end{array} $		a' cr	ABor EB E/B	a s c w	
7 – Samı <u>Dept</u> 8 – <b>6</b>	dry m sm sg	m   pr   m   g m	3   p 2   p 25 3   25 50 75 >75	$ \begin{array}{c c} f & f \\ c & s \\ m & m \\ lg \\ h \\ f \\ r \\ r$	so po ss ps s p vs vp vs vp CL	Sic Med Si Dark Sic Brown C SC	AC B BA or BE B/E BC or CB	g   i d   b	
7 – Samj B – <b>6</b> 9 –	$\begin{array}{c c} \hline \mathbf{E}_{1} & \mathbf{E}_{2} \\ \hline \mathbf{E}_{1} & \mathbf{E}_{2} \\ \hline \mathbf{C}_{1} & \mathbf{E}_{2} \\ \hline \mathbf{C}_{1} & \mathbf{E}_{2} \\ \hline \mathbf{C}_{2} \\ \mathbf{C}_{2} \\ \mathbf{C}_{1} \\ \mathbf{C}_{2} \\ C$	vc abk			CL	SC	C	1	
7 – Sam B – 6' 9 – 10– Sam	dry m sm sg m 1 vm 2 wet 3		on ron non			y			
7 – Sam B – 6' 9 – 10 –	dry m sm m vm vm 2 wet 3 sple grade 0 stade 1 grade 1	iype	size contrast amount distinct	quantity size soft hard friable friable	sticky web plastic 00 plastic	Munsell (moist)	O A E	distinct  topo	
7 – Sam B – 6' 9 – 10– Sam	dry m sm sg m 1 2 wet 3 pute oj sisi pute dry m sg m sg m sg m 1 2 wet 3		size contrast amount distinct	A dry moist A dry moist hard dry moist hard dry moist hard dry moist hard dry moist hard dry moist		SiCL	A	q p a distinct q i a distinct d i p a c b c c c c c c c c c c c c c c c c c	





<b>EOFL</b>	DW
<b>JBSURFACE</b>	DRIP

	Updated Sept 2019	
FIELD FI	LOW	
Job Description:	Piglitsin	
Contact:	Andrew Brownstone	
Prepared by:	Samantha Orozco	
Date:	12-Mar-21	

### Total field

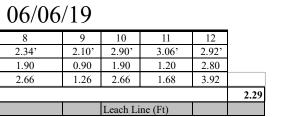
	Total Quantity of effluent to be disposed per day	300	gallons / day	note
	Hydraulic loading rate	0.6	gallons / sq.ft. / day	note
	Minimum Dispersal Field Area	500	square ft.	note
	Total Dispersal Field Area	500	square ft.	note
F	low per zone			
	Number of Zones	1	zone(s)	note
	Dispersal area per zone	500	square ft.	note
	Choose line spacing between WASTEFLOW lines	1	ft.	note
	Choose emitter spacing between WASTEFLOW emitters	1	ft.	note
	Total linear ft.per zone (minimum required)	500	ft. per zone	note
	Total number of emitters per zone		emitters per zone	note
	Select Wasteflow dripline (16mm)	Wasteflow PC - 1/2gph	dripline	note
	Pressure at the beginning of the dripfield	25	psi	note
	Feet of Head at the beginning of the dripfield	57.75	ft.	note
	What is the flow rate per emitter in gph?	0.53	gph	note
	Dose flow per zone	4.42	gpm	note

	Select flush velocity	0.5	ft/sec	note
	How many WASTEFLOW laterals per zone?	18	lines	note
	Fill in the actual length of longest WASTEFLOW lateral	30	ft.	note
	Flush flow required at the end of each dripline	0.37	gpm	note
	Total Flow required to achieve flushing velocity	6.66	gpm	note
	Total Flow per zone- worst case scenario	11.08	gpm	note
S	elect Filters and zone valves			
	Select Filter Type	BioDisc Filter		note
	Recommended Filter (item no.)	BioDisc Filter-150	1.5in < 30 gpm	note
	Select Zone Valve Type	None	-	note
	Recommended Zone Valve (item no.)	0	0	note

## Dosing Number of doses per day / zone:

Number of doses per day / zone:	12	doses	note
Timer ON. Pump run time per dose/zone:	5.66	mins.	5:39
Timer OFF. Pump off time between doses	1.87	hrs.	1:52
Per Zone - Pump run time per day/zone:	1.13	hrs.	1:07
All Zones - Number of doses per day / all zones	12	doses / day	
Allow time for field to pressurize	0.500	mins.	0:30
Filter flush timer	0.350	mins:secs	0:21
Drain timer	5.000	mins:secs	5:00
Field flush timer	1.000	mins:secs	1:00
Field flush counter	3	cycles	note
Time required to complete all functions per day		hrs.	!!!
Dose volume per zone	25	gallons per dose	note

12 doses

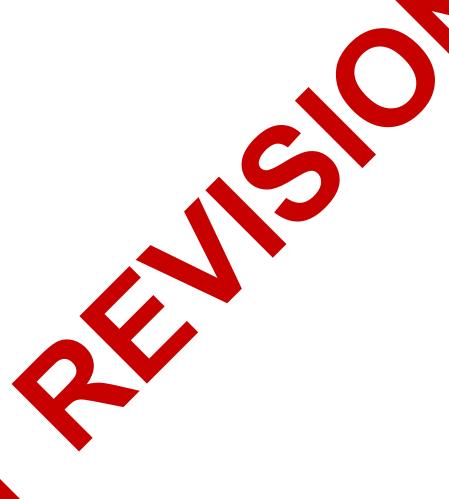


# GEOFLOW SUBSURFACE DRIP

Job Description:	Piglitsin	
Contact:	Andrew Brownstone	
Prepared by:	Samantha Orozco	
Date:	3/12/2021	

Pressure losses may be grossly overstated, particularly if designing with WASTEFLOW Classic The letters on the diagram(right) match the letters in section 2 below. ...

	Pump Model Number		
	- The Flught low	110	
ł	- Filter Flush Flow	na .	
╞	- Field Dose Flow	4.4 m	
-	Pump capacity * - Field Flush & Dose Flow	11.1 gpm	<u> </u>
	Total dynamic head	87 ft.	37 psi
+	Pressure loss/gain in 100 ft. of pipe Total gain or loss from pump to field	7.61 ft.	3.29 psi 11.85 psi
	Elevation change. (if downhill enter 0)	14 ft.	
	Height from pump to tank outlet	6 ft.	
	Equivalent length of fittings	20 ft.	
	Length of supply line	77 ft.	
	Select Supply line diameter	1" inch	
<b>'</b> .	Supply line - Minimum Pressure head required to get fro Select Pipe from dropdown menu	PVC schedule 40	eid
		m numn tank to ton of drinfi	
1	Total loss through drip components	2.31 ft.	1.75 psi
	Other pressure losses	- ft.	- psi
+	Zone valve pressure loss (not in diagram) Flow meter pressure loss (not in diagram)	1.73 IL. ft.	0.75 psi 0.75 psi
_	Filter	0.6 ft. 1.73 ft.	0.25 psi 0.75 psi
	Drip components - Losses through headworks		
	Great! SPECIFIED Pressure is greater than CALCULATE	D Pressure requirement. Go to	o next step
	SPECIFIED pressure at beginning of dripfield (from work	,	25.00 psi
╡			
.+t 	B. Minimum Pressure required at beginning of dripfield [CALCULATED] pressure required at entry to driplines]	23.39 ft.	10.13 <i>psi</i>
<u> </u>		20.00 11.	10.10 00
╡	Total min. pressure at inlet to driplines	23.39 ft.	10.13 psi
┥	Loss through dripline during flushing	0.29 ft.	0.13 psi
+	Length of longest dripline lateral Minimum dosing pressure required at end of dripline	<b>30</b> ft. 23.10 ft.	10.00 psi
·. 	Dripline - Losses through Wasteflow dripline	20 #	
1			
+	Total pressure loss from end of dripline to return tank	1.9 ft.	0.82 psi
	Pressure loss in 100 ft of pipe	2.97 ft.	1.28 psi
	Elevation change. (if downhill enter 0)	<b>0</b> ft.	
	Length of return line Equivalent length of fittings	49 ft. 15 ft.	
	Select Flush Line Diameter	1" inch	ļ
	Select Pipe from dropdown menu	PVC schedule 40	
۱.	Flush line - Losses through return line		
Se	ction 2	Ft of head	Pressu
	Dripline longest lateral	30.00 ft.	
	Dripline	Wasteflow PC - 1/2gph	
- P	Zone valve		
	No. of Zones	1 zones	6
ľ	Filter	BioDisc Filter-150	
	Flow required to dose & flush field	11.08 gpm	
	Flow required to flush field	6.66 gpm	
	Flow required to dose field	4.42 gpm	





### TABLE DD-2. DRIP DISPERSAL SYSTEM MANAGEMENT REOUIREMENTS

	REQUIREMENTS	
	WORK	FREQUENCY
Inspection	<ul> <li>Conduct routine visual observations of drip field, downslope area and surroundings for wet areas, pipe leaks or damage, soil erosion, drainage issues, abnormal vegetation, gophers or other problems.</li> <li>Conduct routine physical inspections of system components, including valves, filters, and headworks box(es).</li> <li>Perform special inspections of drip field at time of any landscaping work or other digging in drip field area.</li> <li>Perform inspections of dosing pump(s) and appurtenances (per O&amp;M manual and Performance Evaluation Guidelines, Part 5 of this Manual).</li> <li>Record observations.</li> </ul>	• Every 6 to 12 months.
Maintenance	<ul> <li>Manually remove and clean filter.</li> <li>Clean and check operation of pressure reducing valves.</li> <li>Clean flush valves and vacuum release valves.</li> </ul>	<ul> <li>Clean filter every 6 months.</li> <li>Other maintenance annually.</li> </ul>
Water Monitoring & Sampling	<ul> <li>Measure and record water levels in dispersal field monitoring wells, as applicable, per permit requirements.</li> <li>Obtain and analyze water samples from dispersal field monitoring wells, as applicable, per permit requirements.</li> </ul>	<ul> <li>According to permit conditions, if applicable.</li> </ul>
Reporting	<ul> <li>Report findings to DEH per permit requirements.</li> <li>Standard report to include dates, monitoring well and other data collected, work performed, corrective actions taken, and performance summary.</li> <li>Report public health/water quality emergency to DEH immediately.</li> </ul>	<ul> <li>According to permit conditions, typically every 1 to 2 years, depending on systems size, usage, history, location.</li> </ul>





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Alternative Wastewater System Design

ONSITE WASTEWATER TREATMENT SYSTEM **DESIGN PLAN** 

SSIONAL GEOL
ANDREW BROWNSTONE
No. 7453 Exp. 12/31/21
OF CALIFOR

<b>Project Location:</b>		Helen Way, Los Gatos, California			Clara County]		
Property Owner: Mailing Address:		Roman Piglitsin1008 Andy Circle, Sacramento, CA 95838					
Date:	03/19/21	By: David Quinn / Andrew Brownstone		Sheet:			
REVISIO	<sup>N:</sup> 05/05/21		<b>Job No.:</b> 19006	APN: 544-39-035	<b>3</b> OF 3		