

PROJECT INFORMATION

THE SCOPE OF THIS BUILDING PERMIT APPLICATION IS INCLUDE A NEW ONE-STORY MAIN SINGLE FAMILY HOUSE, AND A SEPARATE 2ND DWELLING UNIT, ALONG W/ A CABANA ON AN OPEN WOOD DECK PLATFORM AT REAR YARD, LOCATED AT AN VACANT HILL SITE.

1. ZONING: R1-H APN # 029-06-034-038	LOT SIZE: 55,323 SF = 1.27 AC
2. BUILDING HT: 17' MAXIMUM TO FINISH GRADE	BUILDING AREA: MAIN RESIDENCE 5,807 SF < 6,000 SF 2ND UNIT 1,195 SF < 1,200 SF
3. BUILDING COVERAGE: (5,807+1,195 SF) / 32,722 = 22%	IMPERVIOUS AREA RATIO = 7,994 / 32,722 = 24.4%
USE TYPE: GROUP USE OCCUPANCY R-2	
4. CONSTRUCTION TYPE: A, W/ THROUGH FIRE SPRINKLER SYSTEM ON BOTH MAIN AND 2ND UNITS	

TOTAL BUILDING AND SITE IMPERVIOUS AREA CALCULATION:

A. MAIN HOUSE BUILDING FLOOR AREA =	5,807 SF (3 CAR GARAGE AREA 667 SF INCLUDED)
C. 2ND SEPARATED UNIT FLOOR AREA =	1,195 SF
D. IMPERVIOUS AREA ON SITE IMPROVEMENT (WALK PAD, RETAINING WALL, VALLEY GUTTER, STEPS, OPEN PATIO) SEE A1 PLAN.	992 SF
TOTAL IMPERVIOUS AREA = (A) TO (D)	5,807 SF + 1,195 SF + 992 SF = 7,994 SF < 8,000 SF ALLOWED OK!

CODES AND REGULATIONS COMPLIANCE

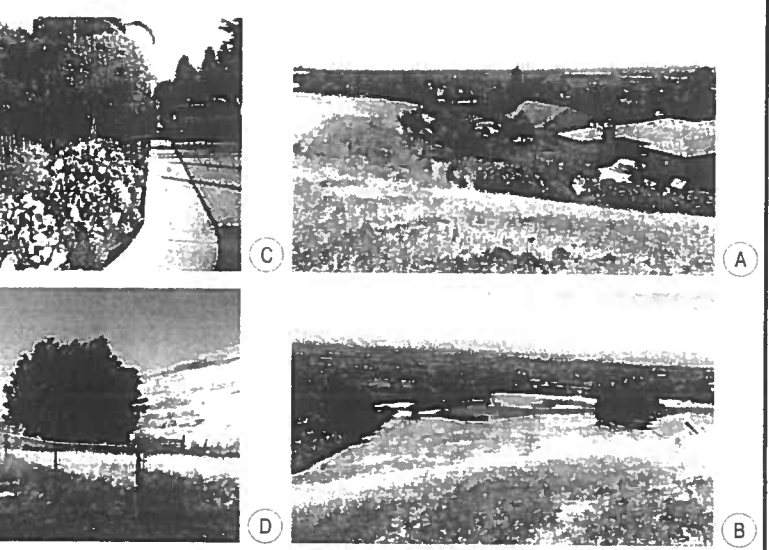
California Codes		City Ordinance #
a. California Fire Code	2016 Edition	NFPA 13D
b. California Residential Code	2016 Edition	RESTORATION No. 6066
c. California Building Code	2016 Edition	BY CITY COUNCIL
d. California Mechanical Code	2016 Edition	
e. California Plumbing Code	2016 Edition	
f. California Electric Code	2016 Edition	
g. California Green Building Standards Code	2016 Edition	Cal Green
h. Wildland-Urban Interface Fire Area Code	2016 Edition	
i. California Energy Code	2016 Edition	CEC
j. Milpitas Municipal Code	2017 Edition	

DRAWING INDEX

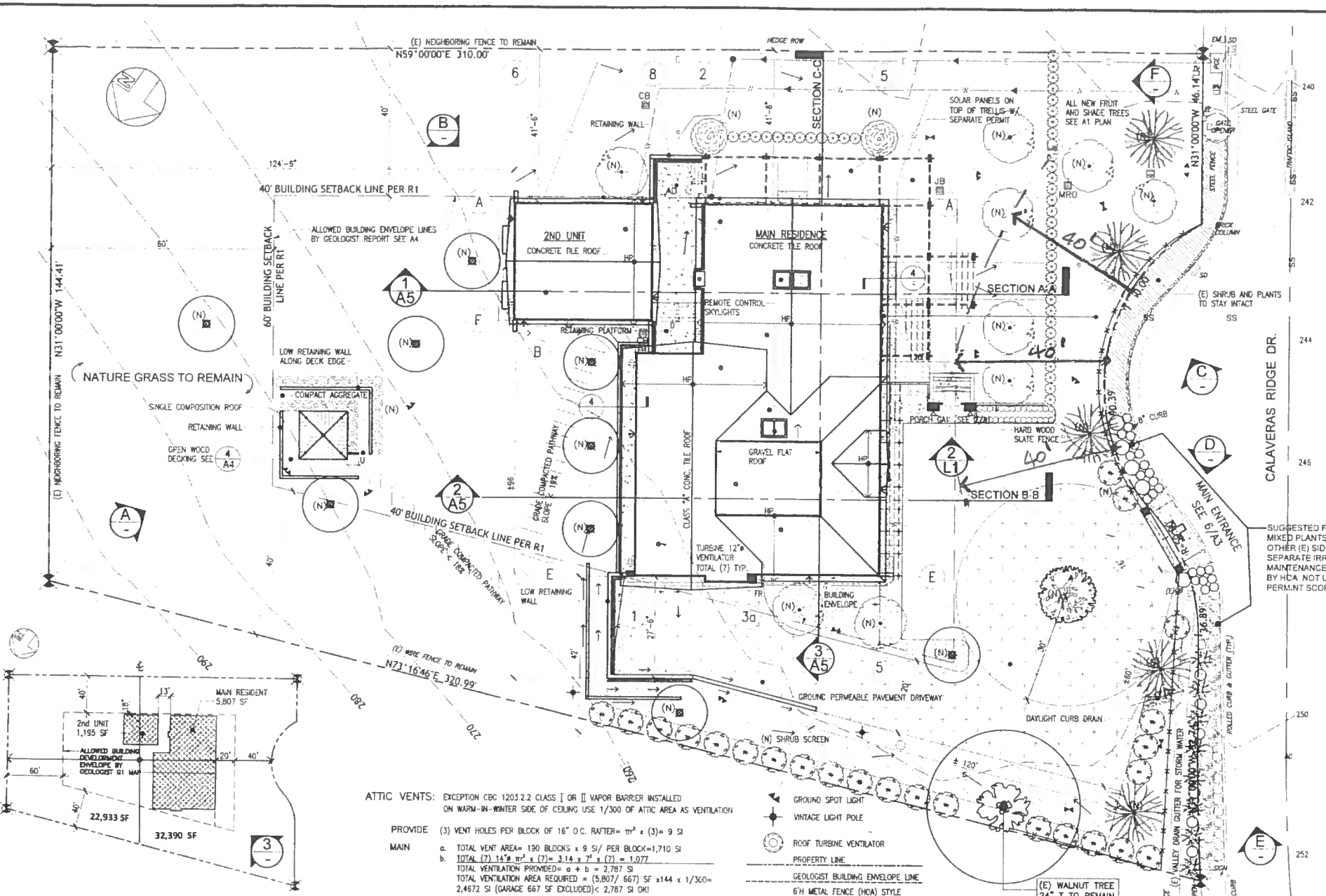
A1	PROJECT INFORMATION/ SITE PLAN AND ROOF PLAN
A2	GROUND FLOOR PLAN
A3	ENTRANCE & BUILDING ELEVATIONS
A4	CABANA OPEN DECK & BUILDING SECTIONS
A5	HOUSE REFLECTION CEILING PLAN
A6	UNDERGROUND PIPES/PARKING CURB/FIRE CONNECTION
A7	UNDER FOUNDATION PIPES & RETAINING WALL/CLEAN OUT
A8	PG&E AND PIPE TRENCH/TREE INSTALLATION/PERMEABLE PAVEMENT
C0.1-C4.3 CIVIL SET TOTAL 9 SHEETS	
L1	LANDSCAPE PLANTS
L2 & L3	IRRIGATION/HYDROZONE PLAN
G1	GEOLOGICAL MAP AND BUILDING DEVELOPMENT BOUNDARY
T1	TOPO SURVEY MAP

REVISIONS

NO.	DESCRIPTION	DATE



5 (E) SITE PHOTO VIEW



2 BUILDING ENVELOPE DIAGRAM
ALLOWED BY GEOLOGIST SEE G-1 TOTAL = 55,323 SF

ATTIC VENTS: EXCEPTION CBC 1203.2.2 CLASS [I] OR [II] VAPOR BARRIER INSTALLED ON WARM-IN-WINTER SIDE OF CEILING USE 1/300 OF ATTIC AREA AS VENTILATION

PROVIDE: (3) VENT HOLES PER BLOCK OF 16" O.C. RAFTER = $m^2 \times (3) = 9 \text{ SI}$

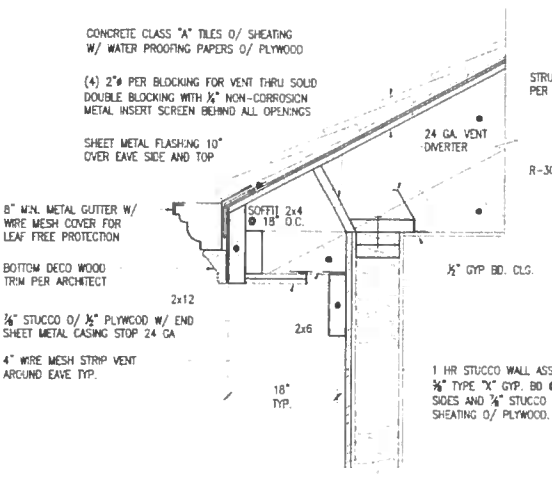
MAIN:

- TOTAL VENT AREA = 190 BLOCKS $\times 9 \text{ SI/PER BLOCK} = 1,710 \text{ SI}$
- TOTAL (7) 14" $\times 14"$ VENT = $3.14 \times 7^2 \times (7) = 1,077 \text{ SI}$
- TOTAL VENTILATION PROVIDED = $a + b = 2,787 \text{ SI}$
- TOTAL VENTILATION AREA REQUIRED = $(5,807 / 667) \text{ SF} \times 144 \times 1 / 300 = 2,467.2 \text{ SI}$ (GARAGE 667 SF EXCLUDED) < 2,787 SI OK!

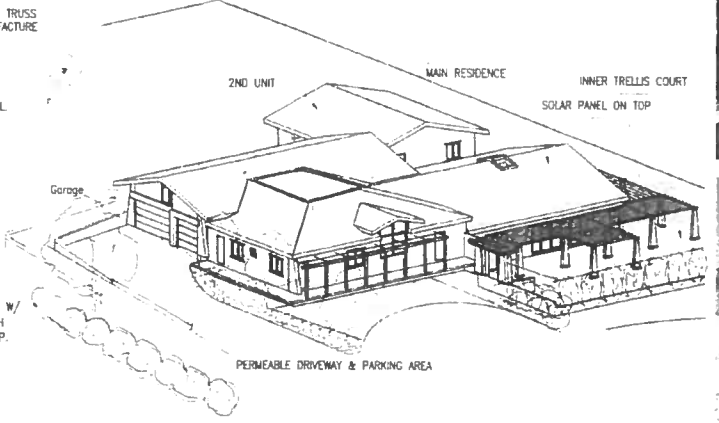
2ND UNIT:

- TOTAL VENT AREA PROVIDED = $(37+37)$ BLOCKS $\times 9 \text{ SI/PER BLOCK} = 666 \text{ SI}$
- 2" ROUND VENT @ GABLE END = $m^2 \times 2 = 404 \text{ SI}$
- TOTAL VENTILATION AREA REQUIRED = $1,195 \text{ SF} \times 144 \times 1 / 300 = 574 \text{ SI}$
- TOTAL VENTILATION AREA PROVIDED = $a + b = 1,570 > 574 \text{ OK!}$

1 SITE AND ROOF PLAN
SEE A1, A2 & L1 FOR SITE IMPROVEMENT AND LANDSCAPE PLAN
1/16" = 1'



4 ROOF EAVE DETAILS
SEE STRUCTURE PLANS FOR MANUFACTURED TRUSS DETAILS



3 3D MODEL VIEW

REVISIONS

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Date 02-05-19

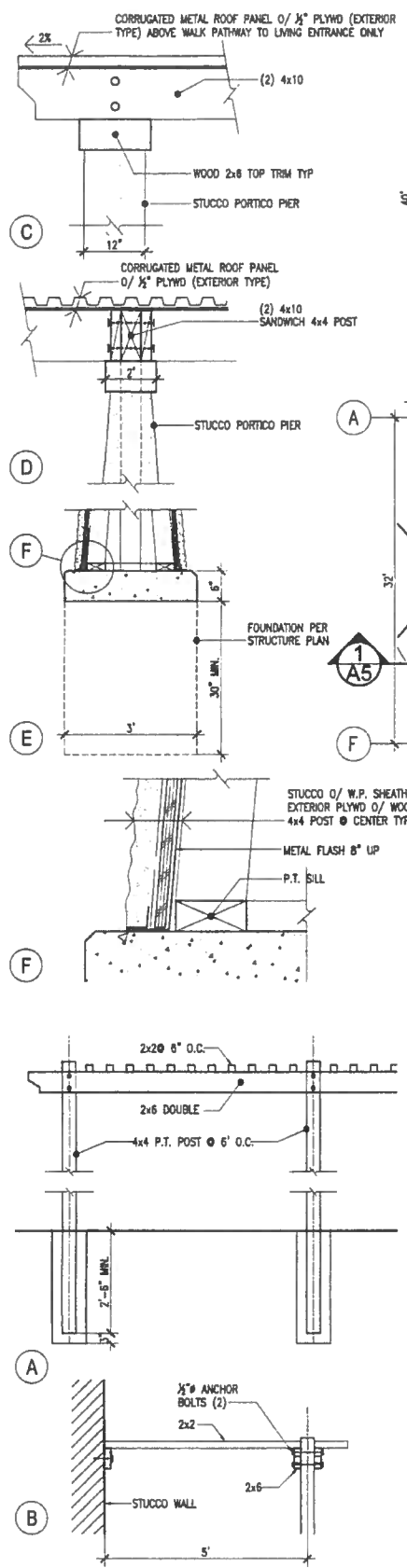
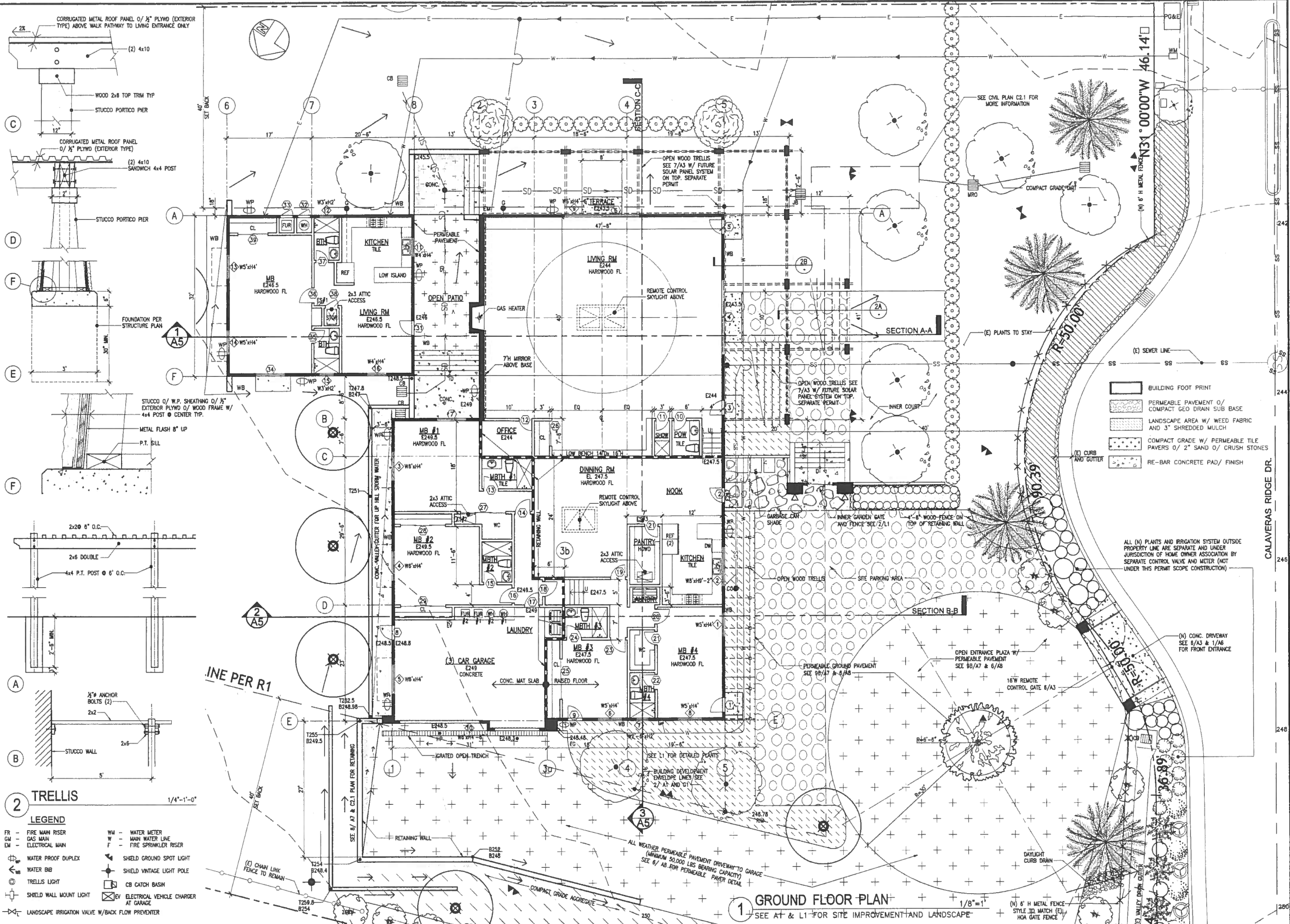
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File

Sheet **A1**



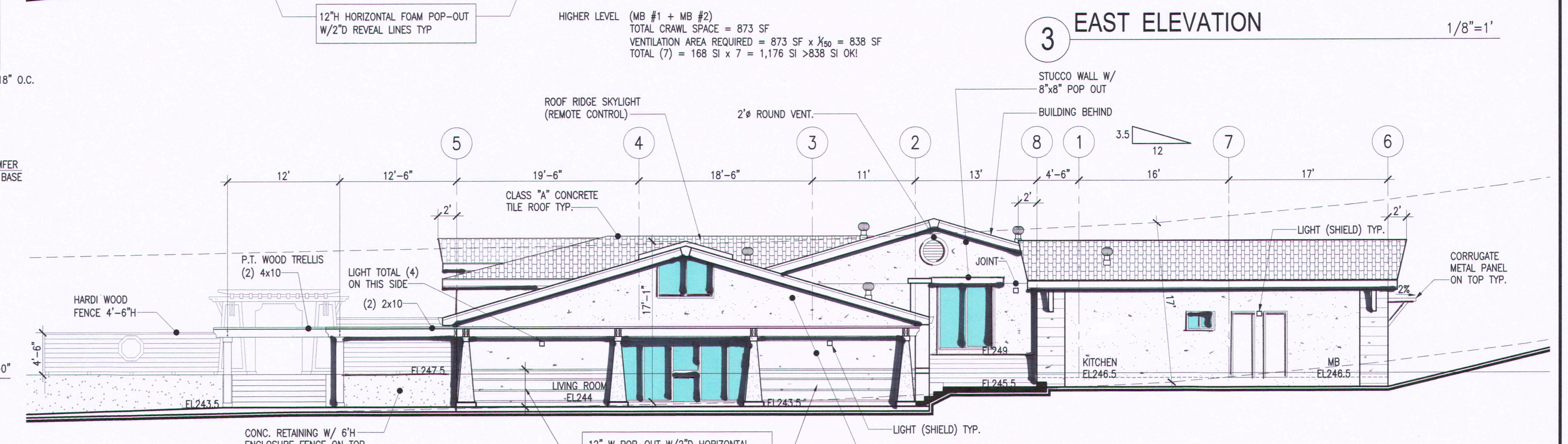
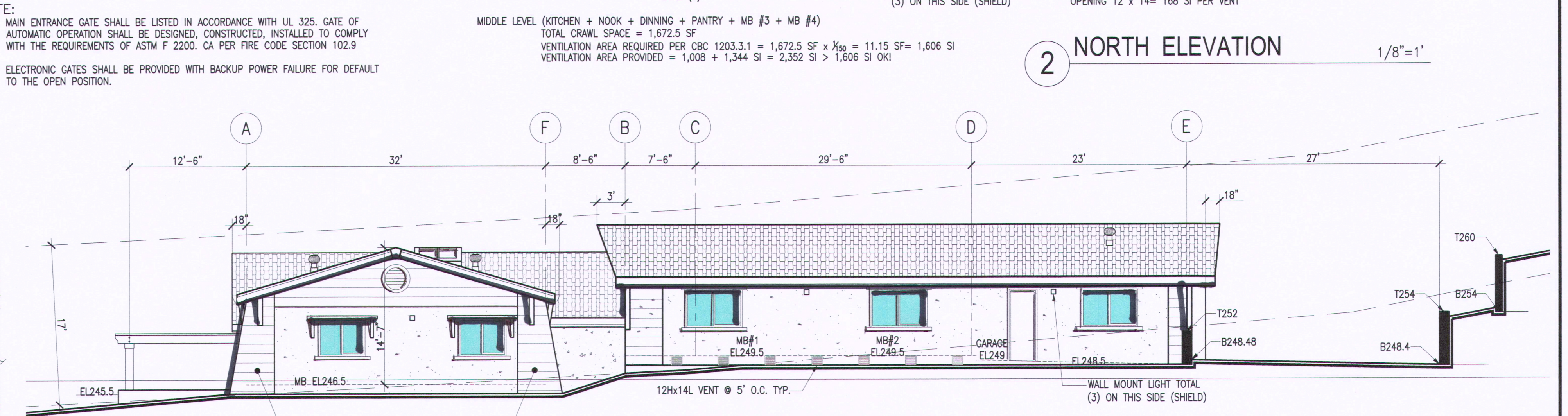
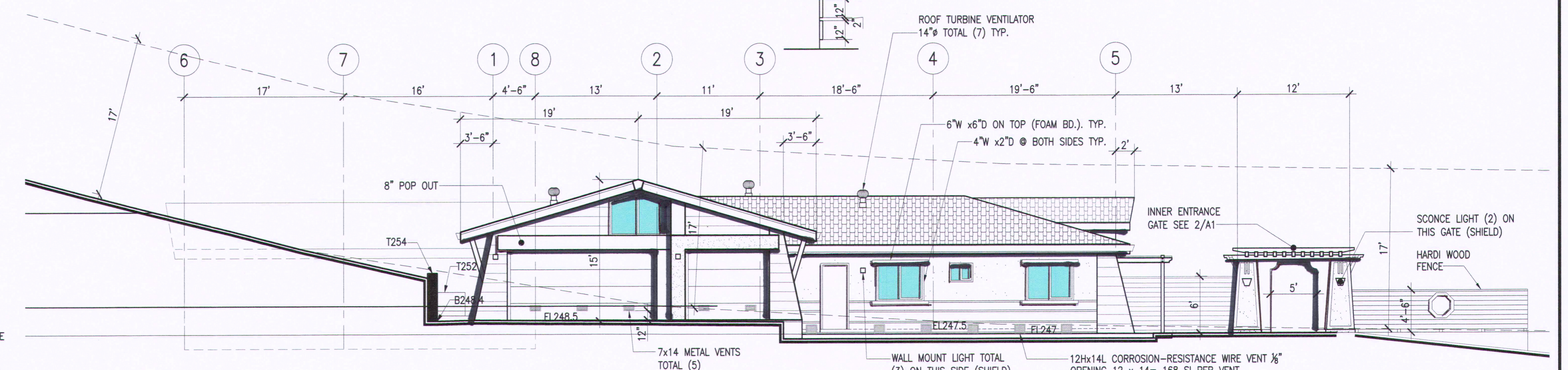
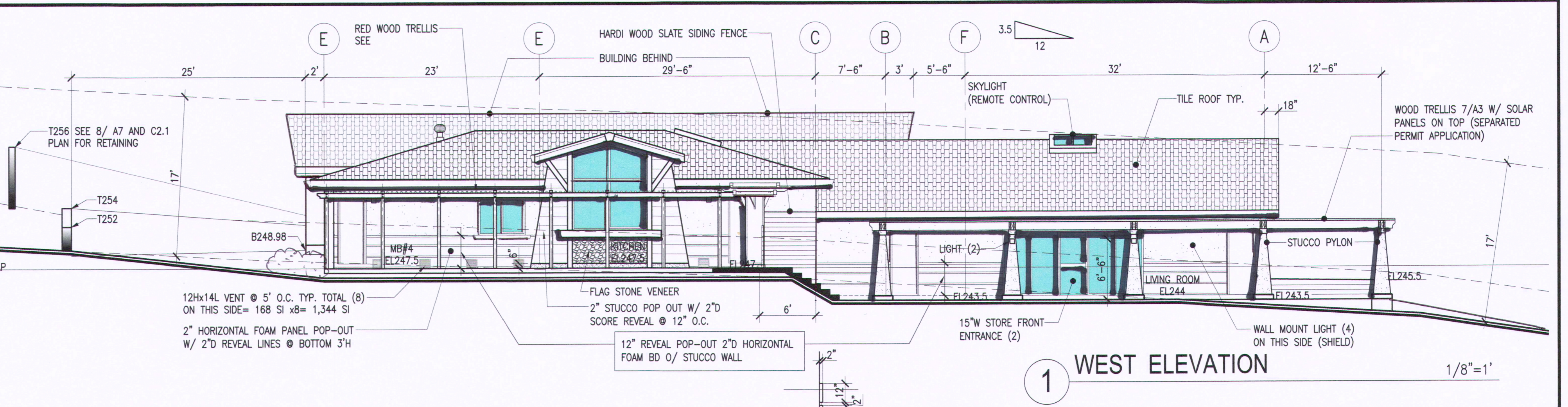
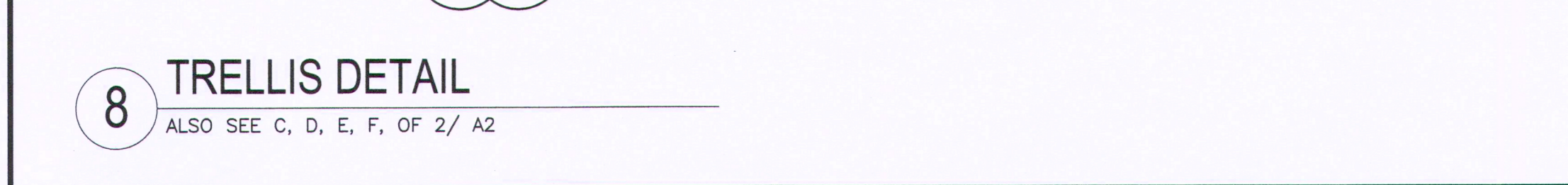
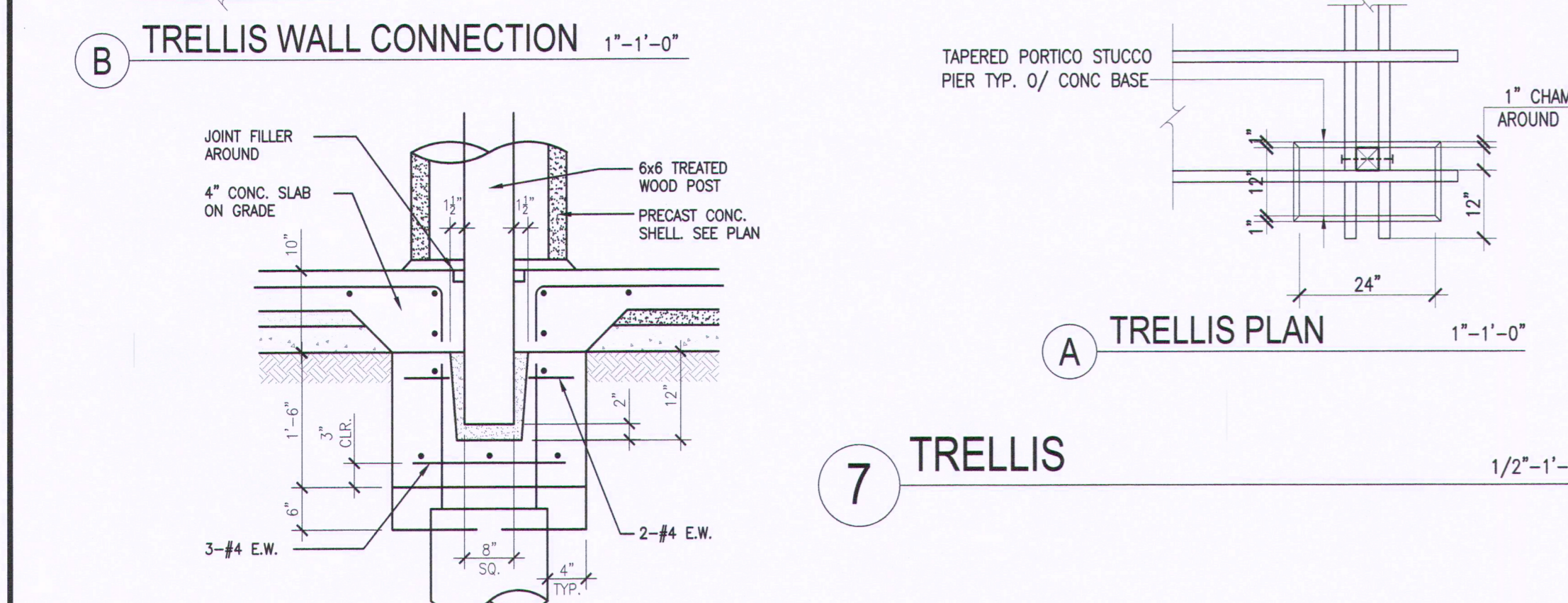
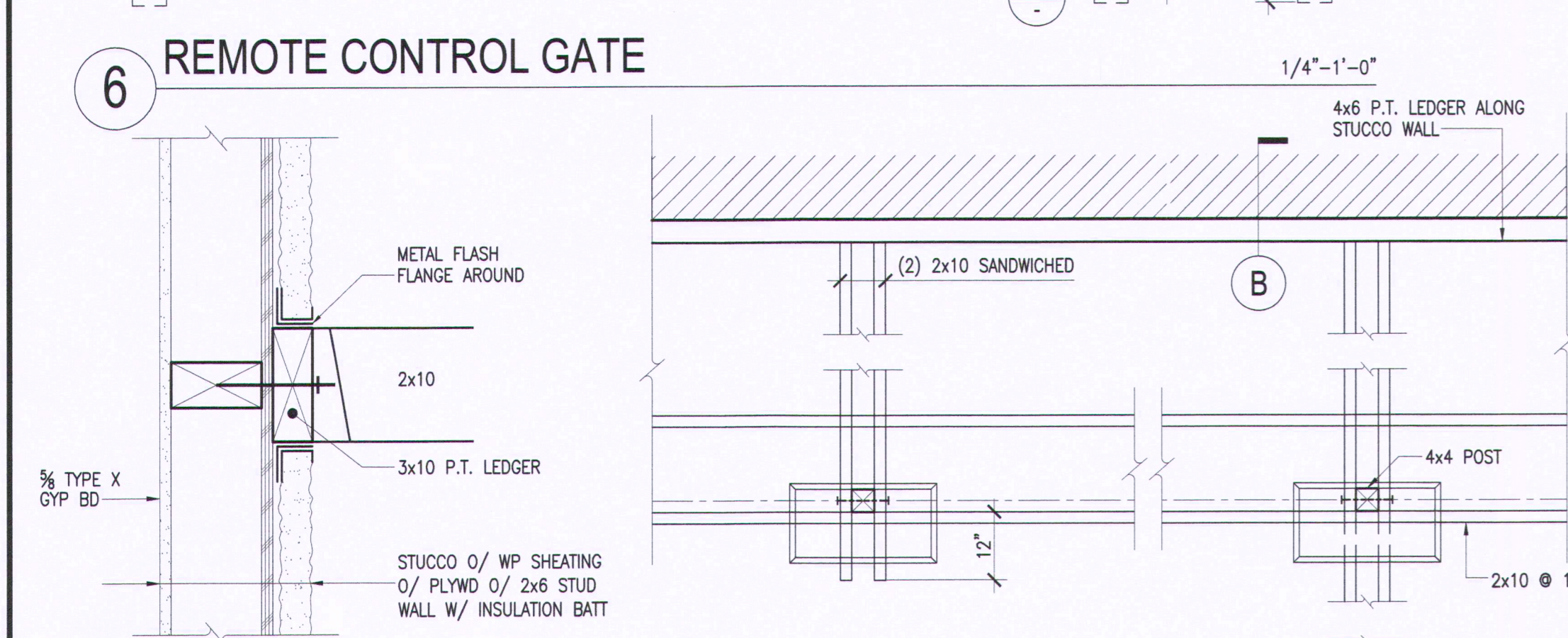
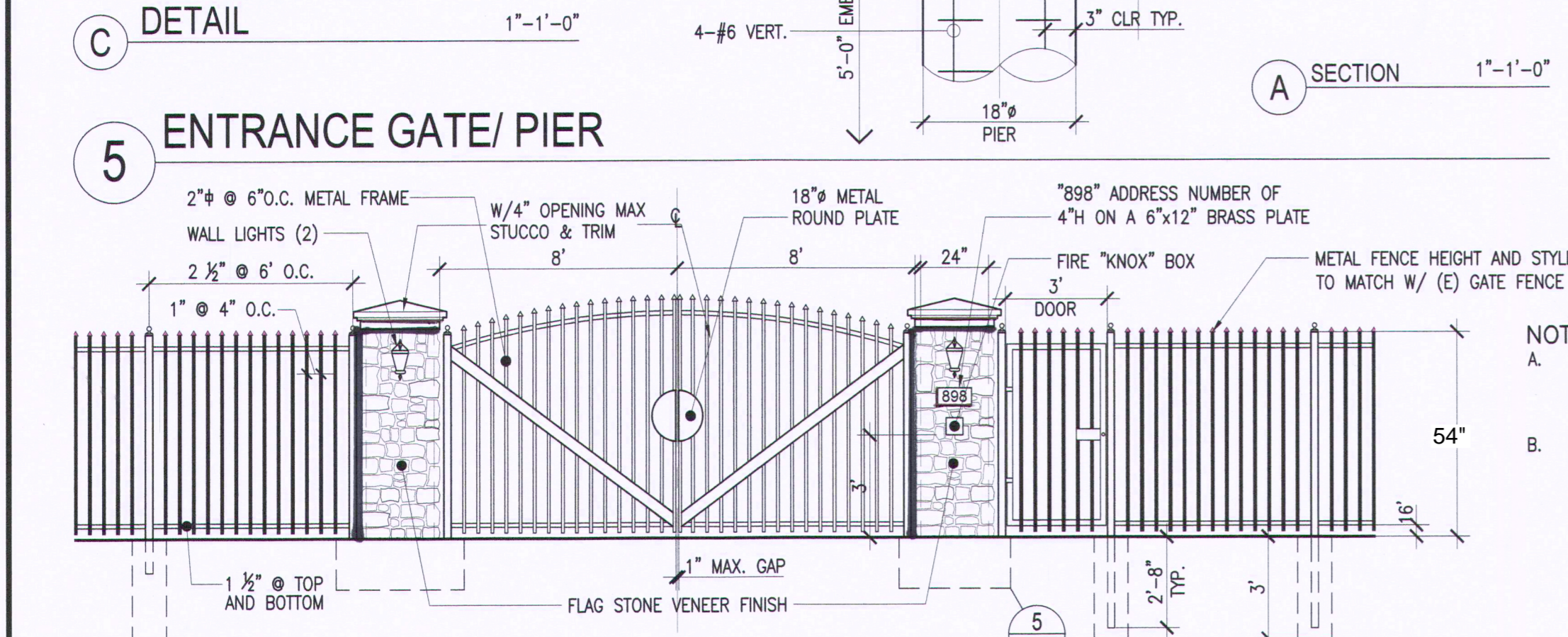
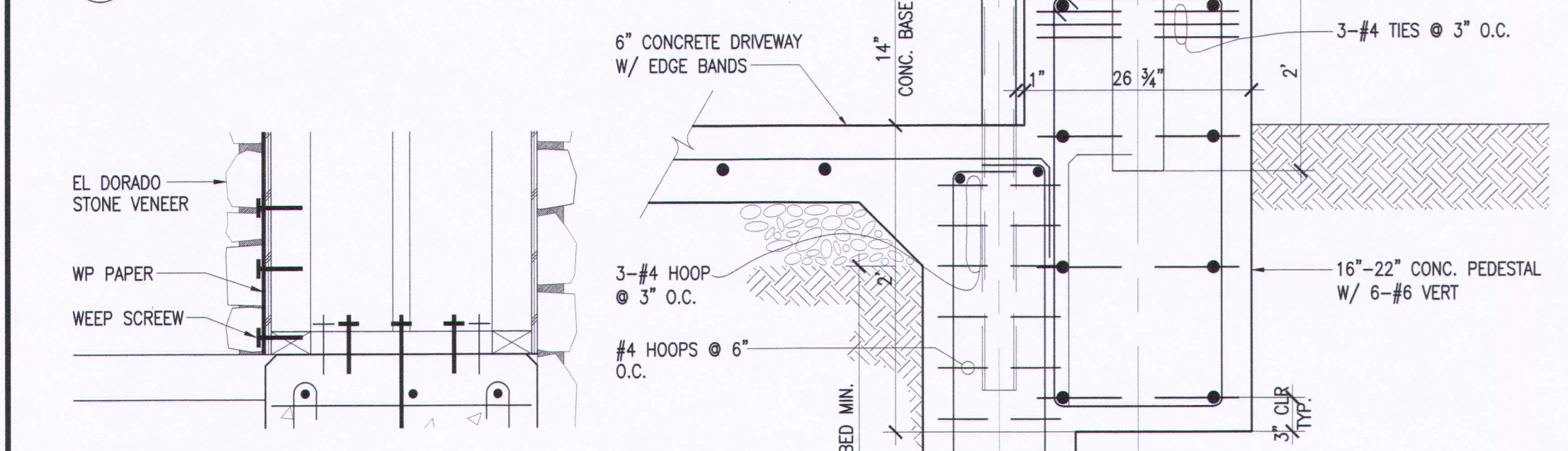
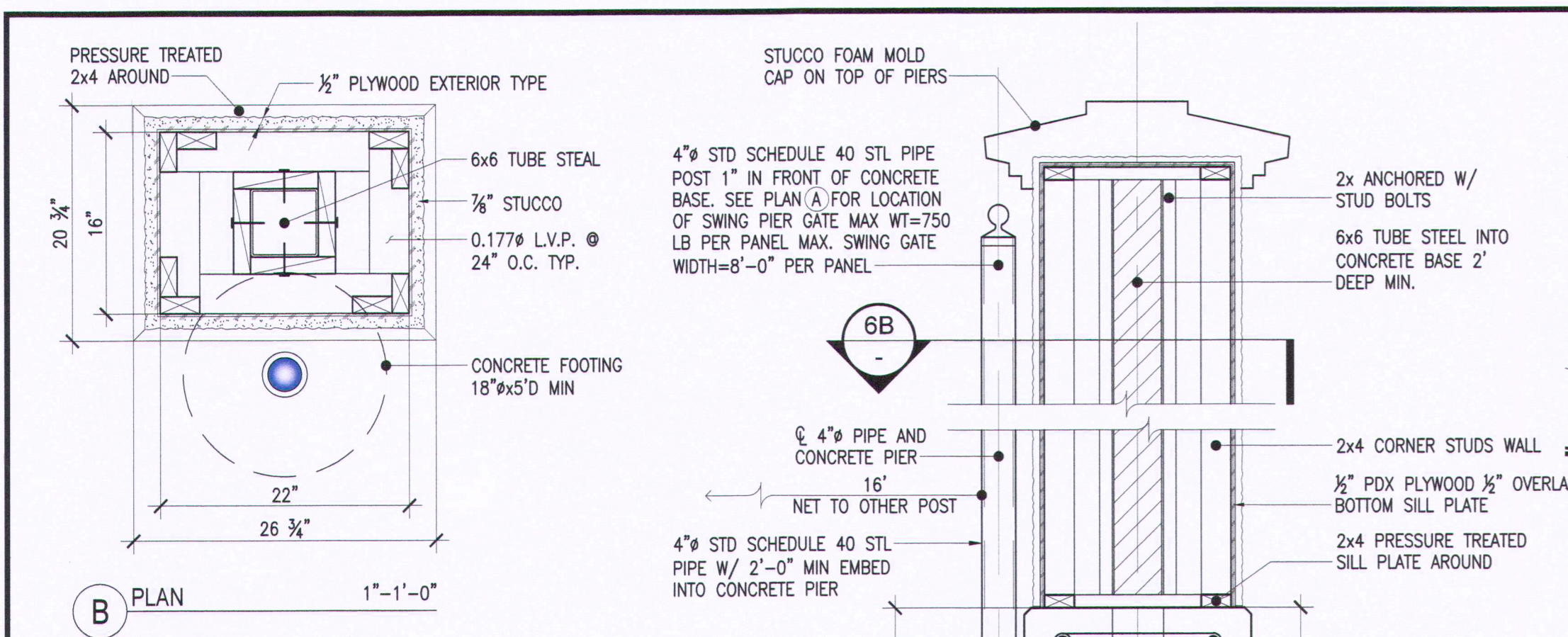
- 2** TRELLIS 1/4"=1'-0"
- LEGEND**
- FR - FIRE MAIN RISER
 - GW - GAS MAIN
 - EM - ELECTRICAL MAIN
 - WP - WATER PROOF DUPLEX
 - WB - WATER BIB
 - TL - TRELLIS LIGHT
 - SL - SHIELD WALL MOUNT LIGHT
 - LI - LANDSCAPE IRRIGATION VALVE W/BACK FLOW PREVENTER
 - WM - WATER METER
 - W - MAIN WATER LINE
 - F - FIRE SPRINKLER RISER
 - SGSL - SHIELD GROUND SPOT LIGHT
 - SVL - SHIELD VINTAGE LIGHT POLE
 - CB - CB CATCH BASIN
 - EV - ELECTRICAL VEHICLE CHARGER AT GARAGE

- [Symbol] BUILDING FOOT PRINT
- [Symbol] PERMEABLE PAVEMENT 0/ COMPACT GEO DRAIN SUB BASE
- [Symbol] LANDSCAPE AREA W/ WEED FABRIC AND 3" SHREDDED MULCH
- [Symbol] COMPACT GRADE W/ PERMEABLE TILE PAVERS 0/ 2" SAND 0/ CRUSH STONES
- [Symbol] RE-BAR CONCRETE PAD/ FINISH

1 GROUND FLOOR PLAN 1/8"=1'

SEE AT & L1 FOR SITE IMPROVEMENT AND LANDSCAPE

REVISIONS [Empty Revision Table]	
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Sheet Title	
Date	02-05-19
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File	
Sheet	A2



NOTE:
 A. MAIN ENTRANCE GATE SHALL BE LISTED IN ACCORDANCE WITH UL 325. GATE OF AUTOMATIC OPERATION SHALL BE DESIGNED, CONSTRUCTED, INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ASTM F 2200. CA PER FIRE CODE SECTION 102.9
 B. ELECTRONIC GATES SHALL BE PROVIDED WITH BACKUP POWER FAILURE FOR DEFAULT TO THE OPEN POSITION.

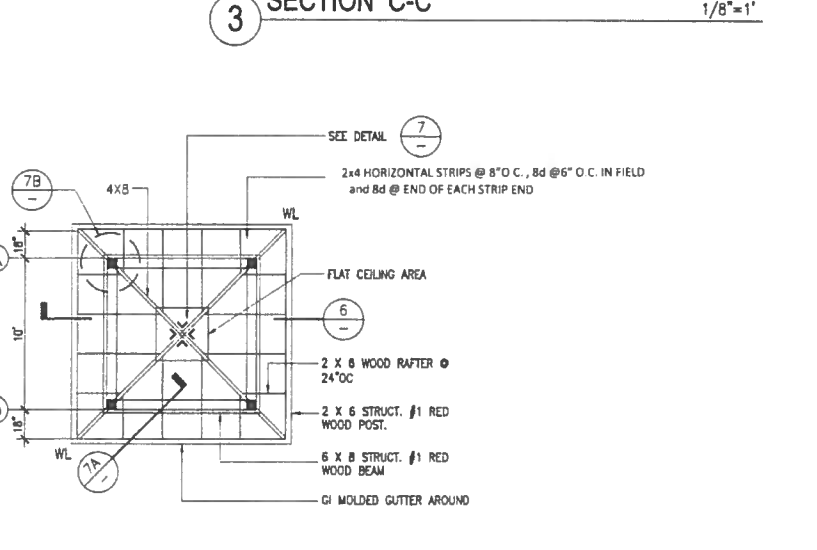
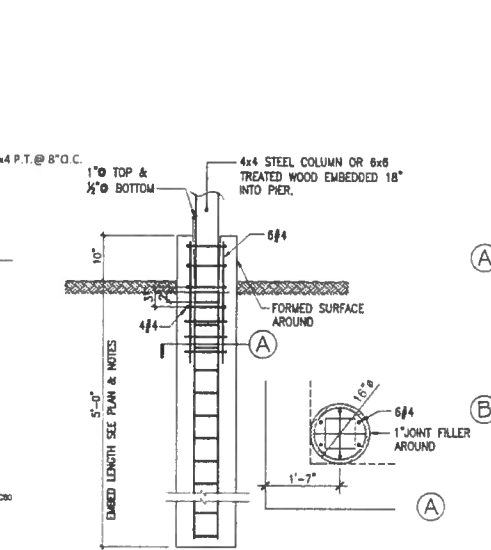
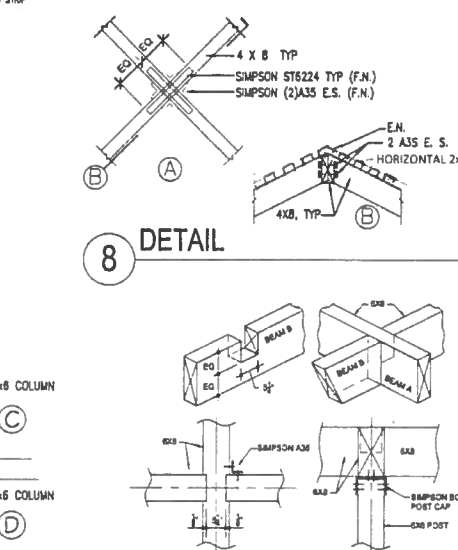
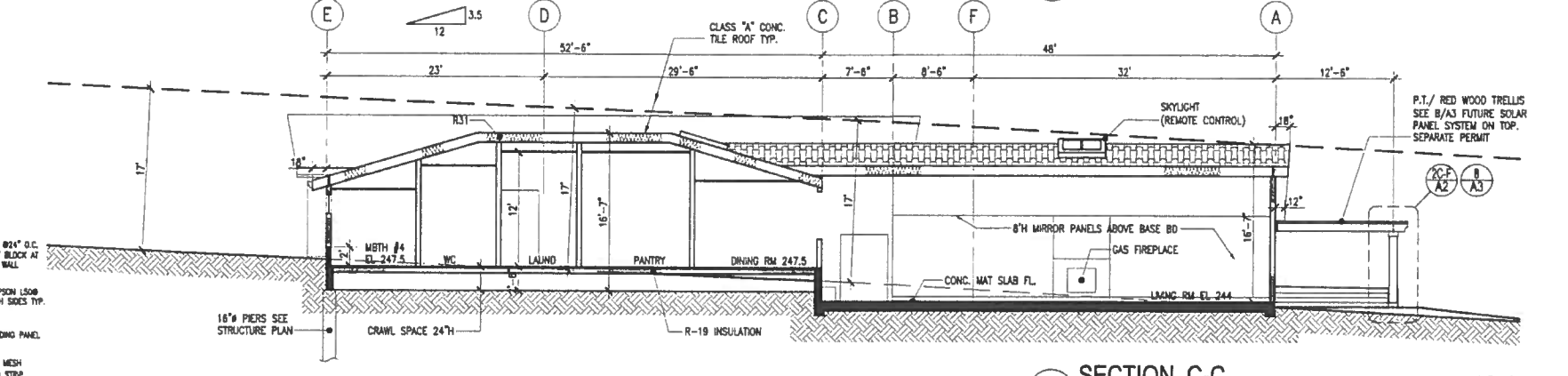
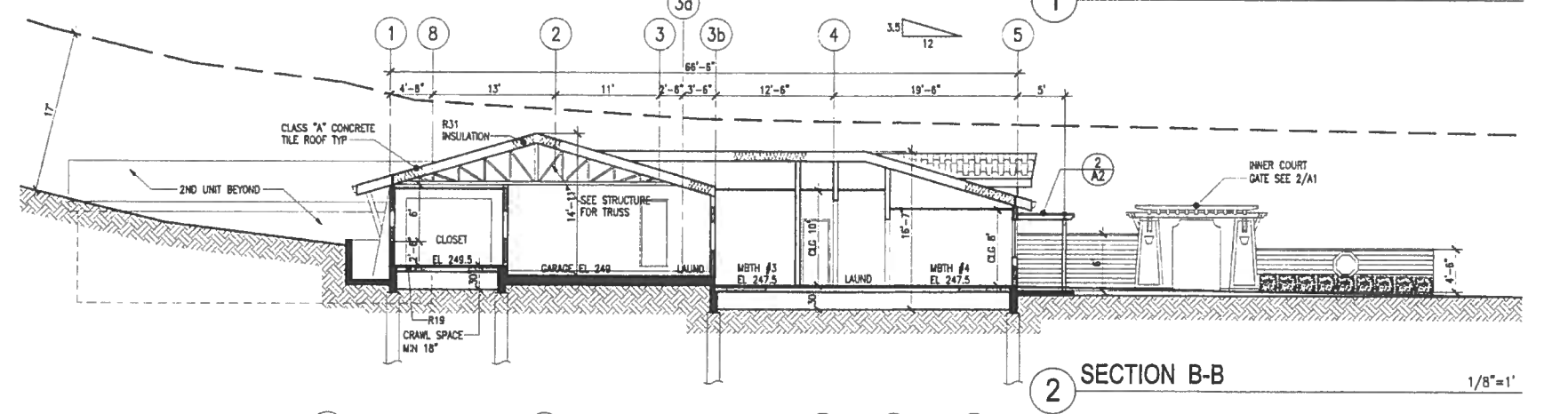
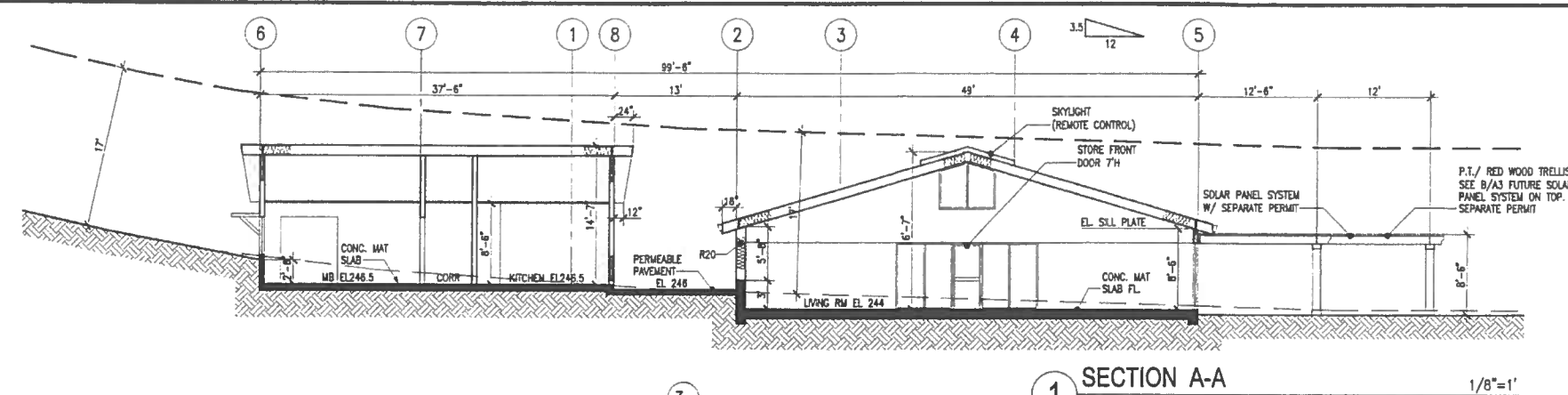
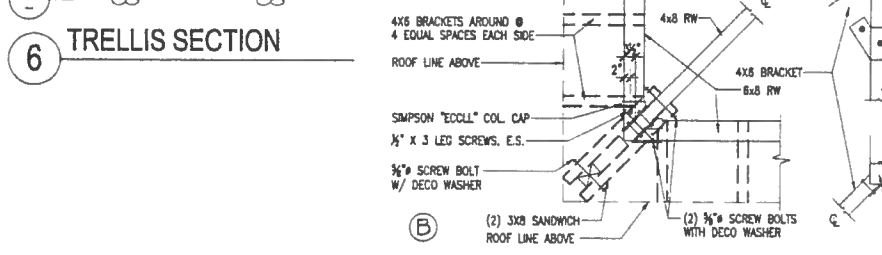
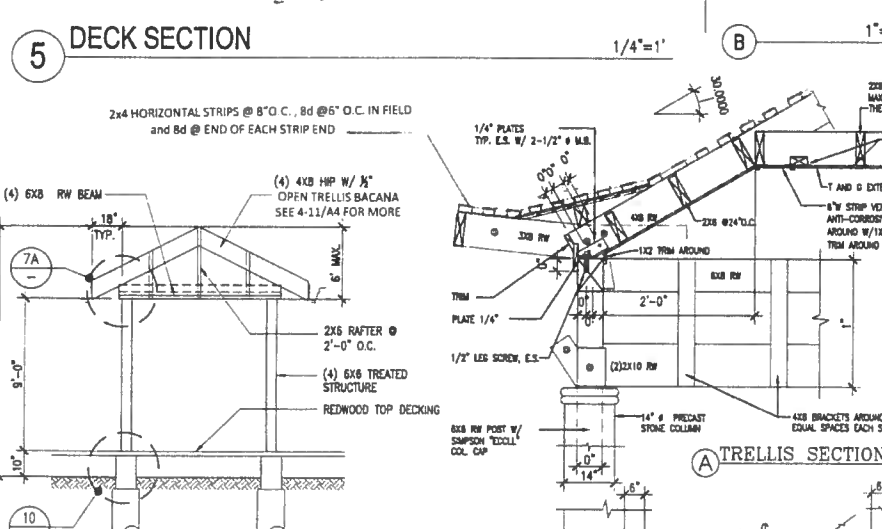
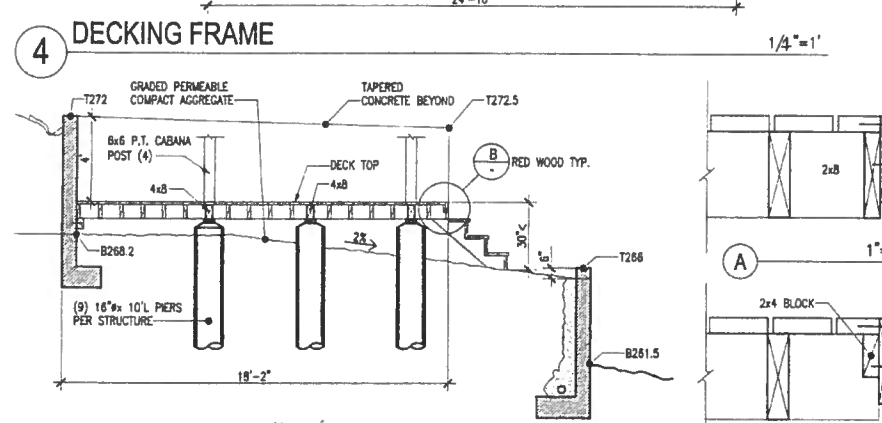
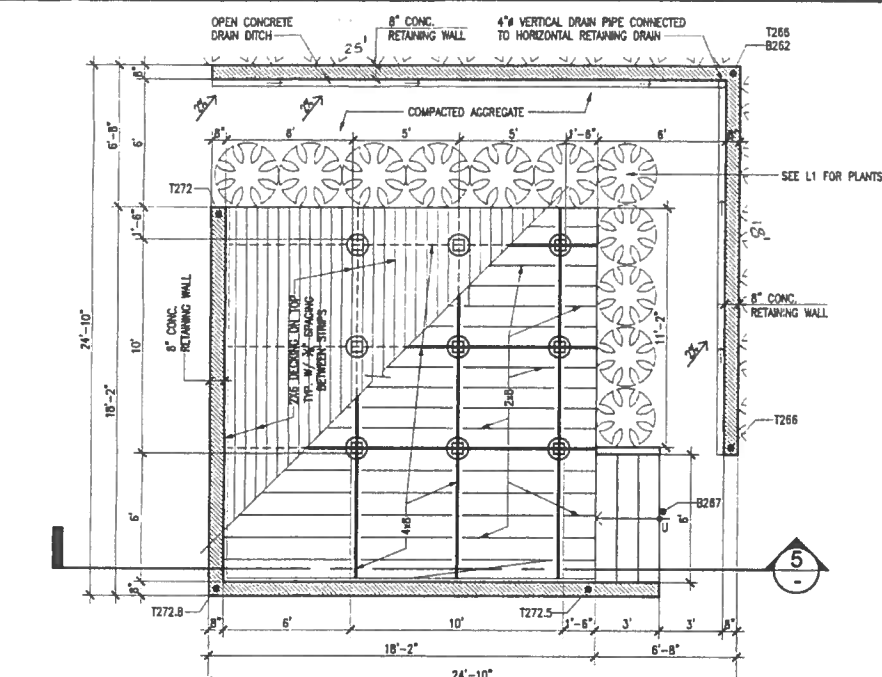
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 Sheet **A3**



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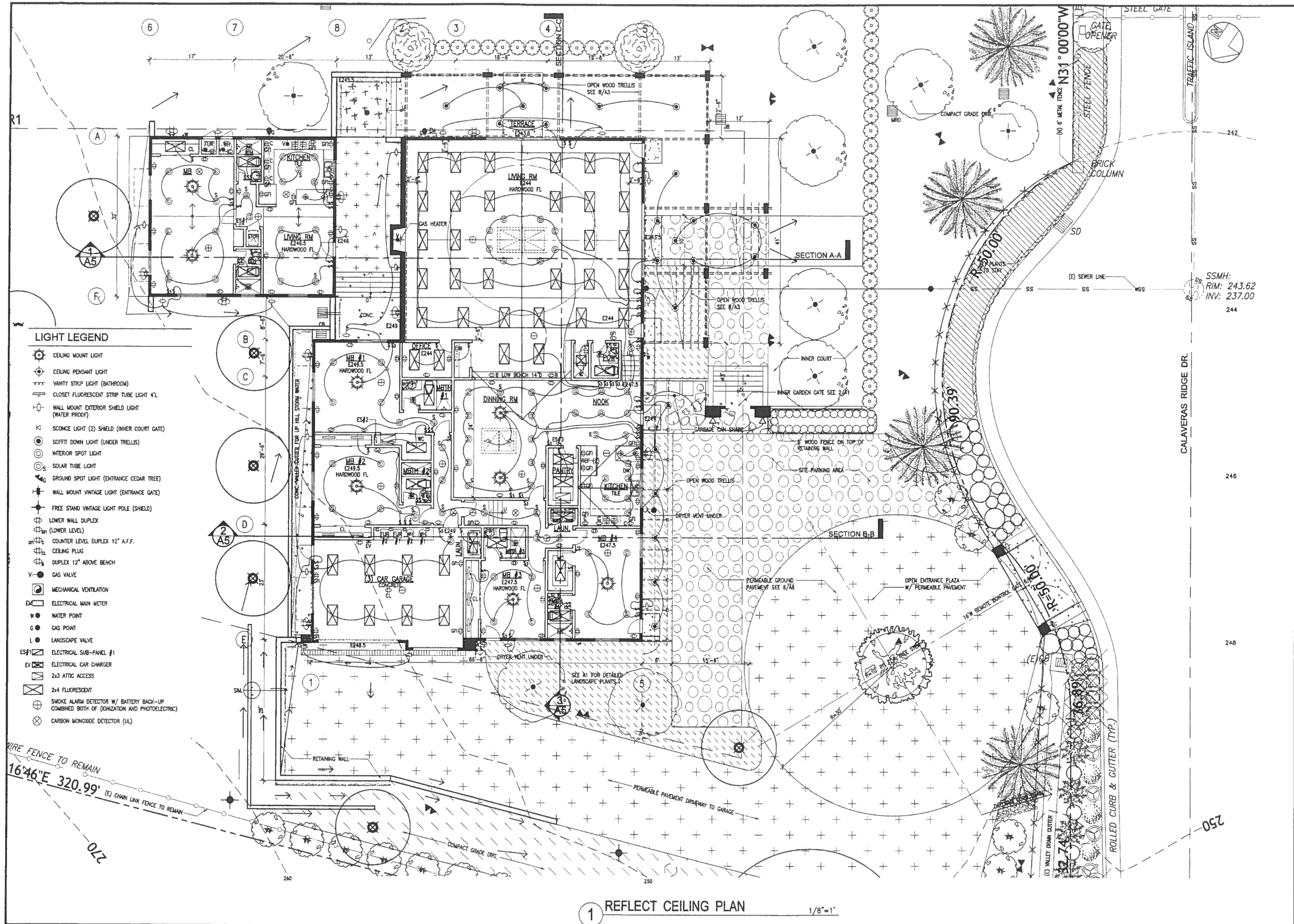
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Sheet **A4**



- ### LIGHT LEGEND
- ⊙ CEILING MOUNT LIGHT
 - ⊙ CEILING PENDANT LIGHT
 - VANYTY STRIP LIGHT (BATHROOM)
 - CLOSET FLUORESCENT STRIP TUBE LIGHT 4'L
 - ⊕ WALL MOUNT EXTERIOR SHIELD LIGHT (WATER PROOF)
 - ⊕ SCOURCE LIGHT (2) SHIELD (INNER COURT GATE)
 - ⊙ SOFFIT DOWN LIGHT (UNDER TRELLIS)
 - ⊙ INTERIOR SPOT LIGHT
 - ⊙ SOLAR TUBE LIGHT
 - ⊙ GROUND SPOT LIGHT (ENTRANCE CEDAR TREE)
 - ⊕ WALL MOUNT VINTAGE LIGHT (ENTRANCE GATE)
 - ⊕ FREE STAND VINTAGE LIGHT POLE (SHIELD)
 - ⊕ LOWER WALL DUPLEX (LOWER LEVEL)
 - ⊕ COUNTER LEVEL DUPLEX 12" A.F.F.
 - ⊕ CEILING PLUG
 - ⊕ DUPLEX 12" ABOVE BENCH
 - ⊕ GAS VALVE
 - ⊕ MECHANICAL VENTILATION
 - EM ELECTRICAL MAIN METER
 - W WATER POINT
 - G GAS POINT
 - L LANDSCAPE VALVE
 - ES#1 ELECTRICAL SUB-PANEL #1
 - EV ELECTRICAL CAR CHARGER
 - ⊕ 2x3 ATTIC ACCESS
 - ⊕ 2x4 FLUORESCENT
 - ⊕ SMOKE ALARM DETECTOR W/ BATTERY BACK-UP COMBHED BOTH OF (IONIZATION AND PHOTOELECTRIC)
 - ⊕ CARBON MONOXIDE DETECTOR (UL)

SSMH:
RIM: 243.62
INV: 237.00
244

CALAVERAS RIDGE DR.

246

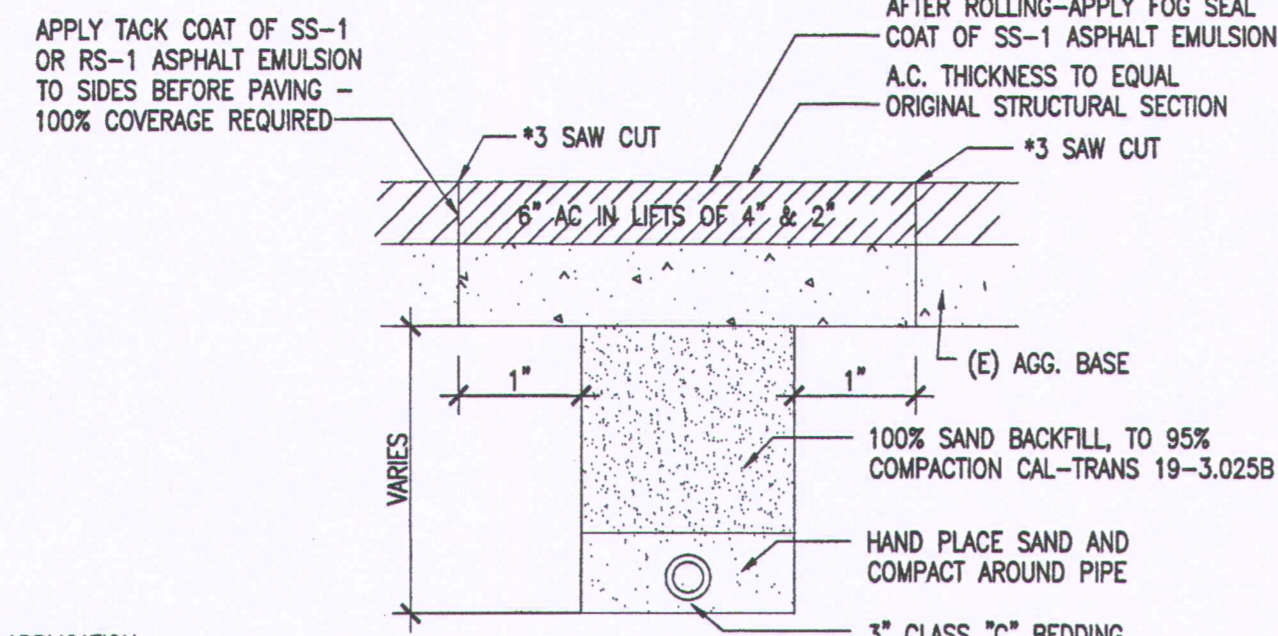
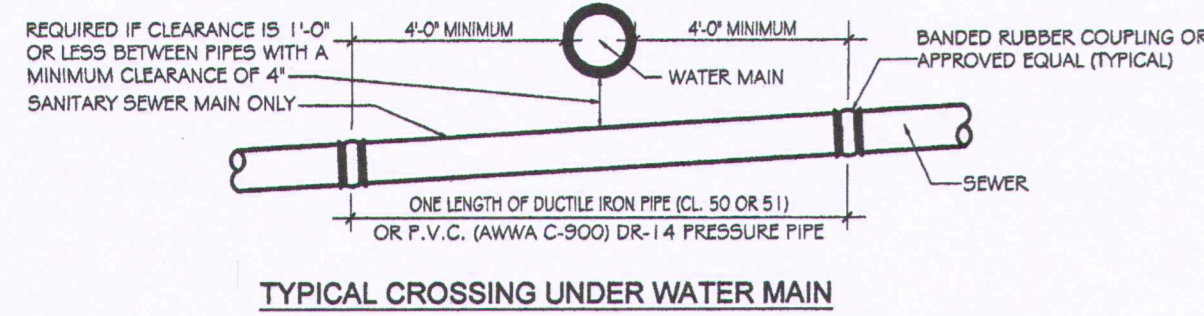
248

WIRE FENCE TO REMAIN
16'46"E 320.99'
(E) CHAIN LINK FENCE TO REMAIN

1 REFLECT CEILING PLAN 1/8"=1'

REVISIONS	
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<small>THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE BUILDING AS SHOWN ON THESE PLANS. THE ARCHITECT DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED ON THESE PLANS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE PLANS.</small>	
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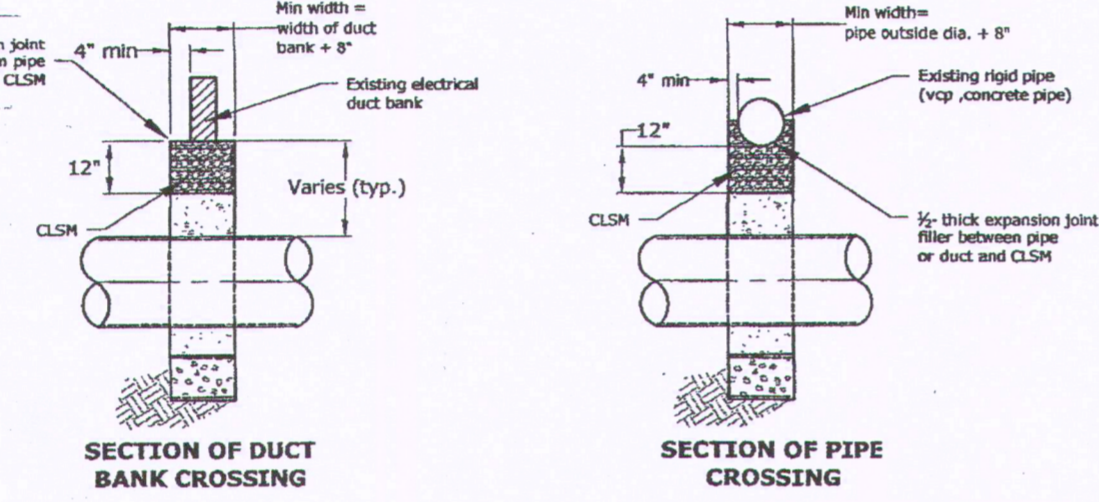
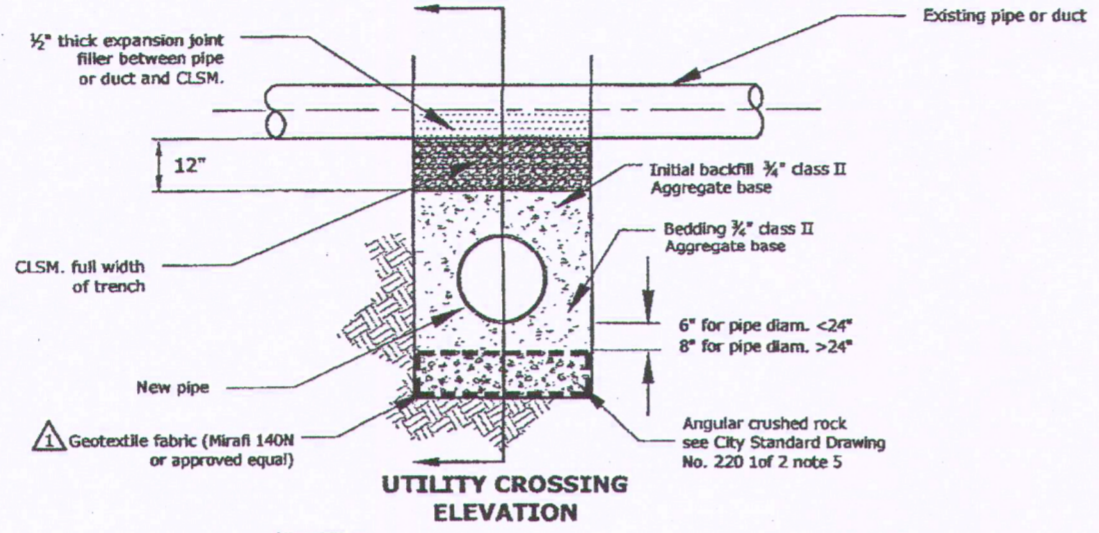
8 SANITARY SEWER WATER MAIN CROSSINGS



APPLICATION: NORMAL SOIL CONDITIONS AND TYPICAL PAVEMENT SECTION. NOT FOR STEEP GRADES OR ADVERSE CONDITIONS.

FOR TRENCH DEPTHS GREATER THAN 8'-0"	
PIPE SIZE	6" 8" 10" 12" 18" 21" 24"
*MAX TRENCH WIDTH	26" 28" 30" 32" 39" 42" 45"

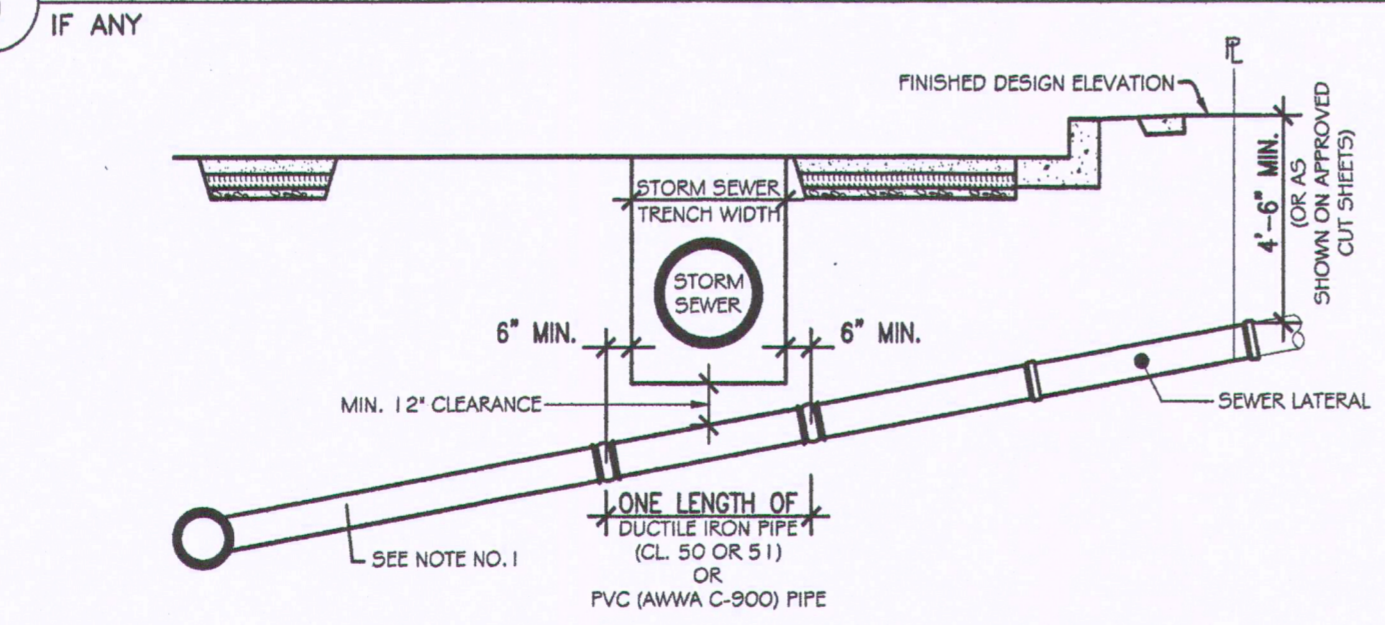
5 TRENCH DETAIL



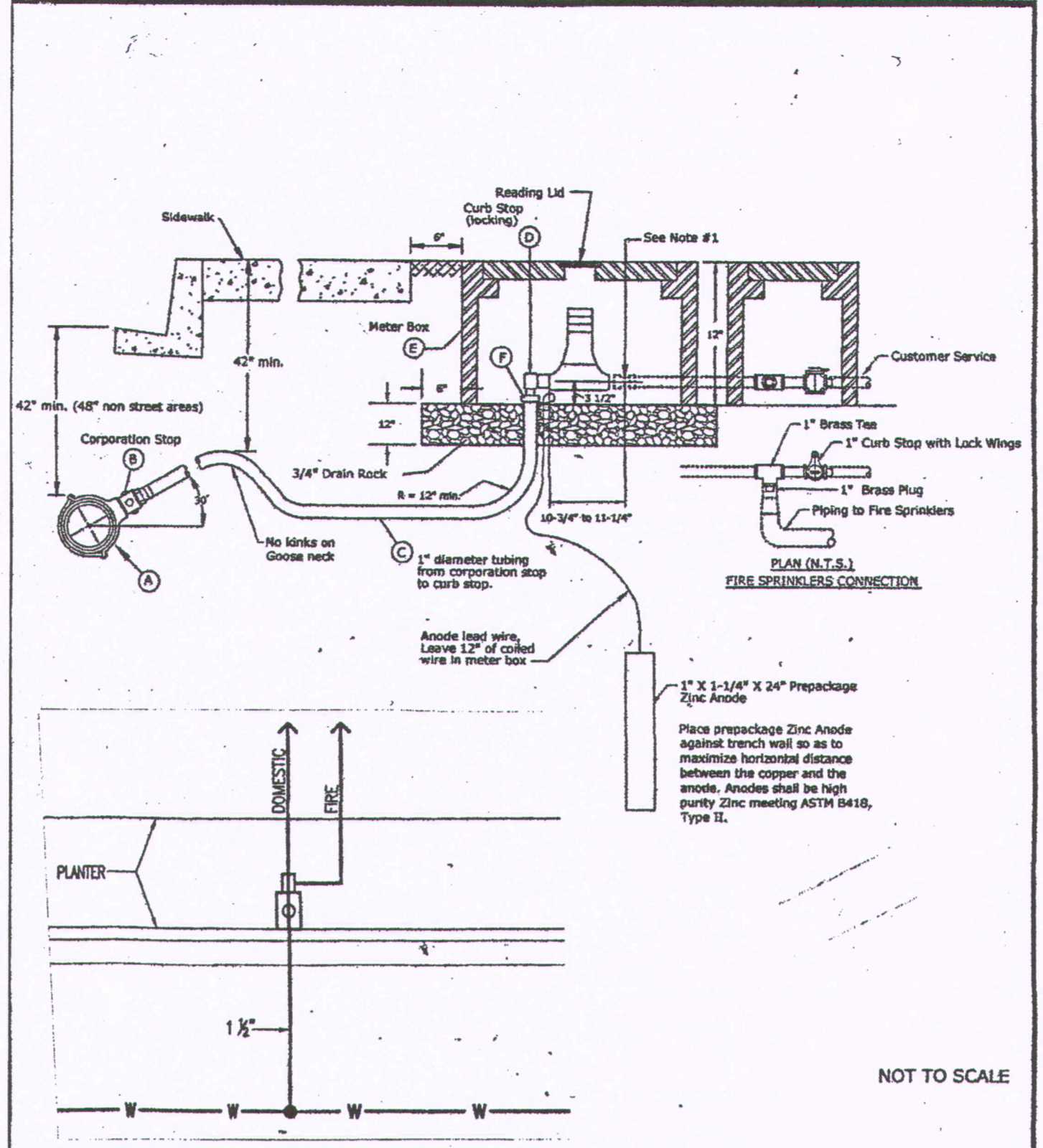
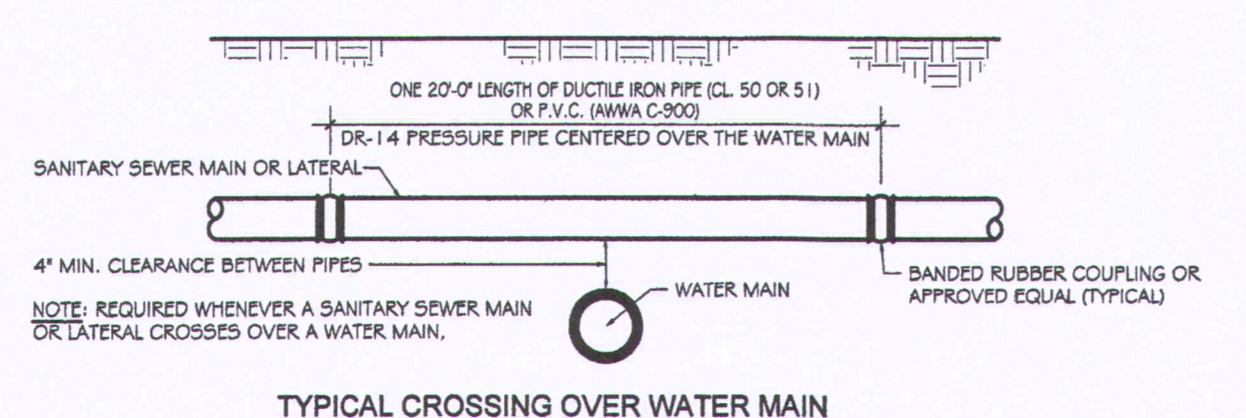
- NOTES:
- The contractor shall submit shop drawings on preformed expansion joint filler, filler shall comply with ASTM D994 or ASTM D1751.
 - Backfill to be brought up uniformly on both sides of utility support.
 - Underground utility supports are to be provided where excavation and backfill is performed beneath a rigid pipe (VCP, concrete, electrical duct bank, etc.). Controlled Low-Strength Material (CLSM) shall be used to fill in the approximate one foot vertical space underneath the rigid pipe where it is impractical to compact Aggregate Base backfill.
 - Existing pipe or duct will be firmly supported during installation of new pipe and utility support.
 - Form the sides of utility support which cross trench.
 - CLSM shall consist of a mixture of Portland cement, water, fine aggregate and chemical admixtures. Fly ash shall not be permitted in mixes intended for trench backfill. CLSM shall be proportioned to produce a 28 day compressive strength of 50 to 150 pounds per square inch. An accelerating admixture shall be used to produce a fast setting flowable mixture.

CITY OF MILPITAS, ENGINEERING DIVISION		STANDARD DRAWING
REVISION	DATE	NO. 220
1	2016	DATE : 11/09/16
APPROVED BY: <i>[Signature]</i> Kevin Chiang		SHEET 2 OF 2

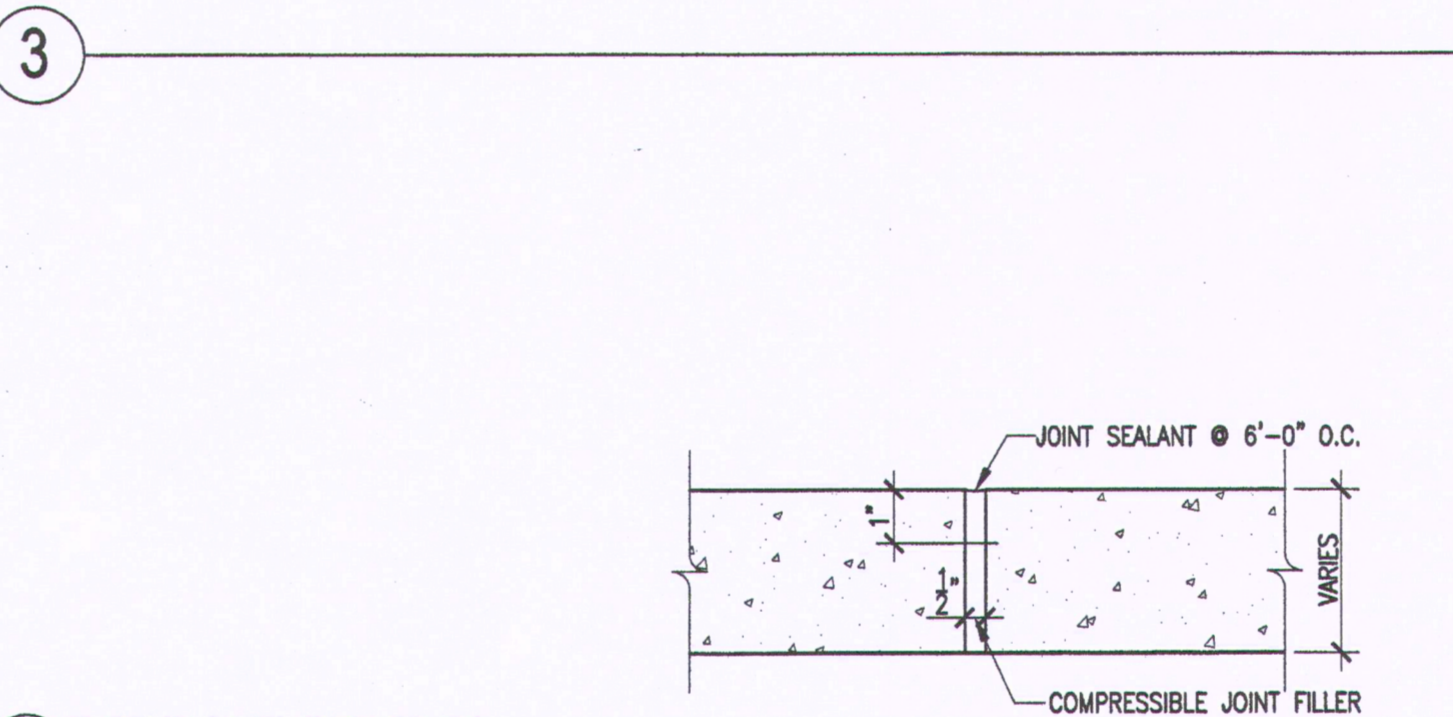
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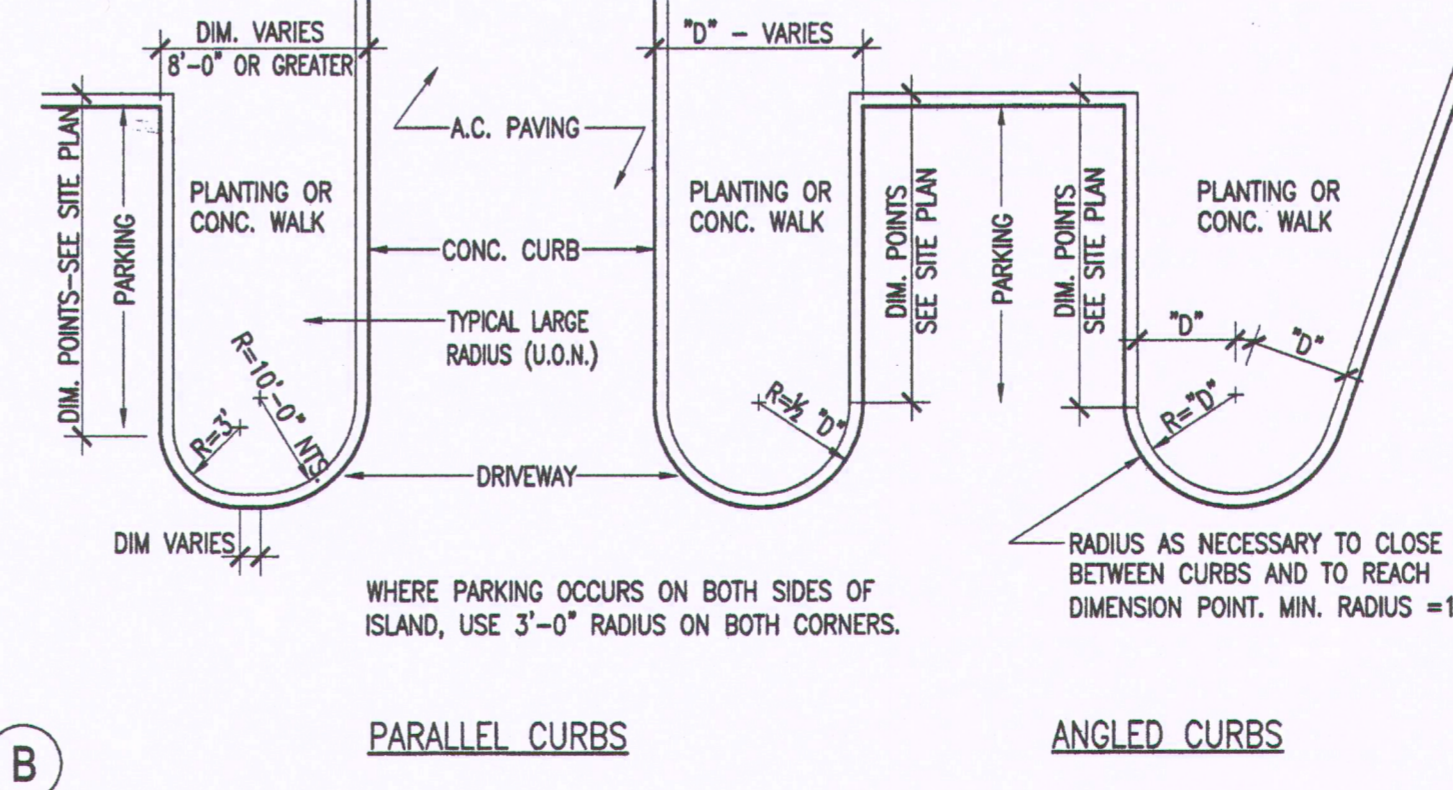
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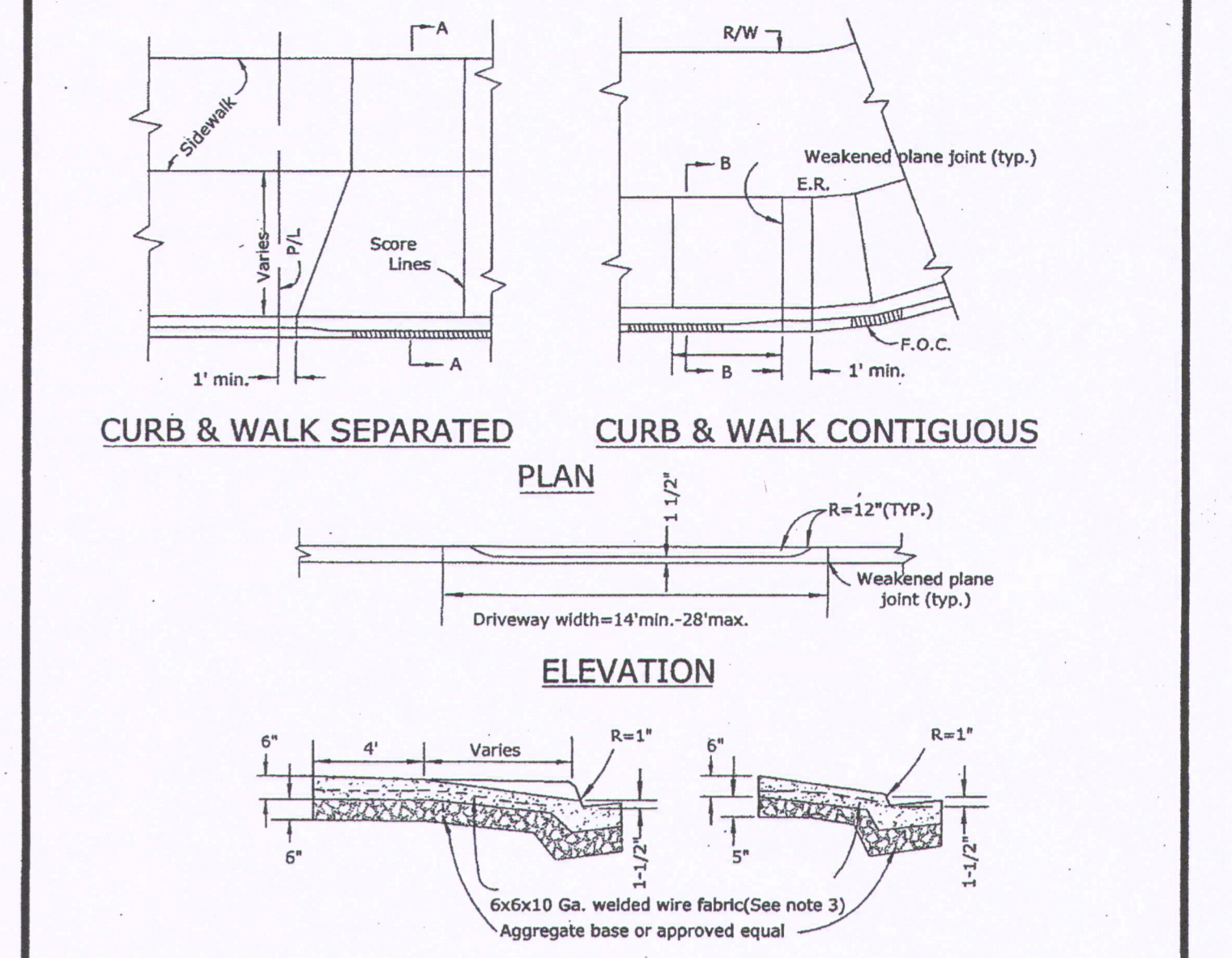
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REVISION	DATE	NO. 723
1	1997	DATE : 6/15/10
2	2001	
3	2010	
APPROVED BY: <i>[Signature]</i> Kevin Chiang		SHEET 1 OF 2



A EXPANSION JOINT FOR CURB APPLY TO CURB DRIVEWAY AND RAMP



B PARKING CURB GUIDE LINE



- NOTES:
- Score lines shall be 1/4 inch deep and 48 inches apart in sidewalk areas.
 - Use Portland Cement Concrete containing not less than 564 lbs. of Type I or II Portland Cement per cubic yard with a compressive strength of not less than 3000 psi. at 28 days, with a medium broom finish min.
 - Welded wire fabric shall be used when driveway serves more than one residential units.
 - Driveway locations shall be approved by the City Engineer.
 - The minimum spacing between driveways serving the same parcel shall be 18 feet.
 - Limits of driveway width shall be as shown unless otherwise approved by the City Engineer.
 - Access to developed site shall be maintained.

CITY OF MILPITAS, ENGINEERING DIVISION		STANDARD DRAWING
REVISION	DATE	NO. 430
1	1975	DATE : 6/15/10
2	2001	
3	2010	
APPROVED BY: <i>[Signature]</i> Kevin Chiang		SHEET 1 OF 1

- MATERIALS:
- Service Saddle shall be Mueller BR2B or approved equal.
 - Curb stop, coupling, three part union, meter outlet fitting and meter box shall be per approved equal list. Corporation stop shall be Insulated Mueller N-35008 or approved equal.
 - Service pipe shall conform to A.S.T.M. Class K, soft annealed, seamless copper tubing.
 - Angle meter stop, Mueller 14276 or approved equal.
 - Meter boxes shall be Christy B16 BOX and B16G lid, or approved equal with the word "Water" imprinted on the lid and Christy B9 Meter box with B9D lid (or approved equal) for the sprinkler connection.
 - Brass grounding clamp, coated with 3M electrical compound, with brass bolts and brass set screw.
- NOTES:
- Customer service end shall be 1" Mueller H-10871 insulated coupling or approved equal.
 - Water meter with Automatic Remote Read Transmitter Register shall be furnished and installed by the City at the expense of the customer.
 - Meter box shall be set as detailed at the time the service is installed unless otherwise specified by the City Engineer.
 - Where a separated sidewalk occurs, meter box shall be installed 6" from back of curb.
 - Where more than one domestic water meter is required; each meter shall be identified with permanent durable markings to indicate which address, building, tenant space that each meter serves (i.e. brass tag stamped with address).
 - Meter box side openings shall be grouted.
 - Where meter box is located in driveways, box shall be furnished with steel traffic cover. (Christy B16-61G or approved equal)
 - This detail is applicable to laterals serving 1 or 2 dwelling units only on same property.

CITY OF MILPITAS, ENGINEERING DIVISION		STANDARD DRAWING
REVISION	DATE	NO. 723
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2	2001	
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 E MAIL: kevinchiang@gmail.com
 WWW: www.kevinchiang.com

PENG RESIDENCE
 898 CALAVERAS RIDGE DR
 MILPITAS, CA 95035

Sheet Title

Date 02-05-19

Scale AS SHOWN

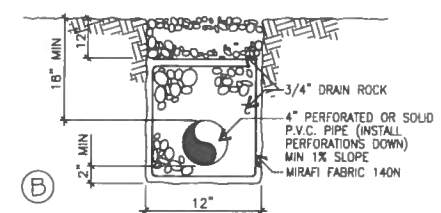
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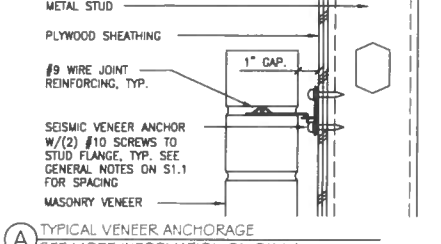
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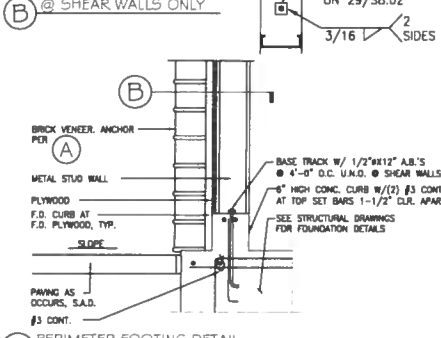
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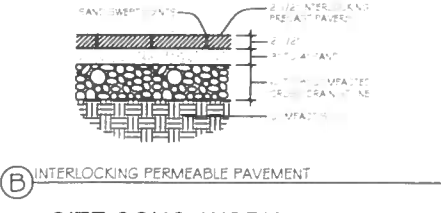
12 SWALE & DRAIN DETAILS
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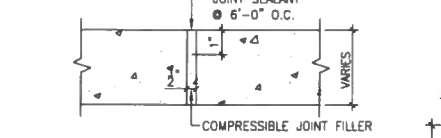
13 DETAILS
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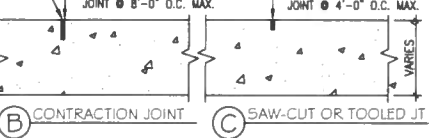
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N.T.S.



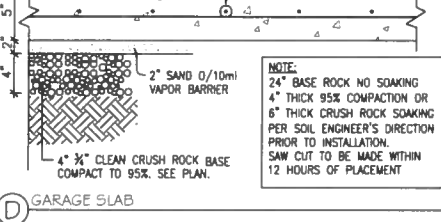
9 SITE CONC. WORK
EVERY 8'-0" O.C. FOR EXPANSION JOINT



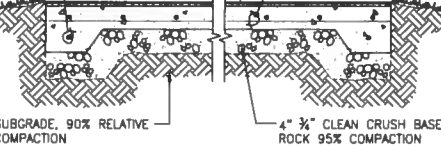
8 RETAINING WALL
OPTIONS FOR CLIENT'S CHOICE



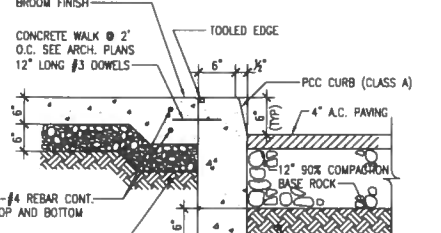
7 ENTRANCE STEPS



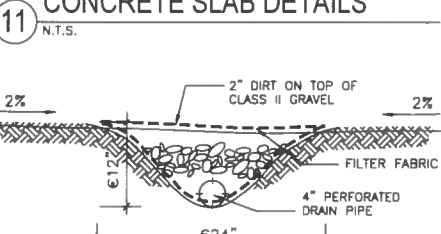
6 DROP INLET DETAILS



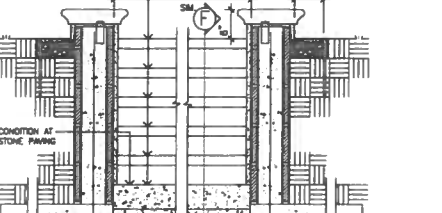
5 CLEAN OUT TO GRADE



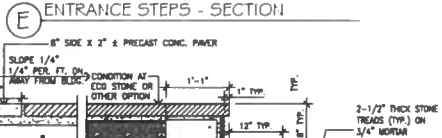
4 DRAIN DETAILS



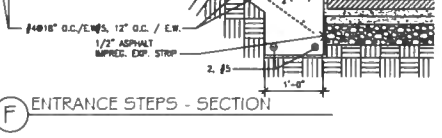
3 DRAIN @ PLANTER



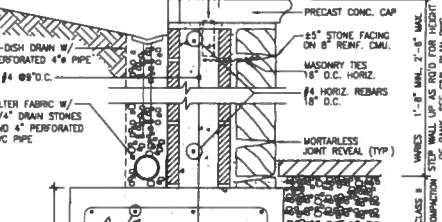
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IF ANY



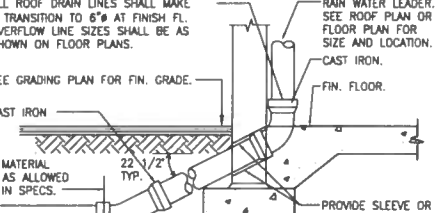
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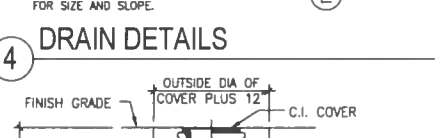
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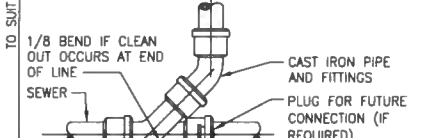
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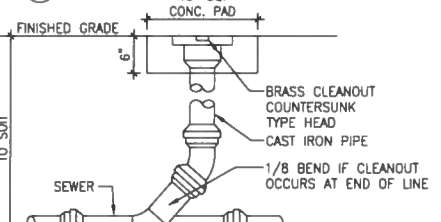
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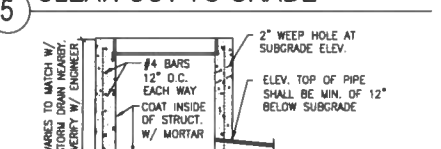
9 GARAGE SLAB



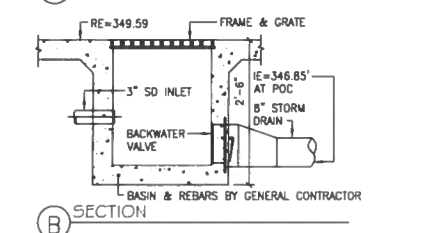
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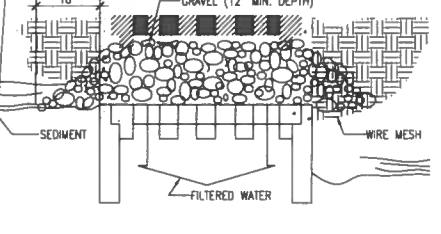
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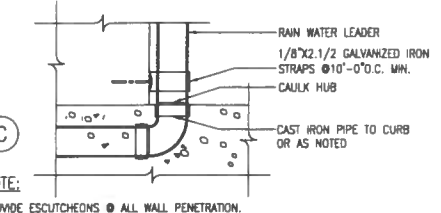
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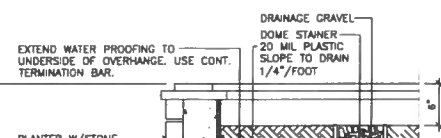
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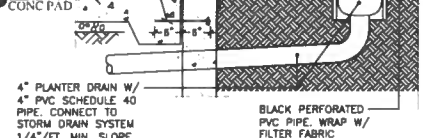
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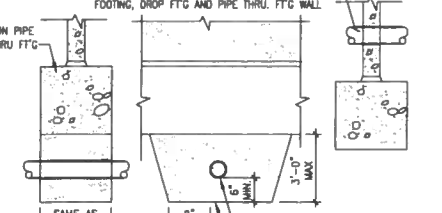
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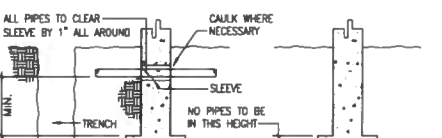
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IF ANY



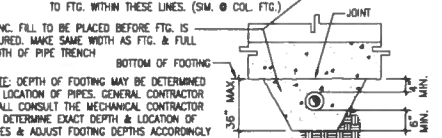
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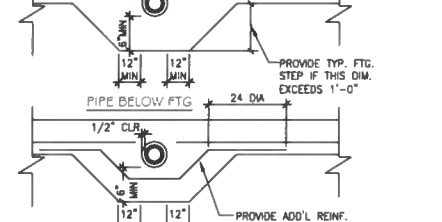
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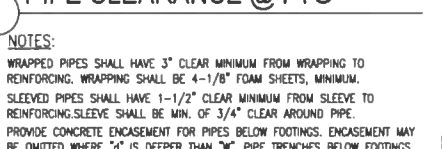
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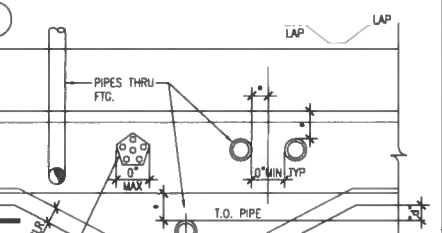
11 CONCRETE SLAB DETAILS



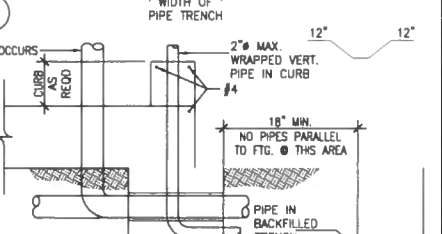
10 CONCRETE SIDE WALK @ CURB



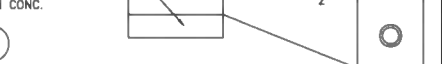
9 GARAGE SLAB



8 RETAINING WALL



7 ENTRANCE STEPS

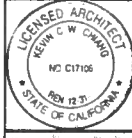


6 DROP INLET DETAILS

REVISIONS

NO.	DESCRIPTION

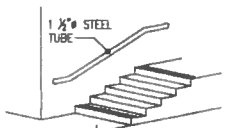
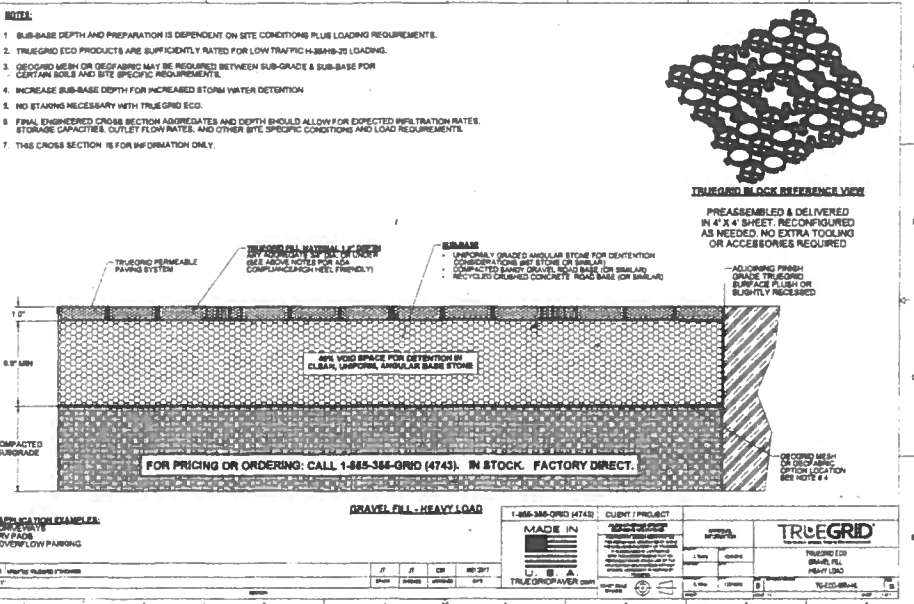
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A7



INTERIOR STAIRS
UPPER APPROACH AND LOWER TREADS MUST BE MARKED

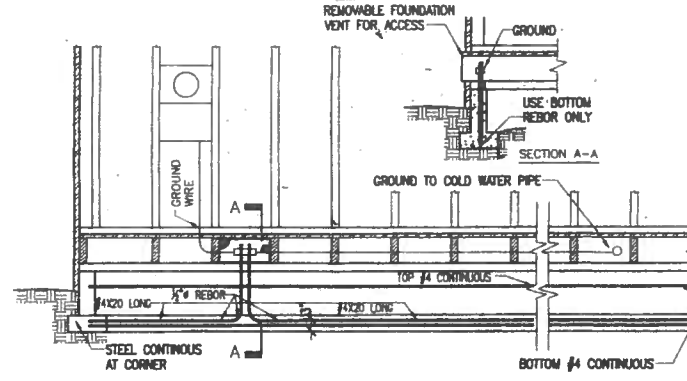
3 EXTERIOR STEPS AND RAILING

JOINT TRENCH MINIMUM COVER AND CLEARANCES

UTILITY	G	T	C	S	P	F	MINIMUM COVER
G (GAS)*	12"	12"	6"	12"	12"	24"	30" IN STREET
T (TELEPHONE)	12"	1"	12"	12"	1"	24"	30" IN STREET
C (CABLE T.V.)	12"	1"	12"	12"	1"	24"	30" IN STREET
S (ELECT. SECONDARY)	6"	12"	12"	3"	12"	24"	30" IN STREET
P (ELECT. PRIMARY)	12"	12"	12"	3"	12"	30"	36" IN STREET
F (FIBER OPTIC)	12"	1"	1"	12"	12"	24"	30" IN STREET

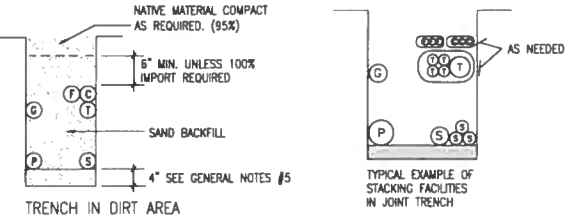
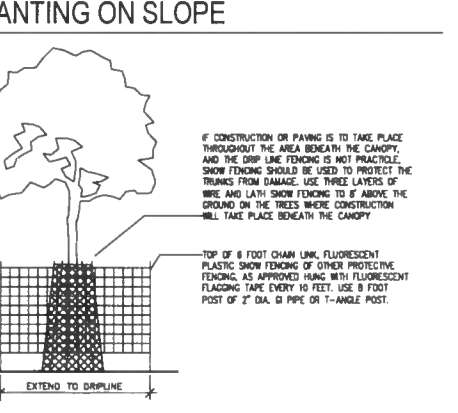
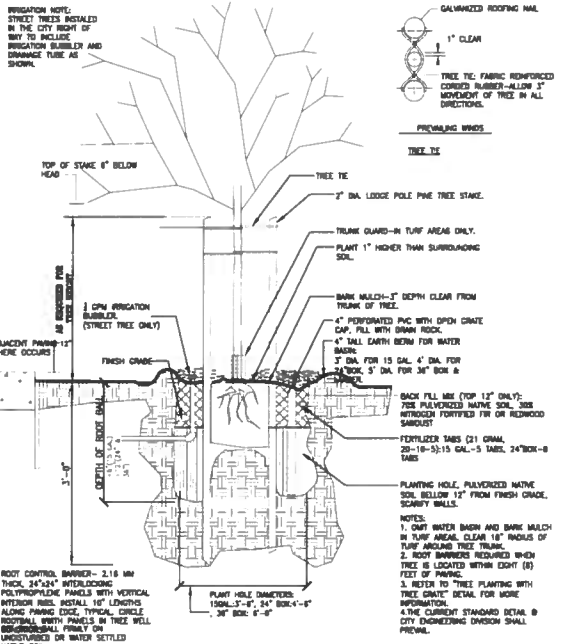
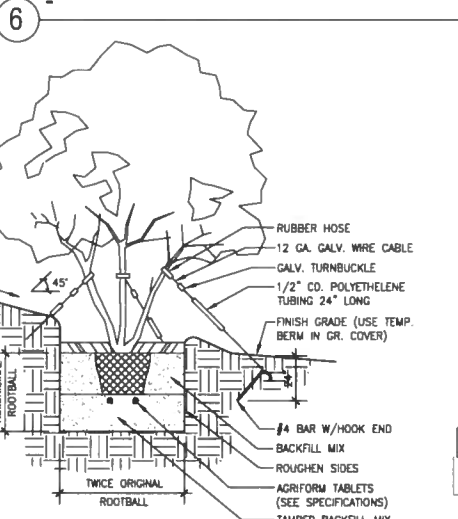


WARNING STRIPS MUST BE CLEARLY CONTRASTING COLOR FROM ADJOINING SURFACES. THE STRIP MUST BE MADE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. (PAINTED STRIPS ARE ACCEPTABLE)



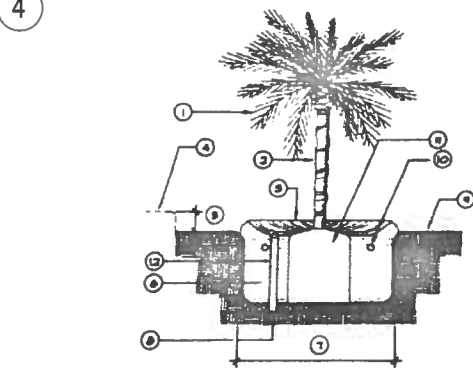
GROUNDING OF SERVICE SYSTEMS SHALL BE BY MEANS OF AN APPROVED CONCRETE ENCASED GROUNDING ELECTRODE ("UFER GROUND") INSTALLED WITHIN THE BUILDING FOUNDATION BY THE PLACEMENT OF TWO (2) STEEL REINFORCING BARS OF ONE-HALF (1/2) INCH DIAMETER AND TWENTY (20) FOOT LENGTH. THE BARS SHALL BE PLACED WITHIN FOUNDATION IN OPPOSING DIRECTIONS FROM A POINT ADJACENT TO THE SERVICE EQUIPMENT LOCATION, UPON APPROVED PERMANENT SUPPORTS PLACED THREE (3) INCHES ABOVE THE BOTTOM OF FOUNDATION TRENCH AND HORIZONTALLY CENTERED IN FOOTING; A TWELVE (12) INCH TERMINAL OF EACH ROD SHALL BE EXPOSED AT SERVICE EQUIPMENT LOCATION FROM A POINT IN THE FOUNDATION NO LESS THAN SIX (6) INCHES ABOVE FINISH GRADE TO PROVIDE FOR CONNECTION TO THE GROUNDING CONDUCTOR; AND ALL INTERIOR METALLIC WATER PIPING SHALL BE BONDED TO GROUNDING ELECTRODE BY AN UNBROKEN GROUNDING CONDUCTOR SIZED AS REQUIRED FOR SERVICE GROUND. ALSO BOND GAS PIPING LOCATION FOR GAS PIPE BONDING IS OPTIONAL.

NOTE: COMMERCIAL AND INDUSTRIAL INSTALLATIONS MAY REQUIRE ALTERATIONS OF THIS FND. PLAN CONSULT INSPECTION DIVISION FOR ANY UNUSUAL CONDITIONS.



NOTES:

- TRENCH COVER & CLEARANCES SHOWN ARE MINIMUMS ONLY AND MAY REQUIRE ALTERATIONS TO SUIT FIELD CONDITIONS.
- IT IS RECOMMENDED THAT ALL FACILITIES ARE TO BE A MINIMUM OF 12" BELOW SUB-BASE DISTURBANCE.
- * 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, C.A.T.V. & FIBER OPTIC).
- ** WHERE 6" GAS MAIN IS LOCATED IN THE JOINT TRENCH A 12" MINIMUM SEPARATION FROM GAS MAIN TO ALL UTILITIES WILL BE REQUIRED.
- ** WITH MUTUAL AGREEMENT FROM PARTICIPATING UTILITIES, STREET LIGHT SEPARATION MAY BE REDUCED TO 6" BETWEEN STREET LIGHT AND COMMUNICATION DUCTS (TELEPHONE, C.A.T.V. & FIBER OPTIC).
- TRENCH CONFIGURATIONS SHOWN ARE FOR INSTALLATION WHERE EACH OCCUPANT IS UTILIZING HIS ENTIRE SPACE ALLOCATION. OTHER CONFIGURATIONS OR REDUCED DIMENSIONS MAY BE USED, PROVIDED THAT MINIMUM COVER AND CLEARANCES ARE MAINTAINED.
- THE CONTRACTOR IS TO ADJUST TRENCH DEPTHS AT ALL JOINT TRENCH LATERAL CROSSINGS TO MAINTAIN REQUIRED CLEARANCES BETWEEN ALL PARTICIPATING UTILITIES.
- TRENCH SECTIONS ARE SHOWN SCHEMATICALLY AND INDICATE AREAS OF OCCUPANCY ONLY; THEY DO NOT REFLECT SIZE OR QUANTITY OF FACILITIES TO BE INSTALLED.
- TRENCH FOOTAGES PER SECTION ARE APPROXIMATE. SECTIONS ARE DESIGNED TO ACCOMMODATE ALL REQUIRED FACILITIES AS INDICATED ON EACH TRENCH PARTICIPANT'S CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY TRENCH FOOTAGES FOR ACCURACY PRIOR TO EXCAVATION AND TAKE NECESSARY PRECAUTION CROSSING WATER AND SEWER FACILITIES.
- THE CONTRACTOR SHALL REFER TO THE COMPOSITE, CONDUIT, AND/OR EACH RESPECTIVE UTILITY INSTALLATION PLAN FOR THE NECESSARY CONDUIT CABLE AND/OR PIPE TO BE INSTALLED IN THIS PROJECT.
- TYPE "M2" TRENCH SHALL BE INSTALLED AFTER CURB AND GUTTER INSTALLATION. CONTRACTOR SHALL COORDINATE ADDITIONAL MOVE-INS NECESSARY TO COMPLETE THE SERVICES TO THE DWELLING UNITS WITH THE DEVELOPER, ALL AGENCIES AND THE UTILITY COMPANIES. THE COST OF THESE MOVE-INS SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR TRENCHING.
- THE AVERAGE TRENCH DEPTHS SHOWN ARE BASED ON THE MINIMUM UTILITY COMPANY REQUIREMENTS FOR DEPTH AND SEPARATION. CONTRACTOR SHALL ADJUST TRENCH WIDTH & DEPTH AS REQUIRED TO ADEQUATELY CLEAR EXISTING UNDERGROUND FACILITIES AND MAINTAIN MINIMUM UTILITY CLEARANCES. ALL TRENCHES OVER 60" DEEP MUST COMPLY WITH OSHA REQUIREMENTS. (SEE THE JOINT TRENCH MINIMUM COVER AND CLEARANCE TABLE)
- CONTRACTOR SHALL USE SAND BEDDING AND SHADING AS REQUIRED BY THE UTILITY COMPANIES. ALL TRENCH SECTIONS SHOWN HEREON INCLUDE A 4" THICK BEDDING LAYER.



- ① FRONDS - TIE WITH SINGLE STRAND OF ORGANIC MATERIAL UNTIL AT END OF MAINTENANCE PERIOD.
- ② PALM TRUNK.
- ③ 4" HIGH WATERING BASIN (IF P)
- ④ 1" IN TURF AREAS
- ⑤ BACKFILL MIX - 100% WASH
- ⑥ 2 X WIDTH OF ROOTBALL.
- ⑦ UNDISTURBED NATIVE SOIL.
- ⑧ FINISH GRADE.
- ⑨ PLANT TABLETS (SEE SPECS).
- ⑩ ROOTBALL.
- ⑪ 3" DIA. X 3' DEEP PERFORATED BREATHER TUBE W/ NDS DRAIN GRATE (1 PER TREE).

1 GROUND FAULT CONNECTION DETAIL

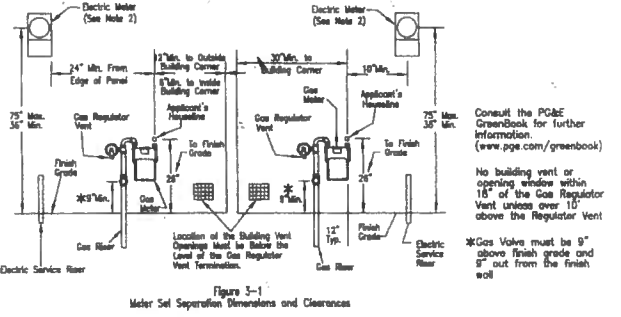
APPLICANT CHECKLIST

- CONTACT UNDERGROUND SERVICE ALERT "USA" AT 1-800-227-2600 AT LEAST 2 WORKING DAYS BEFORE EXCAVATION TO HAVE EXISTING UNDERGROUND UTILITIES MARKED IN FIELD
- OBTAIN CITY/COUNTY EXCAVATION PERMIT (IF APPLICANT TO TRENCH)
- FOLLOW TRENCH INSTRUCTIONS (IF APPLICANT TO TRENCH)
- MAINTAIN 5' OF SEPARATION FROM NET FACILITIES (I.E. WATER, SEWER, STORM), REFER TO US STANDARD S543, EXHIBIT B
- HAVE SUFFICIENT SAND ON-SITE PRIOR TO FINAL INSPECTION, REFER TO GREENBOOK SECTION 2.3.4
- COORDINATE INSTALLATION OF TELEPHONE AND CABLE TO FACILITIES PER THEIR CONSTRUCTION REQUIREMENTS
- CALL (408) 725-2200 OR FAX (408) 725-7773 FOR PG&E INSPECTION - 48 HOUR NOTICE
- FLUSH GAS HOUSELINE TO NEW LOCATION AND HAVE MUNICIPAL METER POLE THAT GAS HOUSELINE HAS PASSED INSPECTION
- GAS METER GUARDS PER GAS STANDARDS AND SPECIFICATIONS MANUAL SECTION J-95
- PAYMENT MUST BE RECEIVED BY PG&E BEFORE CONSTRUCTION WORK CAN BE SCHEDULED

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS

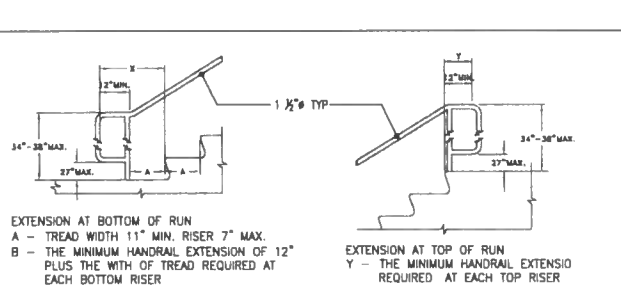
UTILITY	G	T	C	S	P	F	MINIMUM COVER
G GAS	12"	12"	6"	12"	12"	24"	30" IN STREET
T TELEPHONE	12"	1"	12"	12"	1"	24"	30" IN STREET
C CABLE	12"	1"	12"	12"	1"	24"	30" IN STREET
S ELECTRIC SECONDARY	6"	12"	12"	3"	12"	24"	30" IN STREET
P ELECTRIC PRIMARY	12"	12"	12"	3"	12"	30"	36" IN STREET
F FIBER OPTIC	12"	1"	1"	12"	12"	24"	30" IN STREET

PER US STANDARD S543, EXHIBIT B



GAS CONSTRUCTION SKETCH
10535 CYPRESS CT.
APPLICANT COPY / PG&E INSPECTOR COPY
PACIFIC GAS AND ELECTRIC COMPANY

A PALM PLANTING DETAIL NO SCALE



- TREE PRESERVATION NOTES:**
- PROTECT ROOT COLLAR FROM DAMAGE BY ALL GRADING EQUIPMENT.
 - GRADING UNDER EXISTING TREES SHALL BE LIMITED TO CUTS AND FILLS OF 6" MAXIMUM FROM ORIGINAL GRADE. ALL TRENCHING OR DIGGING UNDER TREES SHALL BE DONE BY HAND TO PREVENT DAMAGE TO THE ROOT SYSTEM OF THE TREES.
 - CUTS OR FILLS SHALL NOT OCCUR WITHIN 6 FEET OF THE TRUNK OF ANY TREE, AND ONLY 4" DEEP FROM THAT POINT TO THE DRUMLINE.
 - A 4' SHOW FENCE, OR EQUAL, SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK FOR PROTECTION DURING CONSTRUCTION.
 - ANY TREE DAMAGED DURING CONSTRUCTION DUE TO NEGLIGENCE OF THESE SPECIFICATIONS SHALL RESULT IN THE REPLACEMENT OF AN EQUAL SIZE AND TYPE OF TREE AT THE CONTRACTOR'S EXPENSE.
 - FERTILIZER APPLICATION SHALL BE MADE TO THE TREE'S ROOT SYSTEM DURING APRIL OR MAY OF THE FOLLOWING YEAR AFTER CONSTRUCTION IS COMPLETED.
 - SURFACE RUNOFF SHALL BE DIVERTED AWAY FROM THE TREE CANOPY, AND NOT TO COURSE STANDING WATER UNDER THE TREE CANOPY.
 - WHEN CONSTRUCTION IS TO TAKE PLACE BENEATH THE TREE CANOPY ON ONE SIDE, THE FENCE SHOULD BE STAKED TO IT BEYOND THAT CONSTRUCTION, BUT BETWEEN THE CORNER AND THE TREE TRUNK. ANY ROOTS WHICH ARE ENCOUNTERED GREATER THAN 2" IN DIAMETER SHALL BE HAND SAW CUT AND TO LEAVE A CLEAN CUT. ALL TRENCHING SHALL BE BY HAND IN AND AROUND THE ROOT SYSTEM. AT NO TIME SHALL CONSTRUCTION EQUIPMENT OR ANY VEHICLE BE ALLOWED TO PARK BENEATH THE CANOPY OF TREES TO BE SAVED. NOR SHALL ANY MATERIAL BE STACKED UNDER THE TREE CANOPY.
 - ALL TREES AND SHRUBS WHICH ARE TO BE REMOVED AFTER GENERAL DEMOLITION SHALL BE SAW CUT AT GROUND LEVEL AND THE REMAINING STUMP SHALL BE GROUND 18" BELOW THE GRADE SURFACE.

9 TREE PROTECTION

KC Associates
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1899 QUAIL DR., MILPITAS, CA 95035
TEL: (415) 943-1168
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WWW: www.kcassoc.com



PENG RESIDENCE
898 CALAVERAS RIDGE DR
MILPITAS, CA 95035

Sheet Title
Date 02-05-19
Scale
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Sheet A8

NEW RESIDENCE 898 CALAVERAS, MILPITAS, CALIFORNIA



CLARK CIVIL ENGINEERING
DESIGN • CONSULTING • SURVEY
17700 Highway One, Redwood Shores, CA
PH: 415-395-4450 FAX: 310-372-0256



**NEW RESIDENCE
898 CALAVERAS RIDGE DR.
MILPITAS, CALIFORNIA**

APR: 029-06-038
SANTA CLARA COUNTY

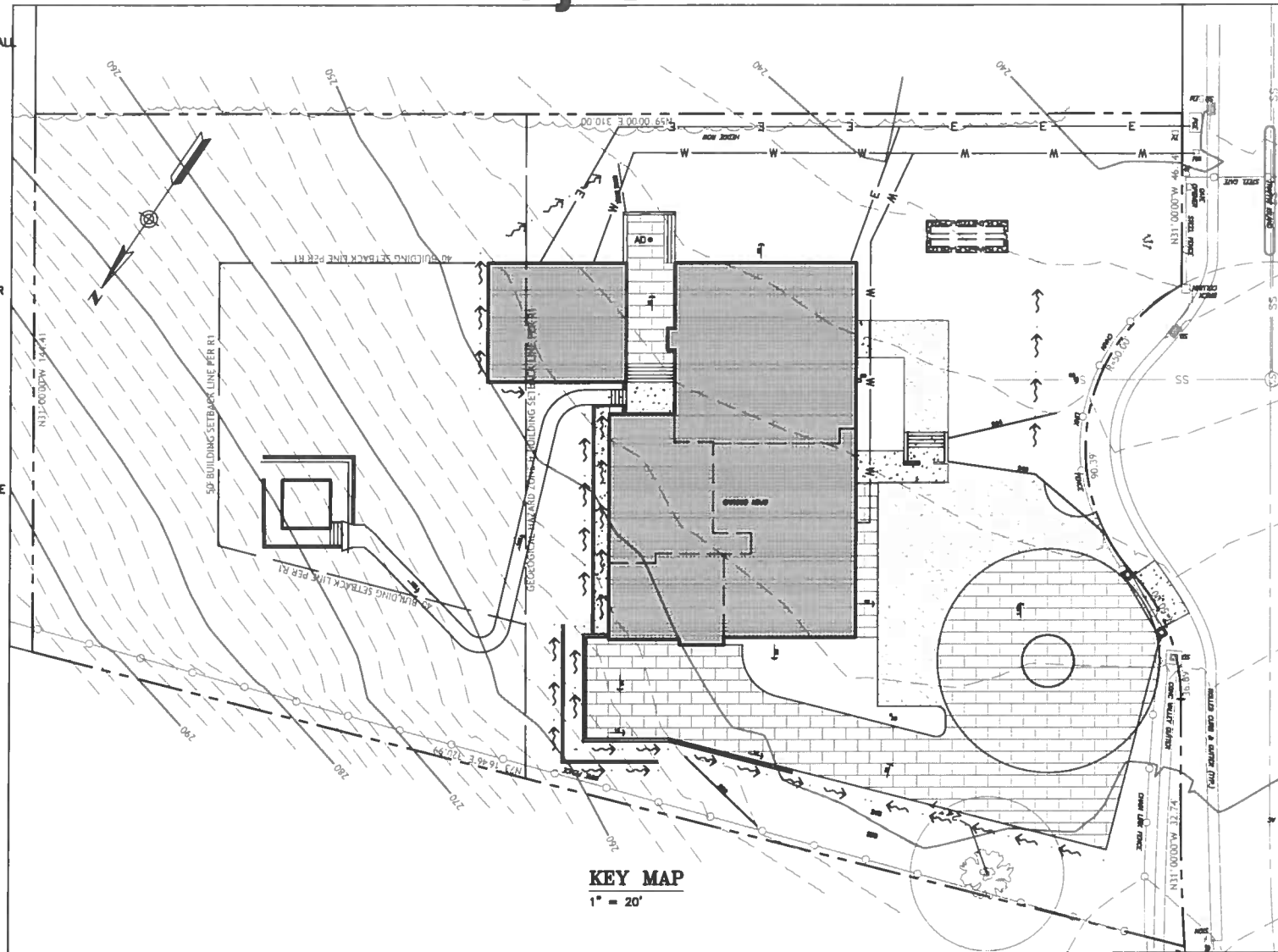
TITLE SHEET

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	BOUNDARY
---	---	PROPERTY LINE
---	---	RETAINING WALL
---	---	LANDSCAPE RETAINING WALL
---	---	SUBDRAIN LINE
---	---	TIGHTLINE
---	---	STORM DRAIN LINE
---	---	SANITARY SEWER LINE
---	---	WATER LINE
---	---	GAS LINE
---	---	PRESSURE LINE
---	---	JOINT TRENCH
---	---	SET BACK LINE
---	---	CONCRETE VALLEY GUTTER
---	---	EARTHEN SWALE
CB	CB	CATCH BASIN
JB	JB	JUNCTION BOX
AD	AD	AREA DRAIN
SDMH	SDMH	CURB INLET
SSMH	SSMH	STORM DRAIN MANHOLE
722.57 MV	722.57 MV	FIRE HYDRANT
SSMH	SSMH	SANITARY SEWER MANHOLE
222.57 MV	222.57 MV	STREET SIGN
200	200	SPOT ELEVATION
200	200	FLOW DIRECTION
XX	XX	DEMOLISH/REMOVE
XX	XX	BENCHMARK
XX	XX	CONTOURS
XX	XX	TREE TO BE REMOVED

ABBREVIATIONS

AB	AGGREGATE BASE	LF	LINEAL FEET
AC	ASPHALT CONCRETE	MAX	MAXIMUM
ACC	ACCESSIBLE	MH	MANHOLE
AD	AREA DRAIN	MIN	MINIMUM
BC	BEGINNING OF CURVE	MON.	MONUMENT
B & D	BEARING & DISTANCE	(N)	NEW
BM	BENCHMARK	NO.	NUMBER
BW/FG	BOTTOM OF WALL/FINISH	NTS	NOT TO SCALE
GRADE		O.C.	ON CENTER
CB	CATCH BASIN	O/	OVER
C & G	CURB AND GUTTER	P.A.	PLANTING AREA
CL	CENTER LINE	PED	PEDESTRIAN
CPP	CORRUGATED PLASTIC PIPE	PIV	POST INDICATOR VALVE
	(SMOOTH INTERIOR)	PSS	PUBLIC SERVICES EASEMENT
CO	CLEANOUT	P	PROPERTY LINE
COTG	CLEANOUT TO GRADE	PP	POWER POLE
CONC	CONCRETE	PUE	PUBLIC UTILITY EASEMENT
CONST	CONSTRUCT or -TION	PVC	POLYVINYL CHLORIDE
CONC COR	CONCRETE CORNER	R	RADIUS
CUB YARD	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
D	DIAMETER	RM	RIM ELEVATION
DI	DROP INLET	RW	RAINWATER
DIP	DUCTILE IRON PIPE	R/W	RIGHT OF WAY
EA	EACH	S	SLOPE
EC	END OF CURVE	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EG	EXISTING GRADE	SAN	SANITARY
EL	ELEVATIONS	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EQ	EQUIPMENT	SHT	SHEET
EW	EACH WAY	S.L.D.	SEE LANDSCAPE DRAWINGS
(E)	EXISTING	SPEC	SPECIFICATION
FC	FACE OF CURB	SS	SANITARY SEWER
FF	FINISHED FLOOR	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	ST	STREET
FL	FLOW LINE	STA	STATION
FS	FINISHED SURFACE	STD	STANDARD
GA	GAS	STRUCT	STRUCTURAL
GB	CAGE OR GAUGE	TC	TELEPHONE
GD	GRADE BREAK	TEMP	TEMPORARY
HDPE	HIGH DENSITY CORRUGATED	TP	TOP OF PAVEMENT
	POLYETHYLENE PIPE	TW/FG	TOP OF WALL/FINISH GRADE
HORIZ	HORIZONTAL	TYP	TYPICAL
HI PT	HIGH POINT	VC	VERTICAL CURVE
H&T	HUB & TACK	VCP	VITRIFIED CLAY PIPE
ID	INSIDE DIAMETER	VERT	VERTICAL
INV	INVERT ELEVATION	W	WITH
JB	JUNCTION BOX	W, WL	WATER LINE
JT	JOINT TRENCH	WM	WATER METER
JP	JOINT UTILITY POLE	WWF	WELDED WIRE FABRIC
L	LENGTH		
LNDG	LANDING		

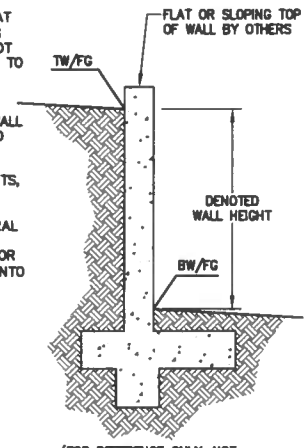


KEY MAP

1" = 20'

RETAINING WALL NOTES

- TW/FG REPRESENTS FINISHED EARTHEN GRADE OR PAVEMENT ELEVATION AT TOP OF WALL, NOT ACTUAL TOP OF WALL MATERIAL. BW/FG REPRESENTS FINISH EARTHEN GRADE OR PAVEMENT ELEVATION AT BOTTOM OF WALL NOT INCLUDING FILL FOUNDATION. GRADES INDICATED ON THESE PLANS REFER TO THE FINISHED GRADES ADJACENT TO THE RETAINING WALL, NOT INCLUDING FOOTING, FREEBOARD, ETC.
- GRADES SHOWN ON PLAN AS TW X.XX & BW X.XX REPRESENT DENOTED WALL HEIGHT ONLY. THE ACTUAL WALL HEIGHT AND DEPTH MAY DIFFER DUE TO CONSTRUCTION REQUIREMENTS.
- REFER TO SPECIFIC WALL CONSTRUCTION DETAIL FOR STRUCTURAL ELEMENTS, FREEBOARD, AND EMBEDMENT.
- REFER TO ARCHITECTURAL, LANDSCAPE ARCHITECTURE, AND/OR STRUCTURAL PLANS FOR DETAILS, WALL ELEVATIONS, SUBORAINAGE, WATERPROOFING, FINISHES, COLORS, STEEL REINFORCING, MATERIALS, ETC. PROVIDE CLIPS OR OTHER MEANS OF SECURING FINISH MATERIALS AS NECESSARY (WET SET INTO THE WALL).
- ALL RETAINING WALLS SHOULD HAVE A BACK-OF-WALL SUB-SURFACE DRAINAGE SYSTEM INCLUDING WEEDHOLES TO PREVENT HYDROSTATIC PRESSURE.
- SEE DETAIL SHEET FOR SPECIFIC INFORMATION.
- PROVIDE GUARDRAIL (WHERE APPLICABLE AND DESIGNED BY OTHERS) AS REQUIRED FOR GRADE SEPARATION OF 30 INCHES OR MORE MEASURED 5' HORIZONTALLY FROM FACE OF WALL, PER CBC.



(FOR REFERENCE ONLY, NOT A CONSTRUCTION DETAIL)

ESTIMATED EARTHWORK QUANTITIES

	CUBIC YARDS	TOTAL CUBIC YARDS
CUT	625	-
FILL	60	-
EXPORT	-	565

NOTE:

GRADING QUANTITIES REPRESENT BANK YARDAGE. IT DOES NOT INCLUDE ANY SWELLING OR SHRINKAGE FACTORS AND IS INTENDED TO REPRESENT IN-SITU CONDITIONS. QUANTITIES DO NOT INCLUDE OVER-EXCAVATION, TRENCHING, STRUCTURAL FOUNDATIONS OR PIERS, OR POOL EXCAVATION (IF ANY). NOTE ADDITIONAL EARTHWORKS, SUCH AS KEYWAYS OR BENCHING MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER IN THE FIELD AT TIME OF CONSTRUCTION. CONTRACTOR TO VERIFY QUANTITIES.

* BUILDING PAD NOTE:
ADJUST PAD LEVEL AS REQUIRED, REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL.



VICINITY MAP

NTS

REFERENCES

THIS GRADING AND DRAINAGE PLAN IS SUPPLEMENTAL TO:

TOPOGRAPHIC SURVEY BY:
AMERICAN BASELINE COMPANY
2484 EL CAMINO REAL, STE# 117
SANTA CLARA, CA 95051
408-394-9281

ENTITLED:

"LOT 4, TRACT NO. 7328
CALAVERAS RIDGE ESTATES, 535 MAPS 8-9
SANTA CLARA COUNTY, CALIFORNIA
APN: 029-06-038
DATED: MAY 2018

2. SITE PLAN BY KCA ARCHITECTS, ENTITLED:

"SITE PLAN"
NEW RESIDENCE
898 CALAVERAS RIDGE
MILPITAS, CALIFORNIA
DATE: OCTOBER 2018

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

BENCHMARK

CITY OF MILPITAS PUBLIC WORKS
SANITARY SEWER MANHOLE NO. 1585
MANHOLE ID NO. 11392
RIM ELEVATION = 243.60 (NAVD 88)

IMPERVIOUS SURFACE DATA

EXISTING IMPERVIOUS SURFACE	0
PROPOSED IMPERVIOUS SURFACE	7859 SF
PROPOSED PERVIOUS PAVING	7099 SF
TOTAL LOT AREA	1.27 ACRES
TOTAL DISTURBED AREA	29,452 SF

BOUNDARY

NOTE: BOUNDARY INFORMATION SHOWN DOES NOT CONSTITUTE A BOUNDARY SURVEY BUT IS COMPILED FROM RECORD DATA. NO WARRANTY OF BOUNDARY INFORMATION IS EXPRESSED OR IMPLIED AND THE LOCATION OF TOPOGRAPHIC FEATURES IN RELATION TO THE PROPERTY LINES IS ACCURATE ONLY TO THE NORMAL AND USUAL STANDARDS OF GRAPHICS AND TOPOGRAPHIC SURVEYING.

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CO.1	TITLE SHEET
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CO.1	GRADING & DRAINAGE PLAN
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C3.3	SECTIONS
C4.1	EROSION CONTROL PLAN
C4.2	EROSION CONTROL DETAILS
C4.3	CONSTRUCTION BEST MANAGEMENT PRACTICES (SWPPP)

REVISIONS	BY

JOB NO: 218043
DATE: 5-12-19
SCALE: AS NOTED
DESIGN BY: WCC
DRAWN BY: DR
SHEET NO:

CO.1

SITE ANNOTATION KEYS

- 1 FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MIN. OF 5% FOR THE FIRST 10 FT. AWAY FROM THE BUILDING AND THEN SHALL CONTINUE TO SLOPE TO TOWARDS POSITIVE OUTFALL. MAINTAIN 8" CLEARANCE BETWEEN FINISH EARTHEN GRADE AND BOTTOM OF MUD SILL AT ALL TIMES, U.O.N. -TYP.
- 2 PROVIDE 1% (0.4% MIN.) SLOPE ACROSS FLATWORK AND/OR PAVING AND SLOPE TO DAYLIGHT. REFER TO ARCHITECT'S PLANS FOR PAVEMENT TYPE, LAYOUT, AND FINISH. -TYP.
- 3 (N) ROOF DOWNSPOUT (DS) TO SPLASH BLOCKS DIRECT FLOWS AWAY FROM BUILDING AND TOWARD POSITIVE RELEASE.
- 4 (E) WATER SERVICE. CONTRACTOR SHALL LOCATE PRIOR TO CONSTRUCTION PER UTILITY COMPANY STANDARDS. CONNECT TO (E) WATER METER PER WATER DISTRICT STANDARDS. UPGRADE AS REQUIRED.
- 5 CONSTRUCT (N) EARTHEN SWALE. SWALE SHALL BE 12-INCHES WIDE AND 3-INCHES DEEP MIN. SLOPE @ 1% TYPICAL (0.5% MIN.). DIRECT TOWARDS DAYLIGHT.
- 6 4" PVC (SDR-35) STORM DRAIN @ 1% -TYP. (0.5% MIN.).
- 7 INSTALL NEW PERFORATED SUBDRAIN LINE BEHIND RETAINING WALL AND AROUND NEW HOUSE FOUNDATION. USE 4" PVC (SDR-35 OR BETTER) WITH HOLES FACING DOWN.
- 8 INSTALL NEW CHRISTY V24 CATCH BASIN / JUNCTION BOX. PROVIDE AN OPEN BOTTOM SILT BASIN AND A 6" GRAVEL BOTTOM TO ALLOW DRAINAGE.
- 9 INSTALL NEW METERED RELEASE CATCH BASIN.
- 10 INSTALL NEW 20' x 24" RETENTION PIPE FOR METERED RELEASE.

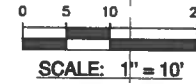
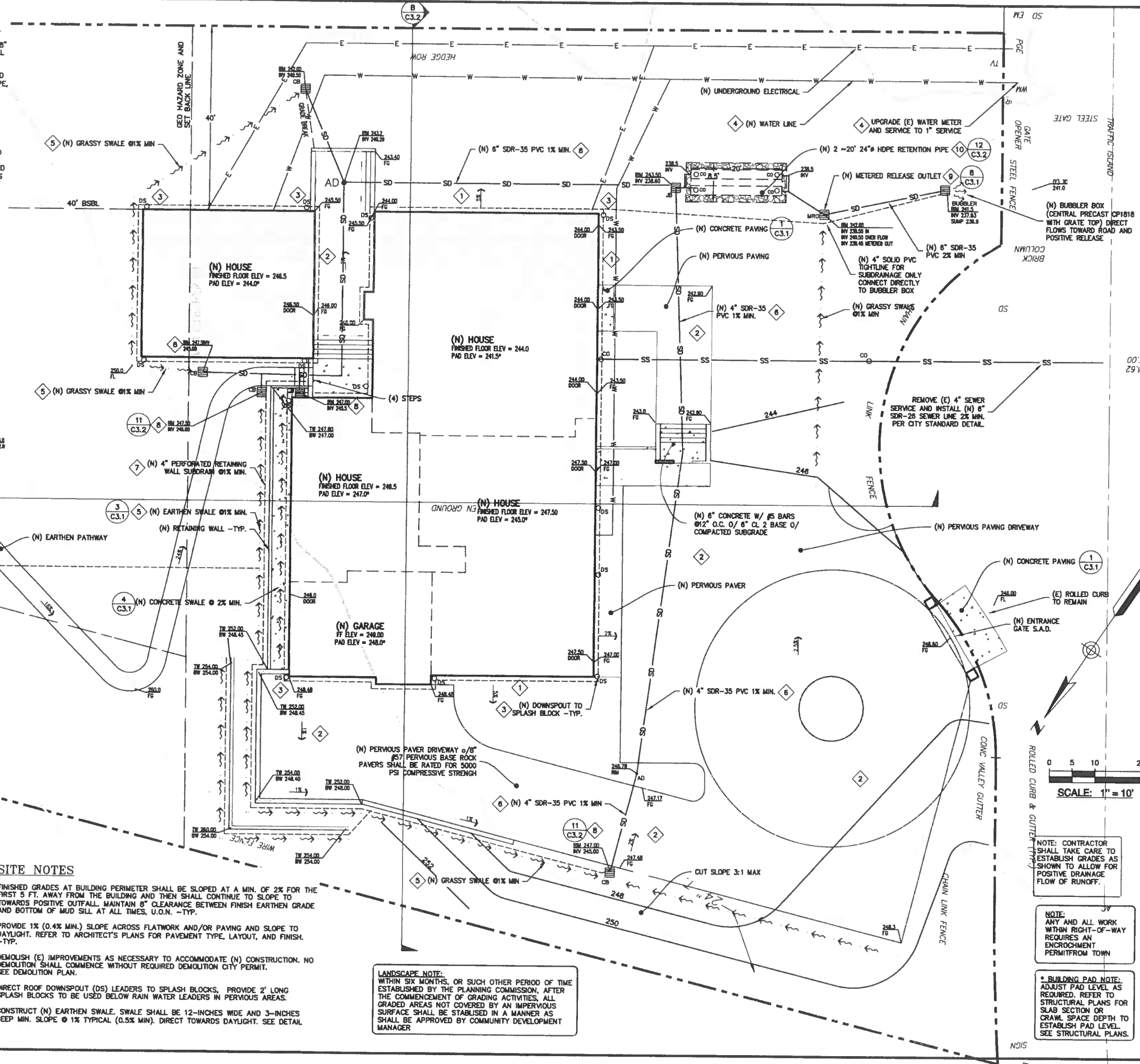
GENERAL NOTES

- CONTRACTOR SHALL OBTAIN THE PROPER PERMITS PRIOR TO ANY GRADING.
- A SEPARATE PERMIT IS REQUIRED FOR ANY & ALL WORK WITHIN THE CITY RIGHT-OF-WAY. THE CONTRACTOR(S) SHALL OBTAIN AN APPROVED STREET WORK (ENCROACHMENT PERMIT) PERMIT FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO THE COMMENCEMENT OF THIS WORK WITHIN THE CITY RIGHT-OF-WAY.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN APPROVED EROSION AND SEDIMENTATION CONTROL MEASURES DURING RAINY SEASON PER CITY AND CALIFORNIA REGIONAL STANDARDS - REFER TO EROSION AND SEDIMENTATION CONTROL PLAN.
- ALL GRADED SLOPES SHALL BE PLANTED WITH FAST GROWING, DEEP ROOTED GROUND COVER TO REDUCE THE EROSION DURING HEAVY RAINS.
- SLOPE FINISHED GRADES A MINIMUM OF 5%, FOR AT LEAST THE 5 FEET TO 10 FEET FROM BUILDING PERIMETER WHERE EVER IT IS PHYSICALLY POSSIBLE. DIRECT SURFACE DRAINAGE RUNOFF TO DISPERSE ON-SITE.
- PROVIDE 2% SLOPE ACROSS FLATWORK AND/OR PAVING AND SLOPE TO DAYLITE. REFER TO ARCHITECT'S PLANS FOR PAVEMENT TYPE, LAYOUT, AND FINISH -TYP.
- CONSTRUCT EARTHEN SWALES AT 2% TYP. (1% MIN.) & BERMS AS REQUIRED TO DIRECT FLOWS TO DAYLITE. SLOPE FINISHED GRADES TO DAYLITE, TO ACCOMMODATE POSITIVE DRAINAGE AND AVOID PONDING FOR FLOWLINES GREATER THAN 5%, PROVIDE LINED DITCH -TYP.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION, INCLUDING BUT NOT LIMITED TO: ADDITIONAL UTILITY SERVICES, DIMENSION CONTROL, DEMOLITION, DETAILS, TREE PROTECTION MEASURES, AND LANDSCAPING.
- PROVIDE TREE PROTECTION AS REQUIRED FOR TREES TO REMAIN.
- THE CONTRACTOR SHALL OBTAIN THE PROPER TREE REMOVAL PERMIT AS REQUIRED.
- CONTRACTOR SHALL NOTIFY THE OWNER AND/OR MAINTENANCE STAFF IN WRITING OF THE NEED OF PERIODIC MAINTENANCE OF THE DRAINAGE SYSTEM AND STRUCTURES.
- DEMOLISH (E) STRUCTURE(S) AS REQUIRED. NO DEMOLITION SHALL COMMENCE WITHOUT REQUIRED CITY DEMOLITION PERMIT.

SITE NOTES

- FINISHED GRADES AT BUILDING PERIMETER SHALL BE SLOPED AT A MIN. OF 2% FOR THE FIRST 5 FT. AWAY FROM THE BUILDING AND THEN SHALL CONTINUE TO SLOPE TO TOWARDS POSITIVE OUTFALL. MAINTAIN 8" CLEARANCE BETWEEN FINISH EARTHEN GRADE AND BOTTOM OF MUD SILL AT ALL TIMES, U.O.N. -TYP.
- PROVIDE 1% (0.4% MIN.) SLOPE ACROSS FLATWORK AND/OR PAVING AND SLOPE TO DAYLIGHT. REFER TO ARCHITECT'S PLANS FOR PAVEMENT TYPE, LAYOUT, AND FINISH. -TYP.
- DEMOLISH (E) IMPROVEMENTS AS NECESSARY TO ACCOMMODATE (N) CONSTRUCTION. NO DEMOLITION SHALL COMMENCE WITHOUT REQUIRED DEMOLITION CITY PERMIT. SEE DEMOLITION PLAN.
- DIRECT ROOF DOWNSPOUT (DS) LEADERS TO SPLASH BLOCKS. PROVIDE 2' LONG SPLASH BLOCKS TO BE USED BELOW RAIN WATER LEADERS IN PERVIOUS AREAS.
- CONSTRUCT (N) EARTHEN SWALE. SWALE SHALL BE 12-INCHES WIDE AND 3-INCHES DEEP MIN. SLOPE @ 1% TYPICAL (0.5% MIN.). DIRECT TOWARDS DAYLIGHT. SEE DETAIL.

LANDSCAPE NOTE:
 WITHIN SIX MONTHS, OR SUCH OTHER PERIOD OF TIME ESTABLISHED BY THE PLANNING COMMISSION, AFTER THE COMMENCEMENT OF GRADING ACTIVITIES, ALL GRADED AREAS NOT COVERED BY AN IMPERVIOUS SURFACE SHALL BE STABILISED IN A MANNER AS SHALL BE APPROVED BY COMMUNITY DEVELOPMENT MANAGER



NOTE: CONTRACTOR SHALL TAKE CARE TO ESTABLISH GRADES AS SHOWN TO ALLOW FOR POSITIVE DRAINAGE FLOW OF RUNOFF.

NOTE: ANY AND ALL WORK WITHIN RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM TOWN

* BUILDING PAD NOTE: ADJUST PAD LEVEL AS REQUIRED. REFER TO STRUCTURAL PLANS FOR SLAB SECTION OR CRAWL SPACE DEPTH TO ESTABLISH PAD LEVEL. SEE STRUCTURAL PLANS.



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NEW RESIDENCE RIDGE DR.
898 CALAVERAS RIDGE DR.
MILPITAS, CALIFORNIA

GRADING & DRAINAGE PLAN

REVISIONS	BY

JOB NO: 218043
 DATE: 5-12-19
 SCALE: AS NOTED
 DESIGN BY: WCC
 DRAWN BY: DR
 SHEET NO:

CR.1

SANTA CLARA COUNTY
 APN: 029-06-038



DETAILS

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NOTES:

1. SLOPE ALL CONCRETE TO DRAIN 1% MIN.
2. SEE LANDSCAPE OR ARCHITECTURAL PLANS FOR CONCRETE COLORS AND FINISHES.
3. EASE ALL EDGES R=1/2"
4. FELT SHALL BE NON-ASPHALTIC IMPREGNATED.

CONTRACTION JOINT, 2 1/2" DEEP SEE LANDSCAPE OR ARCHITECTURAL PLANS FOR PLACEMENT OF JOINTS

#4 REBAR @18" OC EACH WAY

R=1/2" -TYP

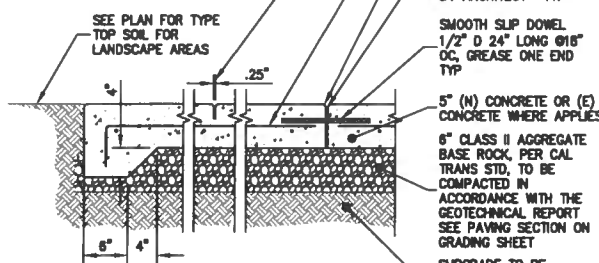
EXPANSION JOINT - 3/8" HOLD FELT DOWN 1/2" AND SEAL W/ SEALANT, COLOR TO BE APPROVED BY ARCHITECT -TYP

SMOOTH SLIP DOWEL 1/2" D 24" LONG @18" OC, GREASE ONE END TYP

5" (N) CONCRETE OR (E) CONCRETE WHERE APPLIES.

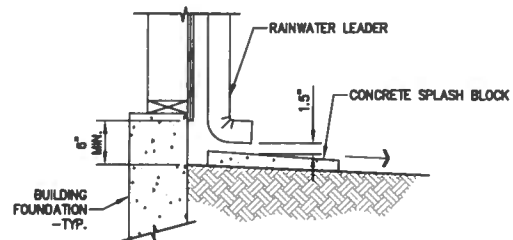
6" CLASS II AGGREGATE BASE ROCK, PER CAL TRANS STD, TO BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT SEE PAVING SECTION ON GRADING SHEET

SUBGRADE TO BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT



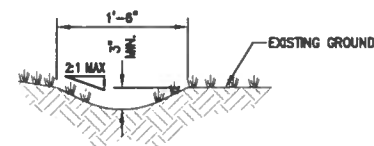
1 CONCRETE PAVING

C3.1 NTS



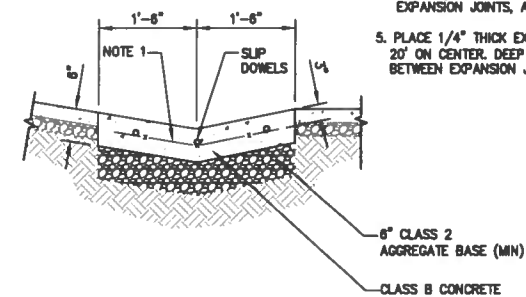
2 RAIN WATER LEADER TO CONCRETE SPLASH BLOCK

C3.1 NTS



3 EARTHEN SWALE DETAIL

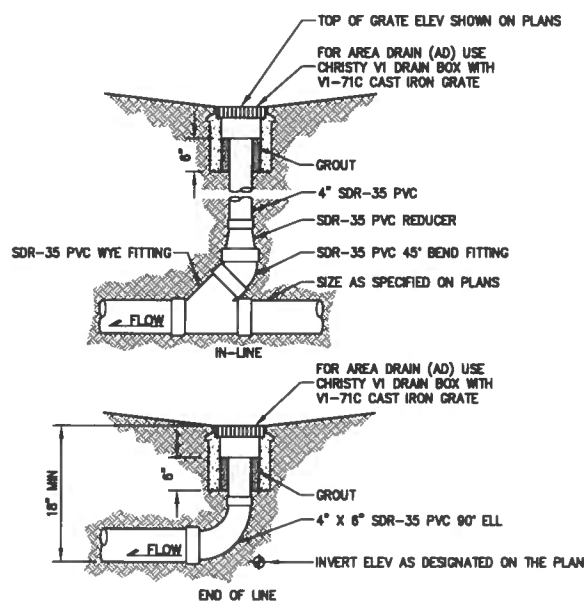
C3.1 NTS



4 CONCRETE SWALE

C3.1 NTS

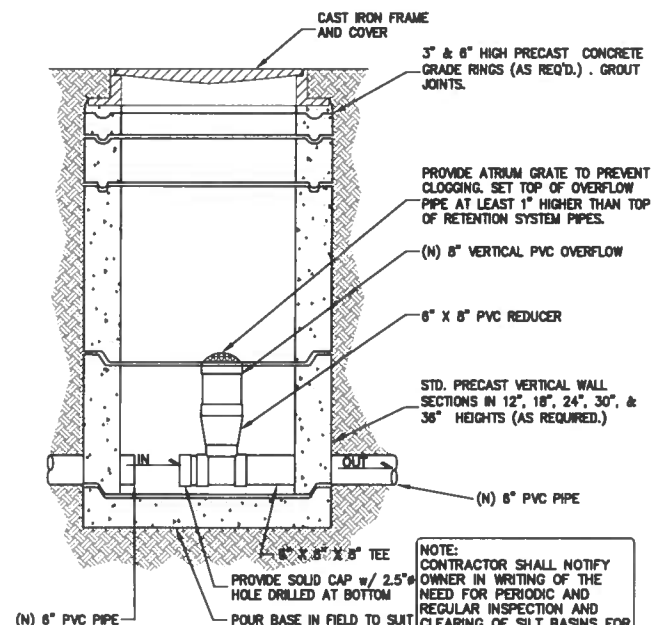
- BE INSTALLED PRIOR TO P
4. PLACE 1/2" DIAMETER X 11 EXPANSION JOINTS, AS SH
 5. PLACE 1/4" THICK EXPANS 20' ON CENTER, DEEP SCOF BETWEEN EXPANSION JOINTS



6 AREA DRAIN

C3.1 NTS

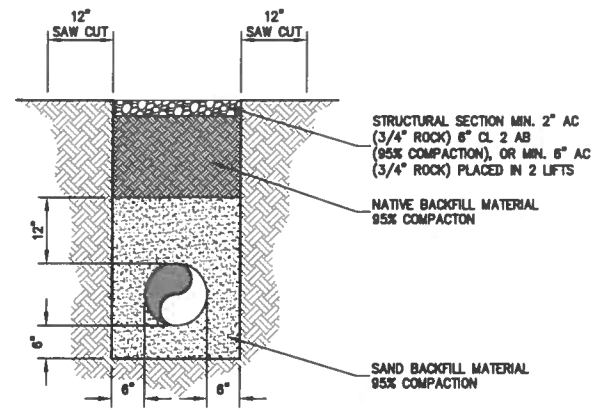
NOTE: GLUED FITTINGS MAY BE SUBSTITUTED FOR GASKETED FITTINGS AT THE OPTION OF THE INSTALLATION CONTRACTOR.



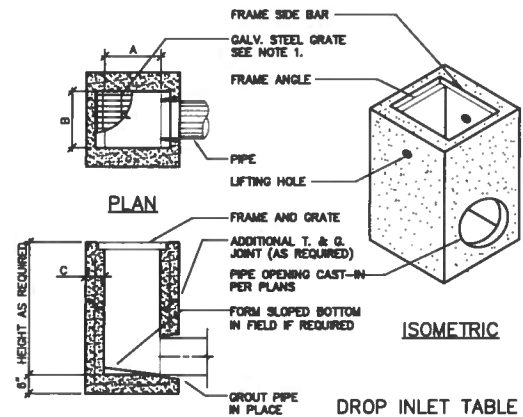
8 METERED RELEASE OUTLET

C3.1 NTS

NOTE: CONTRACTOR SHALL NOTIFY OWNER IN WRITING OF THE NEED FOR PERIODIC AND REGULAR INSPECTION AND CLEARING OF SILT BASINS FOR LONG TERM PERFORMANCE.



9 TRENCH BACKFILL
C3.2 NTS



TYPICAL SECTION

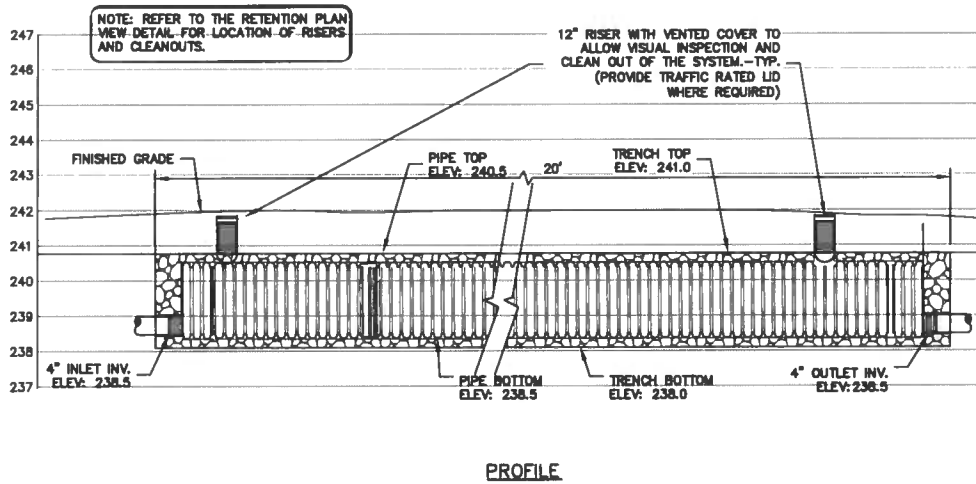
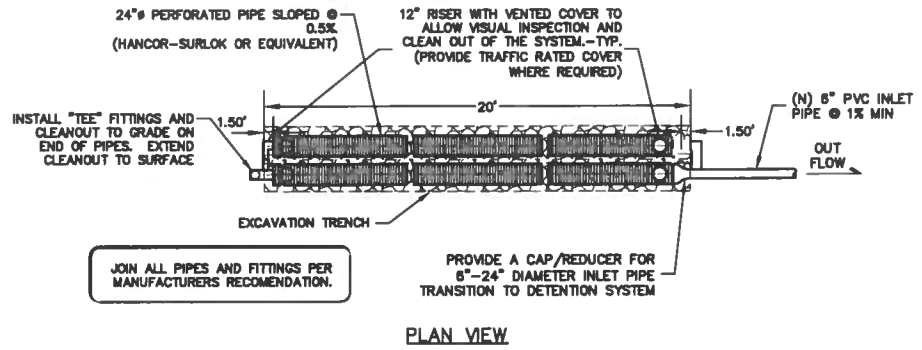
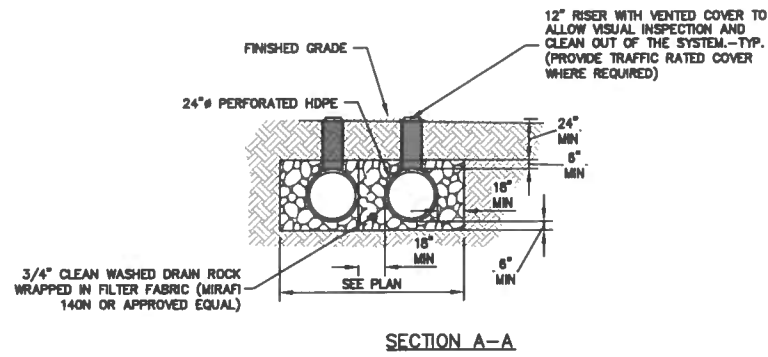
DROP INLET TABLE

MODEL No.	SIZE	A	B	C
		IN	MM	IN
CP1212	EK	12	300	12
CP1818	CK	18	450	18
CP1824	1K ^o	18	450	24
CP2424	2K	24	600	24
CP2430	3K	24	600	30
CP3030	BK	30	750	30
CP2436	1L	24	600	36
CP3636	1M	36	900	36
CP2448	3L	24	600	48
CP3648	3M	36	900	48
CP4848	1R	48	1200	48

NOTES:

- FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR HIGH TRAFFIC LOADINGS. ALL GRATES ARE BICYCLE PROOF. OPTIONAL GRATE LIFTING DEVICE AVAILABLE ON REQUEST. SEE DRAWING "LOOK" ON PAGE 1-7. CLOSED-MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
- FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING NO. "D-80" PAGE 1-8 AND "D-80" PAGE 1-6.
- FRAMES AND GRATES DETAILS SEE PAGES 1-4, 1-8, AND 1-10.
- WALL THICKENING ON ALL D.I.S. CAN BE CHANGED UPON REQUEST.
- 18" WIDE D.I.'S REPLACE THE OLD 16" WIDE BOX BK & TK.

11 CATCH BASIN DETAIL
C3.2 NTS



12 RETENTION SYSTEM
C3.2 NTS



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NEW RESIDENCE
898 CALAVERAS RIDGE DR.
MILPITAS, CALIFORNIA
SANTA CLARA COUNTY APN: 029-08-038

DETAILS

NO.	REVISIONS	BY

JOB NO: 218043
DATE: 5-12-19
SCALE: AS NOTED
DESIGN BY: WCC
DRAWN BY: DR
SHEET NO:

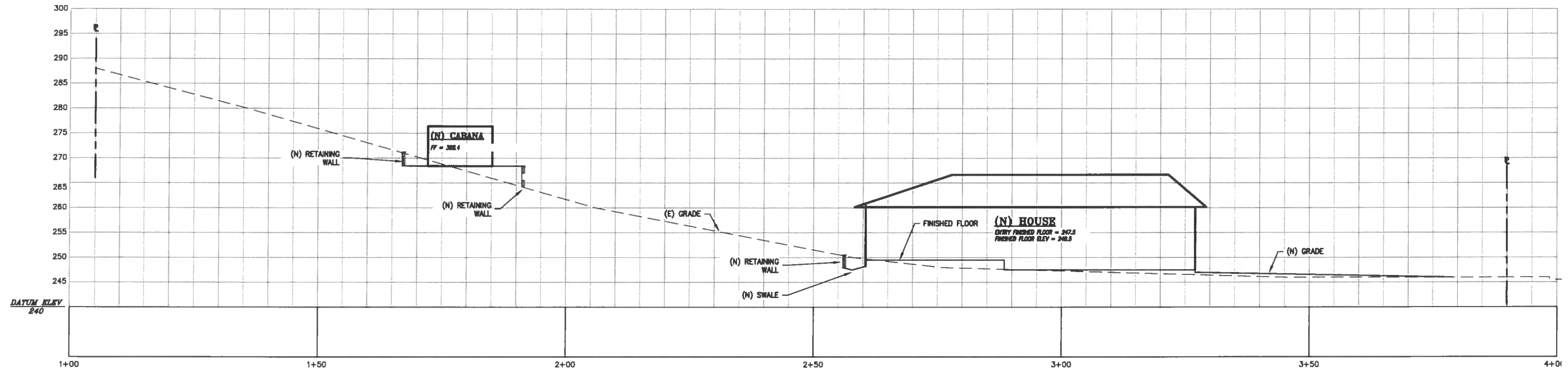
C3.2



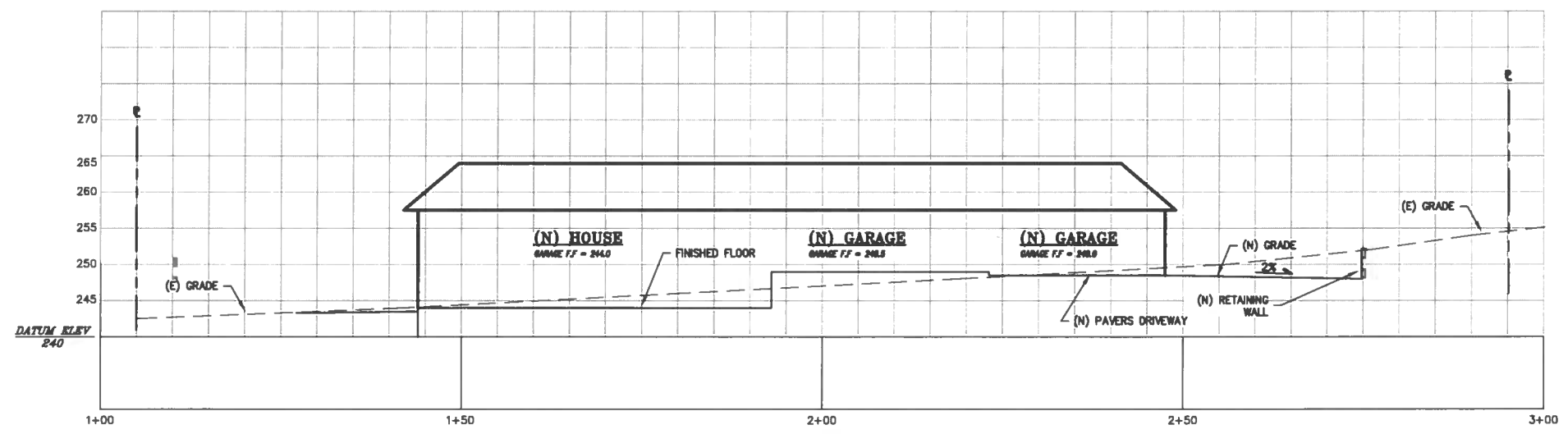
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 12700 Highway One, P.O. Box 1000, San Diego, CA
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NEW RESIDENCE
 898 CALAVERAS RIDGE DR.
 MILPITAS, CALIFORNIA
 SANTA CLARA COUNTY APN: 029-06-038



A SECTION
 C-5
 HORIZ. 1" = 10'
 VERT. 1" = 10'



B SECTION
 C-5
 HORIZ. 1" = 10'
 VERT. 1" = 10'

SECTIONS

REVISIONS	BY

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NEW RESIDENCE
898 CALAVERAS RIDGE DR.
MILPITAS, CALIFORNIA

APN: 029-06-038

EROSION & SEDIMENTATION CONTROL NOTES & DETAILS

REVISIONS	BY

JOB NO: 218043
DATE: 5-12-19
SCALE: AS NOTED
DESIGN BY: WCC
DRAWN BY: DR
SHEET NO:

C4.2

PERIODIC MAINTENANCE:

- MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
 - DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
 - SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
 - SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
 - SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1' FOOT.
 - SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
 - RILLS AND GULLIES MUST BE REPAIRED.
- GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVEL BAG.
- STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL.
- SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
- CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL BUILDUP.
- ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO ASSURE PROPER FUNCTION.

EROSION CONTROL MEASURES:

- THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY. APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
- ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 907 EROSION CONTROL AND HIGHWAY PLANTING OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
- INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN.
- THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF CLARK CIVIL ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY CLARK CIVIL ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
- THE EROSION CONTROL MEASURES SHALL CONFORM TO THE COUNTY STANDARDS AND THE APPROVAL OF THE COUNTY'S ENGINEERING DEPARTMENT.
- STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWNSLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY ENDBUTTED. CONTRACTOR SHALL REFER TO MANUFACTURERS SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

REFERENCES:

- CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL
- CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION

PURPOSE:

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. CLARK CIVIL ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

EROSION CONTROL NOTES:

- IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS EROSION CONTROL PLAN.
- THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJECT.
- OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING, AND AFTER STORM EVENTS. PERSON IN CHARGE OF MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE.
- SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
- ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH.
- EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH THROUGH APRIL 15TH, WHICHEVER IS LONGER.
- IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY COUNTY'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
- MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
- EROSION CONTROL MEASURES SHALL BE ON-SITE FROM SEPTEMBER 15TH THRU APRIL 15TH.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 15 THRU APRIL 15, WHICHEVER IS GREATER.

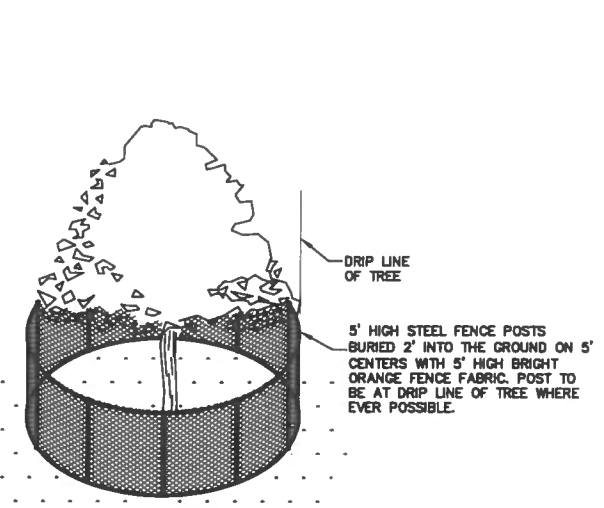
NOTES:

STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3" TO 4" WASHED, FRACTURED STONE AGGREGATE.
MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12". LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50'.
WIDTH SHALL BE A MIN. OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.

THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH MATERIAL AS SPECIFIED IN ABOVE NOTE.

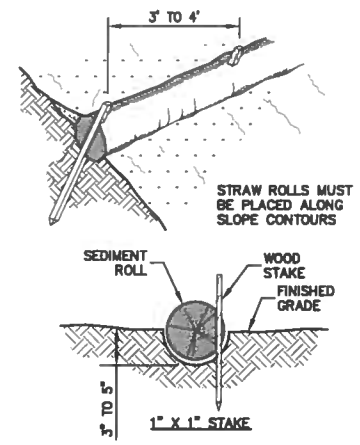
ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY.

PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.



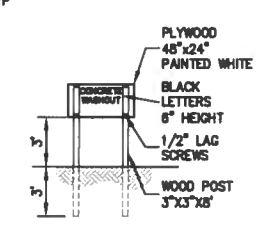
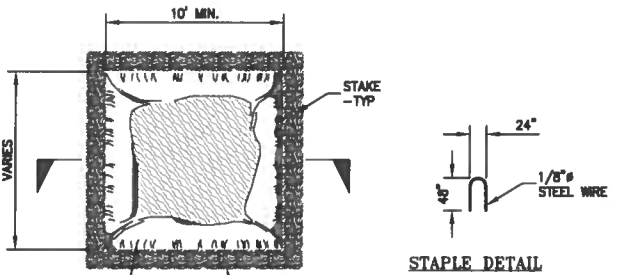
NOTE: LOCAL JURISDICTION MIGHT HAVE MORE STRINGENT REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING W/ INSPECTOR TO ENSURE PROPER PROCEDURES ARE BEING FOLLOWED.

1 EXISTING TREE PROTECTION DETAIL
C4.2 NTS



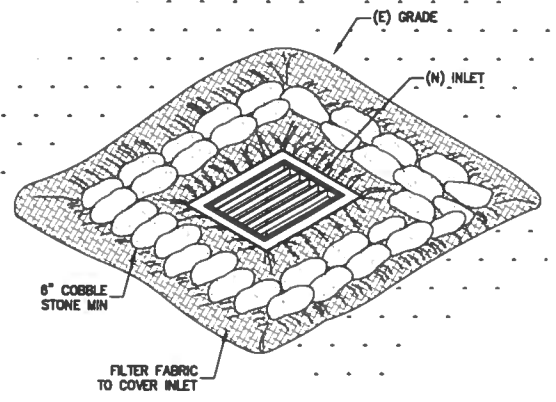
- NOTE:
- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. CONTRACTOR IS RESPONSIBLE FOR REGULAR MAINTENANCE AND INSPECTION. THE SILT SHALL BE CLEANED OUT WHEN IT REACHES HALF THE HEIGHT OF THE ROLL.
 -

2 STRAW ROLLS
C4.2 NTS

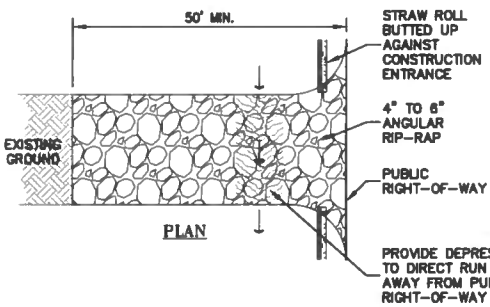
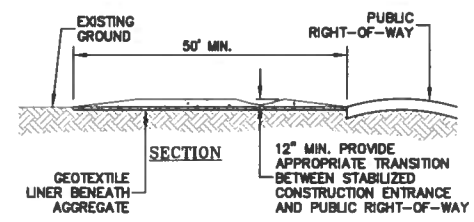


NOTES:
ACTUAL LAYOUT DETERMINED IN FIELD.
THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

4 CONCRETE WASHOUT
C4.2 NTS



3 INLET PROTECTION
C4.2 NTS

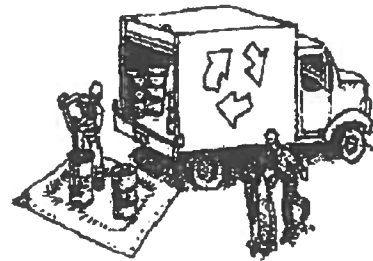


5 CONSTRUCTION ENTRANCE
C4.2 NTS

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gypsum board, pipe, etc.)
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



Maintenance and Parking

- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam cleaning equipment, etc.

Spill Prevention and Control

- Keep spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- Clean up spills or leaks immediately and dispose of cleanup materials properly.
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number. 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthwork & Contaminated Soils



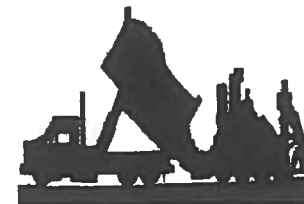
Erosion Control

- Schedule grading and excavation work for dry weather only.
- Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.

Sediment Control

- Protect storm drain inlets, gutters, ditches, and drainage courses with appropriate BMPs, such as gravel bags, fiber rolls, berms, etc.
- Prevent sediment from migrating offsite by installing and maintaining sediment controls, such as fiber rolls, silt fences, or sediment basins.
- Keep excavated soil on the site where it will not collect into the street.
- Transfer excavated materials to dump trucks on the site, not in the street.
- Contaminated Soils
 - If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work



- Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

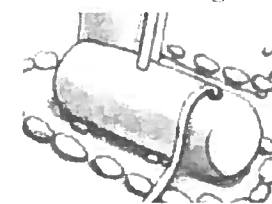
- Completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



- Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks offsite or in a contained area, so there is no discharge into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal offsite.

Dewatering



- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Divert run-on water from offsite away from all disturbed areas or otherwise ensure compliance.
- When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine whether testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Painting & Paint Removal



Painting cleanup

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or surface waters.
- For water-based paints, paint out brushes to the extent possible. Rinse to the sanitary sewer once you have gained permission from the local wastewater treatment authority. Never pour paint down a drain.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as hazardous waste.

Paint removal

- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyltin must be disposed of as hazardous waste.
- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.

Landscape Materials



- Contain stockpiled landscaping materials by storing them under tarps when they are not actively being used.
- Stack erodible landscape material on pallets. Cover or store these materials when they are not actively being used or applied.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

Storm drain polluters may be liable for fines of up to \$10,000 per day!



CLARK CIVIL ENGINEERING
DESIGN • CONSULTING • SURVEY
17700 Highway One, Hunt Valley Station, CA
PH: 415-285-4400 FAX: 310-372-0258



NEW RESIDENCE
898 CALAVERAS RIDGE DR.
MILPITAS, CALIFORNIA
SANTA CLARA COUNTY
APN: 029-06-038

CONSTRUCTION
BEST
MANAGEMENT
PRACTICES (SWPP)

REVISIONS	BY
-	-
-	-
-	-
-	-
-	-

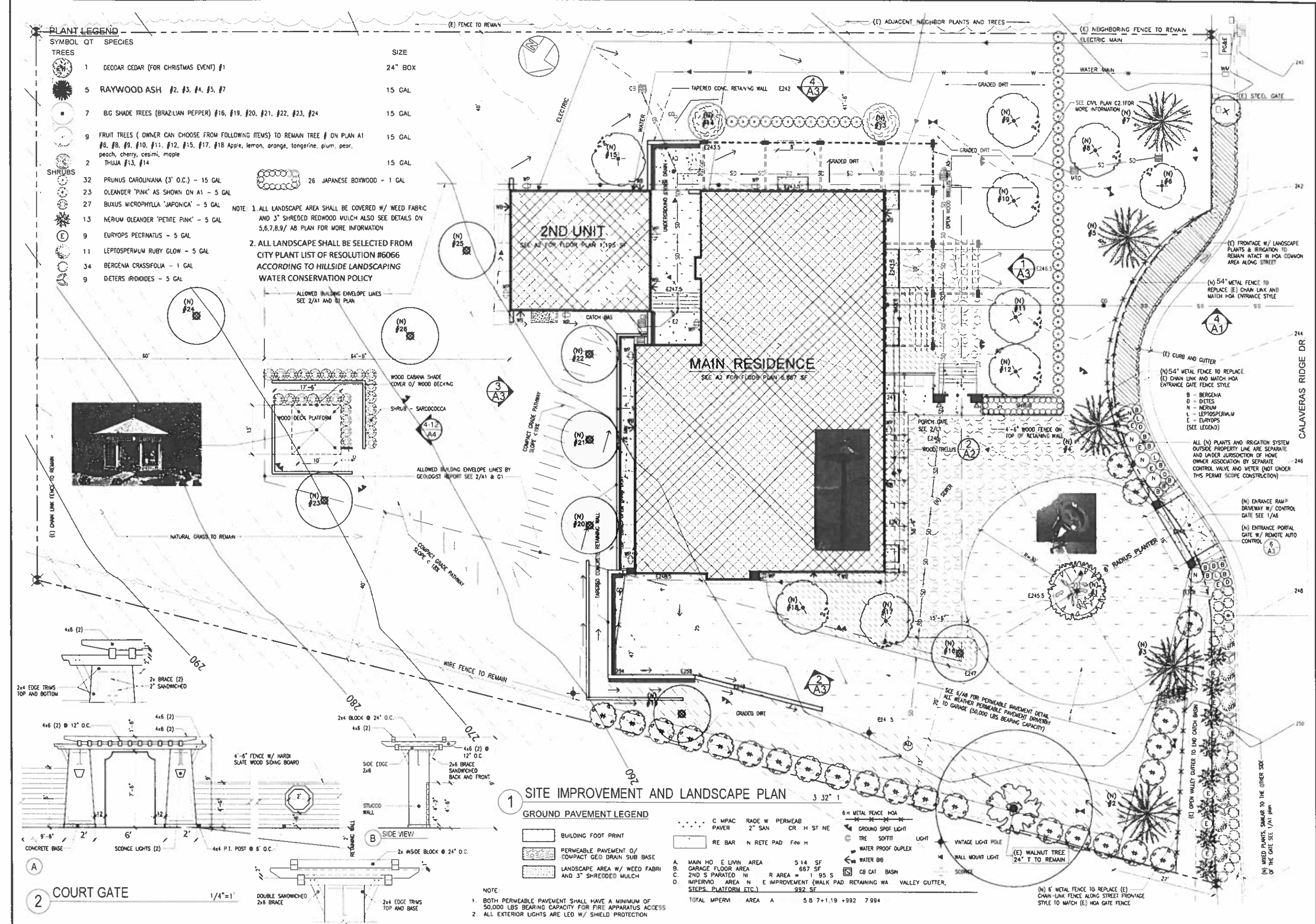
JOB NO: 218043
DATE: 2-1-19
SCALE: AS NOTED
DESIGN BY: WCC
DRAWN BY: DR
SHEET NO:

C4.3

PLANT LEGEND

SYMBOL	QT	SPECIES	SIZE
TREES			
1		DEODAR CEDAR (FOR CHRISTMAS EVENT) #1	24" BOX
5		RAYWOOD ASH #2, #3, #4, #5, #7	15 GAL
7		BIG SHADE TREES (BRAZILIAN PEPPER) #16, #19, #20, #21, #22, #23, #24	15 GAL
9		FRUIT TREES (OWNER CAN CHOOSE FROM FOLLOWING ITEMS) TO REMAIN TREE # ON PLAN A1 #6, #8, #9, #10, #11, #12, #15, #17, #18 Apple, lemon, orange, tangerine, plum, pear, peach, cherry, cesim, maple	15 GAL
2		THUJA #13, #14	15 GAL
SHRUBS			
32		PRUNUS CAROLINIANA (3' O.C.) - 15 GAL	
23		OLEANDER 'PINK' AS SHOWN ON A1 - 5 GAL	
27		BUXUS MICROPHYLLA 'JAPONICA' - 5 GAL	
13		NERIUM OLEANDER 'PETITE PINK' - 5 GAL	
9		EURYOPS PECTINATUS - 5 GAL	
11		LEPTOSPERMUM RUBY GLOW - 5 GAL	
34		BERGENA CRASSIFOLIA - 1 GAL	
9		DIETERS IRIDIODES - 5 GAL	
	26	JAPANESE BOXWOOD - 1 GAL	

NOTE: 1. ALL LANDSCAPE AREA SHALL BE COVERED W/ WEED FABRIC AND 3" SHREDED REDWOOD MULCH ALSO SEE DETAILS ON 5,6,7,8,9/ A8 PLAN FOR MORE INFORMATION
2. ALL LANDSCAPE SHALL BE SELECTED FROM CITY PLANT LIST OF RESOLUTION #6066 ACCORDING TO HILLSIDE LANDSCAPING WATER CONSERVATION POLICY



1 SITE IMPROVEMENT AND LANDSCAPE PLAN

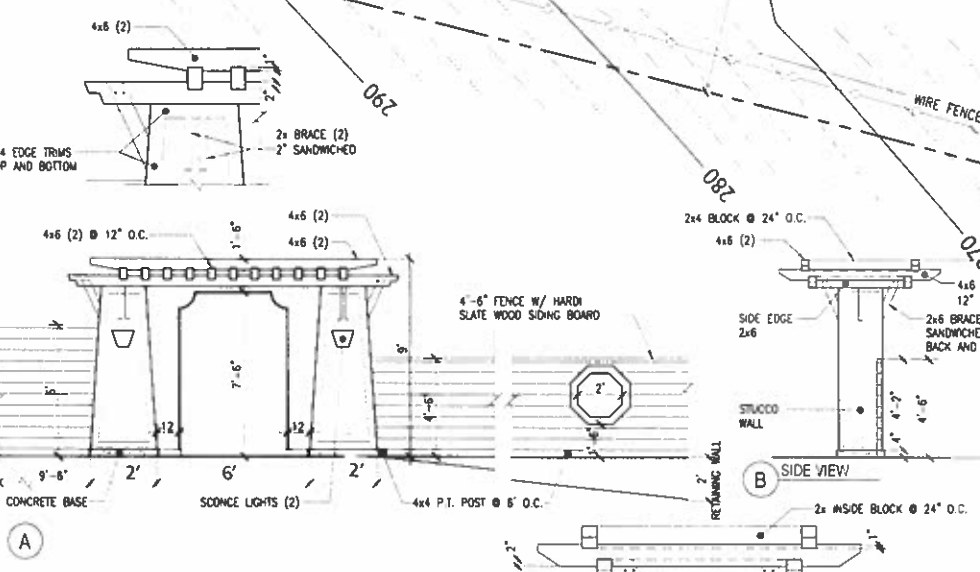
GROUND PAVEMENT LEGEND

[Symbol]	BUILDING FOOT PRINT
[Symbol]	PERMEABLE PAVEMENT O/ COMPACT GEO DRAIN SUB BASE
[Symbol]	LANDSCAPE AREA W/ WEED FABRI AND 3" SHREDED MULCH

[Symbol]	C MPAC PAV	RADE W PERMEAB	2" SAN	CR H ST NE
[Symbol]	RE BAR	N RETE PAD	FINI H	
[Symbol]	A. MAIN HO E LUVIN AREA	514 SF		
[Symbol]	B. GARAGE FLOOR AREA	667 SF		
[Symbol]	C. 2ND S PARATED NI	R AREA = 1,95 S		
[Symbol]	D. IMPERVIO AREA N E IMPROVEMENT (WALK PAD RETAINING WA STEPS, PLATFORM ETC.)	992 SF		
TOTAL IMPERVI AREA		A 5 8 7+1,19 +992 7994		

NOTE:
1. BOTH PERMEABLE PAVEMENT SHALL HAVE A MINIMUM OF 50,000 LBS BEARING CAPACITY FOR FIRE APPARATUS ACCESS
2. ALL EXTERIOR UGHTS ARE LED W/ SHIELD PROTECTION

2 COURT GATE



REVISIONS

NO.	DESCRIPTION

ALTA LANDSCAPES INC.
Design & Installation CA Lic. No. 800988
STEVE WONG - Landscape Architect No. 2087
30226 ARAGON PL. UNION CITY, CA 94587
Cell: (415) 377-8628 Fax: (415) 477-0387



PENG RESIDENCE
898 CALAVERAS RIDGE DR
MILPITAS, CA 95035

Sheet Title

Date 02.05.19

Scale

Drawn

Job

File

Sheet

L1

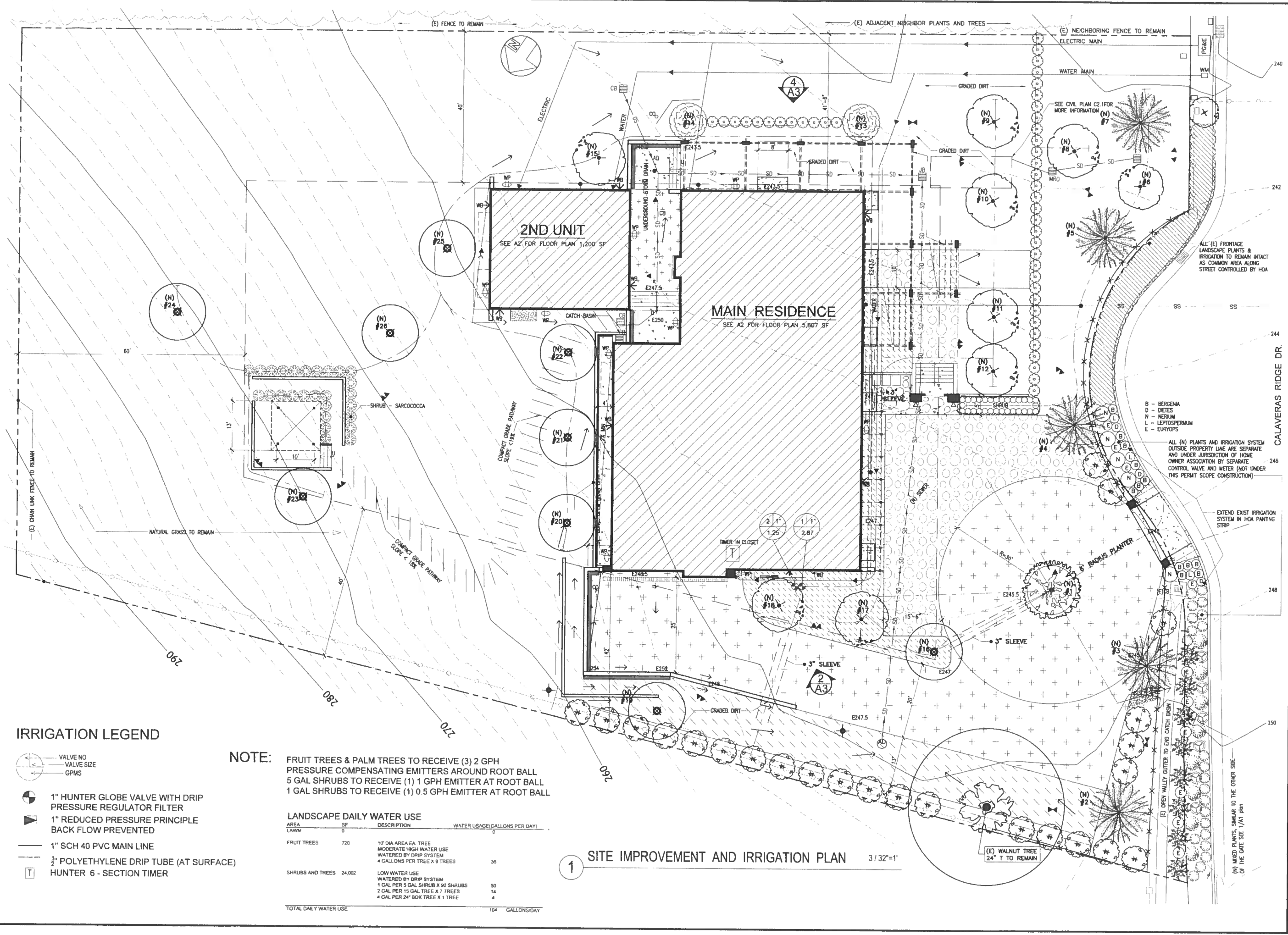
REVISIONS

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 STEVE WONG - Landscape Architect No. 2087
 30825 ARAOGON BLVD UNIT 200 CITY CA 94587
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PENG RESIDENCE
 898 CALAVERAS RIDGE DR
 MILPITAS, CA 95035

Sheet Title
Date 02-05-19
Scale
Drawn
Job
File
Sheet
L2



IRRIGATION LEGEND

- VALVE NO
- VALVE SIZE
- GPM
- 1" HUNTER GLOBE VALVE WITH DRIP PRESSURE REGULATOR FILTER
- 1" REDUCED PRESSURE PRINCIPLE BACK FLOW PREVENTED
- 1" SCH 40 PVC MAIN LINE
- 3/4" POLYETHYLENE DRIP TUBE (AT SURFACE)
- HUNTER 6 - SECTION TIMER

NOTE: FRUIT TREES & PALM TREES TO RECEIVE (3) 2 GPH PRESSURE COMPENSATING EMITTERS AROUND ROOT BALL
 5 GAL SHRUBS TO RECEIVE (1) 1 GPH EMITTER AT ROOT BALL
 1 GAL SHRUBS TO RECEIVE (1) 0.5 GPH EMITTER AT ROOT BALL

LANDSCAPE DAILY WATER USE

AREA LAWN	SF	DESCRIPTION	WATER USAGE (GALLONS PER DAY)
FRUIT TREES	720	10' DIA AREA EA. TREE MODERATE HIGH WATER USE WATERED BY DRIP SYSTEM 4 GALLONS PER TREE X 9 TREES	36
SHRUBS AND TREES	24,002	LOW WATER USE WATERED BY DRIP SYSTEM 1 GAL PER 5 GAL SHRUB X 92 SHRUBS 2 GAL PER 15 GAL TREE X 7 TREES 4 GAL PER 24" BOX TREE X 1 TREE	50 14 4
TOTAL DAILY WATER USE			104 GALLONS/DAY

1 SITE IMPROVEMENT AND IRRIGATION PLAN 3/32"=1'

ALTA LANDSCAPES INC.
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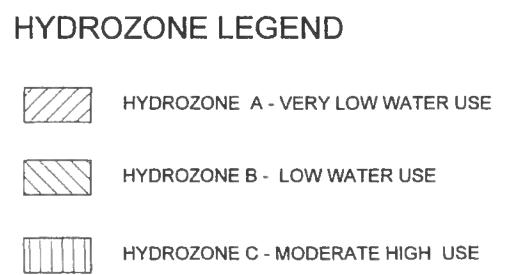
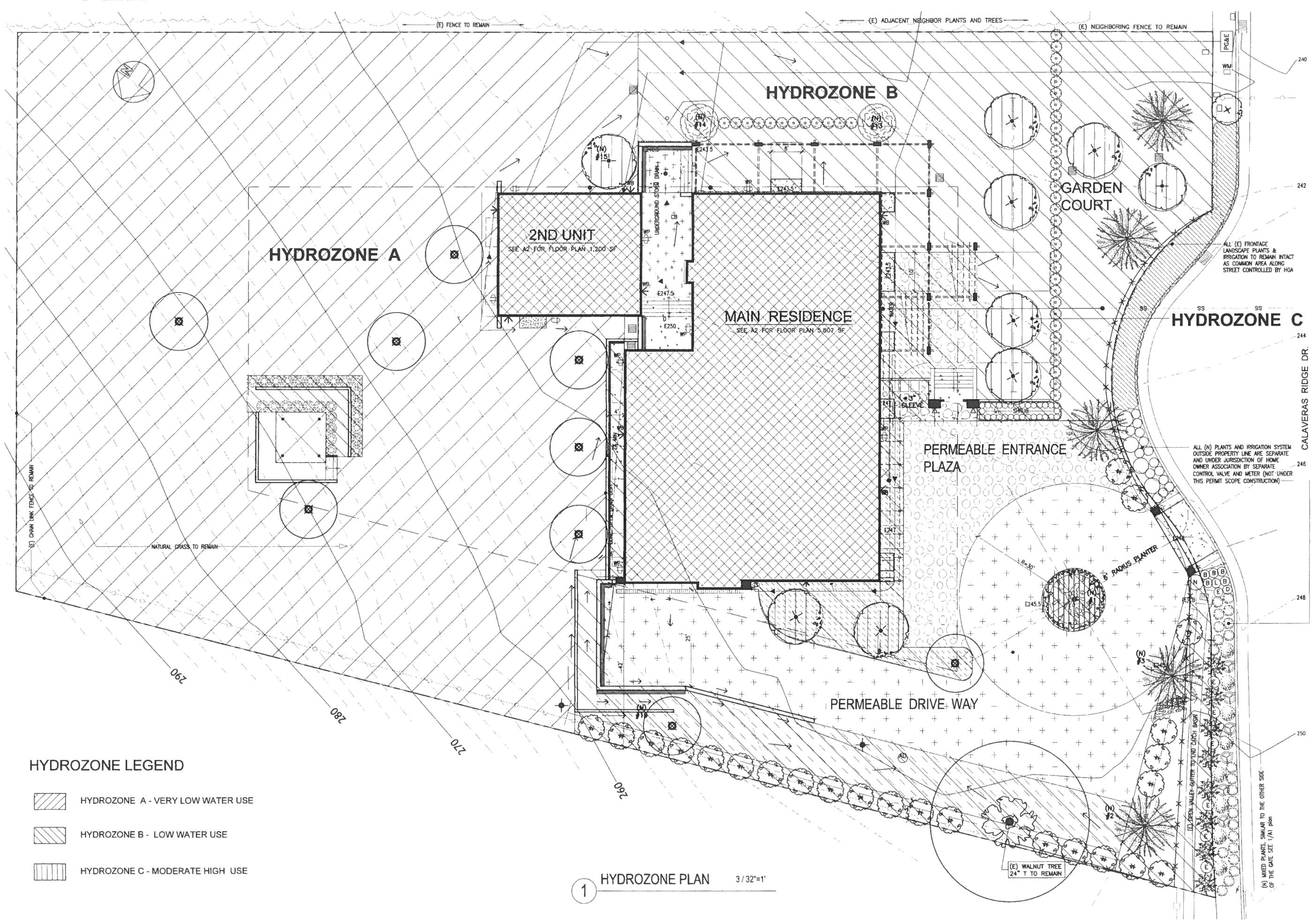


ALL DRAWINGS AND MATERIALS HEREIN ARE THE ORIGINAL AND UNREVISED WORK OF THE DESIGNER. ANY CHANGES OR MODIFICATIONS SHALL BE MADE BY THE DESIGNER OR HIS AUTHORIZED REPRESENTATIVE. THE DESIGNER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING PLANTS AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FENCES AND BOUNDARIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING DRIVEWAYS AND WALKWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING PLANTS AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FENCES AND BOUNDARIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING DRIVEWAYS AND WALKWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING LANDSCAPE FEATURES.

PENG RESIDENCE
 898 CALAVERAS RIDGE DR
 MILPITAS, CA 95035

Sheet Title
 Date 02-05-19
 Scale
 Drawn
 Job
 File
 Sheet

L3



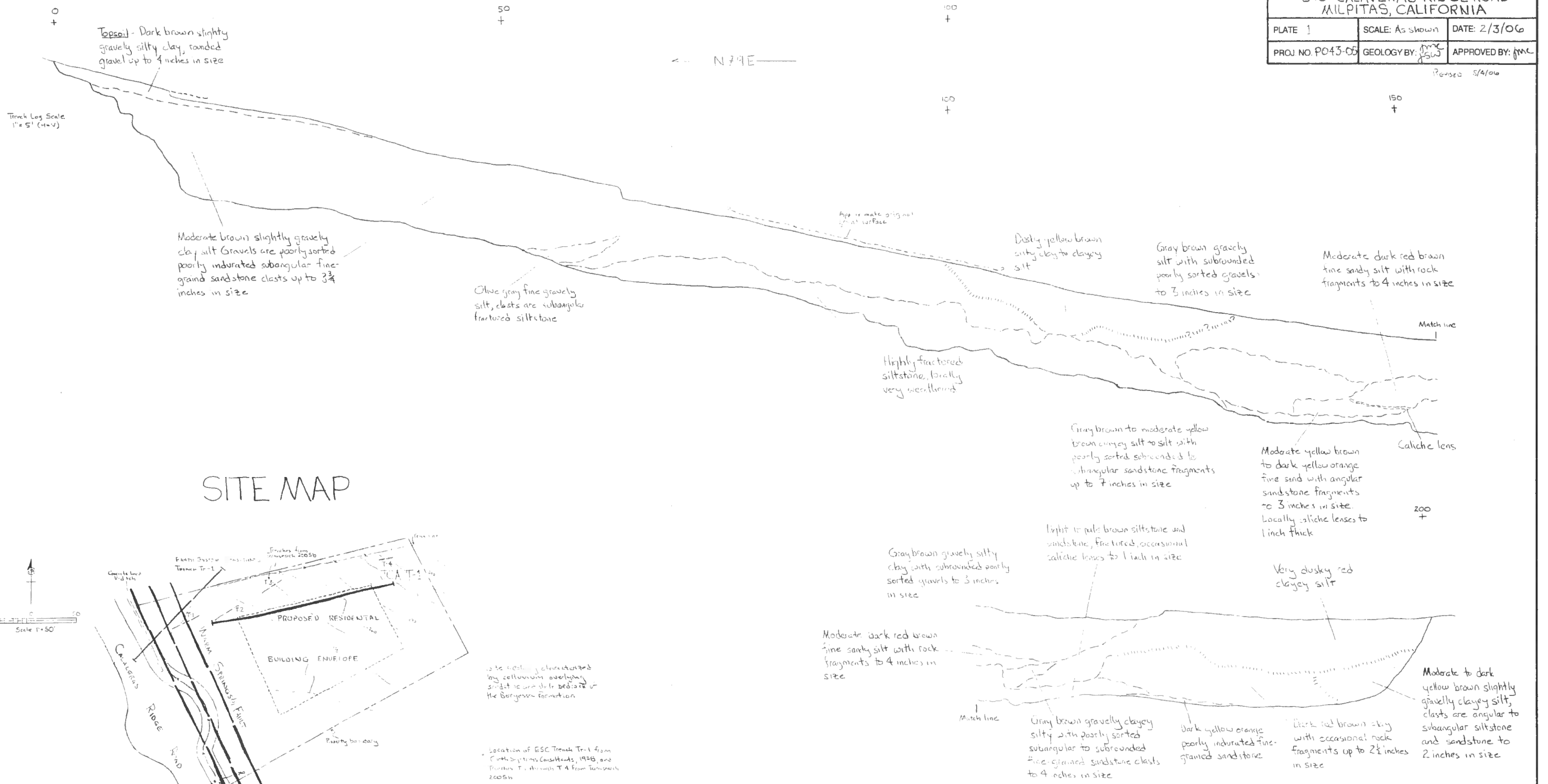
1 HYDROZONE PLAN 3/32"=1'

GEOLOGIC LOG TRENCH JCA TT-1

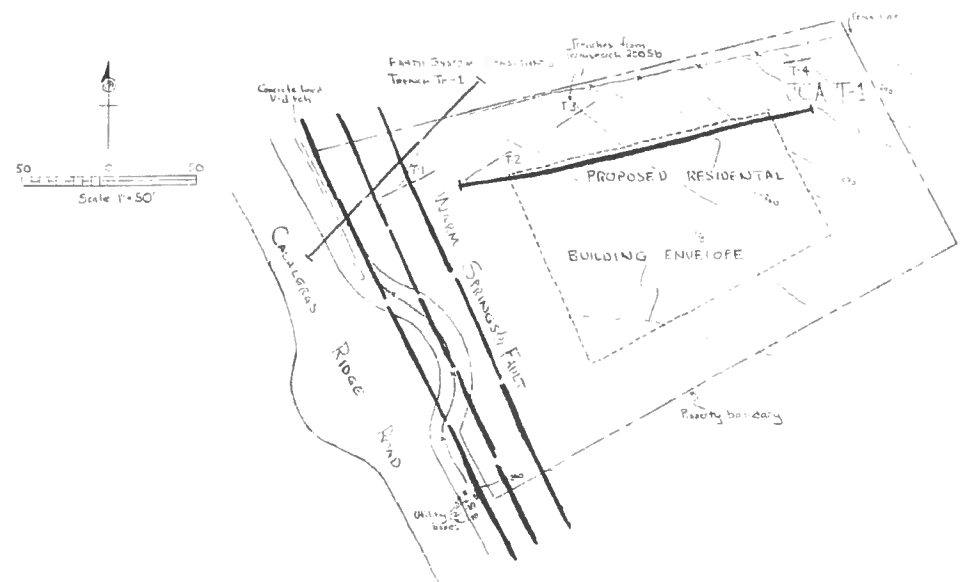
SITE MAP
 AND
 GEOLOGIC LOG TRENCH JCA TT-1
 FAULT INVESTIGATION
 898 CALAVERAS RIDGE ROAD
 MILPITAS, CALIFORNIA

PLATE 1	SCALE: As shown	DATE: 2/3/06
PROJ. NO. P043-05	GEOLOGY BY: JMC / JSW	APPROVED BY: JMC

Revised 5/4/06



SITE MAP



soil is locally characterized by columnar weathering siltstone is under the bedrock of the Bergess formation.

Location of ESC Trench Tr-1 from California Consultants, 1998, and Project T-1 through T-4 from Trenches 2055b

TOPOGRAPHICAL LAND SURVEY

BEING A SURVEY OF
 LOT 4, TRACT NO. 7328
 CALAVERAS RIDGE ESTATES, 535 MAPS 8-9
 SANTA CLARA COUNTY, CALIFORNIA
 APN: 029-06-038 JULY 2019
 CONSISTING OF ONE SHEET



American Baseline Company

2464 El Camino Real, 117, Santa Clara, CA 95051
 408/394-9281, manager.ambaco@gmail.com

NOTES:

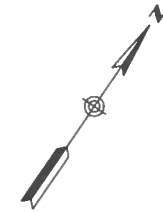
1. SITE: LOT 4, TRACT NO. 7328, CALAVERAS RIDGE ESTATES, SANTA CLARA COUNTY, CA 94920
2. TOTAL ACREAGE: 55,323 SQ. FT., 1.27 AC.
3. ALL DISTANCES ARE IN FEET AND DECIMALS THEREOF.
4. THE UTILITIES SHOWN ON THIS MAP ARE DERIVED FROM RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON THIS MAP, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. THIS MAP REPRESENTS TOPOGRAPHY OF THE SURFACE FEATURES ONLY.
5. ALL TREE DIMENSIONS ARE THE DIAMETER AT 46" ABOVE GRADE. SPECIES OF TREES TO BE DETERMINED/VERIFIED BY AN ARBORIST.
6. A CURRENT TITLE REPORT FOR THE SUBJECT PROPERTY HAS NOT BEEN EXAMINED BY AMERICAN BASELINE COMPANY. OTHER EASEMENTS OF RECORD MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.

SURVEYOR'S STATEMENT:

THIS MAP CORRECTLY REPRESENTS A TOPOGRAPHICAL SURVEY MADE BY ME OR BY RESPONSIBLE CHARGES UNDER MY DIRECTION IN CONFORMANCE WITH THE PROFESSION OF LAND SURVEYING AT THE REQUEST OF KC ASSOCIATES IN APRIL 2018.

Brian G. Hamilton
 SIGNATURE

6/2/19
 DATE



SCALE: 1 Inch = 16 Feet

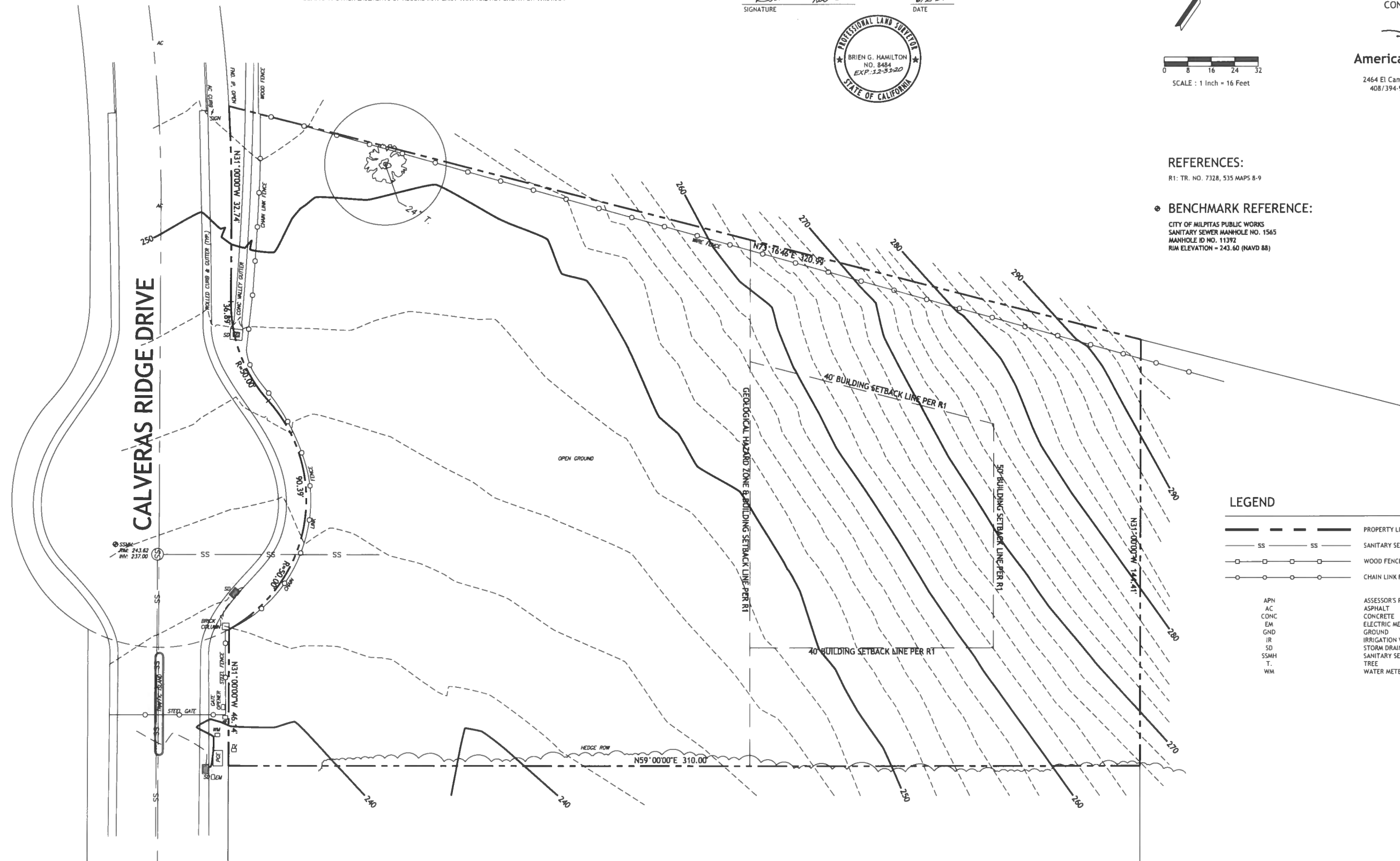
REFERENCES:

R1: TR. NO. 7328, 535 MAPS 8-9

BENCHMARK REFERENCE:

CITY OF MILPITAS PUBLIC WORKS
 SANITARY SEWER MANHOLE NO. 1565
 MANHOLE ID NO. 11392
 RIM ELEVATION = 243.60 (NAVD 88)

CALVERAS RIDGE DRIVE



LEGEND

	PROPERTY LINE
	SS
	SANITARY SEWER LINE
	WOOD FENCE
	CHAIN LINK FENCE
APN	ASSESSOR'S PARCEL NUMBER
AC	ASPHALT
CONC	CONCRETE
EM	ELECTRIC METER
GND	GROUND
IR	IRRIGATION VALVE
SD	STORM DRAIN
SSMH	SANITARY SEWER MANHOLE
T.	TREE
WM	WATER METER