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NOTES, SCHEDULES, AND DETAILS

CVEAS JOB # : _____

DATE: 3/1/2023

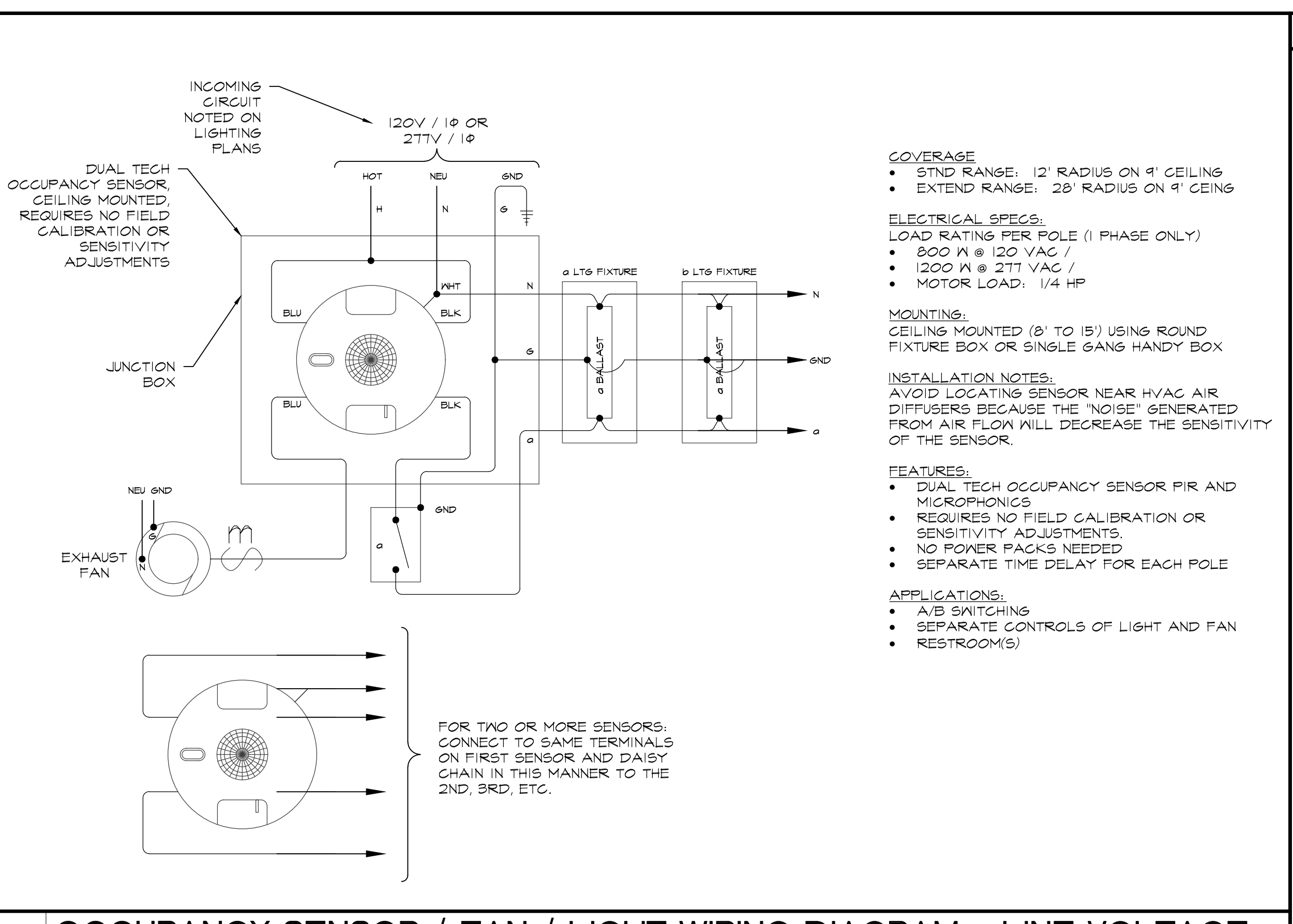
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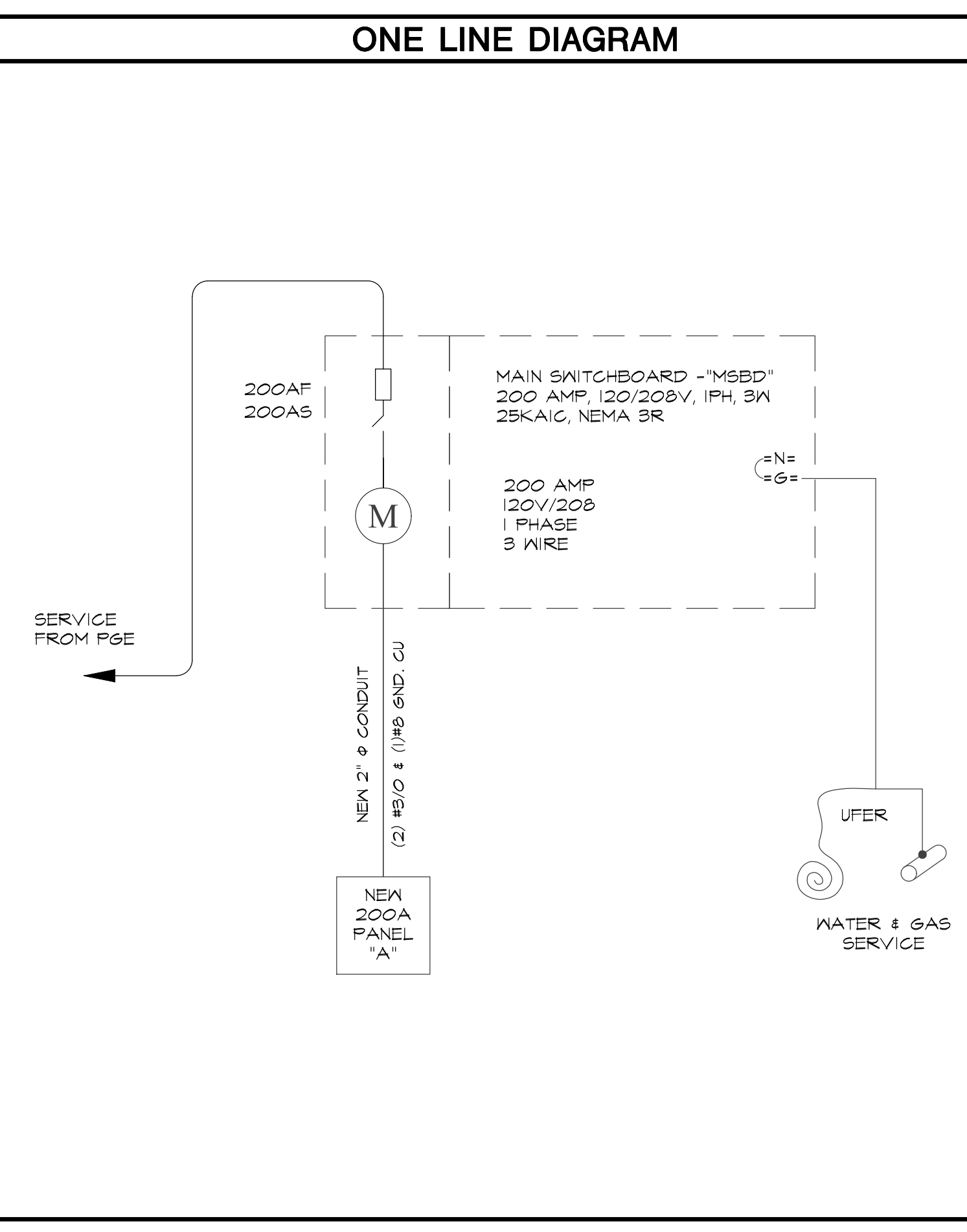
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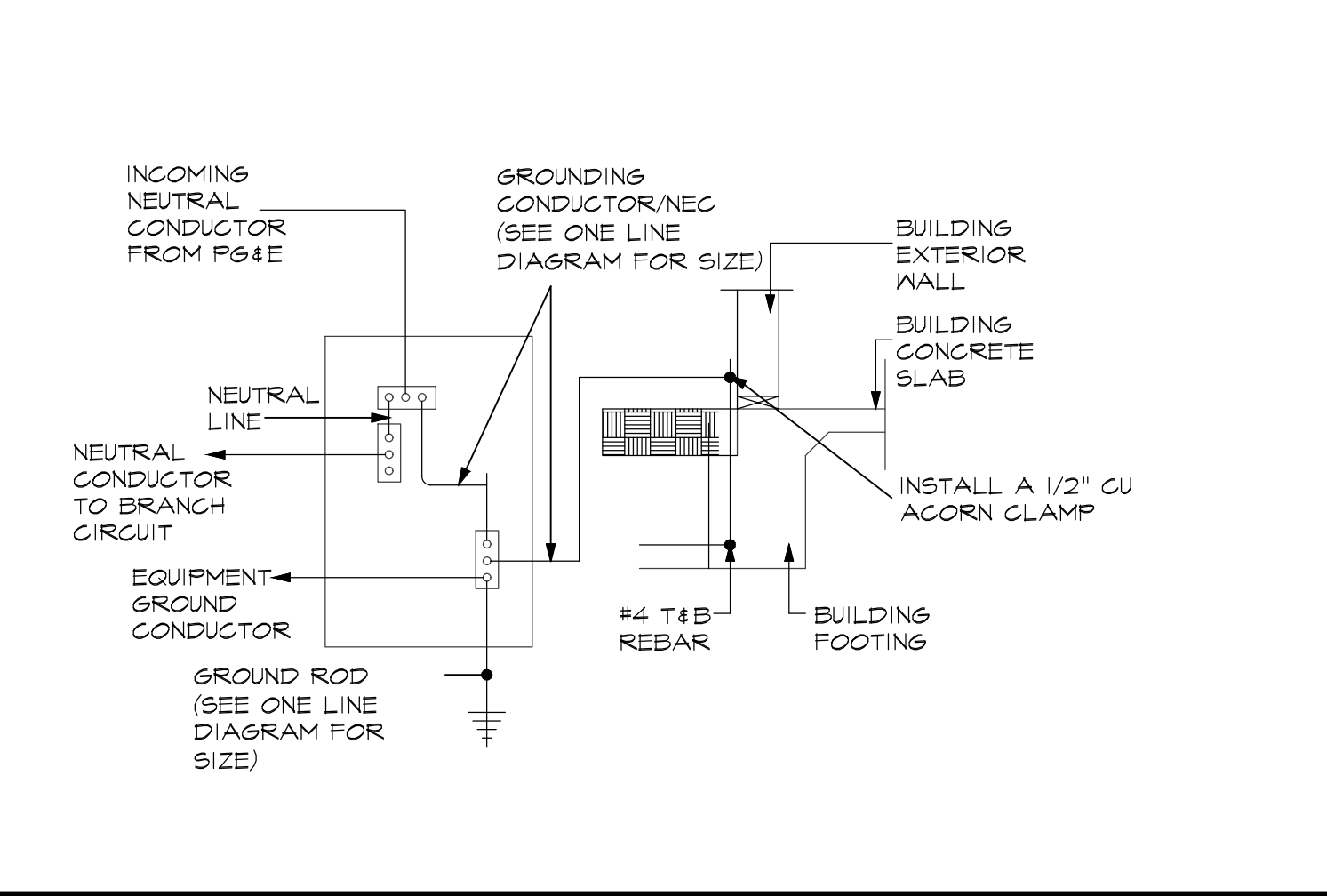
A OCCUPANCY SENSOR / FAN / LIGHT WIRING DIAGRAM - LINE VOLTAGE
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ELECTRICAL NOTES

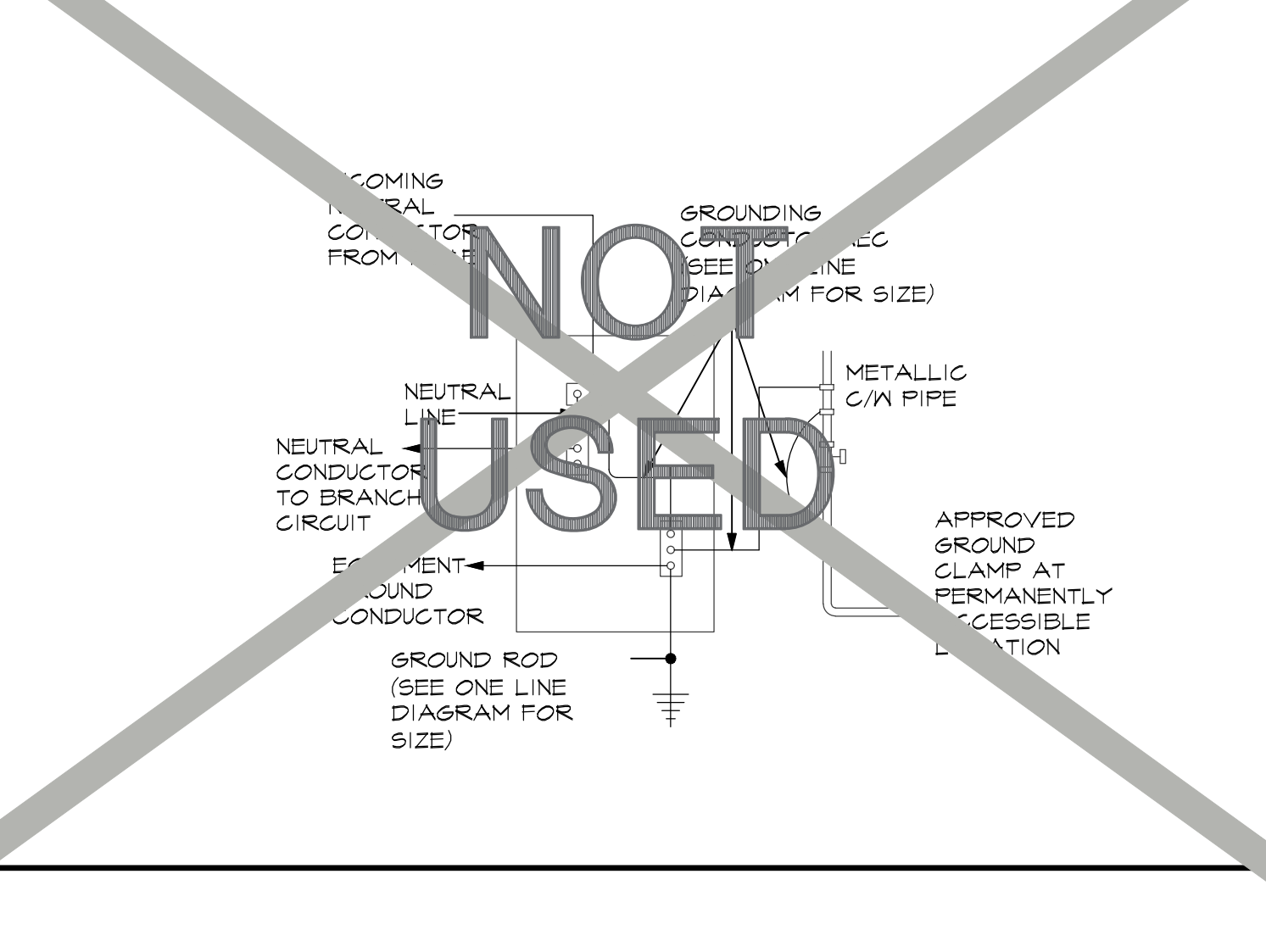
- ALL RECEPTACLES MUST BE LOCATED BETWEEN 15" - 48" ABOVE FINISHED FLOOR AND LIGHTING SWITCHES 48" ABOVE THE FINISHED FLOOR OR PLATFORM.
- ALL NEW OUTLETS (RECEPTACLES, LIGHTING, ETC.) IN THE FAMILY, DINING, LIVING, BEDROOMS, HALLWAYS, ETC. SHALL BE ON CIRCUITS PROTECTED WITH A COMBINATION ARC-FAULT CIRCUIT INTERRUPTER (AFCI) (2016 CBC 210.12)
- BATHROOM LIGHT(S) AND GFCI RECEPTACLE(S) SHALL BE ON A SINGLE SEPARATE CIRCUIT.
- BATHROOM LIGHTS SHALL BE FLUORESCENT OR HIGH EFFICIENCY LIGHT FIXTURE.
- RECESSED LIGHTS IN INSULATED CEILING MUST HAVE THE FOLLOWING REQUIREMENTS:
5.1. RATED I.C.
5.2. CERTIFIED AIR TIGHT.
5.3. HAVE SEALED GASKET OR CAULK BETWEEN HOUSING AND CEILING.
- ALL FIXTURES, OUTLETS, AND EQUIPMENT MOUNTED IN / ON THE BUILDING EXTERIOR SHALL BE UL APPROVED FOR WET LOCATION INSTALLATION. PARTIALLY PROTECTED FIXTURES, DEVICES, AND EQUIPMENT MOUNTED SHALL BE UL APPROVED FOR DAMP LOCATION INSTALLATION. RECEPTACLES IN DAMP OR WET LOCATIONS SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 406.8.
- PROVIDE GFCI RECEPTACLES IN RESTROOMS ADJACENT TO EACH BASIN LOCATION, AND OUTDOORS AT THE FRONT AND REAR OF THE BUILDING.
- OUTDOOR RECEPTACLES MUST BE WEATHERPROOFED AND GFCI.
- PROVIDE SWITCHED LIGHTING FIXTURES AT ALL EXIT DOORS.
- WORKMANSHIP SHALL BE OF THE HIGHEST ORDER, PER NEC ARTICLE 100.12. ANY DEFECTIVE OR DAMAGED EQUIPMENT SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE APPROVAL OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH NEC STANDARDS.
- ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. ALL CONDUIT SHALL BE ROUTED AND CONCEALED UNLESS NOTED ON PLAN OR APPROVED BY THE ARCHITECT/ENGINEER. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE ELECTRICAL CONTRACTOR AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL PLANS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL EQUIPMENT, ITEMS, OR FEATURES.
- COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF CONDUITS WITH FRAMING CONTRACTOR PRIOR TO BEGINNING ANY ROUGH-IN WORK FOR SPECIFIC EQUIPMENT.
- WHERE EXISTING CONDUIT IS BEING REUSED ON THE SITE, NEW CONDUCTORS SHALL BE PULLED CONTINUOUS AND UNSPLICED THROUGH THE EXISTING RACEWAY, RE-PULLING EXISTING CONDUCTORS AS REQUIRED AND PROVIDE A FULL ROPE IN THE EXISTING CONDUIT.
- INSTALL ELECTRICAL EQUIPMENT, LIGHTING, AND RECEPTACLES PER LATEST NEC, CBC.
- INSTALL NEUTRAL PER EACH CIRCUIT SEPARATELY.
- 120 VOLT CIRCUIT SHALL BE #12 THHN MIN.
- LIGHTING AND CONTROL SHALL CONFORM TO 2016 BUILDING ENERGY EFFICIENCY STANDARDS.
- ALL CONDUITS SHALL BE EQUIPPED WITH EQUIPMENT GROUND CONDUCTOR PER NEC ARTICLE 250.
- A FOUR WIRE BRANCH CIRCUIT IS REQUIRED FOR ALL 240 VOLT CIRCUITS SERVING COOKING EQUIPMENT AND CLOTHES DRYER LOCATIONS.
- ALL WIRING SHALL BE IN METALLIC RACEWAY.
- MAIN SERVICE AND ALL ELECTRICAL EQUIPMENT (SWITCHGEAR, DISTRIBUTION PANELS) SHALL BE LOCALLY GROUNDED PER NEG ARTICLE 250.
- PROVIDE SOLAR PANEL READY SYSTEM INCORPORATED INTO ELECTRICAL - TO BE DETERMINED BY OTHERS AND SEPARATE FUTURE SUBMITTAL.
- ALL LIGHTING ACCEPTANCE TESTING REQUIREMENTS SHALL BE CHECKED BY CONTRACTOR AND AS FOLLOWS:
23.1. SHALL BE CHECKED FOR PROPER ASSEMBLY, PROPER LOUVERS OR LENSE, PROPER LAMPS, PROPER BALLASTS, STRAIGHT ROW ALIGNMENT, PROPER AIMING, AND THE ABSENCE OF LIGHT LEAKS.
- PROVIDE DESIGNATED 20 AMP CIRCUITS FOR THE FOLLOWING CIRCUITRY:
24.1. THE TWO SMALL APPLIANCE BRANCH CIRCUITS SERVING THE KITCHEN.
24.2. BATHROOMS.
24.3. LAUNDRY ROOMS.
24.4. BUILT-IN MICROWAVE OVENS.
- A WORKING CLEARANCE OF 3'-0" IN FRONT OF ALL DISTRIBUTION PANELS AND ELECTRICAL EQUIPMENT MUST BE MAINTAINED.
- PROVIDE GFCI RECEPTACLES IN RESTROOMS ADJACENT TO EACH BASIN LOCATION, AND OUTDOORS AT THE FRONT AND REAR OF THE BUILDING.
- PROVIDE A STANDARD 125-VOLT GROUND FAULT CIRCUIT INTERRUPTER (GFCI) SINGLE PHASE 20A RATED RECEPTACLE OUTLET AT AN ACCESSIBLE LOCATION, ON THE SAME LEVEL, WITHIN 25 FEET OF ALL EXTERIOR MOUNTED HVAC EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE DISCONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECT MEANS PER NEG 210.6(3).
- BEFORE AN OCCUPANCY PERMIT IS GRANTED FOR ANY NEWLY CONSTRUCTED BUILDING OR AREA, OR A NEW LIGHTING SYSTEM SERVING A BUILDING, AREA, OR SITE IS OPERATED FOR NORMAL USE, ALL INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING, AREA, OR SITE SHALL BE CERTIFIED AS MEETING THE ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE IN ACCORDANCE WITH SECTION 100.4. A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCING AGENCY UNDER SECTION 10-105(a) OF PART 1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMPLETION OF REQUIRED ACCEPTANCE FORMS. IF GENERAL CONTRACTOR IS NOT LICENSED FOR THIS WORK, H.G. SHALL HIRE A LICENSED THIRD PARTY.
- LIGHTING FIXTURES IN CLOTHES CLOSET SHALL COMPLY WITH CURRENT CBC SECTION 410.2 AND 410.16.



UFER GROUNDING SYSTEM



GROUNDING SYSTEM



NEW ELECTRICAL

ELECTRICAL LOAD CALCULATIONS

COMPUTED LOAD:	New Panel "D"
Building Area:	
New First Floor Area:	1,003.0 SF
New 2 Car Garage:	576.0 SF
Covered Porch Area:	50.0 SF
Covered Patio Area:	206.8 SF
MIN. NUMBER OF BRANCH CIRCUITS REQUIRED	
General Lighting Load @ 3 Volt-amperes per sq.ft.	5,507 W
MIN. SIZE FEEDER REQUIRED	
SMALL APPLIANCE LOAD	3,000 W
DISHWASHER	1,200 W
RANGE	7,100 W
OVEN	4,800 W
DRYER	5,000 W
WASHER	1,500 W
DISPOSAL	600 W
TOTAL	28,707 W
1ST 10,000W @ 100%	10,000 W
	18,707 W
REMAINING WATTAGE @ 40%	7,483 W
	10,000 W
TOTAL RATING	17,483 W

NEW PANEL "A": $\frac{17,483 \text{ W}}{208 \text{ V}} = 49 + 40 + 40 = 129$

NEW AMPERAGE FOR HVAC #1 (MAX) 40 AMPS

NEW AMPERAGE FOR EV CHARGER (MAX) 40 AMPS

PROVIDE 150 AMP PANEL "C"

GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

NEW ELECTRICAL

ELECTRICAL LOAD CALCULATIONS

COMPUTED LOAD:	New Panel "A"	New Panel "B"
Building Area:		
New First Floor Area:	5,443.3 SF	
New 6 Car Garage:	2,098.3 SF	
New Second Floor Area:		2,348.5 SF
MIN. NUMBER OF BRANCH CIRCUITS REQUIRED		
General Lighting Load @ 3 Volt-amperes per sq.ft.	26,252 W	10,184 W
MIN. SIZE FEEDER REQUIRED		
SMALL APPLIANCE LOAD	3,000 W	3,000 W
DISHWASHER	1,200 W	
RANGE	7,100 W	
OVEN	4,800 W	
DRYER	5,000 W	
WASHER	1,500 W	
DISPOSAL	600 W	
WATER WELL PUMP	5,700 W	
TOTAL	55,152 W	13,184 W
1ST 10,000W @ 100%	10,000 W	10,000 W
	45,152 W	3,184 W
REMAINING WATTAGE @ 40%	18,061 W	1,273 W
	10,000 W	10,000 W
NEW PANEL 'A'	28,061 W	
NEW PANEL 'B'		11,273 W
FUTURE SUBPANEL "C"		20,800 W
TOTAL RATING	28,061 W	32,073 W

NEW PANEL "A": $\frac{28,061 \text{ W}}{208 \text{ V}} = 78 + 40 + 40 + 40 = 198$ AMPS

NEW AMPERAGE FOR HVAC #1 (MAX) 40 AMPS

NEW AMPERAGE FOR HVAC #2 (MAX) 40 AMPS

ELECTRIC VEHICLE CHARGING STATION (EV) 40 AMPS

PROVIDE 200 AMP PANEL "A" FROM MAIN METER GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

NEW PANEL "B": $\frac{32,073 \text{ W}}{208 \text{ V}} = 89 + 40 + 40 = 169$ AMPS

NEW AMPERAGE FOR HVAC #3 (MAX) 40 AMPS

NEW AMPERAGE FOR HVAC #4 (MAX) 40 AMPS

PROVIDE 200 AMP PANEL "B" FROM MAIN METER GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

PROVIDE 100 AMP SUBPANEL "C" FOR FUTURE LANDSCAPE LIGHTING, IRRIGATION, ETC. FROM PANEL "B" GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

NEW ELECTRICAL

ELECTRICAL LOAD CALCULATIONS

COMPUTED LOAD:	New Panel "A"	New Panel "B"
Building Area:		
New First Floor Area:	5,443.3 SF	
New 6 Car Garage:	2,098.3 SF	
New Second Floor Area:		2,348.5 SF
MIN. NUMBER OF BRANCH CIRCUITS REQUIRED		
General Lighting Load @ 3 Volt-amperes per sq.ft.	26,252 W	10,184 W
MIN. SIZE FEEDER REQUIRED		
SMALL APPLIANCE LOAD	3,000 W	3,000 W
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DRYER	5,000 W	
WASHER	1,500 W	
DISPOSAL	600 W	
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	10,000 W	10,000 W
NEW PANEL 'A'	28,061 W	
NEW PANEL 'B'		11,273 W
FUTURE SUBPANEL "C"		20,800 W
TOTAL RATING	28,061 W	32,073 W

NEW PANEL "A": $\frac{28,061 \text{ W}}{208 \text{ V}} = 78 + 40 + 40 + 40 = 198$ AMPS

NEW AMPERAGE FOR HVAC #1 (MAX) 40 AMPS

NEW AMPERAGE FOR HVAC #2 (MAX) 40 AMPS

ELECTRIC VEHICLE CHARGING STATION (EV) 40 AMPS

PROVIDE 200 AMP PANEL "A" FROM MAIN METER GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

NEW PANEL "B": $\frac{32,073 \text{ W}}{208 \text{ V}} = 89 + 40 + 40 = 169$ AMPS

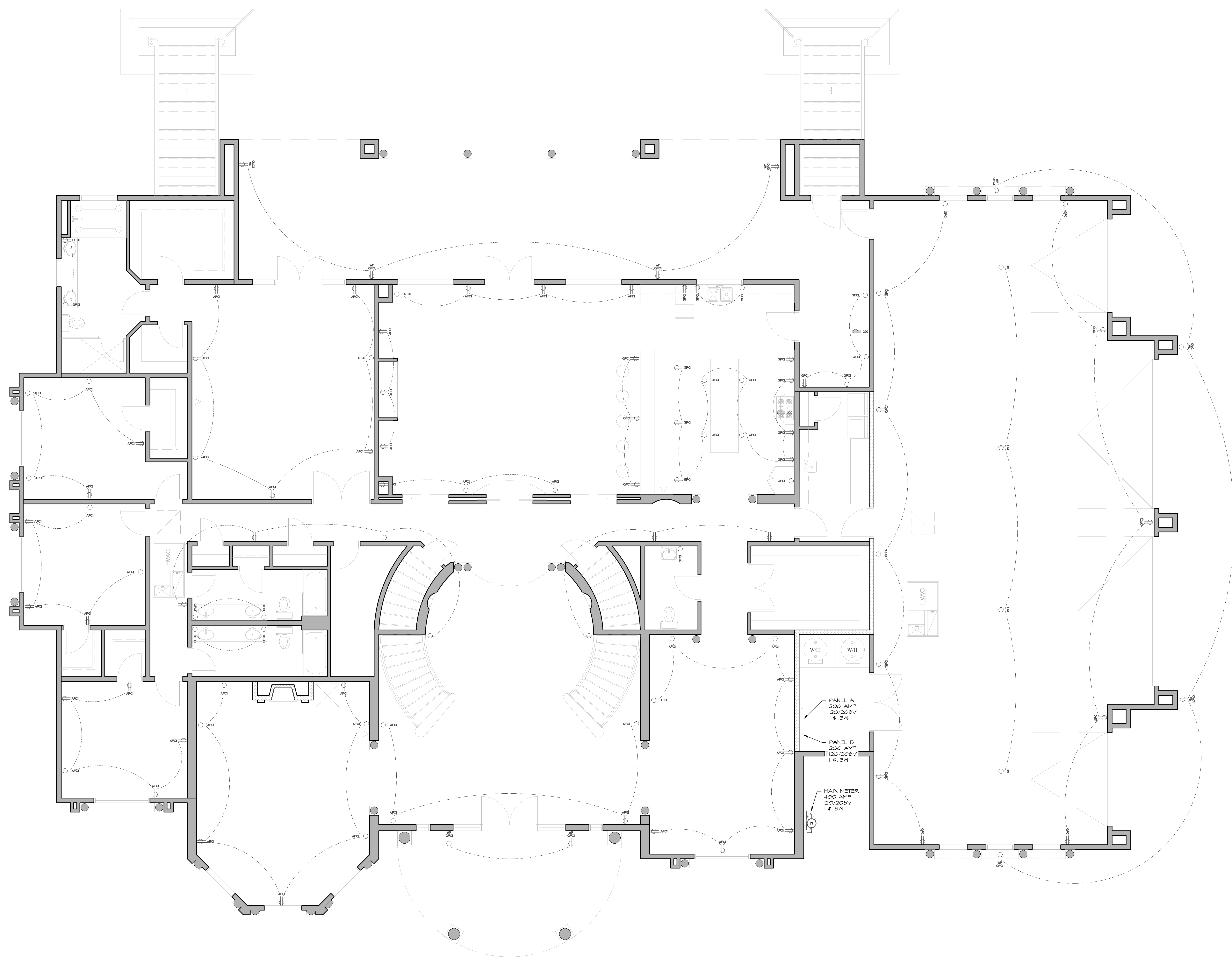
NEW AMPERAGE FOR HVAC #3 (MAX) 40 AMPS

NEW AMPERAGE FOR HVAC #4 (MAX) 40 AMPS

PROVIDE 200 AMP PANEL "B" FROM MAIN METER GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

PROVIDE 100 AMP SUBPANEL "C" FOR FUTURE LANDSCAPE LIGHTING, IRRIGATION, ETC. FROM PANEL "B" GROUNDED TO UFER GROUND #4 REBAR X 20 FT.

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF CVEAS OR CONSULTANTS, AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE REPRODUCED OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF CVEAS OR CONSULTANTS. ANY REPRODUCTION OR USE THEREOF IS NOT PERMITTED WITHOUT THE WRITTEN PERMISSION OF CVEAS OR CONSULTANTS.



POWER PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"

PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043

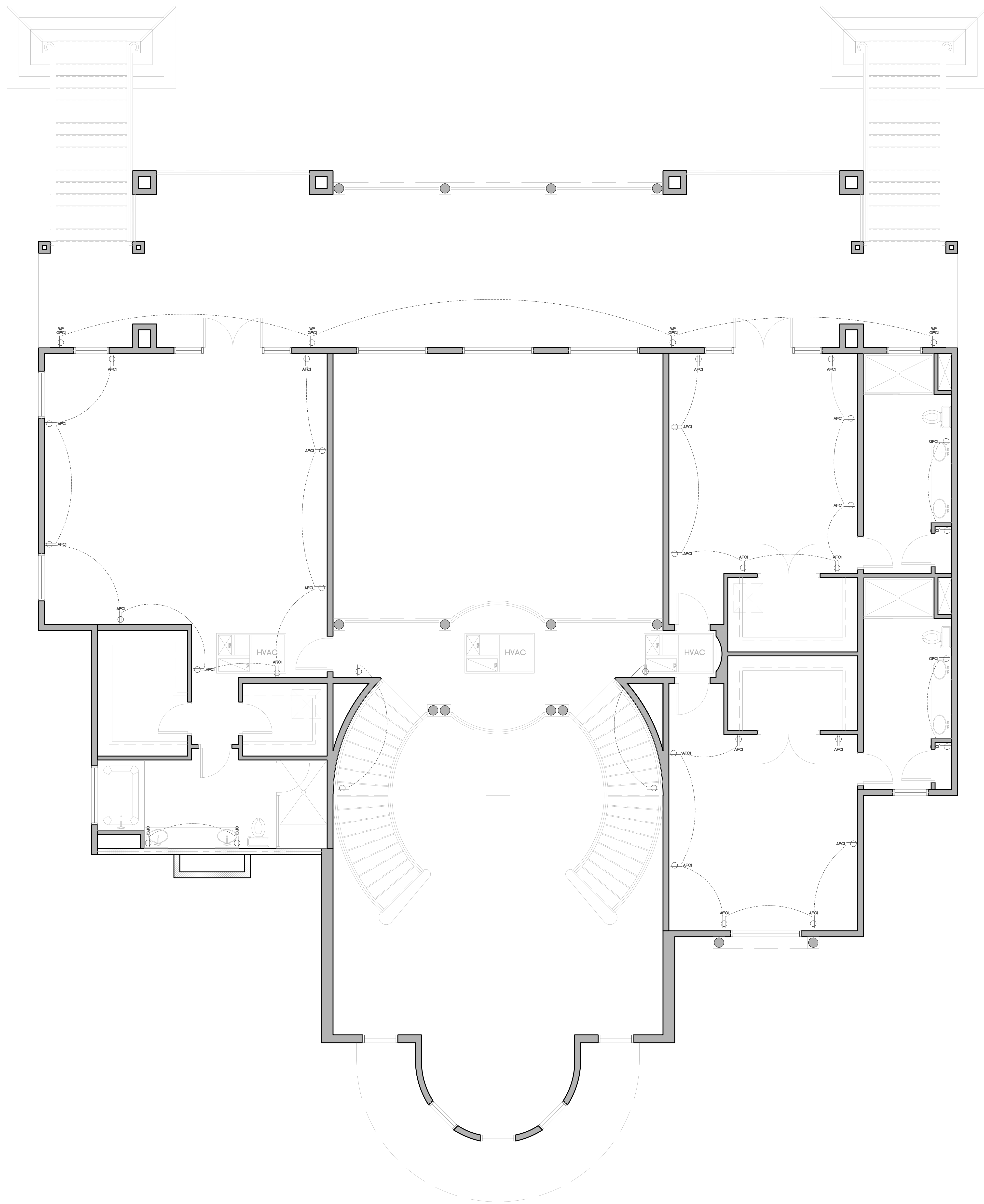
REGISTERED PROFESSIONAL ENGINEER
No. C 77875
Exp. 06-30-23
CIVIL
STATE OF CALIFORNIA
DATE SIGNED: 2/2/2023

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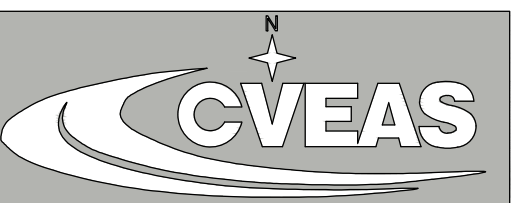
POWER PLAN
FIRST FLOOR

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POWER PLAN - SECOND FLOOR
SCALE: 1/4" = 1'-0"



CENTRAL VALLEY
ENGINEERING & SURVEYING, INC.

2511 LOGAN STREET Tel. (559) 841-8811
SELMA, CA 93662 Fax (559) 841-8815
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CIVIL ENGINEERING • LAND SURVEYING • CONSULTING • STRUCTURAL DESIGN • ARCHITECTURAL DRAFTING • COMMERCIAL & RESIDENTIAL BUILDING DESIGN • PLANNING & PROJECT MANAGEMENT

PROJECT
**NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043**



DATE SIGNED: 2/2/2023

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POWER PLAN
SECOND FLOOR

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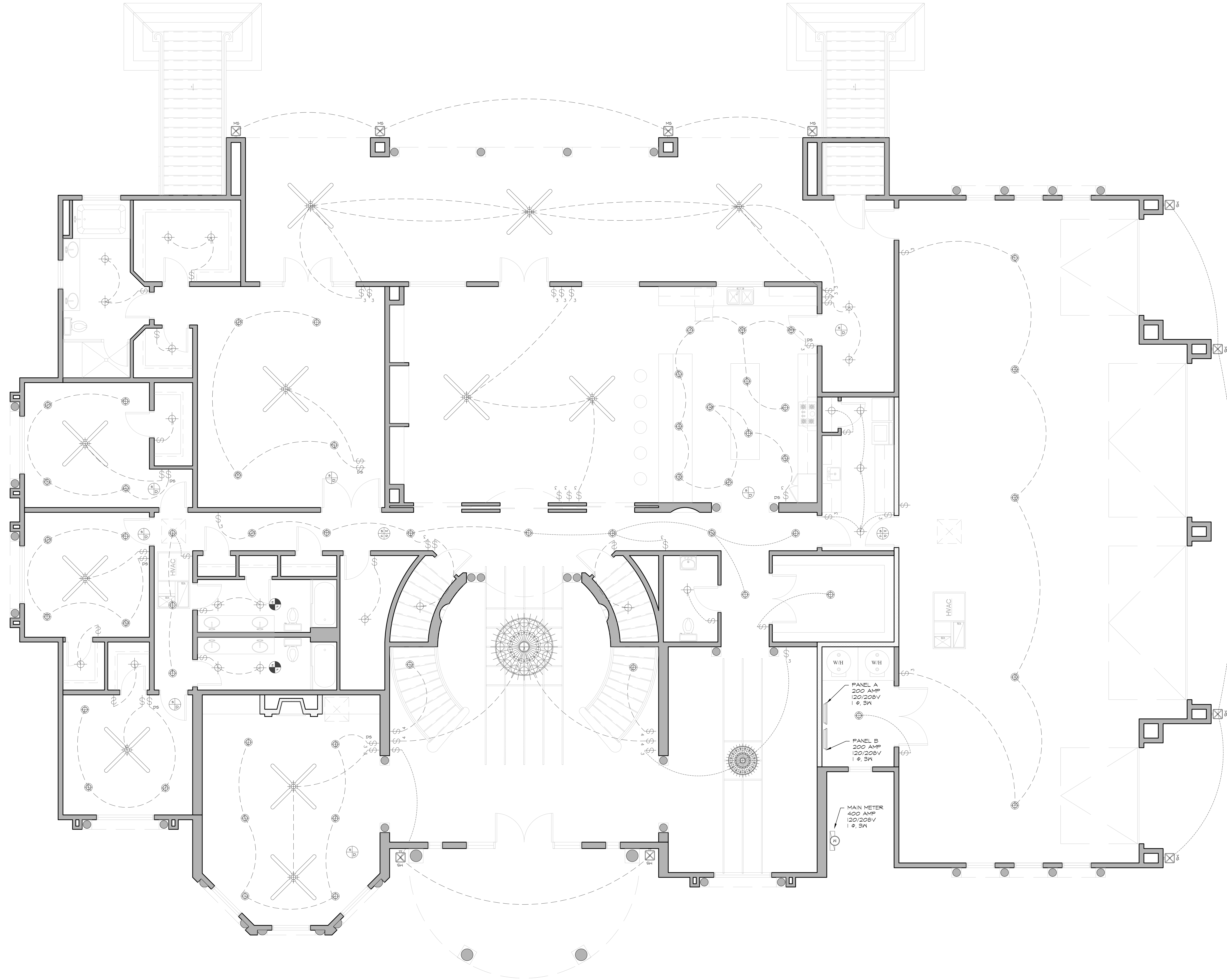
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REGISTERED PROFESSIONAL ENGINEER
VICARDO LEA
No. C 77975
Exp. 06-30-23
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 2/2/2023

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LIGHTING PLAN
FIRST FLOOR

CVEAS JOB # : _____

DATE: 2/2/2023

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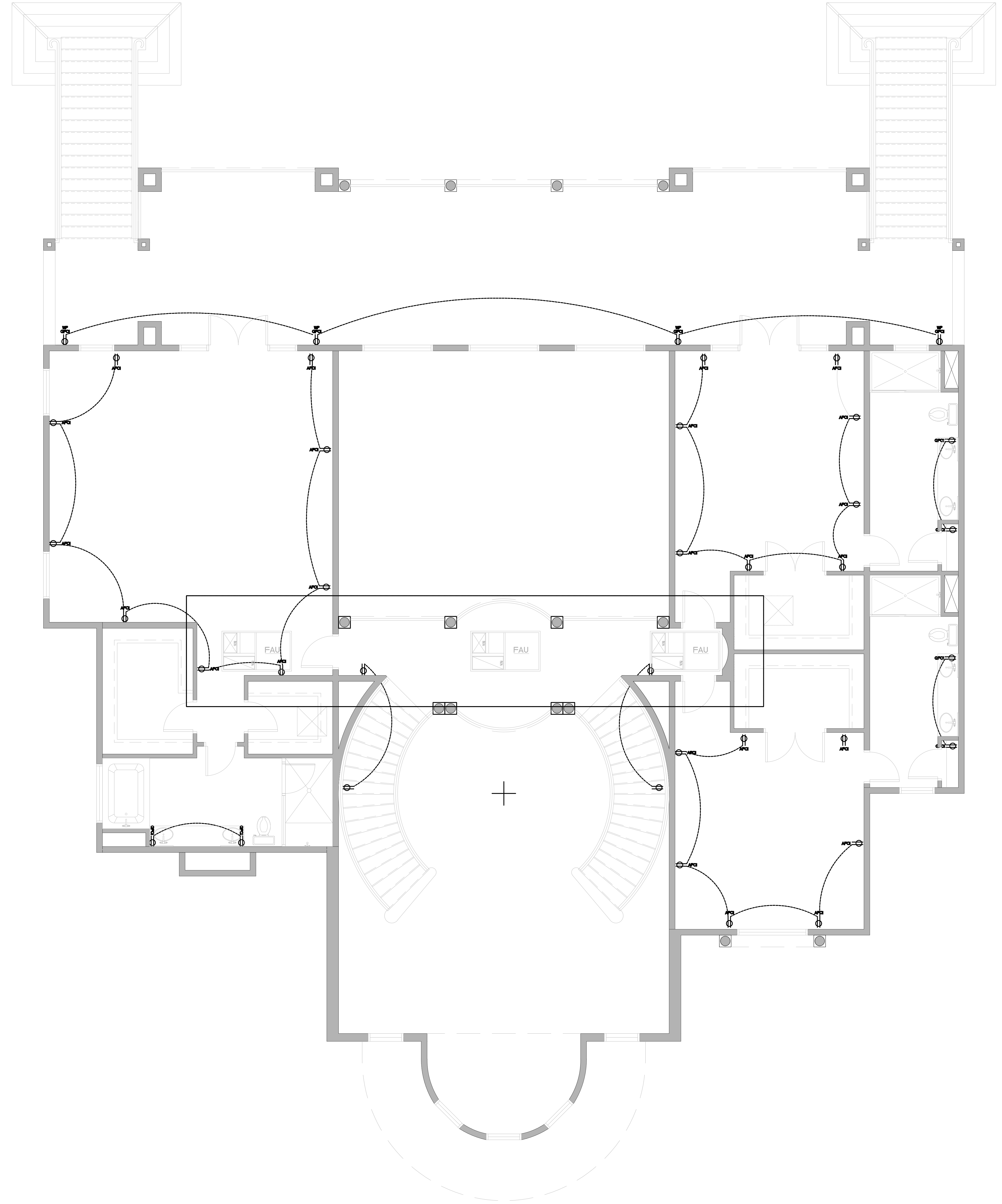
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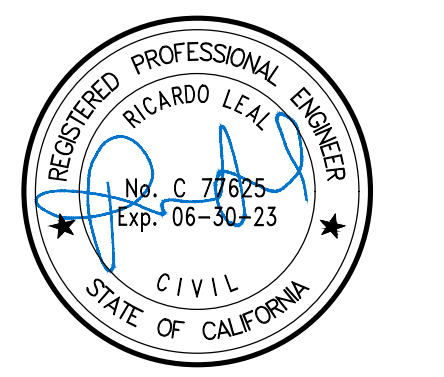
LIGHTING PLAN - FIRST FLOOR
SCALE: 1/4" = 1'-0"

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PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043



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POWER PLAN
SECOND FLOOR

CVEAS JOB #:

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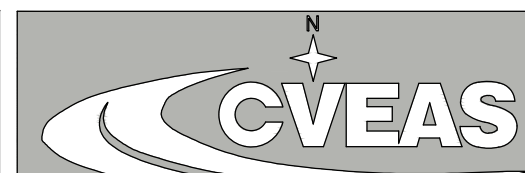
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PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
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PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
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PLUMBING NOTES, SCHEDULES, AND DETAILS

CVEAS JOB # :
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PLUMBING SPECIFICATION	
1. SCOPE OF WORK	II. INDIRECT WASTE
1.1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETION OF THE WORK OF THIS SECTION AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN, INCLUDING ALL INCIDENTAL WORK NECESSARY TO MAKE IT COMPLETE, SATISFACTORY AND READY FOR OPERATION AND USE.	1.1.1. ALL INDIRECT WASTE, WASTE PIPING OR FIXTURE WHICH RECEIVES THE DISCHARGE FROM A DISHWASHER, STEAMER OR SIMILAR PIECE OF EQUIPMENT WHICH PRODUCES WATER AT A TEMPERATURE HIGHER THAN 125°F SHALL BE DWV COPPER OR CAST IRON 10'-0" (MIN) DOWNSTREAM FROM THE OUTLET PRODUCING SUCH DISCHARGE. COORDINATE WITH EQUIPMENT SUPPLIER.
1.2. INSTALLATION OF ALL EQUIPMENT SHALL COMPLY WITH THE APPLICABLE DIVISIONS OF THE LOCAL BUILDING AND SAFETY DEPARTMENT CODES.	1.1.2. ALL INDIRECT WASTE PIPING FROM EQUIPMENT TO ABOVE FLOOR RECEPTOR SHALL BE 1" MIN. COPPER OR PVC UNLESS LARGER SIZE IS INDICATED BY EQUIPMENT OPENING.
2. WATER PIPE	1.2. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE (12") SECTION OF RED BRASS PIPE.
2.1. DOMESTIC COLD AND HOT WATER PIPING SHALL BE AS FOLLOWS:	1.3. PIPING SUPPORTS. ALL PIPING TO BE SUPPORTED WITH HANGERS AND BRACKETS WHICH PROVIDE ISOLATION FROM FRAMING. CONTACT BETWEEN PIPE AND SUPPORT TO BE LINED WITH PLASTIC OR LEAF.
2.1.1. BELOW GROUND - TYPE "K" SOFT DRAWN COPPER TUBING CONFORMING TO ASTM B88 WITH WROUGHT COPPER SOLDER JOINT FITTINGS AND SILVER SOLDERED JOINTS.	1.4. ALL FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER/TIGHT AND VERMIN PROOF.
2.1.2. ABOVE GROUND - TYPE "L" SOFT DRAWN COPPER TUBING CONFORMING TO ASTM B88 WITH WROUGHT COPPER SOLDER JOINT FITTING AND 85-5 SOLDER.	1.5. ALL EXTERIOR GAS COCKS, WATER SHUTOFF VALVES AND/OR SEWER CLEAN OUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
2.2. GATE VALVE SHALL BE BRONZE WITH ENDS TO SUITE PIPE, NON-RISING STEM FOR 150 PSI WORKING PRESSURE.	1.6. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
3. ROOF DRAINAGE	1.7. SEE ARCHITECTURAL DRAWINGS FOR HANDICAP FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW HANDICAP FIXTURES AND SINKS WITH INSULATING TAPE AND OFFSET P-TRAP AGAINST WALL. ALL FLUSH VALVES FOR HANDICAP SHALL BE LOCATED ON HANDICAP WHEELCHAIR ACCESS SIDE OF STALL.
3.1. ROOF DRAINAGE SYSTEM SHALL BE SERVICE-WEIGHT CAST IRON WITH NO-HUB FITTINGS, OR APPROVED EQUAL. ALL HORIZONTAL ROOF DRAINAGE SHALL BE FLASHED AND COUNTER-FLASHED.	1.8. ALL WASTE, SOLI AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
4. CONDENSATE DRAINS	1.9. ALL CLEAN OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS OF EQUIPMENT, CABINETS, ETC., WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
4.1. CONDENSATE DRAINS FROM HVAC UNITS SHALL BE TYPE M SOFT DRAWN COPPER TUBING OR SCHED. 80 PVC, SUPPORT PIPING AND PROTECT FROM DAMAGE. ALL HORIZONTAL CONDENSATE DRAINS SHALL BE SLOPED 1/8" PER FOOT MINIMUM.	2.0. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGSS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
5. WASTE ON VENT	2.1. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BASE BID. HE SHALL FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND FUTURE WORK TO BE DONE. HE SHALL INCLUDE ALL HIS SITE INFORMATION AND CONDITIONS WITHIN HIS BASE BID. HE SHALL BE RESPONSIBLE FOR COMPLETE AND FULLY FUNCTIONING PLUMBING SYSTEMS.
5.1. ALL HORIZONTAL SOIL AND WASTE PIPE SHALL BE SET TO A GRADE OF 2% PER FOOT (1/4" FT.)	2.2. PLUMBING CONTRACTOR SHALL COORDINATE COMPLETE PLUMBING INSTALLATION AND REQUIREMENTS PRIOR TO BASE BID WITH ALL LOCAL DISTRICTS AND GOVERNING AUTHORITIES. INCLUDE ALL FINDINGS WITHIN THE BASE BID.
5.2. INSIDE BUILDING WASTE PIPE ABOVE GROUND AND ALL PIPING BELOW GROUND UP TO 5'-0" FROM BUILDING SHALL BE STANDARD WEIGHT CAST IRON AND/OR APPROVED BY LOCAL AUTHORITIES AND NO-HUB FITTINGS. FROM 5'-0" OUTSIDE BUILDING TO CONNECTION WITH CITY STREET SEWER MAIN PIPE SHALL BE AS PER GOVERNING CODE.	2.3. CONDUITS OF ALL TYPES (I.E. PLUMBING, ELECTRICAL, AND BEVERAGE DISPENSING LINES) SHALL BE INSTALLED WITHIN WALLS AS PRACTICABLE. WHEN OTHERWISE INSTALLED, THEY SHALL BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING (I.E. MOUNTED 1" AWAY FROM THE WALL). BEVERAGE DISPENSING LINES MAY BE ENCLOSED WITHIN WALLS OR FLOORS, OR BE FURRED IN OR ENCASED IN AN APPROVED RUNWAY OR OTHER APPROVED SEALED ENCLOSURE. WHERE LINES ENTER A WALL OR OTHER ENCLOSURE, THE OPENINGS AROUND THE LINES MUST BE TIGHTLY SEALED. A CHASE OR RUNWAY WHICH ENCLOSES LINES IN THE FLOOR SHALL PROTRUDE AT LEAST SIX INCHES FROM THE FLOOR AND BE COVERED AT THE BASE OF THE CHASE.
5.3. ALL VENT PIPING SHALL BE CAST IRON WITH NO-HUB FITTINGS, OR APPROVED EQUAL.	2.4.1. AS SOON AS POSSIBLE AND WITHIN 21 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE THEIR PURCHASE, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT 6 BOUND BOOKLETS FOR APPROVAL AND CONTAINING A COMPLETE LIST OF MATERIALS, SPECIALTIES AND EQUIPMENT HE IS TO FURNISH FOR THE INSTALLATION. ALL SUBMITTALS SHALL BE MADE AT ONE TIME. NO DEVIATION OF PLUMBING FIXTURES WILL BE ACCEPTED.
5.4. CLEAN-OUT SHALL BE INSTALLED AS PER GOVERNING CODE.	
6. NATURAL GAS PIPING	
6.1. PIPE SHALL BE NEW SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53, GRADE A & B, WITH 150 LB. BLACK MALLEABLE IRON SCREWED FITTINGS AND COUPLERS. ONE INCH AND SMALLER SHALL BE LEVER HANDLE TYPE WITH CHECK. ALL BRONZE SCREWS, CRANE NO. 248 OR EQUAL, 1 1/2" AND LARGER VALVES SHALL BE IRON BODY WITH BRONZE SQUARE HEAD PLUS CRANE NO. 324 OR EQUAL. PROVIDE OPERATING WRENCH WHERE REQUIRED FOR EACH VALVE. PROVIDE APPROVED GAS PRESSURE REGULATORS.	
6.2. GAS VALVES, ONE INCH AND SMALLER SHALL BE LEVER HANDLE TYPE WITH CHECK. ALL BRONZE SCREWS, CRANE NO. 248 OR EQUAL, 1 1/2" AND LARGER VALVES SHALL BE IRON BODY WITH BRONZE SQUARE HEAD PLUS CRANE NO. 324 OR EQUAL. PROVIDE OPERATING WRENCH WHERE REQUIRED FOR EACH VALVE. PROVIDE APPROVED GAS PRESSURE REGULATORS.	
6.3. NATURAL GAS RIGHT AND LEFT HAND NIPPLES AND COUPLINGS SHALL BE NEW BLACK IRON. UNIONS SHALL NOT BE USED EXCEPT AT FITTINGS, UNITS AND VALVES.	
7. CLEANOUTS	
7.1. PROVIDE CLEANOUTS WITH BRASS SCREEN PLUS AT ALL CHANGES OF DIRECTION TO PERMIT ROUTING OF ALL SEWERS.	
8. VALVES	
8.1. EVERY PLUMBING FIXTURE SHALL BE INDEPENDENTLY VALVED.	
9. TESTING	
9.1. ALL SEWERS AND WATER PIPING SHALL BE PROPERLY TESTED TO THE SATISFACTION OF THE ARCHITECT AND THE LOCAL BUILDING INSPECTOR.	
10. EXCAVATION AND BACK FILLING	
10.1. TRENCHES SHALL BE BACK FILLED AND SETTLED BY PUDDLING. NO PIPE SHALL BE LESS THAN 12" BELOW FINISH GRADE.	

PLUMBING NOTES	
1. ALL FIXTURES, MATERIALS, AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, STATE OF CALIFORNIA TITLE 24, ADA REQUIREMENTS, AND LOCAL ORDINANCES.	15. ALL SEWER PIPING SHALL HAVE A MINIMUM OF 1/4" PER FOOT SLOPE.
2. PLUMBING CONTRACTORS TO FURNISH ALL APPLICABLE PERMITS AND INSPECTION FEES AS REQUIRED BY LOCAL CODES.	16. COPPER, COPPER ALLOY(S), LEAD AND LEAD ALLOY(S), INCLUDING BRASS, SHALL NOT BE USED FOR BUILDING SANITARY SEWER SYSTEMS EXCEPT FOR DOMESTIC WASTE SINK TRAPS AND SHORT LENGTHS OF ASSOCIATED CONNECTING PIPES WHERE ALTERNATE MATERIAL ARE NOT PRACTICAL. WHERE PERMITTED BY THE BUILDING OFFICIAL, COPPER TUBE FOR DRAINAGE AND VENT PIPING SHALL HAVE A WEIGHT OF NOT LESS THAN THAT OF COPPER DRAINAGE TUBE TYPE DWV.
3. OWNER SHALL PAY FOR ALL SEWER CONNECTION CHARGES, WATER METER AND TAP FEES, AND MAJOR FACILITIES CHARGES AS MAY BE REQUIRED BY LOCAL GOVERNING AUTHORITIES.	17. A CLEAN-OUT SHALL BE PROVIDED AT THE POINT OF CONNECTION BETWEEN THE BUILDING SEWER AND THE CITY LATERAL AND AN APPROVED FITTING SHALL BE USED TO BRING THE CLEAN-OUT RISER TO GRADE. WHERE SEWER CLEAN-OUTS ARE TO BE CONNECTED TO EXISTING CITY LATERAL, SUCH CONNECTIONS SHALL BE ACCOMPLISHED BY USE OF AN APPROVED FITTING.
4. ROUGH IN AND CONNECT TO ALL FIXTURES AND EQUIPMENT REQUIRING GAS, WATER, AND WASTE LINES AS INDICATED ON PLANS.	
5. PROVIDE CLEANOUTS ON ALL WASTE LINES AT TERMINATIONS, CHANGES IN DIRECTION, AND AT 100' INTERVALS.	
6. PLUMBING CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, ETC. WHETHER SHOWN ON THESE PLANS OR NOT. NECESSARY TO PROVIDE A COMPLETE CODE APPROVED, WORKABLE PLUMBING SYSTEM.	
7. ALL PLANS ARE PICTORIAL ONLY. DOES NOT SHOW ACTUAL LOCATIONS. PLUMBING CONTRACTORS SHALL SURVEY SITE AND COMPLETELY REVIEW ENTIRE PLANS PRIOR TO SUBMITTING A BID FOR THE PROJECT.	
8. ALL SINKS MUST BE EQUIPPED WITH HOT AND COLD DISPENSED FROM MIXING FAUCETS.	
9. NO VENT SHALL TERMINATE CLOSER THAN 10 FEET FROM ANY AIR INTAKE DEVICE.	
10. PROVIDE SHUT-OFF VALVES AT POINT OF CONNECTION OF COLD WASTE SUPPLY TO EXISTING COLD WATER LINE.	
11. PIPES IN TRENCHES MUST HAVE 18 INCHES MINIMUM COVERAGE.	
12. THE IGNITER OF ALL GAS FIRED EQUIPMENT IN THE GARAGE MUST BE ELEVATED 18 INCHES ABOVE THE FLOOR.	
13. WHEN LPG FURNACE OR WATER HEATER IS INSTALLED IN THE GARAGE, PROVIDE A PAN WITH A MINIMUM TWO-INCH LIP AND A MINIMUM OF 1 1/2 INCH DRAIN TO THE EXTERIOR OF THE BUILDING.	
14. PROVIDE IMPACT PROTECTION FOR ANY GAS FIRED EQUIPMENT LOCATED IN THE GARAGE.	

REFER TO EQUIPMENT SPECIFICATION SHEETS FOR ACTUAL SIZES.

ALL PLUMBING PLANS ARE SCHEMATIC ONLY AND DOES NOT SHOW ACTUAL LOCATIONS. PIPE ROUTING SHALL BE A THE OPTION OF THE PLUMBING CONTRACTOR (U.O.N.) AND SHALL BE COORDINATED WITH OTHER TRADES.

PIPING MATERIAL SCHEDULE			
SERVICE	PIPE	FITTINGS	REMARKS
WASTE AND VENT	ABS SCHEDULE 40 ASTM F628 ASTM D2661	AMERICAN STANDARD	ALL PRODUCTS SHALL BEAR THE SEAL OF A NATIONALLY RECOGNIZED LISTING OR CERTIFYING AGENCY.
HOT AND COLD WATER	COPPER OR PEX	COPPER FITTING PEX COUPLING	COPPER TYPE "M" IS PROHIBITED. ONLY COPPER TYPE "L" IS ALLOWED. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS.
GAS	BLACK STEEL SCHED 40	BLACK STEEL SCHEDULE 40	1. USE GALVANIZED BLACK STEEL WHERE EXPOSED TO WEATHER. 2. GALVANIZED BLACK STEEL PIPING IS PROHIBITED TO BE USED AS WATER PIPING IN CITY/COUNTY JURISDICTION.

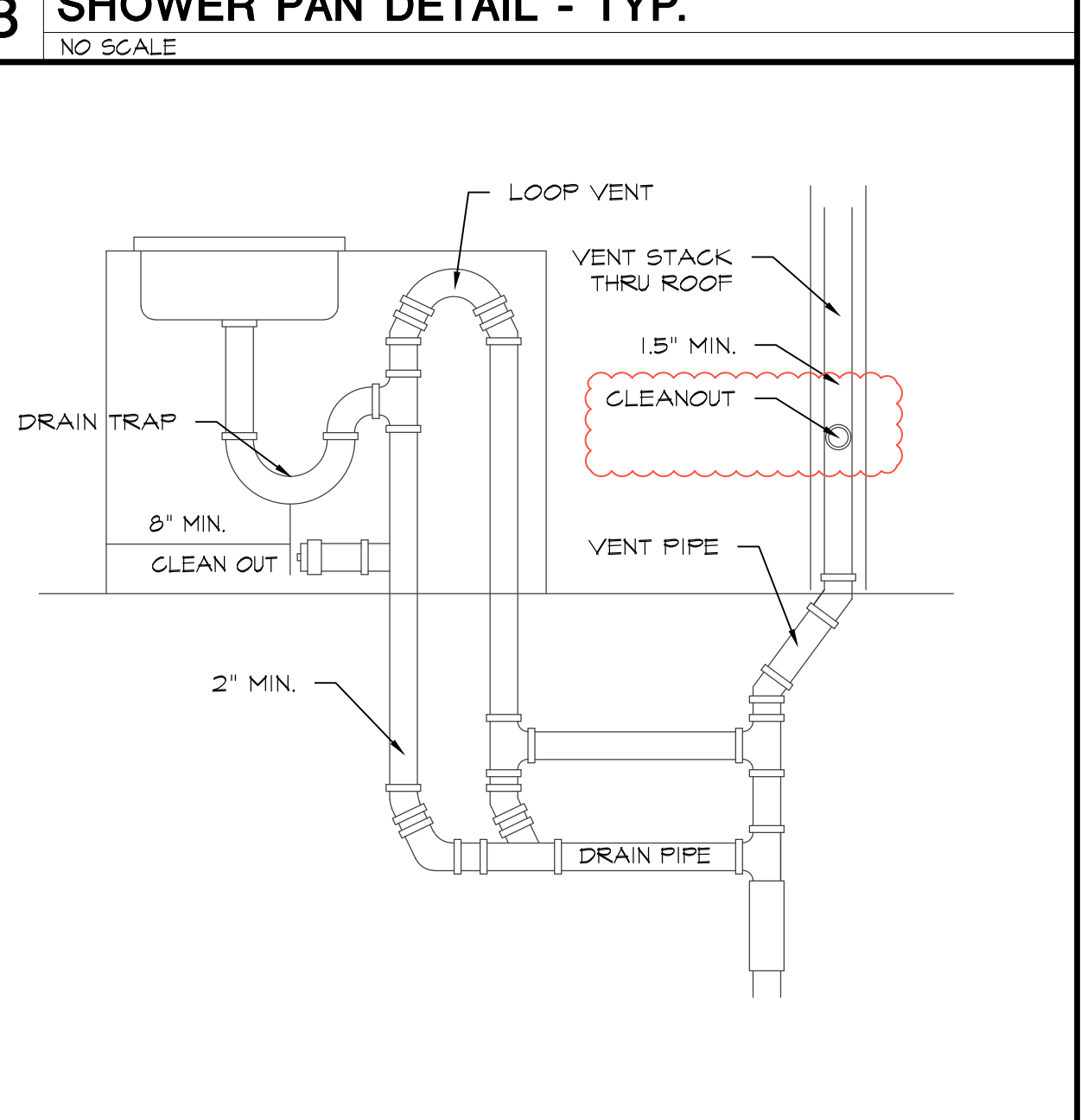
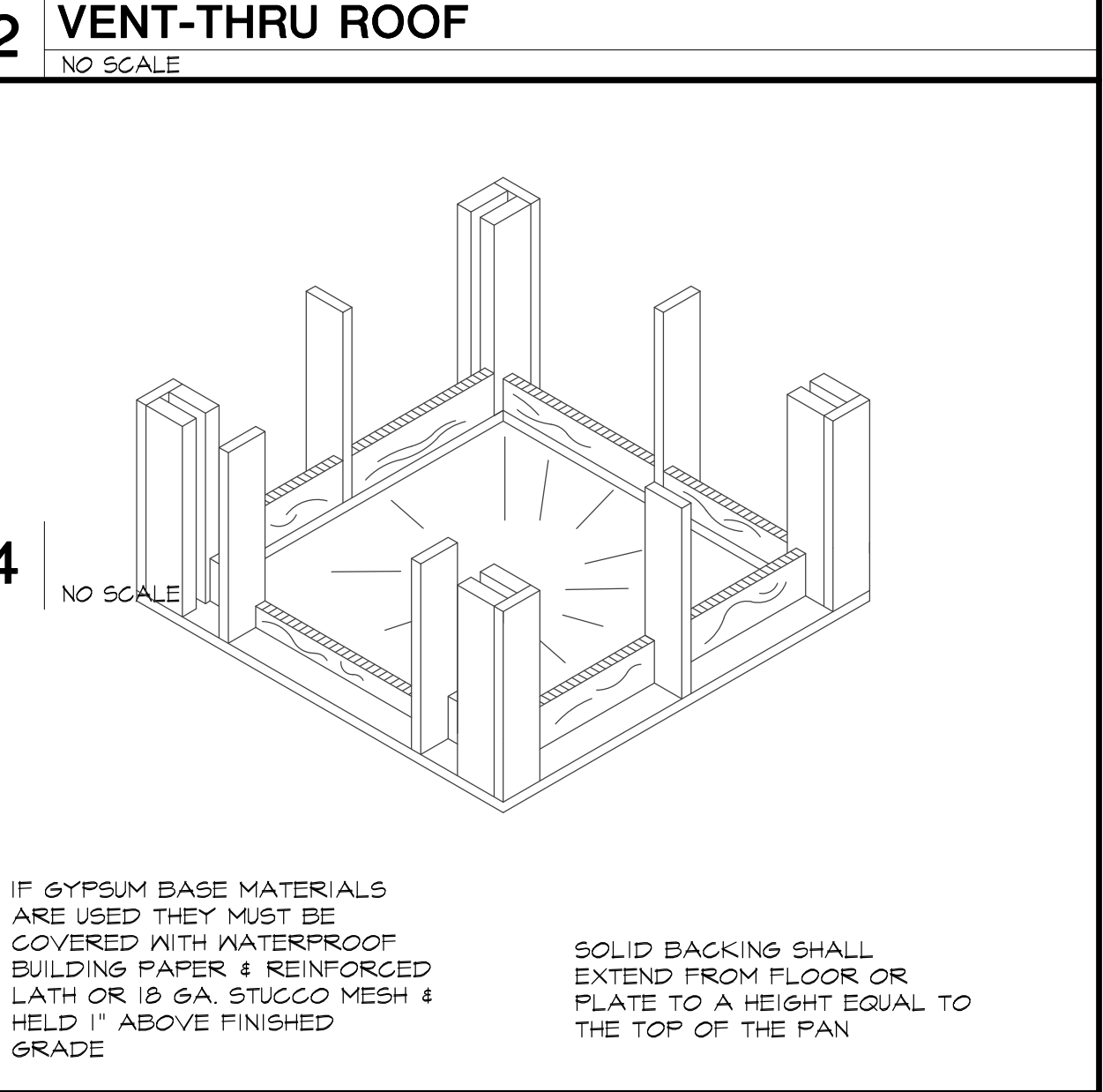
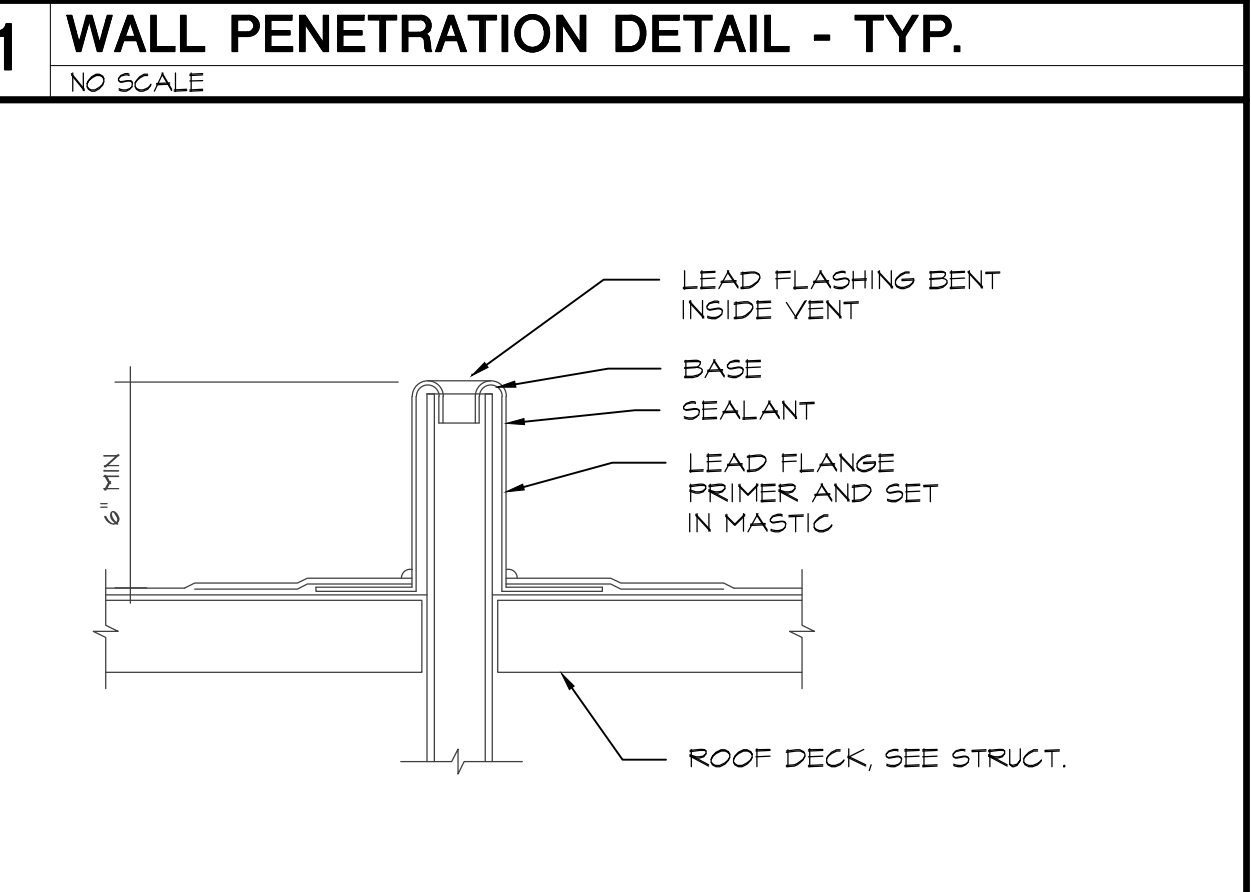
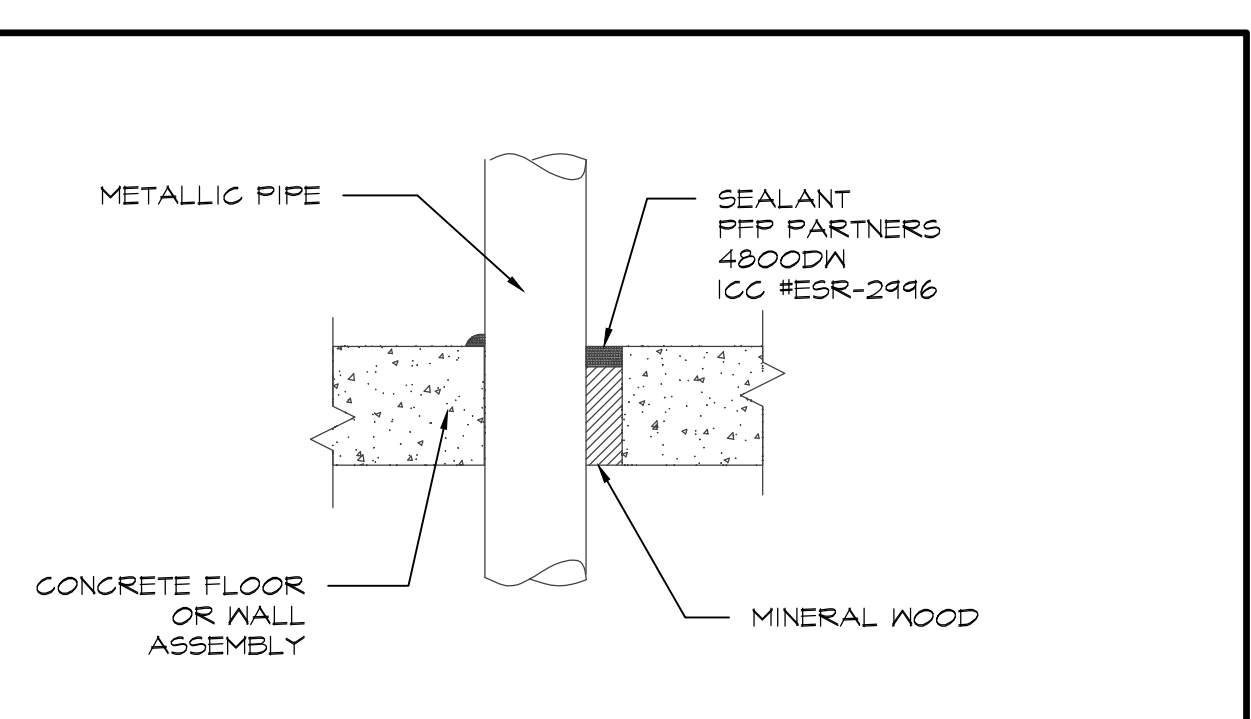
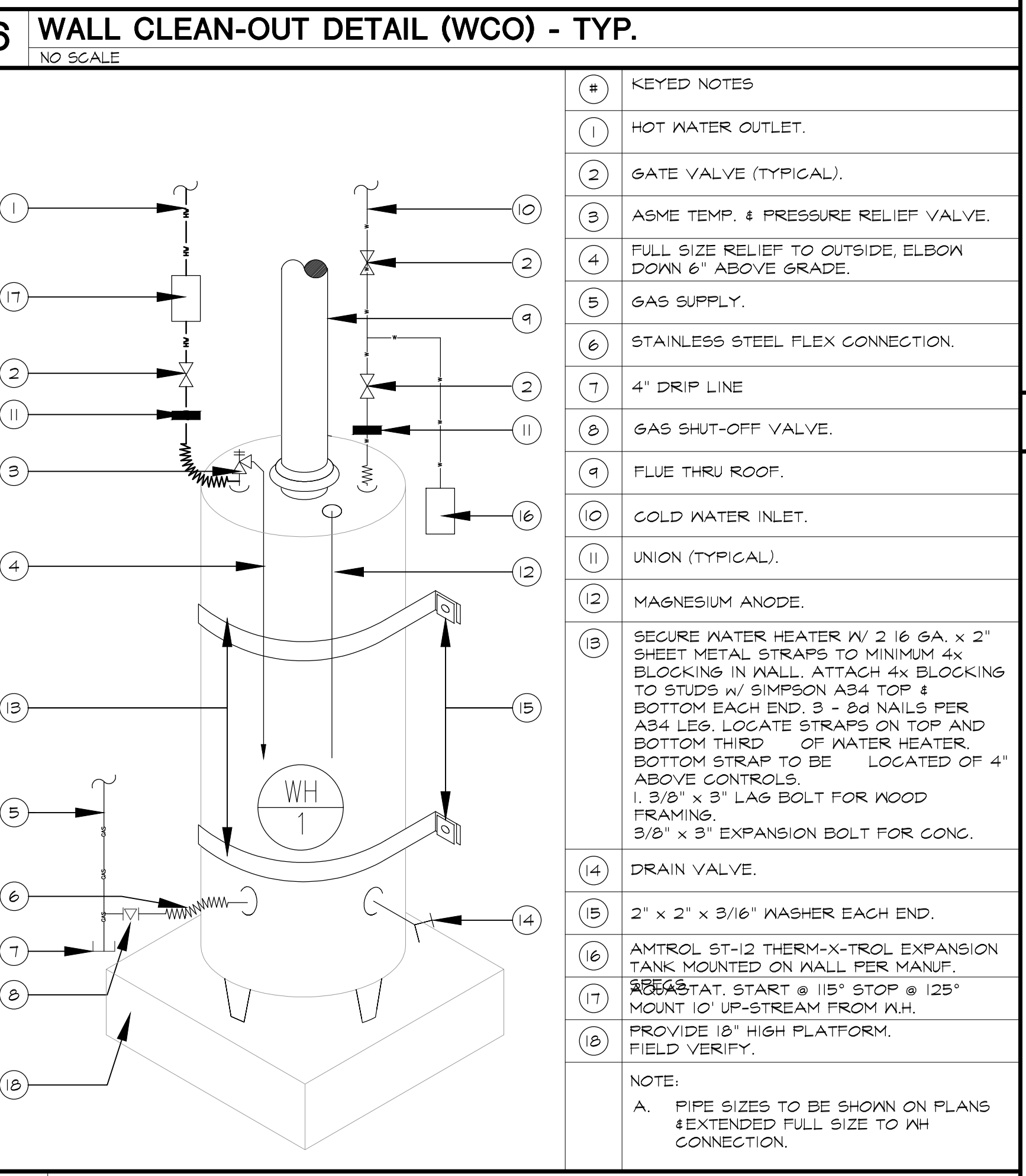
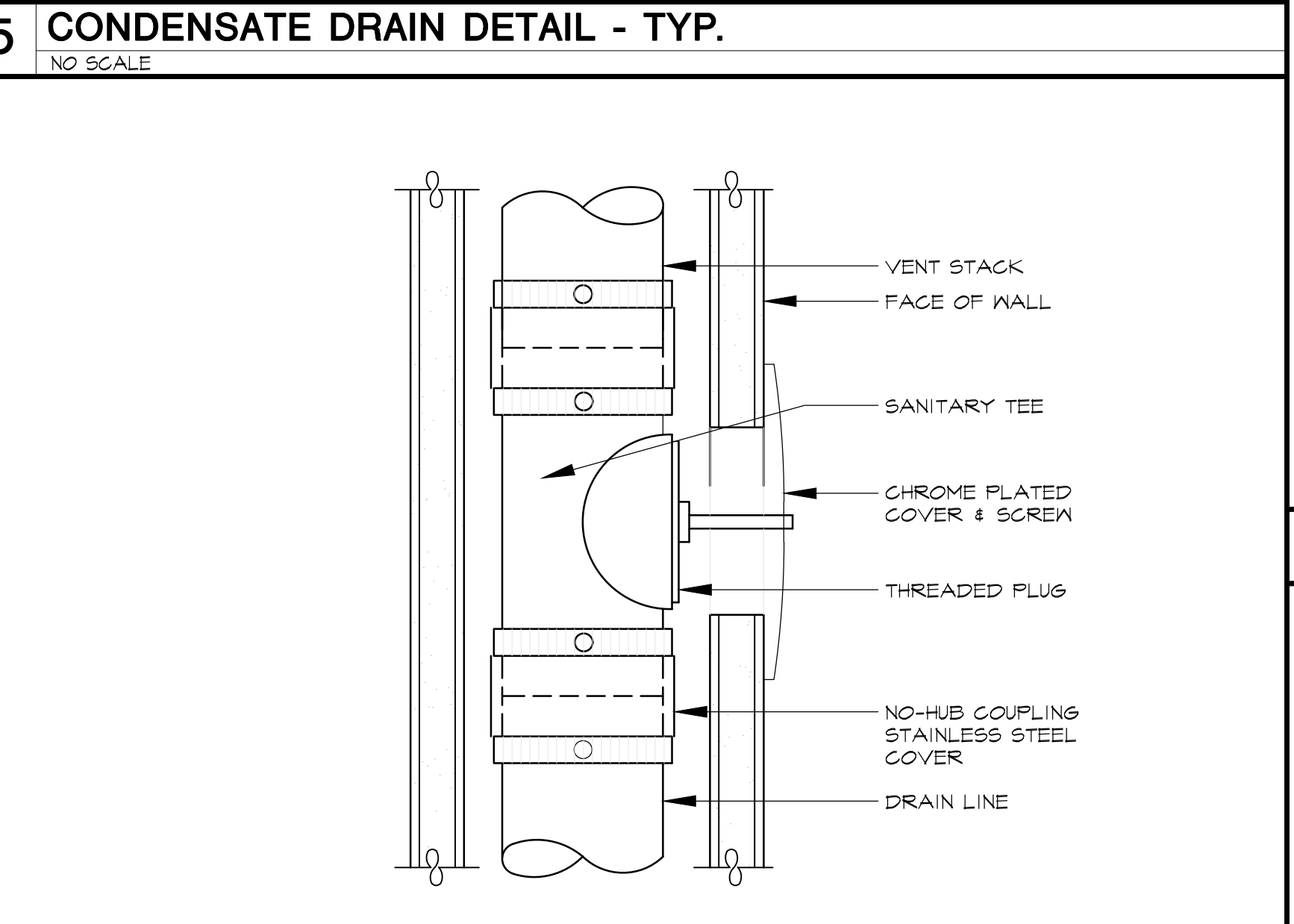
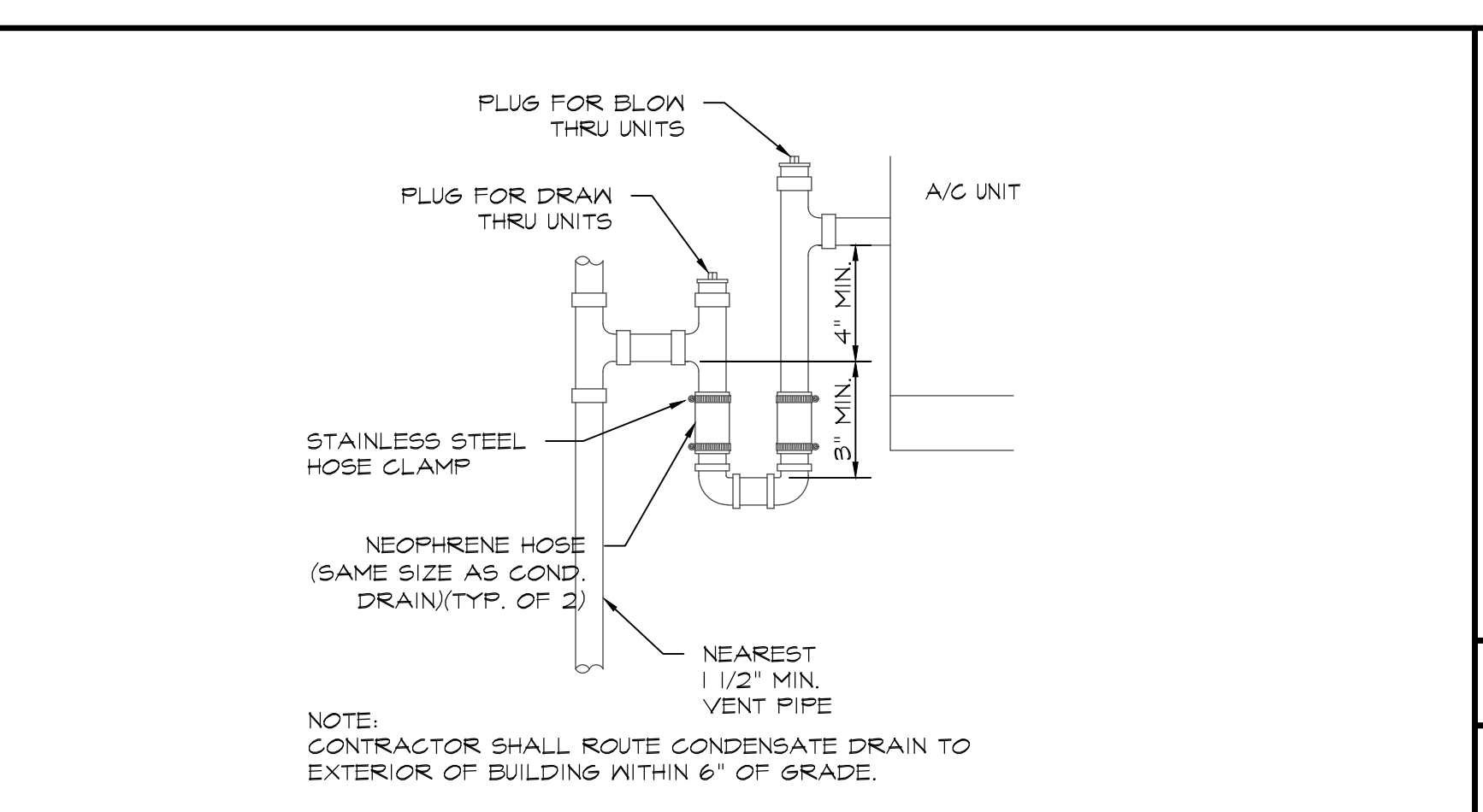
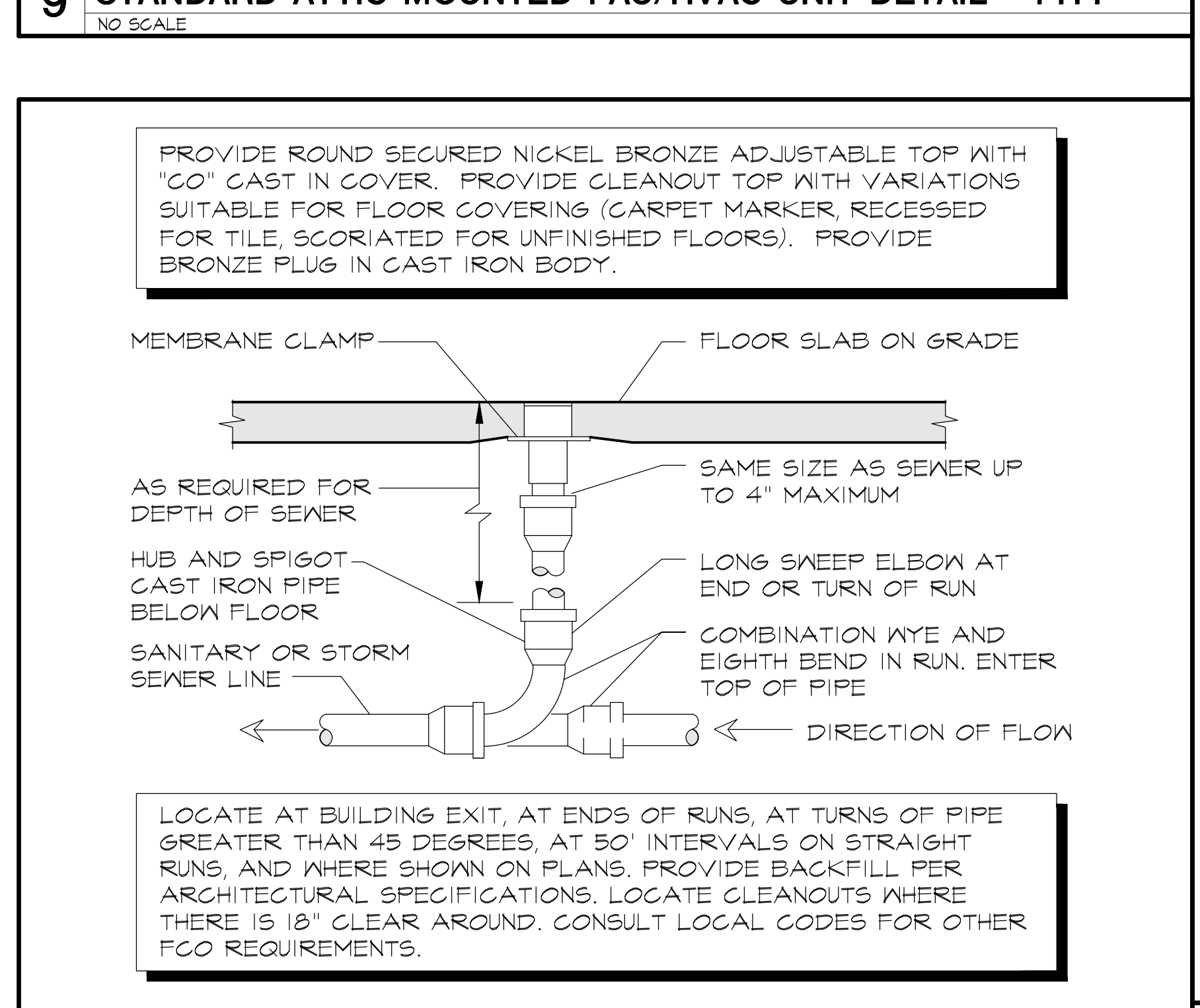
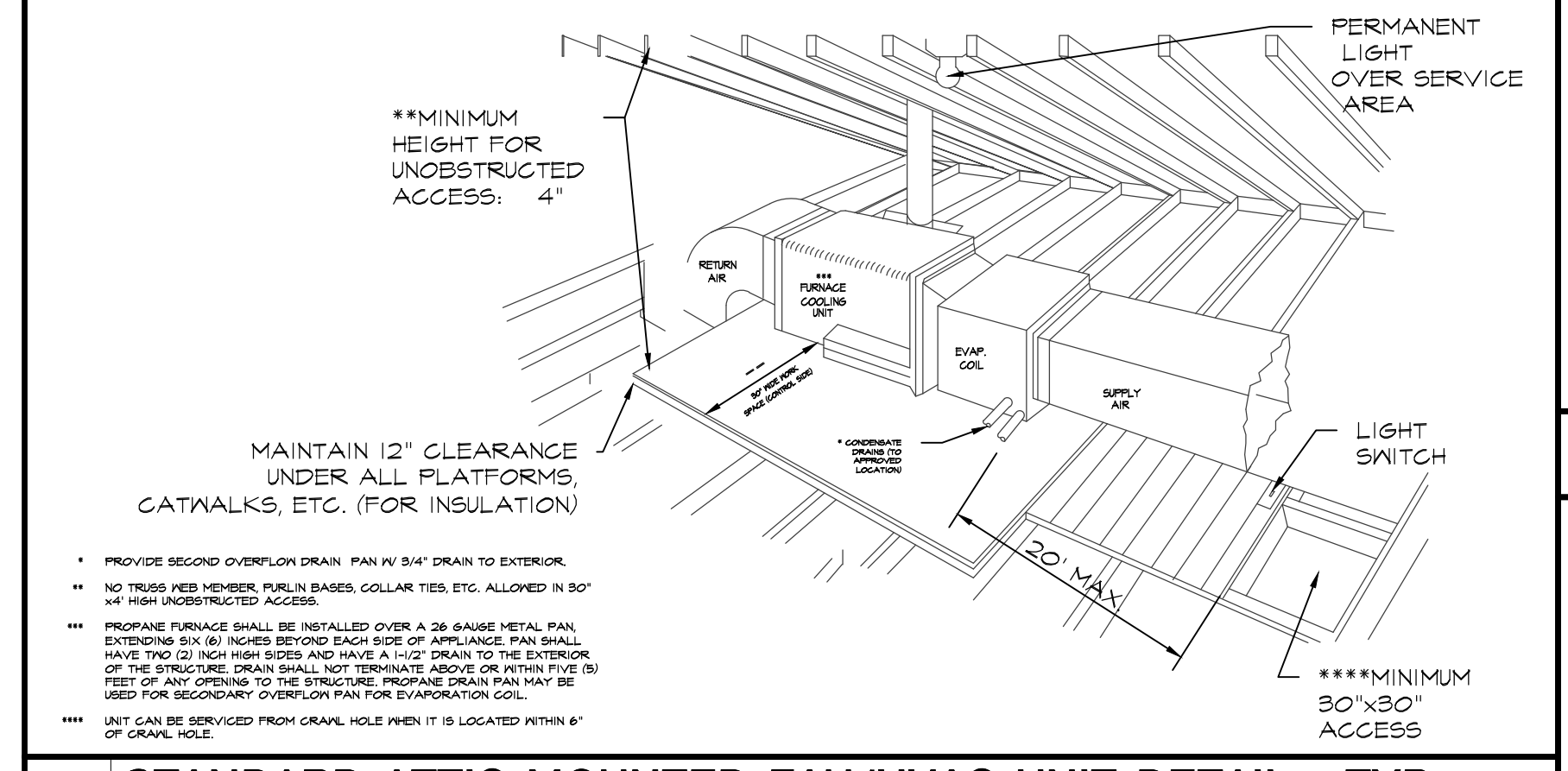
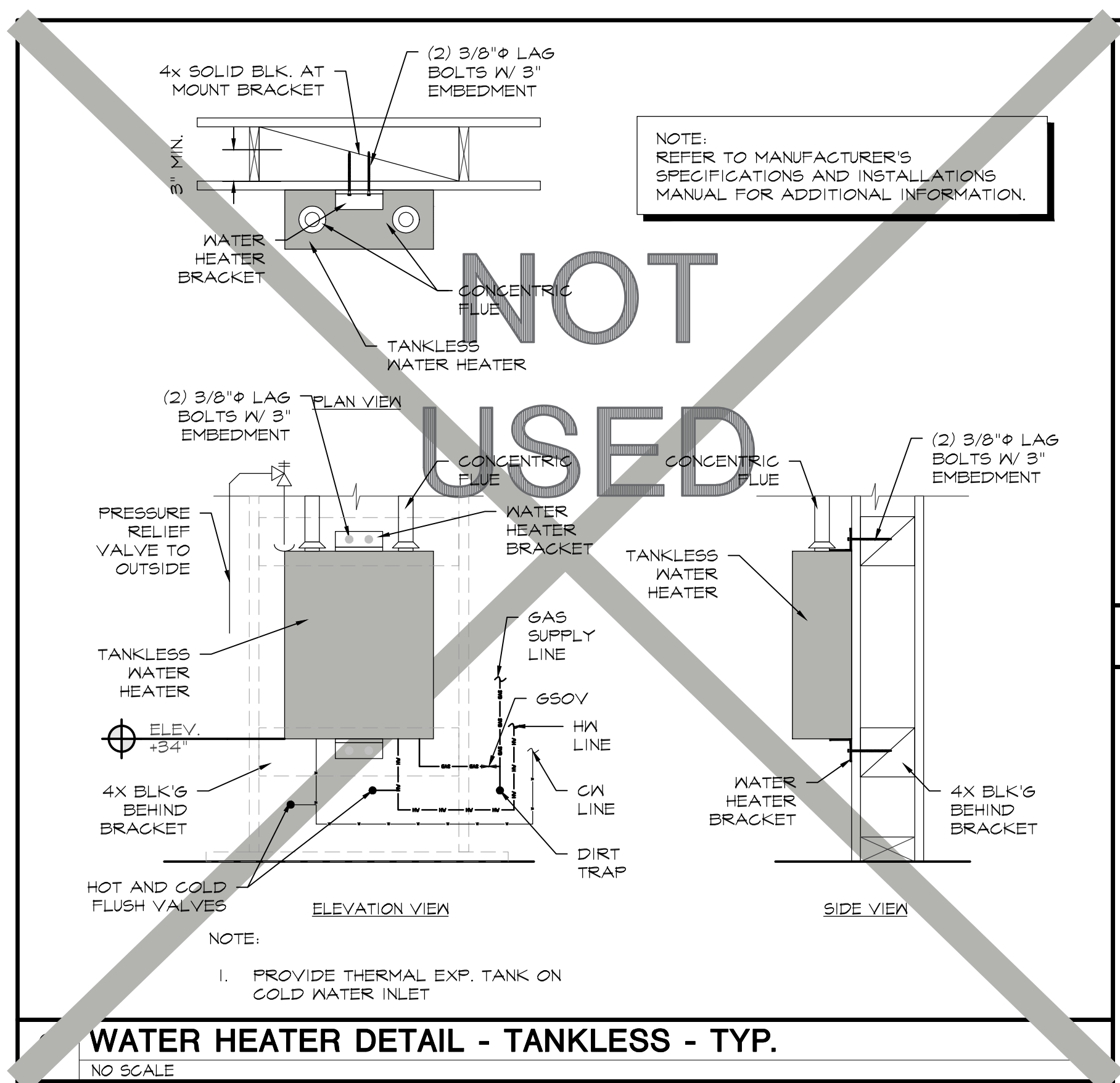
PLUMBING FIXTURE SCHEDULE											
LABEL	(N) OR (E)	DESCRIPTION	QNTY.	WASTE	VENT	HOT WATER	COLD WATER	TRAP	MANUFACTURER	MODEL	REMARKS
WC	(N)	WATER CLOSET	7	2"ø	2"ø	N/A	3/4"ø	INT.	SLOAN	KETS-8024-8010	0.20 GPF MAX. - SHALL BE SELF-CLOSING OR SELF-CLOSING METERING EQUIVALENT FIXTURE ACCEPTANCE. MUST BE ACCESSIBLE COMPLIANT.
LAV	(N)	LAVATORY	13	1-1/2"ø	1-1/2"ø	3/4"ø	3/4"ø	INT.	KOHLER	PENNINGTON K-2146-8	INSTALL INTEGRAL COUNTERTOP LAVATORY SUPPLIED BY OTHERS. INSTALL CHICAGO #3300-GP SELF-CLOSING METERING FAUCET. SET TEMP STOP FOR 100". 8" CENTER, POLISHED
WHP	(N)	WATER HEATER (HEAT PUMP) (50 GALLON)	2	2"ø		REFER TO PLANS	REFER TO PLANS		AO SMITH	FFTJ50	CONTRACTOR SHALL VERIFY AND INSTALL CONCENTRIC FLUE AND/OR CORRECT VENTING PRODUCT(S) FOR THIS MODEL. REFER TO DETAIL 9/P1.
KS	(N)	KITCHEN SINK (3-BOWL)	1	2"ø		3/4"ø	3/4"ø	INT.	AMERICAN STANDARD OR EQUAL	PORTSMOUTH 28X21 SINGLE BOWL 5/5 OR EQUAL	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.
SH1	(N)	SHOWER IV SEAT	2	2"ø		3/4"ø	3/4"ø	INT.	TBD BY OWNER	TBD BY OWNER	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.
SH2	(N)	SHOWER	4	2"ø		3/4"ø	3/4"ø	INT.	TBD BY OWNER	TBD BY OWNER	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.
TS	(N)	TUB/SHOWER COMBO	2	2"ø		3/4"ø	3/4"ø	INT.	TBD BY OWNER	TBD BY OWNER	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.
CW	(N)	CLOTHES WASHER	1	2"ø		3/4"ø	3/4"ø	INT.	L6 OR EQUAL	MPF500HKA OR EQUAL	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.
CD	(N)	CLOTHES DRYER	1		4"ø				L6 OR EQUAL	DLEX500K OR EQUAL	PROVIDE 4"ø VENT FLUE THROUGH TO EXTERIOR.
DW	(N)	DISHWASHER	1	2"ø		3/4"ø	3/4"ø	INT.	WHIRLPOOL OR EQUAL	WDFB30PAH OR EQUAL	
LS	(N)	LAUNDRY SINK	1	2"ø		3/4"ø	3/4"ø	INT.	KRAUS OR EQUAL	KHT301 - 22L OR EQUAL	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.
JAZ	(N)	JACUZZI	2	2"ø		3/4"ø	3/4"ø	INT.	AMERICAN STANDARD OR EQUAL	2111 ELISSE OR EQUAL	MUST HAVE A MAXIMUM FLOW RATE FO 1.2 GPM AT 60 PSI.

Revisions	Date
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PLUMBING NOTES, SCHEDULES, AND DETAILS

CVEAS JOB #:	
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PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043



DATE SIGNED: 3/1/2023

Revisions	Date
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**WASTE PLAN
1ST FLOOR**

CVEAS JOB #:

DATE: 3/1/2023

PLANNING SUBMITTAL #: XX-XXXX

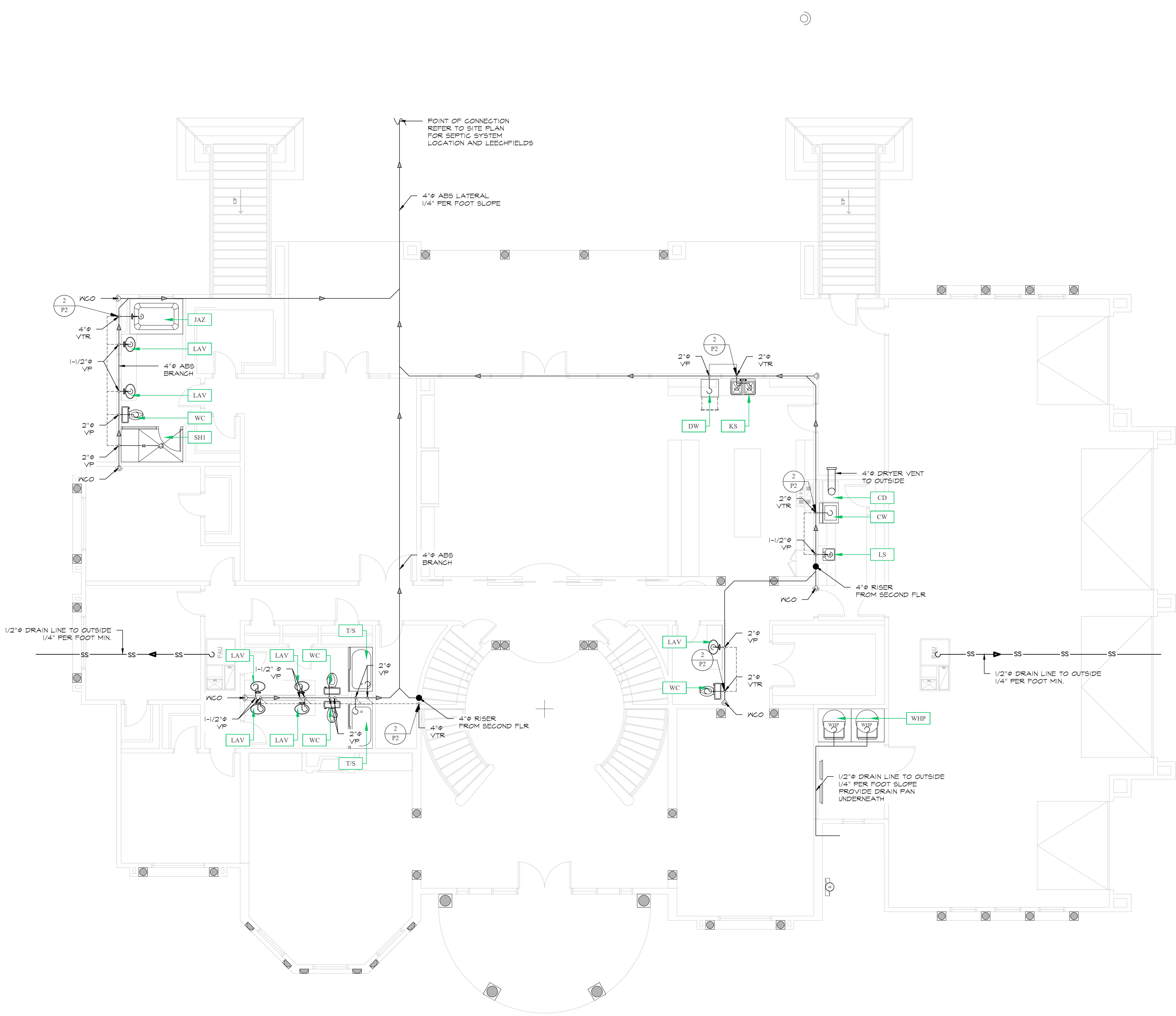
PLAN CHECK SUBMITTAL #: XX-XXXX

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SCALE:

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PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
---	CO2 LINE	
----	VENT PIPE (ABS)	S
----	WASTE LINE (ABS)	S
----	HOT WATER LINE	HW
----	COLD WATER LINE	CW
----	GAS LINE	GAS
----	P-TRAP	PT
○	AUTOMATIC SOLENOID GAS VALVE	ASGV
○	GAS SHUT-OFF VALVE	GSOV
○	WALL CLEANOUT	CO
○	FLOOR CLEANOUT	FCO
○	VENT PIPE & VENT THRU ROOF	VP, VTR
○	WATER CONNECTION	--
○	HOSE BIBB	HB
+	BACKFLOW PREVENTER FOR CARBONATOR (TESTABLE)	
+	BACKFLOW PREVENTER (MAIN WATER SUPPLY)	BFP
●	STUB OUT	

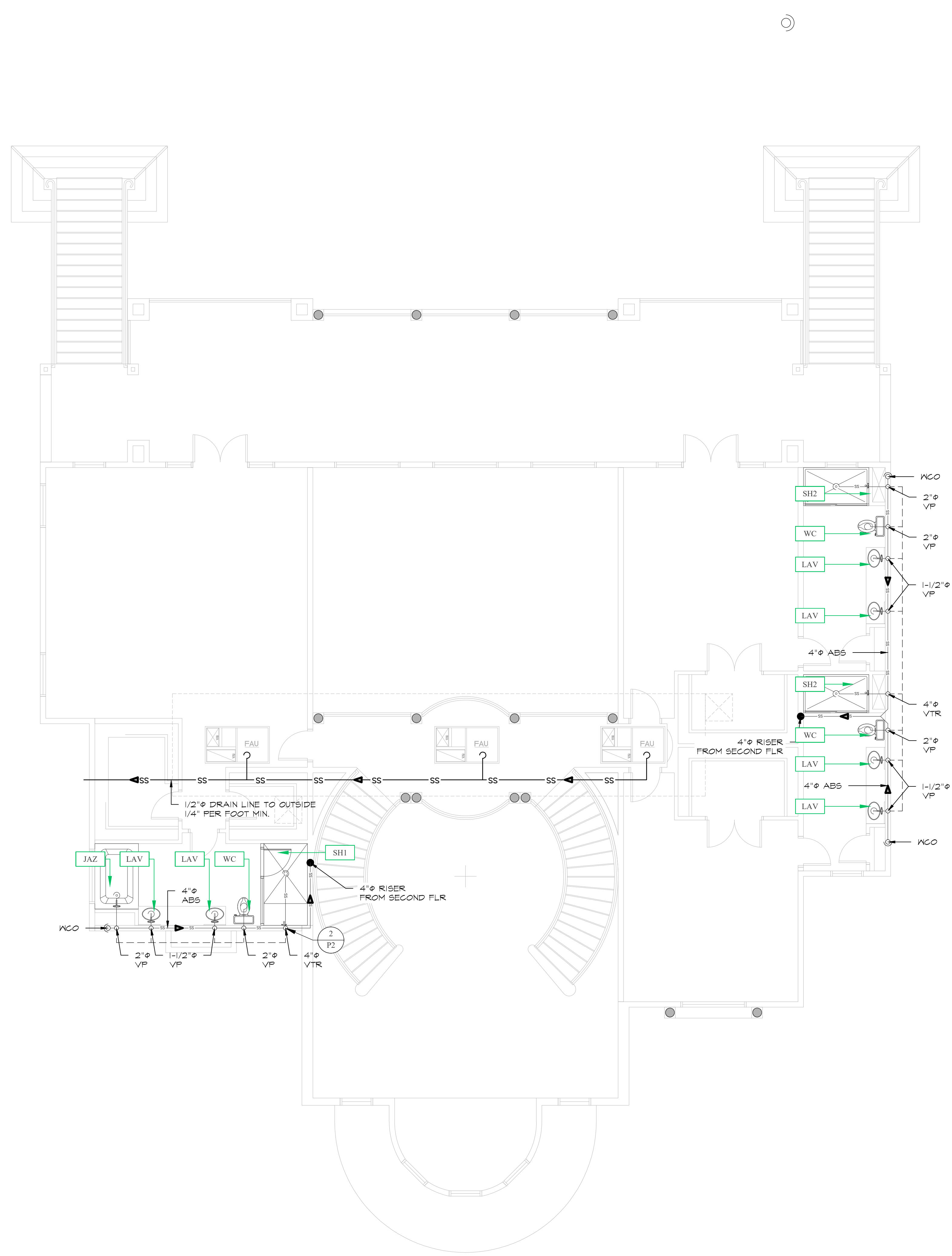
**DRAINAGE FIXTURE UNITS
PER CPC 2022 TABLE 702.1**

(N) OR (E)	DESCRIPTION	QNTY	DFUs	TOTAL
N	WATER CLOSET	7	3.0	21.0
N	LAVATORY	13	1.0	13.0
N	KITCHEN SINK	2	2.0	4.0
N	LAUNDRY SINK	1	2.0	2.0
N	DISHWASHER	2	2.0	4.0
N	CLOTHES WASHER	1	3.0	3.0
N	TUB/SHOWER COMBO	2	2.0	4.0
N	SHOWER	4	2.0	8.0
N	JACUZZI	2	2.0	4.0
N	WASH/DRYER COMBO	0	3.0	0.0
TOTAL:				63.0

WASTE PLAN - 1ST FLOOR
SCALE: 3/16" = 1'-0"

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WASTE PLAN - 1ST FLOOR
SCALE: 3/8" = 1'-0"

PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
---	CO2 LINE	
----	VENT PIPE (ABS)	S
----	WASTE LINE (ABS)	S
----	HOT WATER LINE	HW
----	COLD WATER LINE	CW
----	GAS LINE	GAS
---	F-TRAP	FT
⊗	AUTOMATIC SOLENOID GAS VALVE	ASGV
⊗	GAS SHUT-OFF VALVE	GSOV
⊙	WALL CLEANOUT	CO
⊙	FLOOR CLEANOUT	FCO
○	VENT PIPE & VENT THRU ROOF	VP, VTR
•	WATER CONNECTION	--
▼	HOSE BIBB	HB
⊕	BACKFLOW PREVENTER FOR CARBONATOR (TESTABLE)	
⊕	BACKFLOW PREVENTER (MAIN WATER SUPPLY)	BFP
●	STUB OUT	

DRAINAGE FIXTURE UNITS PER CPC 2022 TABLE 702.1				
(N) OR (E)	DESCRIPTION	QNTY	DFUs	TOTAL
N	WATER CLOSET	7	3.0	21.0
N	LAVATORY	13	1.0	13.0
N	KITCHEN SINK	2	2.0	4.0
N	LAUNDRY SINK	1	2.0	2.0
N	DISHWASHER	2	2.0	4.0
N	CLOTHES WASHER	1	3.0	3.0
N	TUB/SHOWER COMBO	2	2.0	4.0
N	SHOWER	4	2.0	8.0
N	JACUZZI	2	2.0	4.0
N	WASH/DRYER COMBO	0	3.0	0.0
TOTAL:				63.0

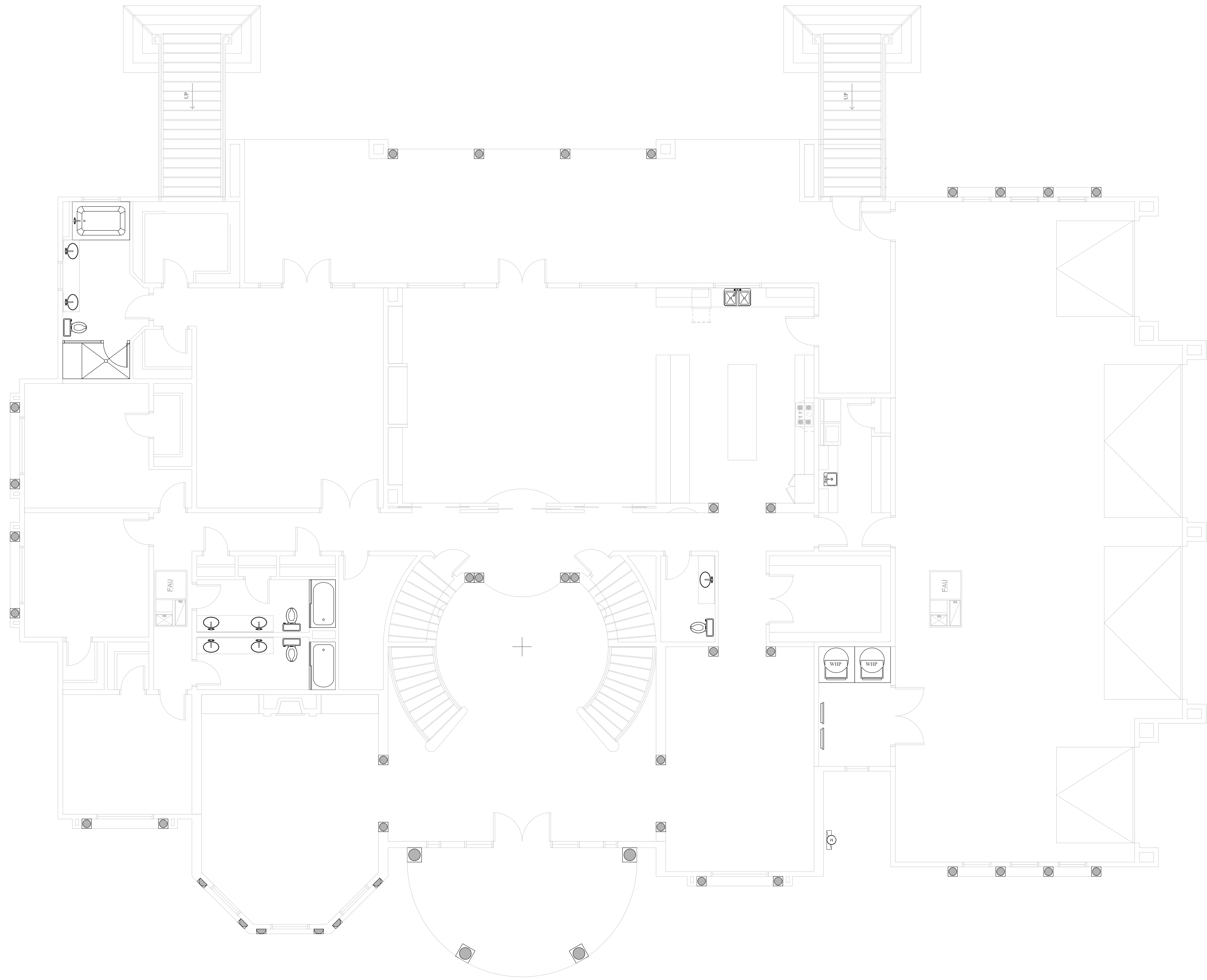
PER CPC TABLE 702.2, MAX. UNIT SECTION, HORIZONTAL ROW
SIZE OF MAIN SEWER LINE: 4" ABS



Revisions	Date

CVEAS JOB #:	
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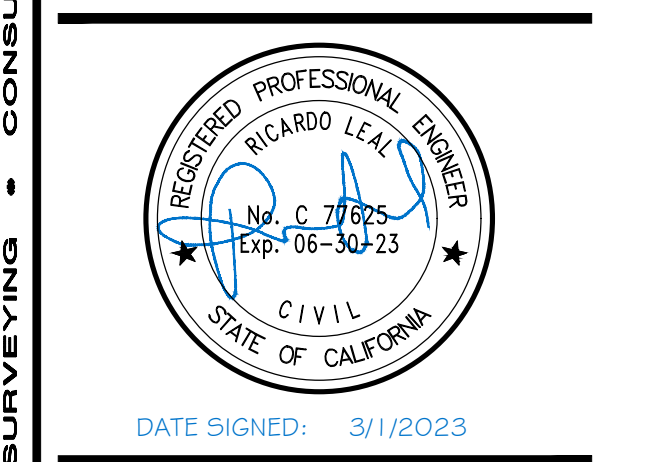
WATER PLAN - 1ST FLOOR
SCALE: 3/16" = 1'-0"

PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
---	CO2 LINE	
----	VENT PIPE (ABS)	S
----	WASTE LINE (ABS)	S
----	HOT WATER LINE	HW
----	COLD WATER LINE	CW
----	GAS LINE	GAS
----	P-TRAP	PT
⊕	AUTOMATIC SOLENOID GAS VALVE	ASSV
⊕	GAS SHUT-OFF VALVE	SSOV
⊕	WALL CLEANOUT	CO
⊕	FLOOR CLEANOUT	FCO
⊕	VENT PIPE & VENT THRU ROOF	VP_VTR
•	WATER CONNECTION	--
▼	HOSE BIBB	HB
⊕	BACKFLOW PREVENTER FOR CARBONATOR (TESTABLE)	
⊕	BACKFLOW PREVENTER (MAIN WATER SUPPLY)	BFP
●	STUB OUT	

WATER FIXTURE UNITS PER CPC 2022 TABLE 610.3					
(N) OR (E)	DESCRIPTION	QNTY	WFUs	TOTAL	SIZE
N	WATER CLOSET	7	2.5	17.5	3/4
N	LAVATORY	13	1.0	13.0	3/4
N	KITCHEN SINK	2	3.0	6.0	3/4
N	LAUNDRY SINK	1	2.0	2.0	3/4
N	DISHWASHER	2	4.0	8.0	3/4
N	CLOTHES WASHER	1	1.5	1.5	3/4
N	TUB/SHOWER COMBO	2	4.0	8.0	3/4
N	SHOWER	4	2.5	10.0	3/4
N	JACUZZI	2	6.0	12.0	3/4
N	WASHER/DRYER COMBO	0	1.5	0.0	3/4
N	HOSE BIBB	4	2.5	10.0	3/4
N	STEAM ROOM	0	5	0.0	3/4
		TOTAL:		88.0	

DISTANCE OF MOST REMOTE FIXTURE:		144.0	FROM POINT OF CONNECTION
PER CPC TABLE	610.4	COLUMN:	200
SIZE OF MAIN WATER LINE:		2"ø	

PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043



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WATER PLAN
1ST FLOOR

CVEAS JOB #:

DATE: 3/1/2023

PLANNING SUBMITTAL #: XX-XXXX

PLAN CHECK SUBMITTAL #: XX-XXXX

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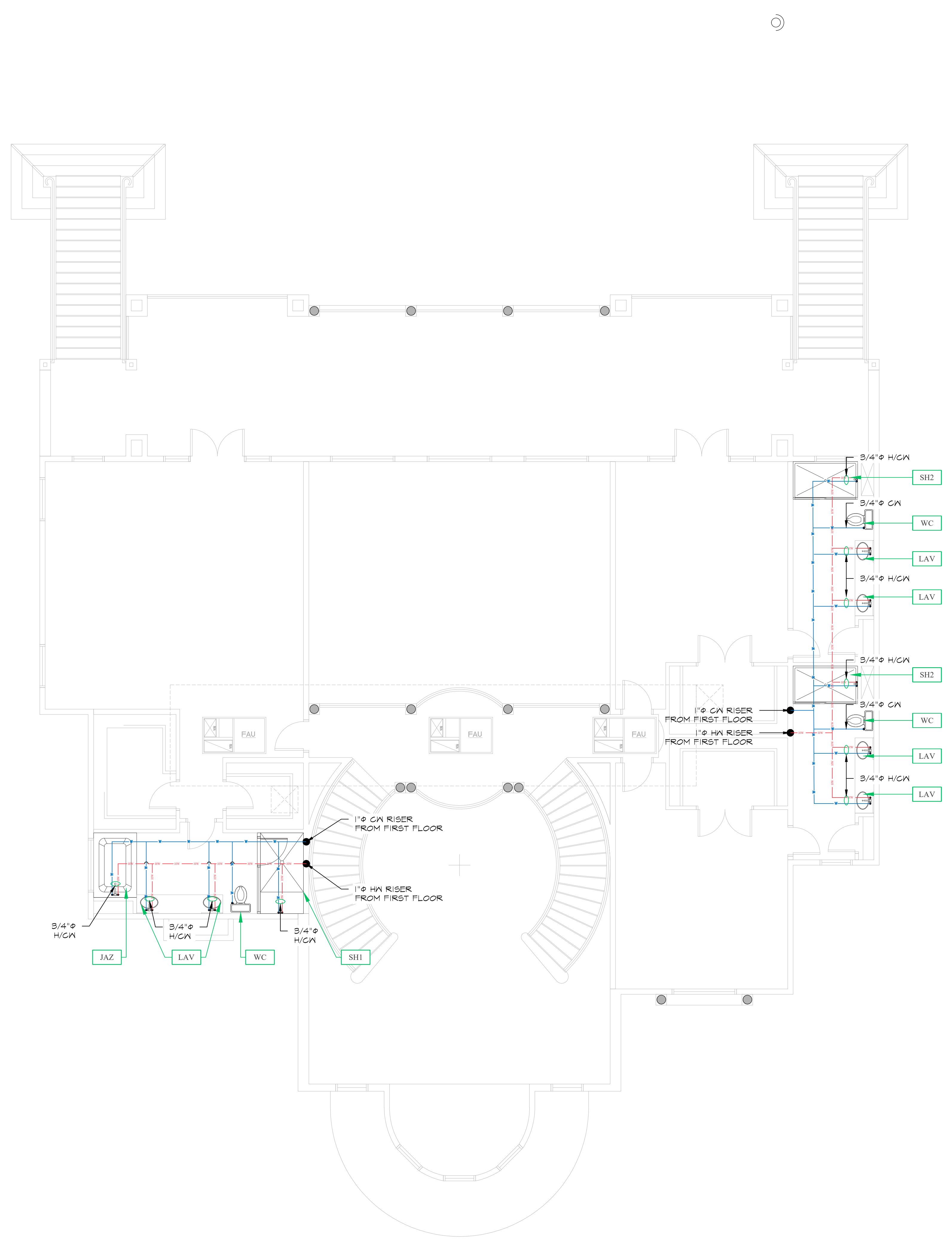
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CIVIL ENGINEERING • LAND SURVEYING • CONSULTING • STRUCTURAL DESIGN • ARCHITECTURAL DRAFTING • COMMERCIAL & RESIDENTIAL BUILDING DESIGN • PLANNING & PROJECT MANAGEMENT

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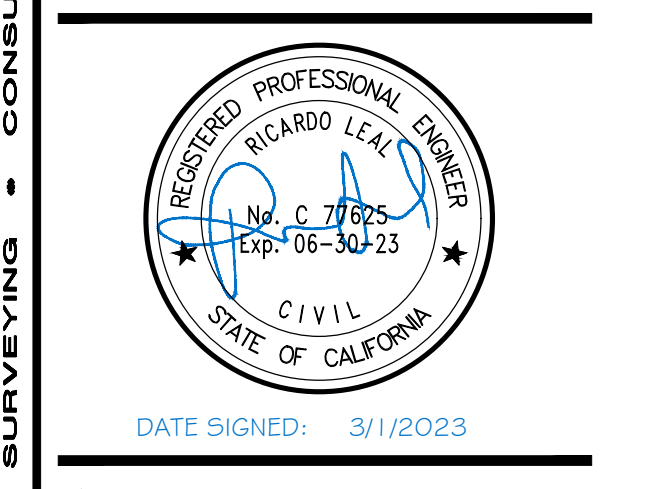
WATER PLAN - 2ND FLOOR
SCALE: 3/8" = 1'-0"

PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
---	CO2 LINE	
----	VENT PIPE (ABS)	S
----	WASTE LINE (ABS)	S
----	HOT WATER LINE	HW
----	COLD WATER LINE	CW
----	GAS LINE	GAS
---	F-TRAP	FT
---	AUTOMATIC SOLENOID GAS VALVE	ASSV
---	GAS SHUT-OFF VALVE	GSOV
---	WALL CLEANOUT	CO
---	FLOOR CLEANOUT	FCO
---	VENT PIPE & VENT THRU ROOF	VP_VYTR
---	HOSE BIBB	HB
---	BACKFLOW PREVENTER FOR CARBONATOR (TESTABLE)	
---	BACKFLOW PREVENTER (MAIN WATER SUPPLY)	BFP
●	STUB OUT	

WATER FIXTURE UNITS PER CPC 2022 TABLE 610.3					
(N) OR (E)	DESCRIPTION	QNTY	WFU _s	TOTAL	SIZE
N	WATER CLOSET	7	2.5	17.5	3/4"
N	LAVATORY	13	1.0	13.0	3/4"
N	KITCHEN SINK	2	3.0	6.0	3/4"
N	LAUNDRY SINK	1	2.0	2.0	3/4"
N	DISHWASHER	2	4.0	8.0	3/4"
N	CLOTHES WASHER	1	1.5	1.5	3/4"
N	TUB/SHOWER COMBO	2	4.0	8.0	3/4"
N	SHOWER	4	2.5	10.0	3/4"
N	JACUZZI	2	6.0	12.0	3/4"
N	WASHER/DRYER COMBO	0	1.5	0.0	3/4"
N	HOSE BIBB	4	2.5	10.0	3/4"
N	STEAM ROOM	0	5	0.0	3/4"
		TOTAL:		88.0	

DISTANCE OF MOST REMOTE FIXTURE:	199.0	FROM POINT OF CONNECTION
PER CPC TABLE	610.4	COLUMN:
SIZE OF MAIN WATER LINE:	2"ø	

PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043



Revisions	Date
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WATER PLAN 2ND FLOOR

CVEAS JOB #:

DATE: 3/1/2023

PLANNING SUBMITTAL #: XX-XXXX

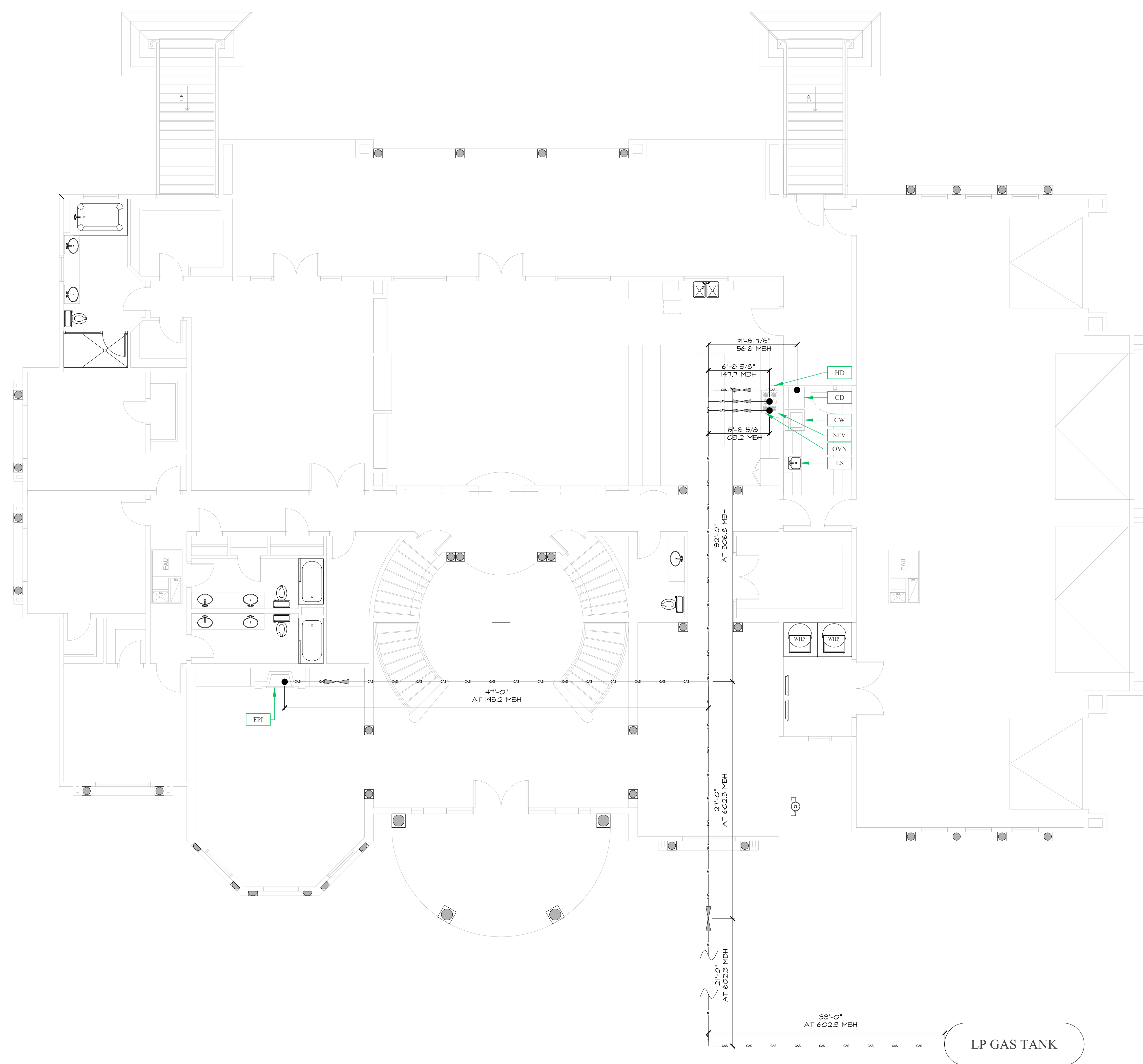
PLAN CHECK SUBMITTAL #: XX-XXXX

DRAWN BY:

CHECKED BY:

SCALE:

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GAS PLAN - 1ST FLOOR
SCALE: 3/16" = 1'-0"

PLUMBING LEGEND		
SYMBOL	ITEM	ABBR.
---	CO2 LINE	
-----	VENT PIPE (ABS)	S
-----	WASTE LINE (ABS)	S
---	HOT WATER LINE	HW
---	COLD WATER LINE	CW
---	GAS LINE	GAS
---	P-TRAP	PT
⊖	AUTOMATIC SOLENOID GAS VALVE.	ASSV
⊖	GAS SHUT-OFF VALVE	GSOV
⊙	WALL CLEANOUT	CO
⊙	FLOOR CLEANOUT	FCO
⊙	VENT PIPE 4 VENT THRU ROOF	VP, VTR
•	WATER CONNECTION	WC
▼	HOSE BIBB	HB
→ ←	BACKFLOW PREVENTER FOR CARBONATOR (TESTABLE)	
→ ←	BACKFLOW PREVENTER (MAIN WATER SUPPLY)	BFP
●	STUB OUT	

GAS PIPE SIZING CALCULATIONS						
(N) OR (E)	DESCRIPTION	QNTY	BTU/H	TOTAL	MBTH	SIZE
N	OVEN	2	45,000	90,000	102.3	3/4"φ
N	FIREPLACE INSERT - GAS	1	85,000	85,000	147.2	1"φ
N	RANGE/STOVE	2	85,000	170,000	147.7	3/4"φ
N	CLOTHES DRYER	2	25,000	50,000	56.8	3/4"φ
			TOTAL:	265,000	BTU/H	
265,000	BTU/H	=	240.4	GPH	602.3	MBH
100						
FROM LP GAS TANK TO GAS SHUT-OFF VALVE						
TOTAL LENGTH:		54'				
PER CPC TABLE:	1216.2(21)	ROW:	150			
SIZE OF MAIN GAS LINE:		1 1/4"φ				
FROM GAS SHUT-OFF VALVE TO MOST REMOTE FIXTURE						
TOTAL LENGTH:		74'				
PER CPC TABLE:	1216.2(21)	ROW:	150			
SIZE OF MAIN GAS LINE:		1 1/4"φ				

CVEAS
CENTRAL VALLEY
ENGINEERING & SURVEYING, INC.

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PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043

DATE SIGNED: 2/28/2023

Revisions	Date
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GAS PLAN
1ST FLOOR

CVEAS JOB #:

DATE: 2/28/2023

PLANNING SUBMITTAL #: XX-XXXX

PLAN CHECK SUBMITTAL #: XX-XXXX

DRAWN BY:

CHECKED BY:

SCALE:

P4.0

SPECIFICATIONS

1. A. PROVIDE ALL HEATING, VENTILATING AND AIR CONDITIONING ITEMS INDICATED ON THE DRAWINGS, DESCRIBED IN THIS SPECIFICATION, OR REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. HVAC WORK INCLUDES THE FOLLOWING:
 1. HVAC UNITS AND ACCESSORIES;
 2. EXHAUST FANS;
 3. DUCTS, FILTERS, DAMPERS, GRILLES, REGISTERS, DIFFUSERS;
 4. CONTROLS, INCLUDING 24 VOLT CONTROL WIRING AND 120/24 VOLT TRANSFORMERS;
 5. CONDUIT FOR LOW VOLTAGE WIRING;
 6. INSULATION FOR DUCTS AS REQUIRED IN THIS SECTION;
 7. CONDENSATE PIPING AND APPURTENANCES;
 8. FLASHING FOR HVAC SYSTEMS THAT PENETRATE WALLS AND ROOFS;
- B. RELATED WORK DESCRIBED ELSEWHERE:
 1. LINE VOLTAGE WIRING, CONDUIT AND DISCONNECT SWITCHES BY ELECTRICAL.
2. COMPLY WITH ALL PERTINENT CODES, ORDINANCES AND REGULATIONS, AND ALL PERTINENT RECOMMENDATIONS CONTAINED IN "HVAC DUCT CONSTRUCTION STANDARDS" AS PUBLISHED BY SMACNA, THE UNIFORM MECHANICAL CODE (UMC), LATEST EDITION, AND TITLE 24 BUILDING STANDARDS OF THE STATE OF CALIFORNIA.
3. FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR REQUIRED TO COMPLY WITH THE ABOVE CODES AND STANDARDS, EVEN THOUGH THE WORK MAY NOT BE DESCRIBED IN THE CONTRACT DOCUMENTS. WHERE THE REQUIREMENTS REQUIREMENTS OF THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE ABOVE CODES AND STANDARDS, THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.
4. AFTER AWARD OF CONTRACT AND BEFORE COMMENCING WORK, IF REQUESTED BY PROJECT ENGINEER, SUBMIT SIX COPIES OF THE FOLLOWING TO THE ARCHITECT FOR APPROVAL. SUBMITTALS SHALL BE IN BROCHURE FORM WITH INDEX AND SELECTED ITEMS CLEARLY DESIGNATED AND REFERENCED TO THE APPROPRIATE EQUIPMENT TAG NUMBER:
 - A. COMPLETE MATERIALS LIST OF ALL ITEMS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION;
 - B. CATALOG CUTS AND OTHER DATA REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONTRACT DOCUMENTS.
5. COOPERATE WITH OTHER TRADES IN ORDER THAT ALL SYSTEMS IN THE WORK MAY BE INSTALLED IN THE BEST ARRANGEMENT.
6. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE INSTALLED. CORRECT CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
7. AVOID INTERFERENCE WITH STRUCTURE, AND WITH WORK OF OTHER TRADES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. INSTALL ACCESSIBLE PARTS, INCLUDING EQUIPMENT, COILS, VALVES, DAMPERS, CONTROLS, AND FILTERS WITH ADEQUATE CLEARANCE FOR INSPECTION, ADJUSTMENTS, REPAIR, AND REPLACEMENT.
8. ALL OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, SHALL PROVIDED BY THE CONTRACTOR SUBJECT TO ACCEPTANCE BY THE ENGINEER.
9. FURNISH ACCESS DOORS AND PANELS AT WALLS, CEILINGS AND DUCTWORK FOR ACCESS TO HARDWARE, CONTROLS, OPERATOR, DRIVE MECHANISMS AND VOLUME DAMPERS WHERE IT IS NECESSARY.
10. SOFT FLEXIBLE DUCT: CODY-WEST TYPE NIL, CLASS 1 RATING WITH R-VALUE OF R8, MINIMUM.
11. INSULATION: FOIL-FACED FIBERGLASS, OWENS CORNING TYPE 75 OR EQUAL, 1-1/2" THICK. FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
12. DUCT LINER: FOR EXTERIOR DUCTS: FIBERGLASS 1-1/2" THICK WITH FIRE RATED BLACK COATING, 1-1/2 LB. PER FT3 MINIMUM DENSITY, OWENS CORNING AEROFLEX TYPE 150. FOR OTHER LOCATIONS SHOWN ON DRAWINGS: AEROFLEX TYPE 150, AS ABOVE, EXCEPT 1" THICK. FLAME SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50. AN EPA-APPROVED BIOCIDES IN THE AIRSTREAM COATING ENABLES OWENS CORNING DUCT LINERS TO RESIST FUNGAL OR BACTERIAL GROWTH WHEN SUBJECTED TO MICROBIAL ATTACK DESCRIBED IN ASTM C 665 AND STANDARD PRACTICES ASTM G 21 (FUNGUS TEST) AND G 22 (BACTERIA TEST).
13. CONDENSATE DRAIN PIPING: USE TYPE "L" COPPER, SWEAT FITTINGS TO REMOVE CONDENSATE FROM ROOFTOP AND TERMINATE IN SEWER SYSTEM AT APPROVED RECEPTOR
14. PROVIDE APPROVED FIRE AND SMOKE RATED FLEXIBLE CONNECTIONS BETWEEN FANS AND DUCTS.
15. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
17. MAKE ALL DUCT ELBOWS RIGHT ANGLE TYPE WITH DOUBLE-THICKNESS TURNING VANES OR CONSTRUCT WITH A CENTERLINE RADIUS 1-1/2 TIMES THE DUCT WIDTH.
18. DO NOT CUT INTO OR REDUCE THE SIZE OF ANY STRUCTURAL MEMBER WITHOUT THE PERMISSION OF THE ARCHITECT.
19. PROVIDE WEATHER-PROOF FLASHINGS AT ALL DUCT AND PIPE PENETRATIONS THROUGH THE BUILDING WALLS AND ROOF. AS A MINIMUM, FLASHINGS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. FLASHINGS SHALL BE GUARANTEED WEATHERPROOF FOR THE DURATION OF THE GUARANTEE.
20. SUPPORT ALL HVAC UNITS, DUCTWORK, PIPING AND OTHER APPURTENANCES. DO NOT SCREW OR DRIVE FASTENERS INTO NON-STRUCTURAL COMPONENTS SUCH AS ROOF DECKS OR WALLS.
21. THOROUGHLY CLEAN ALL COMPONENTS AND REMOVE ALL DIRT, SCALE, OIL, AND OTHER FOREIGN SUBSTANCES. PROVIDE CLEAN AIR FILTERS FOR ALL EQUIPMENT.
22. NOTIFY PROJECT ENGINEER AT LEAST 24 HOURS PRIOR TO COVERING OR ENCLOSING WORK. DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS SECTION TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN OBSERVED AND ACCEPTED BY THE PROJECT ENGINEER AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
23. PERFORM ALL TESTS NECESSARY TO DEMONSTRATE THE INTEGRITY OF THE COMPLETED INSTALLATION TO THE APPROVAL OF THE ENGINEER AND ALL OTHER AUTHORITIES HAVING JURISDICTION. MAKE ALL ADJUSTMENTS NECESSARY AND BALANCE THE COMPLETED SYSTEM IN ACCORDANCE WITH THE DATA SHOWN. BALANCE THE SYSTEMS IN ACCORDANCE WITH NEBB OR AABC STANDARDS. BALANCING SHALL BE DONE BY AN INDEPENDENT LICENSED (BY NEBB OR AABC) CONTRACTOR.

MAKE THE FOLLOWING TESTS AND SUBMIT REPORTS TO THE ARCHITECT:
 - A. AIR VOLUME AT EACH SUPPLY, RETURN AND EXHAUST OUTLET OR INLET.
 - B. VARIABLE VOLUME VALVE MAXIMUM AND MINIMUM FLOW RATES.
 - C. TOTAL CFM AND TOTAL STATIC PRESSURE OF EACH SUPPLY AND EXHAUST FAN. TEST EXHAUST FANS WITH ROOM DOORS CLOSED.
 - D. MOTOR SPEED, FOR MULTIPLE SPEED FANS (E.G. HIGH, MEDIUM, LOW).
 - E. OUTSIDE AIR TO EACH HVAC UNIT AND SUPPLY FAN.
24. ANY NEW INSTALLATION SHALL BE WARRANTED FOR A PERIOD OF ONE (1) YEAR BEGINNING WITH OWNER'S ACCEPTANCE OF THE WORK. ALL LABOR AND MATERIALS NECESSARY TO REPAIR OR REPLACE THE SYSTEM, OR PORTIONS THEREOF, DURING THAT TIME SHALL BE WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM THE REPAIR OR REPLACEMENT.
25. INSTRUCT OWNER'S REPRESENTATIVE IN THE OPERATION OF THE SYSTEMS.
26. PROVIDE ONE REPRODUCIBLE AS-BUILT DRAWING AND AN OPERATION AND MAINTENANCE MANUAL. AS A MINIMUM, THE MANUAL SHALL CONTAIN:
 - A. A COMPLETE LIST OF ALL EQUIPMENT AND APPURTENANCES WITH EQUIPMENT DESIGNATIONS (PER DRAWINGS), MANUFACTURERS, AND CATALOG NUMBERS.
 - B. COPIES OF MANUFACTURERS' BROCHURES AND INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT, INCLUDING REPLACEMENT PARTS LISTS.
 - C. TYPED SYSTEM OPERATION AND MAINTENANCE INSTRUCTIONS, INCLUDING INSPECTION, LUBRICATION, AND SERVICE INSTRUCTIONS AND SCHEDULES.
 - D. LIST OF NAMES, ADDRESSES AND PHONE NUMBERS OF DISTRIBUTORS OF ALL EQUIPMENT AND APPURTENANCES.
 - E. MANUFACTURERS' WARRANTIES.

GENERAL NOTES

1. WHERE REQUIRED, SLOPE CONDENSATE DRAIN 1/8" PER FOOT (MINIMUM). PROVIDE A 5" DEEP TRAP AT THE AIR HANDLER
2. PROVIDE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT THAT IS SUSPENDED FROM OR MOUNTED ON VIBRATION ISOLATORS.
3. PROVIDE MINIMUM OUTSIDE AIR TO HVAC UNITS PER TITLE 24 DOCUMENTS.
4. MAINTAIN A MINIMUM OF 10'-0" CLEAR BETWEEN HVAC EQUIPMENT AIR INTAKES AND PLUMBING VENTS OR EXHAUST OUTLETS.
5. SHUT DOWN THE AC-UNITS SUPPLY FAN WHEN THE DUCT SMOKE DETECTOR DETECTS SMOKE, WHERE SMOKE DETECTORS ARE REQUIRED BY CODE.
6. INSTALL NEW TITLE 24 PROGRAMMABLE THERMOSTATS IF REQUIRED BY SCOPE OF WORK.
7. INSTALL NEW DUCTS AS SHOWN INDICATED SIZES ON THE DRAWINGS SHALL BE NET INSIDE DIMENSIONS.
8. COORDINATE LOCATIONS OF ALL EQUIPMENT WITH OTHER TRADES. REFER TO LIGHTING AND FIRE CONTROL PLANS TO AVOID DISCREPANCIES WITH DIFFUSER LOCATIONS.

Duct system design statement:
Duct system was designed using ASHRAE equal friction method.
ALL HVAC DUCTS LOCATED IN UNCONDITIONED SPACES SHALL HAVE R6 INSULATION.

HVAC CEILING PLAN SYMBOLS

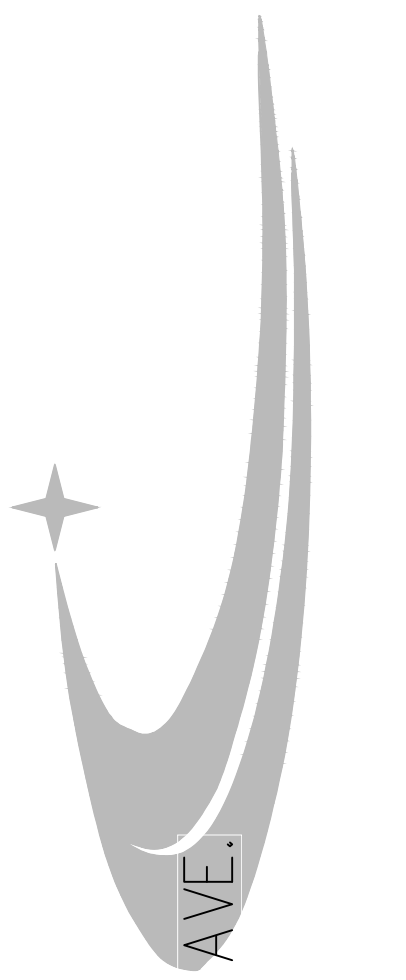
- 12"x12" EXHAUST GRILL-MATCH CEILING TYPE
- (N) TITLE 24 APPROVED THERMOSTAT
- 12X12" SUPPLY DIFFUSER.
- 24"x24" RETURN GRILL. KRUEGER 6390 OR SIMILAR

HVAC EQUIPMENT SCHEDULE																
DESCRIPTION	SYMBOL	UNIT#	AREA SERVED	MANUFAC	MODEL	TON	CFM	SEER/EER	COOLING	HEATING	POWER	MCA/MOCP	DIMENSIONS H x W x L	WEIGHT LBS	NOTES	OSA CFM
<input checked="" type="checkbox"/> INDOOR UNIT	FC	2,3	1ST FLOOR	TEMPSTAR	N9MSE1002120A	5	2000	14/11.7	60/48	60	120/1	7/15	35x21x30	169	OR EQUAL PRODUCT	0
<input checked="" type="checkbox"/> OUTDOOR UNIT	CU	2,3	1ST FLOOR	TEMPSTAR	NH4A4-60	5	-	14/11.7	60/48	HSPF=8.5	208/1	34/50	36x35x35	220	OR EQUAL PRODUCT	
<input checked="" type="checkbox"/> INDOOR UNIT	FC	1	1ST FLOOR	TEMPSTAR	N9MSE1002120A	5	2000	14/11.7	60/48	60	120/1	7/15	35x21x30	169	OR EQUAL PRODUCT	
<input checked="" type="checkbox"/> OUTDOOR UNIT	CU	1	1ST, FLOOR	TEMPSTAR	NH4A4-60	5	-	14/11.7	60/48	HSPF=8.5	208/1	34/50	36x35x35	220	OR EQUAL PRODUCT	
<input checked="" type="checkbox"/> INDOOR UNIT	FC	4,5	2nd FLOOR	TEMPSTAR	N9MSE0601410A	2.5	1000	14/11.7	30/20	30	120/1	6/15	35x25x25	127	OR EQUAL PRODUCT	
<input checked="" type="checkbox"/> OUTDOOR UNIT	CU	4,5	2nd FLOOR	TEMPSTAR	NH4A4-30	2.5	-	14/11.7	30/20	HSPF=8.5	208/1	18/30	27x25x25	183	OR EQUAL PRODUCT	

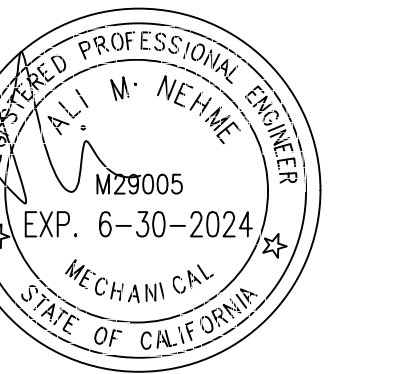
HVAC EQUIPMENT SCHEDULE										
DESCRIPTION	SYMBOL	TYPE	AREA SERVED	MANUFAC.	MODEL	CFM	POWER	HP	WGHT	NOTES
						30.25"WC				
<input checked="" type="checkbox"/> CEILING MNT EX FAN	EF	1	RESTROOM	AIRKING	EVDH	120	120V	1 AMP	8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input checked="" type="checkbox"/> CEILING MNT EX FAN	EF	2	RESTROOM	AIRKING	ESB80S	80	120V	1 AMP	8	<input type="checkbox"/> <input type="checkbox"/>

- INCLUDE BACKDRAFT DAMPER AND ROOF CAP
- MODEL INCLUDES HUMIDITY CONTROL .
- ENERGY STAR MODEL

PROJECT



NEW RESIDENCE FOR:
GURDEEP DHADWAL
PALM AVE. AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-012



Revision	Date
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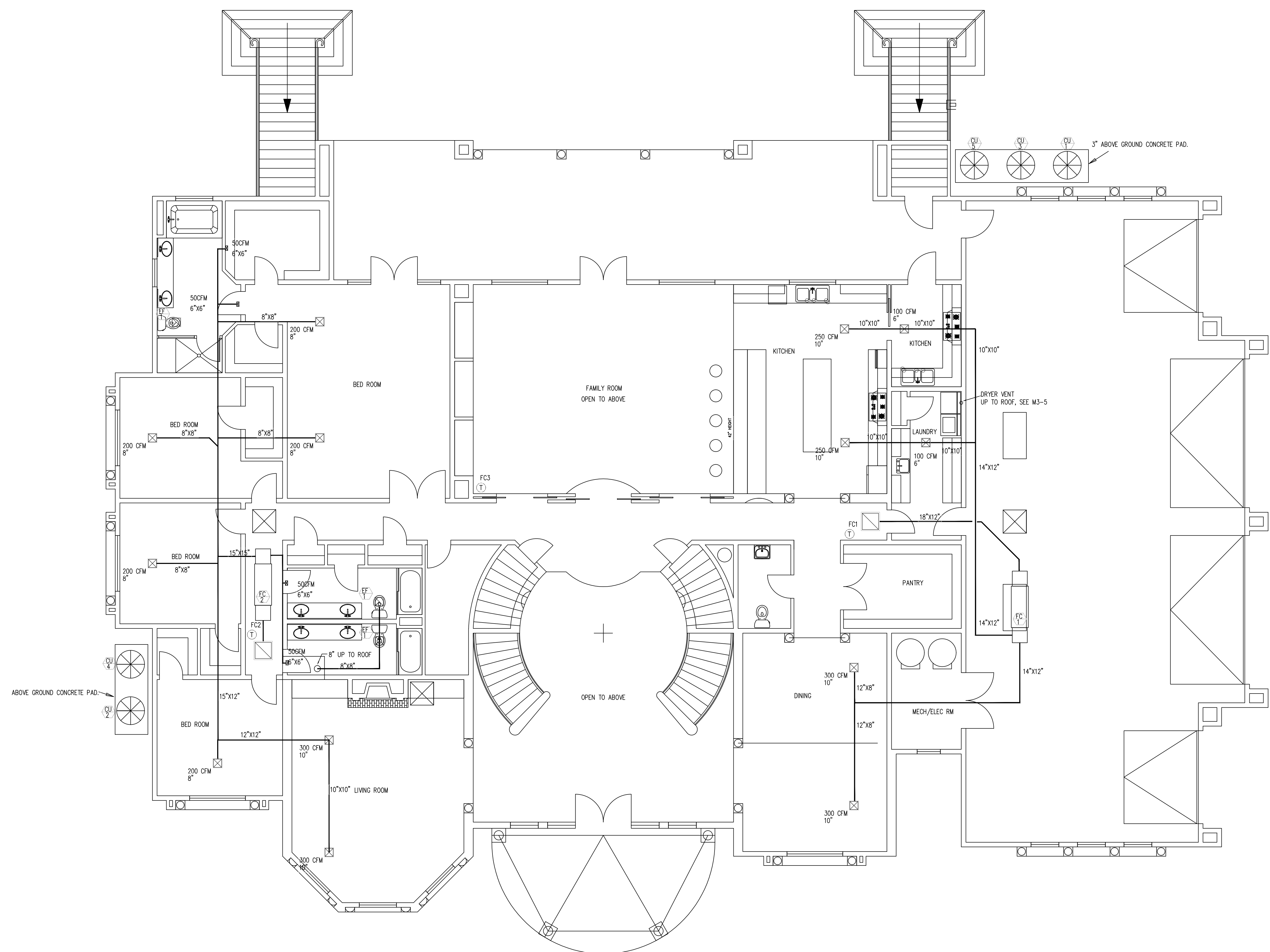
HVAC SCHEDULES

CVEAS JOB #:	16067
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SCALE:	AS NOTED

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PROJECT

NEW RESIDENCE FOR:
 GURDEEP DHADWAL
 PALM AVE. AND DOUGHERTY AVE.
 MORGAN HILLS, CA 95037
 APN: 712-27-012



Revisions	Date
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HVAC 1ST FLOOR

CVEAS JOB #:	16067
DATE:	1/18/2023
DRAWN BY:	XX
CHECKED BY:	RL
SCALE:	AS NOTED

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PROJECT

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 MORGAN HILLS, CA 95037
 APN: 712-27-012

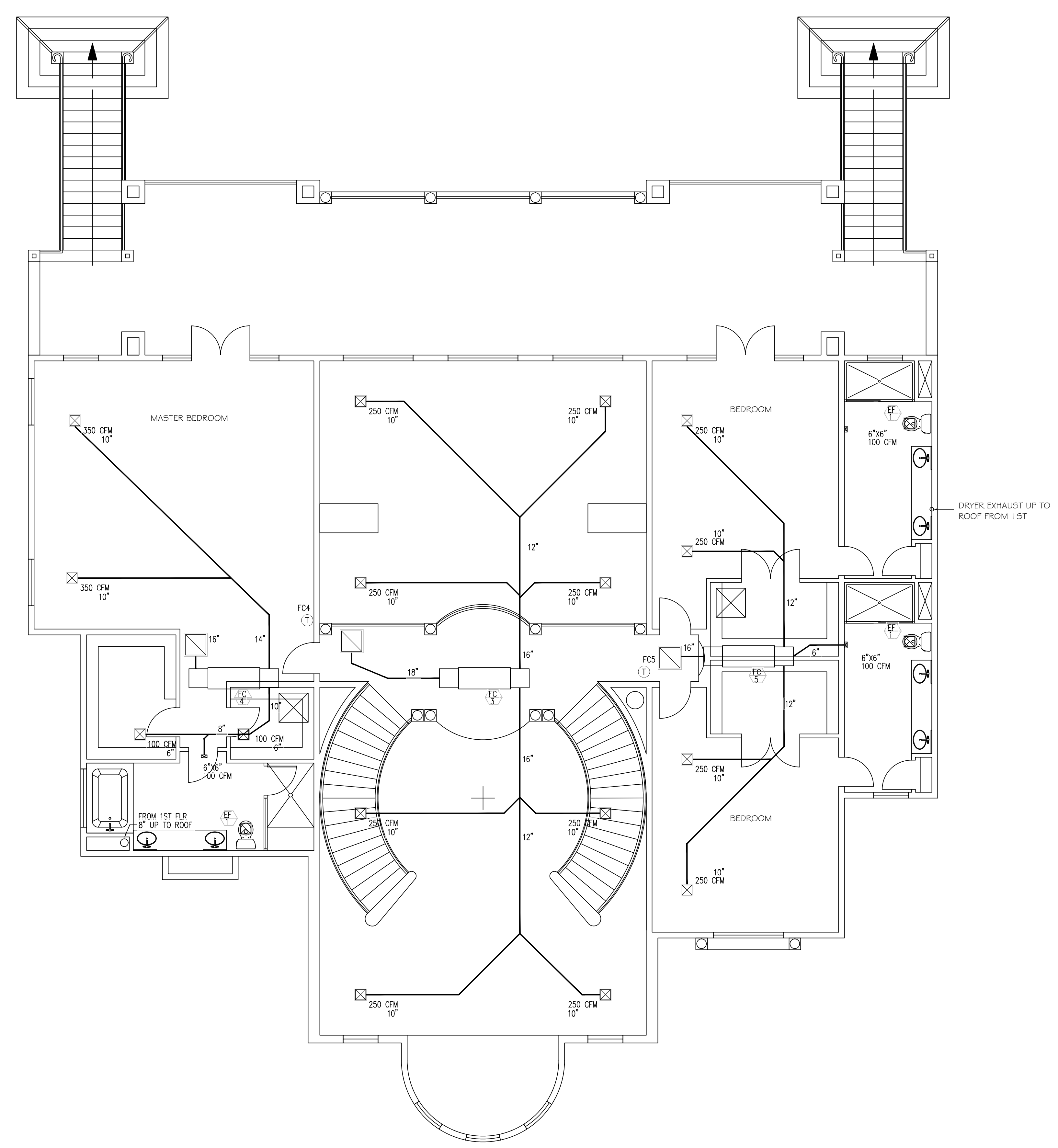


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HVAC
2ND FLOOR

CVEAS JOB #:	16067
DATE:	1/18/2023
DRAWN BY:	XX
CHECKED BY:	RL
SCALE:	AS NOTED

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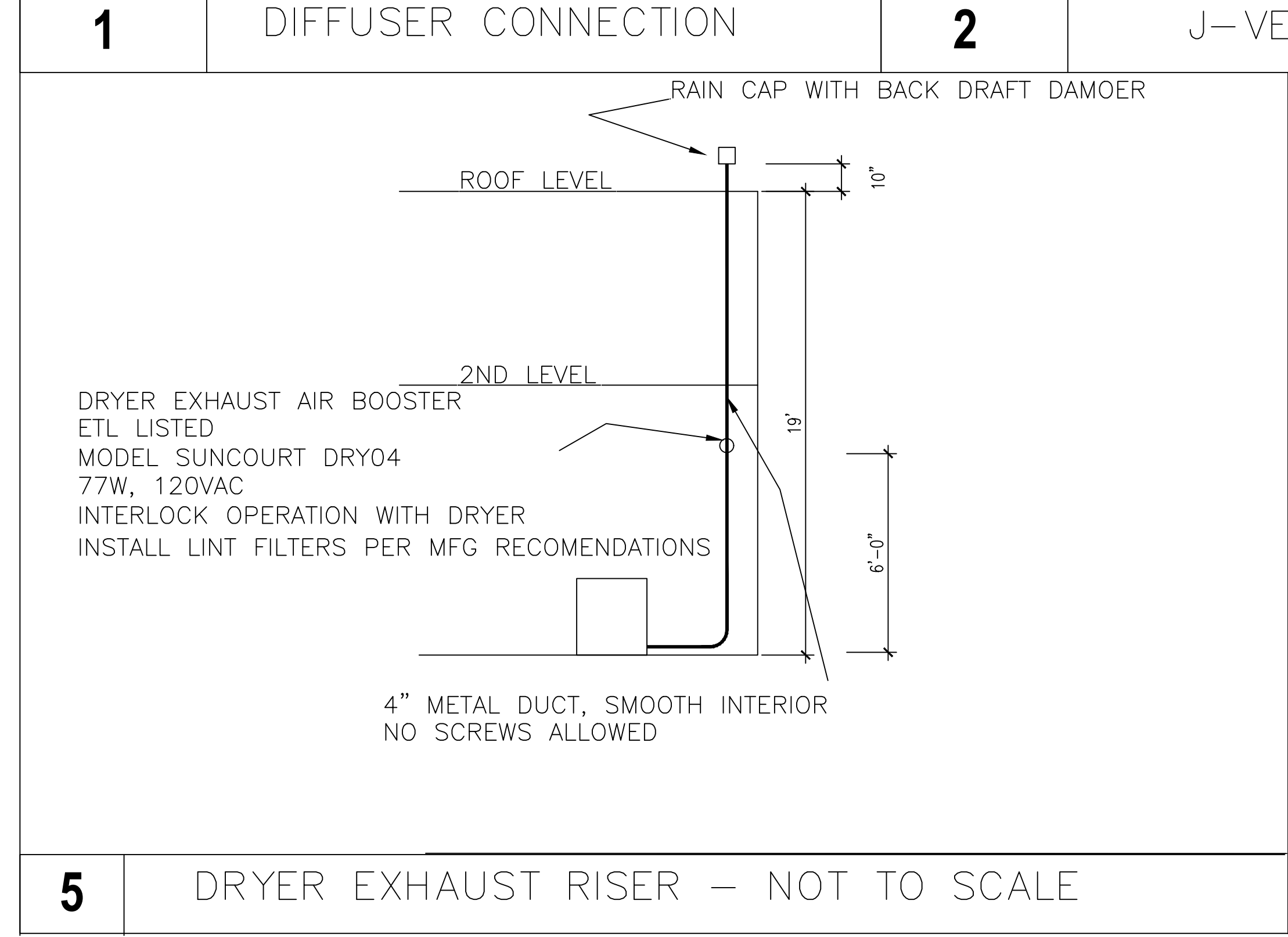
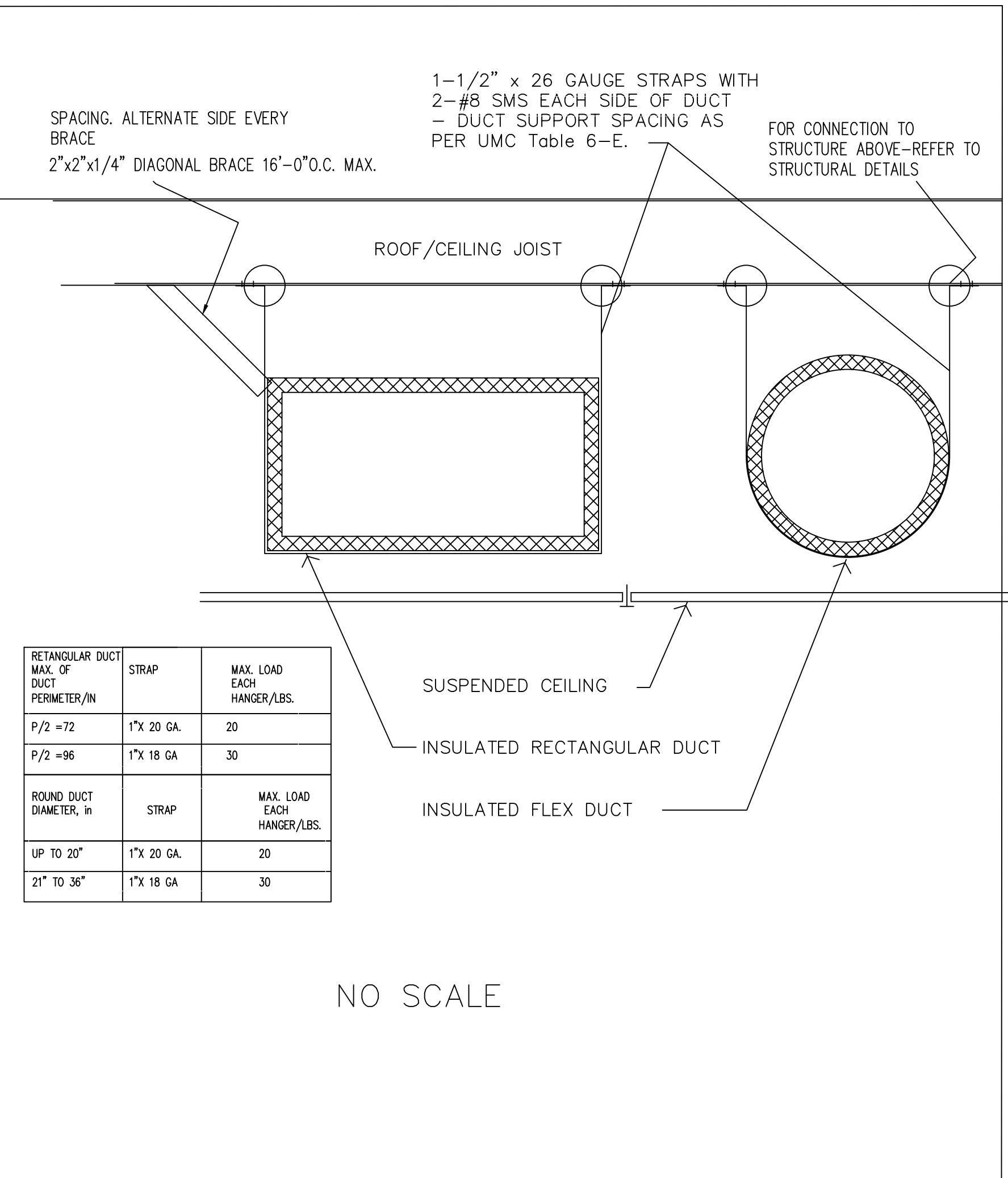
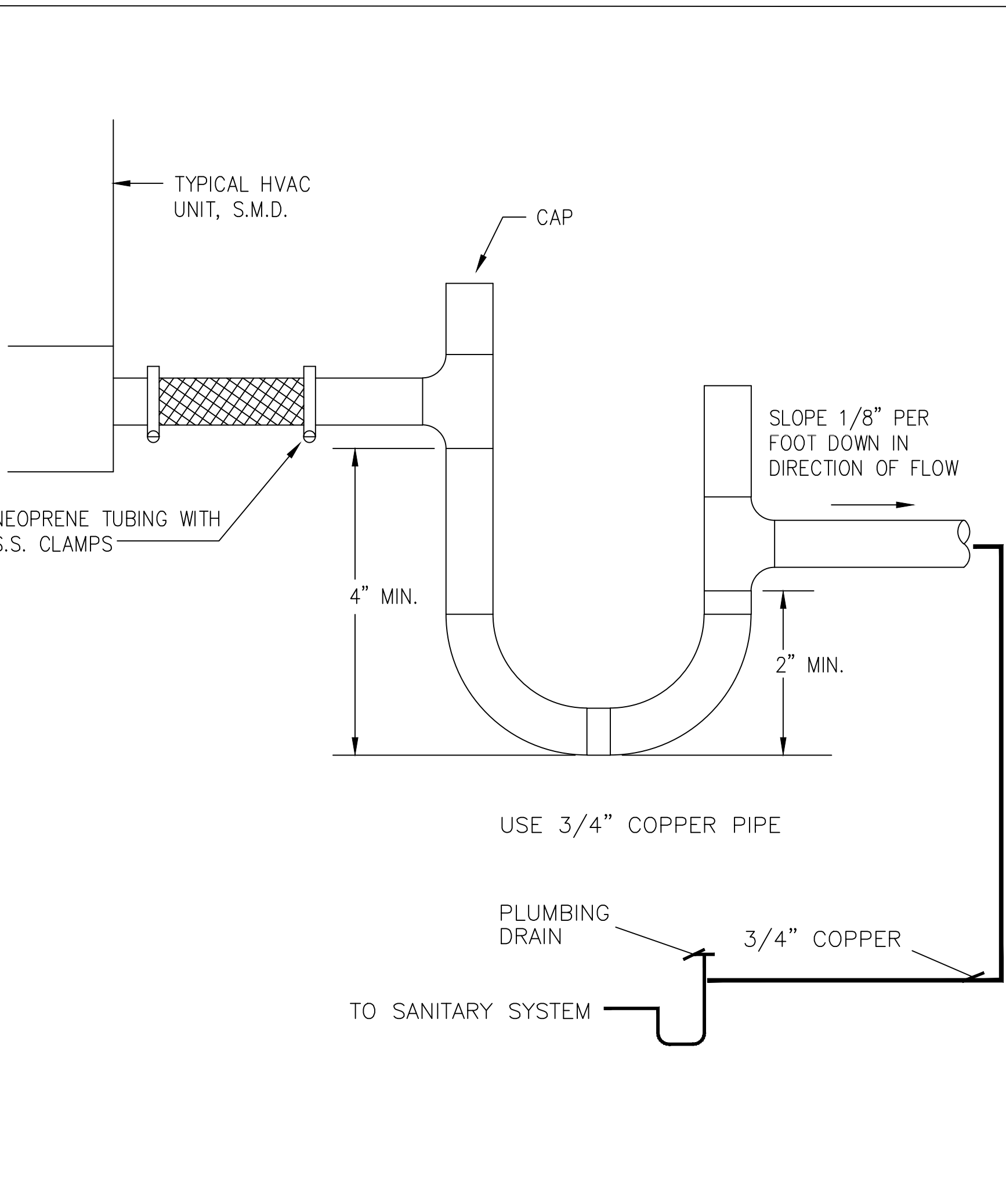
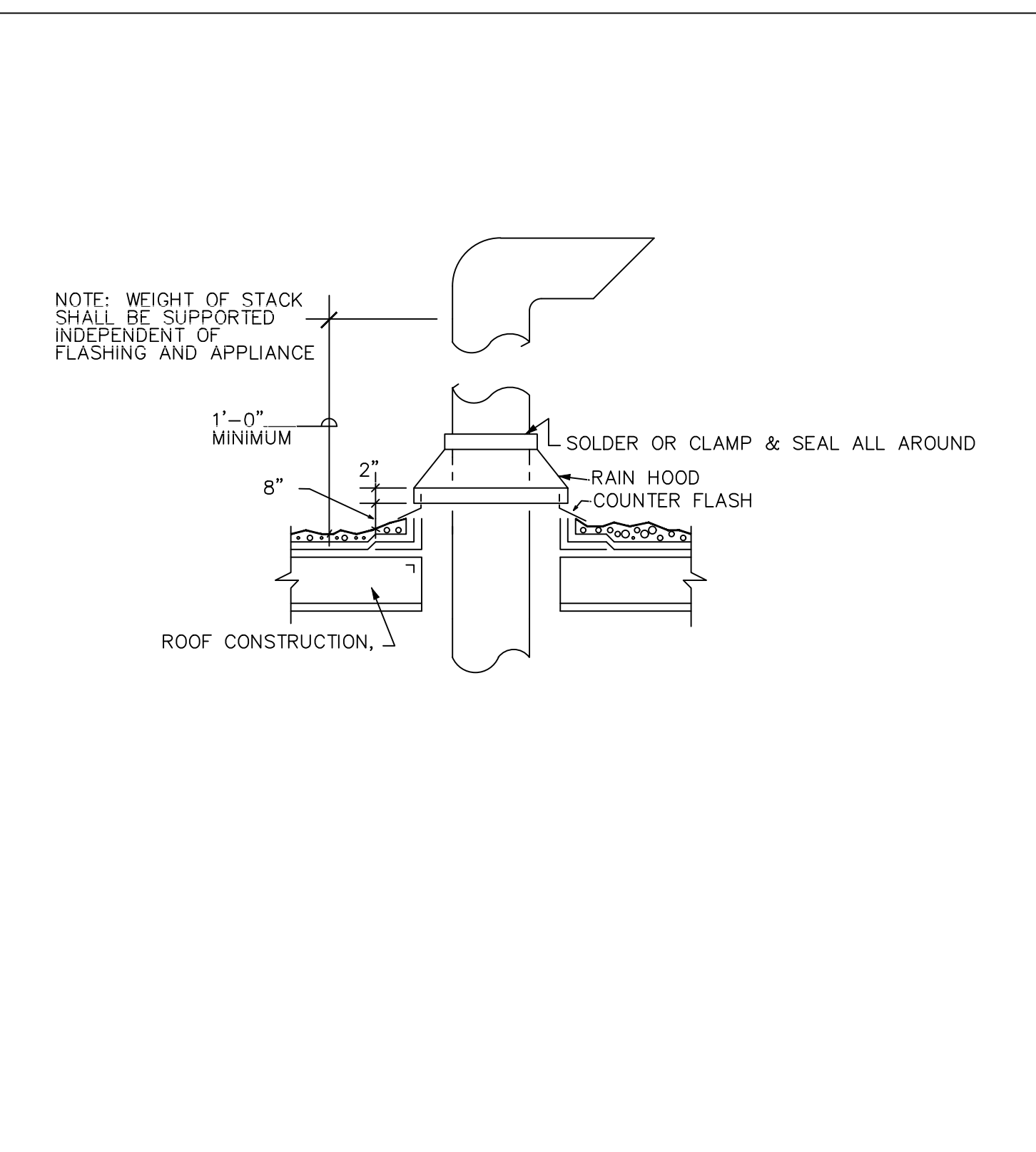
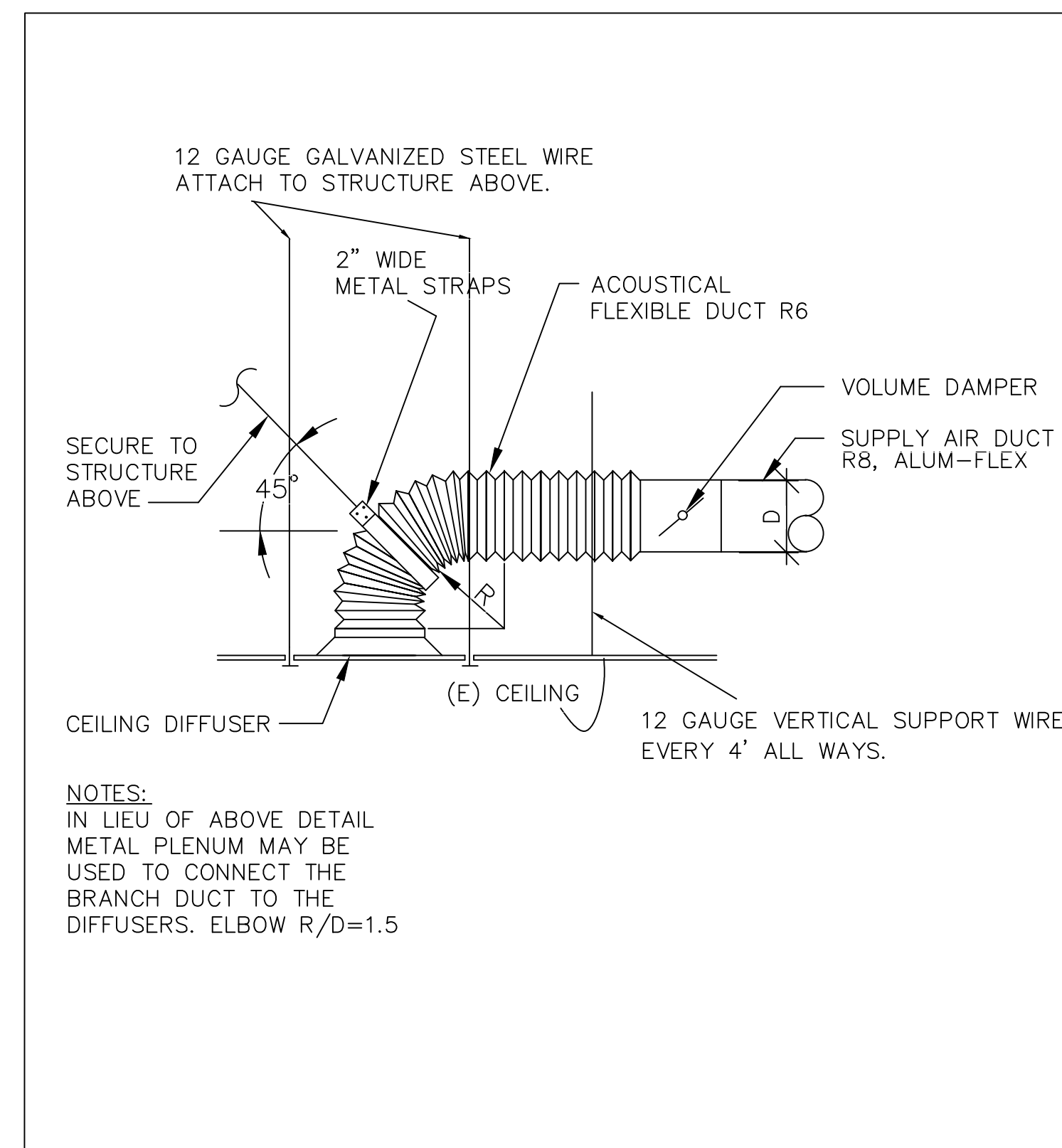
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Revisions	Date
△ --	--
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△	
△	

HVAC DETAILS

CVEAS JOB #:	16067
DATE:	1/18/2023
DRAWN BY:	XX
CHECKED BY:	RL
SCALE:	AS NOTED



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CIVIL ENGINEERING - LAND SURVEYING - CONSULTING - STRUCTURAL DESIGN - ARCHITECTURAL DRAFTING - COMMERCIAL & RESIDENTIAL BUILDING DESIGN - PLANNING & PROJECT MANAGEMENT

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GENERAL INFORMATION			
01	Project Name	NEW HOUSE	
02	Run Title		
03	Project Location	PALM AVE AND DOUGHETRY	
04	City	05	Standards Version
06	Zip code	07	Software Version
08	Climate Zone	09	Front Orientation (deg/ Cardinal)
10	Building Type	11	Number of Dwelling Units
12	Project Scope	13	Number of Bedrooms
14	Addition Cond. Floor Area (ft ²)	15	Number of Stories
16	Existing Cond. Floor Area (ft ²)	17	Fenestration Average U-factor
18	Total Cond. Floor Area (ft ²)	19	Glazing Percentage (%)
20	ADU Bedroom Count	n/a	

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ENERGY DESIGN RATINGS						
Design	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR3total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR3total)
Standard Design	44	48.7	29.6			
Proposed Design	25.2	43.2	17.8	18.8	5.5	11.8

RESULT³: PASS

1. Efficiency EDR includes improvements like a better building envelope and more efficient equipment.
2. Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries.
3. Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded.

- Standard Design PV Capacity: 4.18 kWdc
- PV System resized to 7.76 kWdc (a factor of 1.939) to achieve 'Maximum PV for Compliance Credit' PV scaling

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kbtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kWh/ft ² -yr)	Proposed Design Source Energy (EDR1) (kbtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kWh/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	5.23	22.96	2.32	17.84	2.91	5.12
Space Cooling	0.1	6.15	0.13	8.39	-0.03	-2.24
IAQ Ventilation	0.28	2.95	0.28	2.95	0	0
Water Heating	0.5	5.35	0.36	3.98	0.14	1.37
Self Utilization/Flexibility Credit				0		0
Efficiency Compliance Total	6.11	37.41	3.09	33.16	3.02	4.25
Photovoltaics	-0.47	-15.74	-0.87	-28.36		
Battery			0	0		
Flexibility						
Indoor Lighting	0.33	3.24	0.33	3.24		
Appl. & Cooking	0.87	5.53	0.87	5.55		
Plug Loads	1.05	10.92	1.05	10.92		
Outdoor Lighting	0.1	0.86	0.1	0.86		
TOTAL COMPLIANCE	7.99	42.22	4.57	25.37		

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ENERGY USE INTENSITY				
	Standard Design (kbtu/ft ² -yr)	Proposed Design (kbtu/ft ² -yr)	Compliance Margin (kbtu/ft ² -yr)	Margin Percentage
Gross EUI ¹	10.04	6.03	4.01	39.94
Net EUI ²	7.15	0.68	6.47	90.49

Notes
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Altitude (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff (%)	Annual Solar Access (%)
7.76	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

REQUIRED SPECIAL FEATURES											
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis:											
<ul style="list-style-type: none"> PV System: 7.76 kWdc Insulation below roof deck Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed 											

HERS FEATURE SUMMARY											
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2s and CF3s are required to be completed in the HERS Registry											
<ul style="list-style-type: none"> Indoor air quality ventilation Kitchen range hood Minimum Airflow Verified Refrigerant Charge Fan Efficacy Watts/CFM Verified heat pump rated heating capacity Duct leakage testing 											

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BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
NEW HOUSE	7840	1	6	2	0	1

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
1ST FLOOR	Conditioned	HVAC 1st floor	5430	8	DHW System HP	New
2nd FLOOR	Conditioned	HVAC 2nd floor	2410	8	DHW System HP	New

OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Altitude	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)
Exterior Wall BACK	1ST FLOOR	R-19 Wall-R	0	Back	920	140	90
Exterior Wall LEFT	1ST FLOOR	R-19 Wall-R	270	Left	780	82	90
Exterior Wall RIGHT	1ST FLOOR	R-19 Wall-R	90	Right	170	16	90
Exterior Wall FRONT	1ST FLOOR	R-19 Wall-R	180	Front	840	206	90
Exterior Wall BACK-2	2nd FLOOR	R-19 Wall-R	0	Back	780	172	90
Exterior Wall LEFT-2	2nd FLOOR	R-19 Wall-R	270	Left	675	40	90
Exterior Wall RIGHT-2	2nd FLOOR	R-19 Wall-R	90	Right	675	6	90
Exterior Wall FRONT-2	2nd FLOOR	R-19 Wall-R	180	Front	780	72	90
Ceiling (below attic)	1ST FLOOR	R-30 ROOF ATTIC	n/a	n/a	3020	n/a	n/a
Ceiling (below attic)	2nd FLOOR	R-30 ROOF ATTIC	n/a	n/a	2410	n/a	n/a
Interior Floor 1	2nd FLOOR	Construction Assembly 17	n/a	n/a	2000	n/a	n/a

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ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic	Asphalt Shingle Roof	Ventilated	4	0.1	0.85	Yes	No

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Altitude	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window HJDDH	Window	Exterior Wall BACK	Back	0	1	140	0.3	NFRC	0.23	NFRC			Bug Screen
Window GDDA	Window	Exterior Wall LEFT	Left	270	1	82	0.3	NFRC	0.23	NFRC			Bug Screen
Window A	Window	Exterior Wall RIGHT	Right	90	1	16	0.3	NFRC	0.23	NFRC			Bug Screen
Window DCBBCAAD	Window	Exterior Wall FRONT	Front	180	1	206	0.3	NFRC	0.23	NFRC			Bug Screen
Window GQQRQZQG	Window	Exterior Wall BACK-2	Back	0	1	172	0.3	NFRC	0.23	NFRC			Bug Screen
Window LNPP	Window	Exterior Wall LEFT-2	Left	270	1	40	0.3	NFRC	0.23	NFRC			Bug Screen
Window L	Window	Exterior Wall RIGHT-2	Right	90	1	6	0.3	NFRC	0.23	NFRC			Bug Screen
Window KLLXKMF	Window	Exterior Wall FRONT-2	Front	180	1	72	0.3	NFRC	0.23	NFRC			Bug Screen

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SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab On Grade 1	1ST FLOOR	5430	420	none	0	80%	No

OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall-R	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.069	Inside Finish: Gypsum Board Cavity / Frame: R-19 / 2x6 Exterior Finish: Wood Siding/sheathing/decking
Asphalt Shingle Roof	Attic Roofs	Wood Framed Ceiling	2x4 @ 16 in. O. C.	R-15	None / None	0.074	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-15.0 / 2x4 Around Roof Joists: R-2.0 insul.
R-30 ROOF ATTIC	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-20.0 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
Construction Assembly 17	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O. C.	R-0	None / None	0.196	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Board

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BUILDING ENVELOPE - HERS VERIFICATION				
01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
DHW System HP	Domestic Hot Water (DHW)	Standard	Water Heater HP	2	n/a	None	n/a	Water Heater HP (2)

WATER HEATERS - NEEA HEAT PUMP							
01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
Water Heater HP	2	50	AOSmith	AOSmithPPTU50	1ST FLOOR	Outside	Outside

WATER HEATING - HERS VERIFICATION						
01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW System HP - 1/2	Not Required	Not Required	Not Required	None	Not Required	Not Required

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SPACE CONDITIONING SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type			
HVAC 1st floor	Heat pump heating cooling	Heat Pump System 1	3	Heat Pump System 1	3	HVAC Fan ADU	DUCTS	Setback			
HVAC 2nd floor	Heat pump heating cooling	Heat Pump System 2	2	Heat Pump System 2	2	HVAC Fan ADU	DUCTS	Setback			

HVAC - HEAT PUMPS												
Name	System Type	Number of Units	Heating			Cooling			Zonally Controlled	Compressor Type	HERS Verification	
			Efficiency Type	HSPF / HSPF2 / COP	Cap 17	Cap 17	Efficiency Type	SEER / SEER2				EER / CEER
Heat Pump System 1	Central split HP	3	HSPF	8.5	60000	50000	EERSEER	14	11.7	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump
Heat Pump System 2	Central split HP	2	HSPF	8.5	30000	20000	EERSEER	14	11.87	Not Zonal	Single Speed	Heat Pump System 2-hers-htpump

HVAC HEAT PUMPS - HERS VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/SEER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Required	350	Not Required	Not Required	Yes	No	Yes	Yes
Heat Pump System 2-hers-htpump	Required	350	Not Required	Not Required	Yes	No	Yes	Yes

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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Table with 12 columns: 01-12. Headers: Name, Type, Design Type, Duct Ins. R-value, Duct Location, Surface Area, Bypass Duct, Duct Leakage, HERS Verification. Row 1: DUCTS, Unconditioned attic, Non-Verified, R-6, R-6, Attic, Attic, n/a, n/a, No Bypass Duct, Sealed and Taped, DUCTS-hers-dit

Table with 9 columns: 01-09. Headers: Name, Duct Leakage Verification, Duct Leakage Target (%), Verified Duct Location, Verified Duct Design, Buried Ducts, Deeply Buried Ducts, Low-leakage Air Handler, Low Leakage Ducts Entirely in Conditioned Space. Row 1: DUCTS-hers-dit, Yes, 5.0, Not Required, Not Required, Not Required, Credit not taken, Not Required, No

Table with 4 columns: 01-04. Headers: Name, Type, Fan Power (Watts/CFM), Name. Row 1: HVAC Fan ADU, HVAC Fan, 0.4, HVAC Fan ADU-hers-fan

Table with 3 columns: 01-03. Headers: Name, Verified Fan Watt Required, Required Fan Efficiency (Watts/CFM). Row 1: HVAC Fan ADU-hers-fan, Required, 0.4

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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Table with 9 columns: 01-09. Headers: Dwellling Unit, Airflow (CFM), Fan Efficiency (W/CFM), IAQ Fan Type, Includes Heat/Energy Recovery?, IAQ Recovery Effectiveness - SAE, Includes Fault Indicator Display?, HERS Verification, Status. Row 1: Steam IAQWHtRt, 280, 0.35, Exhaust, No, n/a, No, Yes

Table with 9 columns: 01-09. Headers: Name, Duct Leakage Verification, Duct Leakage Target (%), Verified Duct Location, Verified Duct Design, Buried Ducts, Deeply Buried Ducts, Low-leakage Air Handler, Low Leakage Ducts Entirely in Conditioned Space. Row 1: DUCTS-hers-dit, Yes, 5.0, Not Required, Not Required, Not Required, Credit not taken, Not Required, No

Table with 4 columns: 01-04. Headers: Name, Type, Fan Power (Watts/CFM), Name. Row 1: HVAC Fan ADU, HVAC Fan, 0.4, HVAC Fan ADU-hers-fan

Table with 3 columns: 01-03. Headers: Name, Verified Fan Watt Required, Required Fan Efficiency (Watts/CFM). Row 1: HVAC Fan ADU-hers-fan, Required, 0.4

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Ali Nehme, Signature: Ali Nehme, Date: 01/18/2023, License: 009-293-9018

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. Responsible Designer Name: Ali Nehme, Signature: Ali Nehme, Date: 01/18/2023, License: 009-293-9018

Registration Number: 423-P10110096A-001-000-4000009-0000 Registration Date/Time: 01/18/2023 19:38 HERS Provider: CHEERS

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

- Building Envelope: § 110.0(a)1: Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot... § 110.0(a)2: Labeling. Fenestration products and exterior doors must have a label meeting the requirements of 10-11(a).

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

- § 110.0: Pilot Lights. Continuously burning pilot lights are prohibited for natural gas fan-type central furnaces, household cooking appliances... § 110.0(a)1: Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot.

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

- § 110.0(a)13: Space Conditioning System Airflow Rate and Fan Efficiency. Space conditioning systems that use ducts to supply cooling must have a flow for the placement of a static pressure probe... § 110.0(a)14: Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems.

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

- § 110.0(a)15: Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8... § 110.0(a)16: Energy Storage System (ESS) Ready. All single-family residences must meet all of the following.

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

- § 110.0(a)17: Electric Dishwasher Dryer Ready. Clothes dryer locations with gas or propane cooktops to serve individual dwelling units must include a dedicated unswitched 240V branch circuit wiring installed within 3' of the dryer location... § 110.0(a)18: Electric Dishwasher Dryer Ready.

5/022

5/022

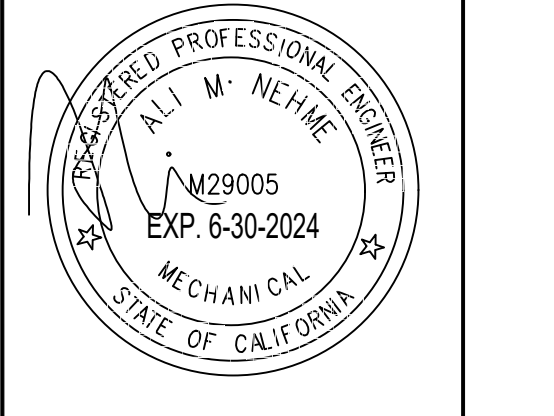
5/022

5/022

5/022

Table with 2 columns: REV, DESCRIPTION. Row 1: 1, 1

ANPE logo and contact information: ALI NEHME, P.E., 22914 DRY CREEK RD, DIAMOND BAR, CA 91765, ali@anpe.com



Drawings and forms information: DRAWN BY, CHECKED BY AN, DATE, SEE FORMS, JOB NUMBER, SHEET NO. T24-2

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: NEW GUEST HOUSE

Calculation Date/Time: 2023-01-19T14:44:09-08:00

CF1R-PRF-01-E

(Page 1 of 11)

Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

GENERAL INFORMATION

Table with 4 columns: ID, Project Name, Location, and Standards Version. Includes details like City (MORGAN HILLS, CA), Zip code (95037), and Standards Version (CECC-Res 2022.2.0).

COMPLIANCE RESULTS

Table with 2 columns: ID and Description. Shows building complies with Computer Performance and HERS Rater under supervision.

Registration Number: 423-PO10010672A-000-000-0000000-0000

Registration Date/Time: 01/19/2023 14:49

HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000

Report Generated: 2023-01-19 14:45:08

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: NEW GUEST HOUSE

Calculation Date/Time: 2023-01-19T14:44:09-08:00

CF1R-PRF-01-E

(Page 2 of 11)

Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

ENERGY DESIGN RATINGS

Table comparing Energy Design Ratings for Standard and Proposed Design across Source Energy, Efficiency EDR, and Total EDR.

1 Efficiency EDR includes improvements like a better building envelope and more efficient equipment... 2 Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries...

Standard Design PV Capacity: 1.73 kWdc; PV System resized to 2.55 kWdc (a factor of 2.553) to achieve 'Maximum PV for Compliance Credit' PV scaling

Registration Number: 423-PO10010672A-000-000-0000000-0000

Registration Date/Time: 01/19/2023 14:49

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Project Name: NEW GUEST HOUSE

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CF1R-PRF-01-E

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Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

ENERGY USE SUMMARY

Table showing Energy Use Summary for various systems: Space Heating, Space Cooling, IAQ Ventilation, Water Heating, etc., with columns for Standard Design, Proposed Design, and Compliance Margins.

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Calculation Date/Time: 2023-01-19T14:44:09-08:00

CF1R-PRF-01-E

(Page 4 of 11)

Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

ENERGY USE INTENSITY

Table showing Energy Use Intensity (Gross and Net EUI) for Standard and Proposed Design, including Margin Percentage.

Notes: 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED PV SYSTEMS

Table with 12 columns for PV system parameters: DC System Size, Exception, Module Type, Array Type, Power Electronics, CFI, Azimuth, Tilt, Array Angle, Tilt (in 12), Inverter Eff, Annual Solar Access.

REQUIRED SPECIAL FEATURES

- The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis... PV System, 2.55 kWdc; Insulation below roof deck; Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater...

HERS FEATURE SUMMARY

- The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below... Indoor air quality ventilation; Kitchen range hood; Minimum Airflow; Verified Refrigerant Charge; Fan Efficacy Watts/CFM; Verified heat pump rated heating capacity; Duct leakage testing.

Registration Number: 423-PO10010672A-000-000-0000000-0000

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Calculation Date/Time: 2023-01-19T14:44:09-08:00

CF1R-PRF-01-E

(Page 5 of 11)

Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

BUILDING - FEATURES INFORMATION

Table with 7 columns: ID, Project Name, Conditioned Floor Area, Number of Dwelling Units, Number of Bedrooms, Number of Zones, Number of Ventilation Cooling Systems, Number of Water Heating Systems.

ZONE INFORMATION

Table with 7 columns: ID, Zone Name, Zone Type, HVAC System Name, Zone Floor Area, Avg. Ceiling Height, Water Heating System 1, Status.

OPAQUE SURFACES

Table with 8 columns: ID, Name, Zone, Construction, Azimuth, Orientation, Gross Area, Window and Door Area, Tilt.

ATTIC

Table with 8 columns: ID, Name, Construction, Type, Roof Rise (in 12), Roof Reflectance, Roof Emittance, Radiant Barrier, Cool Roof.

Registration Number: 423-PO10010672A-000-000-0000000-0000

Registration Date/Time: 01/19/2023 14:49

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

FENESTRATION / GLAZING

Table with 14 columns: ID, Name, Type, Surface, Orientation, Azimuth, Width, Height, Mult., Area, U-factor, U-factor Source, SHGC, SHGC Source, Exterior Shading.

OPAQUE DOORS

Table with 4 columns: ID, Name, Side of Building, Area, U-factor.

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

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CF1R-PRF-01-E

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Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

SLAB FLOORS

Table with 8 columns: ID, Name, Zone, Area, Perimeter, Edge Insul. R-value and Depth, Edge Insul. R-value and Depth, Carpeted Fraction, Heated.

OPAQUE SURFACE CONSTRUCTIONS

Table with 8 columns: ID, Construction Name, Surface Type, Construction Type, Framing, Total Cavity R-value, Interior / Exterior Continuous R-value, U-factor, Assembly Layers.

BUILDING ENVELOPE - HERS VERIFICATION

Table with 5 columns: ID, Quality Insulation Installation, High R-value Spray Foam Insulation, Building Envelope Air Leakage, CFM50, CFM50.

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CF1R-PRF-01-E

(Page 8 of 11)

Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

WATER HEATING SYSTEMS

Table with 9 columns: ID, Name, System Type, Distribution Type, Water Heater Name, Number of Units, Solar Heating System, Compact Distribution, HERS Verification, Water Heater Name #.

WATER HEATERS - NEEA HEAT PUMP

Table with 8 columns: ID, Name, # of Units, Tank Vol. (gal), NEEA Heat Pump Brand, NEEA Heat Pump Model, Tank Location, Duct Inlet Air Source, Duct Outlet Air Source.

WATER HEATING - HERS VERIFICATION

Table with 7 columns: ID, Name, Pipe Insulation, Parallel Piping, Compact Distribution, Compact Distribution Type, Recirculation Control, Shower Drain Water Heat Recovery.

SPACE CONDITIONING SYSTEMS

Table with 9 columns: ID, Name, System Type, Heating Unit Name, Heating Equipment Count, Cooling Unit Name, Cooling Equipment Count, Fan Name, Distribution Name, Required Thermostat Type.

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Calculation Description:

Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

HVAC - HEAT PUMPS

Table with 13 columns: ID, Name, System Type, Number of Units, Heating Efficiency Type, HSPF / COP, Cap 47, Cap 17, Cooling Efficiency Type, SEER / SEER2, EER / EER2, Zonally Controlled, Compressor Type, HERS Verification.

HVAC HEAT PUMPS - HERS VERIFICATION

Table with 9 columns: ID, Name, Verified Airflow, Airflow Target, Verified EER/EER2, Verified SEER/SEER2, Verified Refrigerant Charge, Verified HSPF/HSPF2, Verified Heating Cap 47, Verified Heating Cap 17.

HVAC - DISTRIBUTION SYSTEMS

Table with 12 columns: ID, Name, Type, Design Type, Duct Ins. R-value, Supply Return, Duct Location, Supply Return, Surface Area, Bypass Duct, Duct Leakage, HERS Verification.

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000

Report Generated: 2023-01-19 14:45:08

Table with 2 columns: REV and DESCRIPTION.

ANPE logo and contact information for Ali Nehme, P.E. at 22914 DRY CREEK RD, DIAMOND BAR, CA 91765.



Title 24 forms

Drawn by, Checked by, Date, See Forms

JOB NUMBER

SHEET NO. T24-1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: NEW GUEST HOUSE Calculation Date/Time: 2023-01-19T14:44:09.08:00
Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

CF18-PRF-01-E

(Page 10 of 11)

Table with 9 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Rows include HVAC Distribution - HERS Verification and HVAC - FAN SYSTEMS.

Table with 4 columns: 01, 02, 03, 04. Rows include HVAC FAN SYSTEMS - HERS VERIFICATION.

Table with 9 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Rows include INDOOR AIR QUALITY (IAQ) HANS.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: NEW GUEST HOUSE Calculation Date/Time: 2023-01-19T14:44:09.08:00
Input File Name: CVEAS-MORGAN HILLS Guest house 2022.rbd22

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Table with 9 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Rows include HVAC Distribution - HERS VERIFICATION and HVAC - FAN SYSTEMS.

Table with 4 columns: 01, 02, 03, 04. Rows include HVAC FAN SYSTEMS - HERS VERIFICATION.

Table with 9 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09. Rows include INDOOR AIR QUALITY (IAQ) HANS.

Digitally signed by David Home Energy Efficiency Rating System Services, Inc. (CHEERS). This digital signature is provided in order to secure the information contained in this document.

Registration Number: 423-P010010672A-000-000-000009-0000 Registration Date/Time: 01/18/2023 14:49
HERS Provider: CHEERS

Registration Number: 423-P010010672A-000-000-000009-0000 Registration Date/Time: 01/18/2023 14:49
HERS Provider: CHEERS

2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

Table with 2 columns: Section ID and Description. Rows include Building Envelope, Glazing, Fenestration, and HVAC systems.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Section ID and Description. Rows include Pilot Lights, Building Envelope, Glazing, Fenestration, and HVAC systems.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Section ID and Description. Rows include Space Conditioning, Ventilation and Indoor Air Quality, and Pool and Spa Systems and Equipment.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Section ID and Description. Rows include Energy Storage System (ESS) Ready, Lighting, and Electrical and Energy Storage Ready.

2022 Single-Family Residential Mandatory Requirements Summary

Table with 2 columns: Section ID and Description. Rows include Energy Storage System (ESS) Ready, Lighting, and Electrical and Energy Storage Ready.

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Table with 3 columns: REV, DESCRIPTION, DATE. Row 1: 1, ,

ANPE logo and contact information for Ali Nehme, P.E., Mechanical Engineer, 22914 Dry Creek Road, Diamond Bar, CA 91765.



Title 24 forms

Table with 2 columns: DRAWN BY, CHECKED BY. Row 1: , AN

Table with 2 columns: JOB NUMBER, SHEET NO. Row 1: , T24-2

COUNTY OF SANTA CLARA
General Construction
Specifications

GENERAL CONDITIONS

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY EARTH SYSTEMS PACIFIC AND DATED APRIL 7, 2015. THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS, 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.
2. DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.
3. DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL.
4. DEVELOPER SHALL OBTAIN NECESSARY PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR.
5. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
7. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
8. ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.
9. UPON DISCOVERING OR UNCOVERING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION 16-18).
10. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE STRUCTURE CONSTRUCTION.
11. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
2. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.
3. PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK.
4. PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

CONSTRUCTION INSPECTION

1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
2. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
3. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
4. DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FOR CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEANING AND GRUBBING)

1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:
 - a) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
 - b) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
2. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

UTILITY LOCATION, TRENCHING & BACKFILL

1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.
2. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
3. ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
4. TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
5. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
6. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

RETAINING WALLS

1. REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL.
2. SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

GRADING

1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IT SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEPT IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL IS COMPACTED TO A RELATIVE COMPACTION IS EXPOSED, THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
2. EXCESS OUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
3. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN.
4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
6. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	0	743	2.0'
PONDING BASIN	90	0	3.0'
POOL/HARDSCAPE	0	132	0.5'
LANDSCAPE	0	0	0.5'
DRIVEWAY	3	7	0.75'
OFF SITE MOVEMENTS	30	5	0.75'
TOTAL	123	887	0.5'-3.0'

- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE.
- EXCESS MATERIAL SHALL BE Hauled TO A COUNTY APPROVED DUMP SITE.
 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORKING OF ALL PROPOSED WORK.
 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
 9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
 10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
 11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED AND CONDITIONED AND CONTRACTED TO A MINIMUM RELATIVE COMPACTION OF 95% BY THE COUNTY ENGINEER PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
 12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.
 13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
 14. TOTAL DISTURBED AREA FOR THE PROJECT 32,254 SF.
 15. MID NO.(N/A).
 16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFERING WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING:
 - A. FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIFLINE OF THE TREE OR GROVE OF TREES.
 - B. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION.
 - C. FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
 - D. SIGNAGE STATING "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE PROTECTION MEASURES MAY BE FOUND AT <http://www.sccplanning.gov>." SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY.
2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACE AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

ACCESS ROADS AND DRIVEWAYS

1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES PER FOOT).
2. ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15' LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING.
3. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
5. ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE SANTA CLARA COUNTY PLANNING OFFICE. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT - I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC.

STREET LIGHTING

1. PACIFIC GAS & ELECTRIC ELECTRICIAN SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

SANITARY SEWER

1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
2. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.
7. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
8. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
9. POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT RESISTANT TO THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
 - A. 15 MILES PER HOUR (MPH) SPEED LIMIT
 - B. 5 MINUTE MAXIMUM IDLING TIME OF VEHICLES
 - C. TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION CONTROL OFFICE IS 925-948-7412.

SURVEY MONUMENT PRESERVATION

1. THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
3. THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) IN THE SURFACE OF THE NEW CONSTRUCTION OR SET A WITNESS MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COULD BE DESTROYED, DAMAGED, COVERED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
 - A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
 - B. PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
 - C. PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLUOT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE AND SITUATIONALLY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

STORM DRAINAGE AND STORMWATER MANAGEMENT

1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES PERMIT CAS000004 / ORDER NO. 2013-001-DWQ.
2. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.
3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.
4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.
5. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AS-BUILT PLANS STATEMENT

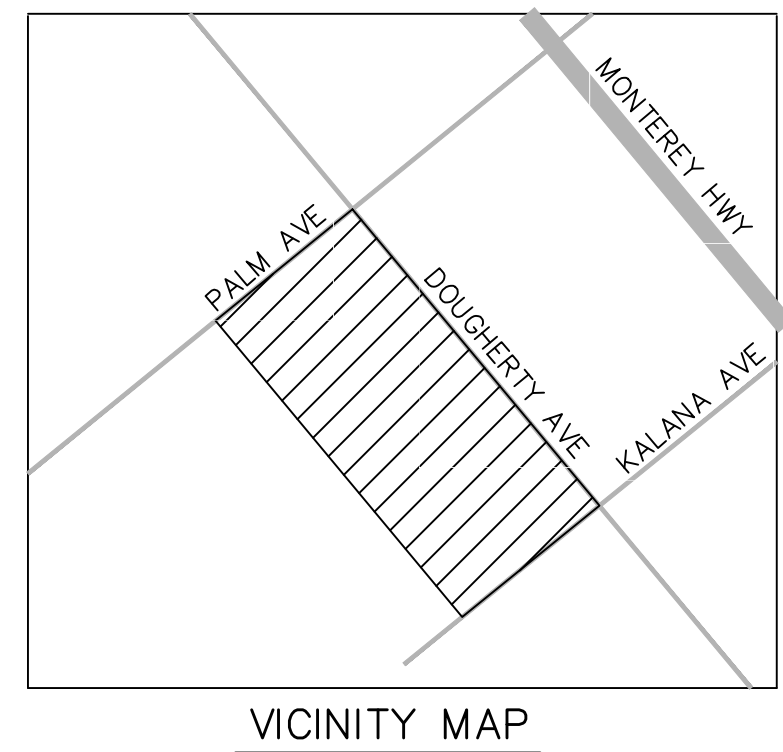
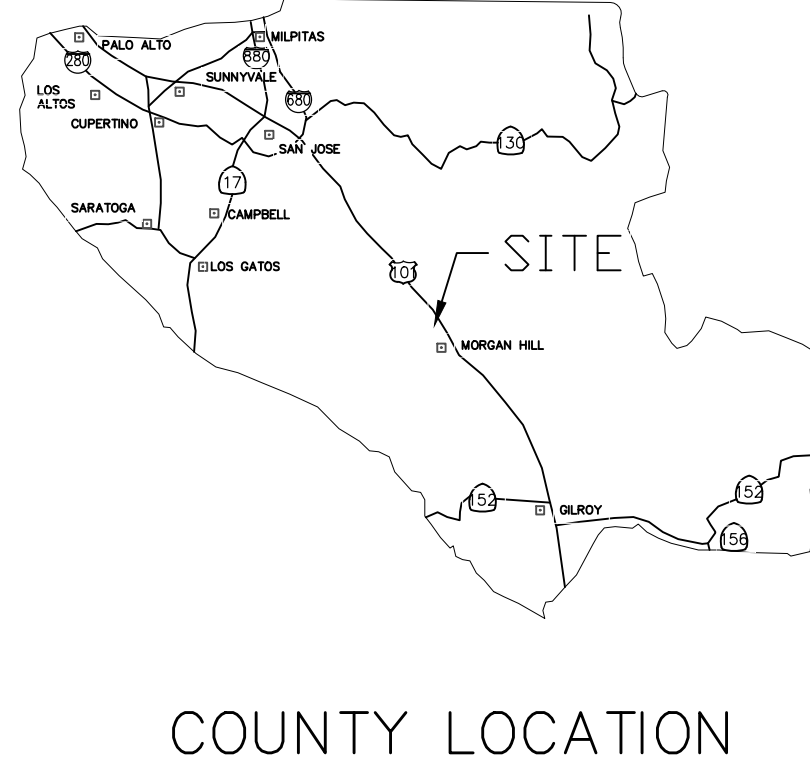
THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (___ WERE) (___ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (⌘), THERE (___ WERE) (___ WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL Ⓛ.

DATE _____ SIGNATURE _____

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER CONSTRUCTION.

GEOTECHNICAL ENGINEER OBSERVATION

1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.



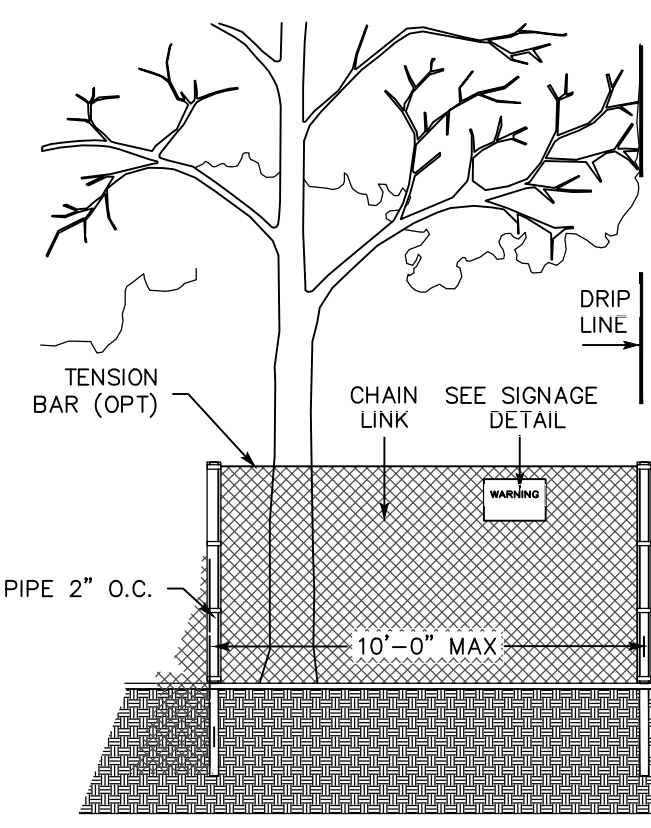
COUNTY LOCATION
MAP

VICINITY MAP

**NEW RESIDENCE FOR:
GURDEEP DHADWAL**

SCOPE OF WORK

1. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF THE EROSION CONTROL PLANS TO PREVENT ILLUOT DISCHARGES FROM THE SITE DURING CONSTRUCTION.
2. CONSTRUCTION OF 15' DRIVEWAY.
3. CONSTRUCTION OF PRIMARY AND 2ND RESIDENCE.
4. CONSTRUCTION OF ONSITE PONDING BASIN.
5. CONSTRUCTION OF OFFSITE IMPROVEMENT ALONG PALM AVENUE.



EXISTING TREE PROTECTION DETAILS

1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
2. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
3. FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO THE GROUND AND SPACED NOT MORE THAN 10 FEET APART.
4. TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN WORK SHEET FRO SPECIAL CONDITIONS AND PERMIT NUMBERING

ENGINEER'S CERTIFICATION:
THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.

Peter Pao Moua 2/2/23
 PETER PAO MOUA, P.E. DATE
 LIC. NO. C61918

COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS
 ISSUED BY: _____ DATE: _____
 ENCROACHMENT PERMIT NO. _____

COUNTY OF SANTA CLARA
 LAND DEVELOPMENT ENGINEERING & SURVEYING
 GRADING / DRAINAGE PERMIT NO. _____
 ISSUED BY: _____ DATE: _____

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED JULY 18, 2015 FILE(S) NO. 9470-60-45-14B.

DATE: 2/2/23 *Peter Pao Moua*
 SIGNATURE



COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITEE OF ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

DATE _____ CHRISTOPHER L. FREITAS, RCE
 42107 3/31/24
 R.C.E. NO. EXPIRATION DATE

SHEET INDEX

1	COVER SHEET
2	GRADING PLAN
3	GRADING PLAN
4	OFFSITE STREET IMPROVEMENT
5	EROSION CONTROL PLAN
6	DETAILS
7	DETAILS
8	DETAILS
9	STANDARD TRAFFIC CONTROL PLANS
10	STANDARD TRAFFIC CONTROL PLANS

ENGINEER'S NAME: PETER P. MOUA, PE/LS
 CENTRAL VALLEY ENGINEERING AND SURVEYING
 2132 HIGH STREET
 SELMA, CA 93662
 PHONE NO.(559) 891-8811

Revision 1	3/21/18	APN	712-27-012	Sheet	1
Revision 2	5/24/18	Co. File			of 10
Revision 3	7/26/18				

**Notes for Figure 6H-10 6H-10(CA) and 6H-10A(CA) — Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers**

Option:

1. For low-volume (Refer to Part 5, Section 5A.01) situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.

Standard:

5. At night, flagger stations shall be illuminated, except in emergencies.

Guidance:

6. When used, the BE PREPARED TO STOP sign should be located *between-after* the Flagger sign and the ONE LANE ROAD sign.
7. When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.
8. When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.
9. When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.
10. Early coordination with the railroad company or light rail transit agency should occur before work starts.

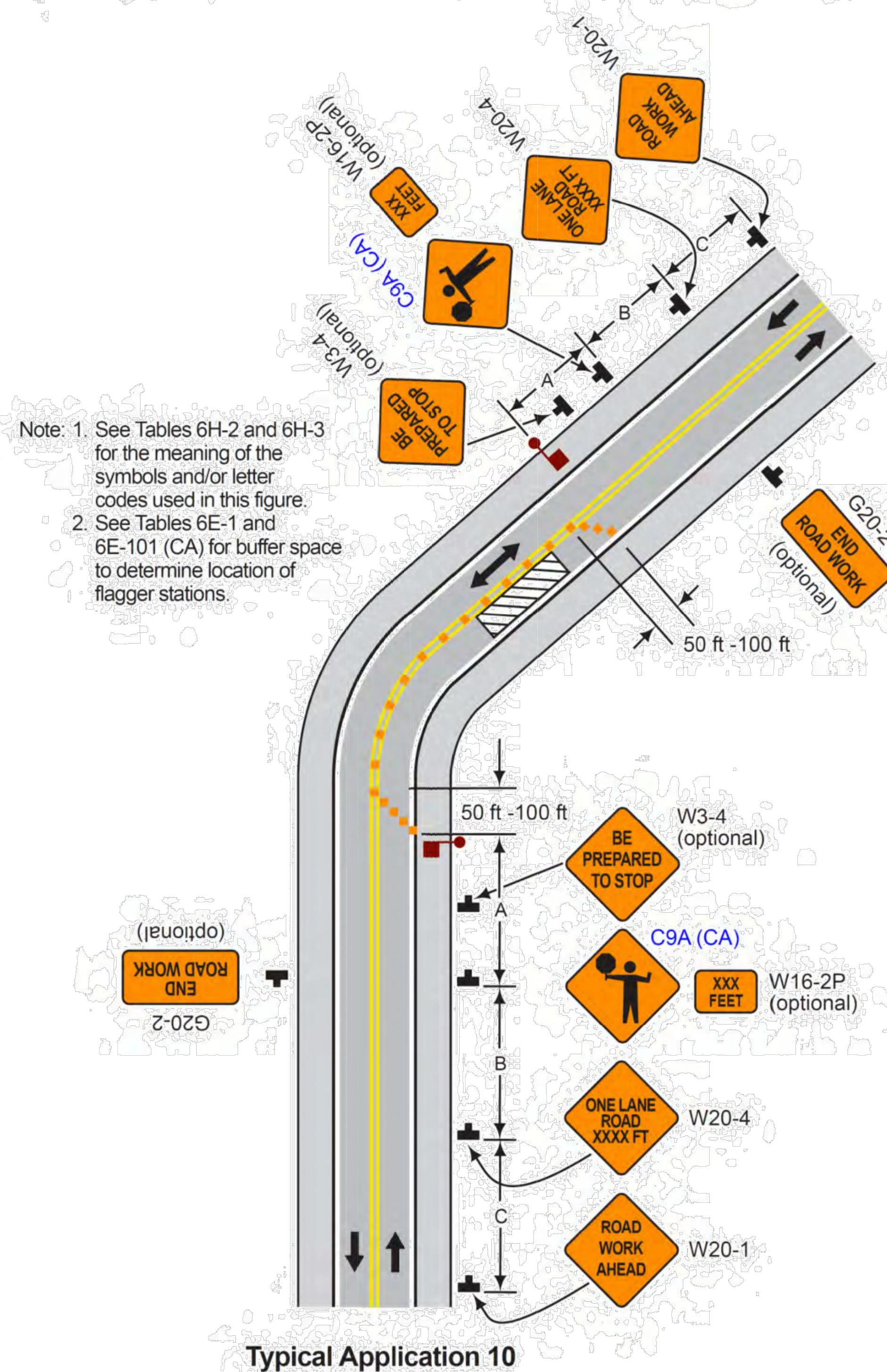
Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

Support:

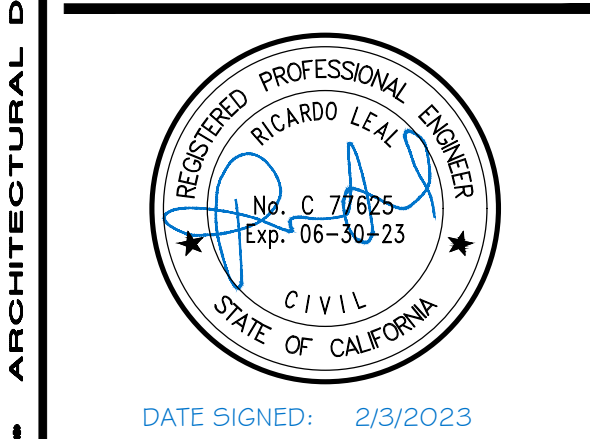
12. For State highways, see Caltrans' Standard Plan T13. See Section 1A.11 for information regarding this publication.
13. If portable transverse rumble strips are used for flagging operations, refer to Section 6F.87.

Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043



Revisions:	Date:
△ -	-
△ -	-
△ -	-
△ -	-

SANTA CLARA COUNTY ROADS AND AIRPORT STANDARDS

CVEAS JOB #:	22146
DATE:	2/3/2023
PLANNING SUBMITTAL #:	XX-XXXX
PLAN CHECK SUBMITTAL #:	XX-XXXX
DRAWN BY:	KX
CHECKED BY:	RL
SCALE:	NOTE ON PLANS

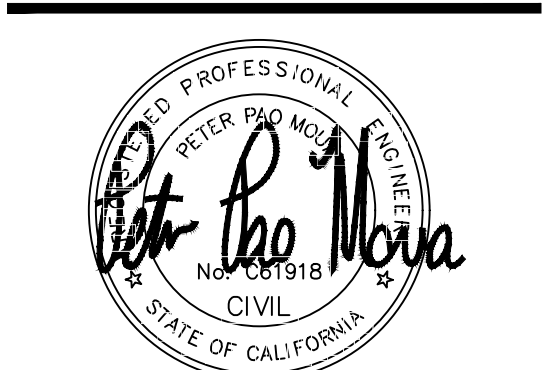
		COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT		STANDARD TRAFFIC CONTROL PLANS - LOCAL LANE CLOSURE WITH FLAGGERS		DRAWING No. TCP	
DESIGNED	5-2015	DATE	5-2015	ADVERTISED		CONTRACT No.	
DRAWN	5-2015	DATE	5-2015	FILE No.			
CHECKED	5-2015	DATE		WORK ORDER No.	XX		
NO.	REVISIONS	BY	DATE	APP'D			

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.

ALL RIGHTS RESERVED. REPRODUCTION AND DISTRIBUTION OF THIS DOCUMENT IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF CVEAS ENGINEERING & SURVEYING, INC. THIS DOCUMENT IS THE PROPERTY OF CVEAS ENGINEERING & SURVEYING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF CVEAS ENGINEERING & SURVEYING, INC. THIS DOCUMENT IS THE PROPERTY OF CVEAS ENGINEERING & SURVEYING, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

PROJECT ARCHITECTURAL DRAFTING COMMERCIAL & RESIDENTIAL BUILDING DESIGN PLANNING & PROJECT MANAGEMENT

NEW RESIDENCE FOR:
GURDEEP DHADWAL
PALM AVE AND DOUGHERTY AVE
MORGAN HILL, CA 95037
 APN: 712-27-012



Revisions:	Date:
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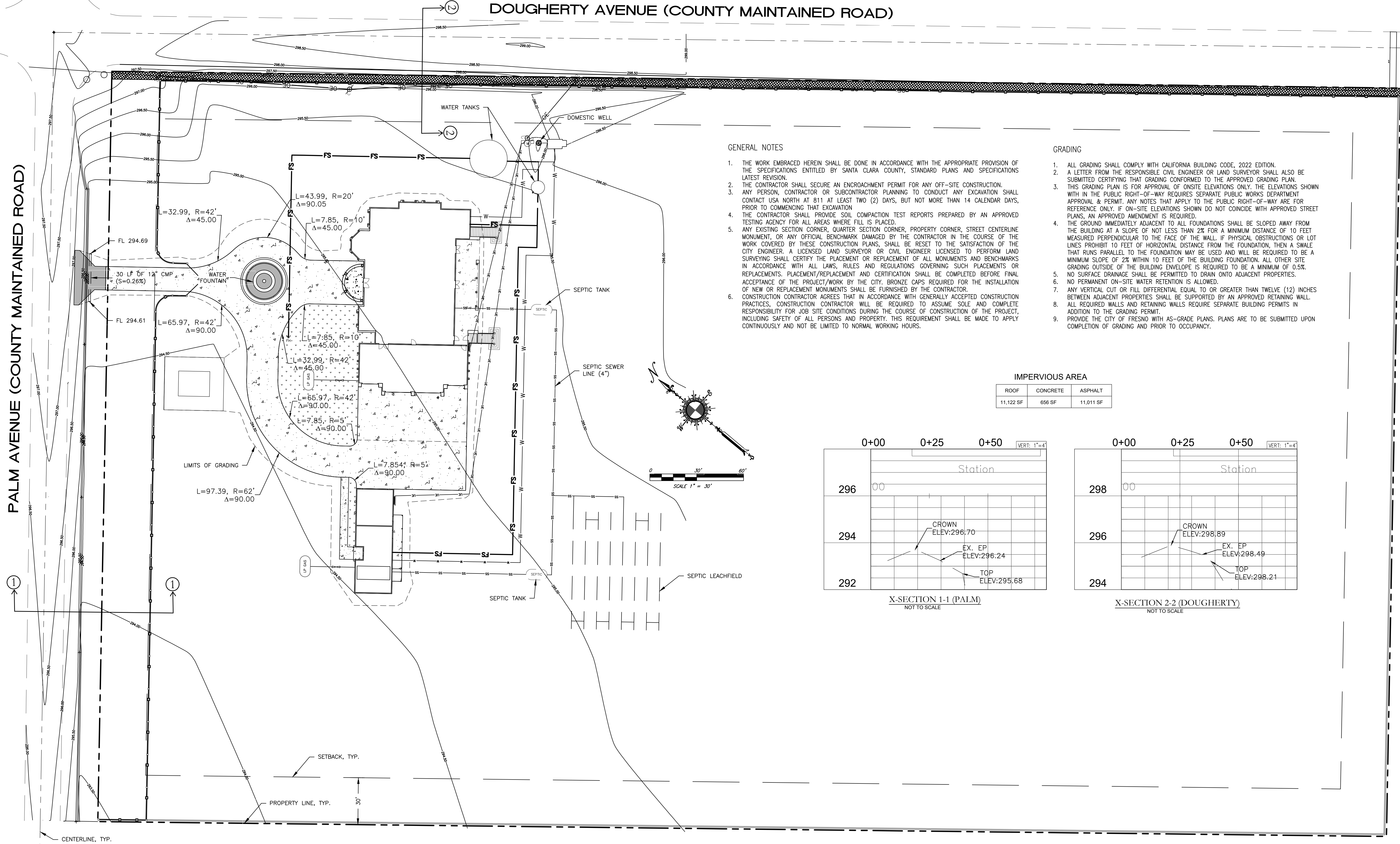
GRADING PLAN

CVEAS Job #:	16067
Current Release Date:	XXXX
Drawn By:	PM
Planning Submittal Date:	XXXX
P.C. Submittal Date:	
Checked By:	RL
Scale:	AS NOTED

SHEET
2
OF
10

DOUGHERTY AVENUE (COUNTY MAINTAINED ROAD)

PALM AVENUE (COUNTY MAINTAINED ROAD)

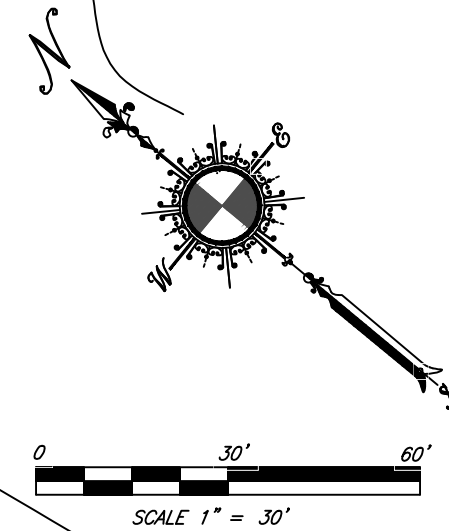
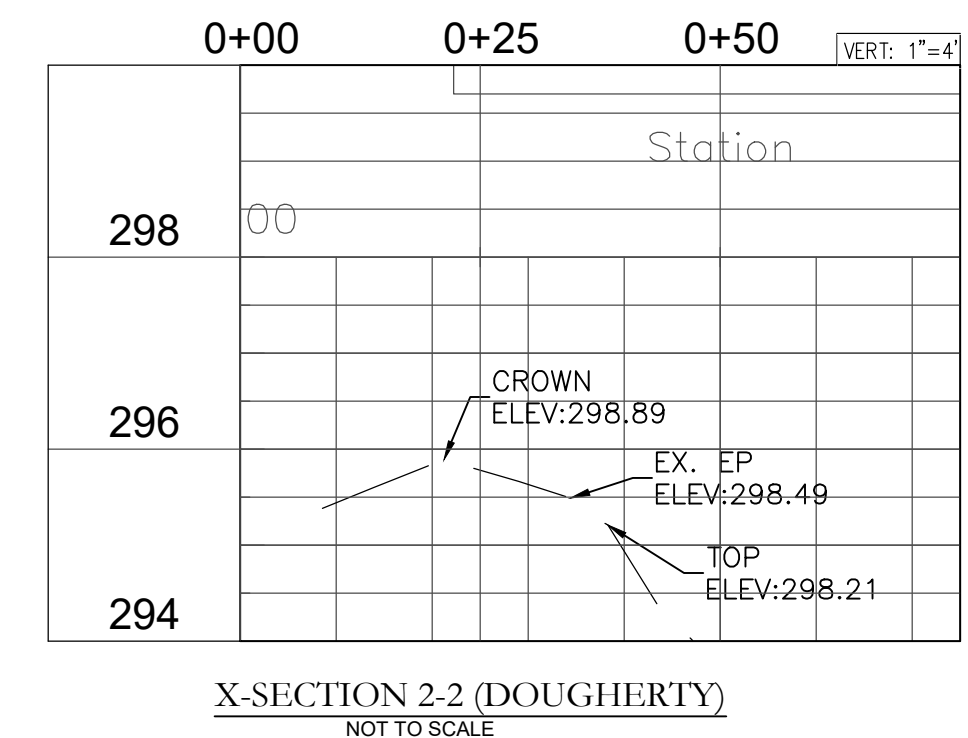
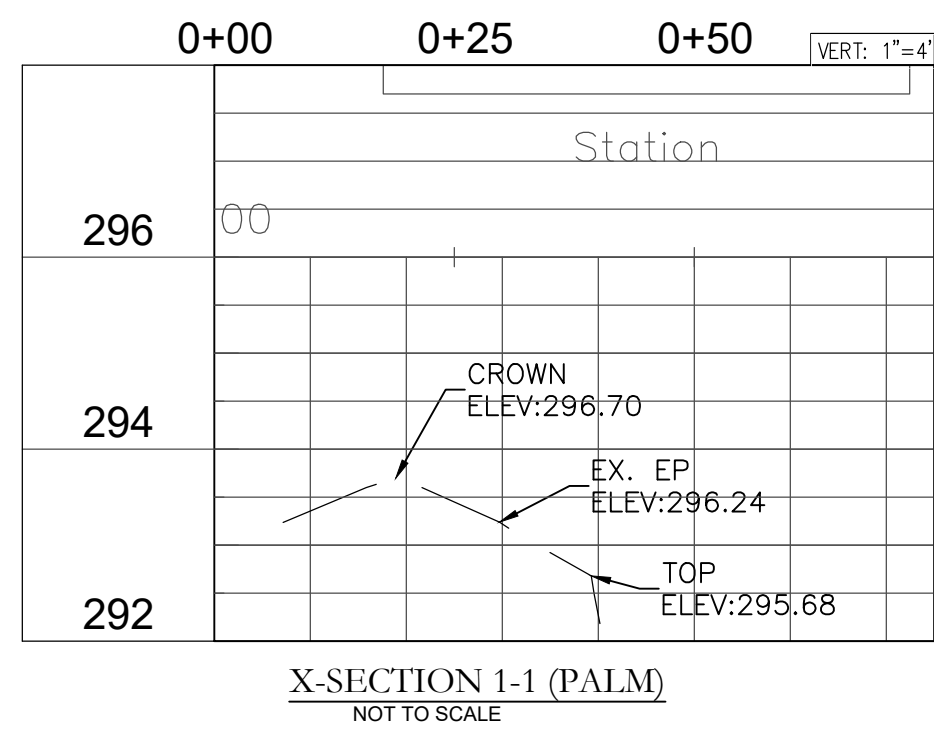


- GENERAL NOTES**
1. THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISION OF THE SPECIFICATIONS ENTITLED BY SANTA CLARA COUNTY, STANDARD PLANS AND SPECIFICATIONS LATEST REVISION.
 2. THE CONTRACTOR SHALL SECURE AN ENCROACHMENT PERMIT FOR ANY OFF-SITE CONSTRUCTION.
 3. ANY PERSON, CONTRACTOR OR SUBCONTRACTOR PLANNING TO CONDUCT ANY EXCAVATION SHALL CONTACT USA NORTH AT 811 AT LEAST TWO (2) DAYS, BUT NOT MORE THAN 14 CALENDAR DAYS, PRIOR TO COMMENCING THAT EXCAVATION.
 4. THE CONTRACTOR SHALL PROVIDE SOIL COMPACTION TEST REPORTS PREPARED BY AN APPROVED TESTING AGENCY FOR ALL AREAS WHERE FILL IS PLACED.
 5. ANY EXISTING SECTION CORNER, QUARTER SECTION CORNER, PROPERTY CORNER, STREET CENTERLINE MONUMENT, OR ANY OFFICIAL BENCHMARK DAMAGED BY THE CONTRACTOR IN THE COURSE OF THE WORK COVERED BY THESE CONSTRUCTION PLANS, SHALL BE RESET TO THE SATISFACTION OF THE CITY ENGINEER. A LICENSED LAND SURVEYOR OR CIVIL ENGINEER LICENSED TO PERFORM LAND SURVEYING SHALL CERTIFY THE PLACEMENT OR REPLACEMENT OF ALL MONUMENTS AND BENCHMARKS IN ACCORDANCE WITH ALL LAWS, RULES AND REGULATIONS GOVERNING SUCH PLACEMENTS OR REPLACEMENTS. PLACEMENT/REPLACEMENT AND CERTIFICATION SHALL BE COMPLETED BEFORE FINAL ACCEPTANCE OF THE PROJECT/WORK BY THE CITY. BRONZE CAPS REQUIRED FOR THE INSTALLATION OF NEW OR REPLACEMENT MONUMENTS SHALL BE FURNISHED BY THE CONTRACTOR.
 6. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

- GRADING**
1. ALL GRADING SHALL COMPLY WITH CALIFORNIA BUILDING CODE, 2022 EDITION.
 2. A LETTER FROM THE RESPONSIBLE CIVIL ENGINEER OR LAND SURVEYOR SHALL ALSO BE SUBMITTED CERTIFYING THAT GRADING CONFORMED TO THE APPROVED GRADING PLAN.
 3. THIS GRADING PLAN IS FOR APPROVAL OF ON-SITE ELEVATIONS ONLY. THE ELEVATIONS SHOWN WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES SEPARATE PUBLIC WORKS DEPARTMENT APPROVAL & PERMIT. ANY NOTES THAT APPLY TO THE PUBLIC RIGHT-OF-WAY ARE FOR REFERENCE ONLY. IF ON-SITE ELEVATIONS SHOWN DO NOT COINCIDE WITH APPROVED STREET PLANS, AN APPROVED AMENDMENT IS REQUIRED.
 4. THE CONTRACTOR SHALL SLOPE AWAY FROM THE GROUND IMMEDIATELY ADJACENT TO ALL FOUNDATIONS SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 2% FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10 FEET OF HORIZONTAL DISTANCE FROM THE FOUNDATION, THEN A SWALE THAT RUNS PARALLEL TO THE FOUNDATION MAY BE USED AND WILL BE REQUIRED TO BE A MINIMUM SLOPE OF 2% WITHIN 10 FEET OF THE BUILDING FOUNDATION. ALL OTHER SITE GRADING OUTSIDE OF THE BUILDING ENVELOPE IS REQUIRED TO BE A MINIMUM OF 0.5%.
 5. NO SURFACE DRAINAGE SHALL BE PERMITTED TO DRAIN ONTO ADJACENT PROPERTIES.
 6. NO PERMANENT ON-SITE WATER RETENTION IS ALLOWED.
 7. ANY VERTICAL CUT OR FILL DIFFERENTIAL EQUAL TO OR GREATER THAN TWELVE (12) INCHES BETWEEN ADJACENT PROPERTIES SHALL BE SUPPORTED BY AN APPROVED RETAINING WALL.
 8. ALL REQUIRED WALLS AND RETAINING WALLS REQUIRE SEPARATE BUILDING PERMITS IN ADDITION TO THE GRADING PERMIT.
 9. PROVIDE THE CITY OF FRESNO WITH AS-GRADE PLANS. PLANS ARE TO BE SUBMITTED UPON COMPLETION OF GRADING AND PRIOR TO OCCUPANCY.

IMPERVIOUS AREA

ROOF	CONCRETE	ASPHALT
11,122 SF	656 SF	11,011 SF



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 48 HOURS
 BEFORE EXCAVATING

APPROVED FOR ISSUANCE
 REFER TO ENCROACHMENT AND/OR
 CONSTRUCTION PERMIT AND PLAN
 COVER SHEET FOR SPECIAL
 CONDITIONS AND PERMIT NUMBERING

VERTICAL CONTROL

CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 4 AS REFERENCED TO CSRS, EPOCH 2011.

BASIS OF BEARINGS:

CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 4 AS REFERENCED TO CSRS, EPOCH 2011.

ENGINEER'S CERTIFICATION:

THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.

Peter Paolou
 PETER PAOLOU, P.E.
 LIC. NO. C61918

2/2/2023
 DATE

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KEYNOTES

- 1. VERIFY STRUCTURAL SECTION WITH STRUCTURAL ENGINEER & ARCHITECT PRIOR TO CONSTRUCTION. Slope Garage Slab per Architectural Plans.
- 2. INSTALL RIPRAP ALONG SWALE.

GRADING IS FOR THE PURPOSE OF CONSTRUCTION OF PRIMARY AND SECONDARY RESIDENCE.

NOTE: SEE SHEET A1.1 FOR WATER, SEPTIC AND GAS. NO UTILITY CONNECTION FROM COUNTY RIGHT-OF-WAY.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING



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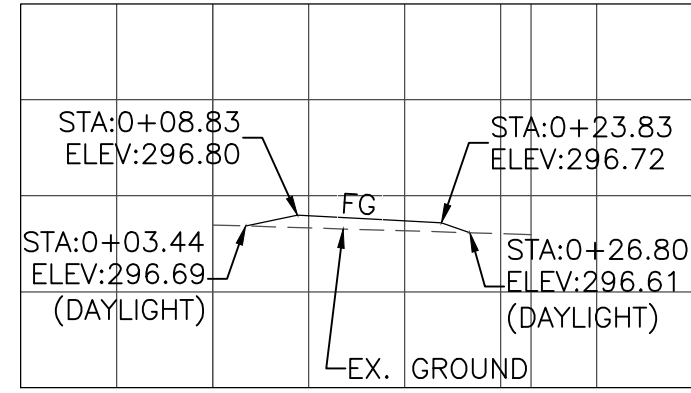
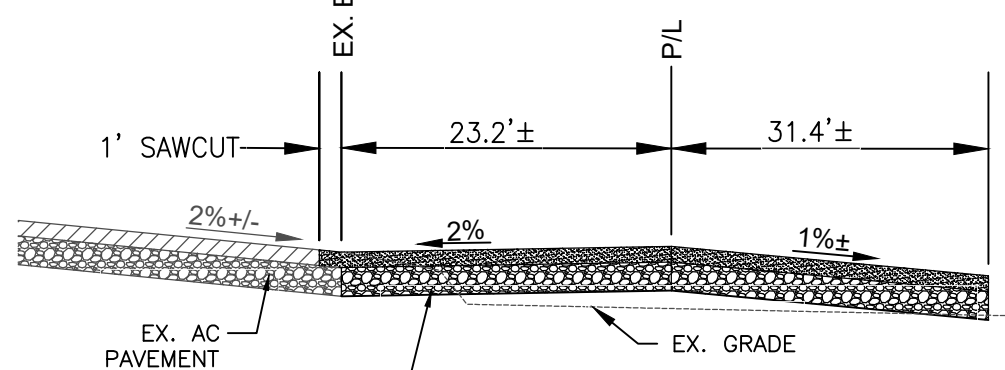
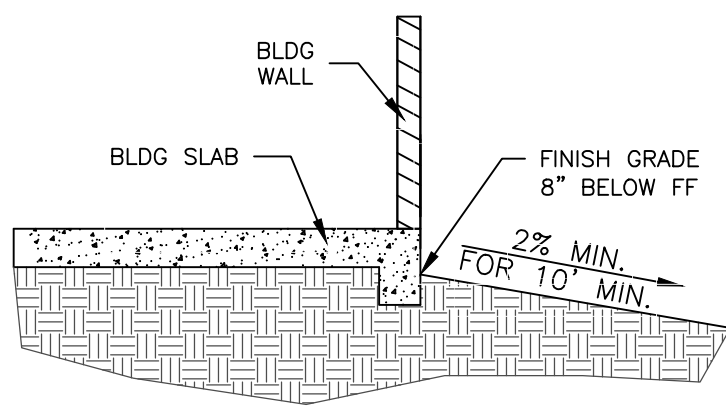
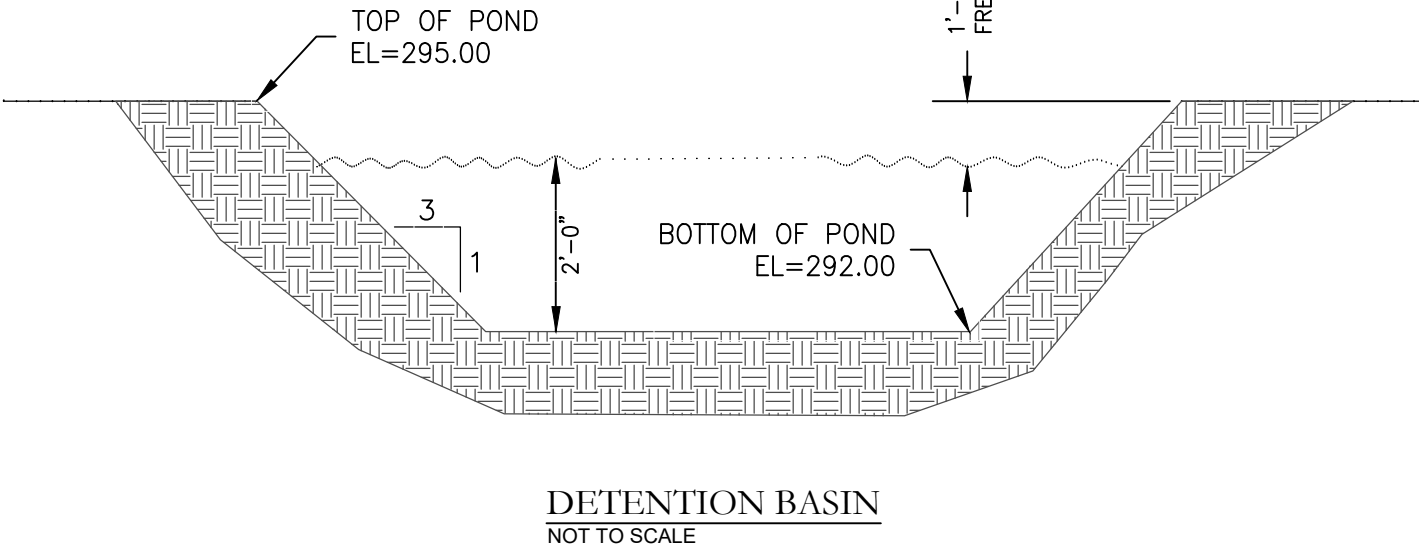
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ABBREVIATIONS / LEGEND

AC ASPHALTIC	FL FLOW LINE	SDCO STORM DRAIN CLEANOUT
C CONCRETE	FNC FENCE	SDI STORM DRAIN INLET
CATV CABLE TELEVISION LINE	FS FIRE SPRINKLER	SDMH STORM DRAIN MANHOLE
CC CONCRETE CURB	GR GUTTER/GUTTER LIP	SSCO SEWER SANITARY CLEANOUT
CL CENTER LINE	GRD GROUND	TC TOP OF CURB
CLF CHAIN LINK FENCE	GUI GUY WIRE	TF TOP OF FOOTING
D DIRT/GROUND SURFACE	IE INVERT ELEVATION	TTC TOP FACE OF CURB
DI DRAIN INLET	IRR IRRIGATION	TP TELEPHONE POLE
EC END OF CURVE	MB MAIL BOX	TW TOP OF WALL
EG EXISTING GROUND	MIR METER	UE UNDERGROUND ELECTRICAL
EP EDGE OF PAVEMENT	O/H OVERHEAD ELECTRICAL LINE	W WATER
ETW EDGE OF TRAVEL WAY	P PAVEMENT	
EX EXISTING	PP POWER POLE	
FD FOUND	P/L PROPERTY LINE	
FF FINISH FLOOR	RB REBAR	
FG FINISH GRADE	R/W RIGHT OF WAY	

- GRAVEL
- ASPHALT CONCRETE (AC)
- CONCRETE (CONC)
- SPOT ELEVATION & DESCRIPTION

- GENERAL RIGHT-OF-WAY NOTES:**
- SAWCUT AND REPAVE A MINIMUM OF 1-FT OF PLAM AVENUE ALONG DRIVEWAY AND PROPERTY FRONTAGE.
 - RESTRIPE FOG LINE IN SAWCUT AREA IN KIND WITH 4-INCH WHITE REFLECTIVE PAVEMENT MARKINGS AND AS REQUESTED BY COUNTY INSPECTOR AND/OR ENGINEER.
 - ALL SAWCUT SPOILS SHALL BE VACUUMED.
 - OFF HAUL ALL CONSTRUCTION SPOILS AND DEBRIS TO AN APPROPRIATE DUMP FACILITY.
 - INSTALL AND MAINTAIN PROPER BMPs THROUGHOUT THE DURATION OF CONSTRUCTION.
 - INSTALL AND MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD.



CUT/FILL
CUT = 123 CUBIC YARDS
FILL = 144 CUBIC YARDS
NET FILL = 21 CUBIC YARDS
DISTURBED AREA = 32,254 SF

ENGINEER'S CERTIFICATION:
THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.
Peter Pao Moua
PETER PAO MOUA, P.E.
LIC. NO. C61918
DATE 2/2/2023

PROJECT
NEW RESIDENCE FOR:
GURDEEP DHADWAL
PALM AVE AND DOUGHERTY AVE
MORGAN HILL, CA 95037
APN: 712-27-012



Revisions:	Date:

GRADING PLAN

CVEAS Job #:	16067
Current Release Date:	xxxx
Drawn By:	PM
Planning Submittal Date:	xxxx
P.C. Submittal Date:	
Checked By:	RL
Scale:	AS NOTED

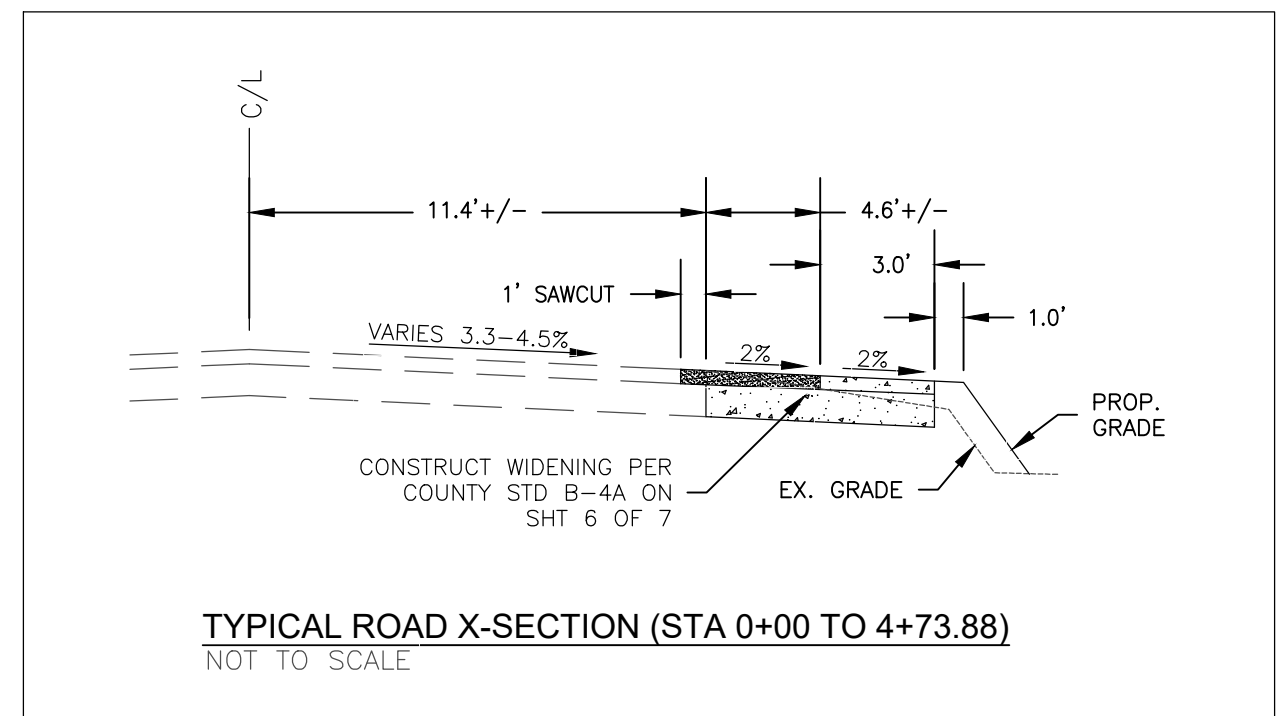
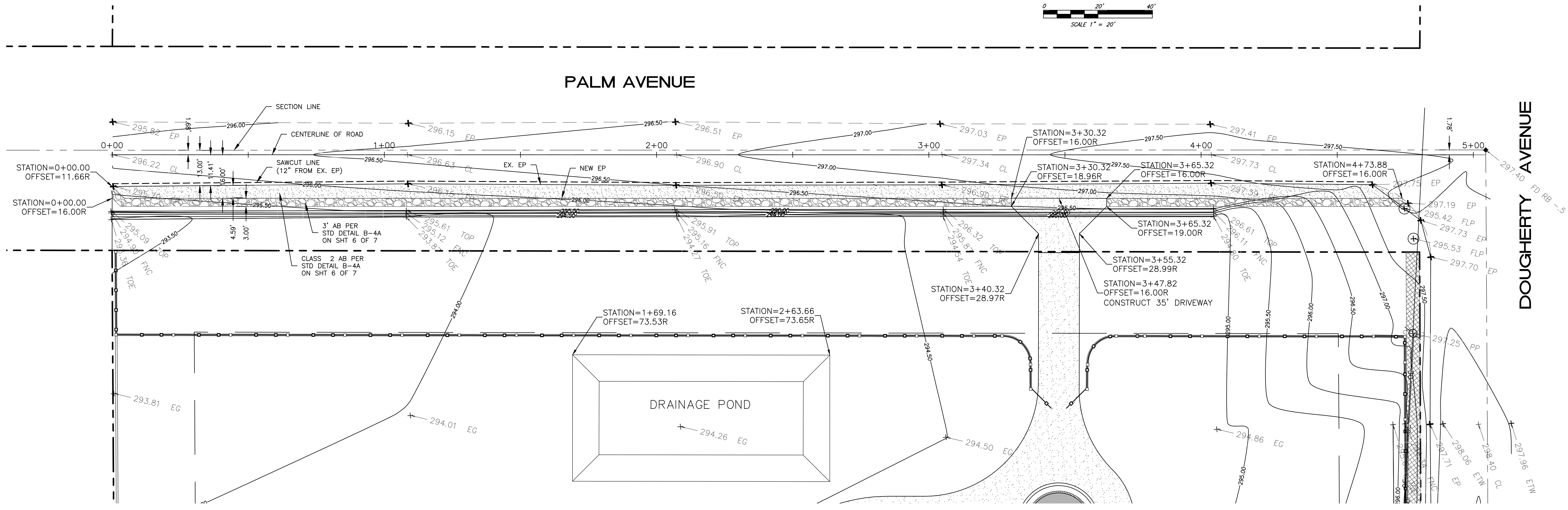
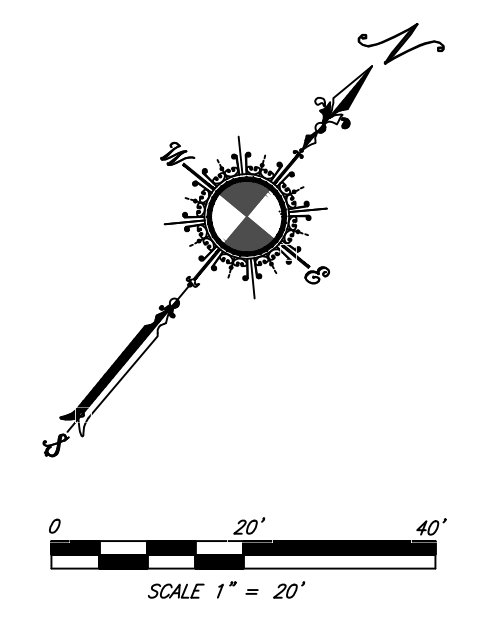
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PROJECT
**NEW RESIDENCE FOR:
GURDEEP DHADWAL
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MORGAN HILL, CA 95037
APN: 712-27-012**



Revisions:	Date:
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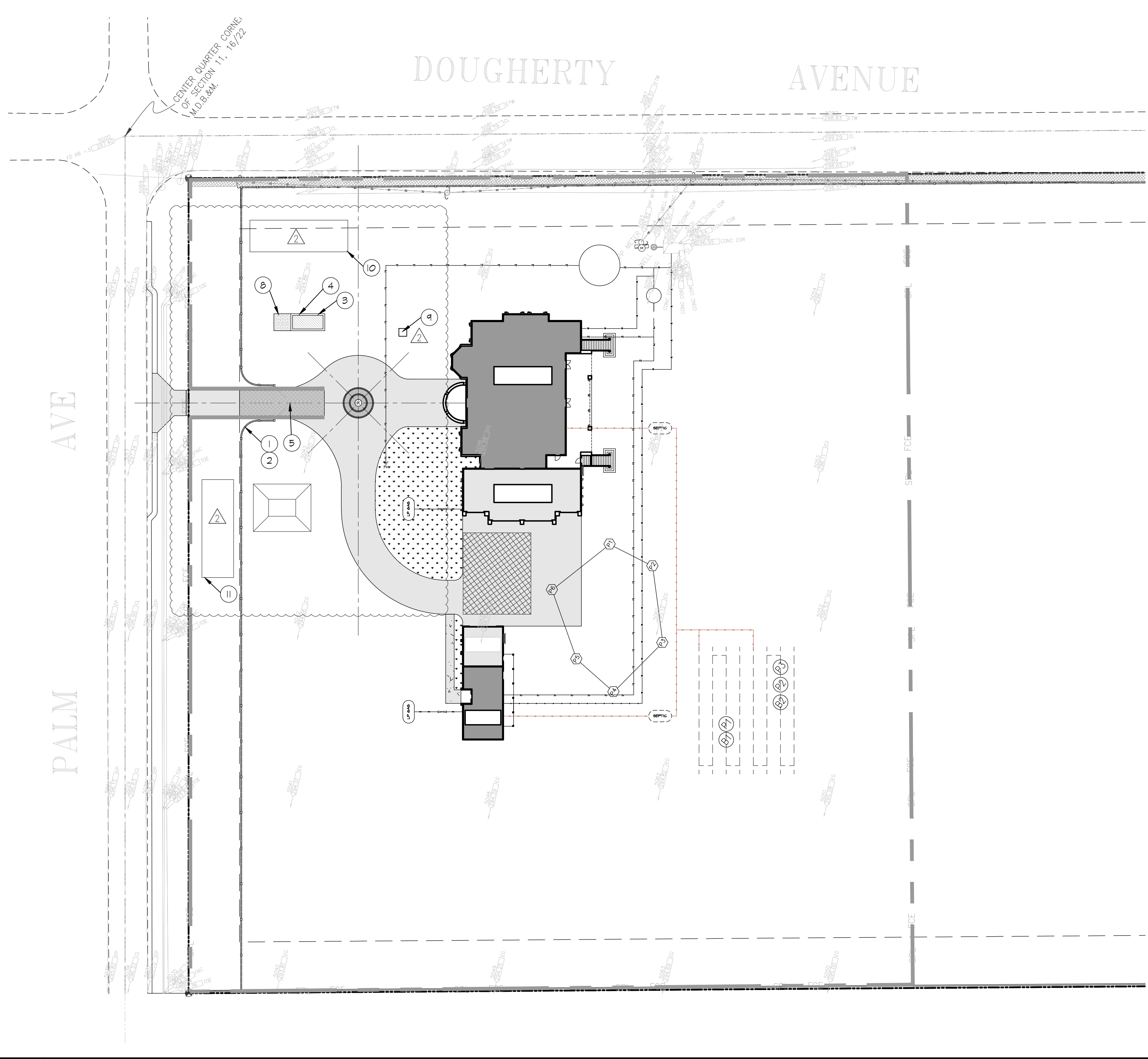
HALF STREET IMPROVEMENT

CVEAS Job #:	16067
Current Release Date:	xxxx
Drawn By:	PM
Planning Submittal Date:	xxxx
P.C. Submittal Date:	
Checked By:	RL
Scale:	AS NOTED

ENGINEER'S CERTIFICATION:
THIS PLAN WILL NOT IMPOSE A DRAINAGE, GRADING OR FLOODING HAZARD TO SURROUNDING PROPERTIES.
Peter Pao Moua
PETER PAO MOUA, P.E.
LIC. NO. C61918
2/2/2023
DATE

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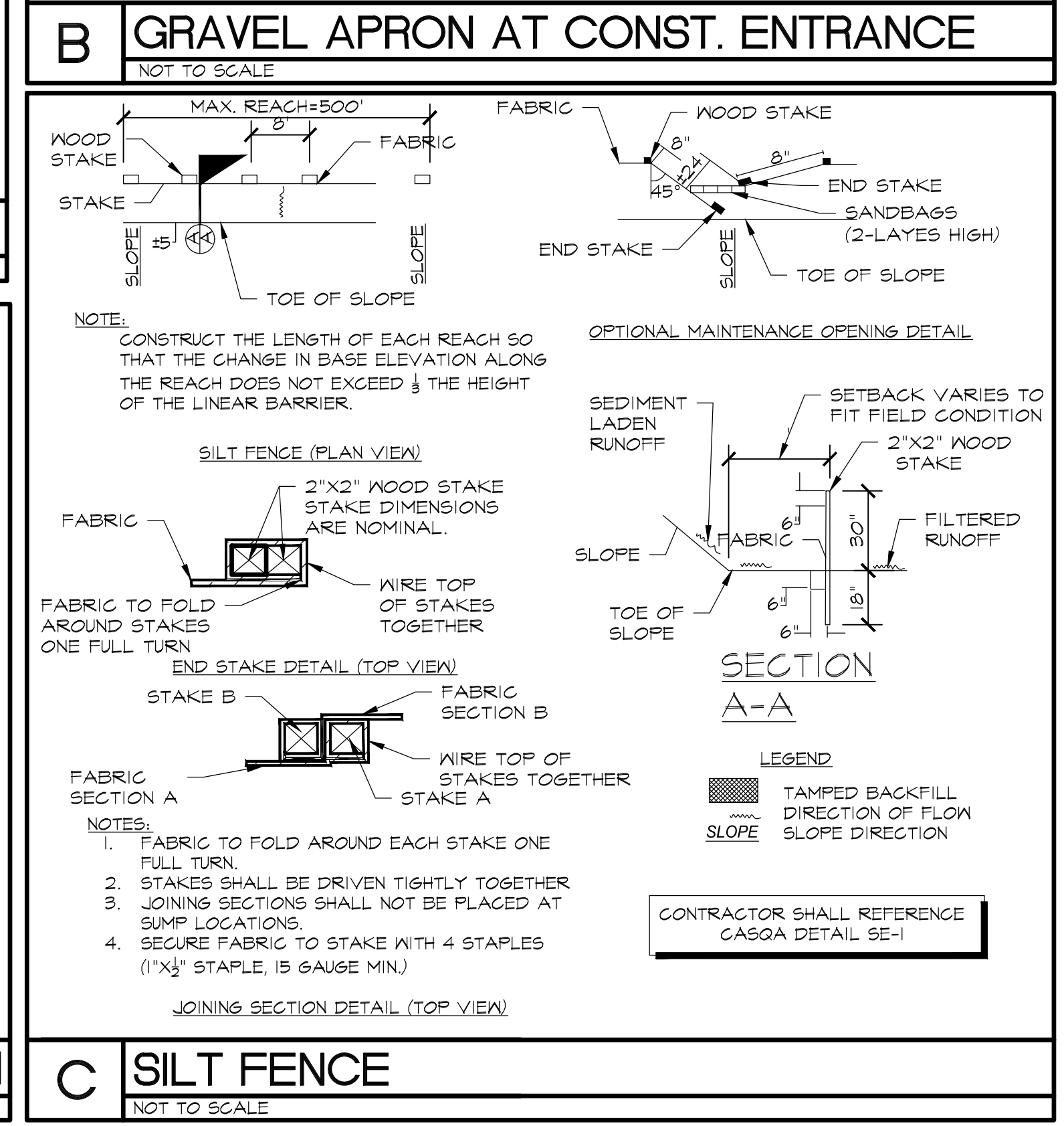
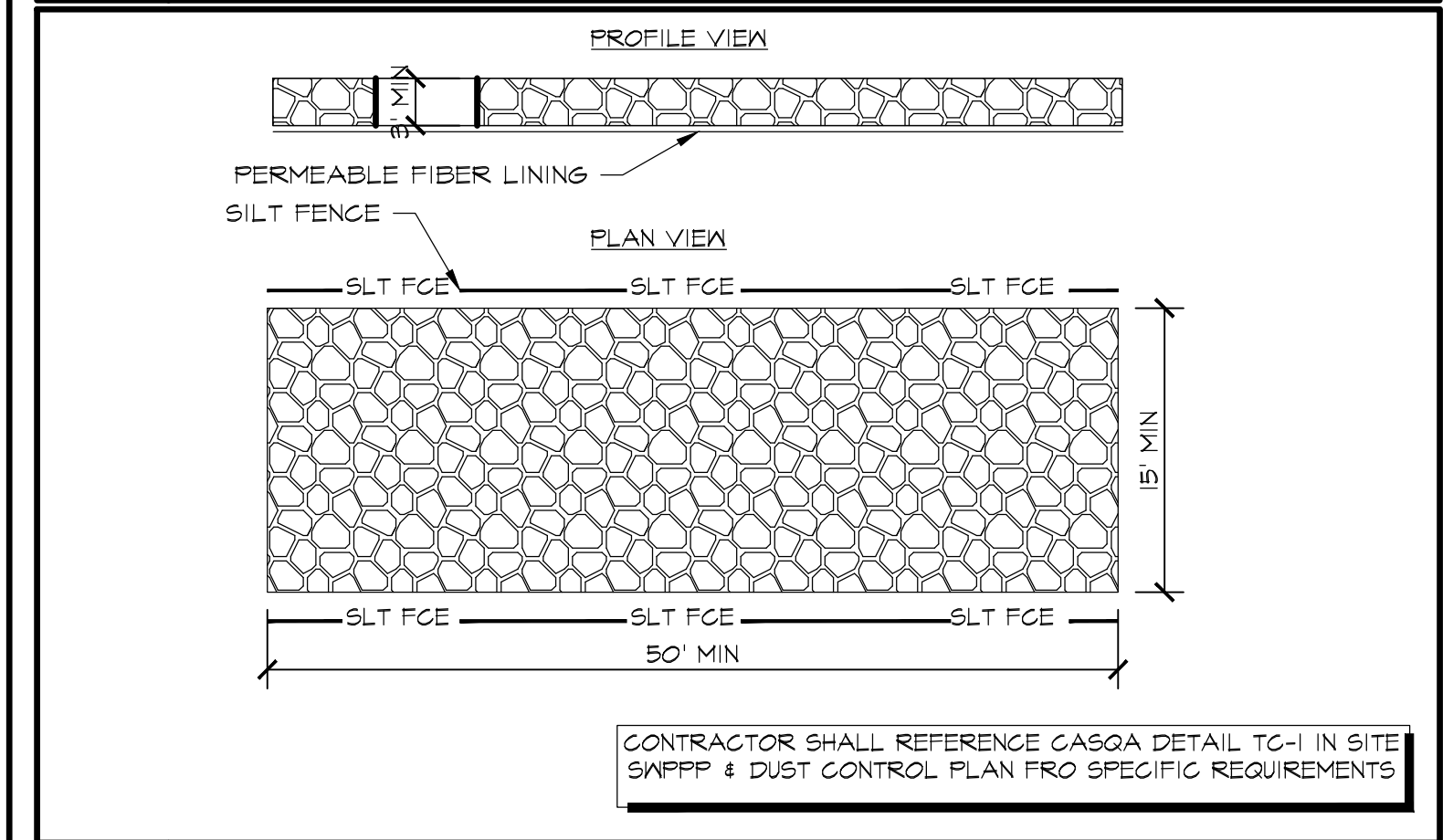
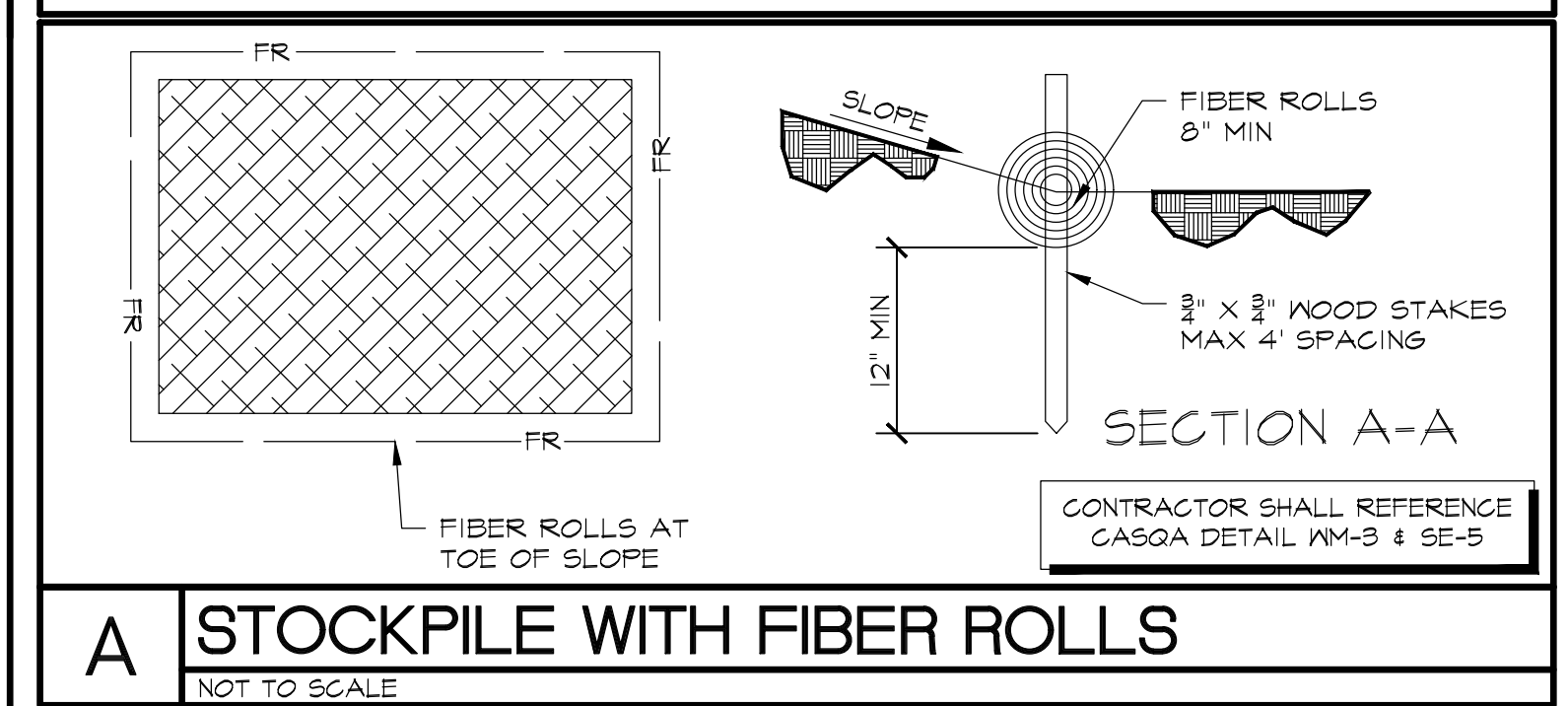
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1 EROSION CONTROL PLAN
SCALE: 1"=40'

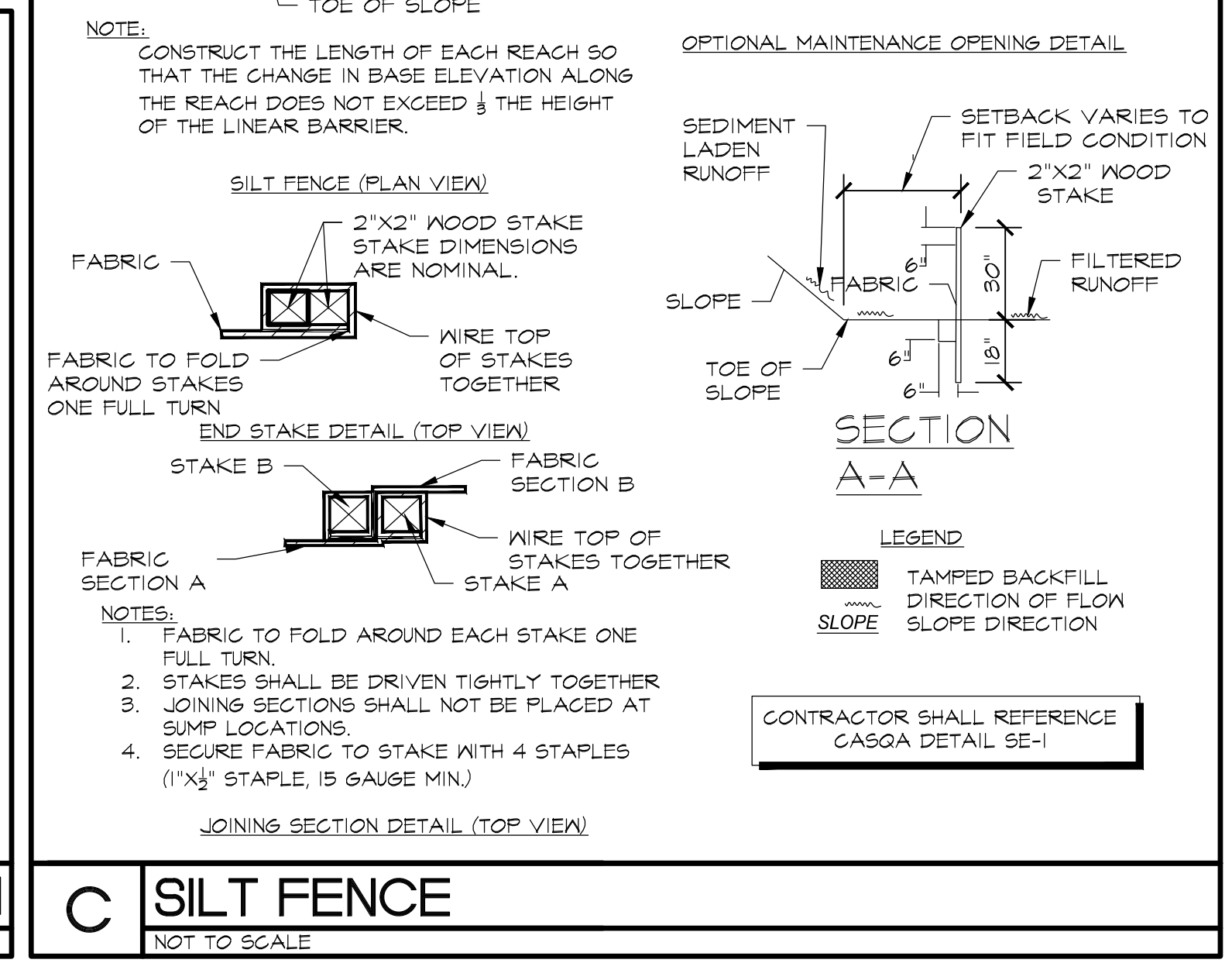
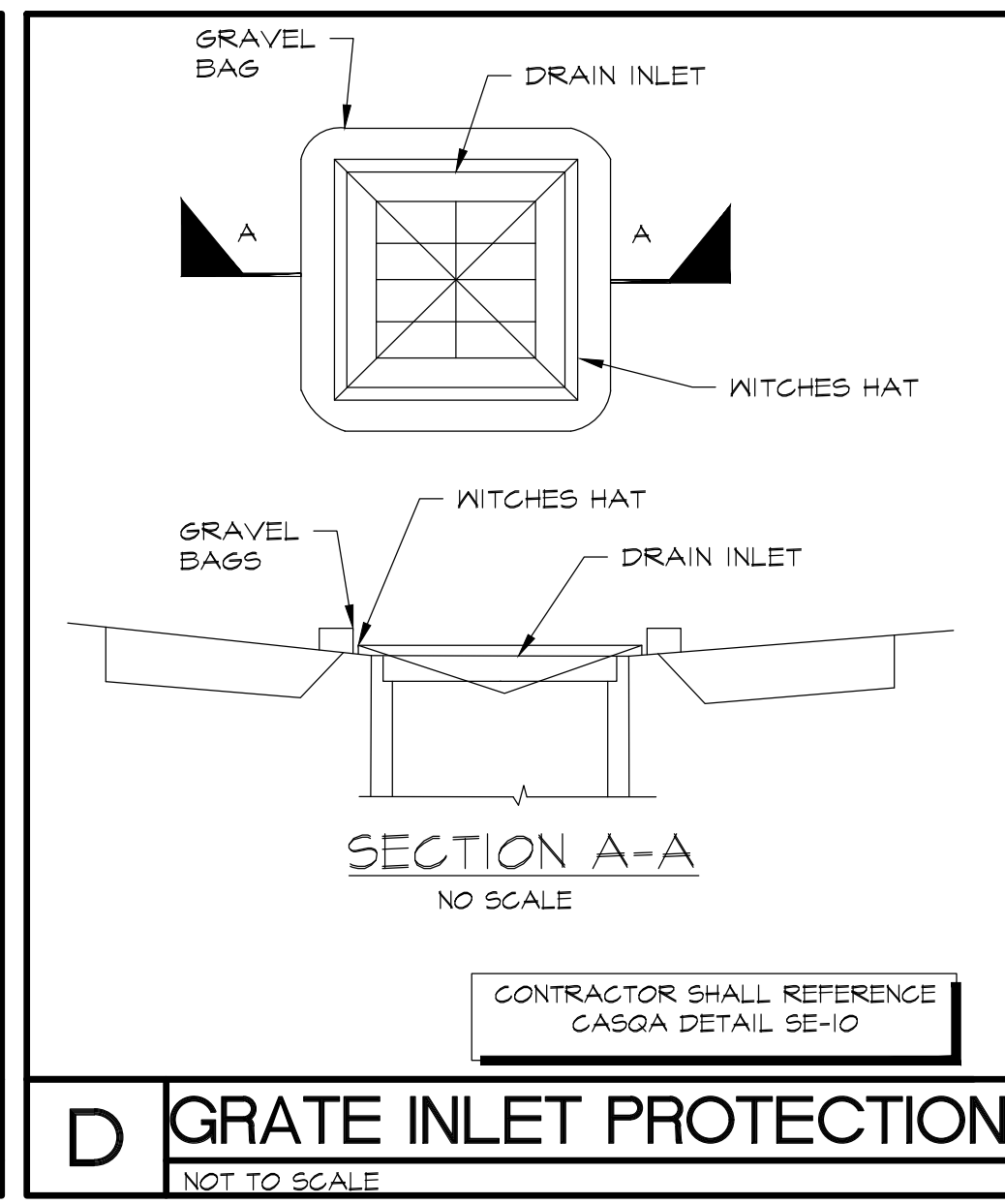
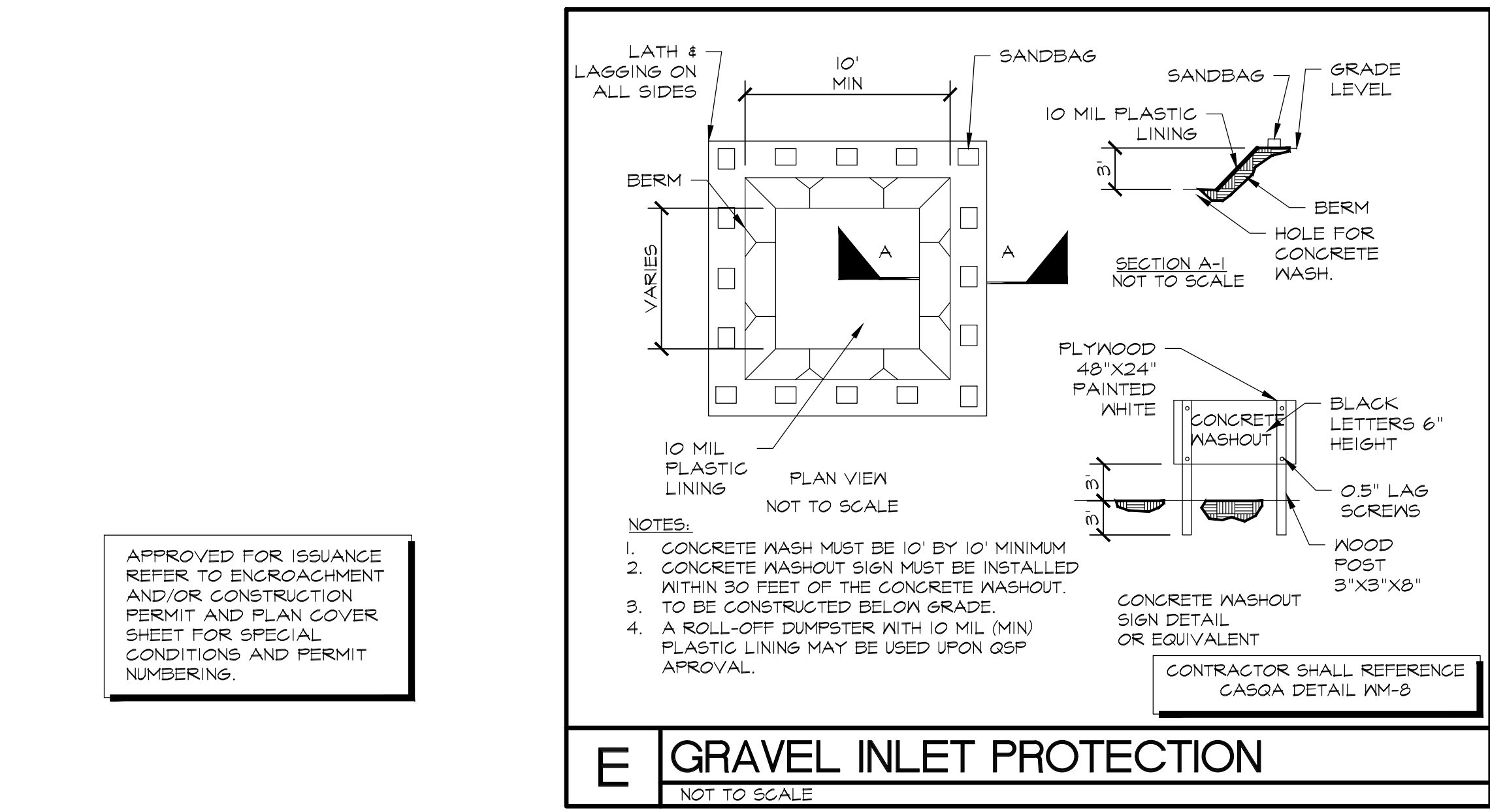
LEGEND

- MATERIALS LAY-DOWN AND STOCKPILE AREA & EQUIPMENT PARKING WITH PROTECTIVE OIL PANS UNDER EQUIPMENT. (SEE DETAIL A)
- GRATE INLET (SEE DETAIL D)
- 50' LONG GRAVEL PAD AT CONSTRUCTION ENTRANCE (SEE DETAIL B)
- CONSTRUCT CONCRETE WASHOUT (PER DETAIL E)
- GRIZZLY/RUMBLE PLATE
- SLT FCE SILT FENCE (DETAIL C)
- FCE SITE BOUNDARY
- PHASE BOUNDARY
- FR FIBER ROLLS (DETAIL A)
- D PROPOSED STORM DRAIN LINE
- 350 FINISHED GROUND CONTOUR
- 354 EXISTING GROUND CONTOUR



- ### STORMWATER POLLUTION PREVENTION NOTES:
- EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE QUALIFIED SWPPP DEVELOPER (QSD) OR THE QUALIFIED SWPPP PRACTITIONER (QSP).
 - GRADED AREAS ADJACENT TO FILL SLOPES LOCATED AT THE SITE PERIMETER MUST DRAIN AWAY FROM THE TOP OF THE SLOPE AT THE COMPLETION OF EACH WORKING DAY OR EROSION CONTROL BMP'S MUST BE IN PLACE. (EC-1)
 - THE USE OF A GRAVEL BLANKET AT CONSTRUCTION ENTRANCES WITH PUBLIC ROADS IS REQUIRED AT ALL TIMES DURING CONSTRUCTION. (TC-1)
 - THE CONTRACTOR SHALL RESTRICT TRAFFIC AND POST 15 MPH SPEED LIMITS ON THE SITE TO REDUCE DUST. (NE-1)
 - CONTRACTOR SHALL WATER THE SITE AS NEEDED TO ELIMINATE DUST. (MINIMUM OF 650 GALLONS/AC. AND ONCE DAILY. (NE-1)
 - CONSTRUCTION EQUIPMENT SHALL BE PARKED, WHEN NOT IN USE AND FOR MAINTENANCE, IN DESIGNATED AREA (NS-2.10).
 - SILT FENCING, STRAW BALES AND SANDBAGS WILL BE INSTALLED AS DIRECTED BY THE QSD/QSP, AS NEEDED.
 - EXCEPT AS OTHERWISE APPROVED BY THE QSD/QSP ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY OR ON WEEKENDS WHEN THE 48-HOUR RAIN PROBABILITY FORECAST EXCEEDS 50%.
 - ALL LOOSE SOIL AND DEBRIS, WHICH MAY CREATE A POTENTIAL HAZARD TO OFFSITE PROPERTY, SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE QSP.
 - THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE WITHIN THE SITE IS AT THE DISCRETION OF THE QSP.
 - EROSION CONTROL DEVICES WILL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES AND PLANS OF THESE CHANGES SUBMITTED FOR APPROVAL AS REQUIRED.
 - ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM.
 - THIS PLAN HAS BEEN CREATED AS A BEGINNING CONCEPT ONLY. IF BMP'S SHOWN ARE DEEMED INEFFECTIVE OR UNNECESSARY, QSP IS TO REMOVE OR SELECT ALTERNATIVE BMP'S FROM CASQA'S HANDBOOK AND REDLINE THIS PLAN AS NEEDED.
 - WHILE NOT ALL THE LISTED BMP'S ARE NOT INCLUDED IN THE SPECIFIC TEXT OF THE EROSION CONTROL PLAN MANY OF THESE ITEMS ARE STILL NECESSARY TO ADDRESS SPECIFIC CONSTRUCTION PROCEDURES THE CONTRACTOR PLANS IMPLEMENT. THESE ITEMS SUCH AS REFUELING STATIONS, BATCH PLANTS, WASTE FACILITIES AND THE LIKE ARE NOT SPECIFICALLY SITED ON THE PLAN BUT STILL ARE REQUIRED TO BE ADDRESS BY THE CONTRACTORS BASED ON THE CONTRACTORS PLANNED LOCATIONS.
 - ALL BMP'S MAY NOT BE LISTED ON THIS EROSION CONTROL PLAN. THE CONTRACTOR IS REFERRED TO BE FAMILIAR WITH THE SWPPP DOCUMENT FOR THIS SITE, AS IT MAY INCLUDE ADDITIONAL NECESSARY BMP'S.

- ### DUST CONTROL NOTES:
- CONSTRUCTION OF THE PROJECT REQUIRES THE IMPLEMENTATION OF CONTROL MEASURES RECOMMENDED BY THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT THAT CAN REDUCE FUGITIVE DUST EMISSIONS ASSOCIATED WITH THIS PROJECT.
- ALL DISTURBED AREAS, INCLUDING STORAGE PILES, WHICH ARE NOT BEING ACTIVELY UTILIZED FOR CONSTRUCTION PURPOSES, SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER COVERED WITH A TARP OR OTHER SUITABLE COVER, OR VEGETATIVE GROUND COVER.
 - ALL ONSITE UNPAVED ROADS AND OFFSITE UNPAVED ACCESS ROADS SHALL BE EFFECTIVELY STABILIZED OF DUST EMISSIONS USING WATER.
 - ALL LAND CLEARING, GRUBBING, SCRAPING, EXCAVATION, LAND LEVELING, GRADING, CUT & FILL, AND DEMOLITION ACTIVITIES SHALL BE EFFECTIVELY CONTROLLED OF FUGITIVE DUST EMISSIONS UTILIZING APPLICATION OF WATER OR BY PRESOAKING.
 - WHEN MATERIALS ARE TRANSPORTED OFFSITE, ALL MATERIALS SHALL BE COVERED, OR EFFECTIVELY NETTED TO LIMIT VISIBLE DUST EMISSIONS, AND AT LEAST SIX INCHES OF FREEBOARD SPACE FROM TOP OF THE CONTAINER SHALL BE MAINTAINED.
 - ALL OPERATIONS SHALL LIMIT OR EXPEDITIOUSLY REMOVE THE ACCUMULATION OF MUD OR TRACK-OUT FROM ADJACENT PUBLIC STREETS AT THE END OF EACH WORKDAY. (USING A PM10-EFFICIENT METHOD, SE-7).
 - FOLLOWING THE ADDITION OF MATERIALS TO, OR THE REMOVAL OF MATERIALS FROM, THE SURFACE OF OUTDOOR STORAGE PILES, SAID PILES SHALL BE EFFECTIVELY STABILIZED OF FUGITIVE DUST EMISSIONS UTILIZING SUFFICIENT WATER AND COVERING.
 - ASPHALT-CONCRETE PAVING SHALL COMPLY WITH BMP THAT PREVENT INFILTRATION OF PAVING MATERIALS AND RUNOFF INTO STORM DRAIN SYSTEMS (NS-3).
 - CEASE GRADING ACTIVITIES DURING PERIODS OF HIGH WINDS (GREATER THAN 20 MPH OVER A ONE-HOUR PERIOD).
 - LIMIT CONSTRUCTION RELATED VEHICLE SPEEDS TO 15 MPH ON ALL UNPAVED AREAS AT THE CONSTRUCTION SITE.
 - ALL DUST CONTROL MEASURES ARE NOT NECESSARY LISTED HERE ON THIS PLAN. THE CONTRACTOR IS REFERRED TO THE DUST CONTROL PLAN FOR THE PROJECT AND/OR SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT RULES TO CHECK COMPLIANCE.



- ### CONSTRUCTION NOTES:
- POST 'NO TRESPASSING' SIGN AT PROJECT ENTRANCE(S)
 - POST 'CONSTRUCTION TRAFFIC 15 MPH' SIGN AT PROJECT ENTRANCE(S)
 - MATERIAL LAY-DOWN AND STOCKPILE AREA. (DETAIL A)
 - EQUIPMENT PARKING WITH PROTECTIVE OIL PANS UNDER EQUIPMENT.
 - GRAVEL PAD AT CONSTRUCTION ENTRANCE MIN. 50' LONG (SEE DETAIL B)
 - INLET PROTECTION WITH GRAVEL BAGS. (SEE DETAIL D)
 - STOCKPILE FOR ALL PHASES (PLACE FIBER ROLLS AT TOE OF SLOPE ALL THE WAY AROUND THE STOCKPILE) (SEE DETAIL A)
 - CONTRACT CONCRETE WASHOUT (PER DETAIL E)
 - LOCATION OF PORT-O-LET (PORTABLE TOILET)
 - HAZARDOUS MATERIAL STORAGE AREA
 - CONSTRUCTION PARKING AREA

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PROJECT
**NEW SINGLE FAMILY RESIDENCE FOR:
 GURDEEP DHADWAL
 PALM AND DOUGHERTY AVE.
 MORGAN HILLS, CA 95037
 APN: 712-27-043**

REGISTERED PROFESSIONAL ENGINEER
 RICARDO LEAL
 No. C 70825
 Exp. 06-30-23
 CIVIL
 STATE OF CALIFORNIA
 DATE SIGNED: 2/3/2023

Revisions:	Date:
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EROSION CONTROL PLAN

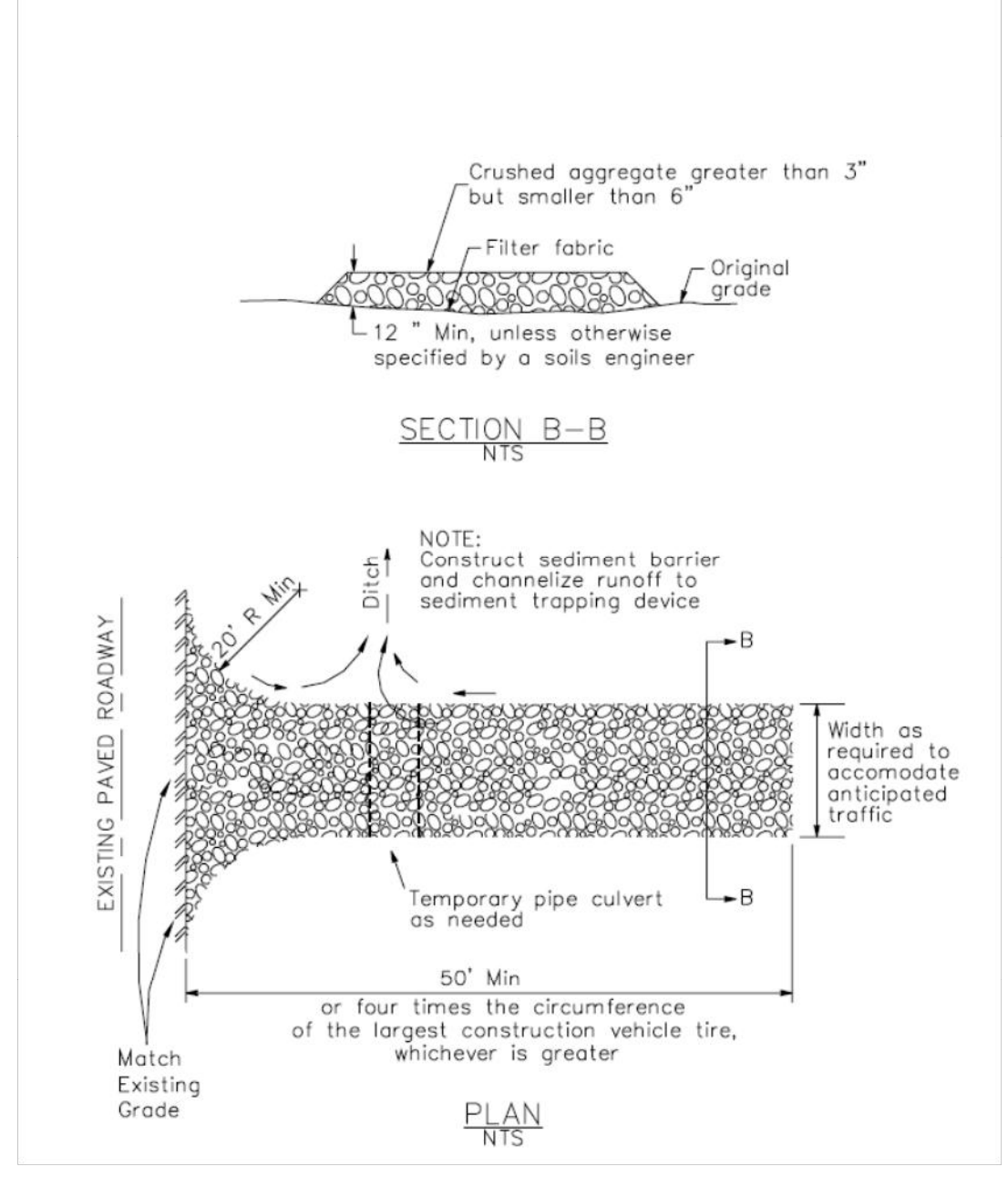
CVEAS JOB #:	22146
DATE:	2/3/2023
PLANNING SUBMITTAL #:	XX-XXXX
PLAN CHECK SUBMITTAL #:	XX-XXXX
DRAWN BY:	KX
CHECKED BY:	RL
SCALE:	NOTE ON PLANS

C5

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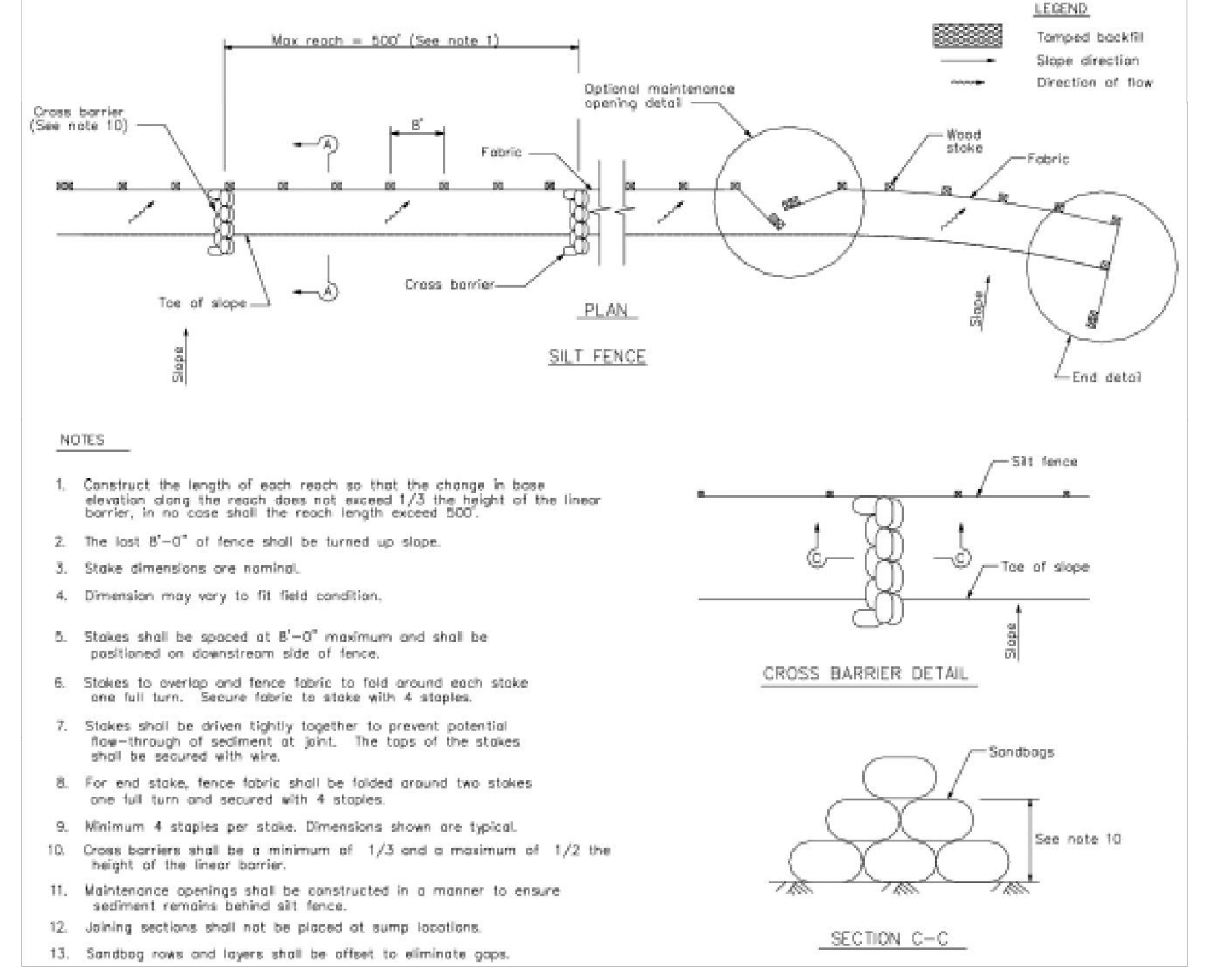
3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



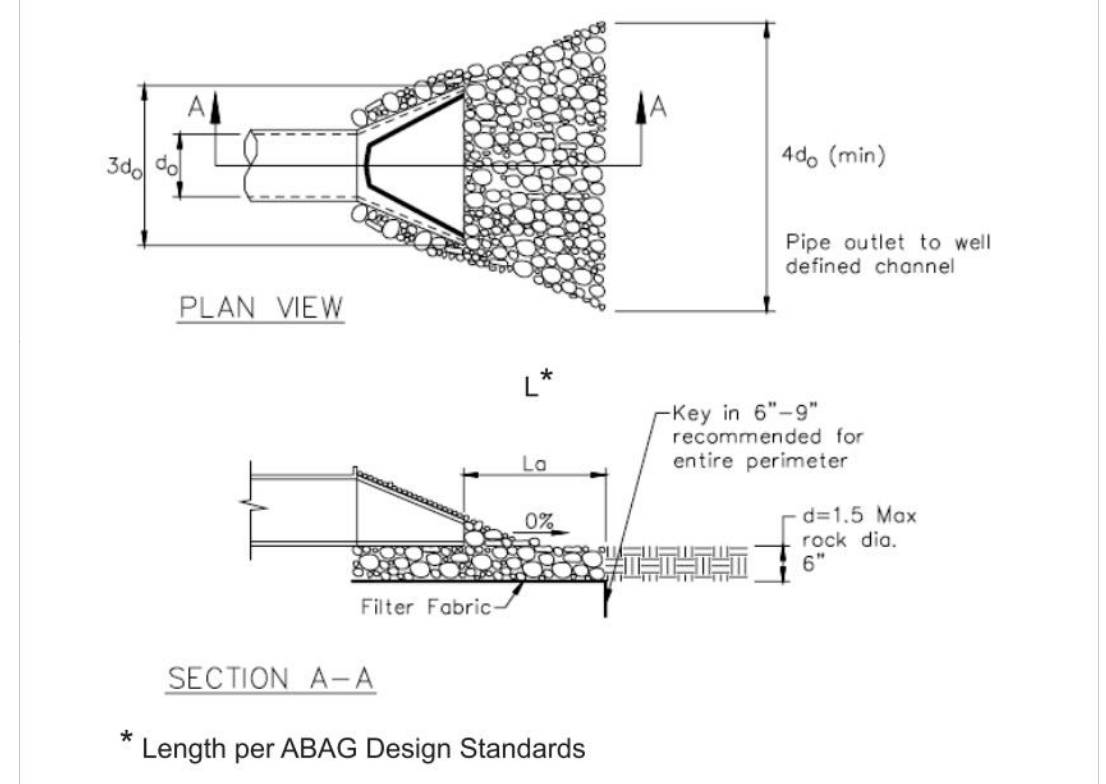
1 Silt Fence

CASQA Detail SE-1



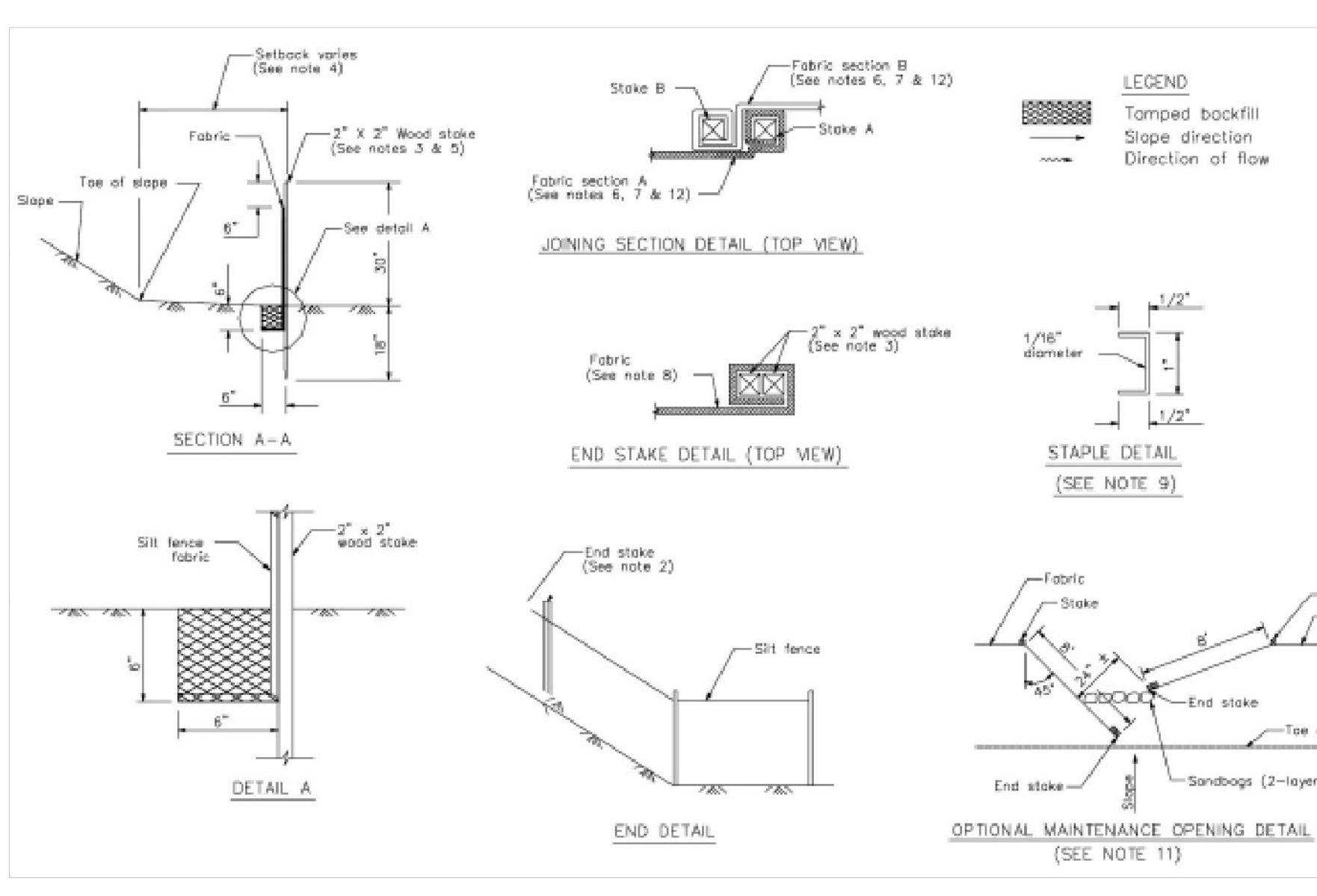
4 Velocity Dissipation Devices

CASQA Detail EC-10



2 Silt Fence

CASQA Detail SE-1



STANDARD BEST MANAGEMENT PRACTICE NOTES

- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

- Sediment Control Management:**
 - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
 - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
 - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
 - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
 - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- 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 the erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

Best Management Practices and Erosion Control Details Sheet 1

County of Santa Clara



BMP-1

Project Information

PROJECT
 NEW SINGLE FAMILY RESIDENCE FOR:
 GURDEEP DHADWAL
 PALM AND DOUGHERTY AVE.
 MORGAN HILLS, CA 95037
 APN: 712-27-043



DATE SIGNED: 2/3/2023

Revisions	Date
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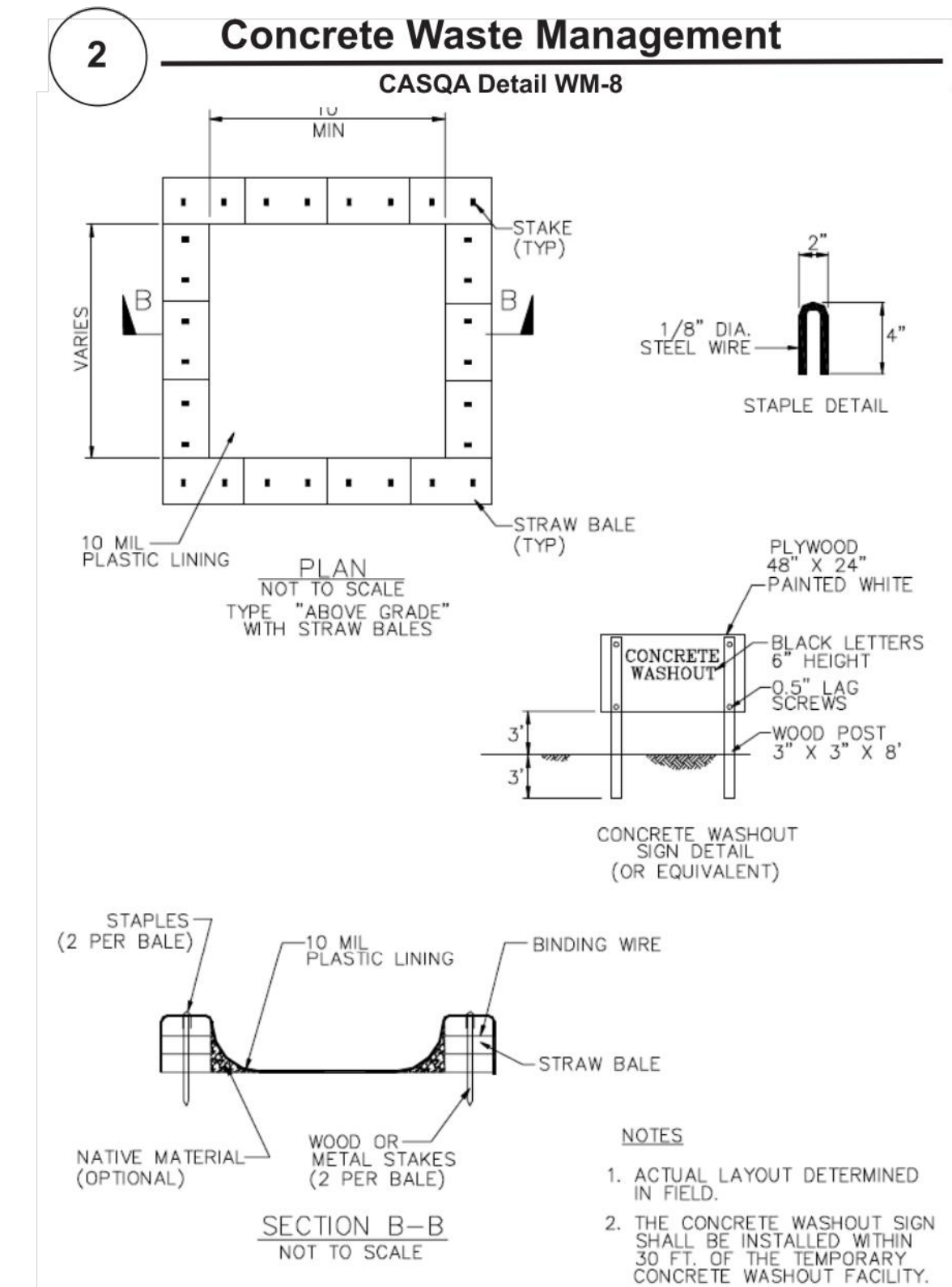
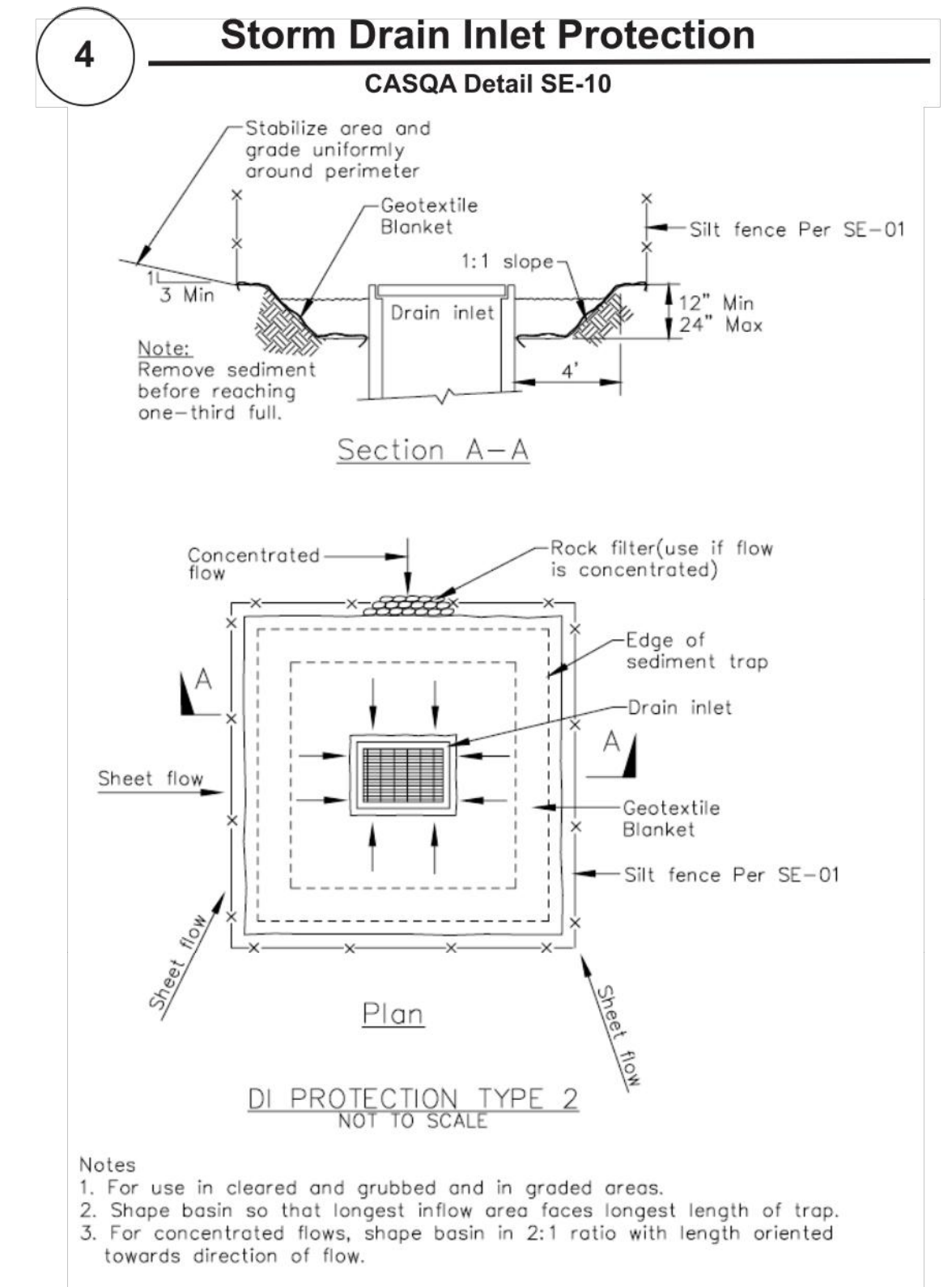
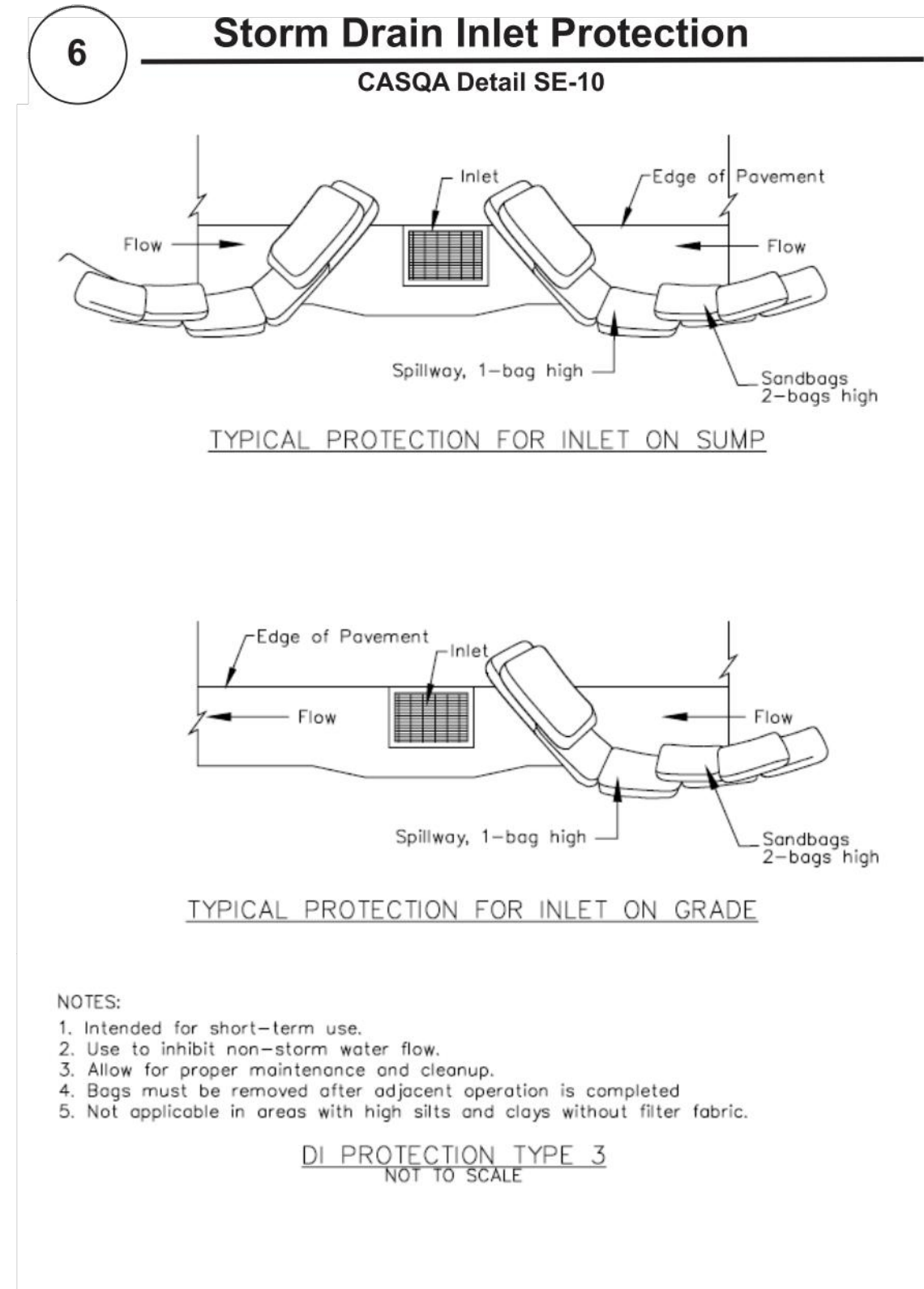
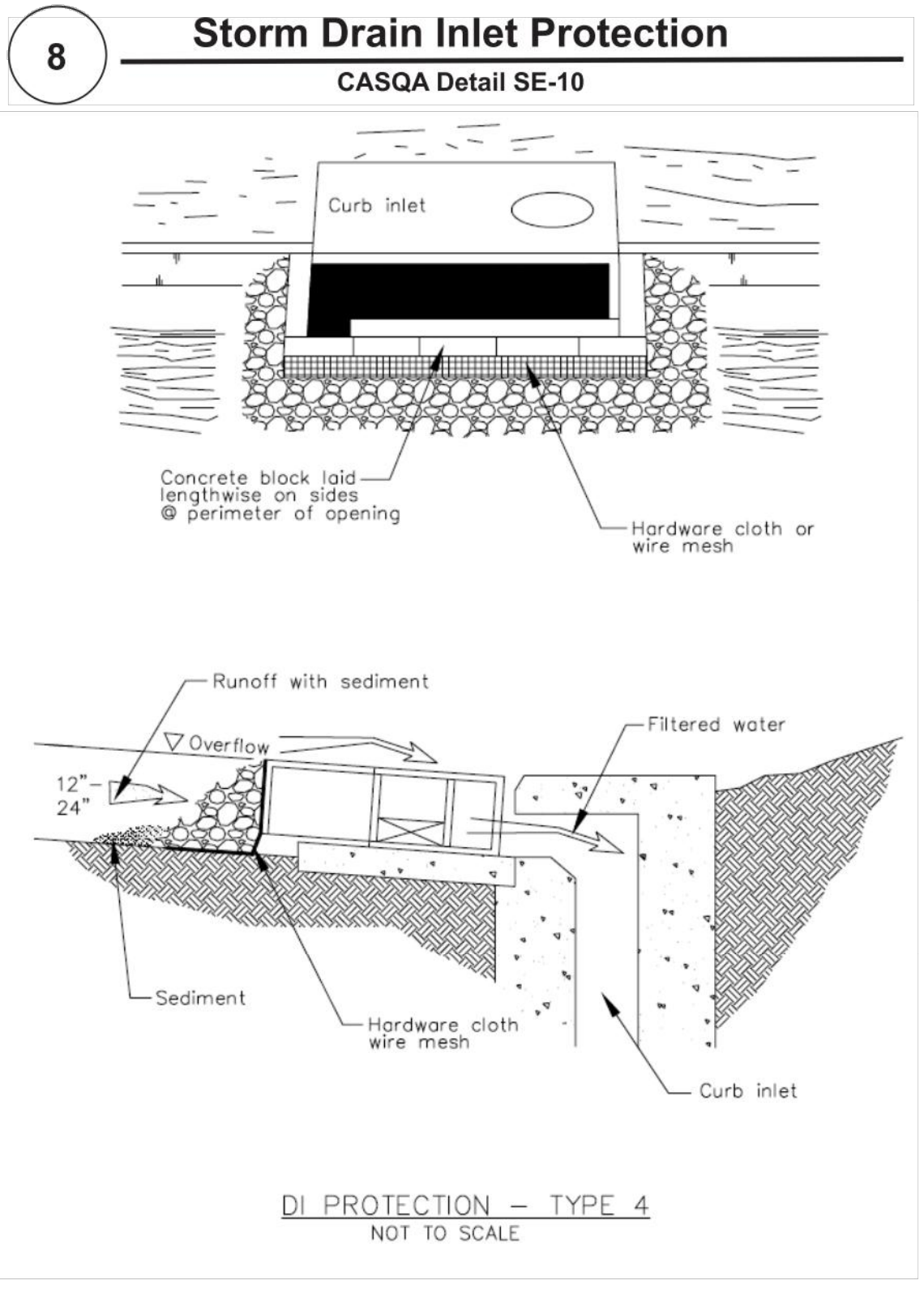
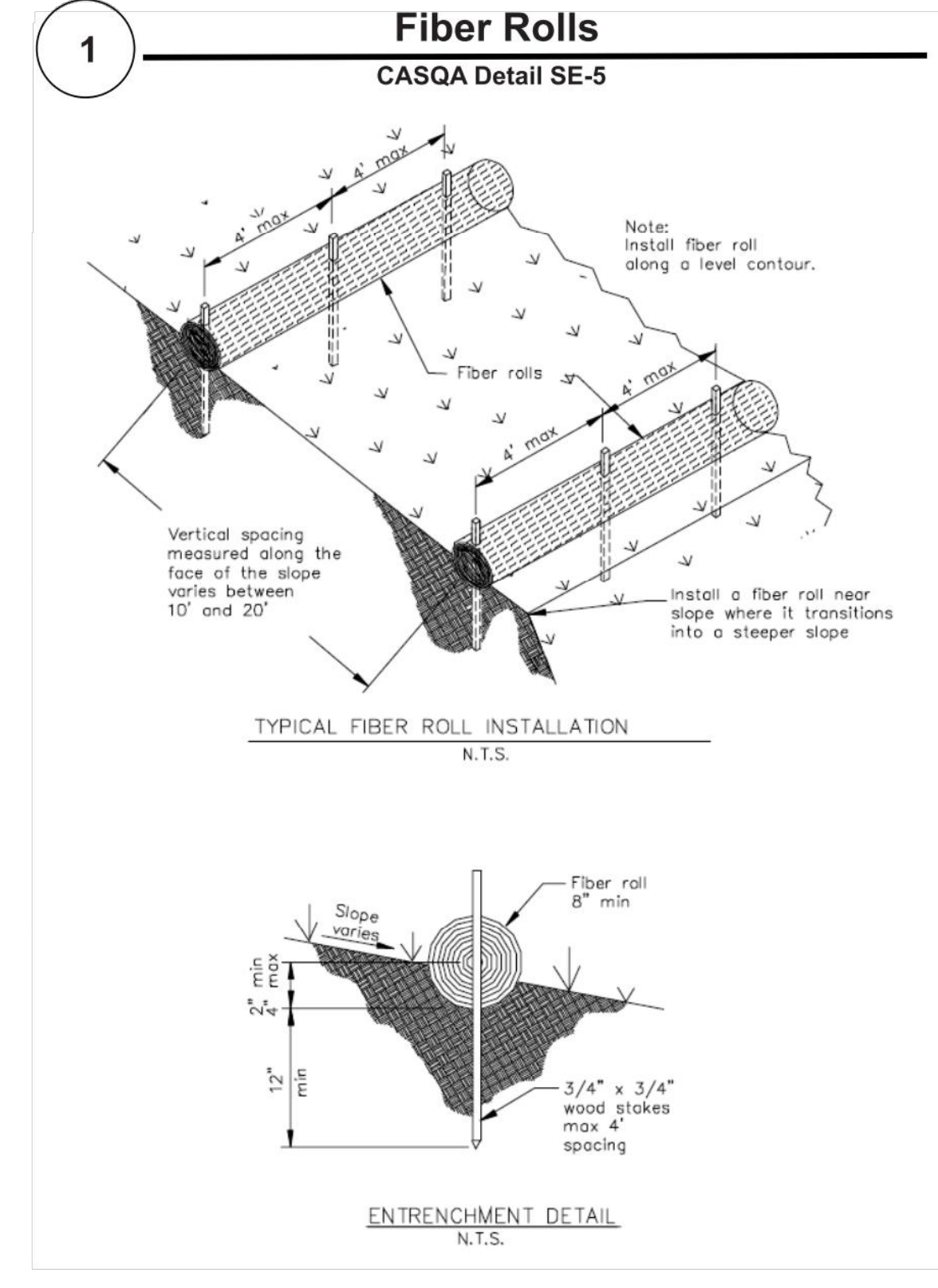
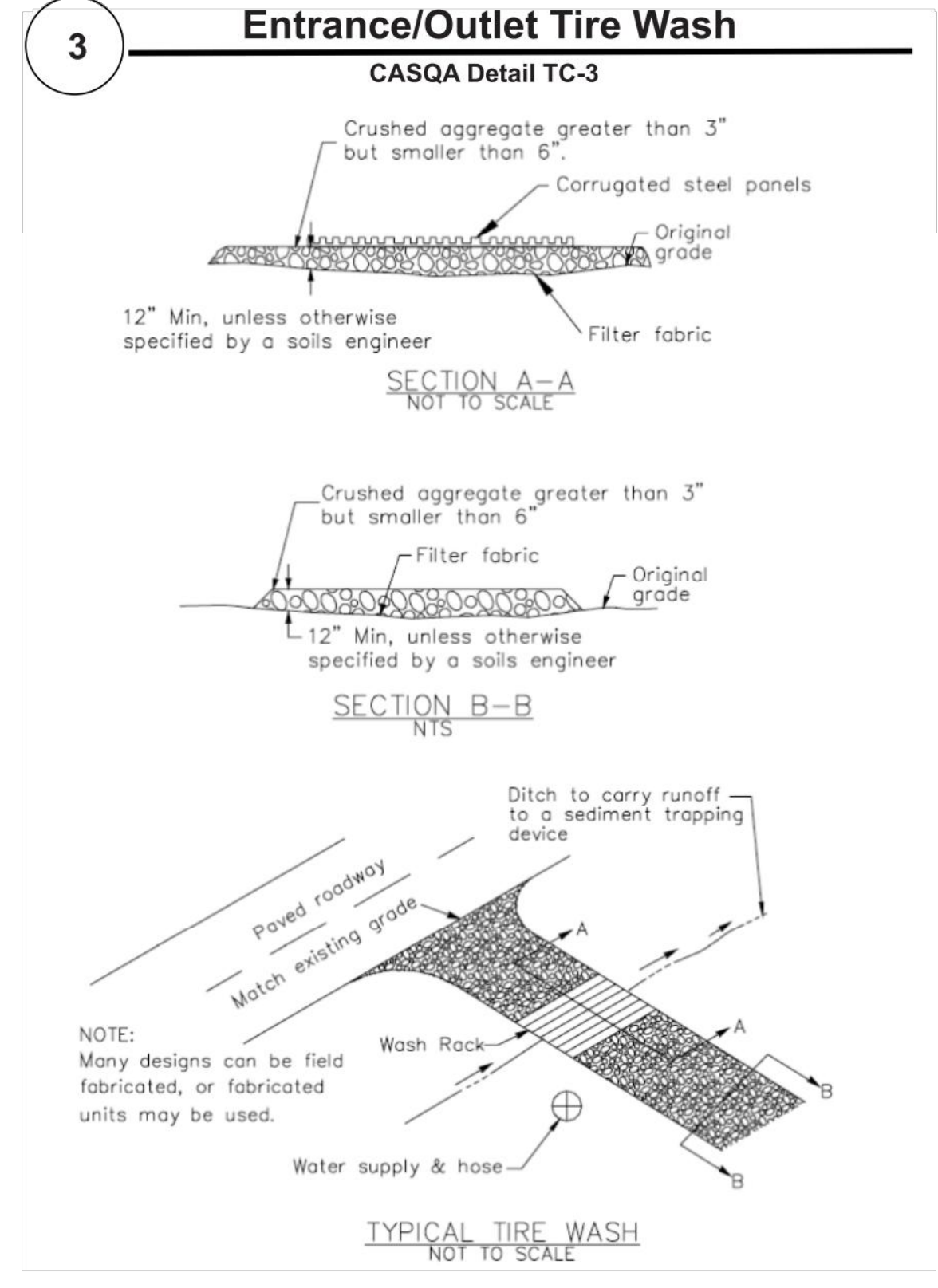
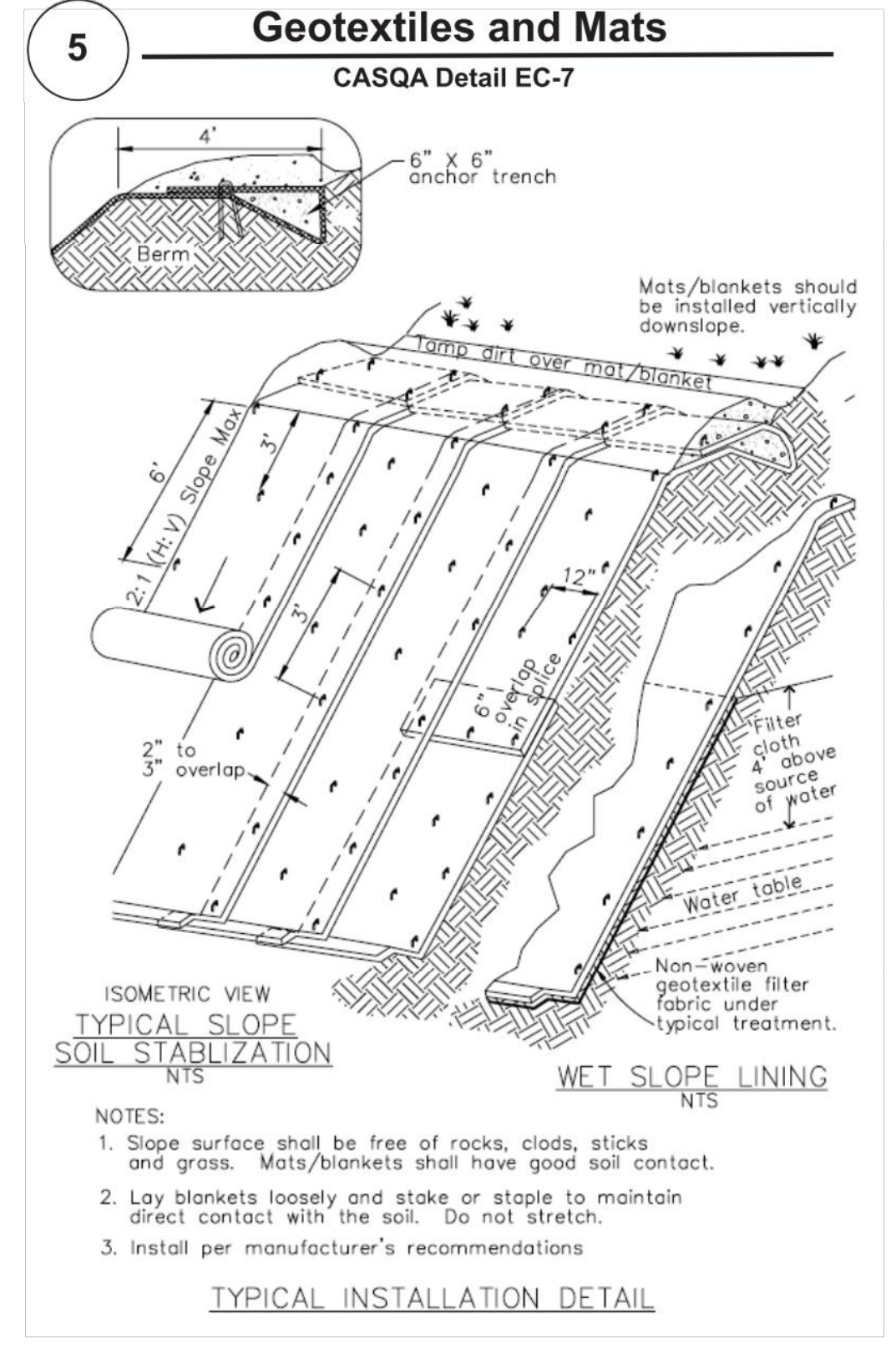
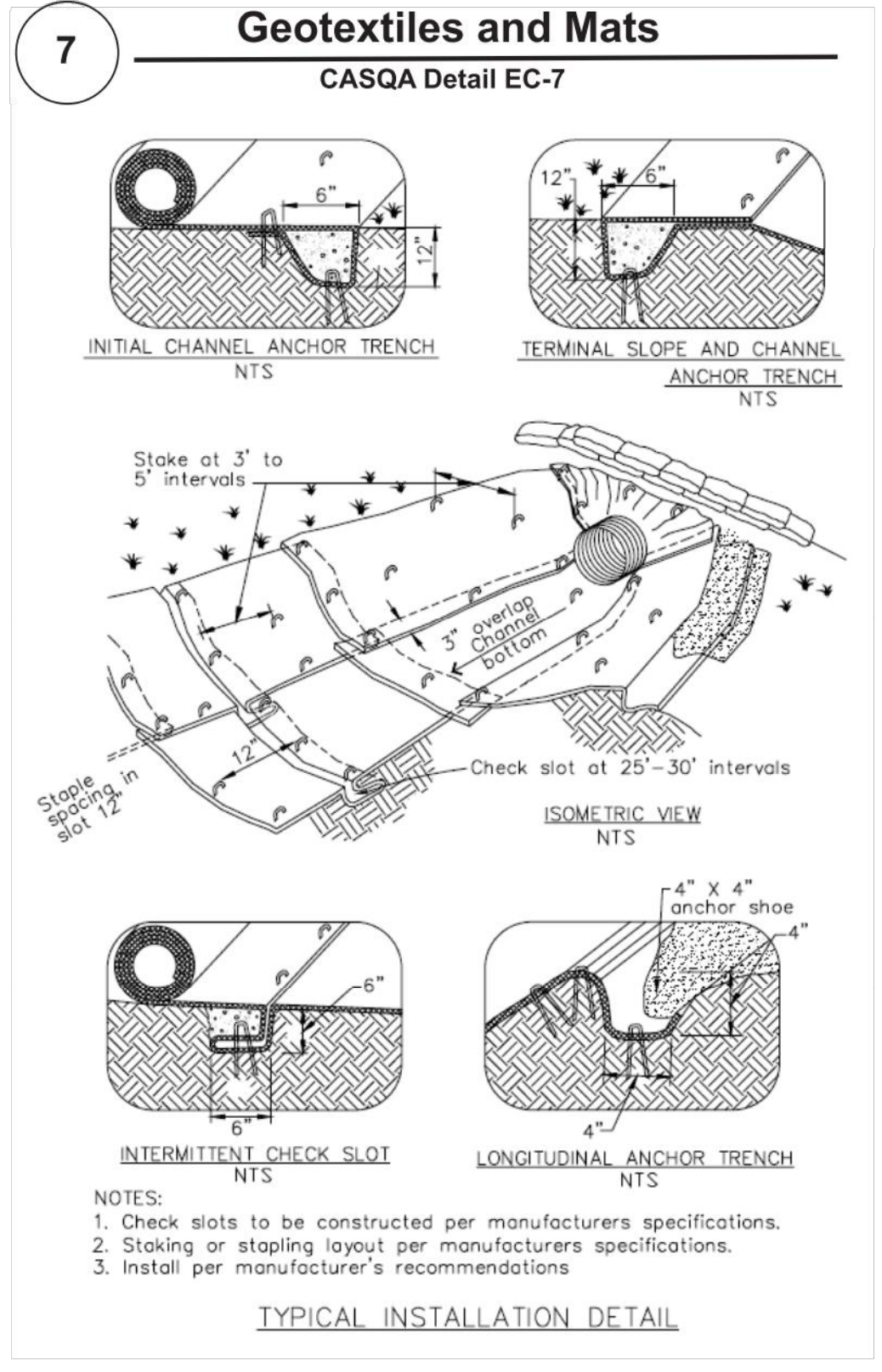
SANTA CLARA COUNTY ROAD AND AIRPORT STANDARDS

CVEAS JOB #:	22146
DATE:	2/3/2023
PLANNING SUBMITTAL #:	XX-XXXX
PLAN CHECK SUBMITTAL #:	XX-XXXX
DRAWN BY:	KX
CHECKED BY:	RL
SCALE:	NOTE ON PLANS

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.

C6

ALL DETAILS, SPECIFICATIONS, DIMENSIONS AND NOTES ARE TO BE USED IN CONJUNCTION WITH THE APPLICABLE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.



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Project Information

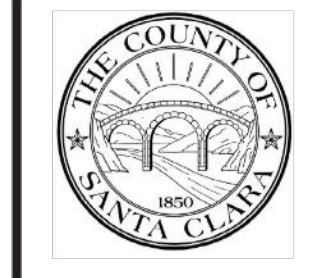
PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043

Revisions	Date
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SANTA CLARA COUNTY ROAD AND AIRPORT STANDARDS

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Best Management Practices and Erosion Control Details Sheet 2
County of Santa Clara



BMP-2

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C7

CIVIL ENGINEERING • LAND SURVEYING • CONSULTING • STRUCTURAL DESIGN • ARCHITECTURAL DRAFTING • COMMERCIAL & RESIDENTIAL BUILDING DESIGN • PLANNING & PROJECT MANAGEMENT

ALL UTILITIES, STRUCTURES, AND OTHER FEATURES SHOWN ON THIS DRAWING ARE BASED ON THE PROPERTY RECORDS AND RECORD DRAWINGS OF SANTA CLARA COUNTY. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION SHOWN ON THIS DRAWING.

PROJECT
NEW SINGLE FAMILY RESIDENCE FOR:
GURDEEP DHADWAL
PALM AND DOUGHERTY AVE.
MORGAN HILLS, CA 95037
APN: 712-27-043

NOTES

- The driveway approach structural section shall be constructed of one of the following sections:
 A. 2" Asphalt Concrete (AC) on 100 mm (4") class 1 Aggregate Sub-base (ASB).
 B. 150 mm (6") deep strength AC.
 C. 100mm (4") class B concrete on 100mm (4") class 3 Aggregate Base (AB)**
- A weakened plane joint is required at location shown when 100 mm (4") class B concrete driveway approach section is installed.
- The permittee shall provide erosion protection plantings and facilities when and as required by Road Commissioner.
- The permittee shall obtain necessary slope easements when required excavations and embankments extend beyond his property or easement.
- All work shall be in accordance with the County's Standard Specifications.
- Install 300 mm (18") min. dia. culvert or valley gutter as specified on the encroachment permit. Culvert material shall be Corrugated Metal Pipe (CMP), Reinforced Concrete Pipe (RCP), double-walled High Density Polyethylene (HDPE), Schedule 80 Polyvinyl Chloride (PVC) or approved equivalent.
- Sight panels shall be installed on both ends of culvert per County Standard Detail B/16.

LEGEND

(E) Existing
 EP Edge of pavement
 (N) New
 ROW Right of way
 W = 12' Min. (Driveway width)
 Z = 92' Min. or Y+60'
 Y = 32' Min. or W+20' (Driveway approach)

METRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
 STANDARD DETAILS
RURAL DRIVEWAY APPROACH FOR SINGLE RESIDENCE
 SHEET NO. B/4
 OF 2

SECTION C-C ALTERNATIVE 1

SECTION C-C ALTERNATIVE 2

METRIC (& ENGLISH) UNITS

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
 STANDARD DETAILS
RURAL DRIVEWAY APPROACH FOR SINGLE RESIDENCE
 SHEET NO. B/4
 OF 2

B4-1 SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT STANDARD DWG.
 SCALE: N.T.S.

B4-2 SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT STANDARD DWG.
 SCALE: N.T.S.

NOTES:

- Single residence (County Standard Detail B/4) and/or Multiple Residence (County Standard Detail B/5).
- New or existing retrofit driveway/driveway approach.
- Driveway approach pavement section and dimensions per County Standard Detail B/4 or B/5.
- Minimum roadway structural section per County Standard Details A/1 through A/9 or match in kind, the more restrictive shall apply.
- Minimum 50 linear feet or to property corner limits, whichever is greater shall apply.
- Rip rap rock energy dissipaters, owner's engineer to determine/calculate size, type and dimensions in conformance with most current County Drainage Manual, as appropriate.
- Provide positive drainage flow across frontage.
- 3-ft aggregate base (AB) shoulder shall be compacted to 90%. Refer to County Standard Detail A/4 for minimum structural section.
- Replace existing shoulder stripe/fog line in kind [e.g., thermoplastic or white reflective paint (2 coats min) etc].

REVISIONS:

NO.	DATE	DESCRIPTION
1	7/10/13	MA
2	7/10/13	RS
3	6/30/14	KV

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT
 STANDARD DETAILS
RURAL DRIVEWAY APPROACH & FRONTAGE INTERIM CONDITION
 SHEET NO. B/4A
 OF 1

B-4A SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT STANDARD DWG.
 SCALE: N.T.S.

STANDARD DETAILS & SPECIFICATIONS

Spec. No. CFMO SD16
 Rev. Date: N/A
 Eff. Date: 04/08/1981
 Approved By: J. Saunders
 Page: 1 of 1

SCOPE

This standard is applicable to required turnarounds for driveways for new or expanded one- and two-family dwellings and/or associated structures where any portion of the protected structure(s) is in excess of 150 feet from the centerline of a public or private roadway (measured by an approved route around the exterior of the building). Specifications contained in this Standard apply to all properties located within unincorporated Santa Clara County.

Turnaround "A"
 30 Ft. x 30 Ft. x 20 Ft.

Turnaround "B"
 30 Ft. x 30 Ft. x 20 Ft.

Turnaround "C"
 32 ft. Radius

Turnaround "D"
 40 Ft. x 48 Ft.

SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE
 70 W. Hedding St., East Wing, 7th Floor • San Jose • CA 95110 • (408) 299-5763

SD-16 SCMO - FIRE TRUCK TURN-AROUND
 SCALE: N.T.S.

APPROVED FOR ISSUANCE
 REFER TO ENCROACHMENT
 AND/OR CONSTRUCTION
 PERMIT AND PLAN COVER
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SANTA CLARA COUNTY ROAD AND AIRPORT STANDARDS

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SCALE:	NOTE ON PLANS

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Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work vehicle
	Pavement markings that should be removed for a long-term project		

Table 6E-101(CA). Stopping Sight Distance as a Function of Speed on Downgrades.
 (Used as suggested longitudinal buffer space length or location for flagger station)

Speed (mph)	% Downgrade (Buffer Space)		
	-3% (feet)	-6% (feet)	-9% (feet)
20	116	120	126
25	158	165	173
30	205	215	227
35	257	271	287
40	315	333	354
45	378	400	427
50	446	474	507
55	520	553	593
60	598	638	686
65	682	728	785
70	771	825	891
75	866	927	1003

* Exhibit 3-2. A Policy on Geometric Design of Highways and Streets, AASHTO, 2001, p.115.

- Use appropriate TCP as needed during construction depending on type of work (for example, to block a lane, block the shoulder, or work off of the shoulder without blocking it).
- See the County Road Book at www.countyroads.org to confirm "Local Road" classification ("Local Urban", "Local Rural" as shown in note 5a on intro page of County Road Book)
- These TCP sheets for use on Local Roads only. All other classifications require an engineered site-specific plan.

PROJECT
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 GURDEEP DHADWAL
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NO.	REVISIONS	BY	DATE	APP'D		COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT		STANDARD TRAFFIC CONTROL PLANS - LOCAL NOTES & LEGEND				DRAWING No.						
												SUBMITTED:		APPROVED:		TCP		
												DESIGNED	5-2015	DATE				
												DRAWN	5-2015	DATE				
					CHECKED	5-2015	DATE				WORK ORDER No.	ADVERTISEMENT DATE:	CONTRACT No.	FILE No.	SHT No.	OF	Scale	