

This Are Plans For A New Single Family Residence:

SMART HOME OF THE DESERT, INC.

Owner's Address:

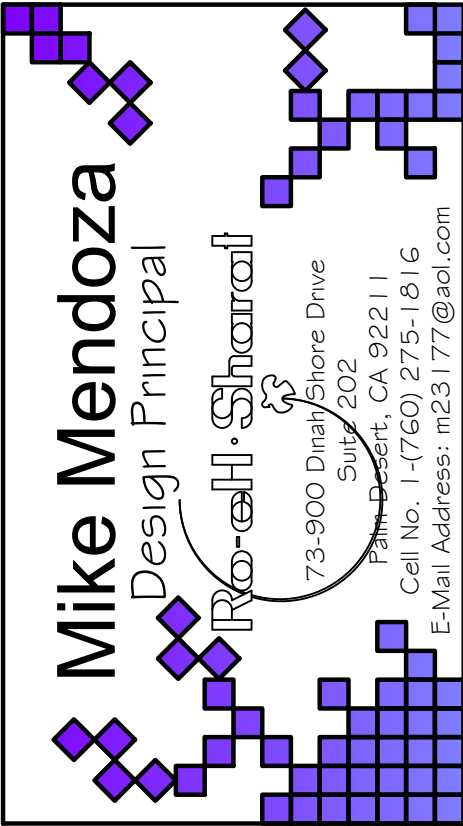
P.O. Box 1313-Desert Hot Springs, CA 92240

Phone No. 1-(760) 999-0999

Email Address: gilberto@smarthomesotd.com

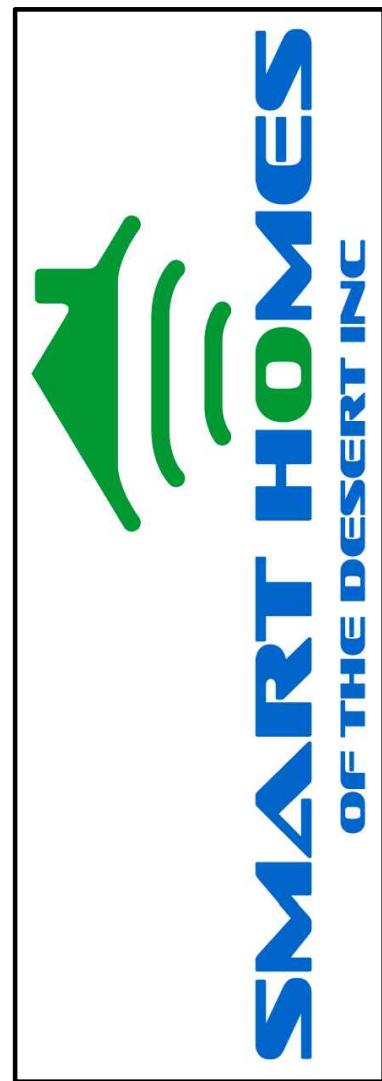
Site Job Address:

Lot No. 271 Cuyamaca Drive-Desert Hot Springs, CA 92240



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Revisions	Date
Plan Check Revisions	00-00-2018



Owner Name:
SMART HOME OF THE DESERT, INC.
Phone No. 1-(760) 999-0999
P.O. Box 1313
Desert Hot Springs, CA 92240
gilberto@smarthomesotd.com

Job Address:
Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:
Title Sheet & General Notes

Date: OCTOBER-2018

Drawn By: Mike Mendoza

Sign By:

Sheet Number:

T1.01

Scale: To Plot 1/4" = 1'-0"

General Notes

Drawings

- These plans and specifications are the property of Mike Mendoza Design Principal and shall Not Be Used for any work other than the project shown herein.
- All work and all construction methods and materials shall comply with all the provisions of the Building Code and other rules, regulations and ordinances governing the place of the building. Building code requirements in all cases take precedence over the drawings. It shall be responsibility of anyone supplying labor or materials or both to bring to the attention of the designer any discrepancies or conflicts between the requirements of the code and the construction documents.
- Contractor hereby warranties to the owner and the Designer that all materials, fixtures and equipment furnished to the project is new unless noted otherwise. Contractor also warrants that all work will be of good quality and free of any faults and defects.
- Temporary barriers and or a protective construction fence shall be constructed in accordance with the rules, regulations and ordinances governing the place of the building.
- All contractors providing work and or materials to the project must verify all dimensions, elevations and site conditions and shall notify Designer of any discrepancies before construction.
- All omissions or conflicts between the various elements of the working drawings, specifications and the general notes shall be brought to the attention of the Designer prior to submittal of the contractors bid.
- General notes, notes and typical details apply drawings unless noted otherwise.
- Framing conditions not specifically shown shall be framed similar to the details shown for the respective materials.
- Provide opening and supports for mechanical equipment, ducts, piping, vents, etc. as required. Refer to architectural and mechanical drawings for additional openings and equipment not shown on the structural drawings.
- Written dimensions take precedence. DO NOT SCALE.
- All dimensions are to the face of the stud, concrete or masonry, unless noted otherwise.
- If existing facilities are related to the work, the contractor shall not disrupt the existing services or utilities without obtaining owners prior to approval and instructions in writing.
- Verify all plumbing and equipment sizes before beginning construction of cabinets.
- The construction documents represent the finish structure. Unless otherwise shown, they do not indicate method of construction. Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, techniques, sequences and procedures. Observation visits required to the site by field representatives of the Designer and or his consultants shall not include inspections of the protective measures required, which is the sole responsibility of the contractor. Any support services perform by the Designer and or his consultants, whether of material or work, and whether performed prior to, during or after completion of construction are performed solely for the purpose of assisting in quality control and in achieving conformance with the contractors performance and shall not be constructed as supervision of construction.
- Contractor is responsible for all coordination between all subcontractors and trades.
- Unless otherwise noted, all vestibules, closets columns, projections, recesses, or other adjacent areas within schedule for the respective spaces in which they occur.
- Anyone supplying labor and or materials to the project shall carefully examine all sub-surfaces to receive work. Any conditions detrimental to the work shall be reported in writing to the contractor prior to the beginning work, commencement of work shall imply acceptance of all subcontractors.
- Any material stored in the site shall be completely supported free from the ground, covered and otherwise protected to avoid damage from elements.
- Fixed windows shall be sealed to limit air filtration.
- General Contractor shall arrange for building permit, plumbing mechanical & electrical, Contractor shall arrange and pay their respective work.
- Structural engineer and T-24 Energy calculations have been performed by others and shall not considered included under the Designer / Design Principal signature unless noted otherwise noted.
- Designer / Design Principal shall review all submittal documents, samples etc. required by these plans & shall be prepared by others for compatibility with the design of the building. General Contractor / Owner shall make such submittals available to the Design Principal for his review.
- All contractors performing work on this project shall submit writing a (1) One year warranty for all materials & workmanship done on this project verify warranties for equipment used.

Building Departament Notes

1) Please Take note the following Code requirements on the Cover Sheet:

- Approved temporary sanitary facilities (i.e. chemical toilets shall be on the construction site prior to request for first inspection). (Health and Safety Code, Section 5416)
- Contractor and/or owner shall provide a trash bin to insure proper clean-up of all building materials.
- Storage of building materials or debris shall be confined to the lot for which the permit is issued. Adjacent vacant properties may not be utilized for this purpose unless written permission of the owner is on file with this office. The public right-of-way shall be maintained in a clear condition at all times.
- Address numerals shall comply with City Of Desert Hot Springs, Ordinance
- CONSTRUCTION HOURS:

Notify DIG ALERT, a free public service provided by Underground Service Alert of Southern California, @ 811 prior to any excavation

- General contractors and/or owner-builders shall submit a completed Sub-Contractor's list to the Building & Safety Department prior to requesting a final inspection. Absolutely no Sub-Contractor's lists will be accepted unless all required information is provided on the appropriate City Of Desert Hot Springs, form.
- Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents."
- All underground materials piping is to be sleeved with an approved plastic sleeve material for corrosion protection.
- See structural notes for concrete strength.
- Separate review, approval and permit are required for grading, accessory buildings and structures, signs, trash enclosures, block walls, retaining walls not supporting the building and demolition work. Contact the City Of Desert Hot Springs, for procedural information.
- All glazing shall have temporary label on the product until the field inspector has inspected it.
- "All or equal substitutions must be submitted to, and approved by the Building Official prior to installation of the item".
- All structural materials will comply with the design calculations and building code requirements.
- All structure, pools walls, etc. Included under this application provide construction details if a part of this permit. Any portion of the project shown on the site plan that is not included with the building permit application filed should be clearly identified as "NOT INCLUDED".

OBSERVATION ON PLAN SECTION 1704.2.1:

Special inspector qualifications. Prior to the start of the construction, the approved agencies shall provide written documentation to the building official demonstrating the competence and relevant experience or training of the special inspectors who will perform the special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities. These qualifications are in addition to qualifications specified in other sections of this code. The registered design professional in responsible charge and engineers of record involved in the design of the project are permitted to act as the approved agency and their personnel are permitted to act as special inspectors for the work designed by them, provided they qualify as special inspectors.

Revisions

No.	Date	Description
	00-00-2018	Plan Check Corrections
	00-00-2018	Plan Check Corrections

Code Analysis

Code Requirements:

This Project Comply with:

DESERT HOT SPRINGS - MUNICIPAL CODE

2016	California Residential Code
2016	California Building Code
2016	California Electrical Code
2016	California Mechanical Code
2016	California Plumbing Code
2016	California Energy Code
2016	California Green Building Standards Code
2016	California Fire Code

All other State and Local Codes that are applicable.
Present California law mandates that all construction comply with the 2016 edition of California Code of Regulations

Required Special Inspections

ITEM	REQ'D ?	REMARKS
DESIGNER SPECIFIED	N/A	
SPECIAL INSPECTION - EPOXY HOLD DOWNS	Yes	Structural-Engineering
RADIANT BARRIER REQUIRED R-21 Insulation On Walls, R-38 Ceilings + R.B.	Yes	Title 24 Report
HERS TEST REQUIRED - HVAC Cooling Verified SEER HERS TEST REQUIRED - HVAC Cooling Verified EER Building Envelope-HERS Verification Quality Insulation Installation	Yes	Title 24 Report
HERS TEST REQUIRED - HVAC Cooling Component 1 heri-cool HERS TEST REQUIRED - HVAC Distribution Systems Ducts-Airt HERS TEST REQUIRED - HVAC Duct Leakage verification	Yes	Title 24 Report
HERS TEST REQUIRED - Duct Leakage Target (% 5.0 HERS TEST REQUIRED - HVAC Fan Watt Draw HERS TEST REQUIRED - IAQ Indoor Air Quality FANS	Yes	Title 24 Report
HERS TEST REQUIRED - HVAC Airflow Verification HERS TEST REQUIRED - Insulation R-Value 8 HERS TEST REQUIRED - Verify Refrigerant Charge	Yes	Title 24 Report

Scope Of Work

- Plans for a New Single Family Residence with a (2) Car Garage Attached.

Property Owners

SMART HOME OF THE DESERT, INC.

Phone No. 1-(760) 999-0999
P.O. Box 1313-Desert Hot Springs, CA 92240
gilberto@smarthomesotd.com

Project Data

Applicant: **SMART HOME OF THE DESERT, INC.**
Phone No. 1-(760) 999-0999
P.O. Box 1313-Desert Hot Springs, CA 92240
gilberto@smarthomesotd.com

Legal Description:

Lot 271 POR. S.W. 31 T. 2 S. R., 5 E.
CITY OF DESERT HOT SPRINGS M.B. 27/46-48 DESERT SPRINGS STATES Map Book 641 Page 18 Riverside County Records, Riverside, California.

A.P.N. #: **641-182-018**

Area Tabulation

Total Land Area:	7,338.00	SQ.FT.	0.168	Acres
Conditioned Living Area:	1,575.0	SQ.FT.		
2-Car Garage Area:	458.0	SQ.FT.		
Covered Entry Area:	165.0	SQ.FT.		

Number Of Stories:

1

Sprinklers:

Yes (Deferral Submittal)

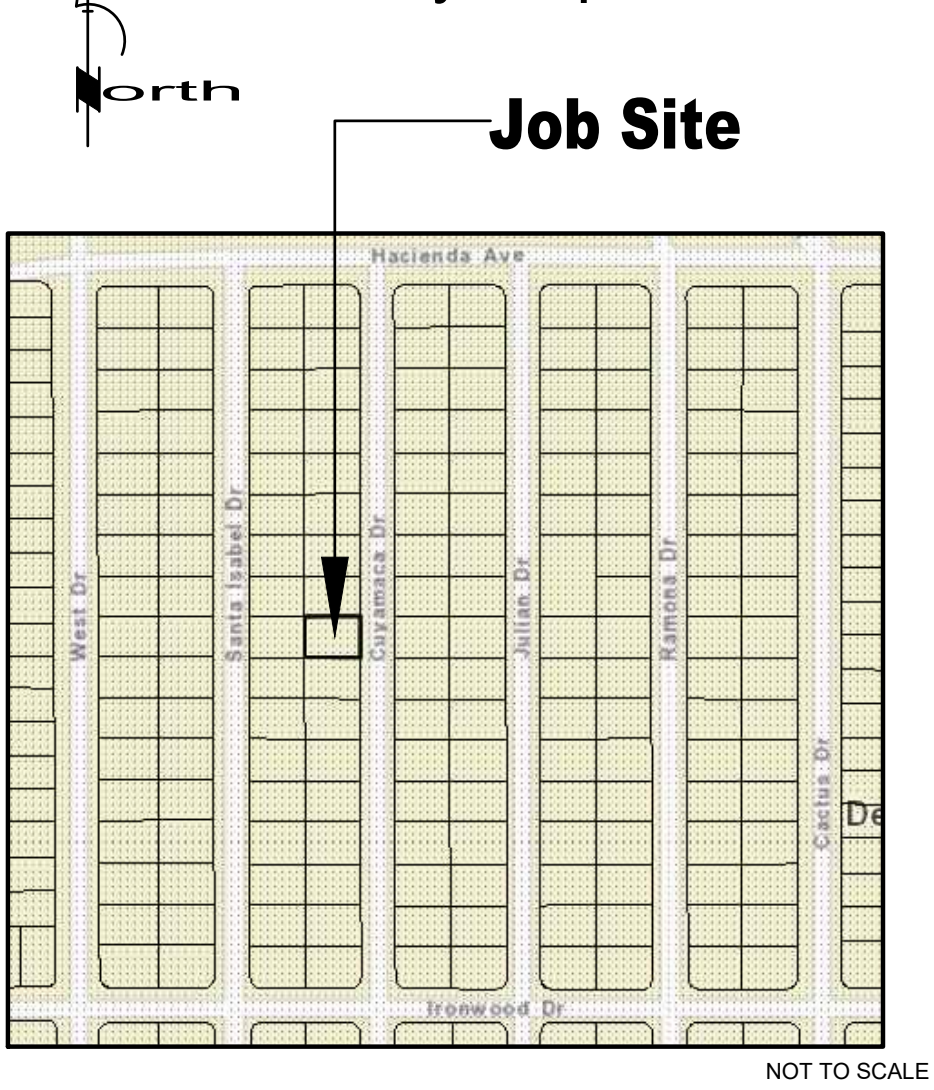
Occupancy:

R-3/U-1

Type " V-B " Construction:

Per Table 601

Vicinity Map



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Smart Home of The Desert, Inc.
Calculation Description: Title 24 Analysis

Calculation Date/Time: 16:06, Sat, Sep 22, 2018
Input File Name: Smart Home of The Desert.rbd16x

CF1R-PRF-01
Page 7 of 8

HVAC DISTRIBUTION - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler
Air Distribution System 1-hers-dist	Required	5.0	Not Required	Not Required	Not Required	Not Required	Required
HVAC - FAN SYSTEMS							
01	02	03	04				
Name	Type	Fan Power (Watts/CFM)	HERS Verification				
HVAC Fan 1	Single Speed PSC Furnace Fan	0.58	HVAC Fan 1-hers-fan				
HVAC FAN SYSTEMS - HERS VERIFICATION							
01	02	03					
Name	Verified Fan Watt Draw	Required Fan Efficiency (Watts/CFM)					
HVAC Fan 1-hers-fan	Required	0.58					
IAQ (Indoor Air Quality) FANS							
01	02	03	04	05	06		
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness(%)	HERS Verification		
SFan IAQventRpt	53	0.26	Default	0	Required		

Registration Number: 218-P01026383A-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2016 Residential Compliance

Registration Date/Time: 2018-09-23 07:56:45
Report Version: CF1R-06282018-1149

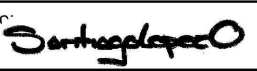

HERS Provider: CalCERTS inc.
Report Generated at: 2018-09-22 16:07:17

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CF1R-PRF-01
Page 8 of 8

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Santiago Lopez-Ocampo	Documentation Author Signature: 
Company: Santiago Lopez-Ocampo	Signature Date: 2018-09-23 06:04:55
Address: P.O. Box 1018 La Quinta, CA 92247	CEA/HERS Certification Identification (if applicable): NA Phone: 760-485-8927
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. 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.	
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Mike Mendoza	Responsible Designer Signature: 
Company: Mike Mendoza	Date Signed: 2018-09-23 07:56:45
Address: P.O. Box 692 Desert Hot Springs, CA 92240	License: NA Phone: 760-275-1816

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.



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CF1R-PRF-01
Page 6 of 8

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10				
Name	Type	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft²)	U-factor	SHGC	Exterior Shading				
5040 @ Living	Window	Ft/E (Left-90)	5.0	4.0	1	20.0	0.30	0.23	Inset Screen (default)				
4040 @ Bed3	Window	Ft/E (Left-90)	4.0	4.0	1.25	20.0	0.30	0.23	Inset Screen (default)				
4040 @ Bed4	Window	Lo/S (Back-180)	----	----	1	20.0	0.30	0.23	Inset Screen (default)				
4040 @ Bed2	Window	Lo/S (Back-180)	----	----	1	20.0	0.30	0.23	Inset Screen (default)				
2030 @ MBath	Window	Lo/S (Back-180)	----	----	1	6.0	0.30	0.23	Inset Screen (default)				
6068 @ MBed	Window	Re/W (Right-270)	----	----	1	40.0	0.30	0.23	Inset Screen (default)				
4040 @ Nook	Window	Re/W (Right-270)	----	----	1	20.0	0.30	0.23	Inset Screen (default)				
6068 @ Dining	Window	Re/W (Right-270)	----	----	1	40.0	0.30	0.23	Inset Screen (default)				
4040 @ Dining	Window	Ri/N (Front-0)	----	----	1	20.0	0.30	0.23	Inset Screen (default)				
4040 @ Dining 2	Window	Ri/N (Front-0)	----	----	1	20.0	0.30	0.23	Inset Screen (default)				
OPAQUE DOORS													
01	02				03			04					
Name	Side of Building				Area (ft²)			U-factor					
3068 Door	Ft/E				20.0			0.50					
OVERHANGS AND FINIS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
		Overhang				Left Fin				Right Fin			
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Top Up	Dist R	Bot Up
5040 @ Living	7	1.33	7	7	0	0	0	0	0	0	0	0	0
4040 @ Bed4	7	1.33	7	7	0	0	0	0	0	0	0	0	0

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CF1R-PRF-01
Page 6 of 8

OPAQUE SURFACE CONSTRUCTIONS						
01	02	03	04	05	06	07
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-factor	Assembly Layers
Attic Roof/Whole House	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.400	Cavity / Frame: No Insul / 2x4 Top Chord Roof Deck: Wood Slab/Sheathing/Decking Tile Gap: present Roofing: 10 P/SF (roofTie)
R-15 + 1 EPS	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 15	0.063	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Sheathing / Insulation: R-4.2 Sheathing Exterior Finish: 3 Coat Stucco
R-15 Wall	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 15	0.086	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Other Side Finish: Gypsum Board
R-38 Roof + RB	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R 38	0.025	Inside Finish: Gypsum Board Cavity / Frame: R-38 / 2x4 Over Ceiling Joists: R-20.9 Insul
SLAB FLOORS						
01	02	03	04	05	06	07
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value & Depth	Carpeted Fraction	Heated
Exposed	Whole House	943	90.83	None	0	No
Covered	Whole House	632	60	None	0	No
BUILDING ENVELOPE - HERS VERIFICATION						
01	02	03	04			
Quality Insulation Installation (OII)	Quality Installation of Spray Foam Insulation	Building Envelope Air Leakage	CFM60			
Required	Not Required	Not Required	n/a			
WATER HEATING SYSTEMS						
01	02	03	04	05	06	
Name	System Type	Distribution Type	Water Heater	Number of Heaters	Solar Fraction (%)	
DHW Sys 1	DHW	Standard	DHW Heater 1 (1)	1	0%	

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CF1R-PRF-01
Page 6 of 8

WATER HEATERS											
01	02	03	04	05	06	07	08	09	10	11	12
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Energy Efficiency	Input Rating / Pilot / Thermal Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model / Other	Tank Location or Ambient Condition
DHW Heater 1	Gas	Small Instantaneous	1	0	0.82 EF	<= 200 kBtu/hr	R-0/R-0	0	n/a	n/a	n/a
SPACE CONDITIONING SYSTEMS											
01	02		03		04		05		06		
SC Sys Name	System Type		Heating Unit Name		Cooling Unit Name		Fan Name		Distribution Name		
HVAC System 1	Other Heating and Cooling System		Heating Component 1		Cooling Component 1		HVAC Fan 1		Air Distribution System 1		
HVAC - HEATING UNIT TYPES											
01		02				03		04			
Name		System Type				Number of Units		Efficiency			
Heating Component 1		Crtn/Furnace				1		80 AFUE			
HVAC - COOLING UNIT TYPES											
01	02	03	04	05	06	07	08				
Name	System Type	Number of Units		EER	SEER	Zonality Controlled	Compressor Type	HERS Verification			
Cooling Component 1	Spl/Air/Cond	1		12.3	14.5	Not Zonal	Single Speed	Cooling Component 1-hers-cool			
HVAC COOLING - HERS VERIFICATION											
01	02	03			04	05	06				
Name	Verified Airflow	Airflow Target			Verified EER	Verified SEER	Verified Refrigerant Charge				
Cooling Component 1-hers-cool	Required	350			Required	Required	Required				
HVAC - DISTRIBUTION SYSTEMS											
01	02	03		04		05		06		07	
Name	Type	Duct Leakage		Insulation R-value		Duct Location		Bypass Duct		HERS Verification	
Air Distribution System 1	Duct/Attic	Specified/Low Leakage Target		8		Attic		None		Air Distribution System 1-hers-dist	

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CF1R-PRF-01
Page 1 of 8

GENERAL INFORMATION											
01	Project Name		Smart Home of The Desert, Inc.								
02	Calculation Description		Title 24 Analysis								
03	Project Location		132...Cuyamaca Drive [Lot No. 271] - A.P.N.: 641-182-018								
04	City		Desert Hot Springs		05	Standards Version		Compliance 2017			
06	Zip Code		92240		07	Compliance Manager Version		BSM/CompMgr 2016.3.1 (1149)			
08	Climate Zone		CZ15		09	Software Version		EnergyPro 7.2			
10	Building Type		Single Family		11	Front Orientation (deg/ Cardinal)		0			
12	Project Scope		Newly Constructed		13	Number of Dwelling Units		1			
14	Total Cond. Floor Area (ft²)		1575		16	Number of Zones		1			
16	Slab Area (ft²)		1575		17	Number of Stories		1			
18	Addition Cond. Floor Area (ft²)		n/a		19	Natural Gas Available		Yes			
20	Addition Slab Area (ft²)		n/a		21	Glazing Percentage (%)		14.3%			
COMPLIANCE RESULTS											
01	Building Complies with Computer Performance										
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.										
03	This building incorporates one or more Special Features shown below										
ENERGY USE SUMMARY											
04	05	06	07	08							
Energy Use (kBTD/ft²-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement							
Space Heating	0.26	0.57	-0.31	-119.2%							
Space Cooling	88.00	87.50	0.50	0.6%							
IAQ Ventilation	1.55	1.55	0.00	0.0%							
Water Heating	8.67	8.67	0.00	0.0%							
Photovoltaic Offset	---	0.00	0.00	---							
Compliance Energy Total	98.48	98.29	0.19	0.2%							

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Page 2 of 8

ENERGY DESIGN RATING			
<p>Energy Design Rating (EDR) is an alternate way to express the energy performance of a building using a scoring system where 100 represents the energy performance of the Residential Energy Services (RESNET) reference home characterization of the 2006 International Energy Conservation Code (IECC) with California modeling assumptions. A score of zero represents the energy performance of a building that combines high levels of energy efficiency with renewable generation to "zero out" its TDV energy. Because EDR includes consideration of components not regulated by Title 24, Part 6 (such as domestic appliances and consumer electronics), it is not used to show compliance with Part 6 but may instead be used by local jurisdictions pursuing local ordinances under Title 24, Part 11 (CALGreen).</p> <p>As a Standard Design building under the 2016 Building Energy Efficiency Standards is significantly more efficient than the baseline EDR building, the EDR of the Standard Design building is provided for information. Similarly, the EDR score of the Proposed Design is provided separately from the EDR value of installed PV so that the effects of efficiency and renewable energy can both be seen.</p>			
EDR of Standard Efficiency	EDR of Proposed Efficiency	EDR Value of Proposed PV + Battery	Final Proposed EDR
88.4	88.3	0.0	88.3
<input type="checkbox"/>	Design meets Tier 1 requirement of 15% or greater code compliance margin (CALGreen A4.203.1.2.1) and Oil verification prerequisite.		
<input type="checkbox"/>	Design meets Tier 2 requirement of 30% or greater code compliance margin (CALGreen A4.203.1.2.2) and Oil verification prerequisite.		
<input type="checkbox"/>	Design meets Zero Net Energy (ZNE) Design Designation requirement for Single Family in climate zone CZ15 (Palm Springs) (CALGreen A4.203.1.2.3) including on-site photovoltaic (PV) renewable energy generation sufficient to achieve a Final Energy Design Rating (EDR) of zero or less. The PV system must be verified.		
<p>Notes:</p> <ul style="list-style-type: none">• Excess PV Generation EDR Credit: Bypassing PV size limit may violate Net Energy Metering (NEM) rules			
<p>REQUIRED SPECIAL FEATURES</p> <p>The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis</p> <ul style="list-style-type: none">• Cool roof• Window overhangs and/or films• Exposed slab floor in conditioned zone			
<p>HERS FEATURE SUMMARY</p> <p>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 components tables below.</p> <p>Building-level Verifications:</p> <ul style="list-style-type: none">• High quality insulation installation (OII)• IAD mechanical ventilation• Cooling System Verifications:• Minimum AHR• Verified SEER• Verified SEER• Verified Refrigerant Charge• Fan Efficiency Watts/CFM• HVAC Distribution System Verifications:<ul style="list-style-type: none">• Duct Sealing• Low-leakage Air Handling Unit• Domestic Hot Water System Verifications:<ul style="list-style-type: none">• None			



<



2016 Low-Rise Residential Mandatory Measures Summary

RES

RESIDENTIAL MEASURES SUMMARY



2016 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. *Exceptions may apply.
(Revised 04/2017)

Mike Mendoza
Design Principal
Pro-ell, Stairail &
725-900 DuaneBlanc Drive
Fremont, CA 92221
Cell No. 1-1760 275-1816
E-Mail Address: m323177@aol.com

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Phone No. 1-(760) 999-0999
P.O. Box 1313
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gilberto@smarthomesotd.com

Job Address:
No. 271 Cuyamaca Dr
Desert Hot Springs, CA 92240

Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:

Title 24 Report
Mandatory Measures

Date: OCTOBER-2018

Drawn By: Mike Mendoza

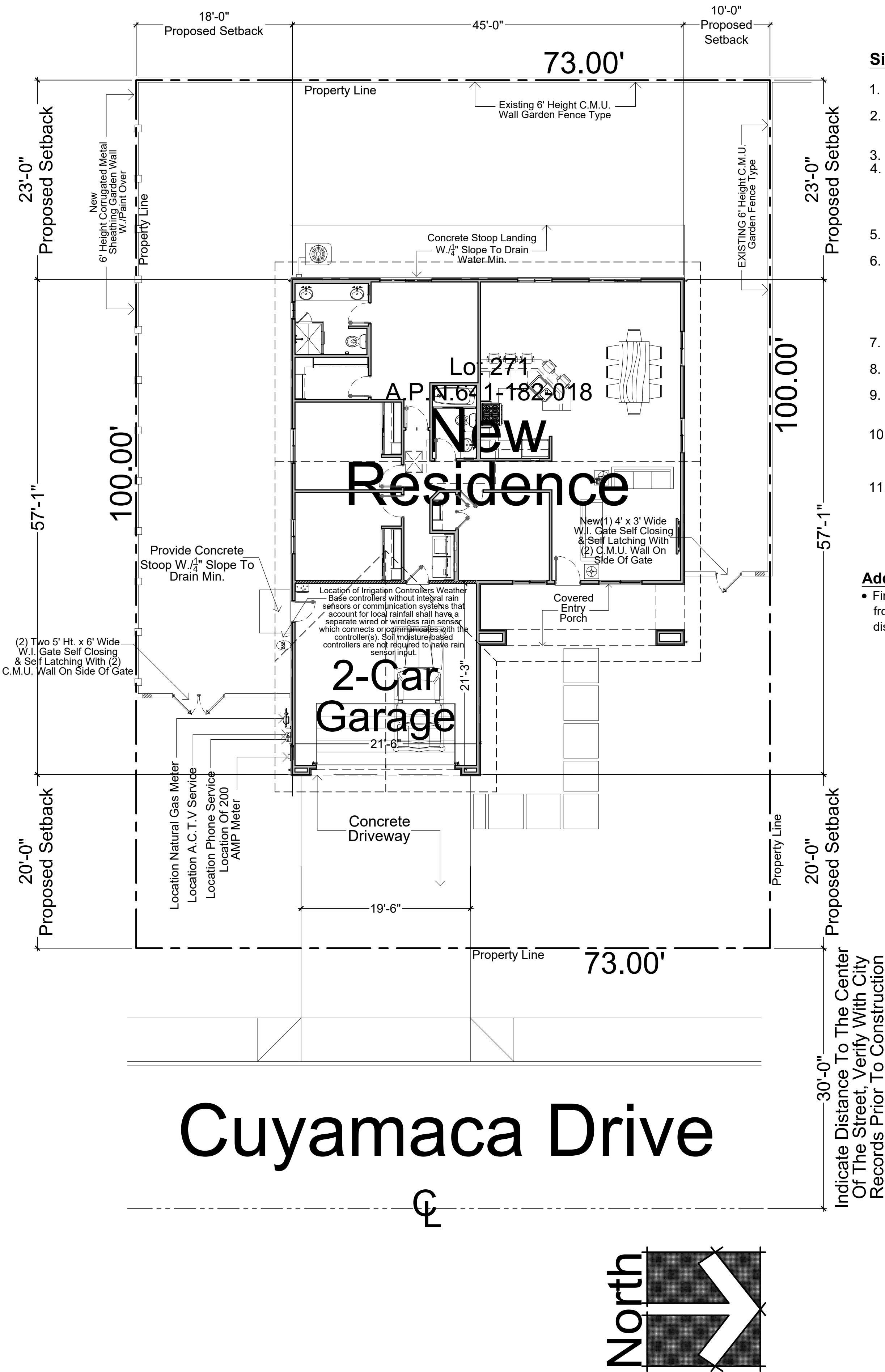
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Sheet Number:

T1.03

Scale: $1/4" = 1'-0"$

Site Plan



Site Notes:

- Landscape and irrigation must be completely installed prior to issuance of certificate of occupancy.
- Block wall required to issuance of certificate of occupancy, according to City Ordinance, Block Wall Require Separate Permit.
- Chain Link Fence shall NOT Be Permitted.
- A/C Condenser Unit must be visually and acoustically screened the method of screening must be functionally and architecturally compatible in terms of materials, color shape and size. Chain Link Shall not be used to screen A/C Unit.
- Front Yard Landscape must have 100% ground coverage (Leg Rock, Gravel and or Plant Material).
- Trees and shrubs shall can be located on public right of way trees planted near public curbs shall have limited root structure and shall be installed in such manner as to prevent physical damage to any public improvements (Sidewalks, Curbs & Gutters). a deep root system shall be used.
- 6'-0" Block Wall Fence must be completed prior to final inspection.
- 100% front ground coverage, landscaping and irrigation must be installed prior to final inspection.
- All gates shall swing outward, away from the backyard area. This will meet future pool requirements and not require gates to be change.
- Block walls not to exceed 6'-0" in Height from the lowest side.
- Tan Precision, slump-stone or stucco both sides for block wall permitted, Grey Block Wall Prohibited.
- Outdoor Lightning to comply with City Nite Sky Ordinance.

Additional Note:

- Finish Grade Around the structure/addition shall slope away from the foundation a minimum of 5 % for a minimum distance of 10' (Feet). R401.3 CRC

Tabulation Area:

Based on Square Feet and Percentage

Site Area:	Square Feet	=	100.00	%
7,338.0				
Building Area:	Garage Area:	Covered Entry:		
1,575.0 Sq. Ft.	458.0 Sq. Ft.	165.0 Sq. Ft.	=	29.95
Total Building Area:		2,198.0 Sq. Ft.		%
Driveways and Parking Areas:			=	5.45
400.0 Sq. Ft.				%
Open Space Area (Landscaping & Recreation)			=	64.59
4,740.0 Sq. Ft.				%

Unauthorized Changes & Uses:

The designer preparing these plans will not be responsible for, or liable for, unauthorized changes to uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

Residential Mandatory Measures:

- Storm water drainage and retention during construction: Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.
 - Retention basins of sufficient size shall be utilized to retain storm water on the site.
 - Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.
 - Compliance with a lawfully enacted storm water management ordinance.

Projections:

Cornices, eave overhangs, exterior balconies and similar projections extending beyond the floor area shall conform to the requirements of this section and Section 1406 Exterior egress balconies and exterior exit stairways shall also comply with Section 1014.5 and 1023.1 respectively. Projections shall not extend beyond the distance determined by the following two methods, whichever result in the lesser projection:

- A point one-third the distance to the lot line from an assumed vertical plane located where protected openings are required in accordance with Section 704.8.
- More than 12 inches (305 mm.) into areas where openings are prohibited. C.B.C. Chapter 7 Section 704.2.

Utility Companies:

Power:	Southern California Edison 73-540 Highway 111 Palm Desert, CA 92260 Telephone 1-(800) 655-4555
Water:	Mission Springs, Water District 66575 Second Street Desert Hot Springs, CA 92240 Telephone: 1-(760) 329-5169 Fax Number: 1-(760) 329-2482
Gas Company	Southern California Gas Company Telephone: 1-(800) 427-2200
Cable T.V.	Warner-Cable Road Runner 81-557 Dr. Carreon Boulevard # C-7 Indio, CA 92201 Telephone: 1-(866) 340-0183 Telephoen: 1-(760) 340-2225
School District	Palm Springs School Unified District 980 East Tahquitz Canyon Way Palm Springs, CA 92276 Telephone: 1-(760) 416-6000
Permit Assistance Center	City Hall Building & Safety Dpto. 65-950 Pierson Boulevard Desert Hot Springs, CA 92240 Phone Number: 1-(760) 329-6411



Storm Water And Retention:

Projects disturbing less than one acre shall comply with Section 4.106.2 of The California Green Building Standards Code (CIBC).

Use STRAW WATTLES

Straw Wattles or Fiber Rolls are very similar to Straw Bales; however, they come in rolls and are design to be placed along the contours of a slope to prevent sediment discharge. Straw Wattles allow water to seep through the material while preventing the transfer of sediment. Proper installation of Straw Wattles requires the Wattles to be entrenched into the ground at least 2" - 3" deep and stacked roughly every six feet (6') Minimum Stakin requirements of Straw Wattles increases on a slope to roughly one stake every Four Feet (4') Additionally, the proper Layout of Straw Wattles requires the ends to be looped up in a 'J' fashion on each end to prevent the water plus suspended sediment from just flowing around the ends, thus defeating their intended purpose.

Name & Address of Owner:

SMART HOMES OF THE DESERT
Mr. GILBERTO FAVELA
15060 TARBUTTON ROAD
DESERT HOT SPRINGS, CA 92240
Phone Number: 1-(760) 999-0999
E-mail Address: gilberto@smarthomesotd.com

Name & Address Of Applicant:

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DESERT HOT SPRINGS, CA 92240
Phone Number: 1-(760) 999-0999
E-mail Address: gilberto@smarthomesotd.com

A. P. N. Number = 641-182-018

Job Address:

Lot No. 271 CUYAMAMACA DRIVE
DESERT HOT SPRINGS, CA 92240

Legal Description:

Lot 271 POR, S.W. 31 T. 2 S. R. 5 E.
CITY OF DESERT HOT SPRINGS M.B. 27/46-48 DESERT SPRINGS
STATES Map Book 641 Page 18 Riverside County Records, Riverside,
California.

Title Exhibit:	Single Family Residence
Conditioning Living Area:	1,575.0 Sq. Ft.
Two Car Garage Area:	458.0 Sq. Ft.
Covered Entry Area:	165.0 Sq. Ft.
Lot Area:	7,338.0 Sq. Ft. 0.168 Acres
Zoning Classification:	R-L
Sewage:	On City Sewer
Thomas Bros. Map	Page 696 Grid H5
Page / Grid	

Code Requirements:

This Project Comply with:

2016	California Building Code
2016	California Electrical Code
2016	California Mechanical Code
2016	California Plumbing Code
2016	California Energy Code
2016	California Fire Code
2016	California Residential Code
2016	Green Building Code

All other State and Local Codes that are applicable.

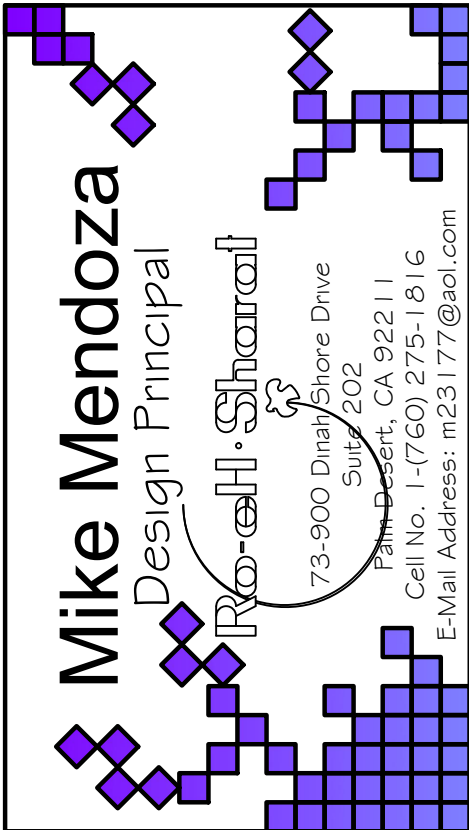
Occupancy: R-3-U/L
Type of Construction V-B
Sprinklers Required YES

If Finish Floor of dwelling is not above upstream manhole provide Backwater Valve per C.P.C. 710. Fixtures above such elevation shall not discharge through the backwater valve

Note:

- Foundation Elevation Must Be 18" (Inches) Above Top Of Curb Or Crown Of Street Unless Engineered Design Provides Equivalent Protection. (1805 CBC Ord. amendment)
- Minimum 50 % Front Yard Landscaping
- Landscape To City Standards
- All Existing Block Walls to be of Sound Construction and 6' high from Proposed Site Side.

Curb and Gutter are Existing
Curb Cut For Driveway
Approach & City Side Walk
Will Be Under A Separate
Permit.



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Sheet Name:

Site Plan
& General Notes

Date: OCTOBER-2018

Drawn By: Mike Mendoza

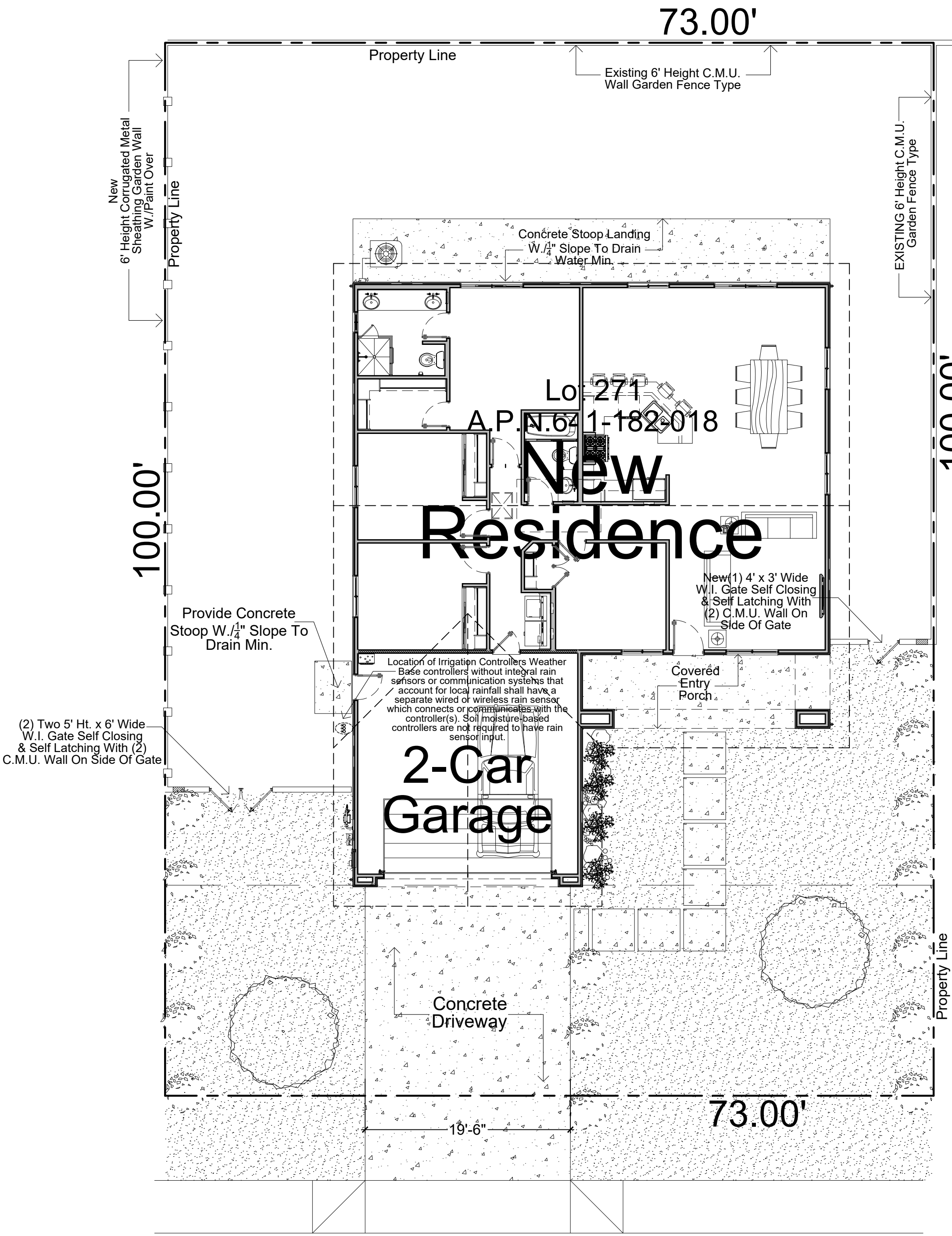
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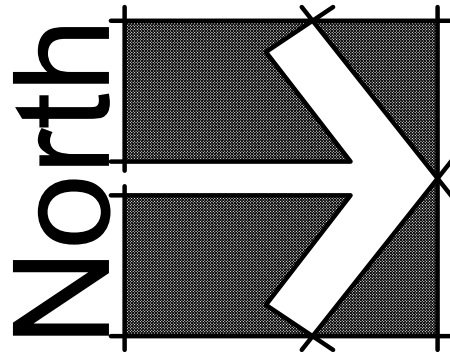
SP.01

Scale: 1/8" = 1'-0"

Conceptual Landscape Plan



Cuyamaca Drive



Site Notes:

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- 10. Block walls not to exceed 6'-0" in Height from the lowest side. Tan Precision, slump-stone or stucco both sides for block wall permitted, Grey Block Wall Prohibited.
- 11. Outdoor Lighting to comply with City Nite Sky Ordinance.



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Lot Area:	7,338.0 Sq. Ft. 0.168 Acres
Zoning Classification:	R-L
Sewage:	On City Sewer
Thomas Bros. Map Page / Grid	Page 696 Grid H5

Plant Legend

Symbol	Qty.	Name	Water Usage	Size
	2	Olea Europea Olive Tree (Fruitless)	Medium	24" Box

Symbol	Qty.	Name	Water Usage	Size
	15	Xylosma Congestum 'Compacta' Compact Shiny Xilosma	M	5 Gallon
	4	Wheeler's Dwarf Pittosporaceae (Pittosporums)	M	5 Gallon

Symbol	Qty.	Name	Comments
	6	Gold Gravel 3/4" - 1-1/2" To Be Selected Boulders "Cresta" 2' to 3' Dia.	2" Deep In All Planters Bury 1/4 beneath finish Grade

Section 4.304 - OUTDOOR WATER USE

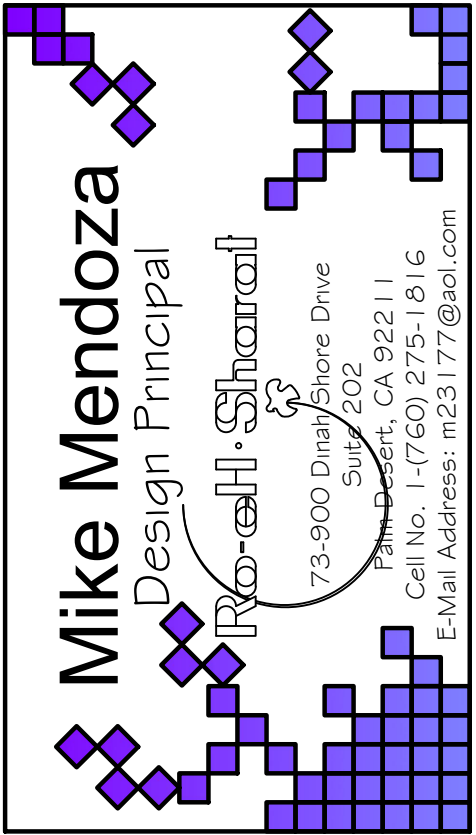
Division 4.3 -- WATER EFFICIENCY AND CONSERVATION (Outdoor Water Use)
4.304.1 Irrigation Controllers
Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:
1. Controllers shall be weather -- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather changes.
2. Weather-based controllers without integral rain sensors or communication systems that account for rainfall shall have a separate wired or wireless rain sensor that
Note:
More information regarding controller function and specifications is available from the Irrigation Association at <http://www.irrigation.org/SWAT/industry/ia-tested.asp>.

Solar Panels

(Deferral Submittal)
Under Separate Permit

Any Proposed Fencing Shall Be Under Separate
Permit and Review.

Exterior color finishes shall be a neutral pallet &
complementary to the surrounding areas.



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gilberto@smarthomesold.com

Job Address:

Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:

Conceptual
Landscape Plan
& General Notes

Date: OCTOBER-2018

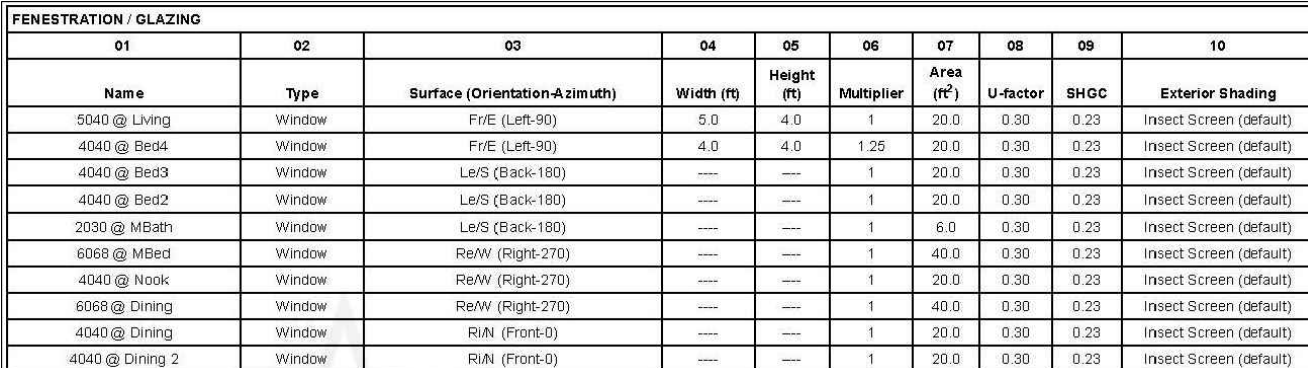
Drawn By: Mike Mendoza

Sign By:

Sheet Number:

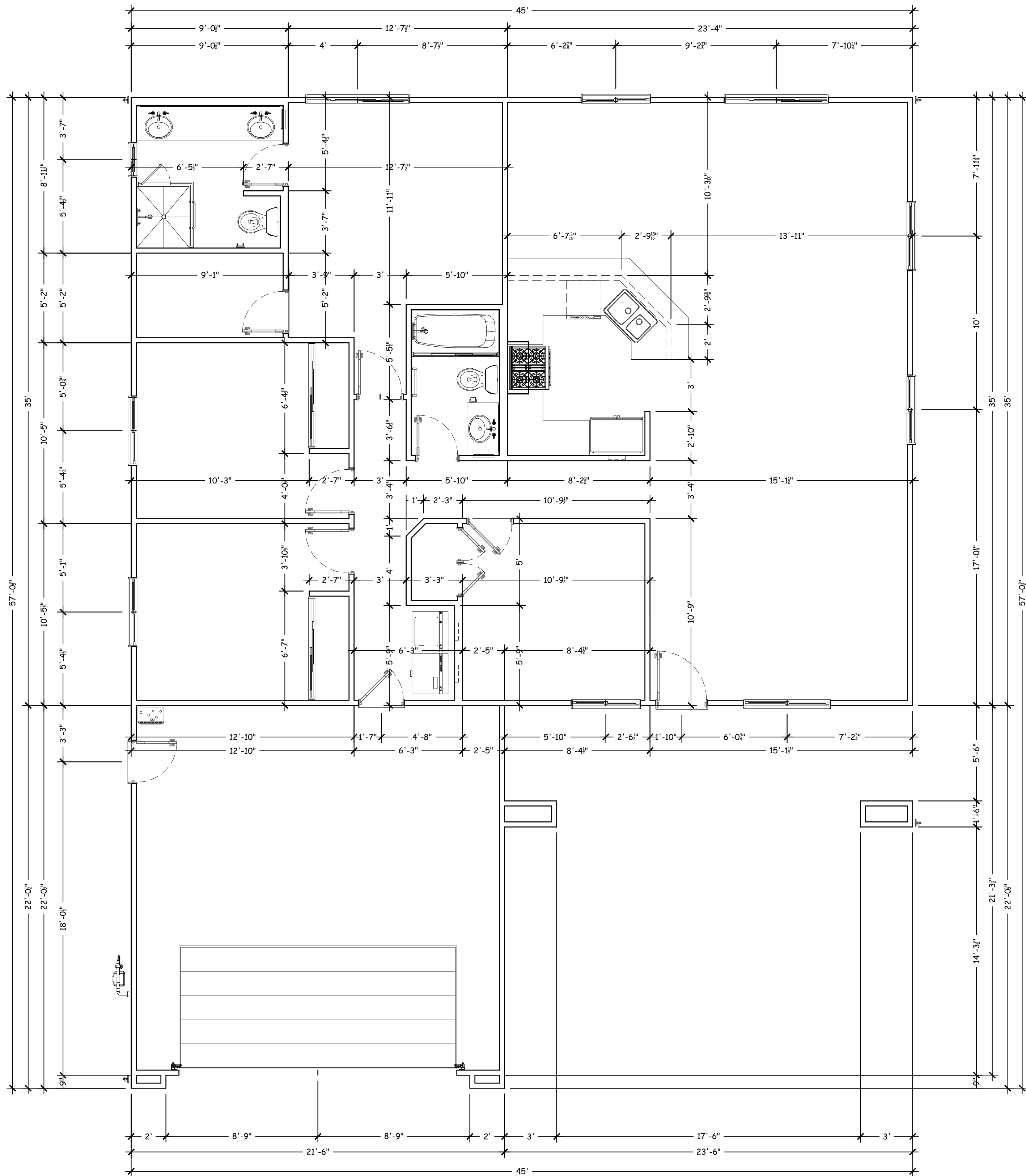
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Scale: 1/8" = 1'-0"



DOOR SCHEDULE - MATERIAL ABBREVIATIONS	
SCW = SOLID CORE WOOD	IHM = INSULATED HOLLOW METAL
ACW = ALUMINUM CLAD WOOD	SGL = SAFETY GLASS DOOR-SHOWER ENCLOSURE-BY MANUFACTURER
ALU = ALUMINUM	OWI = ORNAMENTAL WROUGHT IRON
DOOR SCHEDULE - GENERAL NOTES	HCW = HOLLOW CORE WOOD DOOR
1) COORDINATE DOOR SWING WITH FLOOR PLAN-NOTED 2) COORDINATE ACTIVE DOOR OF MULTIPLE DOOR UNITS W/ A2.2 FLOOR PLAN-NOTED	
Hardware: M-TEK or Approved Equal Brush Nickel Finish. Typical	

Scale: $1/4" = 1'-0"$



Dimension Floor Plan

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

Mike Mendoza

Design Principal

Desert Hot Springs, CA 92240


73-900 Dunes/Fore Drive

Phone: 1-760-275-1816

Cell No. 1-760-275-1816

E-Mail Address: m23177@aol.com

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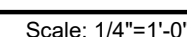
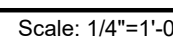
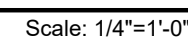
Dimension Floor Plan

Date: OCTOBER-2018
Drawn By: Mike Mendoza
Sign By:

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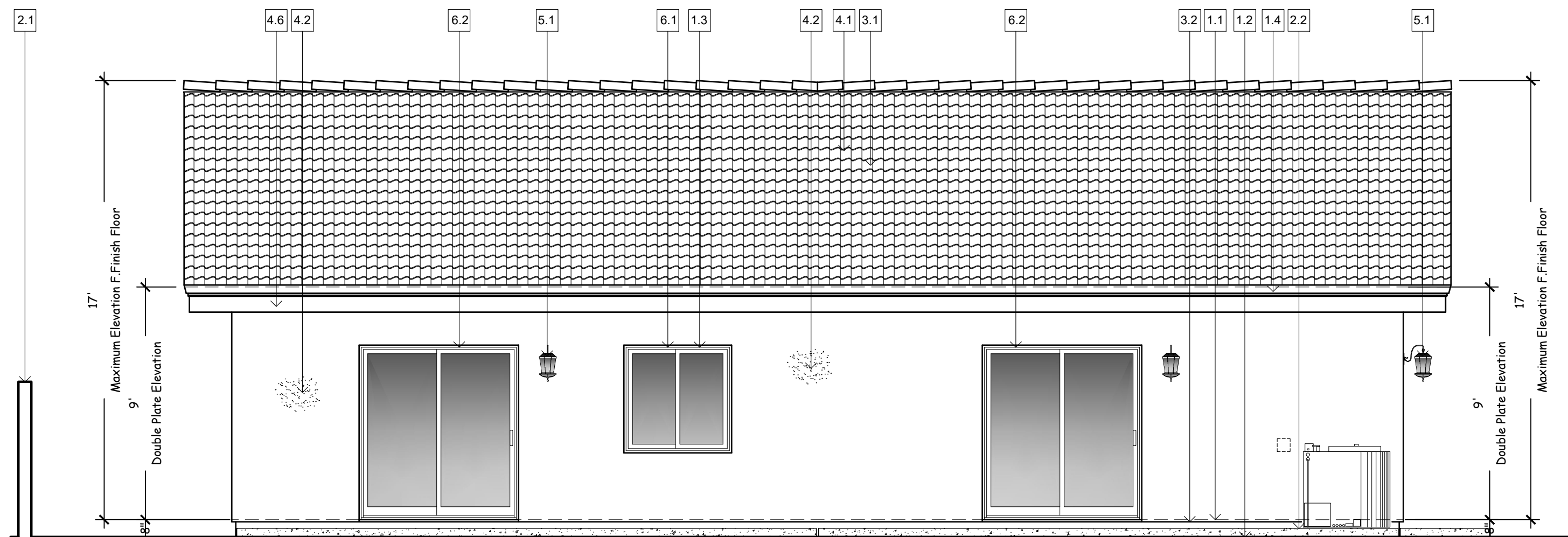
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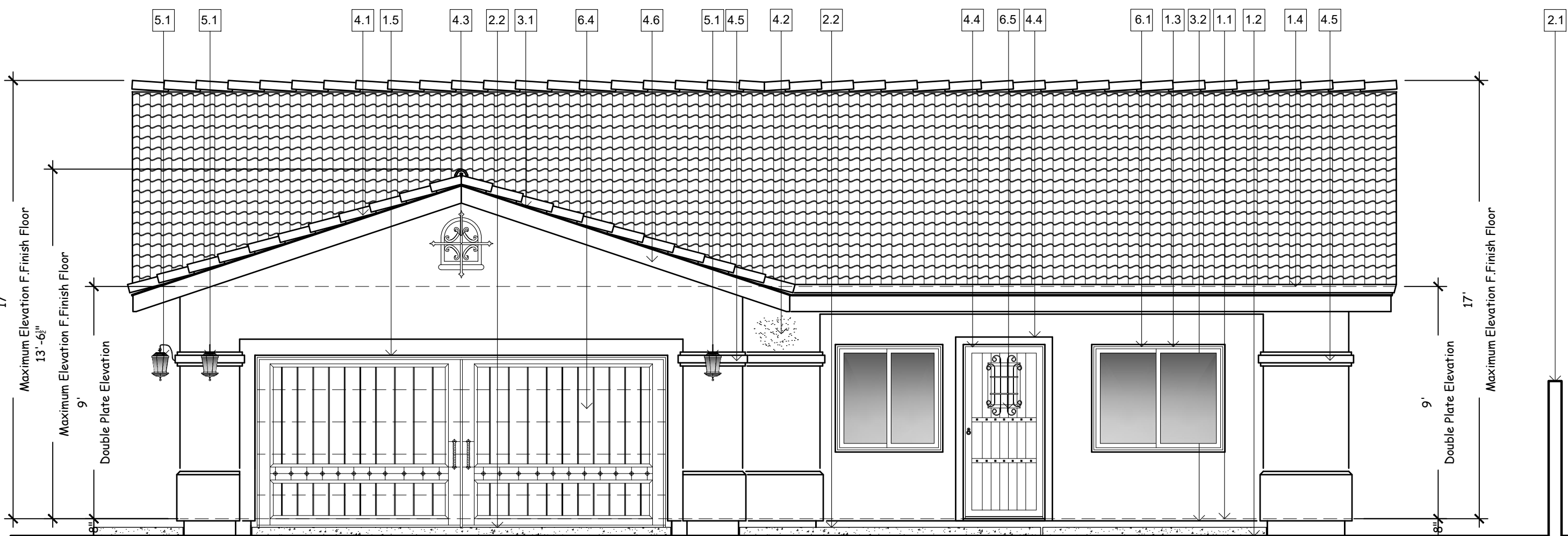
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Scale: $1/4" = 1'-0"$



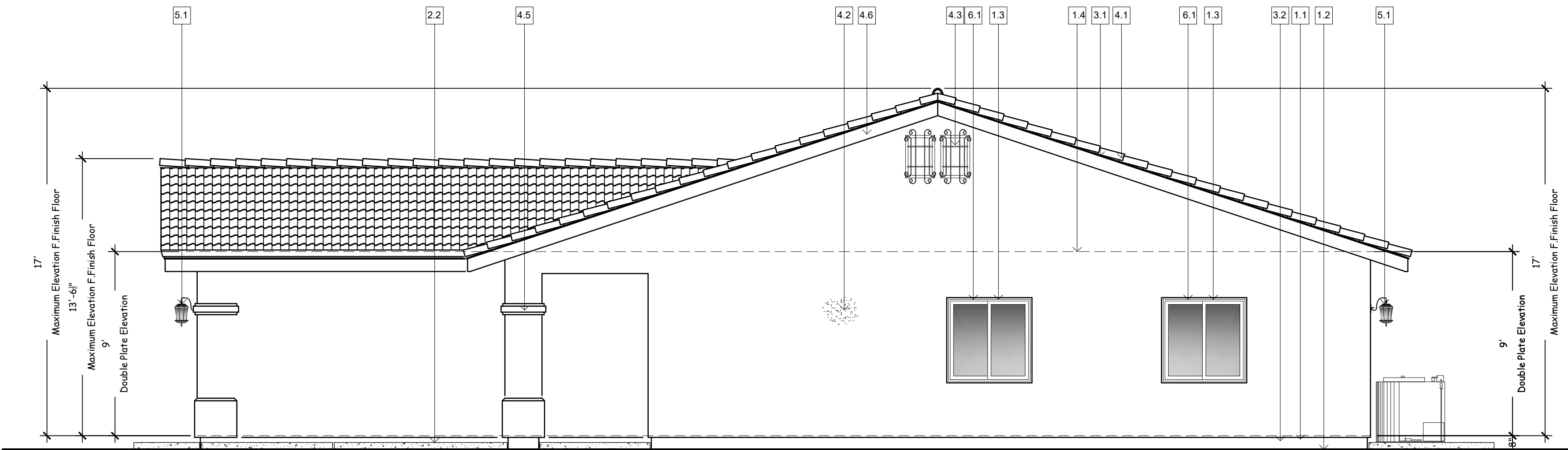
Rear Side Elevation

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



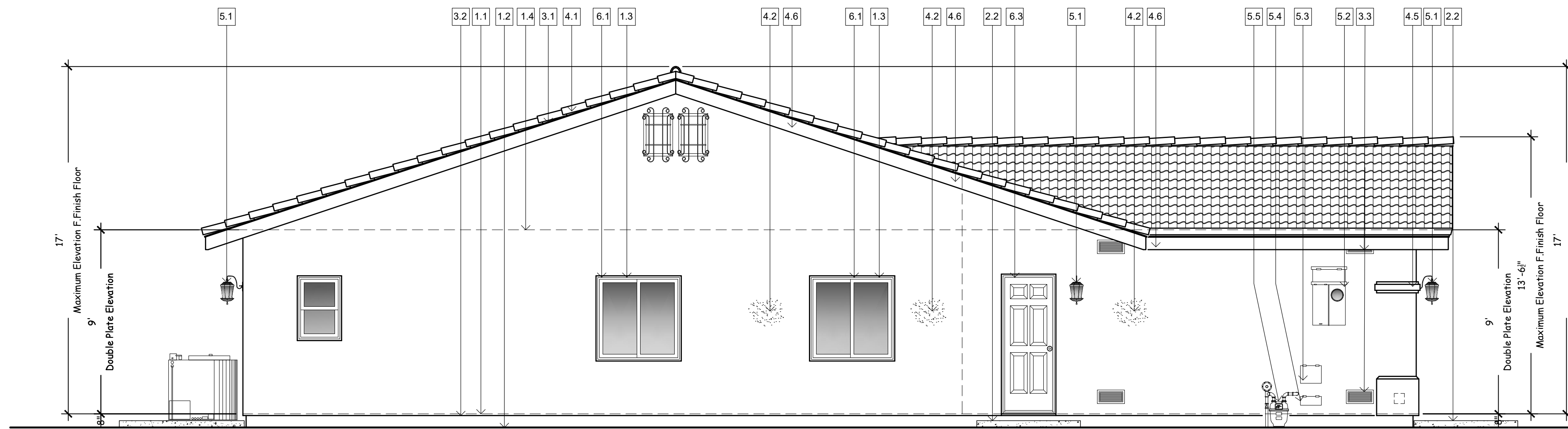
Front Side Elevation

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



Left Side Elevation

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



Right Side Elevation

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

Exterior Material Legend

Tile Roof Material

Concrete Roof Tile shall be Eagle Class 'A' Concrete Roofs I.C.C. Report # ESR-1900 Over (2) Layers Type 30 Underlayment, Install Per Manufacturer's specifications Weight = 10 PSF Roof Pitch: See Plan Tile Roof Assembly shall be Class 'A' Minimum, C.B.C. 1506 & 1507 Note: Minimum Tile nailing shall comply with the following: 1. 11 GA. Corrosion-Resistant 3/4" onto roof sheathing 2. The heads of all tiles shall be nailed 3. the noses of all course tiles shall be fastened with approved clips 4. All rake tiles shall be nailed with (2) nails 5. The nose of all Ridge, Hip, and Rake tiles shall be set in a bead of approved roofer's mastic.

Garage Doors

Metal Type (5) Five Break Roof Type W/ No Insulation

Window & Doors

Vinyl Type Provide Tempered Glass In Areas Of Human Impact Frame Color: Black / Matte Black

Bronze Tone Finish

Bronze Tone Finish Verify Selection Type and Model Prior To Construction.

5 - Utilities

- 5.1 Light Fixture - As Selected by Owner.
- 5.2 200 AMP's Panel
- 5.3 Telephone Service Box
- 5.4 C.A.T.V. Service Box
- 5.5 Gas Meter Location Verify W/Utility Company

6 - Doors and Windows

- 6.1 Windows - Refer To Window Schedule.
- 6.2 Slider Glass Door Type Tempered Glass Required, Verify Selection - Refer To Door Schedule.
- 6.3 Doors - Refer to Door Schedule.
- 6.4 Metal Type Sectional Overhead Garage Door - Refer To Door Schedule.
- 6.5 Custom Entry Door - Refer To Door Schedule.

1 - Spatial

- 1.1 Top Of Slab Line / Top Of Garage Curb
- 1.2 Finish Grade Line
- 1.3 Align Top of The Window with Top Of Door
- 1.4 Top of Plate
- 1.5 Soffit / Ceiling Line

2 - Site

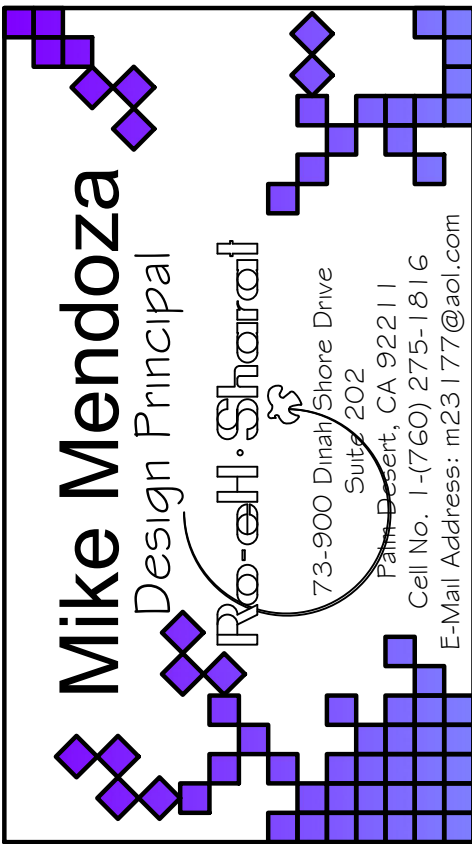
- 2.1 Site Walls or Steps - Refer To Civil and Landscape Drawings
- 2.2 Site Steps - Refer to Landscape Drawings

3 - Metals

- 3.1 Galvanized Sheet Metal Flashing
- 3.2 Continuous Weep Screed.
- 3.3 Provide (2) minimum G.I. Screen Vents 14" wide x 6" Ht. (2) Two @ 6" Above Finish Floor Elevation (2) Two @ 12" Below Ceiling Ht. Elevation.

4 - Exterior Finsh

- 4.1 Concrete Roof Tile - See Roof Plan for Material and Colors.
- 4.2 (1) One Coat Stucco System, must include one layer of water resistive barrier, having a flame-spread index of 25 or less and smoke-developed index of 450 or less. The water resistive barrier must be installed over the sheathing in accordance with IBC Section 1404.2 EPS insulation board with a nominal 1.5 pcf (24 kg/m) density must be installed at a 1-inch (25 mm) thickness horizontally in running bond to the sheathing. The lath insulation board and water resistive barrier must be positively fastened to the studs framing. The Stucco System must be applied at a 3/8 inch (9.5 mm) minimum thickness. ICC-ES Evaluation Report ESR-1194
- 4.3 G.I. Vents 14" x 18" Verify Profile.
- 4.4 Provide (1) One 2x on top Trim Band With Stucco Over Typ.
- 4.5 Provide (2) Two 2x on top Trim Band With Stucco Over Typ.
- 4.6 Indicate Location Of Eave Detail With Stain & Paint Over Typical. Verify Color Selection.



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Exterior Elevations & General Notes

Date: OCTOBER-2018

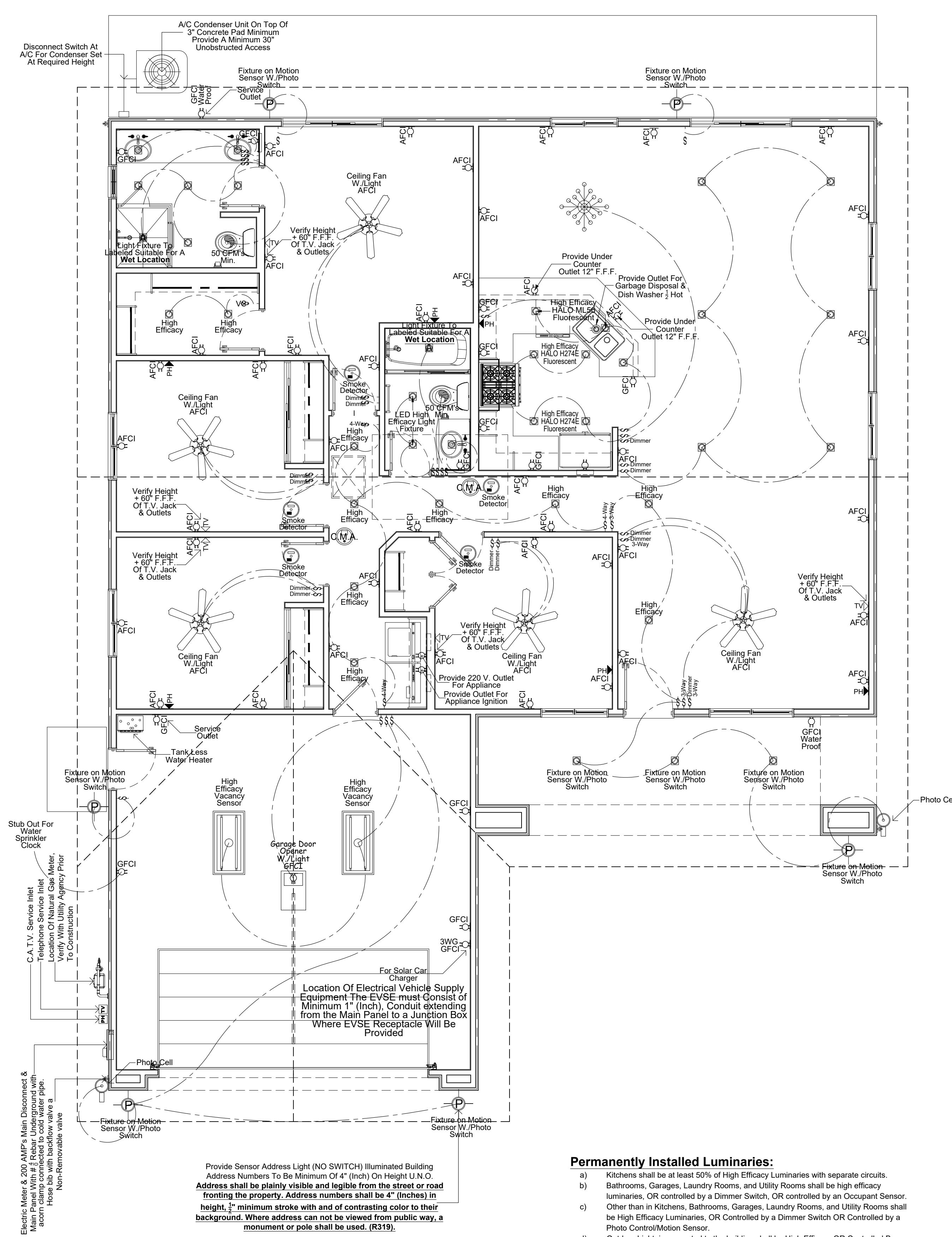
Drawn By: Mike Mendoza

Sign By:

Sheet Number:

A1.04

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



Carbon Monoxide Alarms:
To be UL 2034/2075 Rated Carbon Monoxide Alarms
a) In alterations, repairs and additions of existing dwellings exceeding \$ 1000 carbon monoxide alarms are required in the specific permitted dwellings or sleeping units that have attached garages of fuel burning appliances. The carbon monoxide alarms may be battery operated and not interconnected. [CRC R.314.3.1]
b) Carbon monoxide alarms shall be provided in all new construction located in each sleeping room containing a fuel burning appliance and in dwelling units that have an attached garage. [CRC R315]
c) In new buildings, carbon monoxide alarms shall be interconnected and hardwire. [CRC R315.1.1 & R315.2]

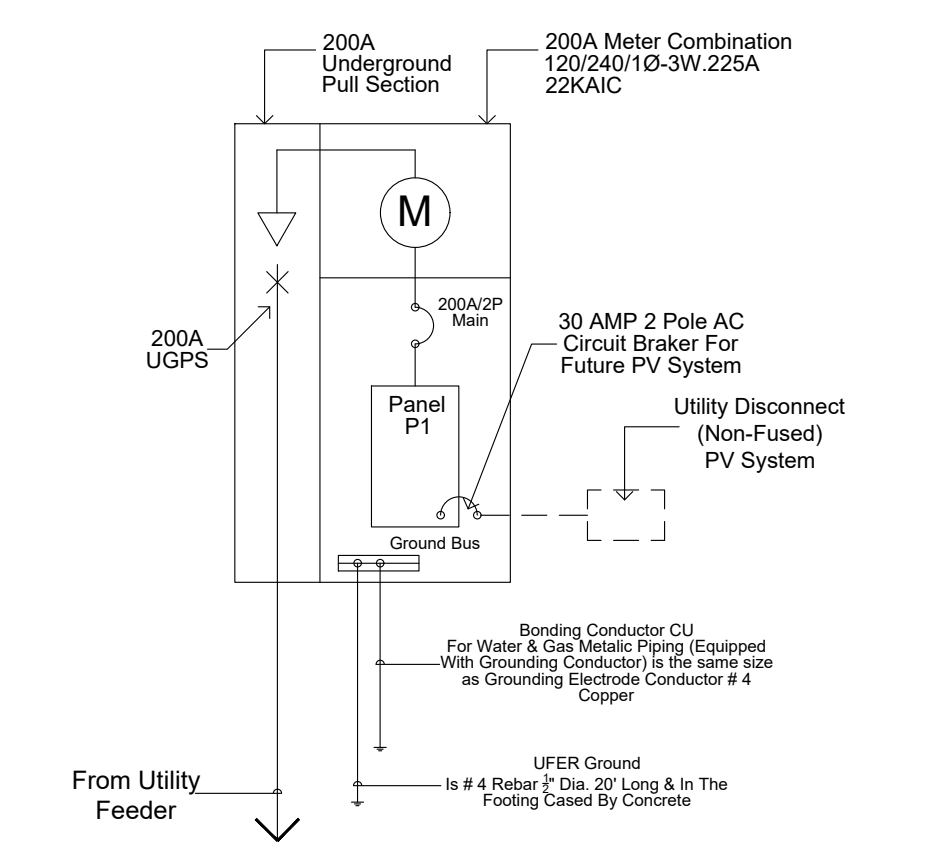
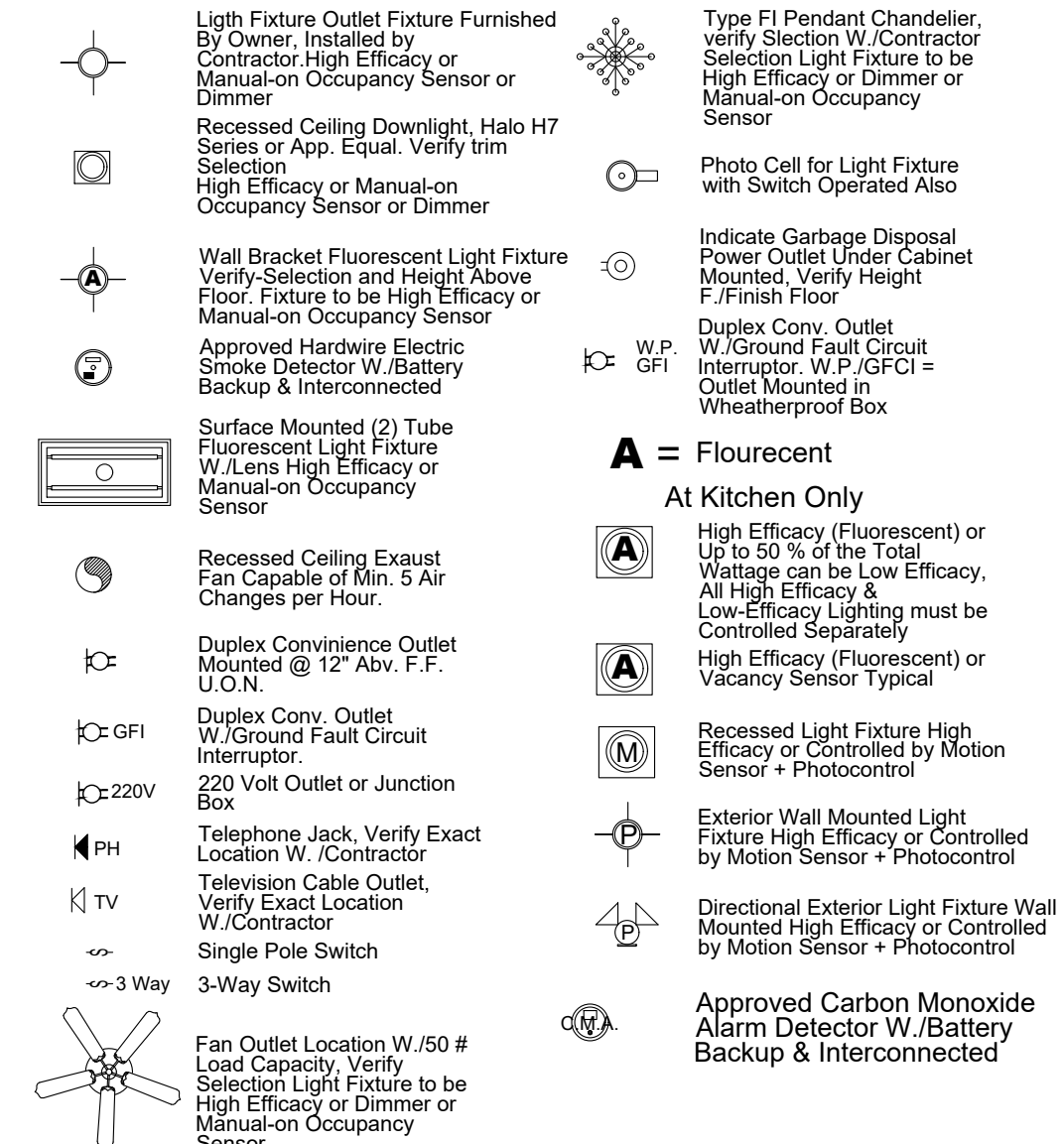
Smoke Alarms:
To be UL 217 Rated Smoke Alarms
a) In alterations, repairs and additions smoke alarms are required in each sleeping room, outside each separate area in the immediate vicinity of the bedrooms, and at each additional floor or basement level. Smoke alarms may be battery operated and not interconnected. [CRC R314.3.1]
b) Smoke alarms shall be provided in all new construction located in each sleeping room, outside each separate sleeping area in the immediate vicinity of the bedrooms, and at each additional floor or basement level. [CRC R314.3]
c) In new buildings, smoke alarms shall be interconnected and hardwire. [CRC R314.4 & R314.5]
d) Smoke Alarm systems and components shall be California State Fire Marshall Listed and approved. R314.1 CRC.

- Permanently Installed Luminaries:**
- a) Kitchens shall be at least 50% of High Efficacy Luminaries with separate circuits.
 - b) Bathrooms, Garages, Laundry Rooms, and Utility Rooms shall be high efficacy luminaries, OR controlled by a Dimmer Switch, OR controlled by an Occupant Sensor.
 - c) Other than in Kitchens, Bathrooms, Garages, Laundry Rooms, and Utility Rooms shall be High Efficacy Luminaries, OR Controlled by a Dimmer Switch OR Controlled by a Photo Control/Motion Sensor.
 - d) Outdoor Lighting mounted to the building shall be High Efficacy OR Controlled by an Occupant Sensor.
 - e) Common areas of multifamily buildings shall be either High Efficacy OR Controlled by an Occupant Sensor.

Kitchen Wattage Calculation				
Quantity Of Fixtures	Watts	Lumens Per Watt	Total Of Lumens	Efficacy
04-HALO 274E	13	50	2,600.0	200.00 lpW
03-HALO ML56	10.2	78	2,387.0	234.00 lpW

Pin Based fluorescent system. Virtually all pin-based fluorescent systems will qualify as HIGH-Efficacy for the residential standards.

ELECTRICAL SYMBOLS



Single Line Diagram
Backfeed Type Breaker Reserved
For Future Solar Panel
Service Load Calculations

Dwelling Information:		
Floor Area:	1,575.0 Sq. Ft.	
Water Heater Type:	Gas	
Heater Type:	Gas	
Dryer:	Gas	
Oven:	Electricity	
Range:	Gas	
General Load:		
General Lighting (Floor Area 1,575.0 x 3VA/Sq.Ft.):	4725 VA	
Small Appliances (2-20ACK):	3000 VA	
Laundry (1-20ACKT By CEC 201.11)	1500 VA	
Bathroom (1-20ACKT By CEC 201.11)	0 VA	
Dishwasher	1200 VA	
Microwave	1500 VA	
Garbage Disposal	1587 VA	
Bathroom Fans	1000 VA	
Garage Door Opener	1200 VA	
Dryer	0 VA	
Oven	8000 VA	
Refrigerator	2000 VA	
Total general Load:		25712 VA
Total General Load:		
First 10 KVA at 100 %	10000 VA	
Remainder at 40 % (15712 VA x 0.40)	6285 VA	
Subtotal General Load:		16285 VA
Air Conditioning Calculation:		
Outdoor Condensing Unit	5405 VA	
Indoor Fan Coil Unit	984 VA	
Car Charger	7680 VA	
Total AC load:		14069 VA

Calculated Load For Service:
(16285 VA + 14069 VA = 30354 - 240V = 126.47 A (Service rating))
Provide Service Rating 200AMP 120/240 Volts Minimum Wire Size # 14 Copper THHN For Outlets & Light Fixtures, # 12 Copper or Larger for Others.

Water Heater Note:
System using gas or propane water heaters to serve individual dwelling units shall include the following components (150(N)):
A. A 120 V. Electrical receptacle that is with in 3 feet from the water heater and accessible to the water heater with no obstructions.
B. A condensate drain that is no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assistance.

Electrical Floor Plan

- ELECTRICAL:**
2016 California Electrical Code and 2016 California Residential Code
- 250.64 (D)(1), (D)(2), or (D)(3).
(1) Common Grounding Electrode Conductor and Taps.
A common grounding electrode conductor and grounding electrode conductor taps shall be installed. The common grounding electrode conductor shall be sized in accordance with 250.66, based on the sum of the circular mil area of the largest ungrounded conductor(s) of each set of conductors that supplies the disconnecting means. If the service-entrance conductors connect directly to the overhead service conductors, service drop, underground service conductors, or service lateral, the common grounding electrode conductor.
(2) Tamper-Resistant Receptacles in Dwelling Units. In all areas specified in C.E.C. 406.12(A), Dwelling Units. In all areas specified in C.E.C. 210.52, all nonlocking-type 125 volt, 15- and 20 ampere shall be listed tamper-resistant receptacles.
(3) (C) Dwelling Units.
(1) Small-Appliance Branch Circuits. In addition to the number of branch circuits required by other parts of this section, two or more 20-ampere small-appliance branch circuits shall be provided for all receptacle outlets specified by 210.52(B).
(2) Laundry Branch Circuits. In addition to the number of branch circuits required by other parts of this section, at least one additional 20-ampere branch circuit shall be provided to supply the laundry receptacle outlet(s) required by 210.52(F). This circuit shall have no other outlets.
(3) (3) Bathroom Branch Circuits. In addition to the number of branch circuits required by other parts of this section, at least one 120-volt, 20-ampere branch circuit shall be provided to supply a bathroom receptacle outlet(s). Such circuits shall have no other outlets.
Exception: Where the 20-ampere circuit supplies a single bathroom, outlets for other equipment within the same bathroom shall be permitted to be supplied in accordance with 210.12(A)(1) and (A)(2).
210.12 Arc-Fault Circuit-Interrupter Protection. Arc-fault circuit-interrupter protection shall be provided as required in 210.12(A) (B), and (C). The arc-fault circuit interrupter shall be installed in a readily accessible location.
7. (A) Dwelling Units. All 120-volt, single-phase, 15- and 20-ampere branch circuits supplying outlets or device loads in dwelling unit kitchens, dining rooms, living rooms, parlor, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, laundry areas, or similar rooms or areas shall be protected by any of the means described in 210.12(A)(1) through (6).
8. The minimum clearance between luminaries installed in clothes closets and the nearest point of closet space shall be as follows: (CEC §410.16(C))
(1). 300 mm (12 in.) for surface mounted incandescent or LED luminaries with completely enclosed light source installed on the wall above the door or on the ceiling.
(2). 150 mm (6 in.) for surface-mounted fluorescent luminaries installed on the wall above the door or on the ceiling.
(3). 1050 mm (6 in.) for recessed incandescent or LED luminaries with completely enclosed light source installed on the wall or the ceiling.
(4). 150 mm (6 in.) for recessed fluorescent luminaries installed in the wall or the ceiling.
(5). Surface-Mounted fluorescent or LED luminaries shall be permitted to be installed within the closet storage space where identified for this use.

- 410.16 Luminaries in Clothes Closets.**
(A) Luminaries Types Permitted. Only luminaries of the following types shall be permitted in a closet:
(1) Surface-mounted or recessed incandescent or LED luminaries with completely enclosed light sources
(2) Surface-mounted or recessed fluorescent luminaries
(3) Surface-mounted fluorescent or LED luminaries identified as suitable for installation within the closet storage space
(B) Luminaries Types Not Permitted. Incandescent luminaries with open or partially enclosed lamps and pendant luminaries or lamp holders shall not be permitted.
10.410.10 Luminaries in Specific Locations.
(A) Wet and Damp Locations. Luminaries installed in wet or damp locations shall be installed such that water cannot enter or accumulate in wiring compartments, lampholders, or other electrical parts. All luminaries installed in wet locations shall be marked, "Suitable for Wet Locations." All luminaries installed in damp locations shall be marked, "Suitable for Damp Locations." or "Suitable for Damp Locations."
11. C.E.C. 680.74 Bonding. Both metal piping systems and grounded metal parts in contact with the circulating water shall be bonded together using a solid copper bonding jumper, insulated, covered, or bare, not smaller than 8
12. C.R.C. R314.3 Location. Smoke alarms shall be installed in the following locations:
1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including eavelements and habitable attics and not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with spill levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.
4. Smoke alarms shall be installed not less than 3 feet (914 mm) horizontally from the door or opening of a bathroom that contains a bathtub or shower unless the would prevent placement of a smoke alarm required by Section R314.3.
13. C.R.C. R314.6 Power source. Smoke alarms shall receive their primary power from the building wiring provided that such wiring is served from a commercial source and shall be equipped with a battery backup. Smoke alarms with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over current protection.
14. C.R.C. R314.4 Interconnection. Where more than one smoke alarm is required to be installed within an individual dwelling or sleeping unit, the smoke alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.
15. CARBON MONOXIDE ALARMS
C.R.C. R315.1 General. Carbon monoxide alarms shall comply with Section R315.
16. R315.3 Location. Carbon monoxide alarms in dwelling units shall be installed and maintained in accordance with the manufacturer's published instructions in the following locations:
1. Outside of each separate sleeping area in the immediate vicinity of the bedrooms.
2. On every occupable level of a dwelling unit, including basements.
3. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom.
17. C.R.C. R315.5 Power source. Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection.
18. C.R.C. R315.6.4 Combination detectors. Combination carbon monoxide and smoke detectors shall be permitted to be installed in carbon monoxide detection systems in lieu of carbon monoxide detectors, provided that they are listed in accordance with UL 2034 and UL 2075.
19. C.R.C. R315.7 Interconnection. Where more than one carbon monoxide alarm is required to be installed within a dwelling unit or within a sleeping unit in Group R occupancies, the alarms shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.

"Solar Ready" Future Photo Voltaic Solar System
"No Solar System is considered with this submittal, but "Solar Ready" Energy Mandatory Requirement are Necessary
1. "Solar Ready" requires a Solar Zone (Area and location see Roof Plan Page A1.04)
2. A one-inch diameter electrical conduit shall be provided for installation of future Solar PV Energy System on Single Family Dwellings. The one inch diameter electrical conduit shall extend from the exterior wall location adjacent to the main electrical service panel and terminate into the attic space. At each location, the conduit shall terminate at two-gang, electric junction box. Three open spaces shall be provided at the bottom of the bus to accommodate future Solar PV Systems.
3. Solar System Contractor must Provide Plans And Design meeting 2016 Code Criteria and submit for Permit and approval to Building & Safety Department prior to commence any work.
Location Of Electrical Vehicle Supply Equipment The EVSE must Consist of Minimum 1" (Inch), Conduit extending from the Main Panel to a Junction Box Where EVSE Receptacle Will Be Provided Per Newly constructed one and two family dwellings and townhouses with attachedgarage shall comply with EV charging infrastructure requirements. [CEC 210.12 and CRC R308.8]
The Electrical Panel Shall Provide Capacity To Install 40 AMP Minimum Dedicated Branch Circuit And Space To Permit Installation Of A Branch Circuit Overcurrent Protection Device.

Mike Mendoza
Design Principal
73-900 Dinah Shore Drive
Suite 200
Desert Hot Springs, CA 92240
Cell No. 1-(760) 975-1816
E-Mail Address: m23177@aol.com

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Revisions	Date
Plan Check Revisions	00-00-2018



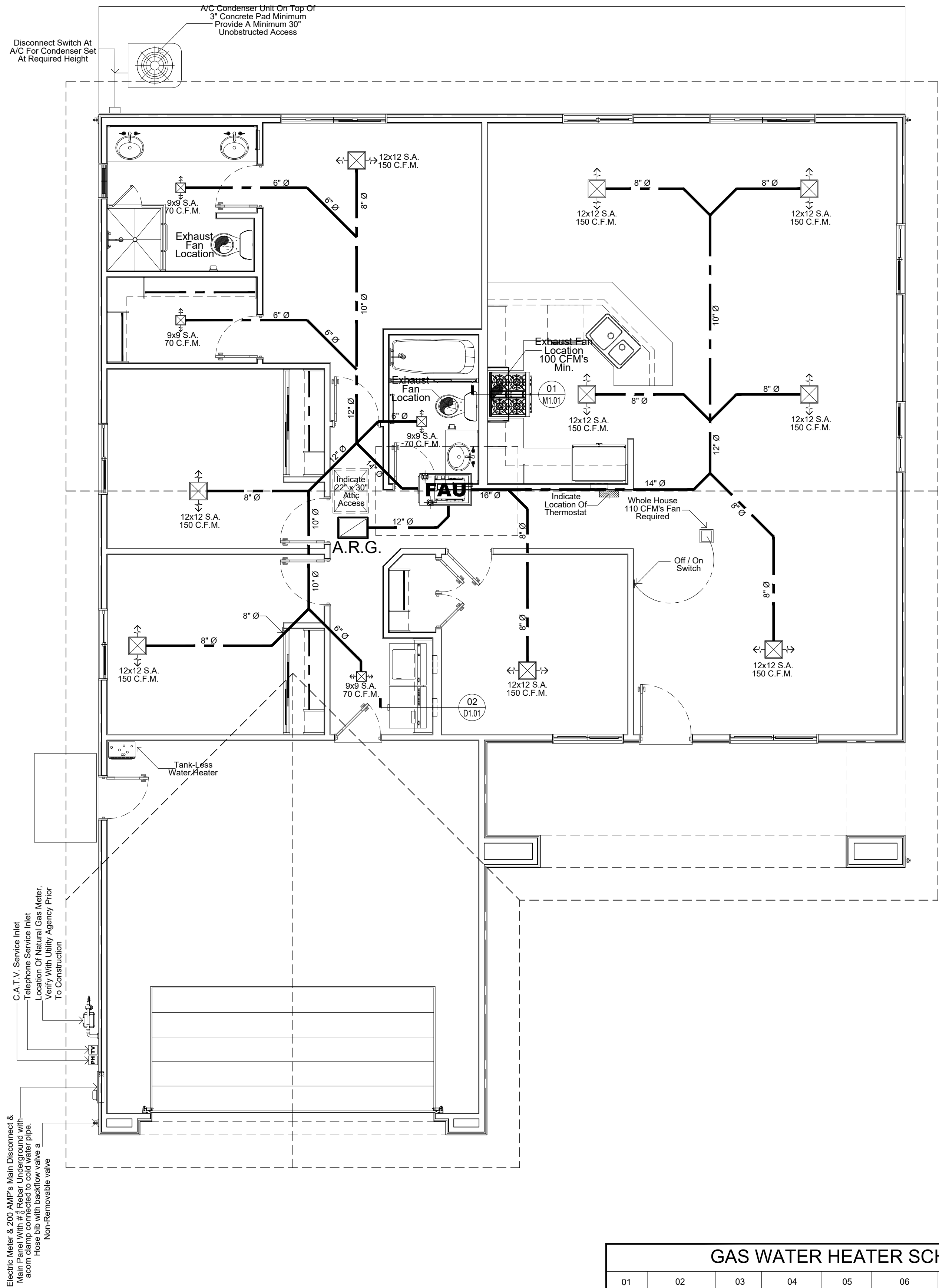
Owner Name:
SMART HOME OF THE DESERT, INC.
Phone No. 1-(760) 999-0999
P.O. Box 1313
Desert Hot Springs, CA 92240
gilberto@smarthomesold.com

Job Address:
**Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240**

Sheet Name:
Electrical Floor Plan & General Notes

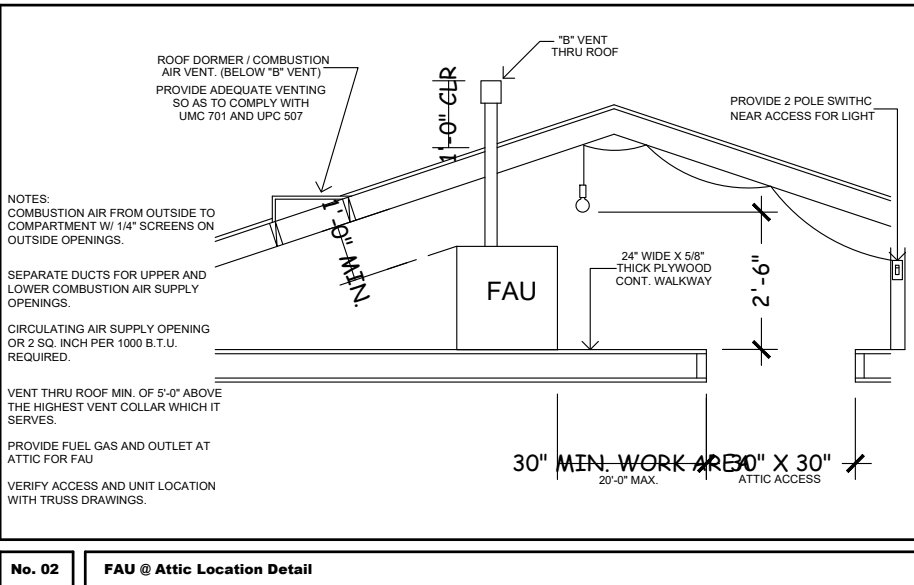
Date: OCTOBER-2018
Drawn By: Mike Mendoza
Sign By:

Sheet Number:
E1.01
Scale: 1/4" = 1'-0"



GAS WATER HEATER SCHEDULE										
01	02	03	04	05	06	07	08	09	10	11
NAME	Heater Element Type	Tank Type	Number Of Units	Tank Volume (Gall)	Energy Factor Or Efficiency	Input Rating	Tank Exterior Insulation R-Value	Standby Loss/ Recovery Eff	NEEA Heat Pump Type	Tank Location or Ambient Condition
DHW Heater 1	Natural Gas	Small Storage	1	0	0.82 EF	200,000-Btu/hr	0	0	0	n/a

HVAC COOLING Unit Types							
01	02	03	04	05	06	07	08
Name	System Type	Number Of Units	Efficiency		Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Components 1	Split Air Cond.	1	EER	SEER	Not Zonal	Single Speed	Cooling Component 1-Hers-cool
			12.3	14.5			



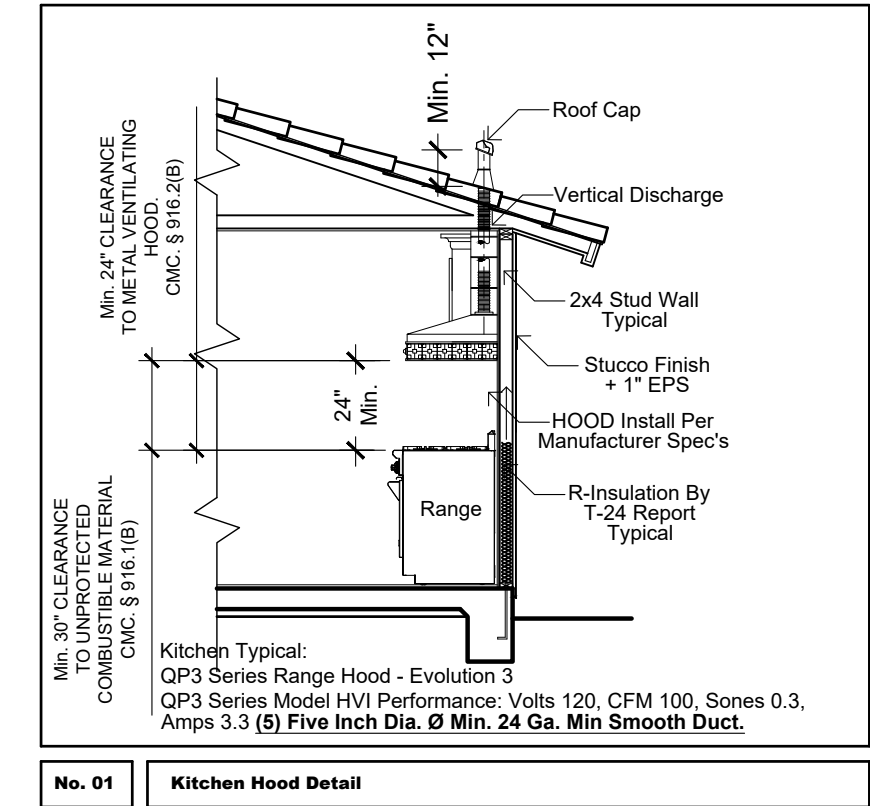
No. 02 FAU @ Attic Location Detail

- 1105.4 Illumination and Service Receptacles. In addition to the requirements of Section 301.4, permanent lighting fixtures shall be installed for equipment required by this code to be accessible or readily accessible. Such fixtures shall provide illumination to perform the required tasks for which access is provided. Control of the illumination source shall be provided.
 - 1105.3 Access. An unobstructed readily accessible opening and passageway not less than 36 inches (914 mm) in width and 80 inches (2032 mm) in height shall be provided and maintained to the compressor, valves required by this chapter, or other portions of the system requiring routine maintenance.
- Exceptions:
- (1) Refrigerant evaporators, suspended overhead, shall be permitted to use portable means of access.
 - (2) Air filters, brine control or stop valves, fan motors or drives, and remotely de-energized electrical connections shall be permitted to be provided access by an unobstructed space not less than 30 inches (762 mm) in depth, width, and height. Where an access opening is immediately adjacent to these items and the equipment is capable of being serviced, repaired, and replaced from this opening, the dimensions shall be permitted to be reduced to 22 inches (559 mm) by 30 inches (762 mm) provided the largest piece of equipment is removed through the opening.
 - (3) Cooling equipment, using Group A-1 refrigerants or brine, located in an attic or furred space shall be permitted to be provided an access by a minimum opening and passageway thereto of not less than 22 inches (559 mm) by 30 inches (762 mm).

Note:
Mechanical Unit Filters Must Be MERV-6 Or Better

Ducts R-Value (Per Title 24 Report)
R-8.0

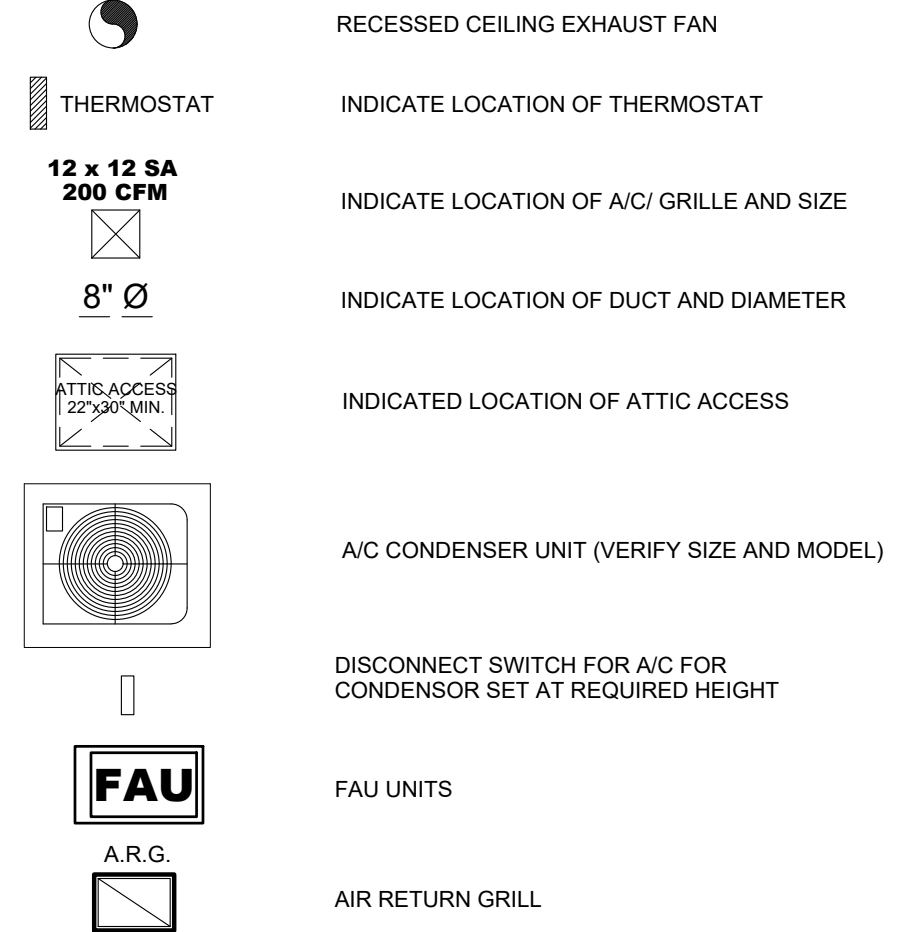
- A Certified HERS rater must field verify the installation of the correct condenser.
- The HVAC System HVAC System Incorporates HERS Verified Refrigerant Charge or a Charge Indicator Display.
- A Certified HERS rater must diagnostically measure airflow of the HVAC System.
- HERS field verification of the AHU model number is required. Duct Leakage cannot exceed 6%



No. 01 Kitchen Hood Detail

1. Ducts used for kitchen range ventilation shall be of metal and shall have smooth interior surfaces.

H.V.A.C. SYMBOLS



Section 4.504 - POLLUTANT CONTROL

4.504.1 Covering of duct openings and protection of mechanical equipment during construction At the time of rough installation, or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered.

4.504.2 Fresh Material Pollutant Control. Fresh Materials Shall Comply With This Section.

4.504.2.1 Adhesives, Sealants and Caulks Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:

1. Adhesives, sealants and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 116B VOC limits, as shown in Tables 4.504.1 and 4.504.2 as applicable. Such products shall also comply with Rule 116B prohibition on the use of certain toxic components (chloroform, ethylene, dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in subsection 2 below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, or California Code of Regulations, Title 17, commencing with Section 94507.

Note: Title 17 may be found at <http://ccr.ca.gov/>

4.504.2.2 Paints and Coatings Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measures as shown in Table 4.504.3 unless the more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as Flat, Nonflat, or Nonflat-High Gloss coating, based on the gloss as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measures, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in 4.504.3 shall apply.

4.504.2.3 Aerosol Paints and Coatings Aerosol paints and coatings shall meet the Product-Weighted MR Limits for ROC in Section 94520(a) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Section 94520(c) and (d)(2) of the California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

1. **Note:** Title 17 may be found at <http://ccr.ca.gov/>

4.504.3 Carpet Systems All carpet installed in the building interior shall meet the testing and product requirements of one of the following:

1. Carpet and Rug Institute's Green Label Plus Program
2. California Department of Public Health Standard Practice for testing of VOC's (Specification 01350)
3. Department of General Services, California Gold Sustainable Carpet Standard
4. Scientific Certifications Systems Indoor Advantage Gold

Notes:

For Green Label Plus, see <http://www.carpet-rug.com/>

For NSF/ANSI 140, see <http://www.carpet-rug.org/carpet-and-rug-industry/sustainability/sustainable-carpet.pdf>

For Indoor Advantage, Gold, see <http://www.sccertified.com/iaq/indooradvantage.htm>

Scientific Certifications Systems Indoor Advantage <http://www.sccertified.com/iaq/indooradvantage.htm>

4.504.3.1 Carpet Caulking All carpet caulk installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label Program.

4.504.3.2 Carpet Adhesive All carpet adhesives shall meet the requirements of Table 4.504.1.

4.504.4 Resilient Flooring Systems Where resilient flooring is installed at least 80% of the floor area receiving resilient flooring shall comply with one or more of the requirements listed in Section 4.504.4.

4.504.5 Composite Wood Products Hardwood plywood, particle board and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxic Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections as shown in Table 4.504.5.

MECHANICAL

- 1) Installation Practices. Mechanical systems shall be installed in a manner in accordance with this code, applicable standards, and the manufacturer's installation instructions. C.M.C. 303.1
- 2) Anchorage of Appliances. Appliances designed to be fixed in position shall be securely fastened in place in accordance with the manufacturer's installation instructions. Support for appliances shall be designed and constructed to sustain vertical and horizontal loads with in the stress limitations specified in the building code. C.M.C. 303.4
- 3) C.M.C. 304.2 Domestic Clothes Dryer. Where a compartment or space for a domestic clothes dryer is provided, not less than a 4 inch diameter (102 mm) moisture exhaust duct of approved material shall be installed in accordance with this section and in Section 504.0 Where a closet is designed for the installation of a clothes dryer, an opening of not less than 100 square inches (6,461 mm²) for makeup air shall be provided in the door or by other approved means.
- 4) Vertical Clearance. Above Cooking Top. Household cooking appliances shall have a vertical clearance above the cooking top of not less than 30 inches (762 mm) to combustible material or metal cabinets. A minimum clearance of 24 inches (610 mm) is permitted where one of the following is installed: C.M.C. 301.4.2.
- (1) The underside of the combustible material or metal cabinet above the cooking top is protected with not less than 1/4 of an inch (6.4 mm) insulating millboard covered with sheet metal not less than 0.0122 of an inch (mm) thick.
- (2) A metal ventilating hood of sheet metal not less than 0.0122 of an inch (0.3099 mm) thick is installed above the cooking top with a clearance of not less than 18 inches (457 mm) above the cooking top.
- (3) A listed cooking appliance or microwave oven installed over a listed appliance shall be in accordance with the terms of the upper appliance listing and the manufacturer's installation instructions.
- 5) Specify the required clearances to combustible construction as required by the listing of the furnace. (C.M.C. 904.2)
- 6) If combustion air is taken from outside, combustion air openings shall be covered with corrosion-resistant screen. Screens shall not be smaller than 1/4-inch mesh. (C.M.C. 701.10.1)
- 7) Termination. A chimney for a residential-type or low heat appliance shall extend not less than 3 feet (914 mm) above the highest point where it passes through a roof of a building and not less than 2 feet (610 mm) higher than a portion of a building within a horizontal distance of 10 feet (3048 mm). (See Figure 802.5.4) (NFPA 54: Figure 12.5.2.1)
- 8) Unlisted Units. Unlisted outdoor cooking appliances shall be installed outdoors with clearances to combustible material of not less than 36 inches (914 mm) at the sides and back and not less than 48 inches (1219 mm) at the front, in no case shall the appliance be located under overhead combustible construction. (NFPA 54: 10.20.2) C.M.C. 604.2
- 9) R303.3 Bathroom Exhaust Fans. Each bathroom containing a bathtub, shower or tub/shower combination shall be mechanically ventilated for purposes of humidity control in accordance with the California Mechanical Code, Chapter 4, and the California Green Building Standards Code, Chapter 4, Division 4.5.
- Note:** Window operation is not a permissible method of providing bathroom exhaust for humidity control.
- 10) Mechanical Exhaust Fans which exhaust directly from bathrooms shall comply with ASHRAE 62.2, Section 5 Exhaust fans shall be ENERGY compliant, exhaust fans shall terminate outside the building.

Whole Building Ventilation Requirements [ASHRAE 62.2, Section 4.1(a)]

Whole building ventilation provides outdoor air ventilation for the entire building as contrasted with local ventilation Exhaust for kitchens and bathrooms.

Provide:

Bathrooms Typical:

QTXE Series Fans

QTXE080

HVI Performance: Static Pressure (Ps) 0.10, CFM 80, Sones 0.3, Watts 23.3

Kitchen Typical:

QP3 Series Range Hood - Evolution 3

QP3 Series Model HVI Performance: Volts 120, CFM 100, Sones 0.3, Amps 3.3

Whole Building Ventilation System Typical:

SSQTXE110 Broan SmartSense

SSQTXE110 Intelligent Ventilation System

HVI Performance:

Static Pressure (Ps) 0.10, CFM 110, Sones 0.3, Watts 480, 13A Resistive

Meets ASHARE 62.2-2010 - Related Ventilation Requirements

Recommended Continuous Ventilation Rate (In CFM [Cubic Feet Per Minute]).

Home	Number Of Bedrooms
Square Footage	4-5
1,760.0 Sq. Ft.	75

Note:
The Whole House Ventilation Will Be Continuously Operating.
"Ventilation Control" "Operate when the House is in Use" or "Keep on except when gone over (7) Seven Days" "Fan is to be left On to ensure indoor air quality"

ASHRAE Standard 62.2 Table 7.1									
Table 7.1 Prescriptive Duct Sizing Requirements									
Duct Type	Flex Duct				Smooth Duct				
Fan Rating cfm @ 0.25 in. w.g.	50	80	100	125	50	80	100	125	
Maximum Allowable Duct Length (ft)									
Diameter, (in)	Flex Duct				Smooth Duct				
3	X	X	X	X	5	X	X	X	
4	70	3	X	X	105	35	5	X	
5	NL	70	35	20	NL	135	85	55	
6	NL	NL	125	95	NL	NL	NL	145	
7 and above	NL	NL	NL	NL	NL	NL	NL	NL	
This table assumes no elbows. Deduct 15 ft of allowable duct length for each turn, elbow, or fitting.									
NL = no limit on duct length of this size									
X = not allowed, any length of duct of this size with assumed turns, elbows, fittings will exceed the rated pressure drop									

Equipment:

Approval Equipment or Appliance shall be approved by the Authority Having Jurisdiction for safe use or comply with applicable nationally recognized standards as evidence by the Listing and Label of an approved agency. A list of acceptable standards is included in Chapter 17. (2016 CMC 301.2)

Bathroom Exhaust Fans:

Each bathroom containing a bathtub, shower or tub/shower combination shall be mechanically ventilated for the purpose of humidity control in accordance with California Green Code - Chapter 4; and the California Green Building Code - Chapter 4.5; Section 4.506 (CRC R303.3.1)

1. Fans shall be Energy Star Compliant and ducted to terminate to the outside of the building.
2. Unless functioning as a component of the whole-house ventilation system, fans must be controlled by a humidity control.

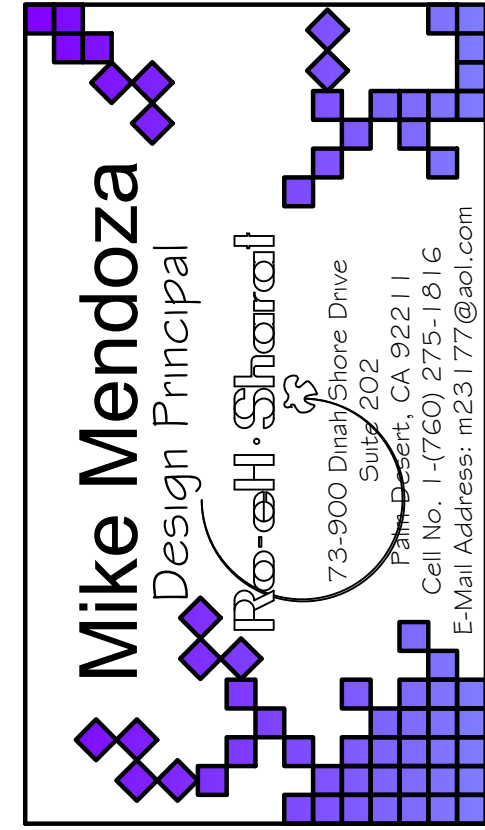
Additional Notes:

Newly Construction Homes (Cal Energy 150.0(n)(1)):

- A 120v. Electrical Receptacle that is with in 3 feet from the water heater and accessible to the water heater with no obstructions; and
- A Category III or IV or Type B vent with straight pipe between the outside termination and the space where the water heater is installed; and
- A condensate drain that is no more than 2 inches higher than the base of the water heater and allows for natural drainage without the assistance of a pump; and
- A gas supply line with the capacity of at least 200K Btu/hr

250.94 Bonding for Other Systems: An intersystem bonding termination for connecting intersystem bonding conductors required for other systems shall be provided external to enclosures at the service equipment or metering equipment enclosure and at the disconnecting means for additional buildings or structures. The intersystem bonding termination shall comply with the following:

- (1) Be accessible for connection and inspection.
- (2) Consist of a set of terminals with the capacity for connection of not less than three intersystem bonding conductors.
- (3) Not interfere with opening the enclosure for a service, building or structure disconnecting means, or metering equipment.
- (4) At the service equipment, be securely mounted and electrically connected sure for the service equipment, to the meter enclosure, or to an exposed non fixable metallic service raceway or be mounted at one of this enclosures and be connected to the enclosure or to the grounding electrode conductor with a minimum 6 AWG copper conductor
- (5) At the disconnecting means for a building or structure, be securely mounted and electrically connected to the metallic enclosure for the building or structure disconnecting means, or be mounted at the disconnecting means and be connected to the metallic enclosure or to the grounding electrode conductor with a minimum 6 AWG copper conductor.
- (6) The terminals shall be listed as grounding and bonding equipment.



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Revisions	Date
Plan Check Revisions	00-00-2018



Owner Name:
SMART HOME OF THE DESERT, INC.
Phone No. 1-(760) 999-0999
P.O. Box 1313
Desert Hot Springs, CA 92240
gilberto@smarthomesold.com

Job Address:
Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:
Mechanical Floor Plan & General Notes

Date: OCTOBER-2018

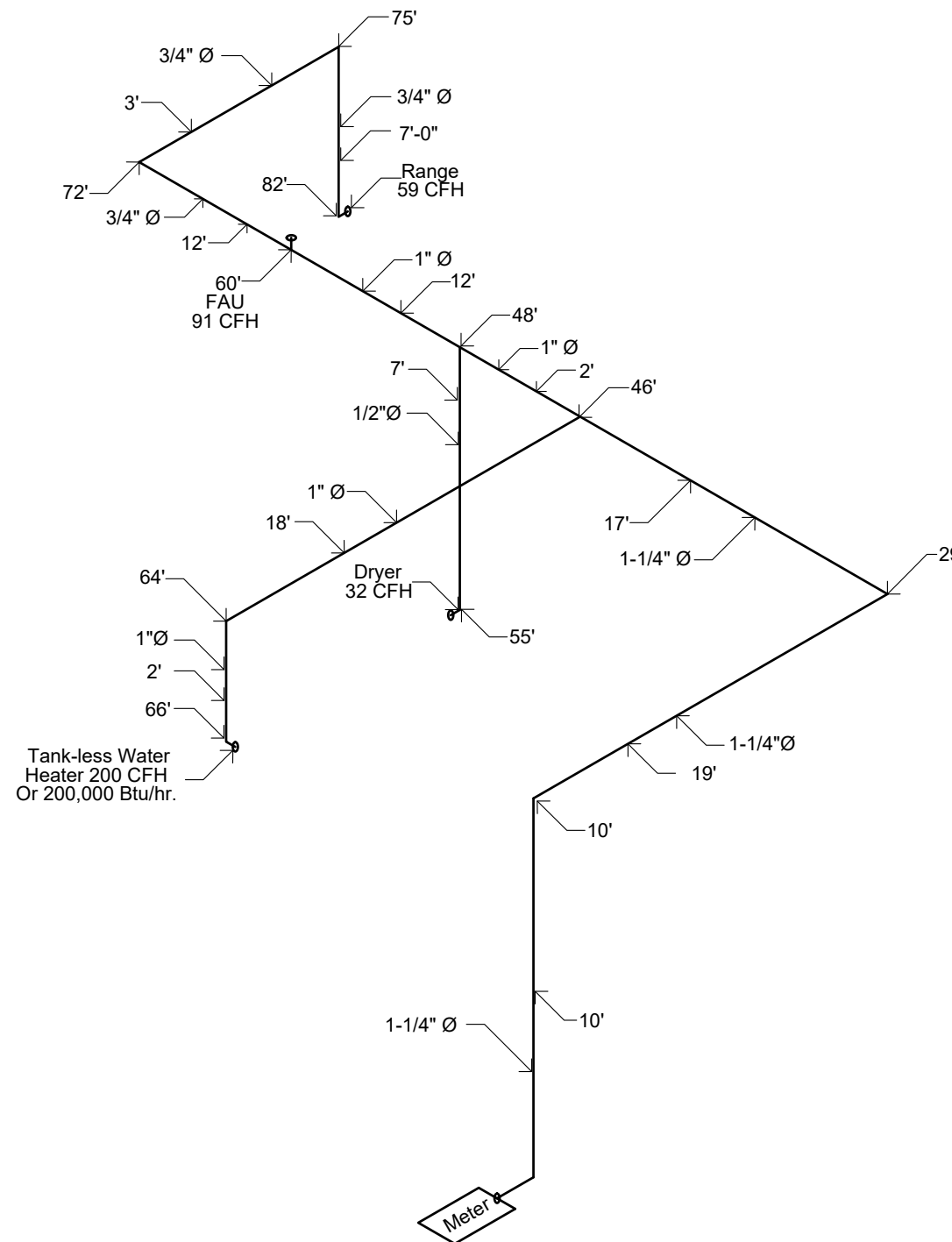
Drawn By: Mike Mendoza

Sign By:

Sheet Number:

M1.01

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



Gas Isometric
Not To Scale

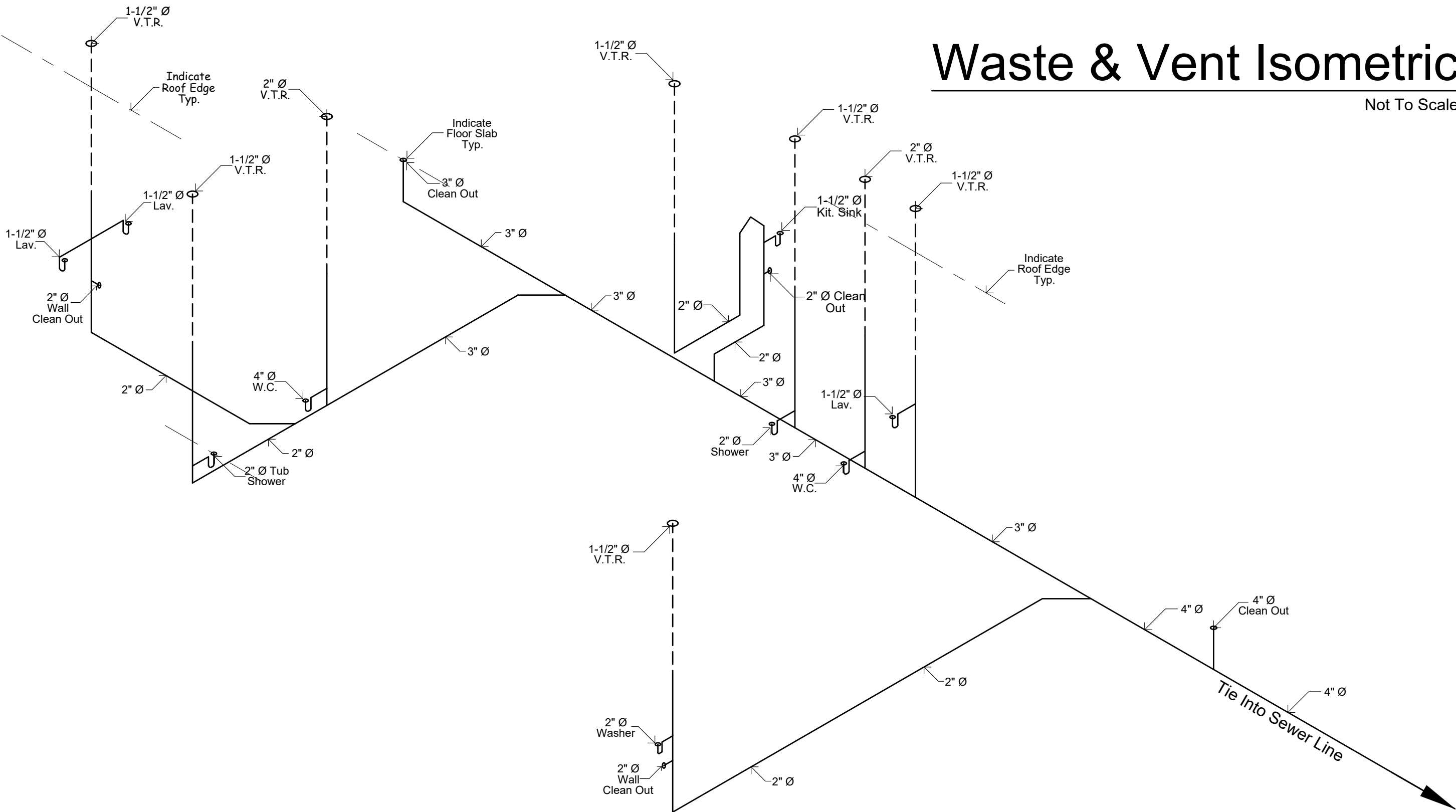
House Gas

Total Development Length 82'-0"

Total CFH 382 CFH

Total Fixture Units

2 - Toilets	12
3 - Sinks	3
2 - Showers	4
1 - Kitchen Sink	2
1 - Washer Mashine	3
9 Units Total	24 Fixture Units



PLUMBING

1.0 GENERAL

1.01 SCOPE

- Provide Labor, Material, Equipment and Service as necessary for the installation of a complete Plumbing System where shown on the drawings and as noted herein.
- B. Plumbing system is to operate according to the best practices of the trade and including but not limited to, fixtures, hot and cold water piping, soil and vent piping, water heaters, pipe insulation, permits, fees, meters, deck drains, etc. (Verify all drains and overflow systems tie in with underground drainage system).

1.02 QUALITY ASSURANCE

A. CODES AND STANDARDS

1. California Building Code (Or current applicable code).
2. California Plumbing Code (Or current applicable Code).
3. Refer to plans by subcontractor or licensed Engineer for actual layout and general notes. (Under separate Permit).

2.0 PRODUCTS

2.01 PLUMBING FIXTURES

- A. As selected by Client/Developer.

3.0 EXECUTION

3.01 GENERAL

- A. Previous work by others Contractors shall inspect details, framing and surfaces for appropriateness to install Gypsum Board, deficiencies are to be reported immediately, in writing to the General Contractor, failure to notify prior to commencement of work will constitute acceptance by the Contractor of suitability of previous work by others.

3.02 INSTALLATION

- A. Rough shall be completed, tested and approved before closing in with other work.
- B. opening in pipes, drain and fittings shall be kept covered during construction.
- C. Provide solid backing for securing fixtures.
- D. Provide clean cuts at ends of all lines and where required by codes.
- E. Verify all pipe assembly requirements with plans prior to installation.
- F. Verify all clearances for water closets, lavs, etc. with approved/handwritten requirements.

3.03 COMBUSTION AIR

- A. Combustion air taken from outside, provide 1" Square Inch from each 1,000 B.T.U.'s 50 % at ceiling and 50 % at floor, provide duct work as required.

Additional Plumbing Notes:

Newly Construction Homes (Cal Energy 150.0)(n)(1):

1. A 120V Electrical Receptacle that is within 3 feet from the water heater and accessible to the water heater with no obstructions; and
 2. A Category III or IV or Type B vent with straight pipe between the outside termination and the space where the water heater is installed; and
 3. A condensate drain that is no more than 2 inches higher than the base of the water heater and allows for natural draining without the assistance of a pump; and a gas supply line with the capacity of at least 200,000 Btu/hr.
- 250.94 Bonding for Other Systems:
- An intersystem bonding termination for connecting intersystem bonding conductors required for other systems shall be provided external to enclosures at the service equipment or metering equipment enclosure and at the disconnecting means for additional buildings or structures. The intersystem bonding termination shall comply with the following:
- a. Be accessible for connection and inspection.
 - b. Consist of a set of terminals with the capacity for connection of not less than three intersystem bonding conductors.
 - c. Not interfere with opening the enclosure for a service, building or structure disconnecting means, or metering equipment.
 - d. At the service equipment, be securely mounted and electrically connected sure for the service equipment, to the meter enclosure, or to an exposed non flexible metallic service raceway or be mounted at one of this enclosures and be connected to the metallic enclosure or to the grounding electrode conductor with a minimum 6 AWG copper conductor.
 - e. At the disconnecting means for a building or structure, be securely mounted and electrically connected to the metallic enclosure for the building or structure disconnecting means, or be mounted at the disconnecting means and be connected to the metallic enclosure or to the grounding electrode conductor with a minimum 6 AWG copper conductor.
 - f. The terminals shall be listed as grounding and bonding equipment.
- All Plumbing Fixtures Shall Meet The Flow Requirements Specified In The 2016 California Green Building Code.
9. When a Shower is provided with **Multiple Shower Heads**, the sum of flow to all the heads shall not exceed 2.0 gpm @ 80 psi, or the shower shall be designed so that only one head is on at a time. C.G.C. 4.303.1.3.2.
 4. **Water Heaters:**

- Effective July 1, 2014 new installation gas water heater shall have all the following as per 2016 Energy Standards 150.0(n):

- 1) A 120 V. Electrical Receptacle is within 3 feet from the Water Heater and accessible with No Obstructions.
 - 2) A Category III or IV Vent, or a Type B Vent with straight pipe between outside and Water Heater.
 - 3) A Condensate Drain no more than 2" (Inches) higher than the base on Water Heater for Natural draining.
 - 4) A Gas Supply line with a capacity of at least 200,000 Btu/hr.
7. Provide a sediment trap at the location of Water Heater and FAU. A sediment trap must be installed as close as possible to the gas inlet of the appliance. Sediment traps are NOT required at ranges, cloth dryers, decorative vented appliances or gas fireplaces.
 8. When a Shower is provided with **Multiple Shower Heads**, the sum of flow to all the heads shall not exceed 2.0 gpm @ 80 psi, or the shower shall be designed so that only one head is on at a time. C.G.C. 4.303.1.3.2.
 9. 608.5 Discharge Piping. The discharge piping serving a temperature relief valve, pressure relief valve, or combination of both shall have no valves, obstructions, or means of isolation and be provided with the following:
 - (1) Equal to the size of the valve outlet and shall discharge full size to the flood level of the area receiving the discharge and pointing down.
 - (2) Materials shall be rated at not less than the operating temperature of the system and approved for such use.
 - (3) Discharge pipe shall discharge independently by gravity through an air gap into the drainage system or outside of the building with the end of the pipe not exceeding 2 feet (610 mm) and not less than 6 inches (152 mm) above the ground and pointing downwards.
 - (4) Discharge in such a manner that does not cause personal injury or structural damage.
 - (5) No part of such discharge pipe shall be trapped or subject to freezing.
 - (6) The terminal end of the pipe shall not be threaded.
 - (7) Discharge from a relief valve into a water heater pan shall be prohibited.
 11. 608.6 Water-Heating Devices. A water-heating device connected to a separate storage tank and having valves between said heater and tank shall be provided with an approved water pressure relief valve.

Plumbing Material List:

- Sewer ABS Schedule 40
- DWV Below Slab ABS Schedule 40
- Waste Above Slab ABS Schedule 40
- Water Service PVC 40
- Water Below Slab Cooper Type L
- Water Above Slab Cooper Type L
- Gas Below Grade Polyethylene
- Gas Above Grade Steel Pipe Black Schedule 40
- Roof Drain Piping ABS Schedule 40
- Valves Approved Manufacturer
- Insulation Required Hot Water
- Insulation Polyethylene Closet Cell
- Indirect Waste PVC Schedule 40

ABS is the Material Type of Choice, Schedule 40 Must Be Specified.

Non Slip-Joint Trap will be used on Bathtubs/Shower Combination

Plumbing Notes:

1. The legend drawing is generic compilation of general notes and symbols that are standardly required on plumbing drawings. Information shown on this drawings may not necessarily be applicable to this specific project. General Contractor/Plumbing Contractor shall be responsible for coordinating information on the plans with pertinent data on this drawings.
2. Plumbing drawings show only pertinent information for location, size and class of piping, equipment and fixtures to be installed, specifications which form part of the drawings, specify material to be used for various sizes and classes of piping, equipment and fixtures.
3. Plumbing systems shall be installed in accordance with the California Plumbing Code (C.P.C.) and all applicable local, State Codes and Regulations with amendments (Latest Edition).
4. Potable water system must be disinfected prior to use as required and outlined in California Plumbing Code.
5. Elevation below ground level are noted in feet and decimals of feet and shall denote invert elevation of pipe. Elevations above ground level are noted in feet & inches and shall denote work point elevation of pipe unless noted otherwise. Bottom of pipe elevations refer to bottom of pipe on uninsulated lines and to bottom of saddle of insulated lines.
6. Piping shown on drawings without dimensional location shall be field routed by Contractor. Contractor shall verify proposed pipe routings prior to installation, including interference with buildings structures, equipment and work of other trades whether new or existing. Proposed routings shall be reviewed with the Construction Manager.
7. Exact location of plumbing equipment, devices and fixtures shall be confirmed by Contractor prior to installation. Contractor shall refer to Architectural drawings for future locations and mounting heights.
8. Contractor shall check locations of other trades work prior to installation of pipe hangers to prevent interference.
9. Reducers, reducing inserts, unions & Appurtenances not shown on drawings but required for proper installation shall be provided by Contractor.
10. Plumbing line size reductions not shown with reducers shall be made with reducing fittings.
11. Pipe sleeves for plumbing lines shall be furnished and installed by Contractor coordinate with slab and wall Contractors for proper location and sizes.
12. Valve handle orientation shall be by Contractor unless specifically shown on drawings or directed by Construction Manager. Valve handle shall clear vehicle and/or personnel traffic and shall be easily accessible.
13. Floor drain and hub drain P-traps shall be deep seal type unless noted otherwise floor drain and hub drain P-traps with trap primer shall be standard seal type unless noted otherwise.
14. Top of floor clean outs shall be flush with finish floor unless noted otherwise.
15. Vent pipe extensions thru roof shall terminate 1'-0" (Minimum) above finished roof.
16. Elevations shown on plumbing drawings are referenced from nominal finished floor elevation.
17. Underground trap primer piping shall be installed in accordance with specifications.
18. Contractor shall seal penetrations through the walls and floors with approved fire sealant, refer to specification. Install per manufacturers instructions for applicable pipe material and size.
19. Pipe penetration through Non-Fired walls and floors shall be sealed airtight.
20. Bathtub, shower, and tub-shower combinations require individual control valves of the pressure balance or thermostatic mixing valve type. Handle position stops should be provided on the valves and should be adjusted per manufacturer's instructions to deliver a Maximum 120°F.
21. All gas piping downstream of pressure regulator to be sized per 2016 C.P.C. Table 1208.4.1 Gas Meters to be accessible. Install automatic earthquake Shut-Off Valve & Regulator as required. Gas Shut-Off valves & pressure regulators to be easily accessible.
22. Pipe insulation required on all hot water pipes 3/4 inch or larger and on all piping from the water heater to the kitchen.
23. The Builder shall provide the Building Owner, Manager or Original Occupants the Following:
 - a. A list of heating, cooling, water heating, and light systems & features, materials, components, and mechanical devices, conservation or solar devices installed in the building, and instructions on how to use them efficiently.
24. Domestic Water Heater shall be certified and listed by the California Energy Commission, and shall be certified by the manufacturer to comply to all requirements of the Energy Efficiency Standards.
25. unfired Hot Water Storage Tanks shall be installed with a minimum R-16 Insulation Jacket.
26. All natural gas fired equipments or systems shall have not continuously burning pilot light.
27. All hot water piping shall be installed and insulated in accordance with the C.E.C. requirements.
28. If a Circulating Hot Water system is installed, it shall have a control capable of automatically turning of the circulating pump(s) when hot water is not being used.
29. The piping for all space conditioning and service water heating systems shall be insulated in accordance with the pipe insulation.
30. Water heating systems shall be equipped with automatic temperature controls capable of adjustments from the lowest to the highest acceptable temperature settings for the intended use listed in Table 3, Chapter 48 of 2005 ASHARE Handbook, H.V.A.C. Application Volume.
31. All plumbing fixtures shall be certified by the California Energy Commission, Plumbing Fixture Water consumption rates shall be as follows:

TABLE 4.303 FIXTURE FLOW RATES

Fixture Type	Maximum Allowable Flow Rate
Showerheads	2.0 gpm @ 80 psi
Lavatory Faucets Residential	1.2 gpm @ 60 psi ^{1,3}
Kitchen Faucets	1.8 gpm @ 60 psi ^{1,4}
Metering Faucets	0.25 gallons/Cycle
Gravity Tank-type water closets	1.28 gallons/flush ²
Flushometer-tank water closets	1.28 gallons/flush ²
Flushometer-Valve water closets	1.28 gallons/flush ²
Urinals	0.125 gallons/flush
Clothes Washers	ENERGY-STAR certified
Urinals	ENERGY-STAR certified

1. Lavatory Faucets shall not have a flow rate less than 0.8 gpm at 20 psi.
2. Kitchen Faucets may temporarily increase flow above the maximum rate, but not above 2.2 gpm @ 60 psi and must default to a maximum flow rate of 1.8 gpm @ 60 psi.
3. Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
4. Kitchen Faucets with a maximum 1.8 gallon/flush installed throughout.
5. Includes single and dual flush water closets with an effective flush of 1.28 gallons or less. Single Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is the average flush volume when tested in accordance with ASME A112.19.233.2. Dual Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME

SECTION 4.303

INDOOR WATER USE

4.303.1 Water conserving plumbing fixtures and fittings.

Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

4.303.1.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush.

Tank-type water closets shall be certified to the performance criteria of the U.S. EPA Water Sense Specification for Tank-type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.

The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

4.303.1.3 Showerheads.

4.303.1.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

4.303.1.4 Faucets.

4.303.1.4.1 Residential lavatory faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

4.303.1.4.2 Lavatory faucets in common and public use areas.

The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4.3 Metering faucets.

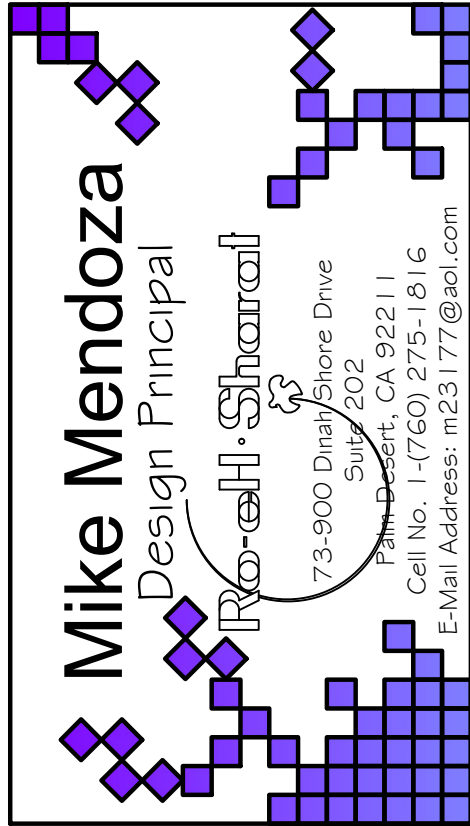
Metering faucets when installed in residential buildings shall not deliver more than 0.25 gallons per cycle.

4.303.1.4.4 Kitchen faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a max-imum flow rate of 1.8 gallons per minute at 60 psi.

Note: Where complying faucets are unavailable, aera-tors or other means may be used to achieve reduction.

4.303.2 Standards for plumbing fixtures and fittings.

Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code*.



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Revisions	Date
Plan Check Revisions	00-00-2018



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Phone No. 1-(760) 999-0999
P.O. Box 1313
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gilberto@smarthomesold.com

Job Address:

Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:

Plumbing Isometrics Plan & General Notes

Date: OCTOBER-2018

Drawn By: Mike Mendoza

Sign By:

Sheet Number:

P1.01

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

GENERAL REQUIREMENTS

- Before starting work the Designer shall be notified.
- The General Contractor shall verify all dimensions and site conditions and or any kind of discrepancies from the construction documents.
- Verify existing and finished grade elevations as per precise grading plan or approved surveying.
- Work reformed shall comply with these general notes, Uniform Building Code, Applicable local and State Codes, Ordinances and Regulations.
- Provide Temporary Toilet Facilities
- Written dimensions take precedence, DO NOT Scale the drawings.
- The design, adequacy and safety of erection, bracing shoring temporary supports, etc. is the sole responsibility of The General Contractor and has not been considered by the Engineer Of Record. The General Contractor is responsible for the stability of the structure prior to the application of all shear walls, roof and floor diaphragms and finish materials. He shall provide the necessary bracing to stability prior to the application of the before mentioned materials. Observation visits to the site shall not include any inspections of the above items.
- Vibrational effects of mechanical equipment has not been considered by Engineer Of Record.
- It shall be the responsibility of the General Contractor to locate and to protect from damage, all existing utilities whether shown hereon or not.
- The General Contractor shall bear all expenses of repair or replacement in conjunction with the prosecution of this work.
- General Contractor shall verify required footing depth shown on Structural Drawings and Structural Detail Sheets. General Contractor shall comply with all Local Codes and Ordinances pertaining to the construction of the Footings and slab.

SITEWORK

- For Grading requirements and Grading notes see Grading Plans and Soils Engineering Report.

MOISTURE PROTECTION

- All sheet metal to be 26 Gauge Galvanized iron unless otherwise noted.
- Flash and counter flashing at roof to wall conditions. Not specifically shown.
- G.I. Flash and caulk wood beams and outlookers projecting through exterior wall or roof surfaces.
- Provide caulking and flashing not specifically shown to ensure a water tight job. See Construction Document for Mandatory Measures list.
- Provide a Minimum of R-38 Fiberglass Blanket Insulation @ attic / ceilings as provide, verification W./Title 24 Report required.
- All exterior windows and sliding doors shall be weather stripped and labeled as complying with A134.1, A134.2, A134.3, and A134.4 showing U-Value.
- All wood windows and wood french doors shall be labeled certifying compliance with NWMA 15-2. Shown U-Value.
- All exterior doors shall comply with Section T-20-1495 (d) of the Energy Standards.
- Door heads sill and jombs shall have seals, astragals or baffles, exterior doors & Garage doors to living space.
- Flashing exterior openings with approved waterproof fabric flashing to extend 3" under building paper.
- Built Up Roofing for Roofs with a Pitch of less than 1:12 and steeper than 1/8 : 12 use (3) Three layers of 15 Felt & Asphalt Hot Map between sheets and a 90 Lbs. Flood Coat of Hot Asphalt with 300 Lbs. Roofing slag or 400 Lbs. Roofing Rock Embedded in Flood Coat.

WALL FRAMING

- (Size) Studs in exterior walls and interior bearing walls of the building shall not be less than 2 inch. in size, unless otherwise noted.
- Unless supported laterally by adequate framing, the Maximum allowable height fro studs shall be 14 Feet for 2 x 4 and (3) Three studs.
- Studs supporting floors and ceiling or rafters shall be spaced not more than 16 Inches.
- (Cripple Walls) Cripple walls shall be framed with studs not less in size than the studing above with a minimum length of 24 inches or shall be framed of solid blocking. When exceeding (4) Four Feet in height, such walls shall be framed of studs having the size required for an additional story.
- Pipes in Walls:

Stud partitions containing plumbing, heating, or other piped shall be so framed and the joists underneath so spaced as to give proper clearance for piping. Where a partition containing such piping runs parallel to the floor, joists underneath such partitions shall be doubled and spaced to permit the passage of such pipes and shall be bridged. Where plumbing, heating, or other pipes are placed in or partly in a partition, necessitating the cutting of the soles or plates, a metal tie not less than ½ Inch thick and 1-1/2 Inches wide shall be fastened to the plate across and to each side of the opening with not less than (4) Four 16d. Nails.

- Bridging: All stud partitions or walls with studs having a height to least thickness ratio exceeding 50 shall have bridging not less than (2) Two inches in thickness and of the same width as the studs fitted snugly and nailed there to provide adequate lateral support, unless covered by interior or exterior wall covering or sheathing meeting the minimum requirements of the Uniform Building Code applicable edition.

- Cutting and Notching: In exterior walls and bearing partitions any wood studs may be cut or notched to a depth not exceeding 25 % percent of its width. Cutting and notching of studs to depth not greater than 40 % percent of the width of the stud is permitted in non bearing partitions supporting no loads other than the weight of the partition.

- Bored Holes: A hole not grater in diameter than 40 % percent of the stud may be bored in any wood studs. Bored holes not greater than 60 % percent of the width of the stud is doubled provide not more than two such successive doubled stud are so bored. In no case shall the edge of the bored hole be nearer than 5/8 of an inch to the edge of the stud. Bored holes shall not be located at the same section of stud as a cut or notch.

SHEET METAL

- Sheet Metal Work shall be fabricated and installed in accordance with The "Architectural Sheet Metal Manual" A.I.A. File No. 12-L of Sheet Metal Air Conditioning Contractors National Association, Inc. (SMACONNA). Unless detailed otherwise on the drawings. Materials shall be in accordance with the specifications and standards of American Society for Testing and Materials (A.S.T.M.) Latest Edition.
- Approved Spark Arrestors shall be installed in all Chimneys and per manufacturer specifications.
- Provide No. 26 Gauge (0.48) Galvanized Iron Flashing and Counter Flashing at juncture of Roof and Vertical Surfaces.
- Provide Minimum 26 Gauge (0.48 mm) Galvanized Weep Screed at or below the Foundation Plate Line 2" (51 mm) Minimum Above Earth or 2" (51 mm) Above Paved Areas.
- Specify Minimum No. 28 Gauge (0.41 mm) Galvanized Iron Valley Flashing.

METALS

- Structural steel shapes, plates and tubes shall be per A.S.T.M. A-36
- Welding shall be in accordance with A.W.S. D1.0 Code for Welding in Building Construction Electrodes shall conform to A.S.T.M. A 233, E 60 Series.
- All shop welding shall be done by qualified welders in approved fabricator shops and painted with one coat of red lead primer.
- Guardrails and support connections shall resist a horizontal force of 20 Lbs. per linear foot at the top rail. Intermediate rail members of open type railing shall not allow 4" (103 mm) Diameter object to pass through handrail / guardrail per C.B.C. or any applicable Codes.

CARPENTRY

- ALL FRAMING SHALL BE GRADE MARKED IN ACCORDANCE WITH GRADING RUKES 16. UNLESS OTHERWISE SPECIFIED. ALL FRAMING LUMBER SHALL BEAR THE FOLLOWING MINIMUM GRADES : JOISTS AND RAFTERS = S.F. NO. 2 OR BETTER; 4" x HEADERS AND BEAMS = D.F. NO. 2 OR BETTER; 6" x LARGER BEAMS = D.F. NO. 1 STUDS AND LIGHT FRAMING D.F. CONSTRUCTION GRADE; 4" x POSTS = D.F. NO. 2 OR BETTER; 6" AND LARGER POSTS = D.F. NO. 1
- MUDSILLS SHALL BE PRESSURE TREATED DOUGLAS FIR OR FOUNDATION GRADE REDWOOD
- PLYWOOD EXPOSED TO WEATHER WILL BE EXTERIOR GRADE
- FRAMING SHALL BE DONE IN A WORKLIKE MANNER BY SKILLED MECHANICS. CODES.
- 2 x SOLID BLOCK ALL FLOOR JOISTS AND RAFTERS AT ALL BEARING POINTS AND PER STRUCTURAL SECTIONS AND DETAILS.
- ROOF AND FLOOR NAILING INSPECTION REQUIRED BEFORE COVERING.
- PROVIDE BLOCKING FOR ALL HANDRAILS. PROVIDE BLOCKING FOR GRAB BARS AT BATHROOMS
- WALL FRAMING SHALL BE 2 x STUDS AT 16" O.C. PROVIDE DOUBLE 2x TOP PLATE WITH MINIMUM 48" LAP SPLICE. UNLESS OTHERWISE NOTED. 2x6 STUDS @ WALL CONTAINING HORIZONTAL PLUMBING LINES.
- PROVIDE DOUBLE TRIMMERS EACH SIDE OF OPENINGS 6" - 0" WIDE OR GREATER.
- PROVIDE FIRESTOPPING IN STUD SPACES AT ALL FLOOR AND CEILING LEVELS AND STUD SPACES OVER 8" - 0" WIDE OR GREATER.
11. ALL POST TO BEAM CONNECTIONS SHALL BE " SIMPSON " PC OR CC. OR APPROVED EQUAL UNLESS OTHERWISE DETAILED. ALL POSTS SHALL BE SIMPSON CC". " CB " OF " B.C HALF BASE " UNLESS SPECIFICALL DETAILED OTHERWISE.
- ALL EXTERIOR FINISH MATERIAL SHALL BE APPLIED OVER ONE LAYER 15# ASPHALT SATURATED FELT.
- PROVIDE CROSS VENTILATION AT ATTIC AND ENCLOSED RAFTER JOIST SPACES EQUAL TO 1 / 150 OF AREA T BE VENTILATED 1 / 300 PROVIDED THAT 50 % OF REQUIRED VENTILATION AREA IS PROVIDED BY VENTILATORS WITHIN THE UPPER 1 / 3 OF ROOF WITH THE BALANCE OF REQUIRED VENTILATION PROVIDED AT THE EAVES. PROVIDE MIN. 8 MESH PER INCH SCREENING AT ALL ROOF VENTS OR AS NOTED.
- PROVIDE 2 x BLOCKING FOR CABINETS, GRAB RAILS, TOWELS BARS, PAPER AND DISPENSERS AND SOAP DISPENSERS AS REQUIRED.
- 3 OR MORE MULTIPLE JOISTS SHALL BE BOLTED TOGETHER WITH 1 / 2" DIAMETER BOLTS @ 24" O.C. STAGGERED RE - TIGHTEN BOLTS PRIOR TO APPLYING FINISH MATERIALS.
- STUD WALLS SUPPORTING TWO FLOORS AND A ROOF SHALL BE FRAMED WITH 2 x 6 OR 3 x 4 STUDS @ 16" O.C.
- PROVIDE DOUBLE FLOOR JOISTS UNDER ALL PARALLEL NON BEARING PARTITIONS.
- USE " SIMPSON " " U " HANGERS ON ALL JOISTS / BEAM CONNECTIONS. " T " " HANGERS AT BEAM / BEAM CONNECTIONS (UNLESS NOTED ON PLANS).
- STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED.
- HOLES OR BOLTS SHALL BE BORED 1 / 32" TO 1 / 16" LARGER THAN NOMINAL BOLT DIAMETER.
- ALL BOLTS BEARING ON WOOD SHALL HAVE WASHERS UNDER HEAD AND / OR NUT. ALL BOLTS SHALL BE RETIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC.
- CROSS BRIDGING SHALL BE PROVIDED @ 8" - 0 O.C. MAX. FOR ALL JOISTS AND RAFTERS MORE THAN 8" IN DEPTH. USE 2 x 3 OR AN APPROVED METAL TYPE OF BRIDGING.
- ATTACH 2x NAILERS TO STRUCTURAL STEEL W/ 1 / 2" DIAMETER ANCHOR BOLTS @ 4" - 0" O.C. ATTACHMENT OF FINISH NOTED AND SHOWN ON ARCHITECTURAL DRAWING.
- GLUED - LAMINATED WOOD BEAMS SHALL BE DOUGLAS FIR COMB 24" (Fw=2400 PSI, Fv = 165 PSI, E = 1800000 PSI) INDUSTRIAL APPEARANCE WITH EXTERIOR GLUE UNLESS OTHERWISE NOTED.
- CERTIFICATE OF INSPECTION FOR EACH GLU - LAM BEAM FROM AN APPROVED TESTING AGENCY TO BE SUBMITTED TO THE BUILDING DEPT. PRIOR TO ERECTION.
- ATTIC ACCESS SHALL BE LOCATED MAX 20' FROM EQUIP. AND PROVIDE UNOBSTRUCTED ACCESS 24" WIDE FOR SOLID FLOOR.
- ALL NEW GLAZING FENESTRATION WILL BE INSTALLED WITH A CERTIFY LABELED ATTACHED. SHOWING THE U - VALUE.
- ALL EXTERIOR DOOR AND DOORS TO THE GARAGE SHALL BE FULLY WEATHER STRIPPED WITH THRESHOLD.
- PROVIDE 22 " X30 " MINIMUM ATTIC ACCESS.
- ALL ROUGHSAWN AND RESWAN SURFACES TO RECEIVE STAIN U.N.O.

ELECTRICAL NOTES

- ALL WORK SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES, REGULATIONS OF GOVERNING AGENCIES AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SERVING POWER AND TELEPHONE COMPANIES.
- THE CONTRACTOR SHALL VERIFY AVAILABILITY OF SERVICES AND DETERMINE ACTUAL DETAILS PERTAINING TO EXACT LOCATIONS AND REQUIREMENTS BEFORE SUBMITTING HIS BID. UPON RECEIPT OF NOTICE THAT ELECTRICAL CONTRACT AWARD HAS BEEN MADE, SUCCESSFUL BIDDER SHALL NOTIFY POWER AND TELEPHONE. SERVING UTILITY COMPANIES OF THE ESTIMATED DATE WHEN SERVICE SHALL BE DESIRED.
- ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER.
- ALL EQUIPMENT INSTALLED OUTDOORS AND EXPOSED TO WEATHER SHALL BE WEATHERPROOF, AND G.F.I. PROTECTED. RECEPTACLES IN BATHROOMS SHALL BE INSTALLED ABOVE COUNTER TOP. RECEPTACLES IN BATHROOMS / KITCHENS SHALL BE G.F.I. PROTECTED.
- RECEPTACLES SHALL BE INSTALLED VERTICALLY AT 12" + ABOVE FLOOR UNLESS OTHERWISE NOTED.
- WALL SWITCHES TO BE 36" ABOVE FLOOR UNLESS OTHERWISE NOTED.
- ALL ELECTRICALLY OPERATED FIXTURES, OUTLETS, EQUIPMENTS OR DEVICES WHETHER INSTALLED BY THIS CONTRACTOR OR OTHERS, SHALL BE FULLY CONNECTED TO PROPER ELECTRICAL SOURCE AND LEFT IN OPERATING CONDITION.
- ALUMINIUM WIRE SHALL NOT BE USED IN ELECTRICAL WIRING.
- ALL OUTLETS SHALL BE GROUNDED TYPE.
- PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION ON ALL OUTDOOR RECEPTACLES.
- RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET HORIZONTALLY FROM AN OUTLET.
- REQUIRED BATHROOM FANS MUST PROVIDE 5 AIR CHANGES PER HOUR AND CONNECTED DIRECTLY TO THE OUTSIDE.
- PROVIDE A SMOKE DETECTOR AS REQUIRED BY C.B.C. BUILDING DEPT., OWNER / DEVELOPER. DETECTOR SHALL BE LOCATED WITHIN 12" OF THE CEILING. SMOKE DETECTORS TO BE 110V. POWERED WITH A BATTERY BACK - UP.
- ALL APPLIANCES SHALL BE SECURELY FASTED IN PLACE.
- CONDENSING UNIT ON SITE SHALL BE PLACED ON CONCRETE PADS AT NO LESS THAN 3" ABOVE GRADE.
- PROVIDE SECURITY SYSTEM FOR THE ENTIRE HOUSE INCLUDING ALARMING EXT. DOORS AND WINDOWS VERIFY OTHER REQ. OPTIONAL, VERIFY WITH GENERAL CONTRACTOR.
- SET BACK THERMOSTAT ON ALL H.V.A.C. EQUIPMENT.
- INSULATION TO MEET C.E.C. STANDARDS.
- LIGHT FIXTURES ONE TUB OR SHOWER SHALL BE LABELED SUITABLE, PER DAMP LOCATION.
- LIGHT FOR CLOSETS OR WALK IN CLOSETS SHALL BE PER CODE C.E.C.
- COUNTERTOP RECEPTACLES OUTLET COMPLY WITH C.E.C. IN KITCHENS AND DINING AREAS OF DWELLING UNITS A RECEPTACLE OUTLET SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24" MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE.
- SHOW RECEPTACLE OUTLETS IN HALLWAYS OF 10' - 0" OR MORE IN LENGTH C.E.C.
- PROVIDE FLORESCENT GENERAL LIGHTING (40 LUMENS PER WATT MINIMUM) IN KITCHEN AND BATHROOMS.
- VERIFY LOCATIONS OF OUTLETS, SWITCHES & FIXTURES PRIOR TO PULLING OF WIRE. VERIFY SELECTIONS OF LIGHT FIXTURES. PROVIDE INSTALLATION OF ALL OWNER SUPPLIED EQUIPMENT.
- SHOW PERMANENT ELECTRICAL OUTLET AND LIGHTING FIXTURES CONTROLLLES BY A SWITCH FOR FURNACE LOCATED ON ATTIC OR UNDER FLOOR SPACE.

FINISHES

- One Coat Stucco System, must include one layer of water resistive barrier, having a flame-spread index of 25 or less and smoke-developed index of 450 or less. The water resistive barrier must be installed over the sheathing in accordance with IBC Section 1404.2 EPS insulation board with a nominal 1.5 pcf (24 kg/m) density must be installed at a 1-inch (25 mm) thickness horizontally in running bond to the sheathing. The lath insulation board and water resistive barrier must be positively fastened to the studs framing. The Stucco System must be applied at a ½ Inch (9.5 mm) minimum thickness. ICC-ES Evaluation Report E-338-1194.
- Weep Screed shall be provided at the foundation plate line of all exterior stud walls. Bottom to be 2" (1ches) Down from the top of the slab. Inspection shall be provided between each progressive step of construction.
- All Gypsum Board shall be installed in accordance with the provisions of the C.B.C Applicable edition, State and Local Codes. Typical nailing: 5d, cooler nails @ 6" (Inches) Edges and Boundaries. Use 6" (Inches) Cooler Nails when installing ½" (Inch) Drywall.
- Gypsum Wall Board shall not be installed until weather protection for the installation is provided. Provide ½" (Inch) Type "X" Fire Code G.W.B. on garage Side of One Hour Wall.
- All edges and ends of Gypsum Wall Boards shall occur on the framing members, except those edges and ends which are perpendicular to the framing members. All edges and ends of gypsum Wall Board shall be in moderate contact except in concealed spaces where Fire - Resistant Construction or Diaphragm action is not required.

FIRESTOPPING

H. FIRE AND DRAFT STOPS

In combustible construction fireblocking and draft-stopping shall be installed to cut off all concealed draft openings(both) vertical and horizontal and shall form an effective barrier between floors, between a top story and roof or attic space and shall subdivide attic space concealed roof spaces and floor ceiling assemblies. The integrity of all fire and draft stops shall be maintained.

Fireblocks, where required shall be provided in the following locations:

- In concealed spaces of studs walls and partitions, including furred spaces at the ceiling and floor levels and at 10'-0" intervals both vertical and horizontal.
- Exception: Fire block may be omitted at floor and ceiling levels when approved smoke-actuated fire dampers are installed at these levels.
- At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cover ceilings.
- In concealed spaces between stairs stringers at the top and bottom of the run and between studs along and in line with the run of stairs if the wall under the stairs are unfinished.
- In openings around vents, pipes, ducts, chimneys, fireplaces and similar openings which afford a passage for fire at ceiling and floor levels, with noncombustible materials.

I. FIRE BLOCK CONSTRUCTION

Except as provided in item 4 above fire-stoppping shall consist of 2" (Inches) nominal lumber or two (2) thickness of 1" (Inch) nominal lumber with broken lap joints backed by 23/32-Inch Plywood. Fireblock may also be of Gypsum board, glass fiber, mineral fiber or other approved materials securely fastened in place. Loose fill insulation can not be used. Walls having parallel or staggered studs for sound transmission control shall have fire blocks of mineral fiber or glass fiber or other approved non-rigidified material.

J. DRAFT STOP WHERE REQUIRED SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS.

FLOOR CEILING ASSEMBLIES

- Single family dwelling where there is usable space above and below the concealed space of a floor ceiling assembly in a single family dwelling, draft stops shall be installed so that the area of the concealed space does not exceed 1,000 square feet. Draftstopping shall divide the concealed space in to approximately equal areas.
- Two or more dwelling units, draft stops shall be installed in floor ceiling assemblies or building having more than one dwelling unit, such draft stop shall be in line with walls separating tenants from each other and separating tenants from other areas.

K. DRAFT STOP CONSTRUCTION

Draftstopping materials shall be not less than 1/2" (Inch) Gypsum board, 3/8" (Inch) Plywood or other approved materials adequately supported.

L. STAIRS DRAFT STOP

Fireblocking shall be provided in concealed spaces between stair stringers at the top and bottom of the run. Enclosed spaces under stairs shall also comply.

3.02 INSTALLATION

A. WALL FRAMING:

- SIZE: Studs in interior walls and interior bearing walls of buildings not more than two (2) stories in height shall be not less than 2x4's in size for three story buildings such studs shall not be less than 3x4's to the bottom of the second floor joist and 2x4's for the two upper stories. Interior non bearing partitions may be framed with 2x4 studs.
- HEIGHT: Unless supported laterally by adequate framing the maximum allowable height for non bearing studs shall be 14'-0" for 2x4's studs and 20'-0" for 2x6's refer to Engineer's calculation for any "Balloon Framed" bearing walls more than 10'-0" in height.
- Spacing studs supporting floors and ceilings or rafters shall be spaced no more than 16" (Inches).
- Cripple walls shall be framed of studs not less in size than the studding above or shall be framed of solid blocking, when exceeding 4'-0" in height such walls shall be framed of studs having the size required for an additional story.

B. BEAMS AND GIRDERS

- The ends of beams or girders supported on masonry or concrete shall have no less than 3" (Inches) of bearing.
- All beams or girders supported on wood shall have full bearing and bearing shall be comprehend of in an approved manner unless otherwise selected on plans.
- Provide 2x4 temporary bracing to all beams projecting 3'-0" beyond building line to prevent warpage.

C. FLOOR JOIST (TRUSSES)

- Bearing, except where joist are support on a 1x4 ribbon strip and nailed to the adjoining stud the end of each joist shall have not less than 1-1/2" (Inch) of bearing in wood or metal, not less than 3" (Inches) on masonry, provide full bearing transition for transfer of point loads see manufacturer details and/or Structural Engineer of record recommendations.
- Blocking joist shall be supported laterally at the ends and at each support by solid blocking except where the ends of joist are nailed to header, band or rim joist or to an adjoining stud or by other approved means. Solid blocking shall be not less than 2" (Inches) nominal in thickness and the full depth of joist provide full bearing transition for transfer of point loads. Use manufacturer's details and/or Structural Engineer of records recommendations.
- Notches and Holes: Notches on the end of the joist shall not exceed 1/4" (Inch) of the joist depth. Holes bored in joist shall not be with in 2" (Inches) of the top or bottom of the joist and the diameter of any such hole shall not exceed 1/3 the depth of the joist. Notches in the top or bottom of joist shall not exceed 1/6 the depth and shall not be located in the middle third of the span.
- Laps: Joist framing from opposite sides of a beam girder or partition shall be lapped at least 4" (Inches) the opposing joist shall be tied together in an approved manner.

RESIDENTIAL MANDATORY MEASURES

4.504.2.1 Adhesive Sealants And Caulks:

Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:

- Adhesives, adhesives bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables
- 4.504.1 or 4.504.2 as applicable. Such products shall also comply with Rule 1168 prohibition on the use of certain toxic components (chloroform, ethylene, dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in subsection 2 below.
- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

4.504.2.2 Paints and Coatings:

Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measures as shown in Table

- 4.504.3 unless the more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in 4.504.3 shall comply.

4.504.2.3 Aerosol Paints and Coatings:

Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Section 94522(a)(1) and (f)(1) of the CCR, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District shall additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

4.504.3 Carpet System:

Carpet installed in the building interior shall meet the testing and product requirements of 1 of the following: 1. Carpet and Rug Institute's Green Label Plus Program 2. California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350) 3. NSF/ANSI 140 at the Gold level 4. Scientific Certifications Systems Indoor Advantage™ Gold.

4.504.3.1 Carpet Cushion:

All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label Program.

TABLE 4.504.2.1 ADHESIVE VOC LIMIT[®]

Less Water and Less Exempt Compounds In Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesives	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Adhesives	50
Drywall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesive	250
Other Adhesive Not Specifically Listed	50
SPECIALTY APPLICATIONS	
PVC Welding	510
CPVC Welding	490
ABS Welding	325
Plastic Cement Welding	250
Adhesive Primer For Plastic	550
Contact Adhesive	80
Special Purpose Contact Adhesive	250
Structural Wood Member Adhesive	140
Top and Trim Adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to Metal	30
Plastic Foams	50
Porous Material (Except Wood)	50
Wood	30
Fiberglass	80

- If any adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content should be allowed.
- For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, <http://www.arb.ca.gov/DRDB/SC/CUR/HTML/R1168.PDF>.

4.504.4 Resilient Flooring Systems:

Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following:

- Products compliant with the California Department of Public Health, "gStandard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools Program)
- Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program 4. Meet the California Department of Public Health, "gStandard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350)

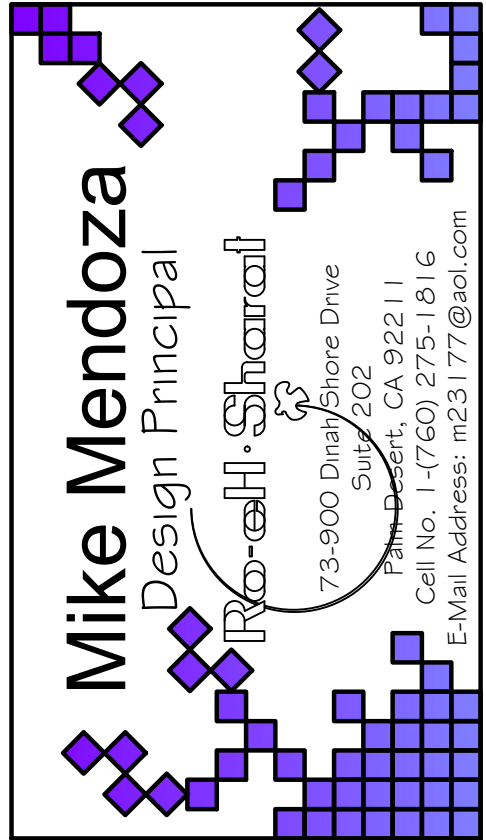
4.504.5 Composite Wood Products:

Hardwood plywood, particle board and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in the Air Resources Board's Air Toxic's Control Measure for Composite Wood (17CCR 93120 et. seq.), as shown in Table 4.504.5. Documentation is required per Section 4.504.5.1.

Definition of Composite Wood Products: Composite wood products include hardwood plywood, particle board, and medium density fiberboard. "Composite wood products" shall not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood-joists, or finger-joined lumber, all as specified in CCR, Title 17, Section 93120.1(a).

4.504.5.1 Documentation:

Verification of compliance shall be provided as requested by the enforcing agency, and as required in Section 4.504.5.1.



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Revisions	Date
Plan Check Revisions	00-00-2018



Owner Name:
SMART HOME OF THE DESERT, INC.
Phone No. 1-(760) 999-0999
P.O. Box 1313
Desert Hot Springs, CA 92240
gilberto@smarthomesotd.com

Job Address:
**Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240**

Sheet Name:	
General Notes	
Date:	OCTOBER-2018
Drawn By:	Mike Mendoza
Sign By:	
Sheet Number:	

G1.01

Scale: To Plot Scale: 1/4" = 1'-0"

Grading & Paving

4.106.3. GRADING AND PAVING. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. EXAMPLES OF METHODS TO MANAGE SURFACE WATER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. SWALES
2. WATER COLLECTION AND DISPOSAL SYSTEMS
3. FRENCH DRAINS
4. WATER RETENTION GARDENS.
5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS SND SID IN GROUNDWATER RECHARGE.

EXCEPTIONS: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.CGC

Indor Water Use

WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMING FIXTURES (WATER CLOSETS AND URINALS AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING, PER CGC 4.303.1.

TABLE 4.303 FIXTURE FLOW RATES

Fixture Type	Maximum Allowable Flow Rate
Showerheads	2.0 gpm @ 80 psi
Lavatory Faucets Residential	1.2 gpm @ 60 psi ^{1,3}
Kitchen Faucets	1.8 gpm @ 60 psi ^{1,4}
Metering Faucets	0.25 gallons/Cycle
Gravity Tank-typewater closets	1.28 gallons/flush ⁵
Flushometer-tank water closets	1.28 gallons/flush ⁵
Flushometer-Valve water closets	1.28 gallons/flush ⁵
Urinals	0.125 gallons/flush
Clothes Washers	ENERGY-STAR certified
Urinals	ENERGY-STAR certified

1. Lavatory Faucets shall not have a flow rate less than 0.8 gpm at 20 psi.
2. Kitchen Faucets may temporarily increase flow above the maximum rate, but not above 2.2 gpm @ 60 psi and must default to a maximum flow rate of 1.8 gpm @ 60 psi.
3. Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
4. Kitchen faucets with a maximum 1.8 gallon/flush installed throughout.
5. Includes single and dual flush water closets with an effective flush of 1.28 gallons or less. Single Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is the average flush volume when tested in accordance with ASME A112.19.233.2. Dual Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME

NOTE:
4.303.1.1 WATER CLOSETS.: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE EQUIVALENT DESIGN SOFTWARE OR METHODS. COMPOSITE, AVERAGE FLUSH OF TWO REDUCED FLUSHES AND ONE FULL FLUSH

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER.: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

4.303.1.4.4 KITCHEN FAUCETS : WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

Outdoor Water Use

4.304.1 IRRIGATION CONTROLLERS. AUTOMATIC IRRIGATION SYSTEM CONTROLLERS FOR LANDSCAPING PROVIDED BY THE BUILDER AND INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY

WITH THE FOLLOWING:

1. CONTROLLERS SHALL BE WEATHER-OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGE IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE.
2. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEM THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE SEPARATE WIRED OR WIRELESS RAIN SENSORS WHICH CONNECT OR COMMUNICATES WITH THE CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT.

NOTE:
MORE INFORMATION REGARDING IRRIGATION CONTROLLER FUNCTION AND SPECIFICATIONS IS AVAILABLE FROM THE IRRIGATION ASSOCIATION.

Indoor Air Quality And Exhaust

4.506.1 BATHROOM EXHAUST FANS. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FAN MUST BE CONTROLLED BY HUMIDITY CONTROL
- A. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF < 50PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
- B. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN).

NOTES:

1. FOR THE PURPOSES OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER, OR TUB/SHOWER COMBINATION.
2. LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE
3. CALIFORNIA ENERGY CODE.

Building Maintenance And Operation

4.410.1 OPERATION AND MAINTENANCE MANUAL. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:

1. DIRECTIONS TO THE OWNERS OR OCCUPANTS THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
 - 2.
 3. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
A. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCE AND EQUIPMENT.
 - B. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
 - C. SPACE CONDITIONING SYSTEM, INCLUDING CONDENSERS AND AIR FILTERS.
 - D. LANDSCAPE IRRIGATION SYSTEMS.
 - E. WATER REUSE SYSTEMS.
3. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
4. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
5. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AS INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
6. INFORMATION ABOUT WATER-CONSERVATION LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
7. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
8. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
9. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVES PROGRAMS AVAILABLE.
10. A COPY OF SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.

Storm Water Drainage Retention During Construction

4.106.1 GENERAL. PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREA. PRESERVATION OF SLOPES, MANAGEMENT OF THE STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. PROJECTS WHICH DISTURB LESS THE ONE ACRE OF SOIL AND ARE NOT OF A LARGER COMMON DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE

1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE
2. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY US OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD APPROVED BY THE ENFORCING AGENCY.
3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.

Fireplaces

4.503.1 GENERAL. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA PHASE 2 EMISSIONS LIMITS

1. WHERE APPLICABLE LOCAL ORDINANCE

Joints & Penetrations

1. All Joints and Penetrations and other openings in the building envelope that are potential sources of air leakage, shall be caulked, gasket, weather-stripped or otherwise sealed to limit infiltration and exfiltration. Section 1107.

Interior Moisture Control

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. BUILDING MATERIALS BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE INSTALLED. WALL AND FLOOR FRAMING MEMBERS NOT TO BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19-PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:

1. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHOD MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE
2. MOISTURE READING SHALL BE TAKEN AT A POINT 2 FEET (610mm) FROM THE GRADE
3. STAMPED END OF EACH PIECE TO BE VERIFIED.
- AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON THE WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVED TO ENCLOSE THE WALL AND FLOOR FRAMING. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURES' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

4.505.2.1 CAPILLARY BREAK. A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

1. A 4-INCH-THICK (101.6mm) BASE OF 1/2 INCH (12.7mm) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED, FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
2. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
3. A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

Enhanced Durability And Reduced Maintenance

4.406.1 RODENT PROOFING. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENING IN SOLE / BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR METAL PLATES. PIPING PRONE CORROSION SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 313.0 OF (CBC)

Enviromental Confort

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:
1. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J-2004 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER
2. NOTE: 4.303.1.1 WATER CLOSETS.: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE EQUIVALENT DESIGN SOFTWARE OR METHODS.

Written Verification

PRIOR TO FINAL INSPECTION THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST PROVIDE TO THE BUILDING DEPARTMENT OFFICIAL WRITTEN VERIFICATION THAT ALL APPLICATIONS PROVISIONS FROM THE GREEN BUILDING STANDARDS CODES HAVE BEEN IMPLEMENTED AS PART OF THE
1. CONSTRUCTION. CGC 102.3.

Pollution Control

4.504.1 COVERING OF DUCT OPENINGS ARE PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

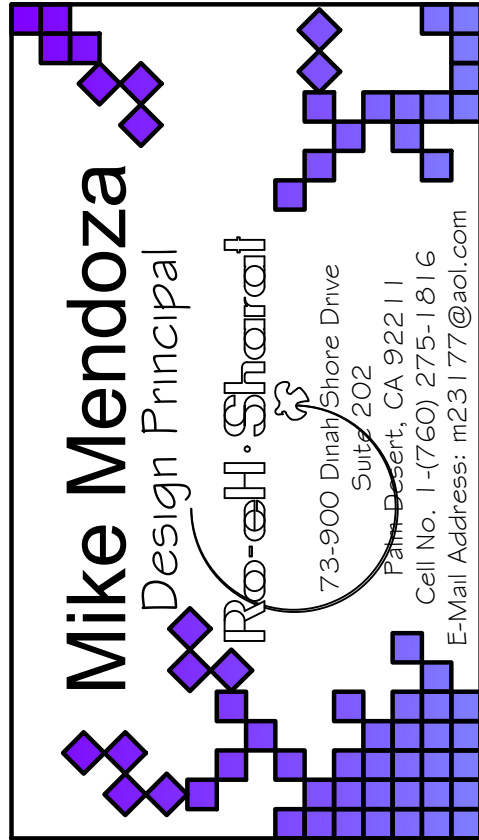
VOC'S MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION: 4.504.3 AND TABLE 4.504.1, 4.504.2, 4.504.3 AND 4.504.5 FOR: ADHESIVES, PAINTS AND COATINGS, CARPETS AND COMPOSITION WOOD PRODUCTS. CGC 4.505.3.

Construction Waste Reduction Disposal And Recycling


4.408.1 CONSTRUCTION WASTE MANAGEMENT, RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3 OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.

EXCEPTIONS:

1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS.
2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXISTS OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE.
3. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITE ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.
- 4.



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Plan Check Revisions 	00-00-2018



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SMART HOME OF THE DESERT, INC.
Phone No. 1-(760) 999-0999
P.O. Box 1313
Desert Hot Springs, CA 92240
gilberto@smarthomesotd.com

Job Address:

Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:

Energy Green Code Requirements

Date: OCTOBER-2018


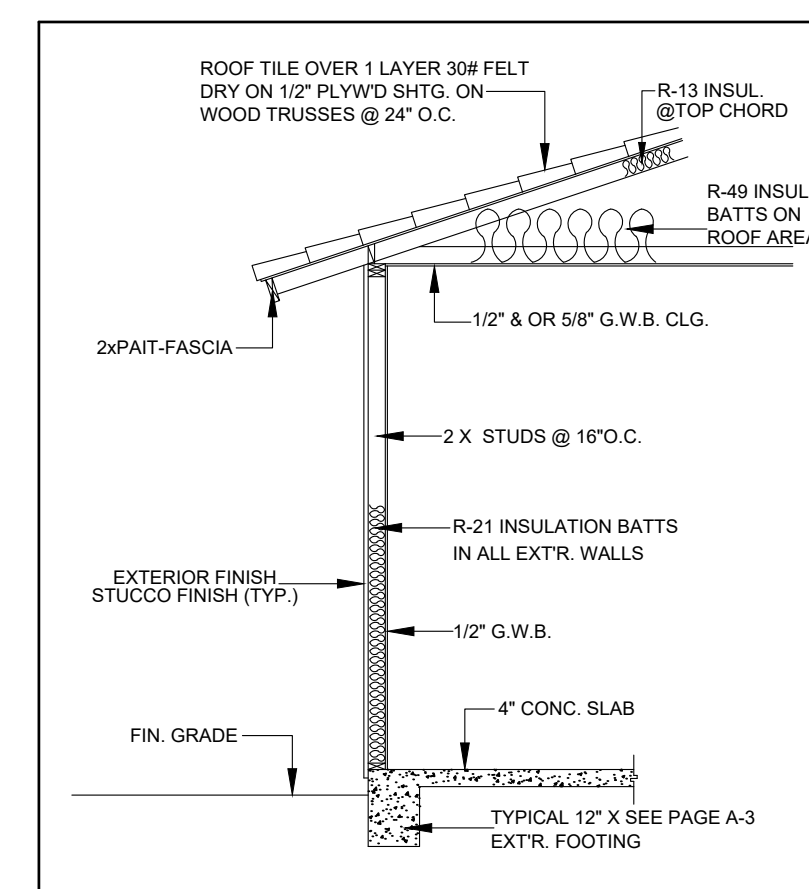
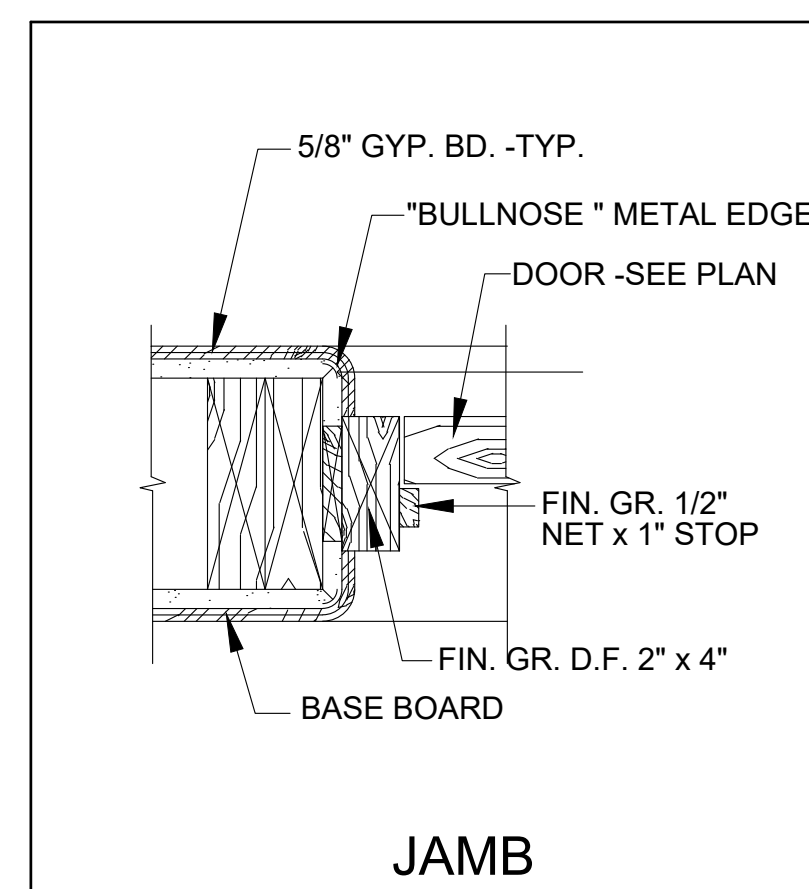
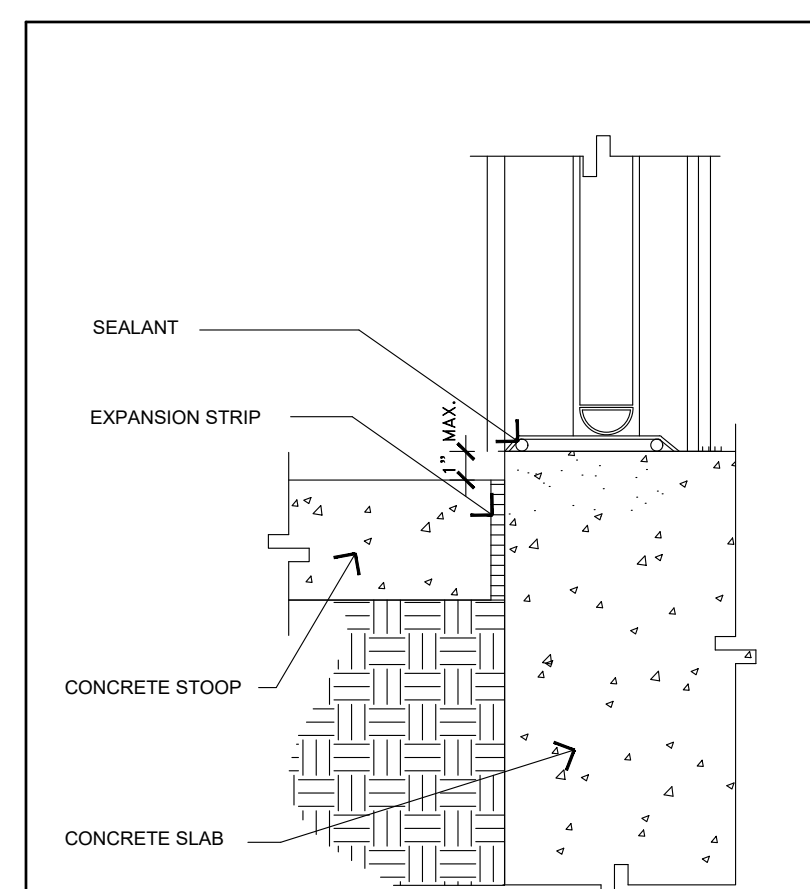
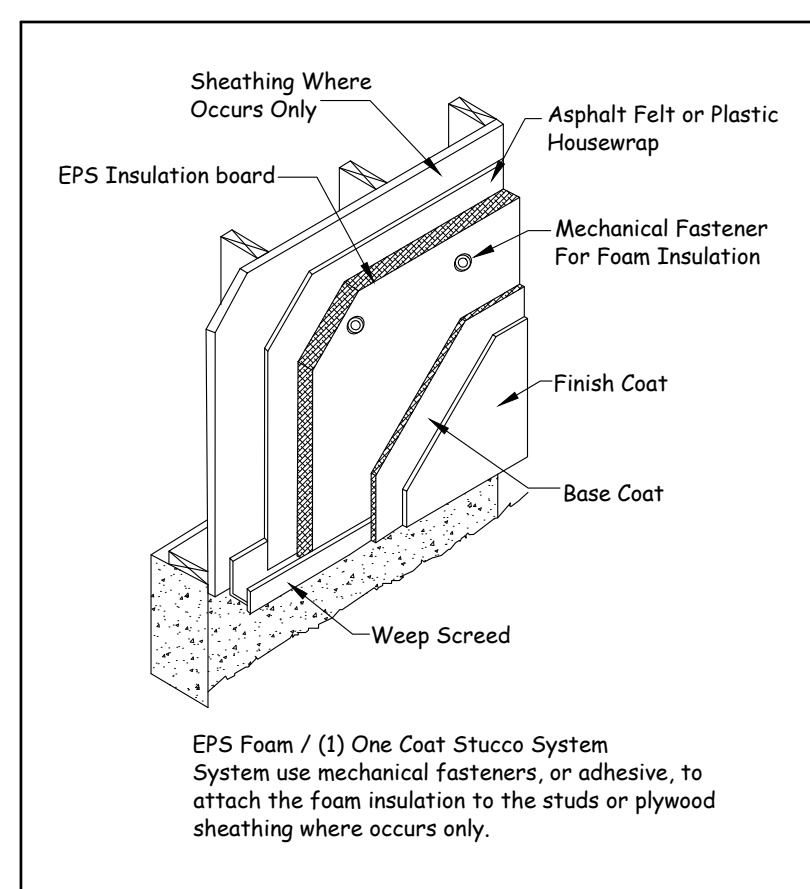
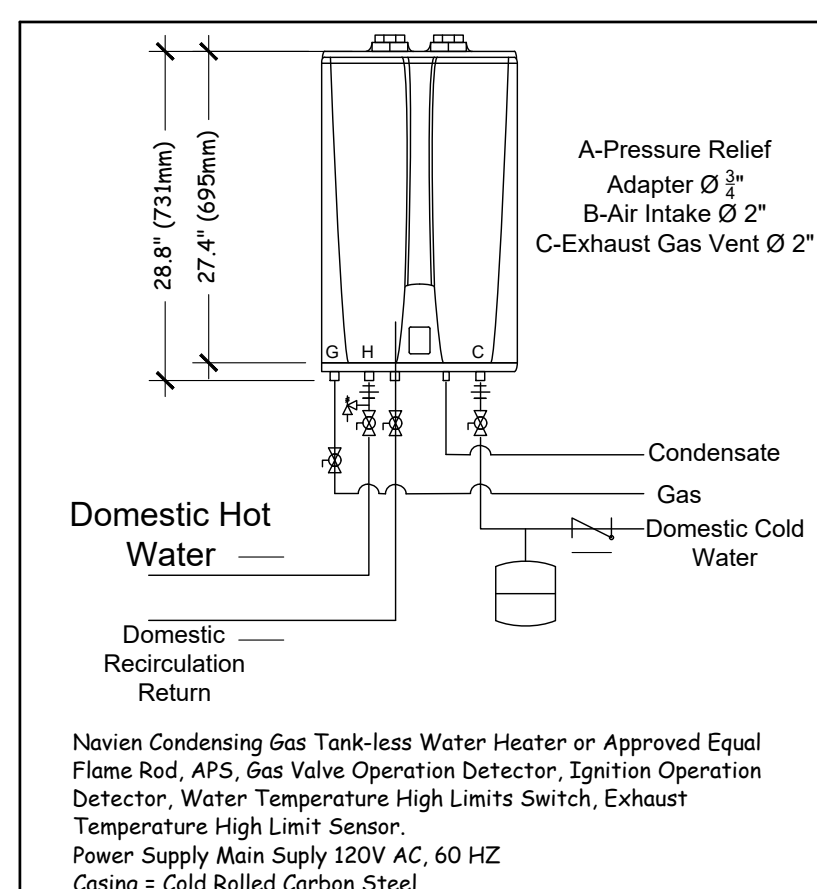
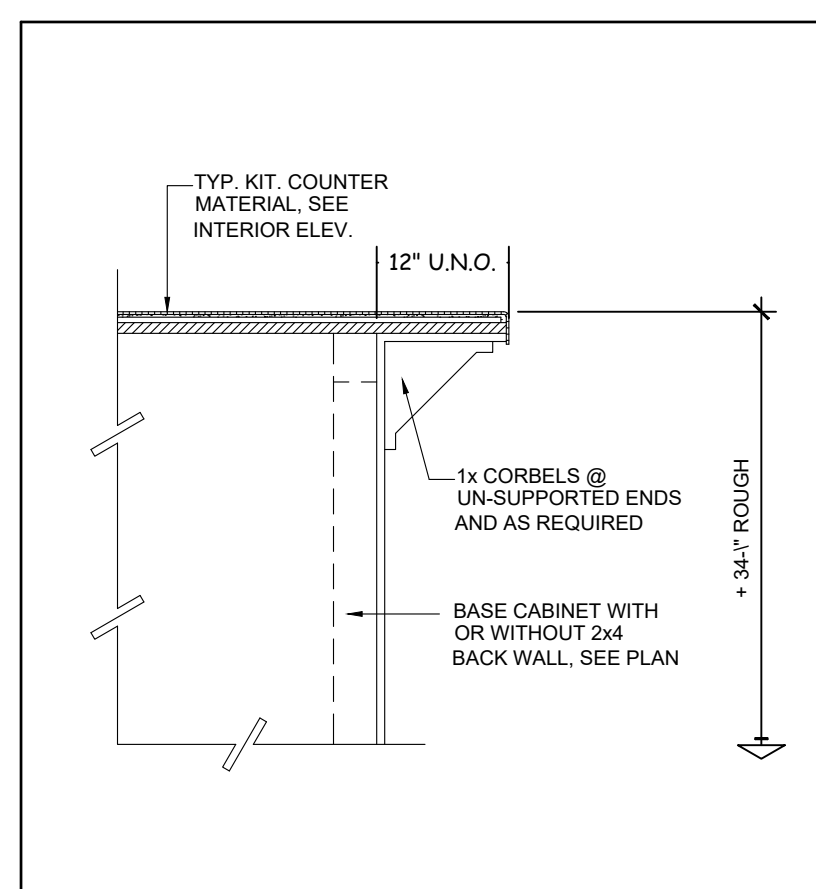
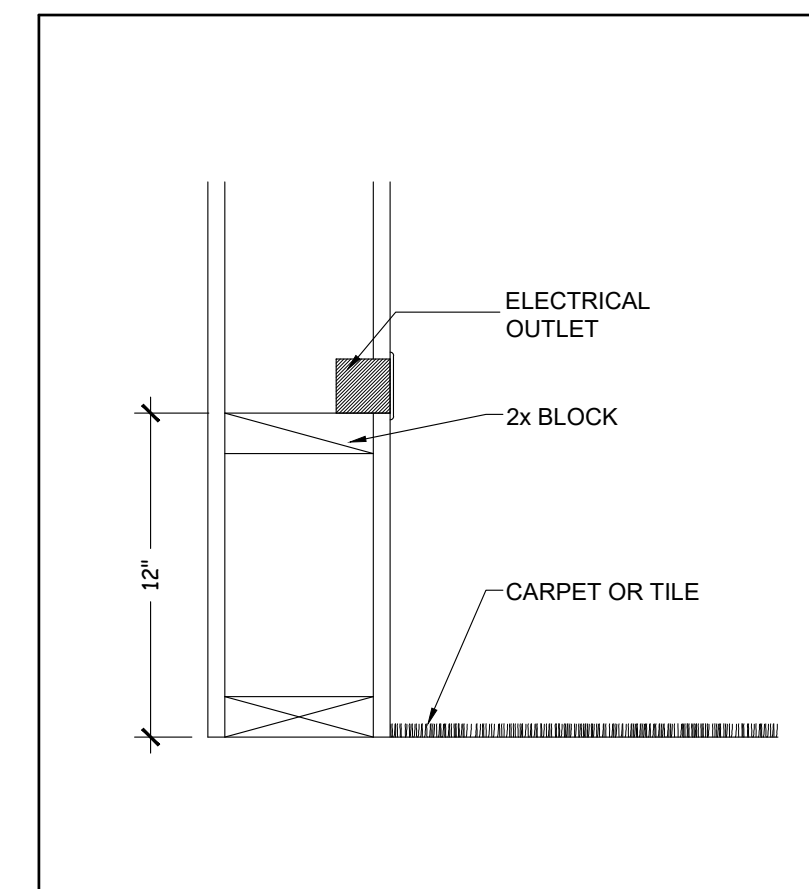
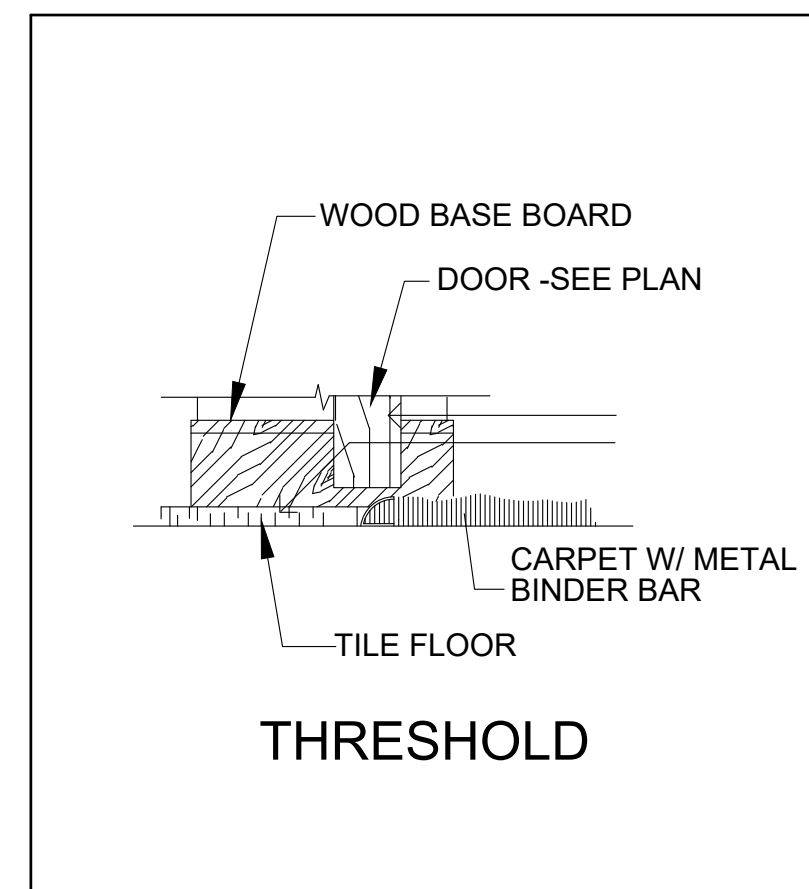
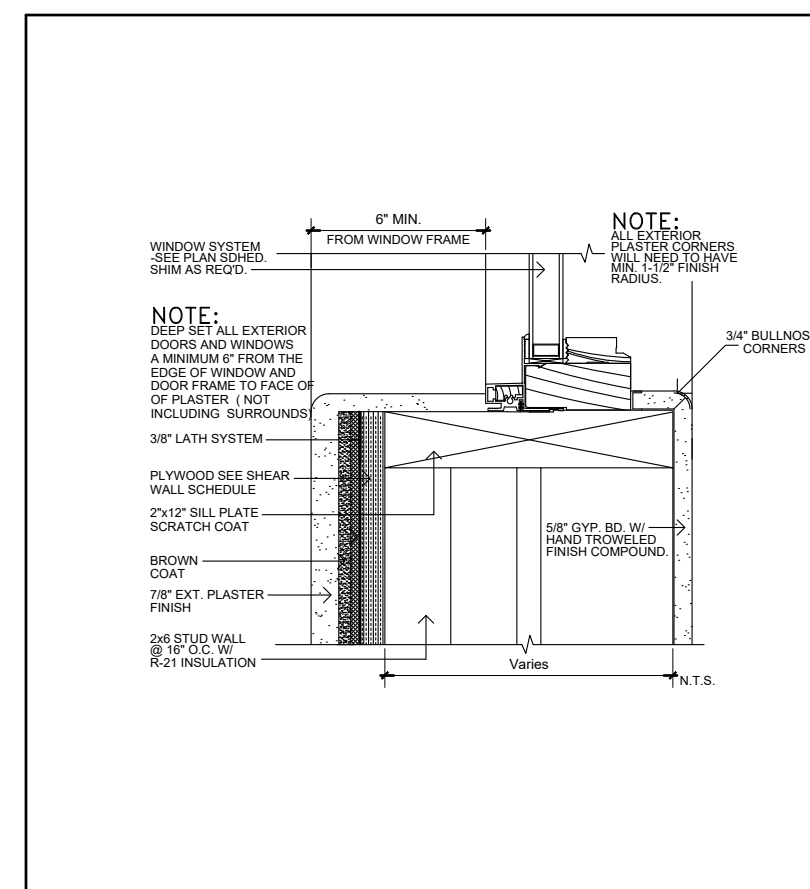
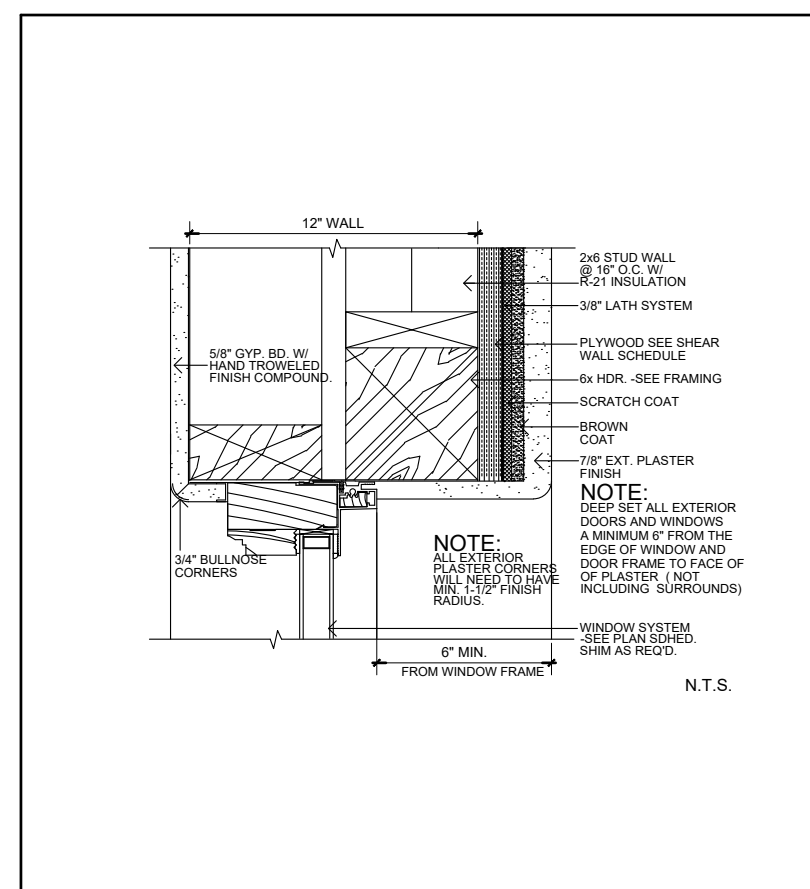
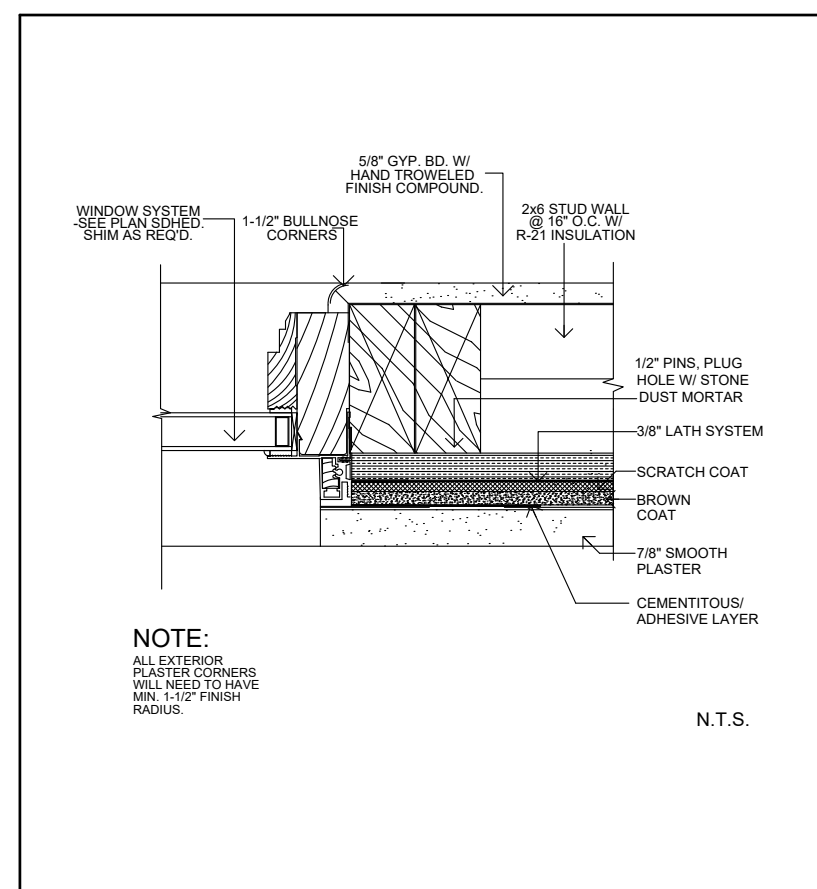
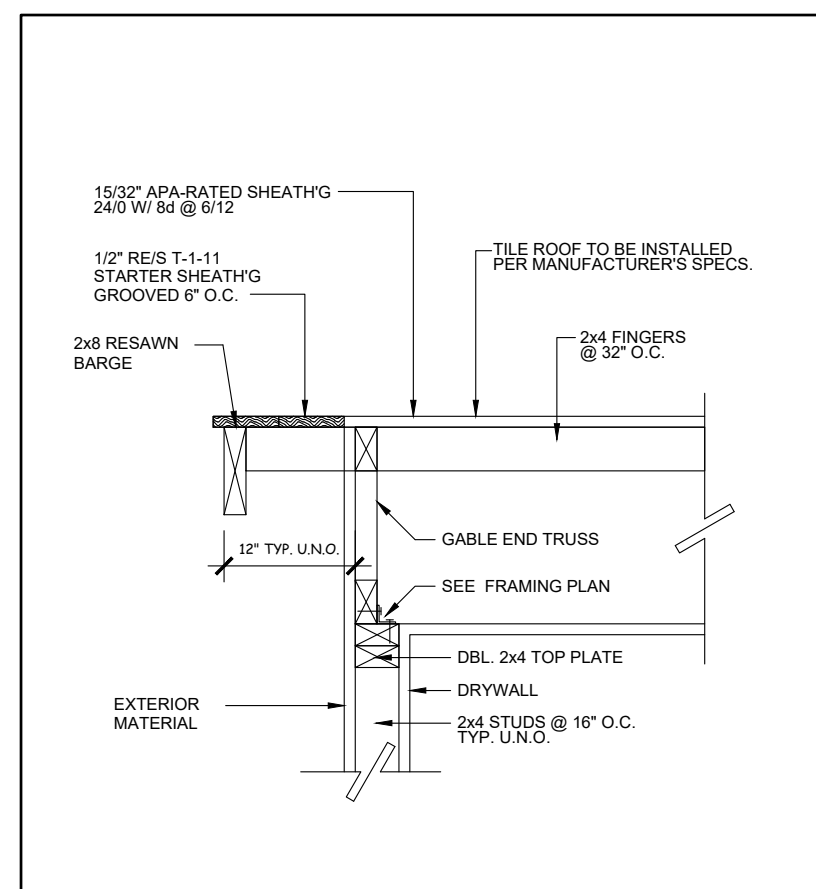
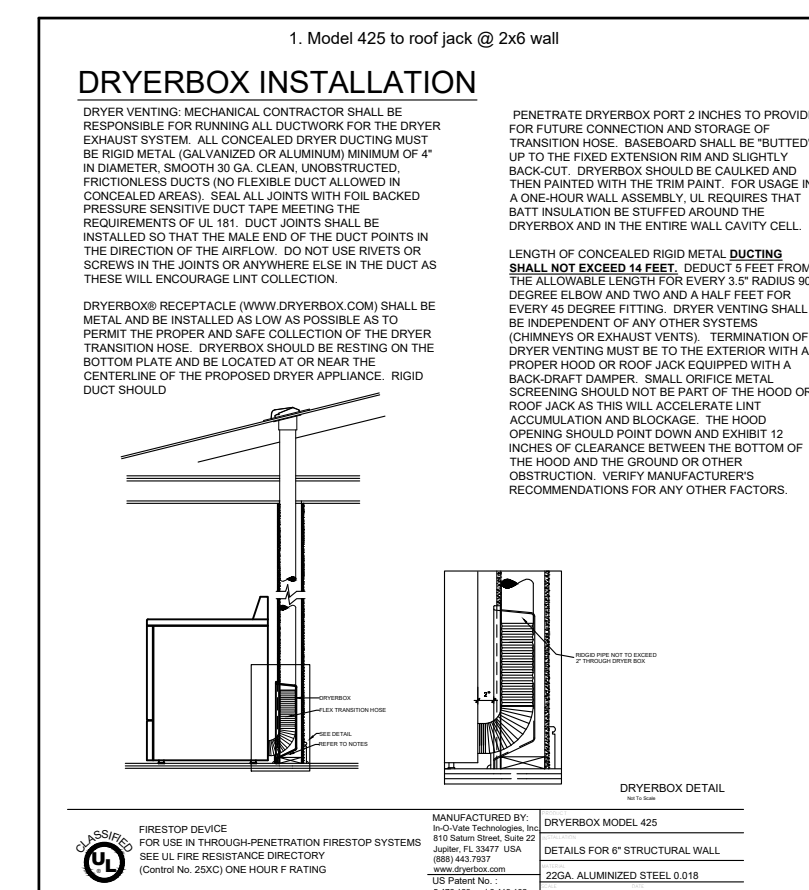
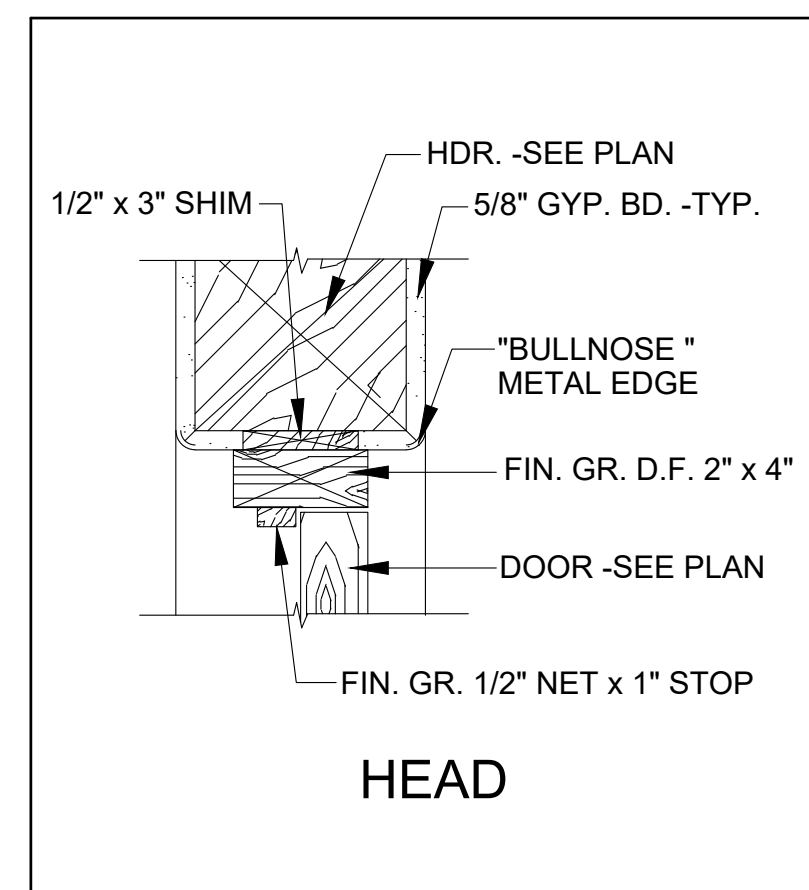
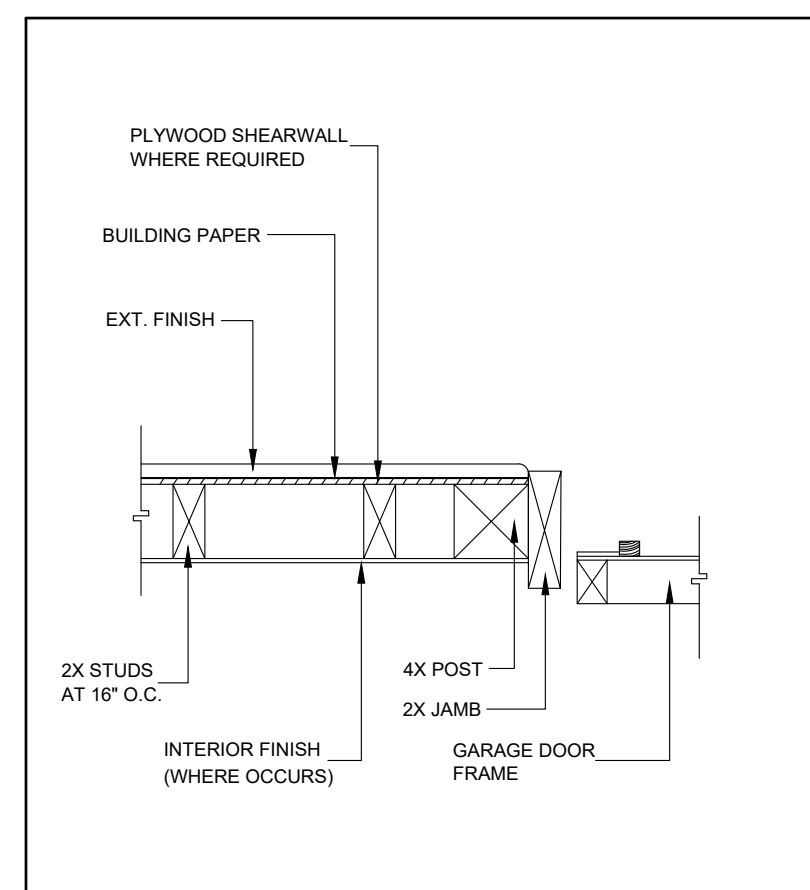
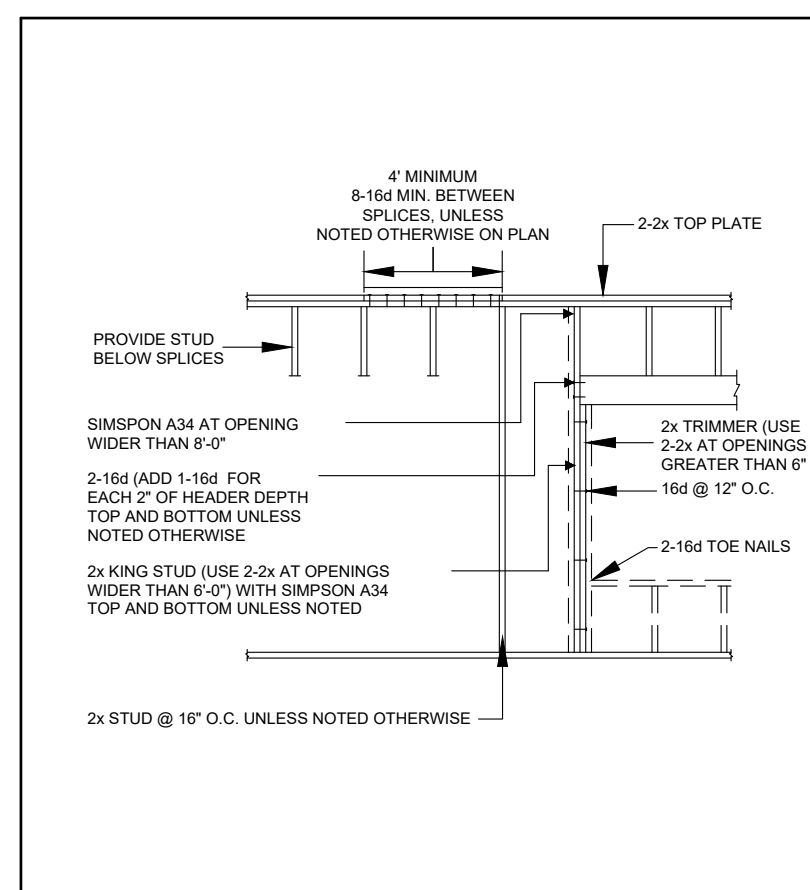
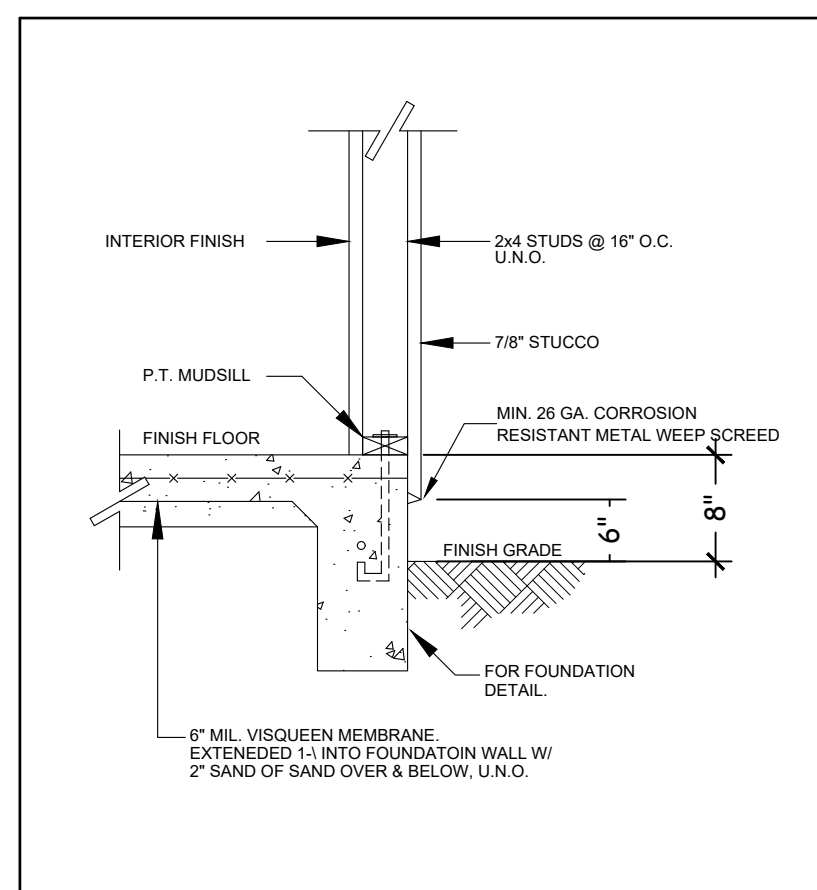
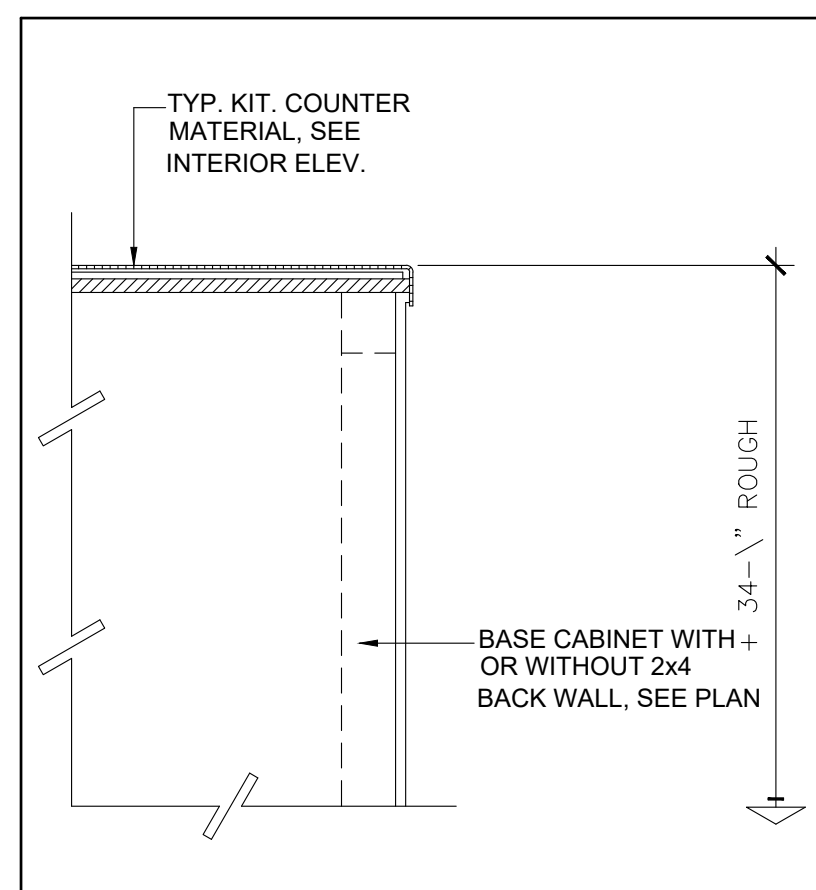
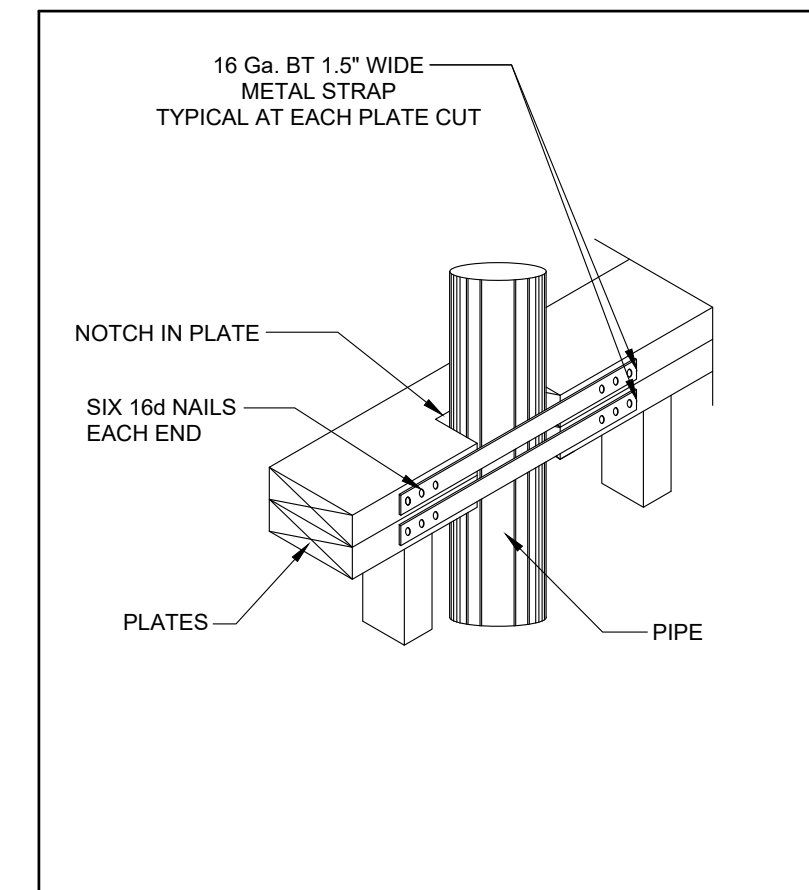
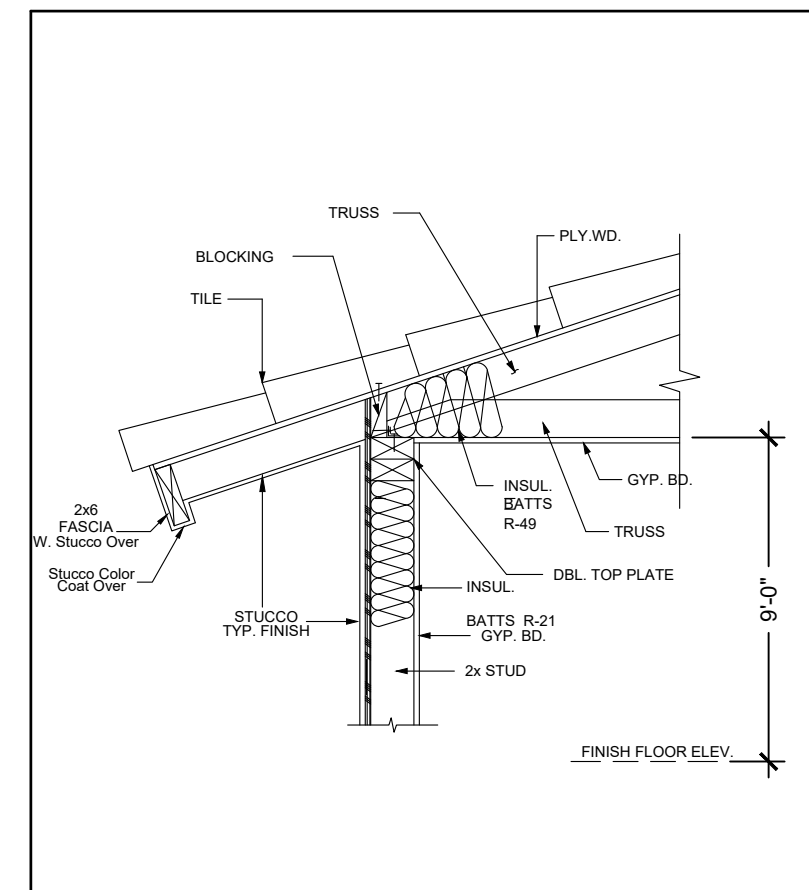
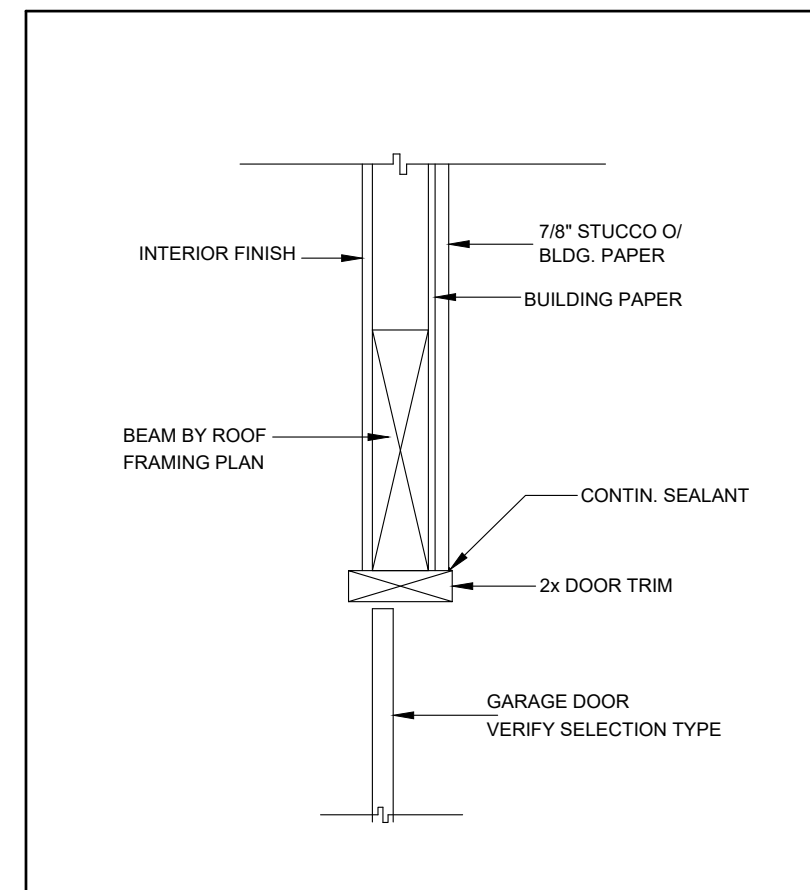
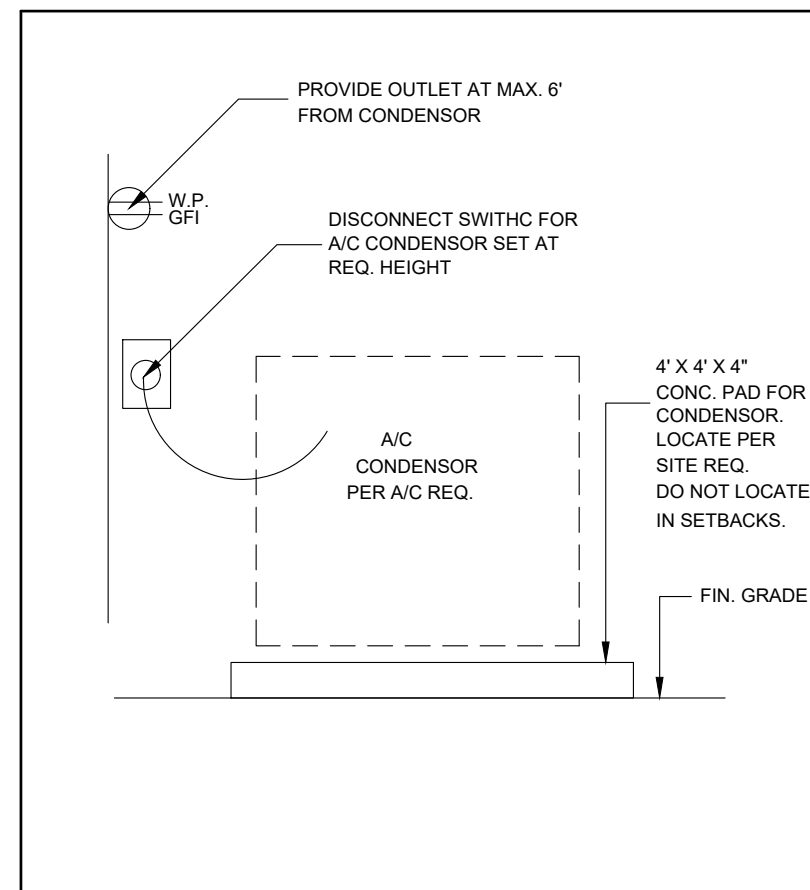
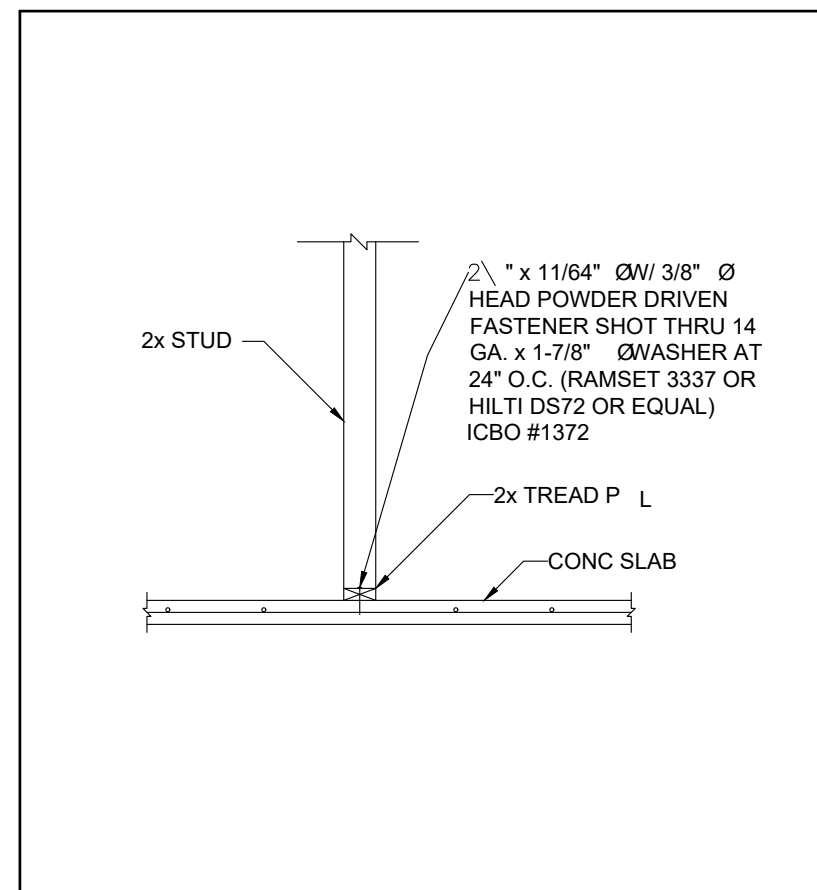
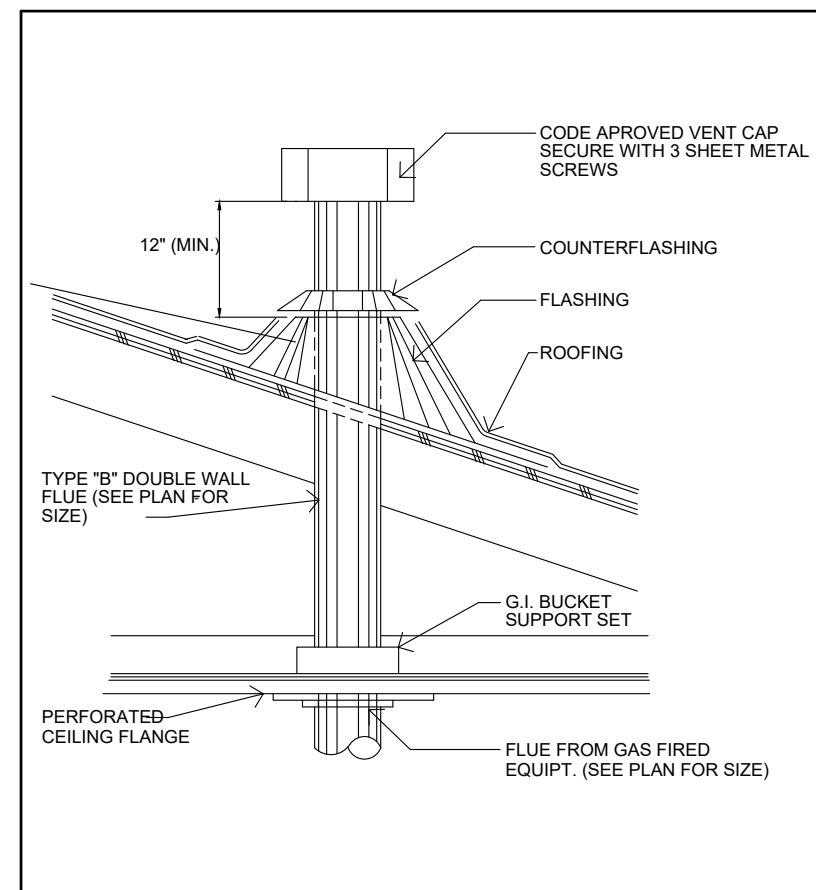
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Sign By:

Sheet Number:

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




Mike Mendoza
Design Principal


Rabell, Sharad &
73-900 Dinah Shore Drive
Suite 202
Palo Alto, CA 94321-1
Cell No. 1-47660, 275-11816

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Plan Check Revisions 	00-00-201



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P.O. Box 1313
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gilberto@smarthomesotd.com

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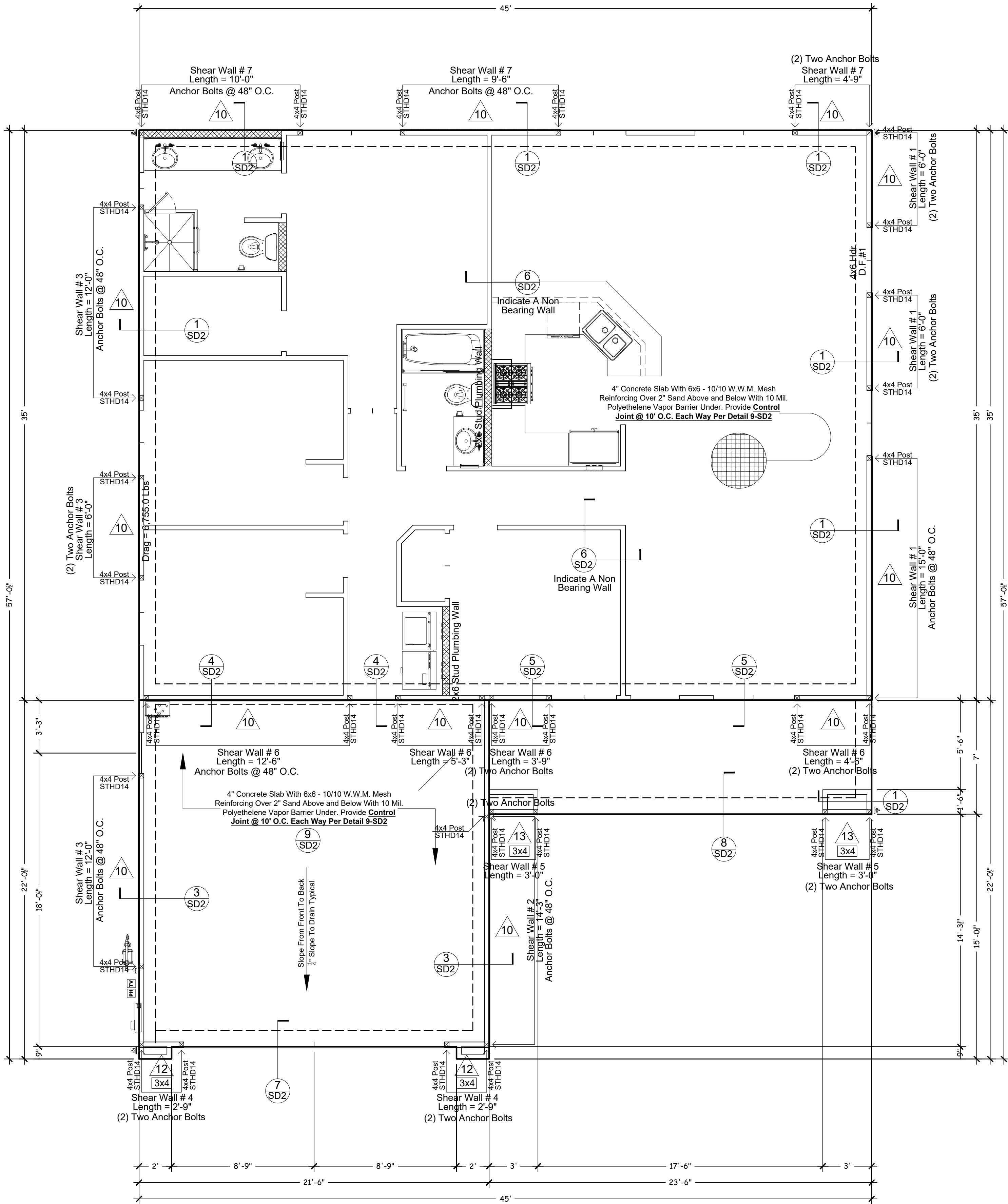
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Sheet Number:

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Scale: To Plot $1/4" = 1'-0"$



CONTINUOUS FOOTING

ONE STORY
12" WIDE x 12" DEEP CONTINUOUS FOOTING WITH 1 # 4 AT TOP
AND BOTTOM U.N.O.

SYMBOL & LEGENDS

- B1** Shear Wall Panel NUMBER AND MINIMUM LENGTH NOTED, REFER TO GENERAL NOTE SHEET FOR PANEL TYPE.
- WOOD POST OR 2-2x STUDS TYPICAL.
- 1** - DETAIL NUMBER
SD1 - DETAIL SHEET NUMBER
- 3x4 SILL PLATE** USE 3x6 OR 3x4 SILL PLATE AND 3x6 OR 3x4 MEMBER AT ADJOINING PANELS EDGE (WHERE TWO PANELS JOINED)
- INDICATE LOCATION OF PAD FOOTING, VERIFY DIMENSION ON PLAN

- Note:**
ANCHOR BOLT LOCATION AT 2X4 STUD SHEAR WALLS:
- Anchor Bolts shall be installed at sill plate closer to the shear panel side in order to maintain 0.5" Maximum distance between plate washer and shear panel per Detail 8/SD1
 - Reinforcing Steel or structural framework of any part of any building or structure shall not be covered or concealed without first obtaining the approval of the enforcing agency. R109.1.**
 - Any Retrofit-Epoxy Anchor or Rod Requires Special Inspection On Installation**
 - Hold Down Hardware must be secured in place prior to Foundation Inspection.**
 - Lots shall be graded to drain surface water away from the foundation walls. The grade shall fall a minimum of 6" within the first 10 Ft. (5% Slope). Where Lot Lines, Walls, Slopes or other physical barriers prohibit 6" of wall with in 10 Ft. Drains or Swales shall be constructed to ensure drainage away from the structure. (C.R.C R401.3). For Impervious surfaces with in 10 Ft. of the building foundation shall sloped a minimum of 2% away from the building.
 - Fasteners for Preservative Wood Use Nut & Washers of Anchor Bolts shall be Hot Dipped ZINC-COATED Galvanized Steel or Stainless Steel.

SHEAR WALL PANEL SCHEDULE (PER 2015 NDS SDPWS TABLE 4.3A)

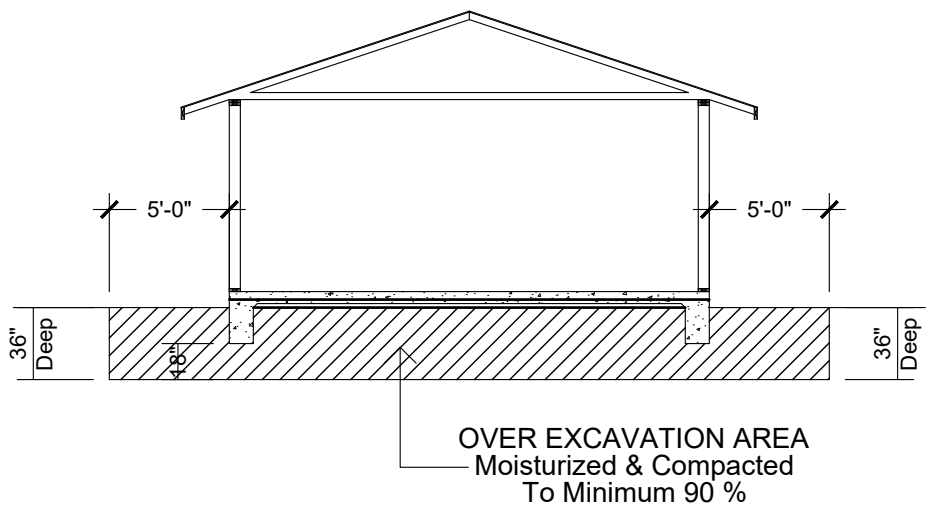
MARK	WALL TYPE & NAIL SPACING (common or galv. box) (USE 20% MORE NAILS IF SINKER NAILS ARE USED)	ALLOWABLE SHEAR, PLF	ANCHOR BOLTS (12" LONG OR 18" FOR 2-POUR)	UPPER FLOOR SILL NAILING
	3/8" CDX plywood or OSB w/8d nails @ 6" o.c. at edges and @ 12" o.c. in field see note #5 below	260	5/8" @ 4'	16d @ 6"
	3/8" CDX plywood or OSB w/8d nails @ 4" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	380 (*760)	5/8" @ 3' (*5/8" @ 1.5') <---IF DBL SIDED	16d @ 6" (*16d @ 3')
	3/8" CDX plywood or OSB w/8d nails @ 3" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	490 (*980)	5/8" @ 2.5' (*5/8" @ 1.25') <---IF DBL SIDED	16d @ 4" (*16d @ 2')
	3/8" CDX plywood or OSB w/8d nails @ 2" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	640 (*1280)	5/8" @ 1.5' (*5/8" @ 0.75') <---IF DBL SIDED	16d @ 3.5" (*2-16d @ 3.5')
	1/2" Str. I plywood w/10d nails @ 2" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	870 (*1740)	5/8" @ 1.25' (*5/8" @ 0.6') <---IF DBL SIDED	16d @ 2.5" (*2-16d @ 2.5')

Foundation Floor Plan

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

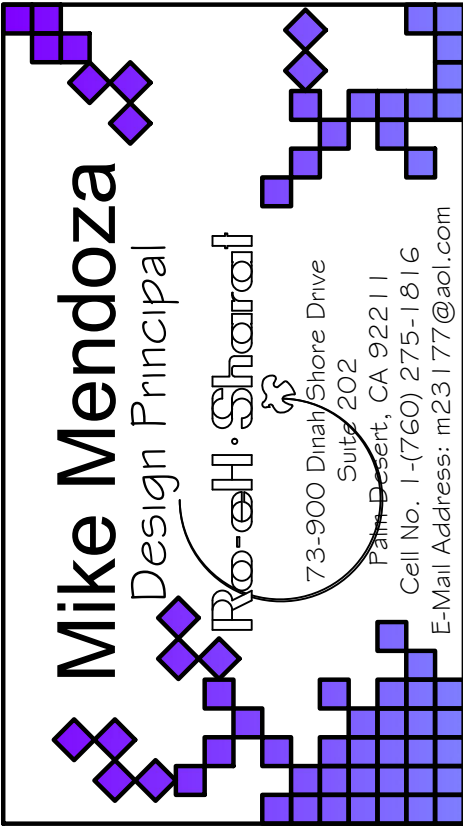
Grading Over Excavating Notes:

- In order to provide uniform foundation bearing conditions underneath the footing and to mitigate potential settlements, over-excavation should be performed throughout the building areas and 5 Feet Beyond.
- The Over-Excavation shall be done to a depth of at least 3' Feet Below Existing Grade or 18" Below Bottom of Footing, which ever is deeper.
- A compaction report at Pad itself only can not replace the Over-Excavation.
- If a Soils Report is provided, the over excavation shall follow the recommendations from the Soils Engineer Report.



ADDITIONAL NOTES FOUNDATION

- PROVIDE TERMITE TREATMENT OF SOILS PRIOR TO POURING CONCRETE.
- ALL STEM WALLS TO BE 6-INCHES WIDE (U.N.O.) AND SHALL HAVE THE SAME FINISH FLOOR ELEVATION AS MAIN FLOOR.
- VERIFY FOUNDATION TO BE INSTALLED AT EXISTING FINISH FLOOR ELEVATION.
- ALL COLUMN BASES, SOLUMN BOLTING, HOLDOWN, STRAPS AND ANCHOR BOLTS, CRITICAL TO THE STRUCTURE INTEGRITY OF THE BUILDING, SHALL BE HELD IN PLACE BY MEANS OF TEMPLATES PRIOR TO FOUNDATION INSPECTION.
- PROVIDE TREATED SILL PLATE OR VAPOR BARRIER UNDER ALL COLUMNS (PER BUILDING DEPARTMENT).
- ALL SHEAR WALL PANELS SHALL EXTEND FROM FOOTING TO BOTTOM OF ROOF DIAPHRAGM (INTERIOR AND EXTERIOR SHEAR WALLS).
- SURFACE WATER SHALL DRAIN AWAY FROM THE BUILDING. SEE RELATED DRAINAGE PATTERN AND KEY ELEVATIONS ON GRADING PLAN, IF APPLICABLE.
- VERIFY FOUNDATION TO BE MINIMUM 12" ABOVE THE STREET GUTTER OR POINT OF INLET OR APPROVED DRINAGE DEVICE. IF GRADING PLAN ENFORCED FOLLOW HIS CRITERIA OF DESIGN.
- PROVIDE SURVEY STAKES IN ALL (4) CORNERS OF THE LOT PRIOR TO FOUNDATION INSPECTION TO VERIFY PROPERTY LOT LINE.
- THE MINIMUM NOMINAL A.B. DIAMETER SHALL BE 5/8" DIA. THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES AND ENDS OF SHEAR PANELS TO BE 4-3/8" AND A MAXIMUM OF 12".
- STEEL PLATE WASHERS (MINIMUM SIZE 3"x3"x0.229") MUST BE USED IN ALL A.B.
- USE 5/8"x12" LONG A.B. AT 6'-0" O.C. UNLESS AT BRACED WALL PANEL AREA WHERE A.B. SIZE AND SPACING SHALL BE BASED ON THE SCHEDULE TABLE ON PLANS.
- USE 5/8"x18" LONG ANCHOR BOLTS FOR 2-POUR CONCRETE, IN ORDER TO PROVIDE A 7-INCHES EMBEDMENT BELOW COLD JOINT.
- ALL SHEAR PANELS TO HAVE A MINIMUM OF THREE (2) ANCHOR BOLTS.
- ALL HOLDOWN DEVICES SHOULD BE IN PLACE PRIOR TO FOUNDATION INSPECTION.



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Foundation Plan & General Notes

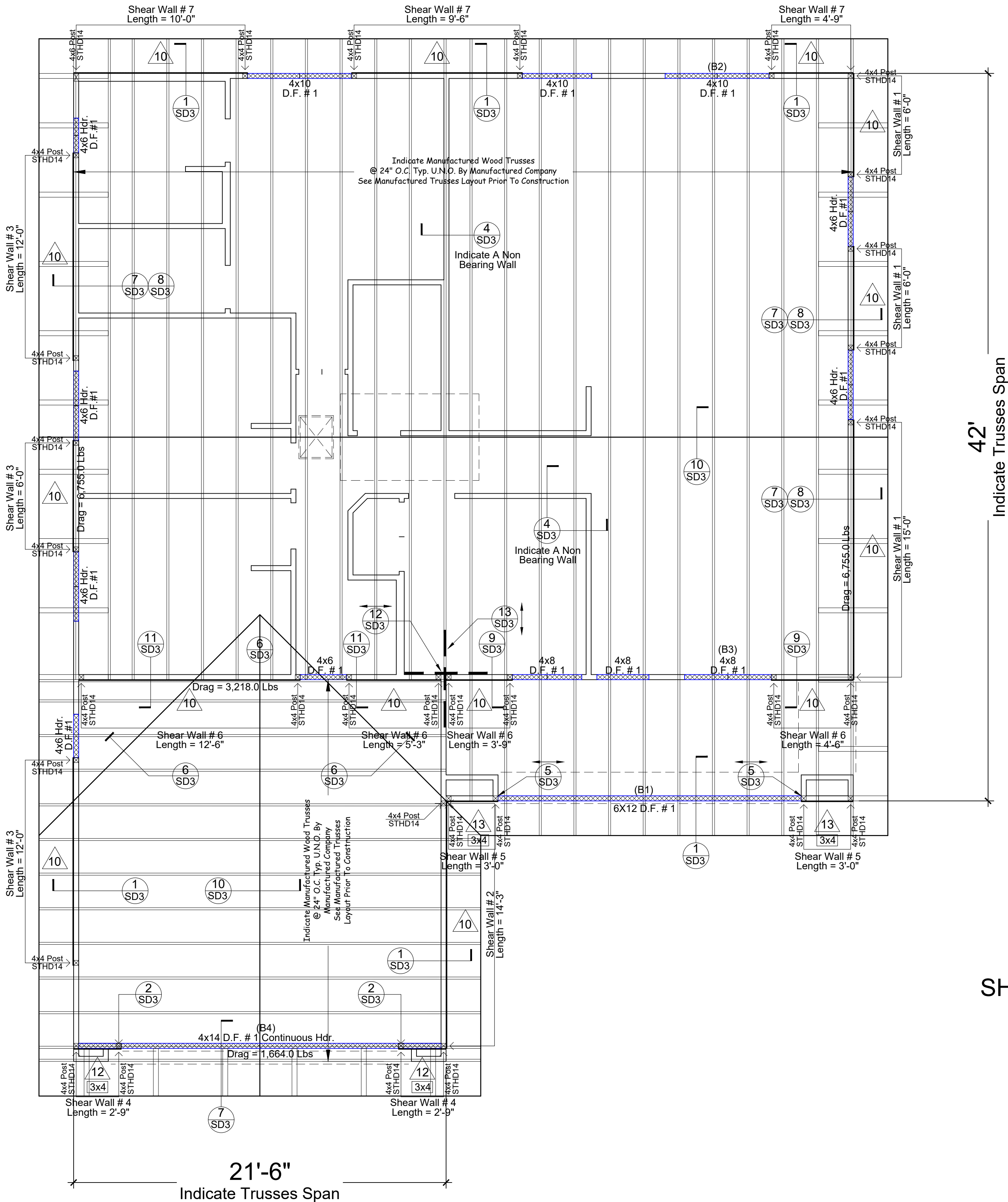
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Drawn By: Mike Mendoza
Sign By:

Sheet Number:

S1.01

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





ROOF MATERIAL

Concrete Roof Tile shall be Eagle Class 'A' Concrete Roofs I.C.C. Report # ESR-1900
Over (2) Layers Type 30 Underlayment, Install Per Manufacturer's specifications
Weight = 10 PSF
Roof Pitch: See Plan
Tile Roof Assembly shall be Class 'A' Minimum, C.B.C. 1506 & 1507
Note:
Minimum Tile nailing shall comply with the following:
1. 11 GA. Corrosion-Resistant 3/4" onto roof sheathing
2. The heads of all tiles shall be nailed
3. the noses of all course tiles shall be fastened with approved clips
4. All rake tiles shall be nailed with (2) nails
5. The nose of all Ridge, Hip, and Rake tiles shall be set in a bead of approved
roofer's mastic.

1. TRUSSES LOADING-ROOF:			
Live Load		20.00 PSF	
Dead Load	Roof Cover	10.00 PSF	
	1/2" Roof Sht'g.	1.50 PSF	
	Roof Framing	3.50 PSF	
	1/2" Drywall Clg.	2.00 PSF	
	Miscellaneous	2.00 PSF	
Dead Load Total:		19.00 PSF	
Total Load:		39.00 PSF	

2. ROOF TRUSSES ON CENTER SPACING: 24" O.C.
3. OVERHANG TYPICAL 24" O.C.

Note:

Alterations to trusses, Truss members and com-ponents shall not be cut, notched, drilled, spliced or otherwise altered in any way without written concurrence and approval of a registered design professional Alterations resulting in the addition of loads to any member (e.g., HV AC equipment, piping, additional roofing or insulation, etc.) shall not be permitted without verification that the truss is capable of supporting such additional loading. C.B.C. 2303.4.5

Gravity Load:
Roof Live Load = 20 PSF
Roof Dead Load = 19 PSF
Pitch = 4 : 12

Seismic Design Value:
Equivalent Lateral Force Procedure ASCE 7-10
Seismic Design Category = E
Site Class = D
Occupancy Category = II
Importance Factor = 1.0
Response Modification Factor = 6.50
System Over strength Factor = 3.0
Site Coefficient Fa = 1.0
Mapped Spectral Acceleration Ss = 2.588 g
Adjusted Spectral Acceleration S1 = 0.954 g
Sms = 2.588 g
Sm1 = 1.431 g
Design Spectral Response Acceleration Sps = 1.725 g
Seismic Base Shear (ASD) S01 = 0.954 g = 0.246 W

Wind Design Value:
Simplified Method ASCE 7 - 10
Wind Speed = 130 MPH
Exposure = C
Wind Load (ASD) = 26.1 PSF

ROOF DIAPHRAGM
USE: 15/32" APA Rated Sheathing, or O.S.B. unblocking diaphragm, exterior grade, index 24/0, w/ 8 d. nails @ 6" o.c. at edges and boundaries, @ 12" o.c. in field

- ADDITIONAL NOTES FRAMING**
01. SHEAR PANEL SHEATHING AT GABLE ENDS WILL EXTEND TO ROOF DIAPHRAGM.
 02. PROVIDE (2) LAYERS OF GRADE 'D' PAPER OVER ALL WOOD BASED SHEATHING.
 03. ALL SHEAR WALL PANELS SHALL BE SHEATHED FROM FOOTING TO BOTTOM PART OF THE ROOF DIAPHRAGM.
 04. SPECIFY 1/2" CLEARANCE FROM BOTTOM OF TRUSS AT NON-BEARING WALL.
 05. ALL SIDES OF COVERED PATIO COLUMN TO BE SHEATHED FROM FOOTING TO BOTTOM OF ROOF DIAPHRAGM.
 06. A SHEAR WALL PANEL INSPECTION IS REQUIRED PRIOR TO CONCEALMENT. CALL FOR INSPECTION WHEN ALL BRACES, NAILING, HOLDDOWNS, TIES, ANCHORS AND CLIPS ARE INSTALLED PER APPROVED CONSTRUCTION PLANS.
 07. FRAMING COMPLIANCE WITH CHAPTER 23 C.B.C. SHEAR WALL LINES SHALL CONSIST OF SHEAR WALL PANELS WHICH MEET REQUIREMENTS FOR LOCATION, TYPE AND AMOUNT OF BRACING SPECIFIED IN TABLE 23-IV-B.
 08. ALL SHEAR NAILING SHALL BE DONE WITH COMMON NAILS.
 09. PENETRATIONS OR OPENINGS IN CONSTRUCTION ASSEMBLING FOR PIPING OF ELECTRICAL DEVICES, RECESSED CABINETS, SOFFITS, OR HEATING, VENTILATING AND EXHAUSTING DUCTS, SHALL BE SEALED, LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED RATINGS.
 10. PROVIDE RADIANT BARRIER ON GABLE ENDS AT ATTIC PER 2013 ENERGY REGULATIONS.

FRAMING

01. NAILING SHALL BE IN COMPLIANCE WITH C.B.C. CHAPTER 23. RETIGHTEN ANY BOLTS PRIOR TO APPLICATION OF SHEATHING, PLASTER, ETC.
02. EACH SHEET OF PLYWOODSHALL BE IDENTIFIED BY REGISTERED STAMP OR BRAND OF THE DOUGLAS FIR PLYWOOD ASSOCIATION.
03. PLYWOOD SHEATHING SHALL CONFORM TO THE REQUIREMENT OF THE LATEST EDITION OF U.S. PRODUCTS STANDARD PS-1 AND SHALL BE GRADE MARKEDIN ACCORDANCE WITH A.P.A. PLYWOOD FOR ROOF SHEATHING SHALL BE CDX OR OSB. USE EXTERIOR TYPE, MINIMUM C-C GRADE WHERE PLYWOOD IS EXPOSED TO WEATHER. ALL PLYWOOD SHALL BE GLUED WITH EXTERIOR TYPE GLUE.
04. ALL WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR # 1 OR REDWOOD.
05. CROSS BRIDGING SHALL BE PROVIDED AT 8'-0" O.C. MAXIMUM FOR ALL JOIST AND RAFTERS (MORE THAN 8" DEEP). WOOD STUDS MAY BE NOTCHED A DEPTH OF 25 % OF WITH MAXIMUM.
06. PROVIDE FIRE STOPS AT THE FOLLOWING LOCATIONS, PER SECTION 708.2.1:
 - * A. IN CONCEALED SPACES OF STUD WALL AND PARTITIONS, INCLUDING FURRED SPACES AT THE CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH OF THE WALL.
 - * B. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES, SUCH AS OCCUR AT SOFFITS, DROP CEILING OR COVE CEILINGS.
 - * C. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH CAN AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS WITH NON-COMBUSTIBLE MATERIAL.
07. STUCCO, LATH AND DRYWALL SHALL BE NAILED TO STUDS AND TOP AND BOTTOM PLATES.
08. PROVIDE SOLID BLOCKING UNDER ALL SECOND FLOOR SHEAR WALL.
09. DOUBLE STUDS OR JOISTS SHALL BE NAILED TOGETHER WITH 16d NAILS AT 12" O.C.
10. REFER TO STRUCTURAL GENERAL NOTES SHEET FOR MORE INFORMATION.

SYMBOL & LEGENDS

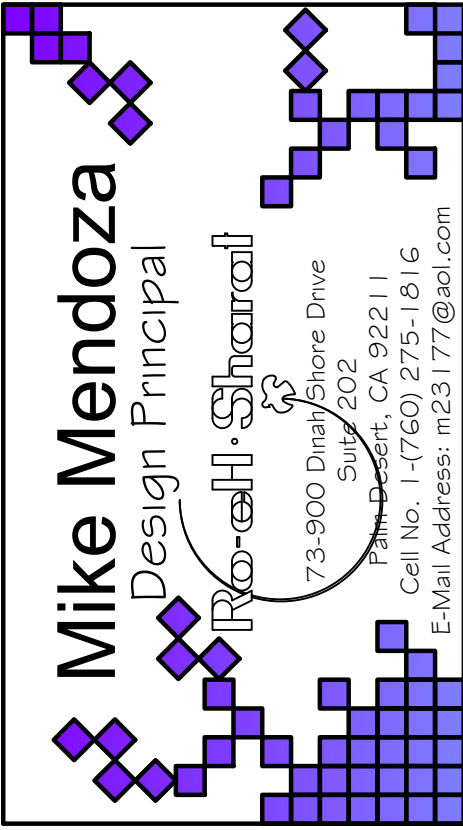
- △ B1 SHEAR WALL PANEL NUMBER AND MINIMUM LENGTH NOTED REFER TO GENERAL NOTE SHEET FOR PANEL TYPE.
- ⊞ WOOD POST OR 2-2x STUDS TYPICAL.
- 1- DETAIL NUMBER
SD1- DETAIL SHEET NUMBER
- 3x4 SILL PLATE USE 3x4 OR 3x4 SILL PLATE AND 3x6 OR 3x4 MEMBER AT ADJOINING PANELS EDGE (WHERE TWO PANELS JOINED)
- 2x6 Stud Plumbing Wall, Wood studs @ 16" O.C. with Sound Batt Insulation with (1) One layer of 1/2" Gypsum Board on EA. inside

SHEAR WALL PANEL SCHEDULE (PER 2015 NDS SDPWS TABLE 4.3A)

MARK	WALL TYPE & NAIL SPACING (common or galv. box) (USE 20% MORE NAILS IF SINKER NAILS ARE USED)	ALLOWABLE SHEAR, PLF	ANCHOR BOLTS (12" LONG OR 18" FOR 2-POUR)	UPPER FLOOR SILL NAILING
△10	3/8" CDX plywood or OSB w/8d nails @ 6" o.c. at edges and @ 12" o.c. in field see note #5 below	260	5/8" @ 4'	16d @ 6"
△11	3/8" CDX plywood or OSB w/8d nails @ 4" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	380 (*760)	5/8" @ 3' (*5/8" @ 1.5') <---IF DBL SIDED	16d @ 6" (*16d @ 3')
△12	3/8" CDX plywood or OSB w/8d nails @ 3" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	490 (*980)	5/8" @ 2.5' (*5/8" @ 1.25') <---IF DBL SIDED	16d @ 4" (*16d @ 2')
△13	3/8" CDX plywood or OSB w/8d nails @ 2" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	640 (*1280)	5/8" @ 1.5' (*5/8" @ 0.75') <---IF DBL SIDED	16d @ 3.5" (*2-16d @ 3.5')
△14	1/2" Str. I plywood w/10d nails @ 2" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	870 (*1740)	5/8" @ 1.25' (*5/8" @ 0.6') <---IF DBL SIDED	16d @ 2.5" (*2-16d @ 2.5')

Roof Framing Plan

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



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Revisions	Date
Plan Check Revisions △	00-00-2018



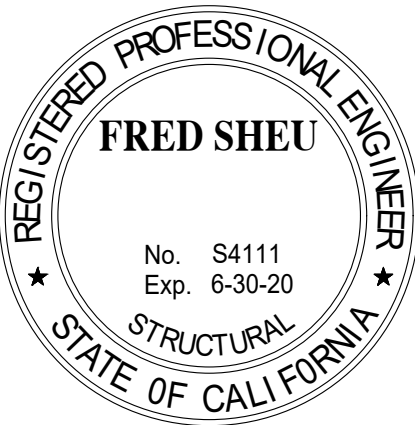
Owner Name:
SMART HOME OF THE DESERT, INC.
Phone No. 1-(760) 999-0999
P.O. Box 1313
Desert Hot Springs, CA 92240
gilberto@smarthomesold.com

Job Address:
Lot No. 271 Cuyamaca Drive
Desert Hot Springs, CA 92240

Sheet Name:
Roof Framing Plan & General Notes

Date: OCTOBER-2018
Drawn By: Mike Mendoza
Sign By:

Sheet Number:
S1.02
Scale: 1/4" = 1'-0"



GENERAL NOTES

1. All construction workmanship and materials shall conform to the 2016 edition of California Building Code except where more stringent requirements are noted or shown on the plans.
2. The plans shall be reviewed for dimensional & existing site conformance with the plans by the contractor before starting work. The architect & engineer shall be notified of any discrepancies.
3. Working dimensions shall not be scaled from drawings.
4. Notes and details on drawings shall precede these general notes.
5. The design, adequacy and safety of erection, bracing, shoring, temporary supports, etc., is the sole responsibility of the contractor, and has not been considered by the structural engineer. The contractor is responsible for the stability of the structure during the entire course of construction. The engineer shall not be held responsible for field inspection/observation of the above item.
6. Allowable soil bearing pressure to be a minimum of 1,500 psf unless a soil report is provided. Soils in the building area & 5 feet beyond shall be compacted to a minimum of 90% relative compaction per C.B.C.
7. At the beginning of each job the contractor shall meet with the local building official to confirm inspection requirement of the local jurisdiction.

FOUNDATION NOTES

1. All subgrade preparation for bearing, fill material, and pavement/slab base shall be inspected by a representative of the soil engineer, and local building inspector, if required, prior to the placing of concrete.
2. The minimum bolting for sill plates to foundation shall be 5/8" diameter anchor bolts with 7" min. embedment in concrete with spacing no greater than 6" o.c. or further than 12" from corners (min. 2 bolts per pier). See foundation plan and shear schedule for further bolting requirements.
3. Plate washers a minimum of 3 inch by 3 inch by 0.229 inch thick shall be used on each anchor bolt.
4. Slab on grade: minimum 4 inch concrete slab with 6x6=10/10 W.W.M. @ center of slab thickness over 4 inch of sand with 10 mil visqueen vapor barrier in the middle of the sand on the compacted native soil.
5. Pipe or ducts that exceed one third the slab or concrete wall thickness shall not be placed in structural concrete unless specifically detailed.
6. For sill bolting at existing footings use Epoxy bolt, the same size & spacing as called for on plans.
7. Dowel new into existing slabs w/ #4 rebar @ 24" o.c. and footings w/ dowels to match new reinforcement size/location.

CONCRETE NOTES

1. Unless otherwise noted on plans concrete shall have a minimum compressive strength of 2500 psi in 28 days.
2. Cement shall conform to ASTM C-150.
3. Aggregate shall conform to ASTM C-33.
4. Corners of slab, beams, walls and columns shall be formed with a 3/4" chamfer unless noted otherwise on plans.
5. For floor slab, provide 1" deep saw cuts or construction joints at a maximum of 10 feet o.c. each way, in square pattern, U.N.O.

REINFORCING STEEL NOTES

1. Reinforcing steel shall conform to the ASTM A615, graded as noted:
All #4 bars - Grade 40
#5 and larger - Grade 60
2. All reinforcing steel, anchor bolts, and other inserts shall be secured in place prior to placing concrete or grouting of masonry.
3. Reinforcing steel may be lap spliced with 50 bar diameter in masonry or 40 bar diameter in concrete with min. 18" lap.
4. Provide the following minimum concrete cover:
Surface cast against earth - 3"
Exposed to earth or weather - 2"
Not exposed to weather or earth - 1"
Beam and column - 1.5"
Slab on grade - mid depth
5. Number 5 or larger reinforcing bars shall not be re-bent.
6. Provide dowels in footings and/or grade beams the same size and number as vertical wall or column reinforcing. Dowels shall have a minimum projection equal to standard lap splice unless noted otherwise.

LUMBER NOTES

1. All lumber shall be Douglas Fir-Larch visually graded per WCLIB/WWPA grading rules unless noted otherwise on plans:
2x joists & rafter - No. 2
4x, 6x & larger beams - No. 1
plates, blocking & studs - Stud grade
2. Glued-laminated timber shall be Douglas Fir combination 24F-V4 DF/DF, industrial appearance with exterior glue. (Fb=2400 psi, Fv=165 psi, E=1800000 psi) An A.I.T.C. Certificate of Compliance for glued laminated wood member shall be given to the building inspector prior to installation. ICC-ES ESR-1940
(*) Use V8 for cantilever beams and V4 for simple span beam.
3. Parallam beam shall be Truss Joist - MacMillan, 2.0E Parallam PSL.
Microlam beam shall be Truss Joist - MacMillan, 1.9E Microlam ULV.
ICC-ES ESR-1387
4. Wood structural panel shall comply with DOC PS1 or PS2. Each panel shall be identified for grade and glue type by the trademarks of an approved testing and grading agency.
5. All sills and plates resting on concrete or masonry and within 8" of earth shall be preservative treated lumber. Preservative treated lumber shall conform to the requirements of the applicable AWPA Standard U1 and M4 for the species, product, preservative and end use. Preservative shall be listed in Section 4 of AWPA U1.
6. All nails shall be common nails. Box nails are not acceptable unless noted otherwise on plans.
7. Fasteners for preservative-treated or fire-retardant wood shall be of hot dipped zinc-coated galvanized steel or stainless steel.

WOOD FRAMING NOTES

1. Framing shall comply with Chapter 23 of the latest California Building Code.
2. All connecting hardware, joist hangers, tie straps, etc. shall be Simpson Strong-Tie unless noted otherwise on plans.
3. Unless noted otherwise on plans, all posts shall have Simpson PC OR CQO connectors at top and CB or CBSQ connectors at bases.
4. Use Simpson U- hangers on all joist/beam connections unless noted otherwise on plans.
5. All bolts bearing on wood shall have washers under head or nut. Holes for bolts shall be bored 1/32" to 1/16" larger than nominal bolt diameter.

ROOF FRAMING NOTES

1. Roof sheathing: minimum 15/32" APA rated plywood or OSB panel index 24/0 with exterior glue. Use 8d nails at 6" o.c. at all edges, boundaries and shear walls and 12" o.c. in field. No blocking is required unless noted otherwise on plans.
2. Framing around openings, trimmer and header joists shall be doubled and supported by hangers per code.
3. Ceiling joists per CBC Table 2308.10.2 with L/240 deflection limits:
2x4 @ 18" o.c. - max span = 17'-8" (without storage) 8'-9" (limited storage)
2x6 @ 18" o.c. - max span = 17'-8" (without storage) 12'-10" (limited storage)
2x8 @ 16" o.c. - max span = 23'-0" (without storage) 16'-3" (limited storage)

WALL FRAMING NOTES

1. Unless otherwise noted on plans, wood studs shall follow Table 2308.9.1 for size, height and spacing. Otherwise, wood studs should be designed for wind load plus dead load by engineer.
2. Rake walls adjacent to sloped ceilings shall be balloon framed. Double top plates shall always be supported by a roof or ceiling diaphragm.
3. Shear wall panel must be continuous to the roof diaphragm. Sheathing shall have all edges blocked & appropriate shear transfer thru ceiling or soffit framing.
4. Double top plate shall be lapped min. 48" at all splices and shall overlap at corners.
5. Boring and notching of wall studs shall be as follows:
Notching maximum: 25% of width on bearing walls
40% of width on non-bearing walls
Boring maximum: 40% of width on bearing walls
60% of width on non-bearing walls
Note: A min. of 5/8" clearance from edge of stud to hole shall be provided

JOISTS/RAFTERS FRAMING NOTES

1. Boring and notching of joists:
Boring - Max. diameter of hole shall not exceed 1/3 of dressed depth of joist with min. edge clearance of 2 inches.
Notching - Max. depth at ends shall not exceed 1/4 of dressed depth. No notching is allowed in the center third of the joist span. Notching in other locations shall be in the compression side with a max. depth of 1/6 of the joist depth.
2. Where three or more joists are used the joists shall be bolted together with 1/2" diameter machine bolts w/washers at 24" o.c. staggered. Bolts shall be retightened prior to applying finish materials.
3. Joists/rafters shall lap at splices a min. of 4 inches with 3-16d nails.
4. Cross bridging or 2x blocking shall be provided @ 8'-0" o.c.max. for all joists and rafters more than 8" in depth.
5. 2x solid blocking shall be placed between joists or rafters at all supports.

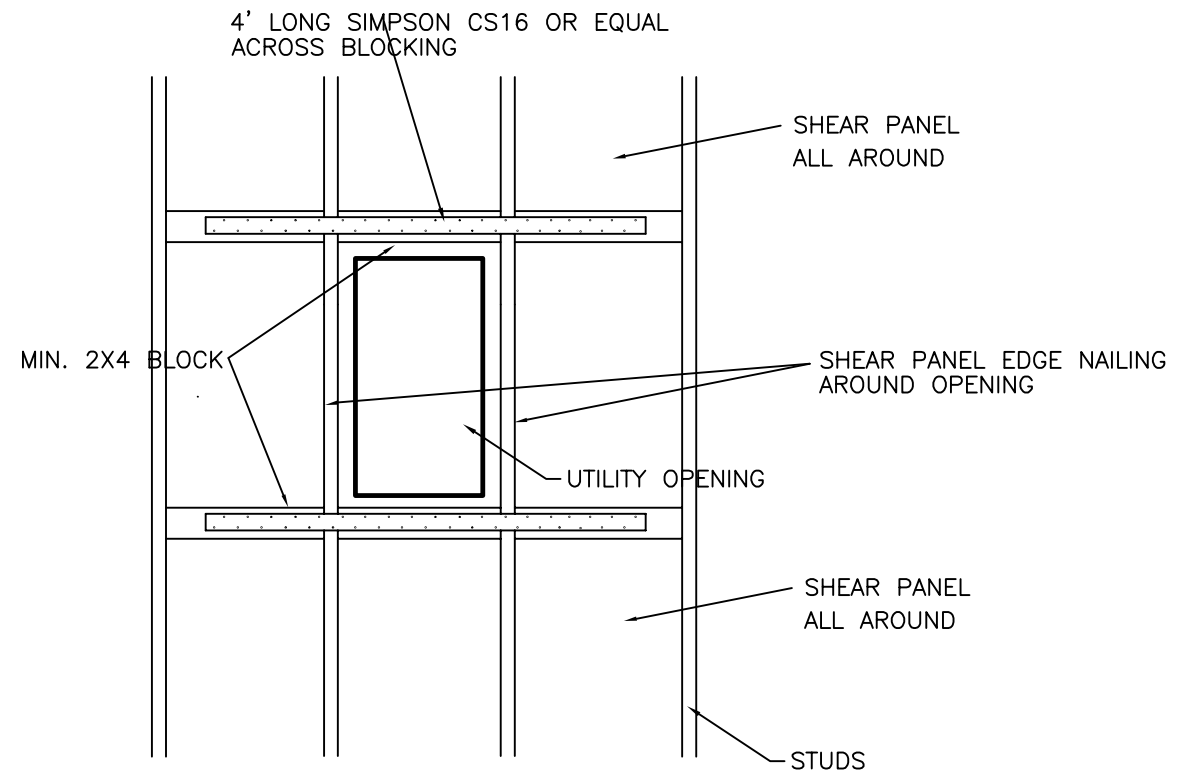
ROOF/FLOOR TRUSS NOTES

1. A complete set of truss calculations, shop drawings, prepared and signed by a California registered Engineer shall be submitted to the E.O.R. and Building Official for approval prior to fabrication. Each truss shall be legibly branded, marked or otherwise have permanently affixed thereto the following information located within 2 feet of the center of the span on the face of the bottom chord:
a) Identity of the company manufacturing the truss. b) The design load. c) The spacing of the trusses.
2. Truss manufacturer shall provide and design hangers and web blocking as required.
3. The Architect shall notify truss manufacturer for any modification. The structural engineer is not responsible for the truss design and modification during construction.

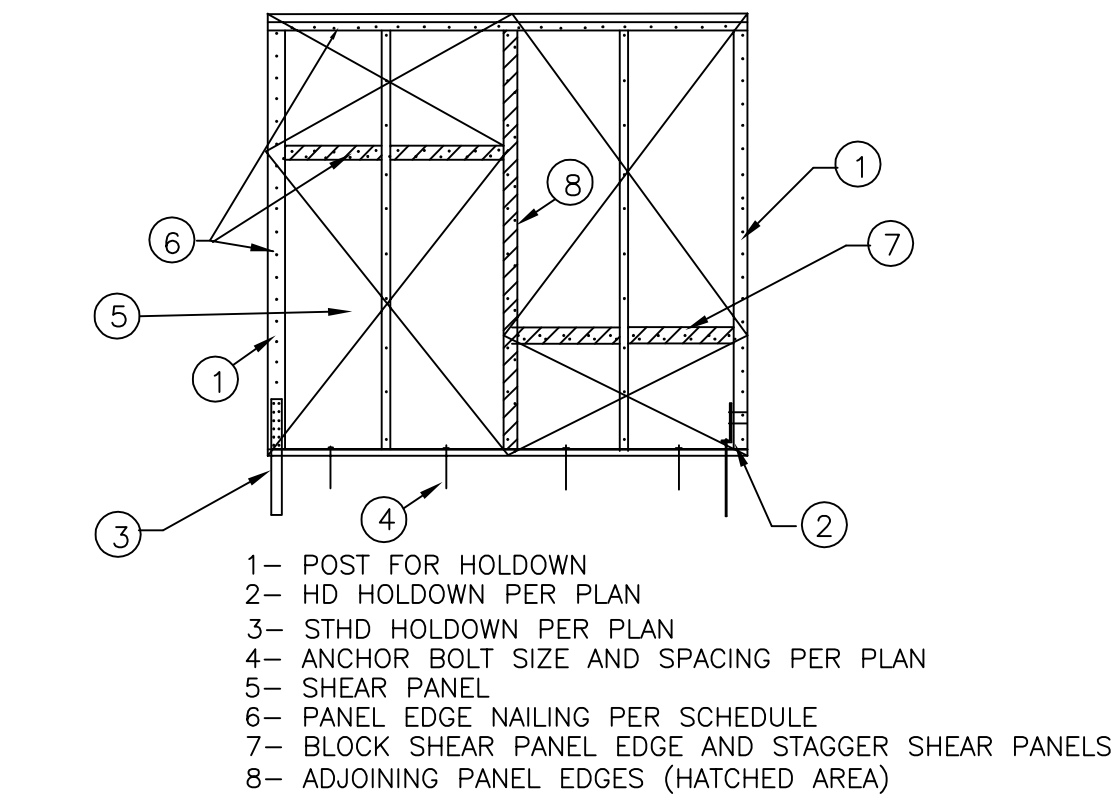
WOOD STRUCTURAL PANEL SHEAR WALL SCHEDULE
(PER 2015 NDS SDPWS TABLE 4.3A SEISMIC ASD VALUE)

MARK	WALL TYPE & NAIL SPACING (common or galv. box) (USE 20% MORE NAILS IF SINKER NAILS ARE USED)	ALLOWABLE SHEAR, PLF	ANCHOR BOLTS (12" LONG OR 18" FOR 2-POUR)	UPPER FLOOR SILL NAILING
10	3/8" CDX plywood or OSB w/8d nails @ 6" o.c. at edges and @ 12" o.c. in field see note #5 below	260	5/8" @ 4'	16d @ 6"
11	3/8" CDX plwwood or OSB w/8d nails @ 4" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	380 (*760)	5/8" @ 3' (*5/8" @ 1.5') <---IF DBL SIDED	16d @ 6" (*16d @ 3")
12	3/8" CDX plywood or OSB w/8d nails @ 3" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	490 (*980)	5/8" @ 2.5' (*5/8" @ 1.25') <---IF DBL SIDED	16d @ 4" (*16d @ 2")
13	3/8" CDX plywood or OSB w/8d nails @ 2" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	640 (*1280)	5/8" @ 1.5' (*5/8" @ 0.75') <---IF DBL SIDED	16d @ 3.5" (*2-16d @ 3.5")
14	1/2" Str. I plywood w/10d nails @ 2" o.c. at edges and @ 12" o.c. in field USE 3X FOUNDATION SILL PLATE & 3X STUDS AND BLOCKS AT ADJACENT PANELS	870 (*1740)	5/8" @ 1.25' (*5/8" @ 0.6') <---IF DBL SIDED	16d @ 2.5" (*2-16d @ 2.5")

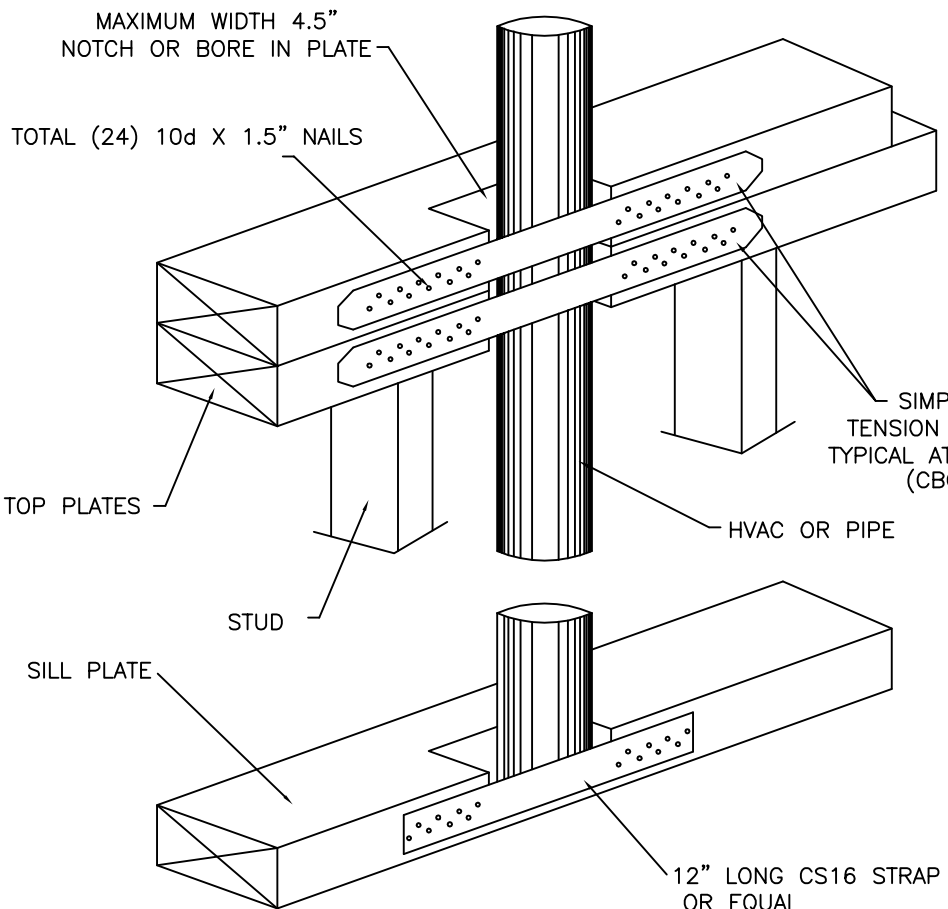
- NOTES:
1. (* ---) in the table designates that shear wall sheathing is to be applied on both faces of wall.
2. All panel edges must be blocked with 2x solid blocking. Field nailing shall be 12" o.c. for stud spaced at 16" o.c. and 6" o.c. otherwise.
3. Shear wall panels shall be applied on both faces of a wall and nail spacing is less than 6 inches on center on either side, panel joints shall be offset to fall on different framing members or framing shall be 3-inch nominal or thicker and nails on each side shall be staggered.
4. Where shear design values exceed 350 plf, foundation sill plates and all framing members receiving edge nailing from abutting panels shall not be less than 3-inch nominal member. Nails shall be staggered.
5. Where panel is applied on both faces of a wall and nail spacing is less than 6 inches on center on either side, panel joints shall be offset to fall on different framing members or framing shall be 3-inch nominal or thicker and nails on each side shall be staggered.
6. All continuous exterior & interior bearing footings shall have 5/8" x 12" A.B. @ 6' o.c. for monolithic pour concrete system and 5/8"x18" A.B. for non-monolithic pour concrete system unless at shear wall panel where anchor bolts shall be installed per shear wall schedule.
7. All interior non-bearing footing shall have 7/32" shot pins @ 32" o.c. & 48" o.c. respectively.
8. All anchor bolt shall have plate wahers a minimum of 3" x 3" x 0.229" thick.
9. Use 20% more nails if sinker nails are used instead of common or galvanized box nails.
10. For design to resist seismic forces, the shear wall aspect ratio (h/b) shall not exceed 2:1 unless the nominal unit shear capacity is multiplied by 2b/h & panel blocked. The maximum (h/b) ratio of reducible shear wall is 3.5:1.



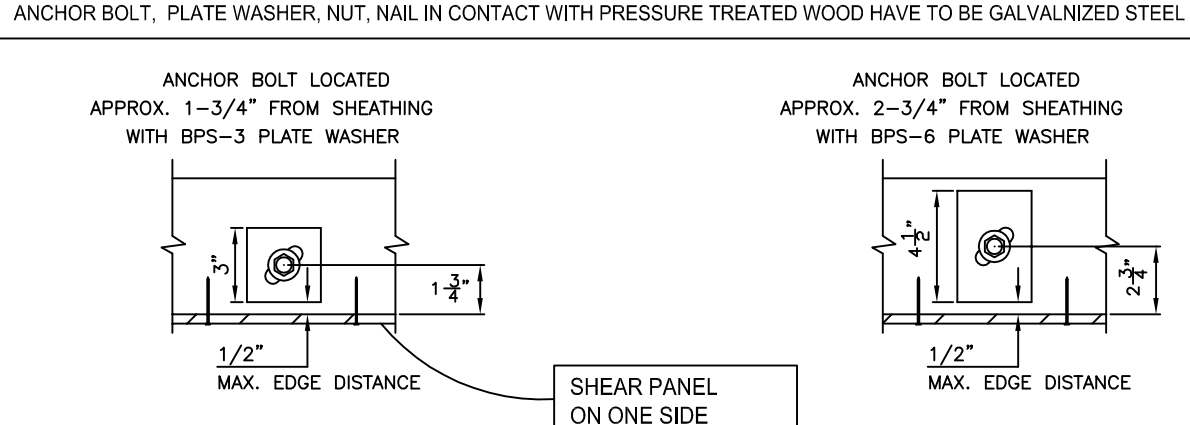
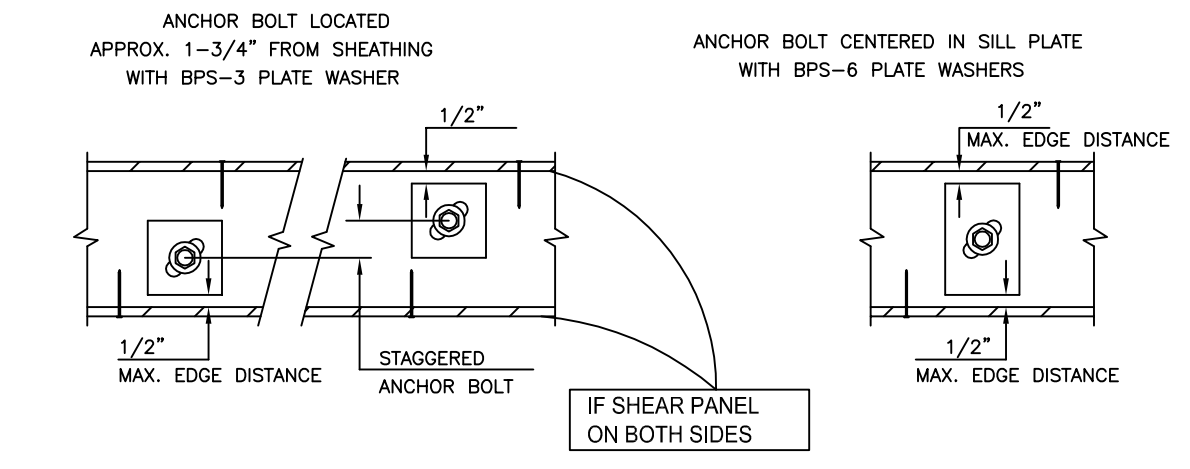
5 UTILITY OPENING IN SHEAR WALL



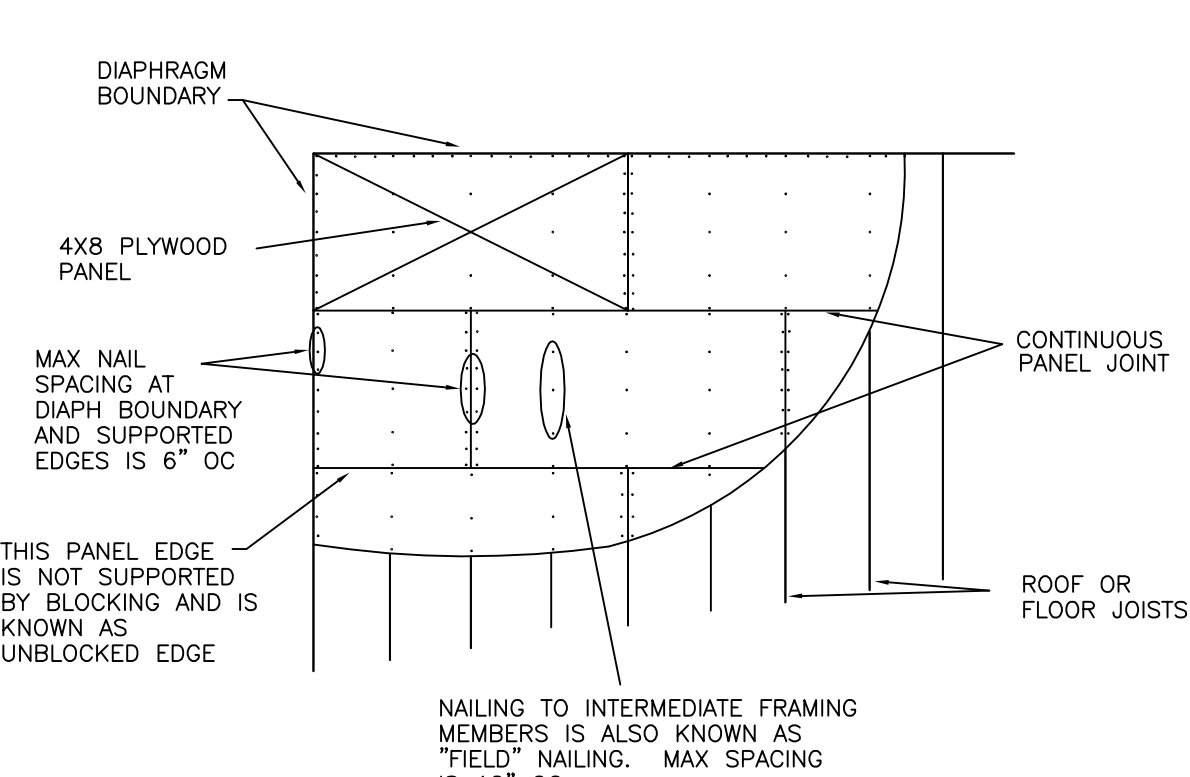
6 (TYP) SHEAR WALL PANEL



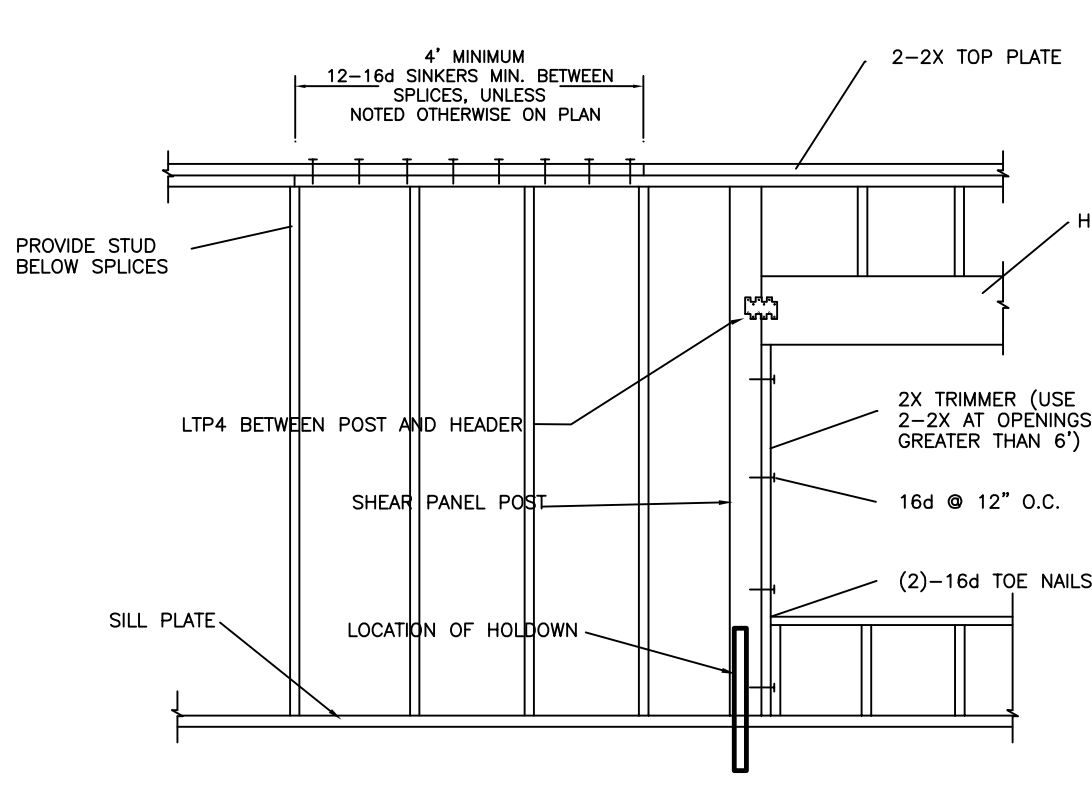
7 FIX FOR THE PLATE CUT



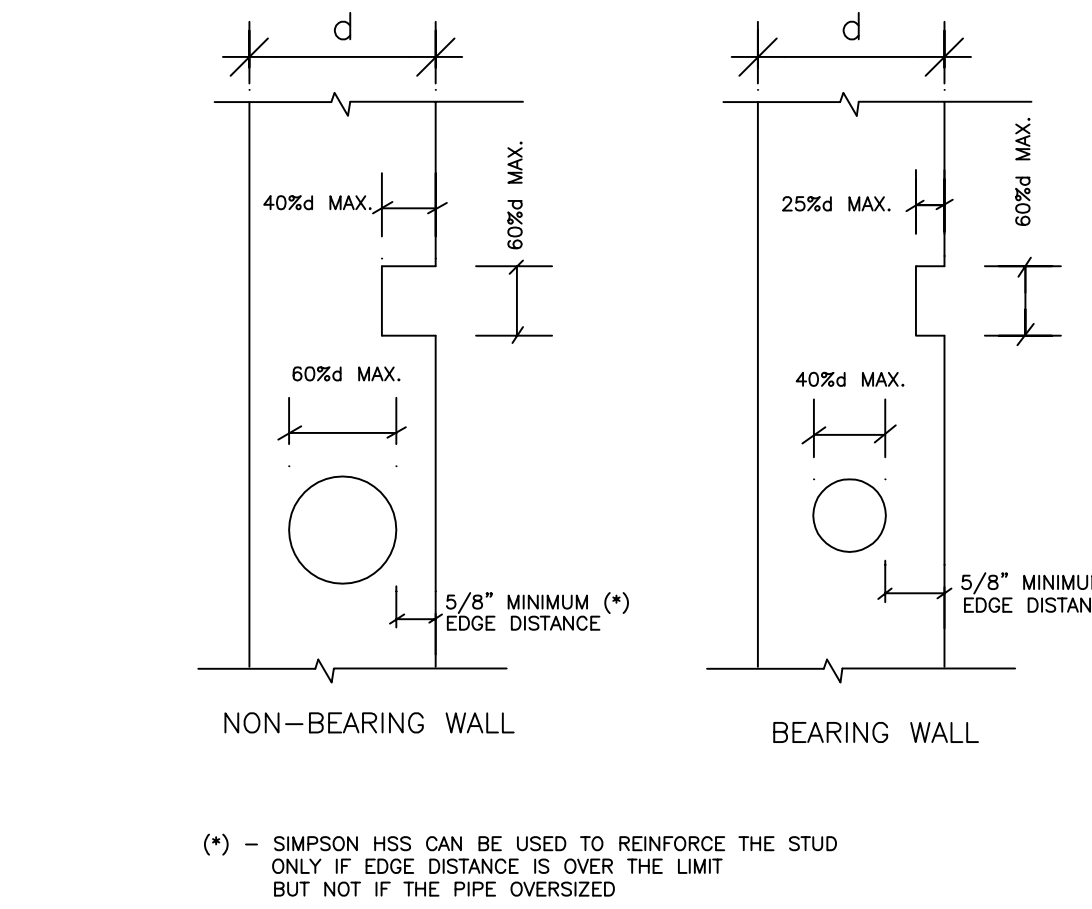
8 ANCHOR BOLTS AT 2X6 STUD SHEAR WALL



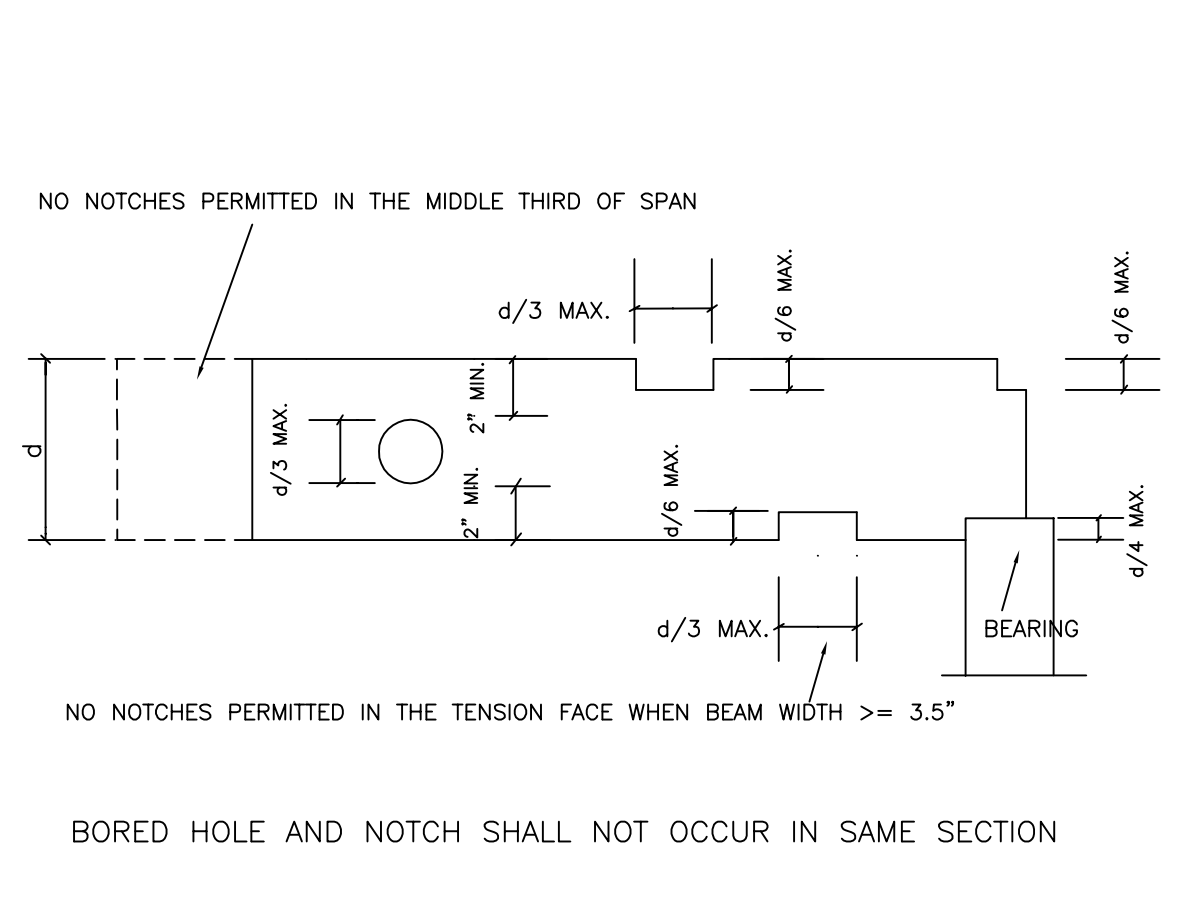
1 UNBLOCKED HORIZONTAL DIAPHRAGM



2 SHEAR WALL ADJACENT TO OPENING



3 NOTCH & BORE LIMITATION FOR STUD



4 NOTCH & BORE LIMITATIONS FOR SAWN

REVISIONS

DESCRIPTION	DATE

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FRED SHEU
ENGINEERING
1636 CALIFORNIA AVE., SUITE 103
VICTORVILLE, CA 92392
Email: fredsheuengineer@gmail.com

SMART HOMES OF THE DESERT, INC.
LOT NO. 271 CUYAMACA DRIVE
DESERT HOT SPRINGS, CA 92240

GENERAL NOTES
&
STANDARD DETAILS

DATE 10/2/18

SCALE NONE

DRAWN BY FS

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SHEET

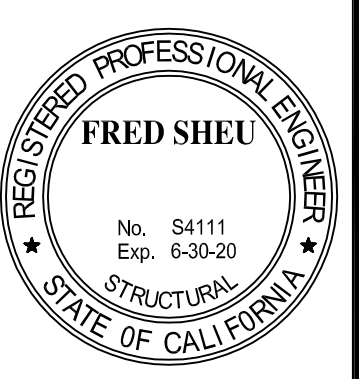
SD1

		<p>1- BOTTOM CHORD OF TRUSS W/ 2X4 NAILER FOR STRAP 2- DOUBLE TOP PLATE 3- SIMPSON MSTC66 STRAP PER PLAN 4- STUD WALL</p>	<p>1- 2X4 PERIMETER @16" O.C. MAX 2- ROOF SHEATHING 3- PLYWOOD EDGE NAILING 4- FULL HT SHEAR PANEL PER PLAN 5- LTP4 @ 24" O.C. ENTIRE WALL 6- FULL HEIGHT SHEAR PANEL, SEE PLAN 7- H1 AT EACH TRUSS 8- 2X4 FILLER BETWEEN 2X4 PERIMETER W/ 16d @6" O.C.</p>	<p>1- FLUSH BEAM 2- ST6236 ON TOP OR ON THE SIDE 3- DROP BEAM 4- DBL TOP PLATE 5- POST OR DBL STUDS PER PLAN 6- 2X STUD 7- EPC OR ST6224</p>	<p>1- ROOF SHEATHING BOUNDARY NAIL 2- ROOF SHEATHING 3- SIMPSON H1 TIE AT EACH TRUSS 4- DOUBLE TOP PLATE 5- 2X STUD WALL OR BEAM 6- 2X STUD WALL OR BEAM 7- SHEAR PANEL PER SEE PLAN 8- 2X BLOCKING W/RBC OR LTP4 @ 24" O.C. OVER ENTIRE WALL (NOT LIMITED TO SHEAR PANELS ONLY) TRANSFERRING LATERAL LOAD FROM ROOF DIAPHRAGM TO TOP PLATES 9- SHEAR PANEL EDGE NAILING PER SCHEDULE AND TRANSFER LATERAL FORCE FROM TOP PLATES TO SHEAR PANEL</p>																											
17	13	DRAG CONNECTION	9	SHEAR TRANSFER	5	BEAM-WALL POST CONNECTION	1	SHEAR TRANSFER																								
			<p>1- ROOF SHEATHING 2- ROOF TRUSS 3- 2X SOLID RIDGE BLOCKING 4- 2-16d TOE NAILS</p>		<p>1- PLYWOOD ROOF SHEATHING 2- ROOF EDGE NAILING 3- 2X CONT. BOARD NOTCH AS REQUIRED W/(2)-16d NAILS PER ROOF RAFTER FOLLOWING LINE OF CALIF. FRAMING 4- CALIF. FRAMING W/2X4 @24" O.C. FOR MAX. SPAN OF 7' W/2X6 @24" O.C. FOR MAX. SPAN OF 10.5' W/2X8 @24" O.C. FOR MAX. SPAN OF 13.5' & W/ PLYWOOD SHEATHING CONTINUOUS UNDERNEATH ON MAIN FRAMING & 2X4 RAFTER TIE @ 48" O.C. 5- ROOF RAFTER OR TRUSS</p>	<p>1- SHEAR PANEL OVER ENTIRE WALL TO ROOF 3- BOTTOM CHORD OF TRUSS W/A35 AT 24" OC TO TOP PLATE 4- DBL TOP PLATE 5- 2X CRIPPLE WALL IF OCCURS W/ SHEAR PANEL 6- MSTC52 7- CONTINUOUS HDR 8- SHEAR PANEL</p>																										
18	14		10	TRUSS RIDGE BLOCKING	6	CALIF. FRAMING SHEAR TRANSFER	2	CONTINUOUS HEADER OVER SHEAR PANEL																								
		<p>1- E.N. 2- H1 AT EACH TRUSS 3- 2X CALIFORNIA FRAMING @24" O.C. 4- TRUSS OR 2X STUD FILL-IN WALL AT SHEAR WALL LOCATION 5- MIN. 2X6 SHAPED W/2-16d NAILS TO EACH RAFTER 6- CONTINUOUS 2X PLATE W/12d @ 6" O.C. 7- 16d AT 6" O.C. BOTTOM CHORD OF TRUSS TO 2X4 BLOCKING 8- ROOF TRUSS 9- ROOF SHEATHING 10- 2X BLOCKING 11- SHEAR PANEL TO ROOF</p>	<p>2-16d END NAILS TO EACH OUTRIGGER TRUSS 2X4 D.F. #2 OUTRIGGER @ 24" O.C. OVERHANG FACIAL BOARD 2-16d END NAILS TO EACH OUTRIGGER TOP CHORD OF GABLE END TRUSS</p>	<p>1- 16d SINKER NAILS AT 4" O.C. U.N.O. ON PLANS AND PER TABLE BELOW 2- TYPICAL STUDS AT 16" O.C. 3- LOCATE STUD UNDER SPLICE 4- NUMBER OF NAILS SPECIFIED BETWEEN SPLICING POINTS ON THE PLANS AND PER TABLE BELOW 5- SIMPSON STRAP PER PLANS AND THE TABLE BELOW NOTE: -FULLY NAIL STRAP W/ 16d SINKER NAILS OR 10d COMMON NAILS -NAILS SHALL BE AT LEAST 2" APART</p> <table border="1"><thead><tr><th>SCHEDULE PER DETAIL</th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th></tr></thead><tbody><tr><td># OF 16d SINKERS</td><td>12</td><td>18</td><td>24</td><td>30</td><td>36</td><td>42</td></tr><tr><td>MIN. PLATE LAP</td><td>4 FT.</td><td>4 FT.</td><td>4 FT.</td><td>6 FT.</td><td>8 FT.</td><td>8 FT.</td></tr><tr><td>ALT. STRAP W/ 16d SINKERS</td><td>ST22</td><td>ST6224</td><td>ST6236</td><td>MST37</td><td>MST48</td><td>MST60</td></tr></tbody></table>	SCHEDULE PER DETAIL	A	B	C	D	E	F	# OF 16d SINKERS	12	18	24	30	36	42	MIN. PLATE LAP	4 FT.	4 FT.	4 FT.	6 FT.	8 FT.	8 FT.	ALT. STRAP W/ 16d SINKERS	ST22	ST6224	ST6236	MST37	MST48	MST60
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		<p>1- LTP4 OR A35 @ 8" O.C. BETWEEN 4X4 MEMBER AND TRUSSES 2- 4' LOGN 4X4 MEMBER AT SIDE OF TRUSS 3- DRAG TRUSS 4- SIMPSON MSTC52 BETWEEN TOP PLATE AND 4X4 MEMBER 5- 16d NAIL @ 3" O.C. STAGGERED BETWEEN TRUSS AND 4X4 MEMBER 6- STUD WALL 7- DBL TOP PLATE</p>	<p>1- GABLE END TRUSS OR BALLOON FRAME WALL 2- ROOF DIAPHRAGM BOUNDARY NAILING 3- ROOF SHEATHING 4- 2X CONTINUOUS BLOCKING W/16d NAILS A 12" O.C. TO TRUSS AND TO DBL TOP PLATE 5- BEAM OR DBL TOP PLATE 6- STUD WALL OR BEAM PER PLAN 7- SHEAR PANEL PER SHEAR WALL SCHEDULE EXTEND PANEL TO ROOF SHEATHING AT SHEAR WALL LOCATIONS ONLY 8- 2x DIAGONAL BRACING AND BLOCKING AT 48" O.C. FOR ENTIRE GABLE END WALL NOT REQUIRED FOR BALLOON FRAME WALL 9- LTP4 @16" O.C. OR A35 @16" O.C. INSIDE 10- A34</p> <p>NOTE: ALTERNATIVE TO FULL HT. SHEAR PANEL TO ROOF PROVIDE STRUCTURAL TRUSS TO RESIST LATERAL LOAD PER ENGINEER'S CALCULATED LATERAL LOAD</p>	<p>1- E.N. 2- 2X4 BLOCKING @ 24" O.C. 3- 1-16d NAIL AT EACH SIDE OF BLOCKING 4- SIMPSON STCT SIDE OF TRUSS OR BLOCKING 5- DBL TOP PLATE 6- ROOF OR FLOOR TRUSS 7- SHEAR PANEL, SEE PLAN 8- CEILING DRYWALL W/EDGE NAILING</p>																												
20	16		12	DRAG CONNECTION	8	GABLE END TRUSS SHEAR TRANSFER	4	INTERIOR NON-BEARING WALL																								

REVISIONS

DESCRIPTION	DATE

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FRED SHEU
ENGINEERING
14286 CALIFORNIA AVE, SUITE 103
VICTORVILLE, CA 92292
email: fredsheuengineer@gmail.com

PROJECT NAME:
SMART HOMES OF THE DESERT, INC.
LOT NO. 271 CUYAMACA DRIVE
DESERT HOT SPRINGS, CA 92240

DRAWING TITLE:
DETAILS

DATE	10/1/18
SCALE	NONE
DRAWN BY	FS
CHECKED BY	
JOB NO.	S18223
SHEET	

SD3