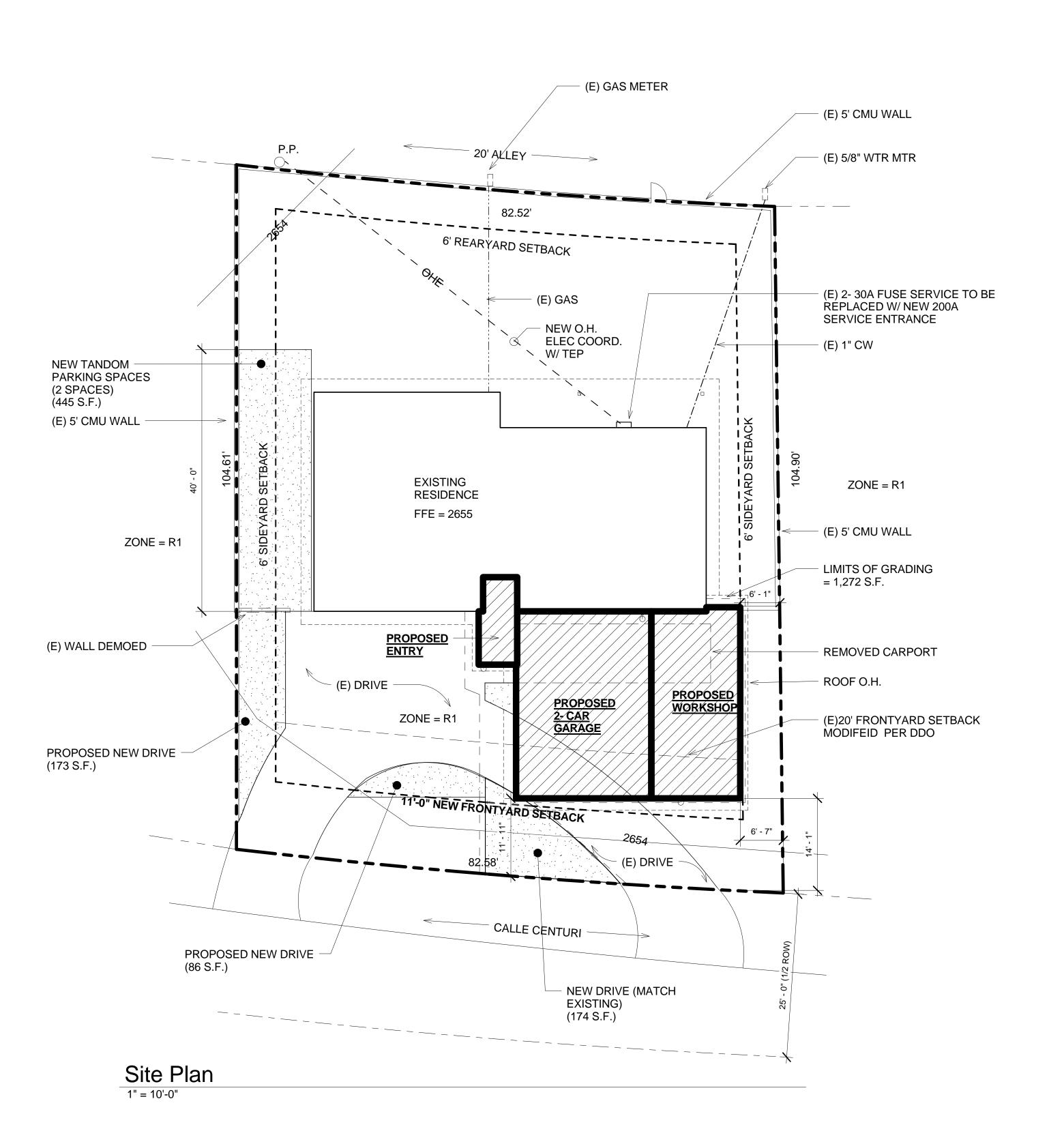
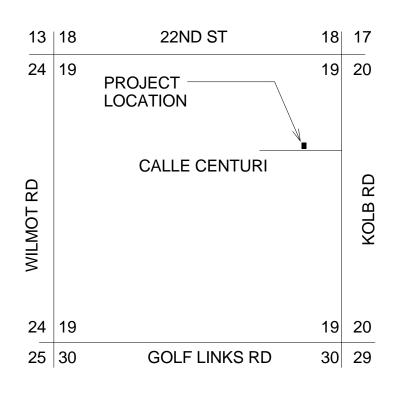
New Garage & Workshop For: Seffrey Citron





Location Map 3" = 1 MILE

Project Data

OWNERS: JEFFREY CITRON 7025 E CALLE CENTURI ADDRESS: LEGAL DESCRIPTION: TERRA DEL SOL RESUB LOT 26 BLK 26 LOT SIZE: 8,676 SF. SITE ZONING: R-1 SQUARE FOOTAGE: = 1,759 S.F. = 54 S.F. = 194 S.F. = 271 S.F. = 1,357 S.F. (E) LIVING (E) STG (E) PATIO (E) CARPORT REMOVED (E) DRIVE TO REMAIN **NEW WORKSHOP** = 430 S.F. = 542 S.F. **NEW GARAGE** NEW ENTRY NEW DRIVE = 75 S.F. = 878 S.F.

Code Review

LOT COVERAGE

APPLICABLE CODES: 2012 IRC NUMBER OF STORIES: one HEIGHT TO TOP OF ROOF: 11'-4" A.F.F. FIRE PROTECTION: none required

Drawing List

5560/8676

= 64%

Sheet Number	Sheet Name
GENERAL	
T1.0	Title Sheet
ARCHITECTURAL	
D1.0	Demolition Plan
ARCHITECTURAL	
A1.0	Dimensioned Floor Plan
A2.0	Building Elevations
A3.0	Building Sections
STRUCTURAL	
S1.0	Structural Plan
MECHANICAL	
MP1.0	Mechanical Plan
EL ECTRICAL	
ELECTRICAL E1.0	Power/Lighting Plan
L1.0	1 Owen Lighting Flatt

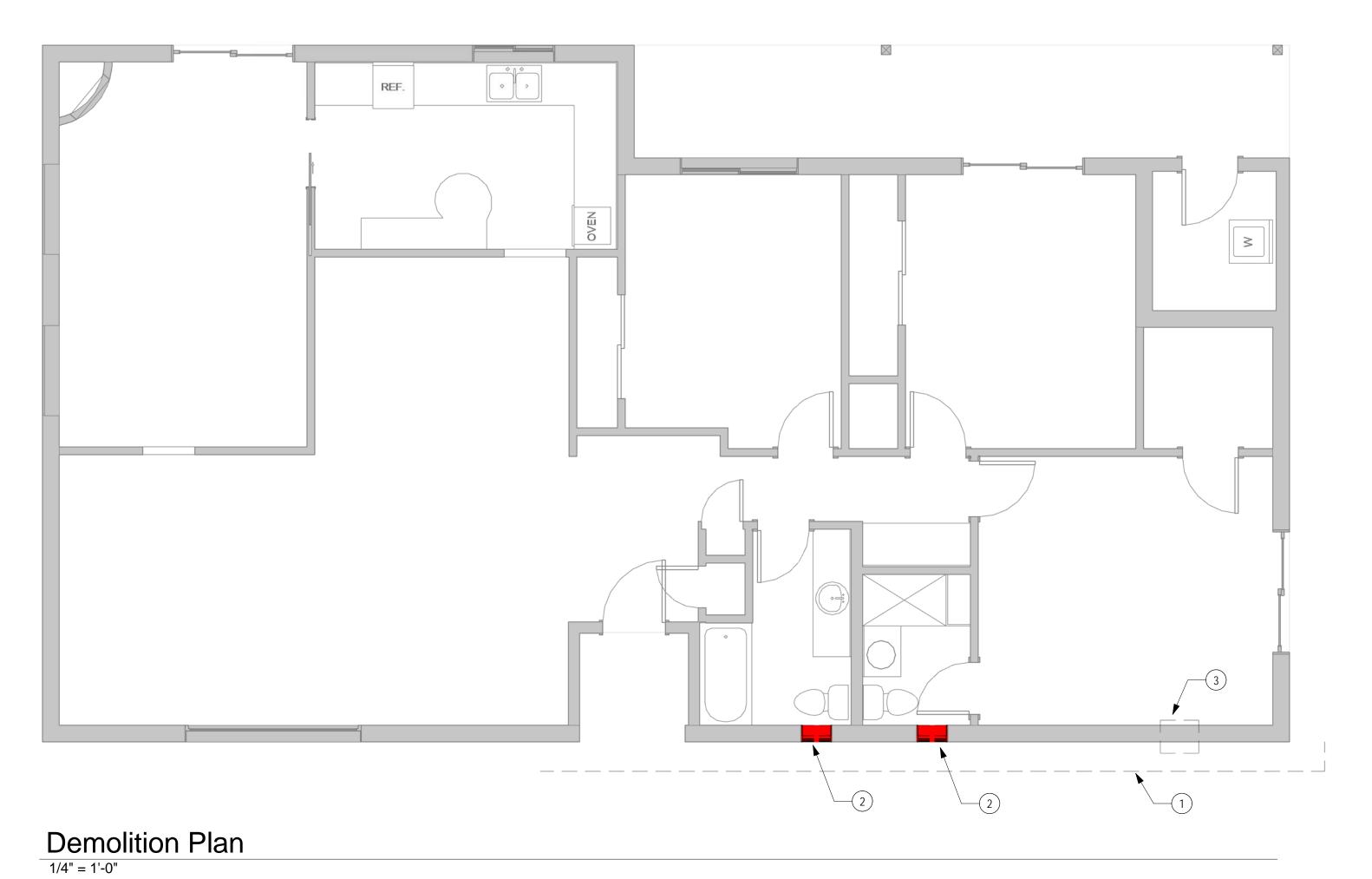
ΑE DRAWN BY: CHECKED BY: ΑE PROJECT NUMBER: 13115

617 N. Jasmine PI, Tucson Az 85710 Phone: (520) 495-8907 E-Mail alex@ Designs

For: v Garage & Workshop F Jeffrey Citron 7025 E Calle Centuri Tucson, Arizona Title Sheet

OF

SHT



General Demolition Notes:

PROTECT EXISTING STRUCTURAL ELEMENTS AND LANDSCAPING TO REMAIN FROM DAMAGE OR DISCOMFORT BY EFFECTS OF WIND, RAIN, DUST, FUMES, DEBRIS AND DEMOLITION OPERATIONS. PROVIDE BARRICADES WHERE AND AS NECESSARY. DEMOLITION WASTE SHALL BE DISPOSED PER INSTRUCTION OF OWNER IN MANNER THAT DUST AND DEBRIS WILL NOT BE TRANSFERRED TO OTHER AREAS OF FACILITY. PROVIDE NECESSARY WATER CONNECTIONS FOR THIS WORK. TAKE EVERY PRECAUTION TO PREVENT INJURY AND SPILLING OF DUST AND DEBRIS ON ADJACENT AREAS AND PERSONNEL. CONTRACTOR IS RESPONSIBLE FOR ANY LAWSUITS BECAUSE OF FAILURE TO TAKE NECESSARY PROTECTION PRECAUTIONS. PROTECT EXISTING ROOF AREAS AND PROVIDE CATWALKS ON ROOF WHEN TRANSPORTING MATERIALS ACROSS ROOF. DO NOT OBSTRUCT REQUIRED CIRCULATION WITHOUT APPROVAL OF OWNER OR PROPER PERMITS. ITEMS NOTED AS LANDLORDS PROPERTY ARE TO BE SALVAGED AND RETURNED TO LANDLORD'S REPRESENTATIVE. ALL OTHER ITEMS ARE PROPERTY OF CONTRACTOR AND ARE TO BE DISPOSED OF OFF-SITE BY CONTRACTOR. PROVIDE REQUIRED WORK TO CONNECT NEW CONSTRUCTION TO EXISTING CONSTRUCTION. PERFORM WORK IN MANNER THAT WHEN RECONSTRUCTION WORK IS PERFORMED, DEMOLITION IS LEFT IN CLEAN CONDITION WITH NEAT EDGES AND ABLE TO BE JOINED WITHOUT UNDUE DIFFICULTY. PROVIDE REQUIRED SHORING AND PINNING TO ABSORB WEIGHT OF STRUCTURE DURING CUTTING OF NEW OPENINGS IN EXISTING FACILITIES. SHORING TO REMAIN UNTIL NEW STRUCTURE IS SECURE REPAIR DAMAGE TO ADJACENT STRUCTURE OR FINISHES CAUSED AS A RESULT OF THIS WORK. REPAIR EXCESS DEMOLITION TO THAT REQUIRED, AT NO COST TO OWNER.

Demolition Keynotes:

- EXISTING ROOF TAILS CUT BACK TO BE FLUSH WITH WALL
- EXISTING WINDOW TO BE REMOVED INFILL OPENING LIKE MATERIALS - ALIGN FINISHES
- 3. EXISTING WINDOW MOUNT A/C UNIT TO BE REMOVED EXISTING OPENING TO BE INFILLED W/ LIKE MATERIALS
 ALIGN FINISH

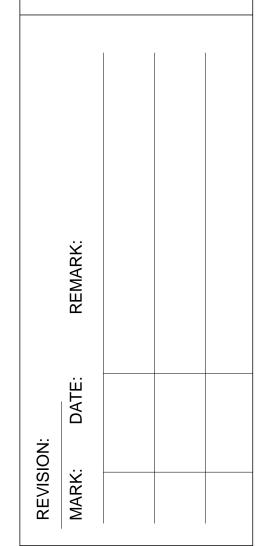
DRAWN BY: Author

CHECKED BY: Checker

PROJECT
NUMBER: 13115

Designs Pl, Tucson Az 85710
one: (520) 495-8907 E-Mail alex@cadmandesigns.biz

w Garage & Workshop For: Jeffrey Citron 7025 E Calle Centuri Tucson, Arizona Demolition Plan



D1.0

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General Floor Plan Notes:

- ALL EXTERIOR WALLS TO BE 3-COAT STUCCO SYSTEM OVER EXT. SHEATHING (CLIENTS OPTION 5/8" EXT. GRADE T1-11 SIDING OVER 2x6 WD. STUDS @ 16" O.C. FILLED W/ R-21 BATT INSUL. W/ 1/2" GWB INT SIDE (U.N.O)
- ALL INT. WALLS TO 2x4 WD. STUDS @ 16" O.C. W/ 1/2" GWB BOTH SIDES (U.N.O.)
- ALL FLOOR AND BASE FINISHES TO BE COORD. W/
- ALL DOORS TO HAVE ADA COMPLIANT LEVER

Floor Plan Keynotes:

Key Value Keynote Text CONC. WHEELSTOP 1/2" BACKERBOARD WITH CERAMIC TILE SHOWER/TUB ENCLOSURE UP TO 72" A.F.F. (TO COMPLY W/ 2012 IRC R702.3 & R702.4 & MANUFACTURERS INSTALLATIONS SPECS. COUNTERTOP WITH BASE CABINETS SELECTED

- BY OWNER, CONTR. INSTALL INFILL EXISTING OPENING W/ LIKE MATERIALS
- (ALIGN FINISH) 6" FURROUT (1/2" GWB OVER 2X6 WD STUDS AT

TABLE N1102.1 2006 IRC)(NEW CONSTRUCTION ONLY)

GLAZING = .75 OR LOWER U FACTOR = .75 OR LOWER U FACTOR SHGC = .40 OR LOWER WALL INSULATION = R21 MIN. CEILING INSULATION = R30 MIN.

GENERAL NOTE: BUILDING THERMAL ENVELOPE SHALL COMPLY WITH IRC 2012 SECTIONS N1102.4.1.1 AND N1102.4.1.2. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFEERENTIAL EXPANSION AND CONTRACTION

THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE AS LISTED IN TABLE N1102.4.1.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE CRITERIA LISTED IN TABLE N1102,4.1.1, AS APPLICABLE TO THE METHOD OF CONSTRUCTION. WHERE REQUIRED BY THE BUILDING OFFICIAL, AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE.

N1102.4.1.2 (R402.4.1.2) TESTING. THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 5 AIR CHANGES PER

TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS). WHERE REQUIRED BY THE BUILDING OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE BUILDING OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE.

DURING TESTING:

1. EXTERIOR WINDOWS AND DOORS, FIREPLACE AND STOVE DOORS SHALL BE CLOSED, BUT NOT SEALED, BEYOND THE INTENDED WEATHERSTRIPPING OR OTHER INFILTRATION CONTROL MEASURES;

2. DAMPERS INCLUDING EXHAUST, INTAKE, MAKEUP AIR, BACKDRAFT AND FLUE DAMPERS SHALL BE CLOSED, BUT NOT SEALED BEYOND INTENDED INFILTRATION CONTROL

MEASURES; 3. INTERIOR DOORS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE OPEN; 4. EXTERIOR DOORS FOR CONTINUOUS VENTILATION SYSTEMS

AND HEAT RECOVERY VENTILATORS SHALL BE CLOSED AND SEALED: 5. HEATING AND COOLING SYSTEMS, IF INSTALLED AT THE TIME OF THE TEST, SHALL BE TURNED OFF; AND

6. SUPPLY AND RETURN REGISTERS, IF INSTALLED AT THE

TIME OF THE TEST, SHALL BE FULLY OPEN

		Door Schedul	е			
Door			Doo	or	Comments	
Number	Door Type	Door Size	Finish	Frame		
3	DECORATIVE EXT.	36" x 80"	SC/WD	WD		
4	6 PANEL	36" x 80"	HC/WD	WD		
5	6 PANEL	32" x 80"	HC/WD	WD		
6	SLIDING CLOSET	60" x 80"	HC/WD	WD		
8	6 PANEL	36" x 80"	SC/WD	WD	20 MIN.	
9	DECORATIVE EXT.	36" x 80"	SC/WD	WD		
10	GARAGE DR	18' x 7'	BY MFGR	WD		

		Wir	ndow Schedule		
Rough	Opening				
Width	Height	Туре	Material	Finish	Comments
5' - 0"	4' - 0"	Picture	DBL PANE/LOW E	TINT	
4' - 0"	4' - 0"	Sliding	DBL PANE/LOW E	TINT	
2' - 0"	2' - 0"	Picture			
	Width 5' - 0" 4' - 0"	5' - 0"	Rough Opening Width Height Type 5' - 0" 4' - 0" Picture 4' - 0" 4' - 0" Sliding	Rough Opening Width Height Type Material 5' - 0" 4' - 0" Picture DBL PANE/LOW E 4' - 0" 4' - 0" Sliding DBL PANE/LOW E	Width Height Type Material Finish 5' - 0" 4' - 0" Picture DBL PANE/LOW E TINT 4' - 0" 4' - 0" Sliding DBL PANE/LOW E TINT

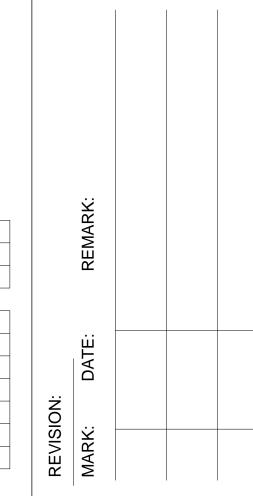
ΑE DRAWN BY: CHECKED BY: ΑE PROJECT 13115 NUMBER:

> ne Pl, Tucson Az 85710 495-8907 E-Mail alex@ Designs

Centuri rizona Citron / Garage & Jeffrey 7025 E Cal Tucson,

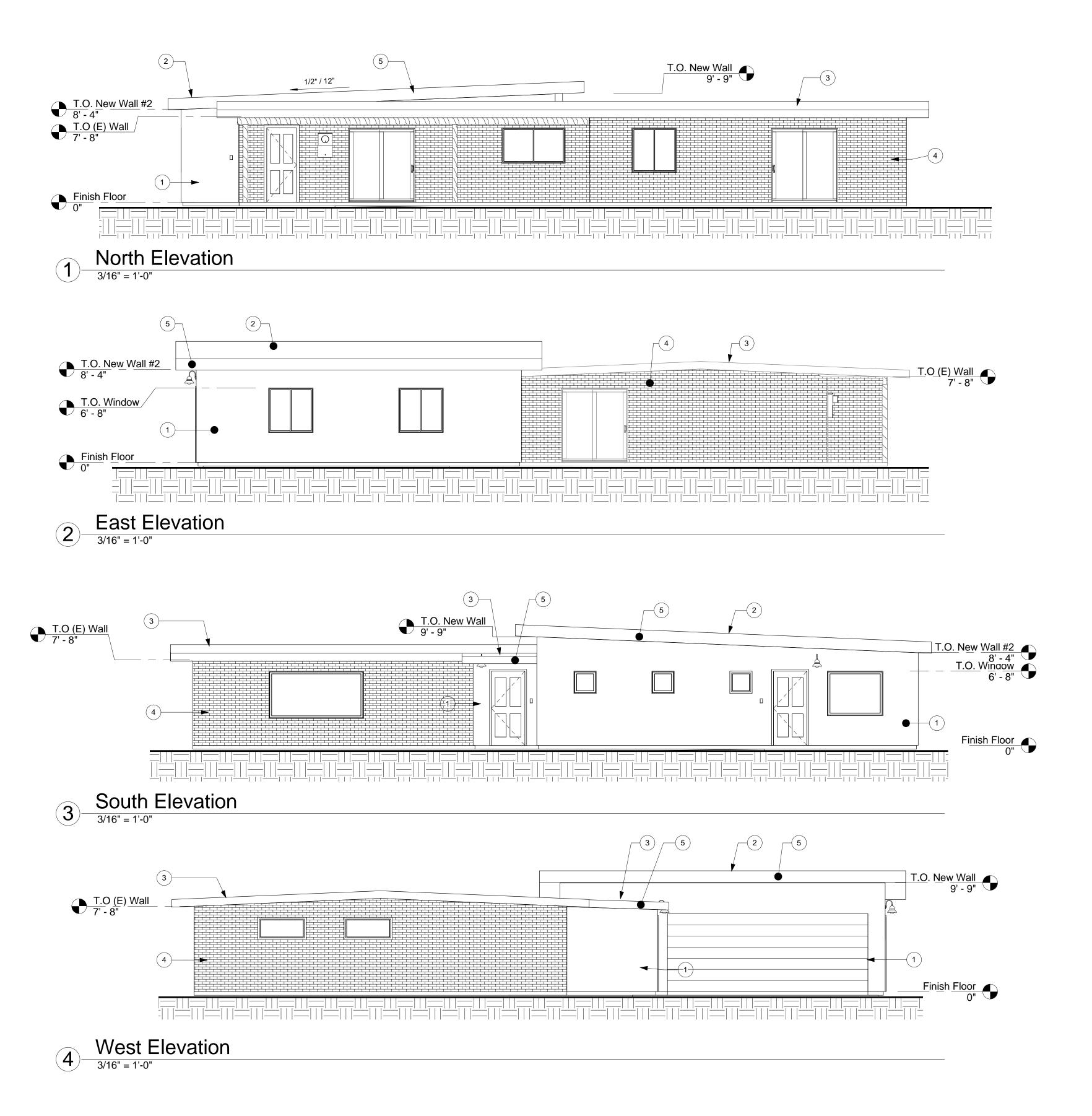
Floor

Dimensioned



SHT

OF



Elevation Keynotes:

Key Value	Keynote Text
1	3- COAT STUCCO SYSTEM (DEC718. MESA TAI BY DUNN EDWARD LRV= 27) OVER EXT. SHEATHING OVER 2X6 WD. STUDS @ 16" O.C. FILLED W/ R-21 BATT INSUL. 5/8" GWB INT.
2	NEW 3-PLY BUILT-UP ROOF
3	EXISTING ASPHALT SHINGLE ROOF TO REMA

EXISTING BLOCK WALL TO REMAIN 2X FASCIA W/ MTL. DRIP EDGE

DRAWN BY: AE

CHECKED BY: AE

PROJECT 13115

NUMBER:

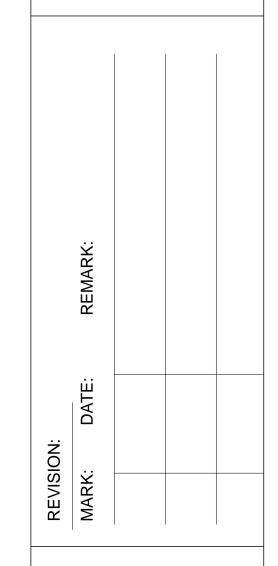
CELIMERTE

DesignS

I7 N. Jasmine PI, Tucson Az 85710

hone: (520) 495-8907 E-Mail alex@cadmandesigns.biz

New Garage & Workshop For:
Jeffrey Citron
7025 E Calle Centuri
Tucson, Arizona
Building Elevations



A2.0

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OF

Stucco Specifications

a. Stucco system shall be fiber reinforced over 1" polystyrene insulation board.

Acceptable systems include powerwall, western one coat, masterwall and diamond wall one coat stucco system.

b. Submit 2'-0" square sample of specified texture for finish coat. c. Plaster work in accordance with ASA standard specifications for plastering and manufacturers current printed instructions. 2. PRODUCT@ WD. STUD

a. Weather resistive barrier - Minimum garde D 60 min. kraft

building paper. Insulation - 1" polystyrene Owen Corning "formular" or equal.

Metal lath: 1" x 20ga woven wire mesh.

Base coat: Fiber reinforced modified Portland cement exterior

Stucco finish coat: Elastec "extreme" elastomeric stucco coating.

Stucco stops: install j metal stucco stops where stucco terminates against dissimilar

materials, i.e. Door casings, window openings, horizontal surfaces etc. Use perforated j

metal at base of exterior walls where required.

3. EXECUTION

a. Basecoat on lath: 1 coat, 3/8" thick, over paper backed metal lath over building paper.

b. Texture: River Sand finish

Curing: Stucco shall be cured as follows:

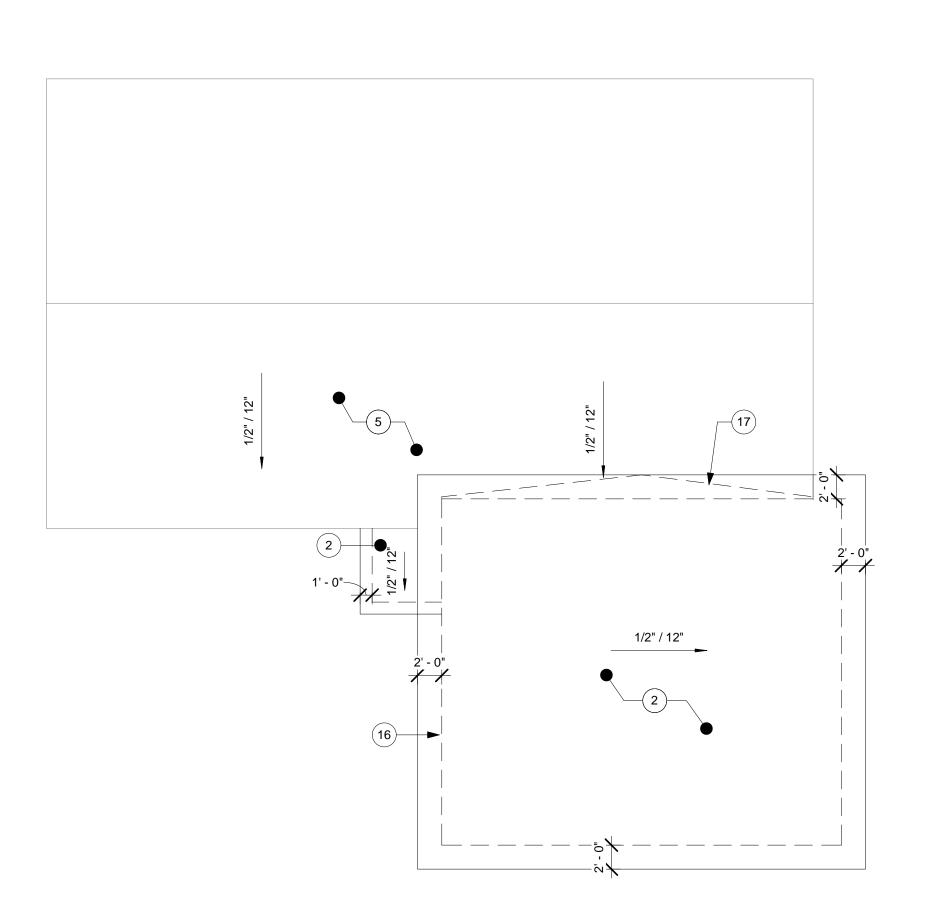
1. Damp curing period: Moistening of stucco to commence as soon as stucco has hardened sufficiently not to be

damaged, apply water in a fine spray. Avoid soaking wall, apply only as much water as will be readily absorbed. Each

coat kept damp continuously for at least 24 hours. d. Stucco contractor shall install control joints in stucco to control

cracking. See construction Documents for specific locations of control joints. If no joints are shown, contractor shall install control

joints as required to control cracking as recommended by manufacturer of stucco type being installed. Consult architect before

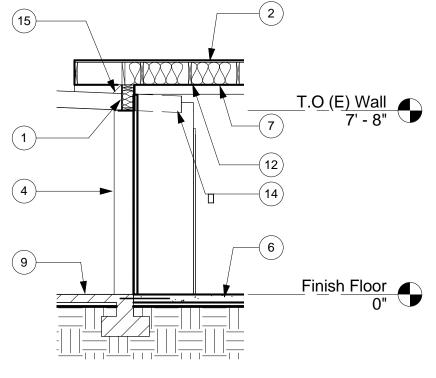


Roof Plan 1/8" = 1'-0"

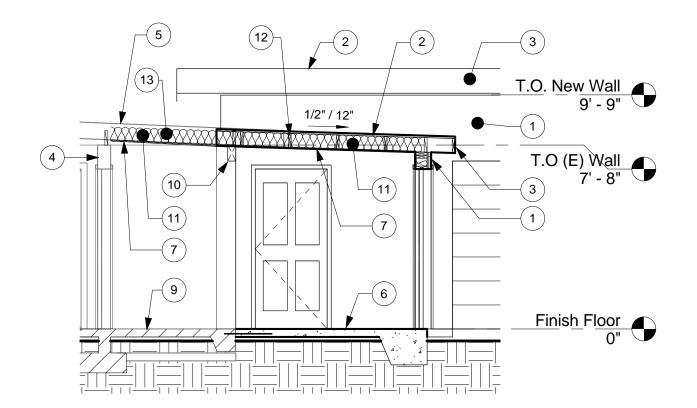
Building Section Keynotes:

Key Value	Keynote Text
1	3- COAT STUCCO SYSTEM (DEC718. MESA TAN BY DUNN EDWARD LRV= 27) OVER EXT. SHEATHING OVER 2X6 WD. STUDS @ 16" O.C. FILLED W/ R-21 BATT INSUL. 5/8" GWB INT.
2	NEW 3-PLY BUILT-UP ROOF
3	2X FASCIA W/ MTL. DRIP EDGE
4	EXISTING BLOCK WALL TO REMAIN
5	EXISTING ASPHALT SHINGLE ROOF TO REMAIN
6	4" CONC. SLAB ON 4" ABC. REFER TO FOUNDATION PLAN
7	5/8" GWB (MOISTURE RESISTANT WET LOCATIONS)
8	R-38 BATT INSUL
9	EXISTING CONC. SLAB
10	EXISTING WD. BEAM TO REMAIN
11	R38C COMPRESSED IN 2X8 CAVITY TO MAKE R30
12	JOIST SEE STRUC.
13	EXISTING JOIST ROOF STRUCTURE TO REMAIN
14	EXISTING ROOF TAILS CUT BACK
15	FLASHING SEE 7/A6.0
16	LINE OF WALL BELOW

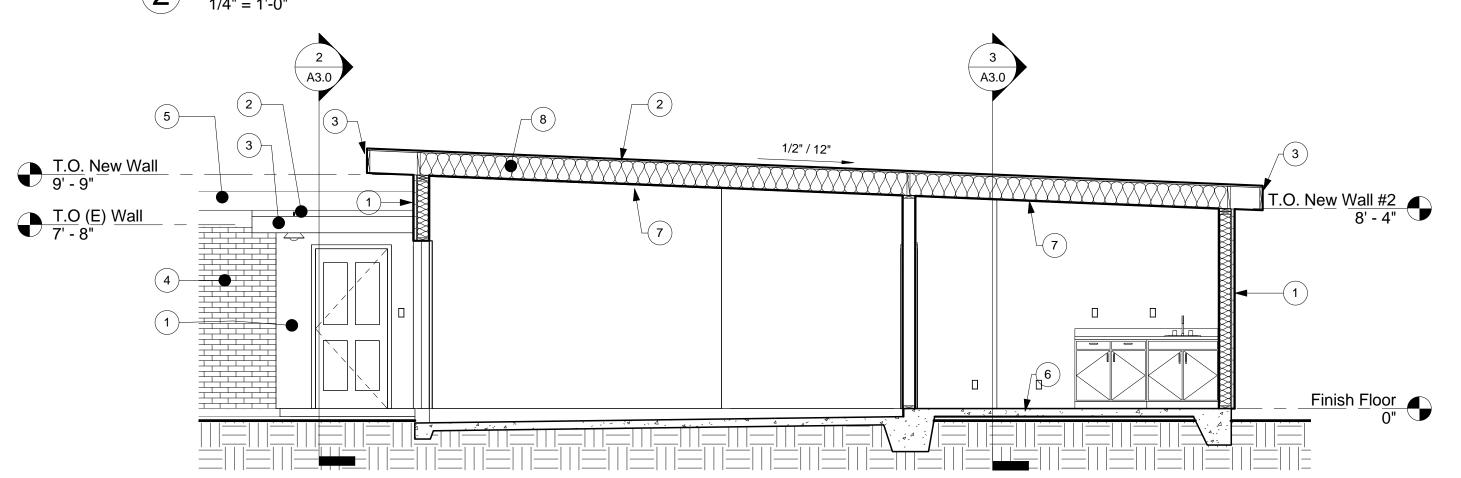
LINE OF NEW PLYWD. CRICKET BELOW ROOF



New Wall on Exist.



2 Entry Building Section



Garage and Workshop Building Section

1/4" = 1'-0"

/ Garage & \ Jeffrey (7025 E Cal Tucson, Buildir

Designs

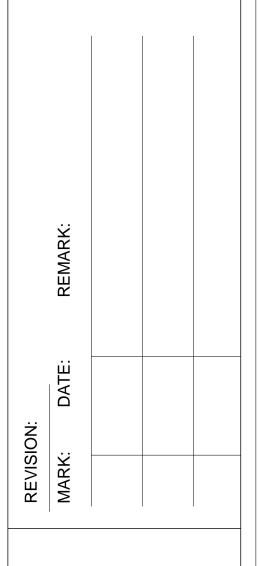
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PROJECT NUMBER:

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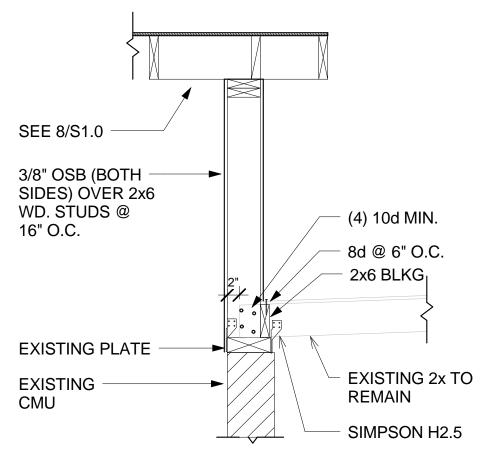
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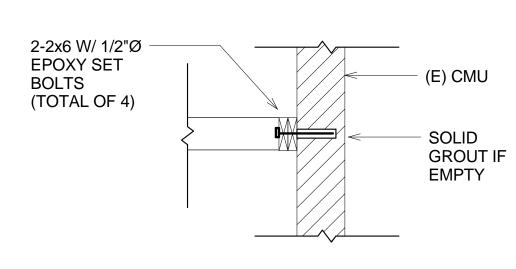
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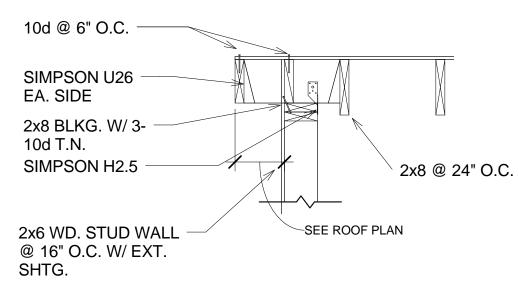
OF



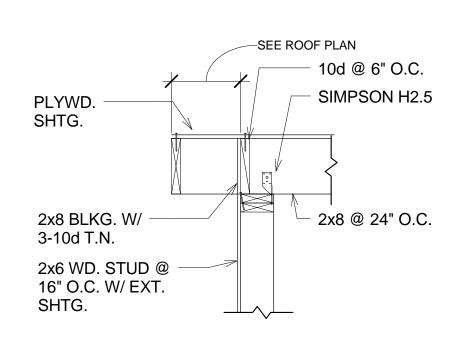
New Wall on Existing



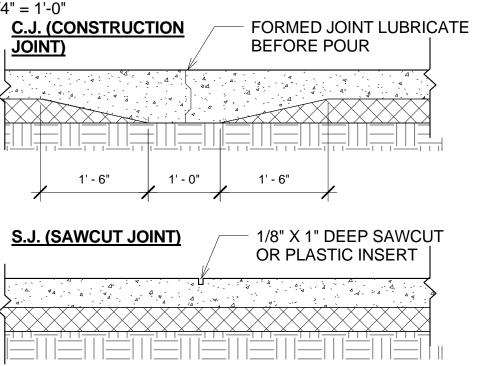
New Wall @ (E) Block Plan View



Joist Parallel to Wd. Wall

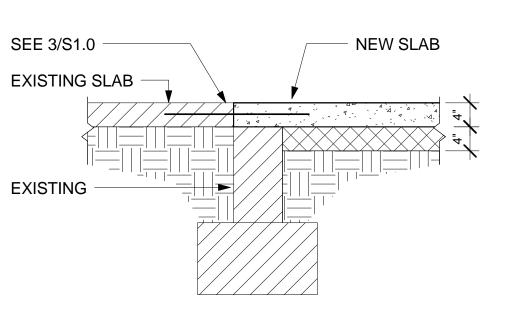


Joist Brg. on Wd. Wall

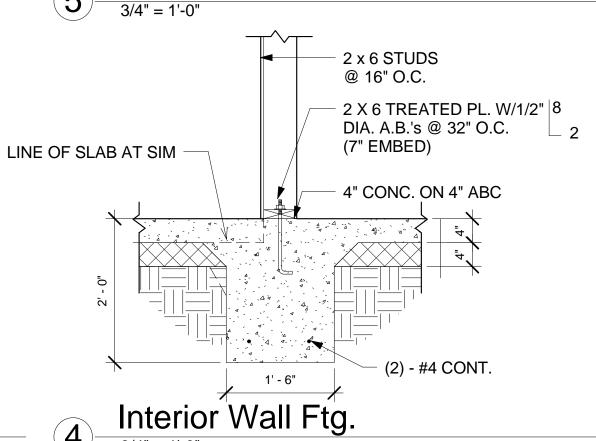


NOTE: KEYED JOINT MANDATORY AT ALL COLD JOINTS

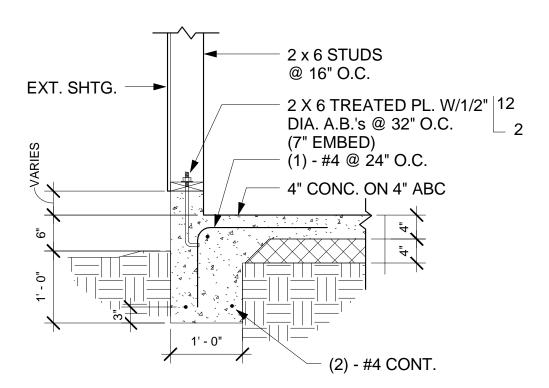
Construction Joint Detail



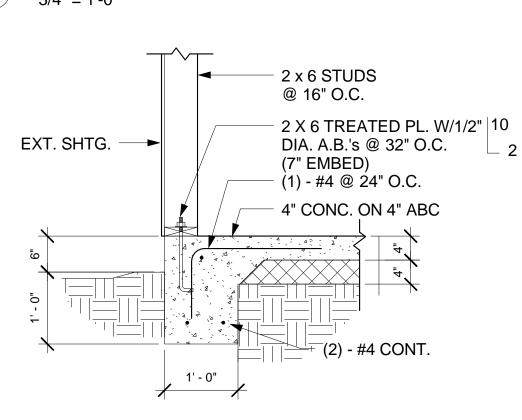
5 New Slab @ (E) Stem

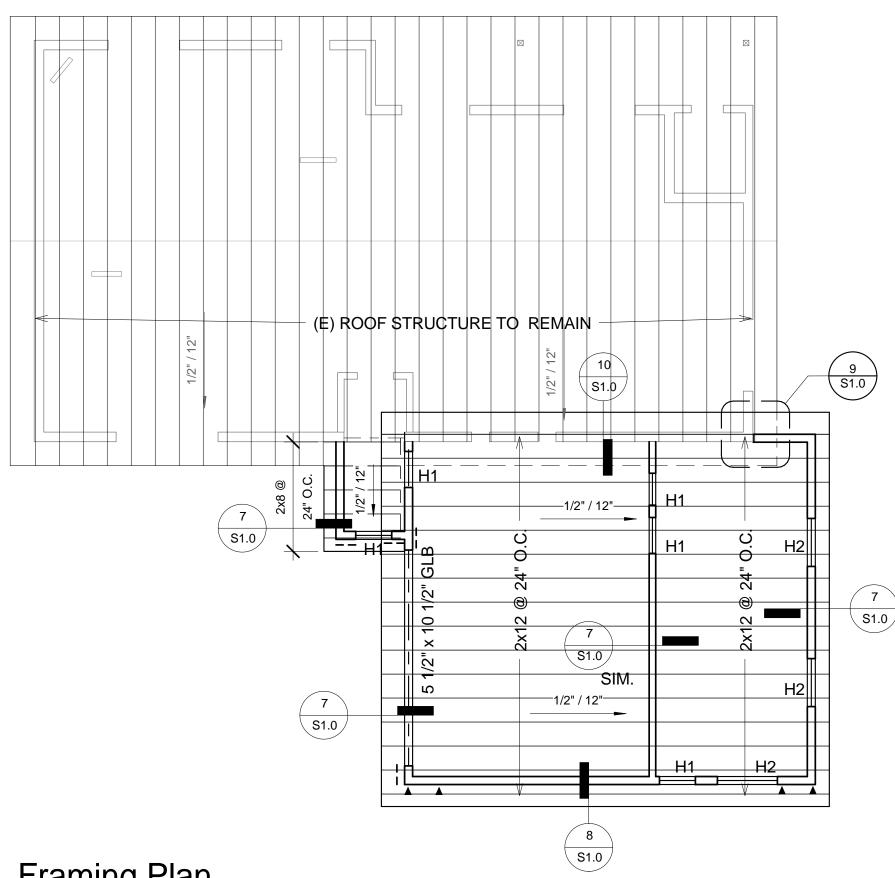


4" CONC. SLAB ON 4" SLOPE TO DRAIN (1) - #4 CONT

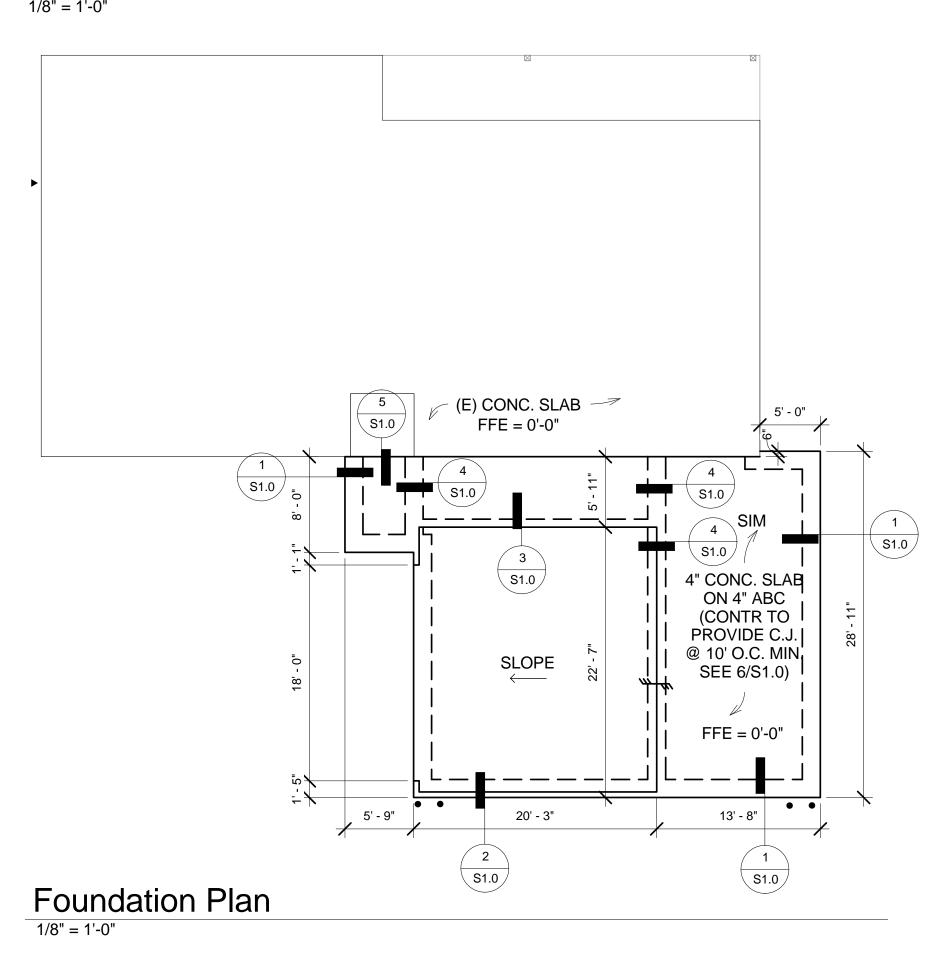


Ext. Ftg. @ Garage





Framing Plan



General Framing Notes

1. All carpentry work shall comply with the requirements of the 2012 International Residential Code (I.R.C.) as adopted and amended by the local jurisdiction having authority.

2. All framing lumber shall comply with the latest edition of the grading rules of the Western Wood Products Association utilizing in-grade stress values. Also all sawn lumber shall be stamped with the grade mark by an approved grading agency.

3. All 2x stud framing at exterior walls shall be @ 16" o.c. and shall be douglas-fir #2 (or better).

4.All sill plates shall be 2x lumber with a width to match the stud wall, and pressure treated for rot resistance. Grade stamps must be present indicating that lumber has been pressure treated for rot resistance. 5. Do not notch or drill trusses, beams, headers, or load bearing studs without prior written approval of the Architect.

6. Use double 2x trimmers under each end of all headers spanning more than 4'-0" or greater in bearing walls, u.n.o.

7. All bearing double and triple 2x studs shall be face nailed with 16d's @ 8" o.c. staggered.

8. <u>Plywood:</u> All plywood shall be C-D interior sheathing with exterior glue and shall bear the stamp of an approved testing agency. Place roof sheathing with the face grain perpendicular to the trusses. Sheathing shall be continuous over 2 or more spans. All sheathing shall be of the following thickness, span index ratio, and shall be nailed with common nails as follows:

> Thickness 1/2" S.I. Ratio 32/16 Nailing: Edge = 8d @ 6" o.c. / Interm. = 8d @ 12" o.c.

Alternate fastening: 14 Ga. x 1 3/4" x 7/16 o.d. galvanized wire staples may be used at the same spacing (NER-272). Thickness 3/8" S.I. Ratio 32/16

Nailing: Edge = 8d @ 6" o.c. / Interm. = 8d @ 12" o.c.

Oriented Strand Board may be used in lieu of plywood (NER-108). 9. Nailing: All nailing shall conform to IRC 2012 11. Design Loads:

Roof Live Load 20 p.s.f. Roof Dead Load 10 p.s.f.

Header Schedule

crown

HEADER MARK	SIZE	GRADE
H-1	(2) 2 X 6	#2 DOUGLAS FIR - LARCH
H-2	(2) X 8	#2 DOUGLAS FIR - LARCH

Braced Wall Panels

1) (MIN. 2'-8" PANEL) 3/8" EA. SIDE 8d (4-12) ALTERNATE BRACED WALL PANEL #1(R602.10.6.2)

— SIMPSON STRONGWALL SSW12

General Foundation Notes:

1. All concrete and earth work shall comply with the requirements of the 2012 Interantional Residential Code as adopted and amended by the local jurisdiction having authority. Concrete work shall be performed per the latest published edition of the A.C.I. Standards.

2. The Architect assumes no liability for soils conditions at the site. 3. All foundations shall bear 12" minimum into native undisturbed soil or into engineered fill. It is recommended that a soils engineer be consulted when engineered fill is used. The Architect assumes no liability for engineered fill. The Architect also assumes no liability for foundations when a soils report prepared by an engineer registered in the State of Arizona is not provided for review by the Architect. All engineered fill shall be tested by a qualified testing lab before placement for suitability and after placement for proper compaction based on the soils report. 4. Slope finished grade away from the building @ a minimum of 5% for a distance of 10' (or half the distance from the property line if the property

line is less than 10' from the building). 5. Concrete: Material used for foundations, stems, building slabs, and exterior concrete flat work shall reach a minimum design strength in 28 days of 2,500 p.s.i. Maximum slump shall be 4 1/2". Mechanically vibrate

all concrete for foundations (except for toe downs),
6. Reinforcing Steel: All #4 bars and smaller shall be FY = 40,000 p.s.i.
and all #5 bars or greater shall be FY = 60,000 p.s.i. (per ASTM A615). All reinforcing steel shall be deformed bars. No welding or heated bending of bars shall be allowed. Welded wire fabric shall be per ASTM A185. 7. Assumed soil bearing pressure 1,500 p.s.i. per I.R.C. 2012

8. Min. 95% compaction 9. Treat soil under slabs for protection against termites. Provide 5 year written guarantee against infestation.

Hold Downs:

HTT4

ΑE DRAWN BY: **CHECKED BY:** ΑE PROJECT 13115 NUMBER:

> ne PI, Tucson Az 85710 495-8907 E-Mail alex@ Designs

alle Centuri Arizona Garage & Veffrey (7025 E Cal Strue

ctural Plan

S1.0

OF

SHT

Water Pressure Calc.

PRESSURE RANGE - 45 PSI (ASSUMED) DESIGN PRESSURE - 5 PSI (ELEVATION) - 15 PSI (THRU FIXTURE) - 3 PSI (THRU METER) 22 PSI (REMAINING)

(PUMBING CONTRACTOR TO VERIFY WATER PRESSURE)

22 PSI X 100 FT = X ALLOW LOSS/100FT

PIPE SIZED @ 8 FT/SEC.

USE 1" METER W/ 1 1/2" BLDG. SERVICE

GAS CALC.

TOTAL GAS LOAD

(E) FURNACE	=	60 CFH
(E) W/H #1	=	50 CFH
(E) RANGE	=	65 CFH
(E) DRYER (RELOCATED) =	35 CFH
TOTAL CFH	=	210 CFH
TOTAL LENGTH	=	80'-0" L.F

* SIZED PER IRC TABLE G2413.4 (1)

0.60 SPECIFIC GRAVITY W/ 0.5 INCH

WATER COLUMN PRESSURE DROP MIN. 1" GAS SERVICE LINE (F.V.)

(E) Fixture Schedule

` '						
MARK	FIXTURE	QTY.	SEWER	TOTAL	WATER	TOTAL
	FULL BATH GROUP	2	5	10	3.6	7.2
	KIT. GROUP	1	2	2	2.5	2.5
	CLOTHES WASHER	1	2	2	1.4	1.4
НВ	HOSE BIBB	3	-	-	2.5	7.5
	TOTAL			14		18.6

NEW Fixture Schedule

MARK	FIXTURE	QTY.	SEWER	TOTAL	WATER	TOTAL
P5	SINK	1	1	1	.7	.7
	FULL BATH GROUP	1	5	5	3.6	3.6
	TOTAL			6		4.3
	TOTAL			20		22.9

(E) 1/2" GAS TO BE EXTENDED AS SHOWN NEW 1/2" GAS √ 1 1/2" V. 2 [`]─ 1/2" <u>P5</u> 6 5

Plumbing Plan 3/16" = 1'-0"

Plumbing General Notes

1. All plumbing work shall be per the 2012 I.R.C. Code as adopted and amended by the local jurisdiction having authority.

2. Where local water pressure is in excess of 80 PSI, a pressure regulating device shall be installed to reduce pressure to a maximum of 80 PSI.

3. Hot water shall always be the left fitting at all faucets. In addition how water pipe shall be insulated w/ R3 at following conditions

a. Piping larger than 3/4-inch nominal diameter.

b. Piping serving more than one dwelling unit. c. Piping from the water heater to kitchen outlets.

d. Piping located outside the conditioned space. e. Piping from the water heater to a distribution manifold.

f. Piping located under a floor slab.

Water Closets

g. Buried piping. h. Supply and return piping in recirculation systems

other than demand recirculation systems. i. Piping with run lengths greater than the maximum run lengths for the nominal pipe diameter. Per Table N1103.4.2

3/8" 1/2" 3/4" >3/4" Pipe size Maximum run length 30 20 10 5 All remaining piping shall be insulated to at least R-3

or meet the run length requirements of Table N1103.4.2

4. Provide all new hose bibs with backflow preventers. 5. All plumbing fixtures shall have the following flow rates:

2.50 gallons per minute maximum Showers 2.20 gallons per minute maximum Lavatory Faucets Kitchen Sink 2.20 gallons per minute maximum

1.50 gallons per flush maximum

6. All copper piping used under the floor slab must be type "L" minimum weight without joints. 7. All copper piping used above the floor slab must be type "M"

minimum weight. 8. All ABS and PVC used in DWV must be schedule 40.

9. Underground piping shall be protected per IRC 2012. 10. Seal all voids around penetrations through on grade floor slabs.

11. Solders and flux having a lead content in excess of two tenths of one percent shall not be used in the installation or repair of any

plumbing in this project. 12. Water hammer arrestor shall be installed where quick-closing valves are used. (IRC 2006 P2903.5)

13. Contr. to install 2 clothes washer standpipes, one with an above grade stubout

14. Gas fuel piping shall be wrought iron or steel - galvanized or

15. Gas fuel piping is not allowed under structures or concrete slabs.

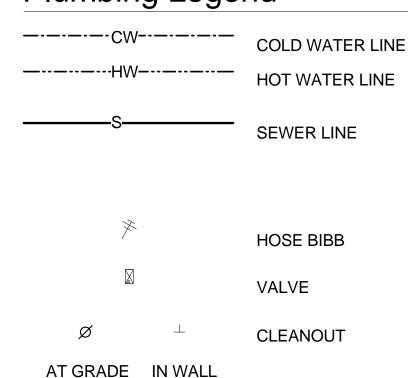
16. All gas appliances shall have a shut-off valve. 17. Underground gas piping systems shall be isolated from above

ground systems by an approved isolation fitting installed at least 6" above grade.

Plumbing Plan Keynotes

- (E) 3/4" CW EXTENDED TO NEW HB LOCATIONS AS SHOWN
- 3/4" CW DN TO NEW HB LOCATION
- 3/4" CW, HW DN IN WALL (RUN 1/2" CW TO WTR CLST 1/2" CW AND HW TO LAVS AND SHWR/TUB & WASHER) 1/2" CW AND HW DN IN WALL
- 2" WCO 1 1/2" VTR
- 2" VTR
- 3" WCO
- PROVIDE NEW 2-WAY GCO F.V EXACT LOCATION (LOCATED MIN. 3' FROM BUILDING) (E) 3" SEWER SEE SITE PLAN FOR CONT.
- NEW 3" WASTE TO CONN. TO EXISTING 3" WASTE F.V.
- **LOCATION**
- 12. 1/2" GAS DN IN WALL

Plumbing Legend



Mechanical Notes

- 1. All mechanical work shall be per the 2006 I.R.C. as adopted and amended by the local jurisdiction having authority.
- 2. All work is to performed in a workman like manner with the most recent publications of SMACNA and ASHRAE used as installation standards

Mechanical Specs.

A/C SPECIFICATIONS

A/C #1 DUCTLESS WALL MTD. SPLIT SYSTEM M18DYF 1 TON SYSTEM FRIEDRICH # MW09Y3FM (INDOOR) C/U #1 HEAT PUMP MULTIZONE FRIEDRICH # MR24DY3FM (OUTDOOR) 208/1/60, 15 MCA 16.5 SEER

OR EQUAL

EF-1 (EXHAUST FAN)

NUTONE, REFER TO PLAN FOR CFM, CLG. MTD. DECORATIVE EXHAUST FAN 115/1/60

EXHAUST UNTI NOTES

1. PROVIDE MANUF'S DISCONNECT, BACKDRAFT DAMPER AND HANGING ISOLATION KIT. 2. PROVIDE MANUF'S ROOF OR WALL CAPS. 3. PROVIDE SEPARATE WALL SWITCH. COORDINATE WITH ELECTRICAL AND ARCHITECT.

REFRIGERANT PIPING NOTES

1. REFRIGERANT'S LINES SIZES AND CONNECTIONS BETWEEN OUTDOOR UNITS AND FAN COIL UNITS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. ROUTING OF LINES TO BE FIELD VERIFY BY THE MECHANICAL CONTRACTOR.

2. IF REFRIG. LINES DISTANCES EXCEED THE MANUFACTURER'S RECOMMENDATIONS PROVIDE LONG DISTANCE KIT.

3. CONNECT REFRIGERANT PIPING TO EACH CORRESPONDING FC AND CU - COORDINATE EXACT LOCATIONS OF CU'S OUTDOORS WITH THE ARCHITECT. SEE DIAGRAM.

Ductless System

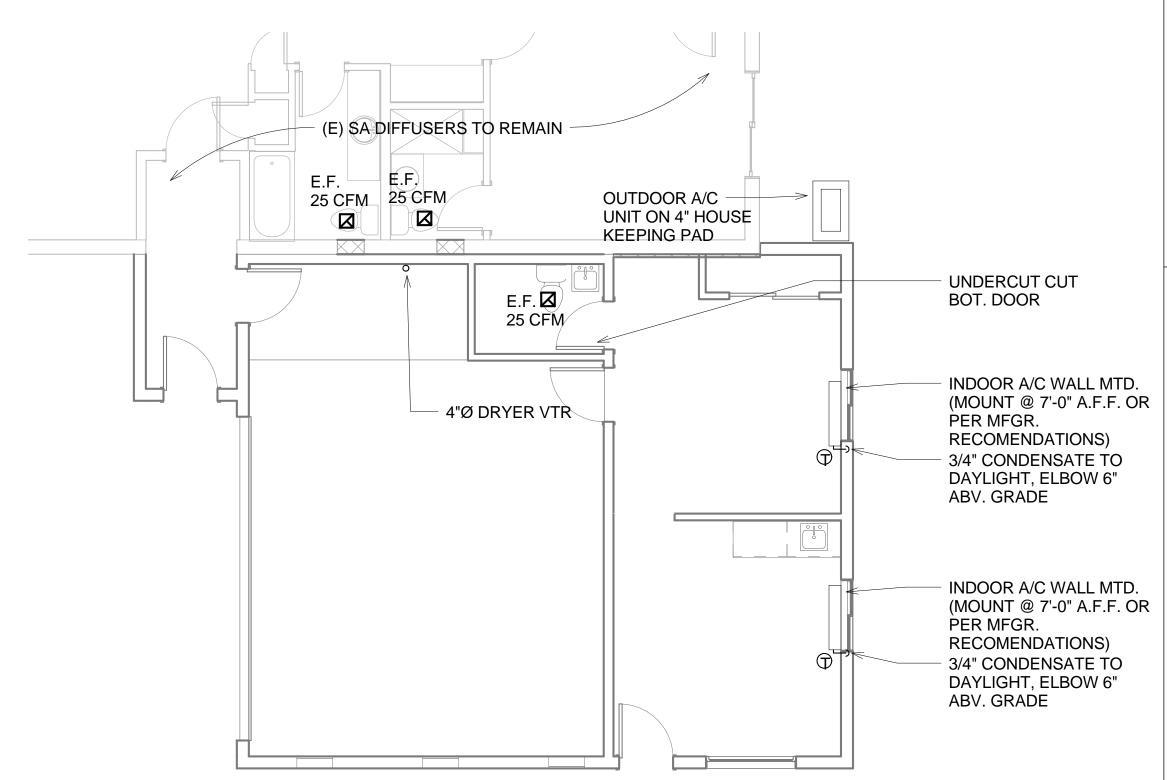
SUPPLY AIR

CU REMOTE OUTDOOR

INSULATED ROOF PLATFORM

1 COND. UNIT ON ROOF

RETURN AIR



Mechanical Plan

MOUNT UNIT ON WALL

REFG. LINES UP IN WALL

ROUTE COND. DN. IN WALL. DAYLIGHT 12" A.F.G.

LIQUID REFG. & SUCT.

PIPING. PROVIDE

PIPE SUPPORTS AS REQ'D.

THERMOSTAT

TO CONDENSING UNIT

4" BELOW CEILING.

3/16" = 1'-0"

ΑE DRAWN BY: ΑE

CHECKED BY: PROJECT 13115 NUMBER:

ne Pl, Tucson Az 85710 495-8907 E-Mail alex@ Designs

or: Workshop Centuri Arizona Garage Jeffre 7025 E (Tucso

anical Plan

Mech

MP1.0

SHT OF

		ECT	RICA	ALP	ANI	EL A	
PANE	EL = _"A" VO	OLTAGE	120/240\	/	BUS	200A_ MAIN _MA	NIN_
TYPE	PLUG - ON		SHORT	CIRCUIT	_10KA	SURFACE MOU	INTE
#	ROOM NAME		фА	фв		ROOM NAME	#
1	EXISTING HOUSE SERVICE 1	2			2	EXISTING HOUSE SERVICE 2	2
3		40			40		4
5	NEW A/C	2			2	DRYER	6
7		40			30	\	8
9	INDOOR A/C	1 20			1 20	INDOOR A/C	1
11	EXT. LTS	1 20			1 15	GARAGE RCPT.	1
13	GARAGE DR.	1 20			1 20	EXT. WP/GFI	1
15	GARAGE LTS	1 20			1 20	WASHER	1
17	BATH GFI	1 20			1 20	LTS & RCPT	1
19	APPLIANCE GFI	1 20			1 20	APPLIANCE GFI	2
21	SMK DET.	1 20			1 20	REF.	2
23							2
25							2
27							2
29							3
31							3
33							3
35							3
37							3
39							4
41							4

SEE LOAD CALCULATIONS

Electrical Load Calculations

PANEL "A" (SERVICE) 2,301 SF X 3VA RANGE WTR HTR 1 DRYER 8 (20 AMP CIR.)	= 6,903VA = (GAS) = (GAS) = 4,500 VA = 12,000VA
SUBTOTAL	= 23,403VA
1ST 10,000VA @ 100% 13,403 @ 40%	= 10,000VA = 5,361 VA
CALCULATED TOTAL LOAD 15361VA / 240V	= 15,361VA = 64A
NEW AC #1	= 15A
TOTAL	= 79A

Outdoor Lighting Code

1. OUTDOOR LIGHTING CODE AREA: E3 2. TOTAL SITE AREA: .20 ACRES

3. ALLOWABLE LU:

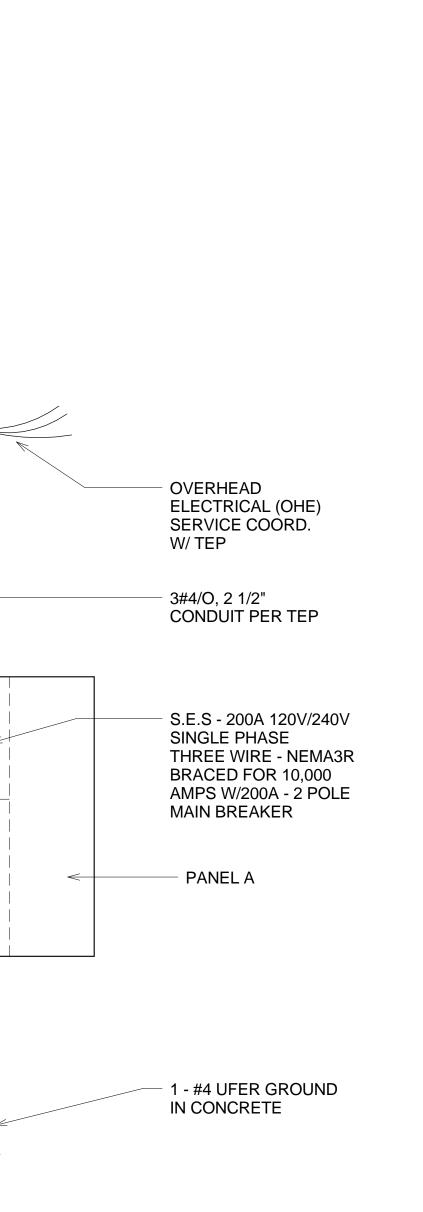
FULLY SHIELDED

UNSHIELDED

= 55.000 x.2 = 11.000= 11,000x.2 = 2,200

4. ACTUAL INSTALLED LU = 11,000 > 1000 **OK** 2,200 > 2000 **OK**

FIXTURE TYPE	QUANTITY	LU./EA.	SHIELDED	UNSHIELDE
Α	2	1000	-	2000
EXISTING	1	1000	1000	-



Electrcial Riser Diag

GROUND TO

WATER

INCOMING POTABLE

Power Plan 3/16" = 1'-0"

ALL EXISTING EXPOSED EXT. ELECTRICAL LINES TO BE PLACED IN METAL CONDUIT PER IRC SEC. 3804 2012 EXISTING (2) 30A FUSE SERVICE TO BE REPLACED W/ NEW 120/240V 1Ø WP SES -200A RESIDENTIAL LOAD CENTER A 21 SD O O SD/ O O SD/ CM CM A 21 A 15 A 12 A 16 A 6,8 A 18 A 21 O SD A 21 A 22 A 19 A 20 O SD/

General Electrical Notes

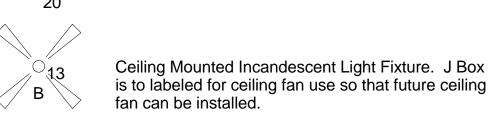
- All electrical work shall comply with the requirements of the 2012 I.R.C. as adopted and amended by the local jurisdiction having
- Receptacle placement and spacing shall comply with the 2012
- Receptacles in Bathrooms, receptacles located within 6' of a sink, and outdoor receptacles shall be protected by a ground fault interrupting circuit (GFCI). Outdoor receptacles shall in addition receive a weather proof enclosure.
- All counter receptacles are to be GFCI protected.
- Two or more 20 amp small appliance circuits shall be provided to serve the Kitchen. Such circuits shall have no other receptacles.
- Provide a separate 120 volt, 20 amp circuit in the laundry Room for the washing machine. This circuit is to have no other outlets.
- 7. Junction boxes supporting future ceiling fans must be listed,
- approved and installed for this application. All surface mounted ceiling fixtures in closets shall be installed 24" minimum from all shelving.
- Smoke detectors shall be installed per the manufacturer's instructions. Detectors shall be permantly wired, interconnected, and equiped with battery back-up. Detectors shall be a minimum of 5' feet from duct openings. All installed smoke detectors located outside of bedroom shall have a built in carbon manoxide alarm.
- All interior metalic water and gas pipe which may become energized shall be bonded together and made electrically continuous. A bond (bare copper #4 wire) shall be made between the bonded piping systems, the grounding electrode conductor and the service equipment enclosure ground buss.
- 11. The grounding electrode conductor shall be not less than 20' of bare copper wire conductor no smaller than #4 encased by at least 2" of concrete and located within the bottom of a concrete
- foundation footing that is in direct contact with the earth. 12. The telephone service shall be grounded per the 2012 I.R.C.
- All light fixtures shall be incandescent fixtures. 14. All new recepticals to be arc fault protected that are not designated as GFI or WP/GFI as well as all recepticals shall be tamper proof per E4002.14
- All luminaries located above tubs and showers are to be listed for wet/damp locations
- Min. 75% all permanently installed light fixtures shall have a High Efficiency lamp installed. See plan for Locations

Electrical Wire Sizes

100A	= #2
60A	= #6
40A	= #8
30A	= #
20A	= #
15A	= #

Electrical Legend

- Light Switch
- 3-Way Light Switch 4-Way Light Switch
- Receptacle (number indicates circuit, typ.)
- Weather Proof/GFCI Receptacle WP/GFI
- 240 Volt Receptacle (numbers indicate circuits, typ.)
- Floor Receptical
- SD 16 **Smoke Detector**
- SD/CM Smoke Detector with Carbon Monoxide Alarm
- Ceiling Mounted Incandescent Light Fixture
- Recessed Can Light Light Fixture
- Wall Mounted Incandescent Light Fixture Low Voltage Door Bell Chime
- Door Bell Button
- Motor (Exhaust Fan/Garage door) \wp



Disconnect Switch

Television Jack

Telephone Jack

A 11

High Efficiency Lamp installed on light fixture

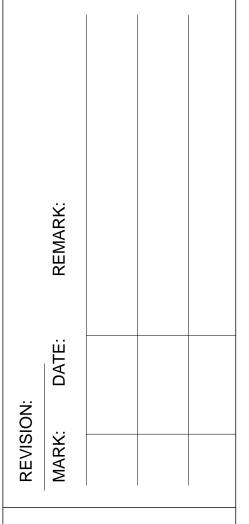
ΑE DRAWN BY: CHECKED BY: ΑE PROJECT NUMBER: 13115

Designs

alle Centuri Garage & Jeffrey 7025 E Cal Tucson,

Lighting Plan

Power/I



E1.0

OF SHT