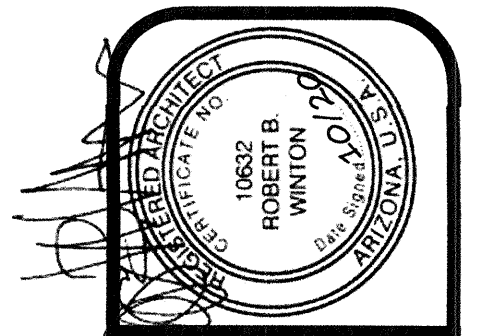


# LIN'S GRAND BUFFET

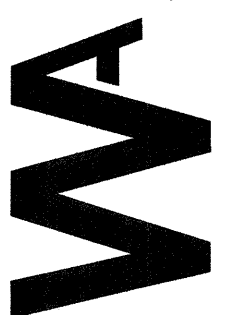
## HWY 287 AT PEARL RD.

### CASA GRANDE, ARIZONA

### LOGOS BUILDERS SOUTHWEST



**winton architects, inc.**  
 Phoenix, Az. 85014  
 1435 E. Rancho Drive  
 (602) 230-9778  
 wintonarch@gmail.com



**REMODEL FOR RESTAURANT**  
 1564 E. FLORENCE BLVD.  
 CASA GRANDE, ARIZONA  
 LOGOS BUILDERS SOUTHWEST

job no. 20118  
 drawn LB  
 approved RBW  
 date 7/10/20

revisions

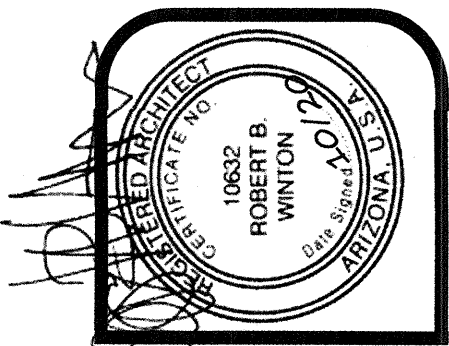
**COVER**  
 47

#### SCHEDULE OF SHEETS

Cover	General Construction Notes, Schedule of Sheets
SP-1	Site Plan, Project Data
D-1	Demolition Plan
A-1	Foundation Plan
A-2	Floor Plan
A-2.1	Overall Floor Plan, Keynotes
A-3	Exterior Elevations
A-4	Building Sections
A-4.1	Building Sections
S-1	General Structural Notes
S-2	Footing Details
S-3	Foundation Plan
M-1	Mechanical Floor Plan
M-2	Mechanical Notes, Schedules
P-1	Plumbing Floor Plan-Waste, Vent piping
P-2	Plumbing Floor Plan- Water Piping
P-3	Plumbing Floor Plan- Gas Piping
P-4	Waste and Vent Diagram, Notes
E-0.0	Electrical Specifications
E-0.1	Electrical Equipment Requirements
E-1.0	Electrical Power Plan
E-2.0	Electrical Lighting Plan
E-3.0	Electrical HVAC Plan
E-4.0	Panel Board Schedule
E-5.0	One Line Diagram
FS1.0	Equipment Floor Plan
FS1.1	Equipment Schedule
FS1.2	Equipment Schedule
FS2.0	Plumbing Rough In Plan
FS2.1	Plumbing Rough In Plan
FS2.2	Plumbing Rough In Plan
FS2.3	Plumbing Rough In Plan
FS3.0	Electrical Rough In Plan
FS4.0	Mechanical Rough In Plan
FS4.1	Mechanical Specifications
FS4.2	Mechanical Specifications
FS4.3	Mechanical Specifications
FS4.4	Mechanical Specifications
FS4.5	Mechanical Specifications
FS4.6	Mechanical Specifications
FS4.7	Mechanical Specifications
FS4.8	Mechanical Specifications
FS4.9	Mechanical Specifications
FS4.10	Mechanical Specifications
FS4.11	Mechanical Specifications
FS5.0	Special Conditions Plan
FS6.0	Walk In Specifications

#### GENERAL CONSTRUCTION DOCUMENT NOTES

- The contractor or sub contractor will inspect the premises prior to his commencing work to check existing working conditions. Should contractor or subcontractor find conditions which he believes would impede his work, then such conditions must be reported immediately to the architect. Failure to so advise will constitute notice that the contractor is fully satisfied and that he intends to perform his obligations with no allowance either in time or money for any impediments to his work.
- Contractor shall verify all dimensions and conditions in field. If dimensional error occurs or conditions not covered on the drawings is encountered, contractor shall notify the architect before commencing that portion of the work.
- Details, notes and finishes shall be applicable to all typical conditions whether or not referenced at all places.
- The contractor shall take all necessary precautionary measures to protect the public and adjacent properties from damages throughout construction. He shall meet the latest requirements of the United States Department of Labor Occupational Safety and Health Standards and comply with: the Manual of Accident Prevention in Construction; all applicable safety and sanitary laws, regulations and ordinances; and any safety rules or procedures established by the Owner for the project.
- The contractor is exclusively responsible for loss or expense resulting from injury on the project site. He assumes all risks in the performance of the work and is responsible for supervision, materials, equipment and labor required to implement the plans and specifications.
- The contractor is solely responsible for supervision, safety, administration and all phases of its contract. He is also responsible for scheduling, coordinating, management and administration or sub consultants.
- The contractor shall verify any new mechanical unit loads at roof and/or suspended below and their locations. Notify the architect of any changes in size or location.
- The contractor shall verify the location of existing utilities and protect the same.
- All work shall comply with all applicable codes and ordinances.
- All manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the manufacturer's written specification or instruction unless hereinafter specified to the contrary.
- Dimensions take precedence over scale or construction documents.
- All work shall be executed in a neat and workmanlike manner, acceptable to Owner.
- When work not specifically called out is required to complete the project, it shall be provided and be of the best materials and workmanship.
- Contractor shall guarantee all workmanship and materials for a period of one year from the date of substantial completion (in writing).
- Unless otherwise specifically noted, the contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for proper execution and completion of the work.
- The contractor shall pay for all fees, permits, etc. necessary for proper completion of work. (U.N.O.)
- The contractor warrants to the owner and the architect that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be good quality, free from faults and defects and in conformance with the construction documents. All work not conforming to these standards may be considered defective. It is understood that no inferior or non-conforming work or materials will be accepted whether discovered at the time they are incorporated in the work or at any time before or after final acceptance. If required by the architect, the contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.
- The warranties and guarantees provided in the construction documents shall be in addition to and not in limitation of any other warranty or guaranty or remedy required by law or by the construction documents.
- The contractor is to provide warning signs and lights, barricades, railings and other safeguards.
- The design professional's inspection for compliance with the plans and specifications shall NOT be deemed supervision or control of construction means or methods employed by the contractor or any subcontractor.



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**WA**

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 OWNER 10/23/20  
 OWNER 1/18/21

**SP-1**

**PROJECT DATA**

ADDRESS: 1564 E. Florence Blvd  
 ZONING: PAD  
 CONSTRUCTION TYPE: VB, AFES  
 ALLOWABLE AREA: 24,000 SF  
 OCCUPANCY: A-3  
 BUILDING HEIGHT: 26'-4"  
 BUILDING AREA: Existing= 5132 SF  
 New Addition= 329 SF  
 Total= 5,461 SF

PARKING REQUIRED: 90% x 5461=4915/100= 50 Spaces

PARKING PROVIDED: 62 Spaces

ACCESSIBLE SPACES REQUIRED: 3 Spaces

ACCESSIBLE SPACES PROVIDED: 3 Spaces

SEATING CAPACITY: TBD

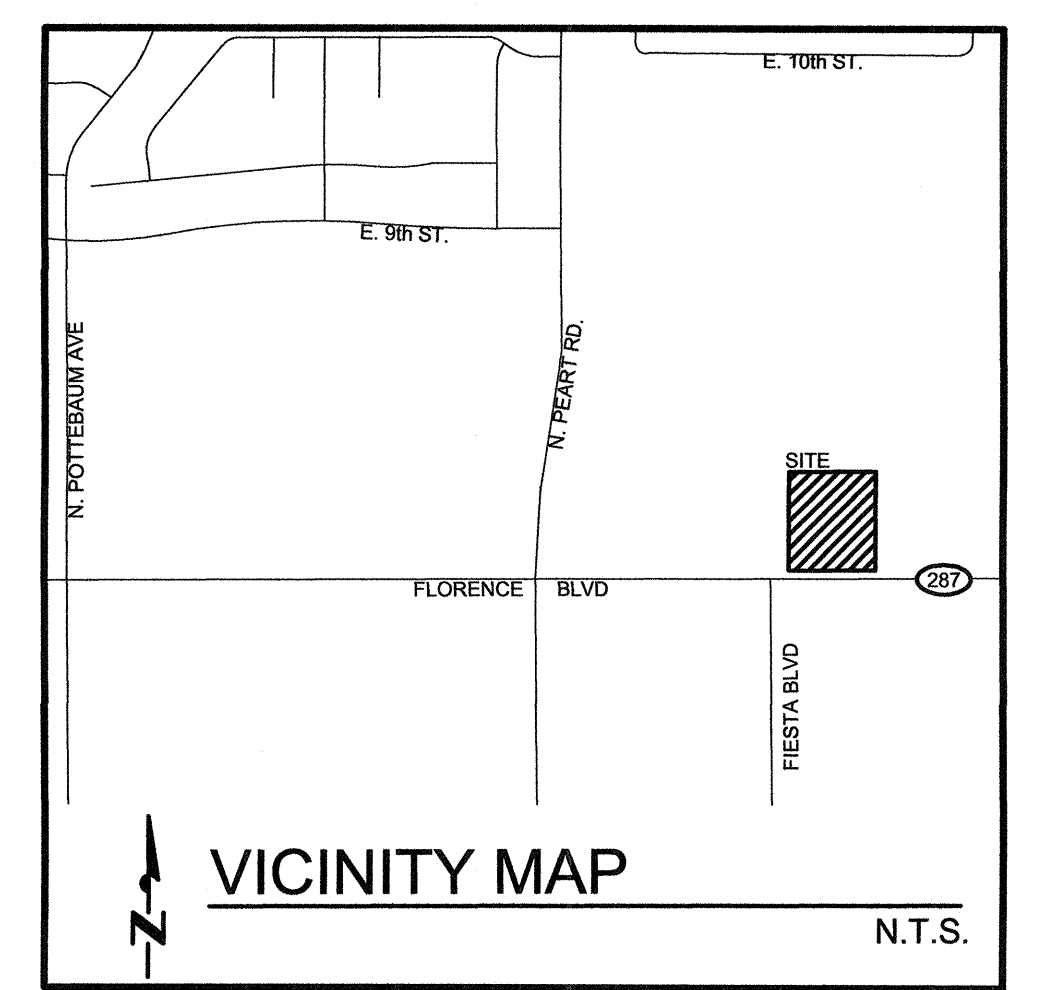
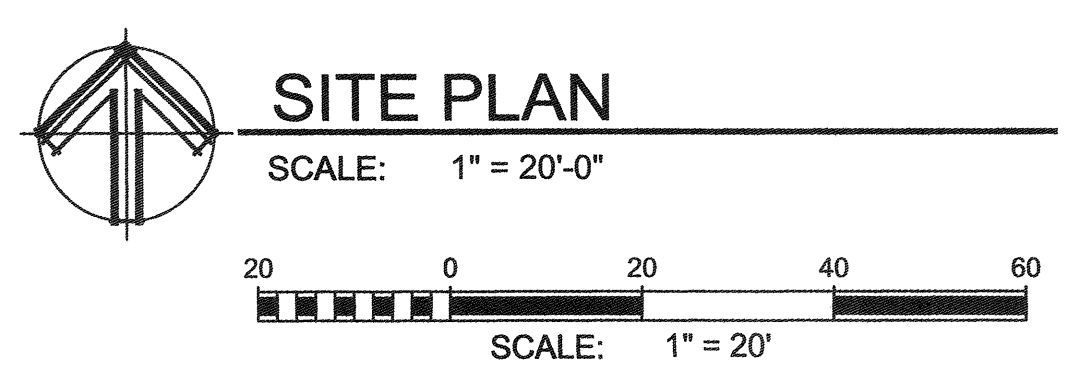
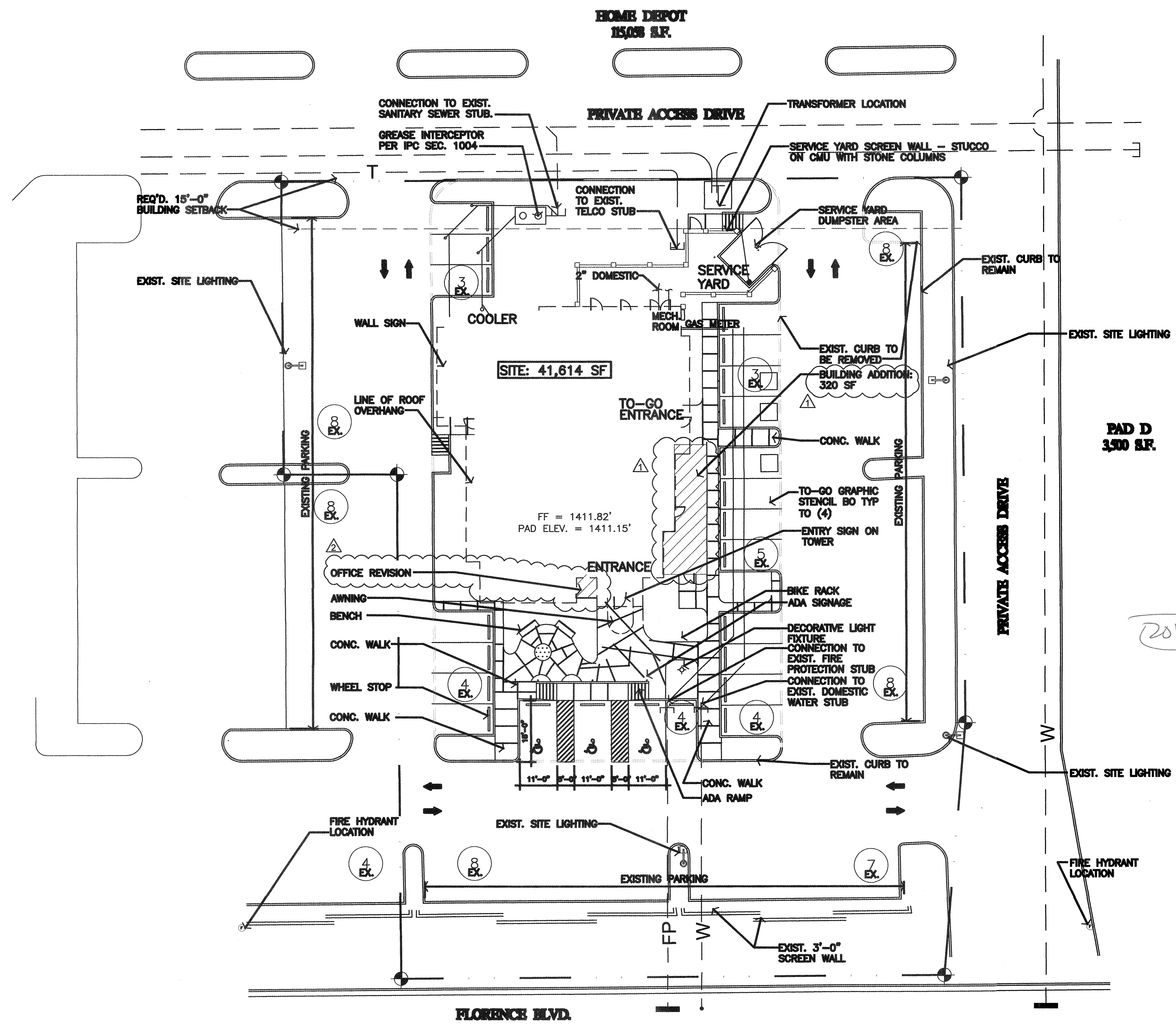
LEGAL DESCRIPTION: PAD 'C' - Casa Grande Market

**APPLICABLE CODES**

- 2017 National Electrical Building Code (NEC)
- 2018 International Building Code (IBC)
- 2018 International Energy Conservation Code (IECC)
- 2018 International Existing Building Code (IEBC)
- 2018 International Fire Code (IFC)
- 2018 International Fuel Gas Code (IFGC)
- 2018 International Mechanical Code (IMC)
- 2018 International Plumbing Code (IPC)
- City of Casa Grande Building and Technical Administration Code, 2019 Edition

**SCOPE OF WORK**

*This is an existing Restaurant that is being converted to a Chinese Restaurant. The inside was based on drawings could be created for a new permit. Work includes Structural, Mechanical, Electrical, Plumber/Plumbing and Kitchen Range Damp.*



# GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED OTHERWISE

## BUILDING CODE:

2010 EDITION OF THE INTERNATIONAL BUILDING CODE.

## LOADS:

ROOF LIVE LOAD = 20 PSF (REDUCIBLE).  
 TOTAL ROOF DEAD LOAD = 30.0 PSF.  
 RAIN INTENSITY, I = 2.5 IN/HR.  
 V<sub>50</sub> = 105 MPH WIND SPEED, EXPOSURE C.  
 RISK CATEGORY = II  
 INTERNAL PRESSURE COEFFICIENT, C<sub>pi</sub> = ± 0.18.  
 DIRECTIONAL PROCEDURE (CHAPTER 27, ASCE 7-10).  
 COMPONENTS AND CLADDING (CH. 30, PART 1).  
 WALLS (10'-15'): +10.3 PSF/-11.0 PSF.  
 WALLS (15'-20'): +14.4 PSF/-12.0 PSF.  
 WALLS (20'-25'): +20.3 PSF/-22.0 PSF.  
 ROOF ZONE 1: -24.3 PSF.  
 ROOF ZONE 2: -31.0 PSF (AT RIDGES).  
 ROOF ZONE 2: -42.0 PSF (AT OVERHANGS).  
 ROOF ZONE 3: -48.2 PSF (AT CORNERS).  
 SEISMIC CRITERIA:  
 SEISMIC USE GROUP II  
 SEISMIC DESIGN CATEGORY B  
 S<sub>s</sub> = 0.25  
 S<sub>1</sub> = 0.08  
 SITE CLASS D  
 S<sub>0.8</sub> = 0.1287  
 SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0  
 BASIC SEISMIC FORCE RESISTING SYSTEM = A<sub>0</sub> - INTERMEDIATE REINFORCED MASONRY SHEAR WALLS.  
 ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE ANALYSIS.

## FOUNDATIONS:

SPREAD FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL 1'-6" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. PRESUMED DESIGN SOIL BEARING VALUE = 1500 PSF. USING IBC TABLE 1206.2, CLASS 4, SM MATERIAL. FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

## CONCRETE:

MINIMUM 28 DAY STRENGTH 3,000 PSI EXCEPT AS FOLLOWS:

SLABS ON GRADE	3,000 PSI
FOUNDATIONS	2,500 PSI

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC. MAXIMUM SLUMP 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET. KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 10% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED.

## REINFORCING:

ASTM A615 (F<sub>y</sub> = 60 KSI) DEFORMED BARS FOR ALL BARS. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER	2"
#6 OR LARGER	1 1/2"
#5 AND SMALLER	1 1/2"

ALL OTHER PER LATEST EDITION OF ACI 318.

## LAP SPLICES IN CONCRETE:

LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOVEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

## DRYPACK:

DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASEPLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

## STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE ASTM A992 (F<sub>y</sub> = 50 KSI). ALL CHANNELS, ANGLES, AND PLATES SHALL BE ASTM A36 (F<sub>y</sub> = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (F<sub>y</sub> = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (F<sub>y</sub> = 35 KSI). ALL TUBE STEEL SHALL BE ASTM A500 (F<sub>y</sub> = 46 KSI). ALL BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL CONSTRUCTION PER LATEST AISC SPECIFICATION (PARTS 1-4) APPLY PER HANDBOOK. (CODE OF STANDARD PRACTICE DOES NOT APPLY). ALL EXPANSION AND EPOXY BOLTS TO HAVE I.C.C. RATINGS FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY ETO SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

## WOOD:

### SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL CONFORM TO THE FOLLOWING STANDARDS AND HAVE THE FOLLOWING MINIMUM PROPERTIES:

	WOOD TYPE	F <sub>b</sub> (PSI)	F <sub>v</sub> (PSI)	E (PSI)	F <sub>c</sub> (PSI)	
JOISTS	2 x 4	D.F. STANDARD	575	180	1,400,000	1,400
	2 x 6 OR LARGER	D.F. #2	900	180	1,600,000	1,250
BEAMS	2x 4x 4k	D.F. #1	1,000	180	1,700,000	1,300
	WIDTH GREATER THAN 4"	D.F. #1	1,250	180	1,600,000	925
TOP PLATES	D.F. #2	900	180	1,600,000	1,250	
	D.F. STANDARD	575	180	1,400,000	1,400	
STUDS	2 x 4	D.F. #2	900	180	1,600,000	1,250
	2 x 6 OR LARGER	D.F. #2	900	180	1,600,000	1,250
POSTS	4 x 4	D.F. #2	900	180	1,600,000	1,250
	4 x 6 OR LARGER	D.F. #2	900	180	1,600,000	1,250
	6 x 6 OR LARGER	D.F. #1	1,250	180	1,600,000	925

VALUES SHOWN ABOVE ARE FROM TABLE 4A AND 4D OF THE 2012 NDS SUPPLEMENT, AND DO NOT INCLUDE ANY OF THE ADJUSTMENT FACTORS SUCH AS C<sub>p</sub>, C<sub>t</sub>, C<sub>d</sub>, AND C<sub>e</sub>. THE CALCULATIONS FOR THIS PROJECT INCLUDE THE ADJUSTMENT FACTORS AS APPLICABLE.

### GLUED-LAMINATED BEAMS (GLULAM):

GLUED-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F<sub>b</sub> = 2,400 PSI, F<sub>v</sub> = 145 PSI, F<sub>c</sub> (PERPENDICULAR) = 650 PSI, E = 1,800,000 PSI. BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND NCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS.

ALL EXPOSED GLULAM BEAM TO EXTERIOR CONDITIONS (ROT/DECAY, AND INSECT ATTACK) SHALL BE PRESURE TREATED. THE TREATMENT SHALL BE IN ACCORDANCE WITH AITC TECHNICAL GUIDELINES. THE TREATMENT SHALL BE A CLEAN, NON-SWELLING, NON-LEACHING TREATMENT THAT IS INTENDED FOR ABOVE GROUND EXTERIOR APPLICATIONS.

### PLYWOOD:

ALL PLYWOOD SHALL BE C-D INTERIOR SHEATHING, STRUCTURAL 2 OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH GRAIN PERPENDICULAR TO SUPPORTS, STAGGER JOINTS. ALL NAILING, COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE:

USE	THICKNESS	SPAN/INDEX RATIO	EDGE ATTACHMENT	INTERMEDIATE ATTACHMENT
ROOF	1/2"	32/16	10d @ 6" O.C.	10d @ 12" O.C.
SHEAR WALL	1/2"	32/16	10d @ 6" O.C.	10d @ 12" O.C.

### ALTERNATE:

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. WHERE ROOF IS TO BE GUARANTEED, IT MAY NOT BE USED WITHOUT PRIOR APPROVAL FROM BUILT-UP ROOF SYSTEM MANUFACTURER. RATED SHEATHING SHALL COMPLY WITH I.C.C.O. REPORT NO. ESR-2586, EXPOSURE 1, AND SHALL HAVE A SPAN RATINGS EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/2") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

### GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THRU THE ARCHITECT. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND AS REQUIRED UNDER BEAMS IN BEARING WALLS. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2504.9.1 OF THE INTERNATIONAL BUILDING CODE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL.

### EPOXY ANCHORS: (ESR-2508) & (UES ER-265)

FOR MINIMUM BOLT EMBEDMENT LENGTH, SEE TYPICAL DETAIL. CONTRACTOR SHALL SUBMIT MANUFACTURER'S SIZE AND STRENGTH DATA TO ENGINEER THROUGH ARCHITECT PRIOR TO CONSTRUCTION. INSTALL ALL BOLTS AS OUTLINED IN MANUFACTURER'S SPECIFICATIONS, UTILIZING PROPER SIZE AND TYPE OF DRILL, CLEANING HOLE, DRIVING AND TIGHTENING BOLT. NOTES LISTED ABOVE ARE FOR CARBON STEEL SIMPSON SET-XP EPOXY ANCHORS.

### SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW.

VERIFY ALL DIMENSIONS WITH ARCHITECT AND ALL FINISHED GRADE WITH CIVIL DRAWINGS.

ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVISIONS IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

## GENERAL:

ENTIRE CONTRACT DOCUMENTS SHALL BE USED TO BUILD BUILDINGS. SOME CRITICAL ITEMS REQUIRED BY OTHER DISCIPLINES MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS (i.e. WALL, FLOOR AND ROOF OPENING, ARCHITECTURAL, MECHANICAL AND PLUMBING LOADS, SUPPORT PLATES ETC.)

ITEMS SHOWN BY OTHER DISCIPLINES WITH REFERENCE TO STRUCTURAL DRAWINGS BUT NOT SHOWN ON THESE STRUCTURAL DOCUMENTS SHALL BE CONSIDERED DESIGN BUILD ITEMS. CONTRACTOR SHALL SUBMIT DESIGN BY OTHERS FOR REVIEW.

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF HE CHOOSES AN OPTION, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

ALL DIMENSIONS SHOWN (INCLUDING ELEVATIONS) ON STRUCTURAL DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL AND FINISHED GRADE WITH CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF ARIZONA.

## SPECIAL INSPECTION:

PER IBC SECTION 1704, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS:

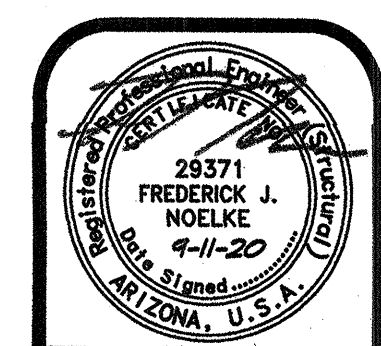
- EXPANSION AND EPOXY ANCHORS.
  - DURING PLACEMENT AND INSTALLATION OF ANCHORS.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR.
  - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
  - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
  - UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

# INTERPRETATION OF DRAWINGS

PLAN LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	DETAIL CUTS SHOWN ON PLANS	TYPICAL DETAILS ARE TWO DIGIT SERIES NUMBERS FOUNDATION DETAILS ARE 100 SERIES DETAILS FRAMING DETAILS ARE 200 SERIES NUMBERS
	WOOD STUD WALL U.N.O.	SEE G.S.N., PLANS & SCHED. FOR SIZE AND SPACING
	MECHANICAL EQUIPMENT	SEE PLANS FOR UNIT WEIGHTS
	OPENING IN FRAMING	SEE NOTE #4

NOTES	
1.	FOR MATERIAL STRENGTHS, SEE GENERAL STRUCTURAL NOTES
2.	VERIFY ALL DIMENSION WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION - RESOLVE ANY DISCREPANCIES WITH ARCHITECT.
3.	FOR CLARITY, ALL EXTERIOR GLASS AND SIDEWALKS MAY NOT BE SHOWN FOR EXACT DIMENSIONS, LOCATIONS, JOINT AND SCORE LINES, SEE ARCHITECTURAL DRAWINGS
4.	FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON FRAMING PLANS. FOR EXACT SIZE, NUMBER, AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS. VERIFY ALL SIZES, HEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR THROUGH ARCHITECT.
5.	DETAILS MARKED "TYPICAL" MAY NOT BE CUT ON PLANS.
6.	CONC C.I. - AS SHOWN ON PLAN INDICATES LOCATION OF EITHER KEYED OR SAW CUT CONTROL JOINT IN SLAB ON GRADE AT CONTRACTOR'S OPTION, SEE GENERAL STRUCTURAL NOTES AND PLANS.
7.	MAS C.I. - AS SHOWN ON PLAN INDICATES MASONRY CONTROL JOINT IN MASONRY WALL, SEE G.S.N. AND TYPICAL DETAIL.
8.	FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
9.	CONTRACTOR TO VERIFY, AND BE RESPONSIBLE FOR VARIATIONS IN CONCRETE QUANTITY DUE TO CAMBER, CONSTRUCTION DEAD LOAD DEFLECTIONS AND/OR TOLERANCES OF STRUCTURAL STEEL ELEMENTS (i.e. BEAMS, STEEL DECK, ETC.) AND PRECAST CONCRETE ELEMENTS.
10.	ALL SCHEDULE MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THE PLANS WHERE THE SCHEDULES OCCUR. SCHEDULES ARE TYPICAL TO THE PROJECT.

ABBREVIATIONS			
A.B.C.	AGGREGATE BASE COURSE	HORIZ.	HORIZONTAL
A/C	AIR CONDITIONER	K(KIP)	1000 POUNDS
A.F.F.	ABOVE FINISHED FLOOR	L.L.	LIVE LOAD
ALT.	ALTERNATE	LES (W)	POUNDS
A.B.	ANCHOR BOLT	LLH	LONG LES HORIZONTAL
#	AT (MEASUREMENT)	LLV	LONG LES VERTICAL
B.F.F.	BELOW FINISHED FLOOR	MFR(S)	MANUFACTURER(S)
B.O.B.	BOTTOM OF BEAM	MAS C.I.	MASONRY CONTROL JOINT
B.O.D.	BOTTOM OF DECK	MECHL	MECHANICAL
B.O.F.	BOTTOM OF FOOTINGS	N/A	NOT APPLICABLE
BRG	BEARING	N.T.S.	NOT TO SCALE
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
C.L.	CENTERLINE	O.F.M.	OUTSIDE FACE OF WALL
C.L.B.	CENTERLINE OF BEAM	OPF	OPPOSITE
C.L.C.	CENTERLINE OF COLUMN	P.A.F.	POWER RATED FASTENERS
C.L.F.	CENTERLINE OF FOOTING	P.C.	PRECAST CONCRETE
C.L.N.	CENTERLINE OF WALL	P.J.	PANEL JOINT
CLR	CLEAR	PLF	POUNDS PER LINEAR FOOT
CONC	CONCRETE	PRFAB	PREFABRICATED
CONC C.I.	CONCRETE CONTROL JOINT	PSF	POUNDS PER SQUARE FOOT
C.M.U.	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	REINF	REINFORCING
D.L.	DEAD LOAD	SLH	SHORT LES HORIZONTAL
# OR DIA.	DIAMETER	SLV	SHORT LES VERTICAL
DN	DOWN	SM	SIMILAR
DWS(S)	DRAWING(S)	SQ.	SQUARE
E.O.S.	EDGE OF SLAB	STD	STANDARD
EQ	EQUAL	TL	TOTAL LOAD
EQUIP	EQUIPMENT	T.O.B.	TOP OF BEAM
EXP. BOLT	EXPANSION BOLT	T.O.D.	TOP OF DECK
EXP. JT (E.L.)	EXPANSION JOINT	T.O.F.	TOP OF FOOTING
E.M.	EACH WAY	T.O.L.	TOP OF LEDGER
F.F.	FINISHED FLOOR	T.O.M.	TOP OF MASONRY
F.O.M.	FACE OF MASONRY	T.O.P.	TOP OF PLATE
F.O.S.	FACE OF STEEL	T.O.S.	TOP OF STEEL
F.O.N.	FACE OF WALL	T.O.N.	TOP OF WALL
GA	GAGE	TYP.	TYPICAL
GALV.	GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
G.S.N.	GENERAL STRUCTURAL NOTES	VERT.	VERTICAL
GLB (GLULAM)	GLUED-LAMINATED BEAM	W.L.F.	WELDED WIRE FABRIC
I.F.W.	INSIDE FACE OF WALL	W	WITH
H.S.	HEADED STUD	W/O	WITHOUT

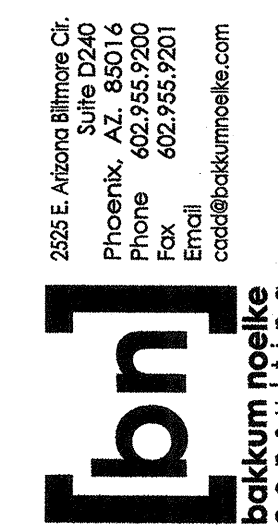


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 1110 E. Missouri Ave., Suite 800, Phoenix, Arizona 85014  
 (602) 230-9778 FAX (602) 265-9739

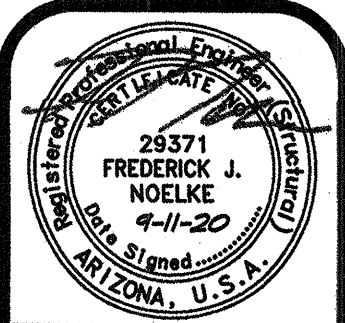
**REMODEL FOR RESTAURANT**  
 HWY 287 @ PEARL ROAD  
 CASA GRANDE, ARIZONA  
 LOGOS BUILDERS SOUTHWEST

job no. 20-244  
 drawn DTR  
 approved FJN  
 date 9/11/20

revisions



**S-1**



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 1110 E. Missouri Ave., Suite 800, Phoenix, Arizona 85014  
 (602) 230-9778 FAX (602) 265-9739

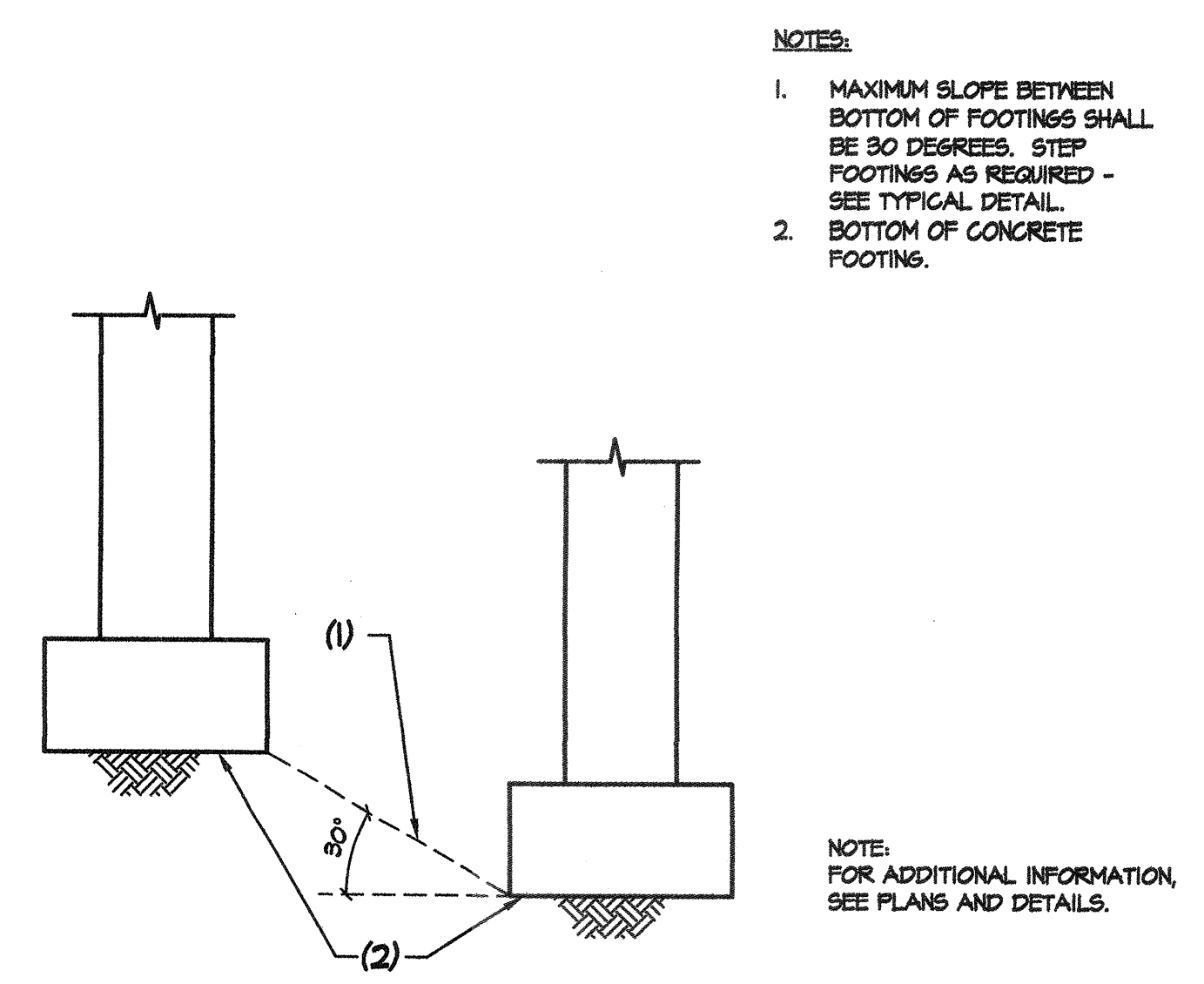
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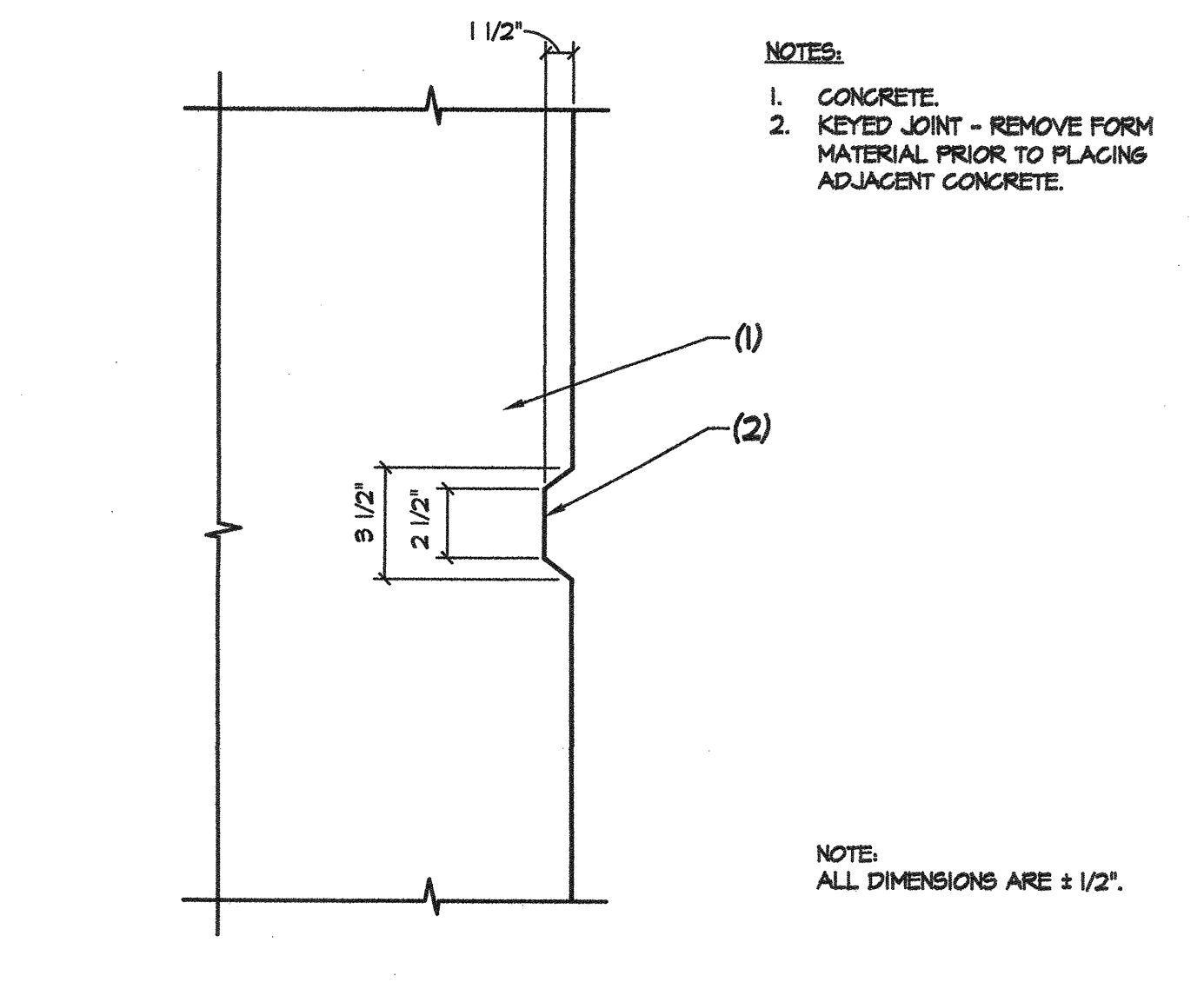
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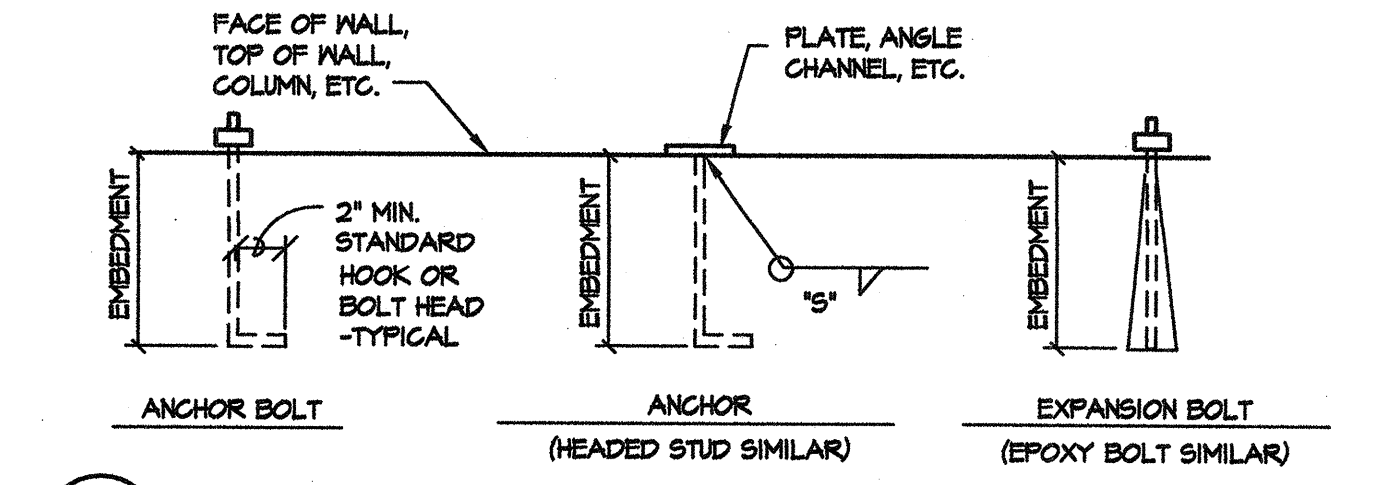


**07** MAXIMUM SLOPE BETWEEN ADJACENT FOOTING  
 NO SCALE

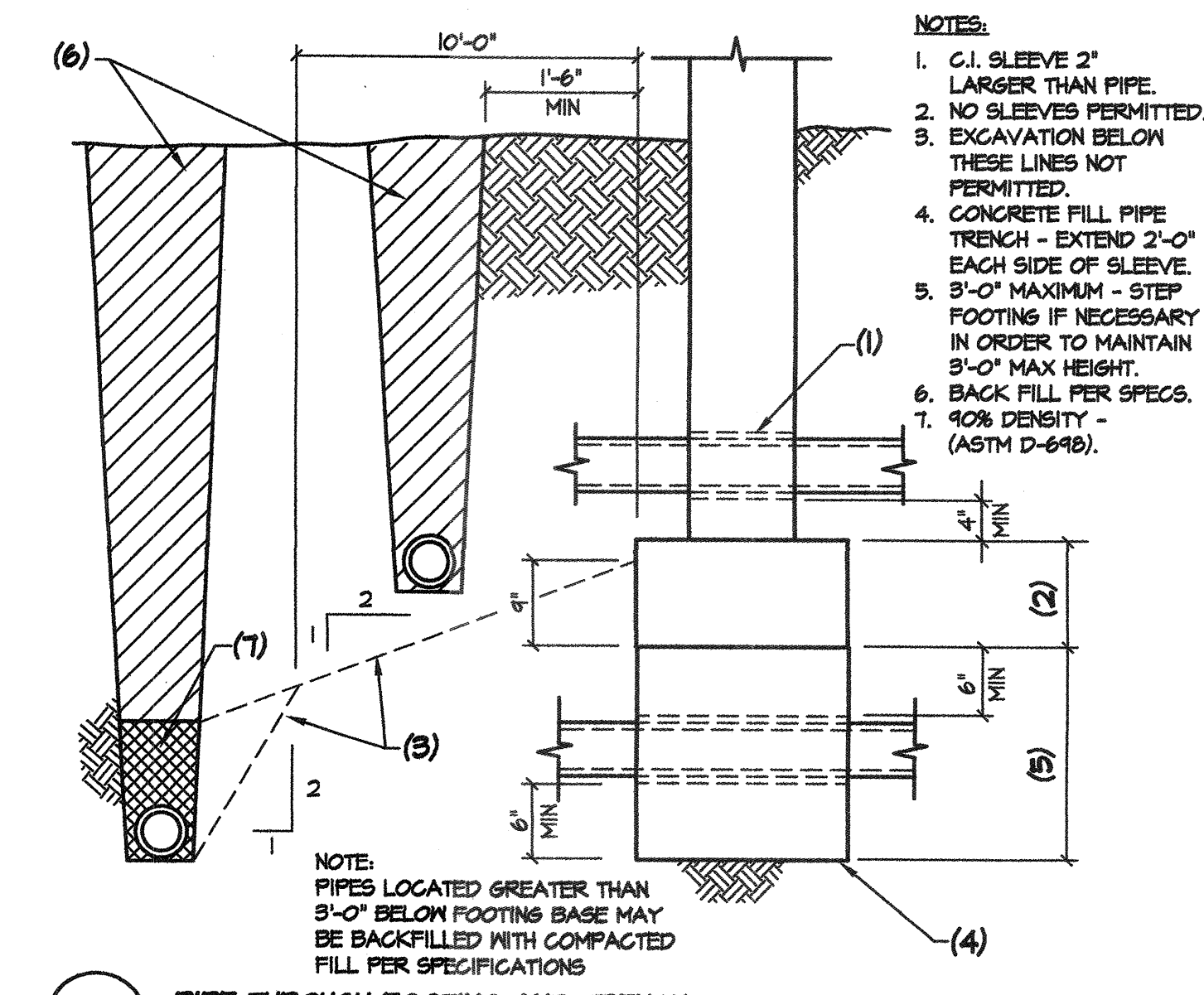


**04** TYPICAL KEY IN CONCRETE  
 NO SCALE

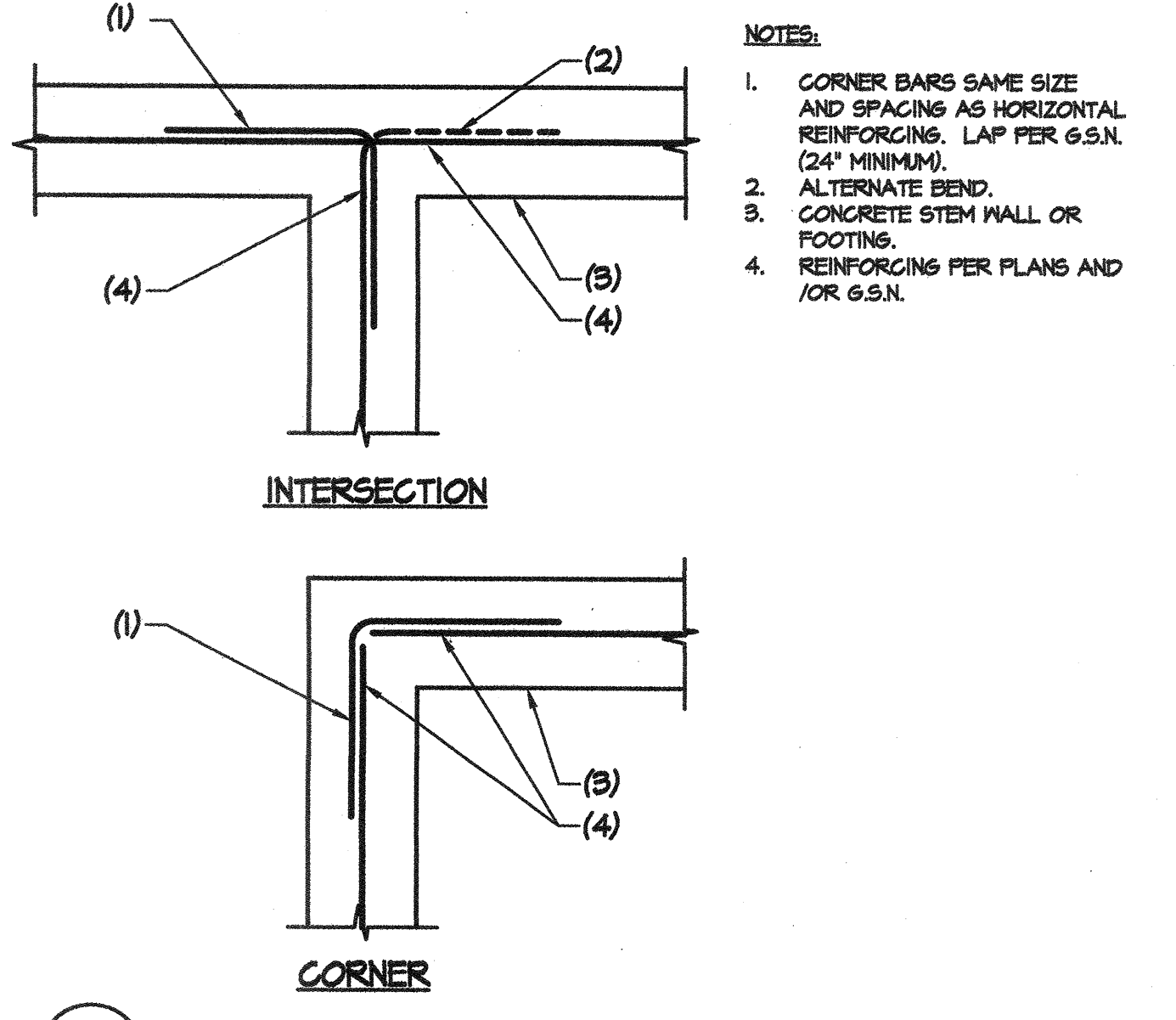
BOLT DIAMETER	VERT BOLT EMBEDMENT LENGTH	HORIZ BOLT EMBEDMENT LENGTH	HEADED STUD FILLET WELD SIZE, "S".
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	-----
1 1/4"	11"	9"	-----



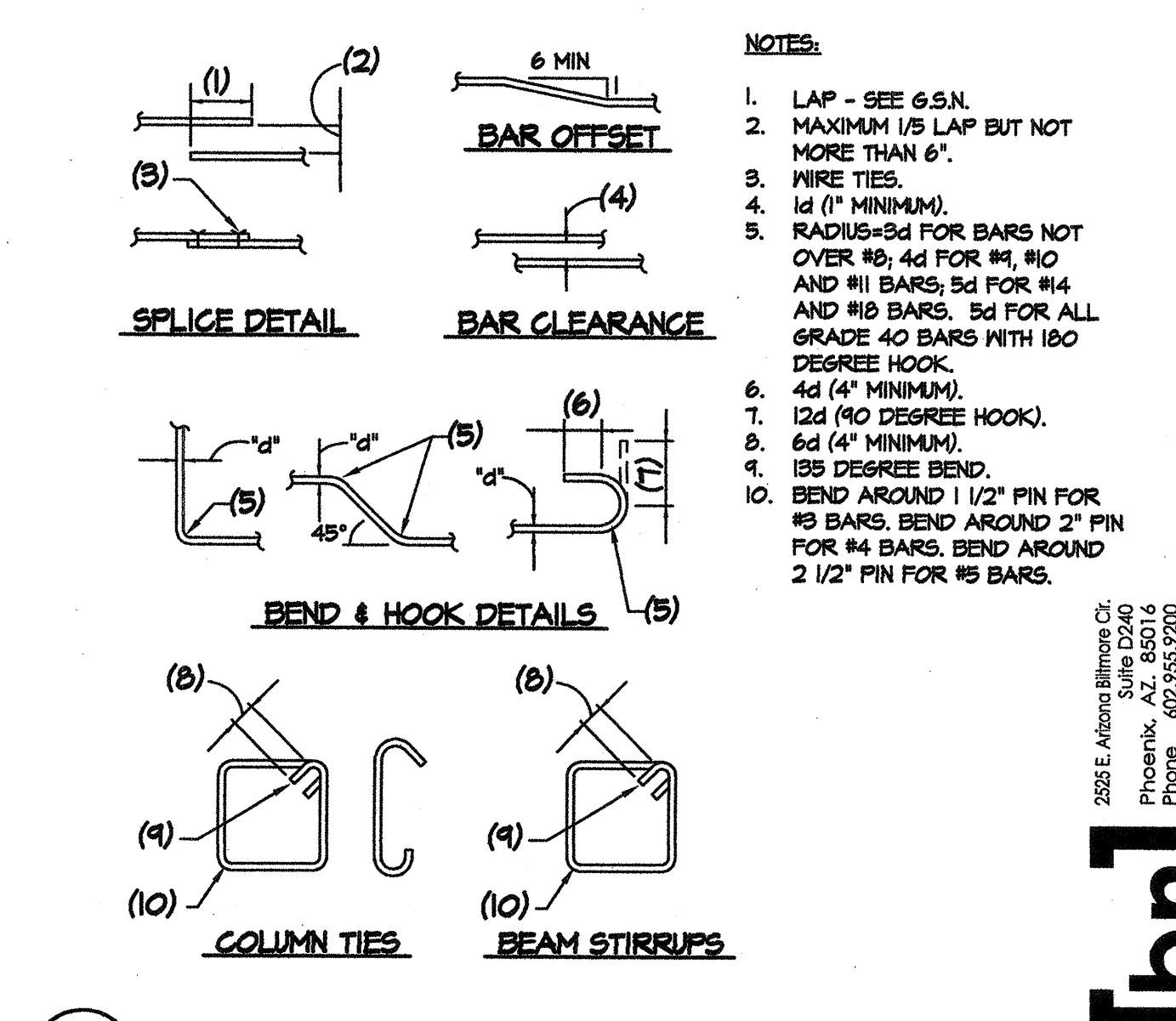
**01** TYPICAL ANCHOR, ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE  
 NO SCALE



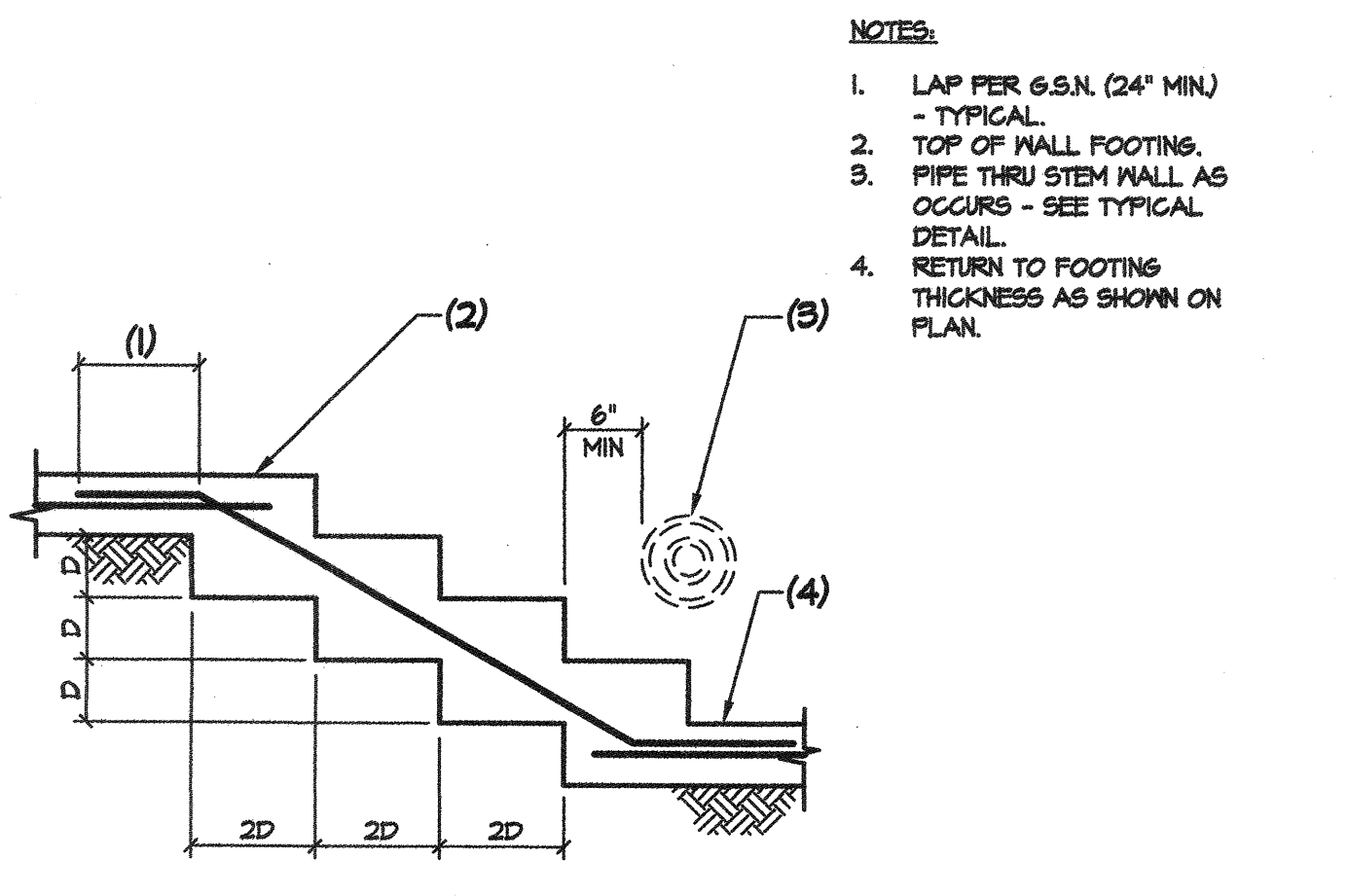
**08** PIPE THROUGH FOOTING AND TRENCH  
 NO SCALE



**05** PLAN - CORNER REINFORCING IN CONCRETE FOOTING AND/OR STEM WALL  
 NO SCALE



**02** TYPICAL CONCRETE REINFORCING BAR DETAILS  
 NO SCALE



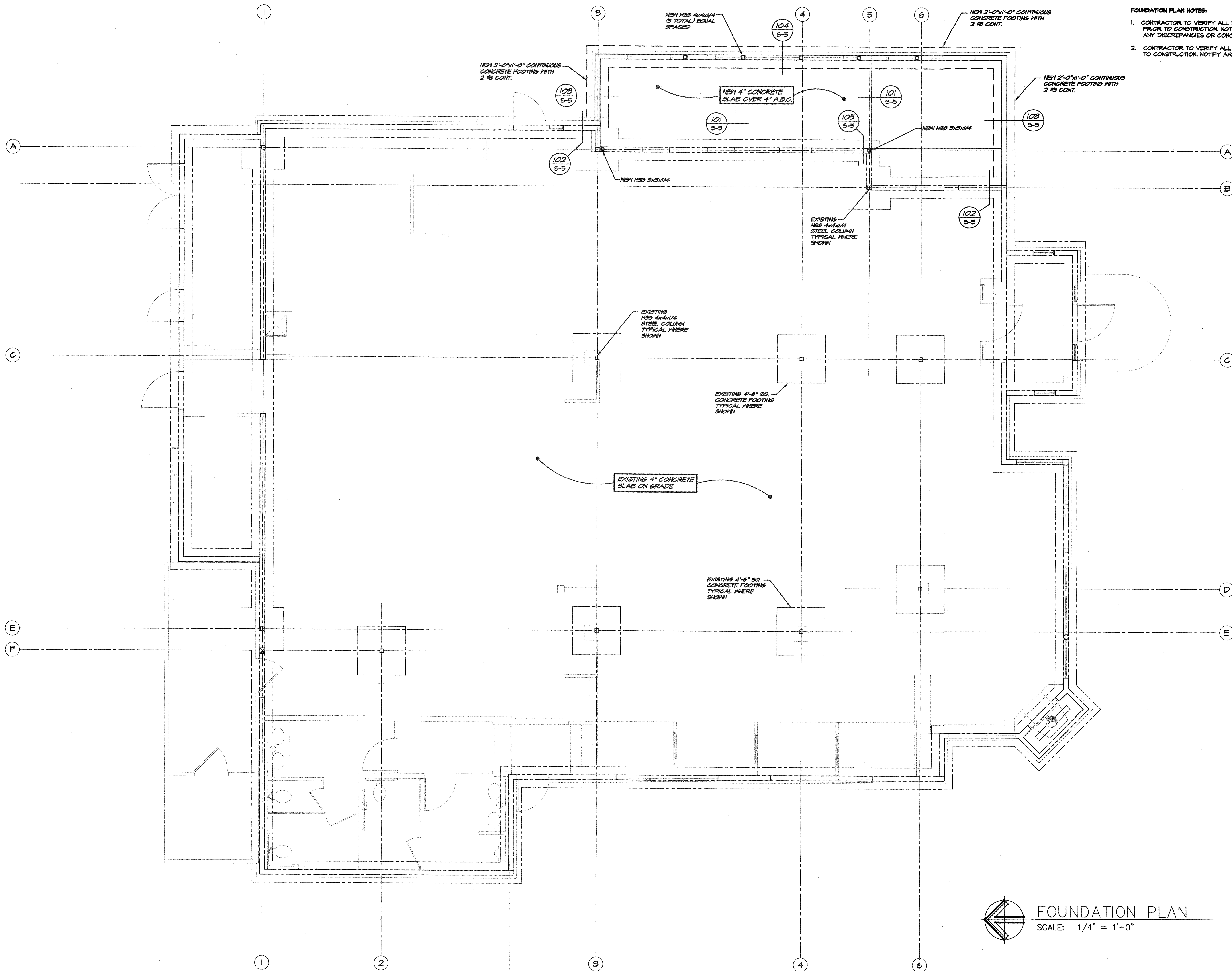
**06** TYPICAL STEP IN CONCRETE FOOTING  
 NO SCALE

CONC. PSI	CLASS B TENSION SPLICE LENGTHS						COMP. BARS	
	f'c = 2500 PSI/ f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI		f'c = ALL	
BAR LOCATION	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	STD. LAP	ENCLOSED W/ SPIRAL TIES
#3	16"	16"	21"	21"	16"	16"	12"	12"
#4	22"	22"	28"	28"	17"	17"	15"	12"
#5	27"	27"	35"	35"	21"	21"	19"	14"
#6	35"	32"	46"	42"	25"	25"	23"	17"
#7	48"	38"	63"	44"	37"	29"	26"	20"
#8	63"	43"	82"	55"	44"	33"	30"	23"
#9	80"	48"	104"	64"	55"	38"	34"	25"
#10	102"	58"	132"	88"	71"	45"	38"	24"
#11	125"	71"	162"	108"	80"	55"	42"	32"

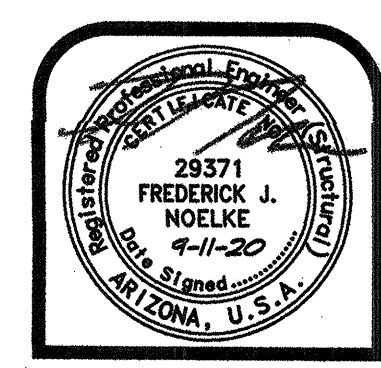
**03** LAP SCHEDULE FOR REINFORCING STEEL  
 NO SCALE

**[bn]**  
 BARNHART PROPERTIES  
 CONSULTING  
 structural engineers

2825 E. Arizona Biltmore Ct.  
 Phoenix, AZ 85016  
 Phone 602.955.9200  
 Fax 602.955.9201  
 Email cadd@barnhart.com  
 cadd@barnhart.com



- FOUNDATION PLAN NOTES:**
1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR CONCERNS.
  2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.



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**S-3**

**[bn]**  
 bakum noelle  
 CONSULTING  
 structural engineers

2525 E. Arizona Biltmore Ct.  
 Suite D240  
 Phoenix, AZ 85016  
 Phone 602.955.9200  
 Fax 602.955.9201  
 Email info@bakumnoelle.com  
 website bakumnoelle.com

**FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"