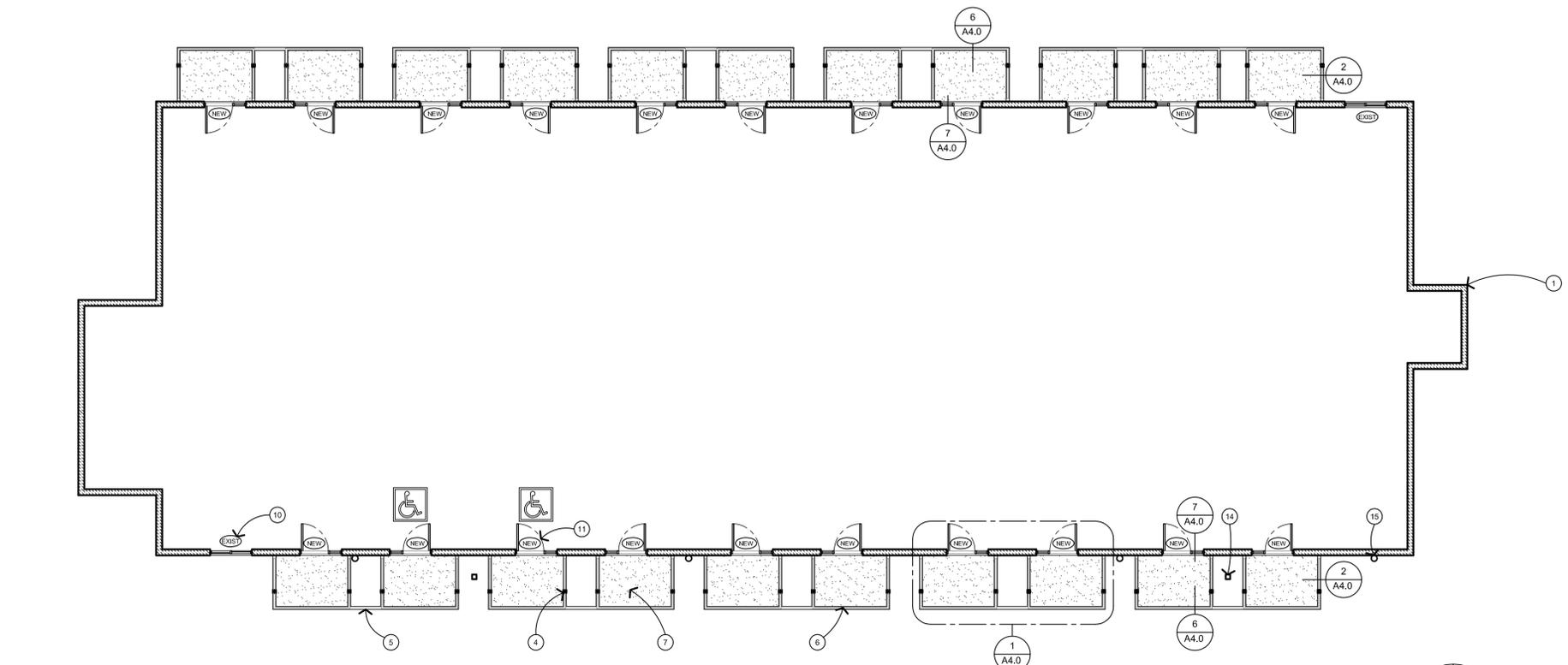


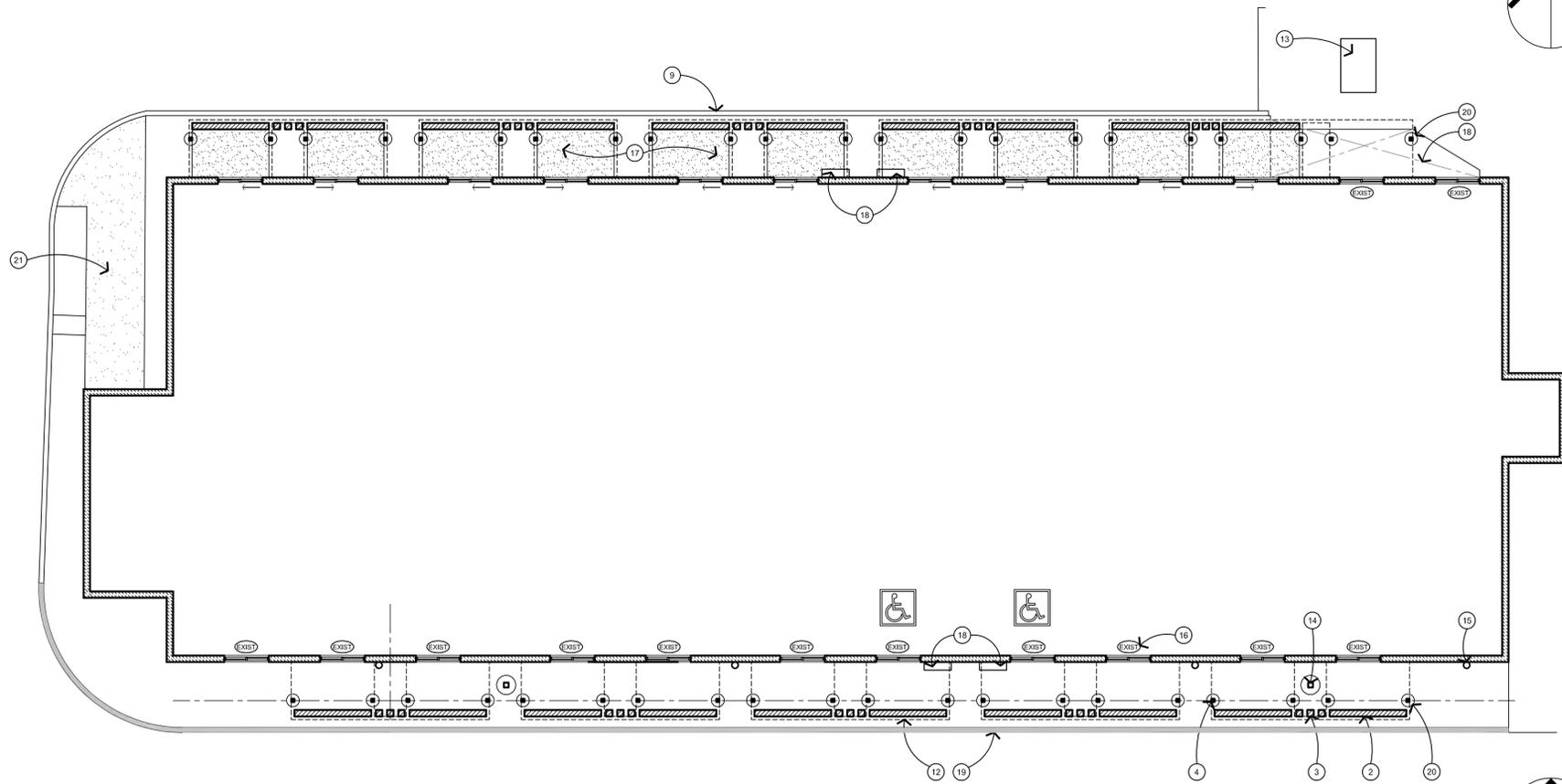




- KEYNOTES**
- EXIST CMU WALL W/ STUCCO FINISH
  - 8x4x16 CMU WALL SANDBLASTED FINISH
  - 8x8 CMU PIER SANDBLASTED FINISH
  - 4 x 4 STEEL TUBE COLUMN
  - 4 x 8 STEEL BEAM FRAME
  - 2 x 2 STEEL TUBE GUARDRAIL
  - CONCRETE SLAB ON METAL DECK
  - 4" CONCRETE SLAB ON GRADE
  - EXIST 6" CONCRETE CURB
  - EXIST SLIDING WINDOW
  - NEW 36" STOREFRONT DOOR AND SIDELIGHT
  - LINE OF BALCONY ABOVE
  - EXIST ELECTRICAL TRANSFORMER
  - EXIST POLE LIGHT
  - EXIST ROOF DRAIN
  - INDICATES EXISTING WINDOW
  - 4" CONCRETE SLAB ON GRADE
  - SAWCUT AND REMOVE EXIST CONC THIS AREA
  - NEW 6" CONCRETE CURB
  - 16"Ø CONC AROUND STL COLUMN SEE DTL 3/A4.1
  - EXISTING CONC SLAB



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



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

**SUPER 8 HOTEL  
SEDONA, ARIZONA**

**1ST & 2ND FLOOR PLANS**  
SCALE: 1/8" = 1'-0"



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ARCHITECT - 16420 N. 92ND STREET  
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PHONE - 602-791-4315

DATE 8-15-15

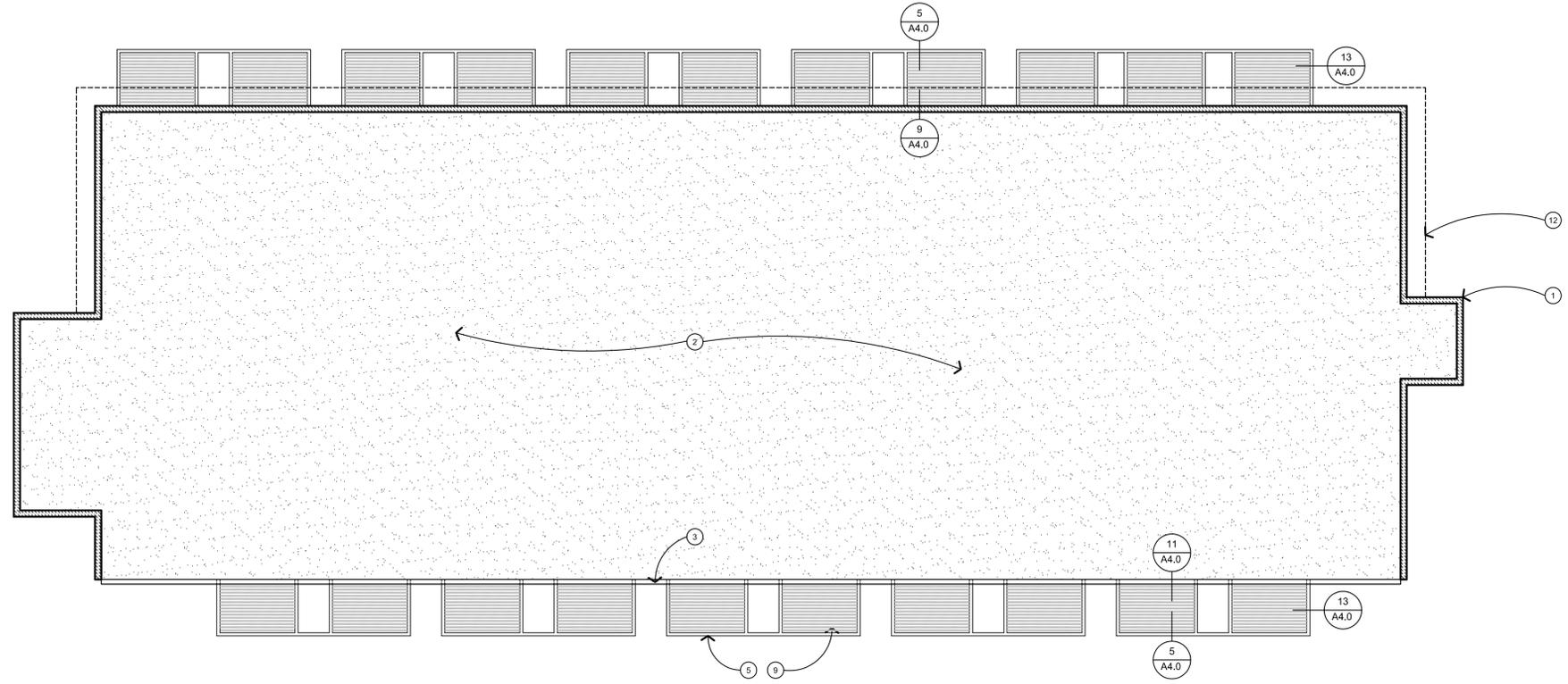
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A2.0 7

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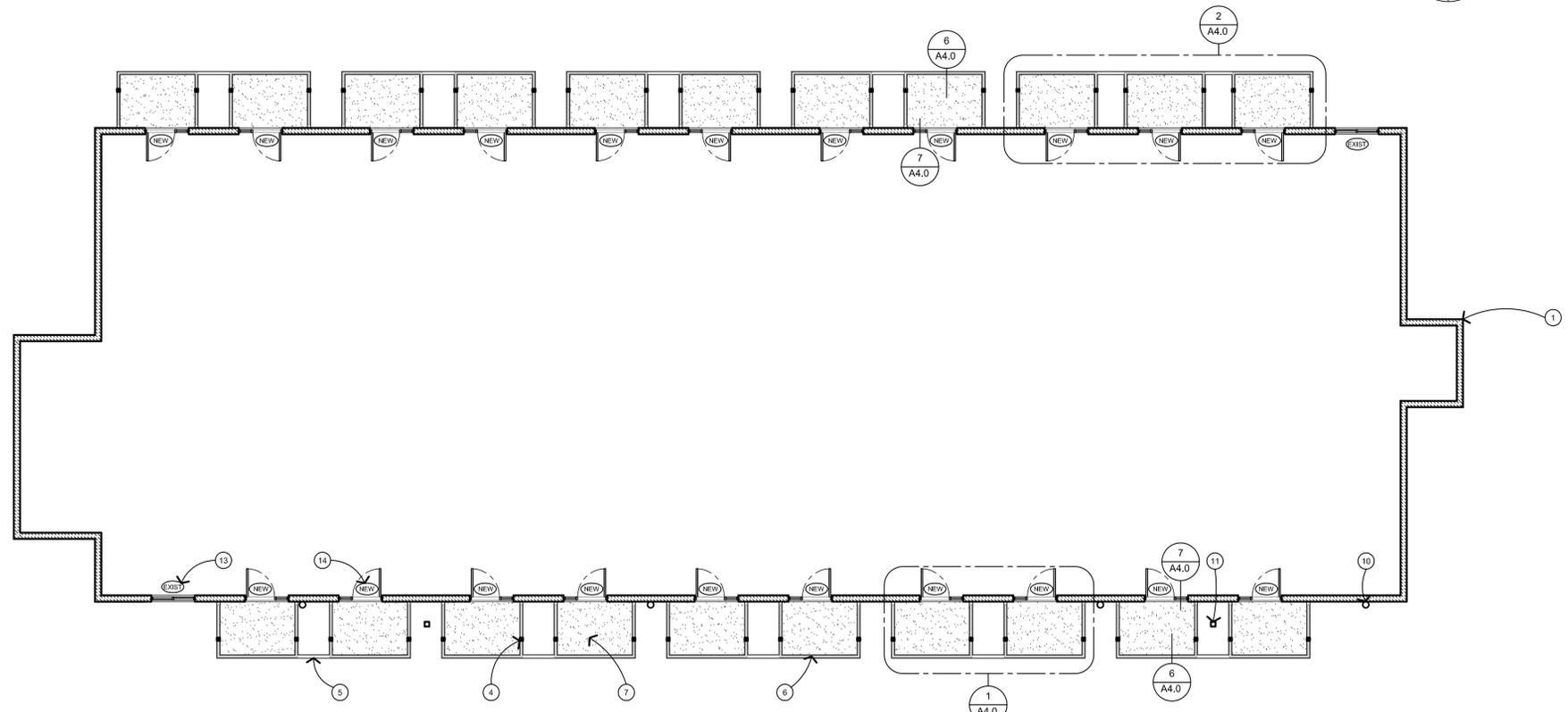


**SUPER 8 HOTEL  
SEDONA, ARIZONA**

- KEYNOTES**
- EXIST CMU WALL W/ STUCCO FINISH
  - EXISTING ROOF
  - EXIST GUTTER & DOWN SPOUTS
  - 4 x 4 x 1/4 STEEL TUBE COLUMN
  - W8 x 15 STEEL BEAM FRAME
  - 2 x 2 STEEL TUBE GUARDRAIL
  - CONCRETE SLAB ON METAL DECK
  - NEW SLIDING GLASS DOOR
  - METAL LATTICE DRYWALL FURRING CHANNELS @ 4" o.c.
  - EXISTING ROOF DRAIN
  - EXISTING LIGHT POLE
  - REMOVE EXISTING MANSART OVERHANG & PATCH & FINISH WALL TO MATCH EXISTING WALL
  - EXIST SLIDING WINDOW
  - NEW 36" STOREFRONT DOOR AND SIDELIGHT



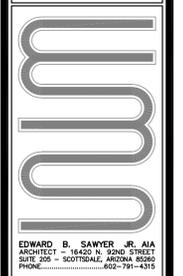
**ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**3RD FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

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**3RD FLOOR PLAN &  
ROOF PLAN**  
SCALE: 1/8" = 1'-0"

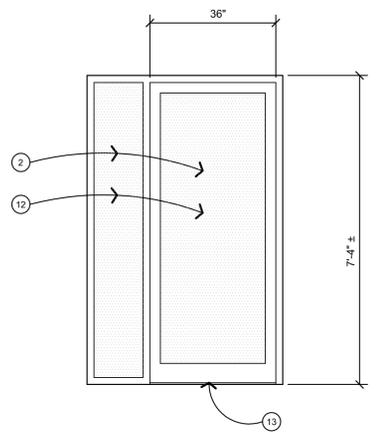


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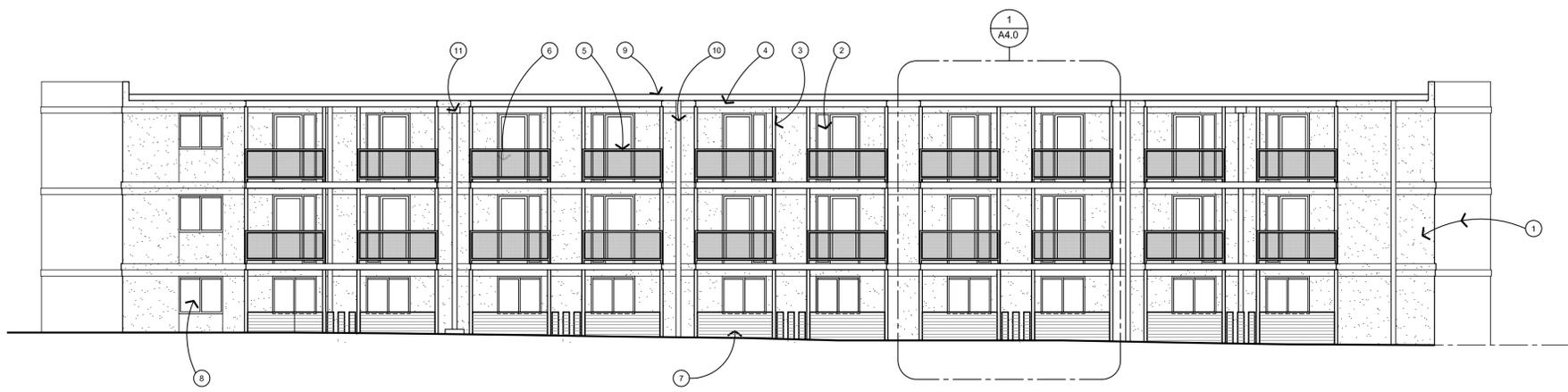
DATE	8-15-15
SHEET	OF
A2.1	7



- KEYNOTES**
1. EXIST CMU WALL W/ STUCCO FINISH
  2. NEW 36" STOREFRONT DOOR AND SIDELIGHT
  3. 4 x 4 x 1/4 STEEL TUBE COLUMN
  4. W8 x15 STEEL BEAM
  5. 2 x 2 STEEL TUBE GUARDRAIL
  6. TEMPERED SOLAR GREY GLASS
  7. 8x4x16 CMU WALL W/ SANDBLASTED FINISH SEE DTL 10/A4.1
  8. EXISTING WINDOW
  9. EXISTING GUTTER
  10. EXISTING ROOF DRAIN
  11. EXISTING LIGHT POLE
  12. TEMPERED GLASS
  13. ALUMINUM THRESHOLD



**TYP STOREFRONT DOOR**  
SCALE: N.T.S.



**SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"

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**SUPER 8 HOTEL  
SEDONA, ARIZONA**

**EXTERIOR ELEVATIONS**  
SCALE: 1/8" = 1'-0"

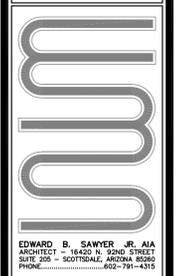
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**SUPER 8 HOTEL  
SEDONA, ARIZONA**

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**BALCONY DETAILS**  
SCALE: 3/8" = 1'-0"

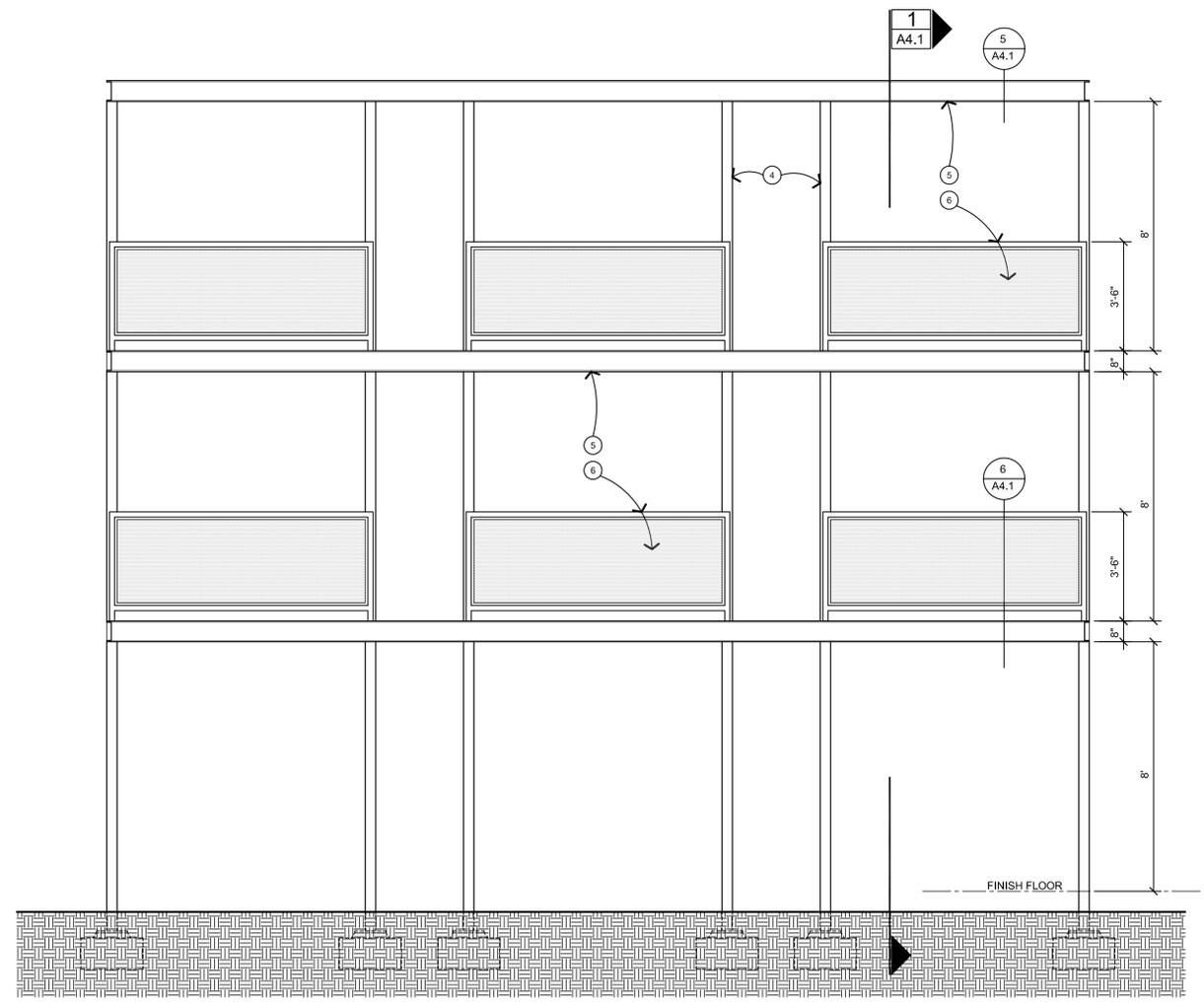


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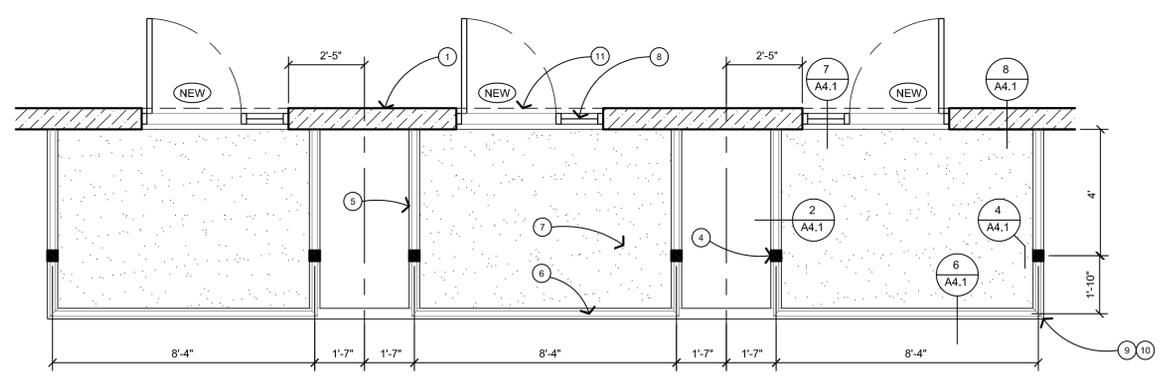
DATE 8-15-15

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- KEYNOTES**
- EXIST CMU WALL W/ STUCCO FINISH
  - 8x4x16 CMU WALL W/ SANDBLASTED FINISH SEE DTL. 10/A4.1
  - FINISH GRADE VARIES
  - 4 x 4 x 1/4 STEEL TUBE COLUMN
  - W8 x 15 STEEL BEAM FRAME
  - 2 x 2 STEEL TUBE GUARDRAIL THREE SIDES W/ TEMPERED SOLAR GREY GLASS PANELS
  - CONCRETE SLAB ON METAL DECK
  - NEW 36" STOREFRONT DOOR AND SIDELIGHT
  - MITER STEEL BEAMS, WELD CONT & GRIND SMOOTH
  - MITER STEEL GUARDRAIL, WELD CONT & GRIND SMOOTH
  - REMOVE WALL BELOW EXISTING WINDOW TYP. PATCH & FINISH TO MATCH EXISTING READY TO RECEIVE NEW SLIDING GLASS DOOR
- GENERAL NOTES**
- A. FIELD VERIFY ALL DIMENSIONS

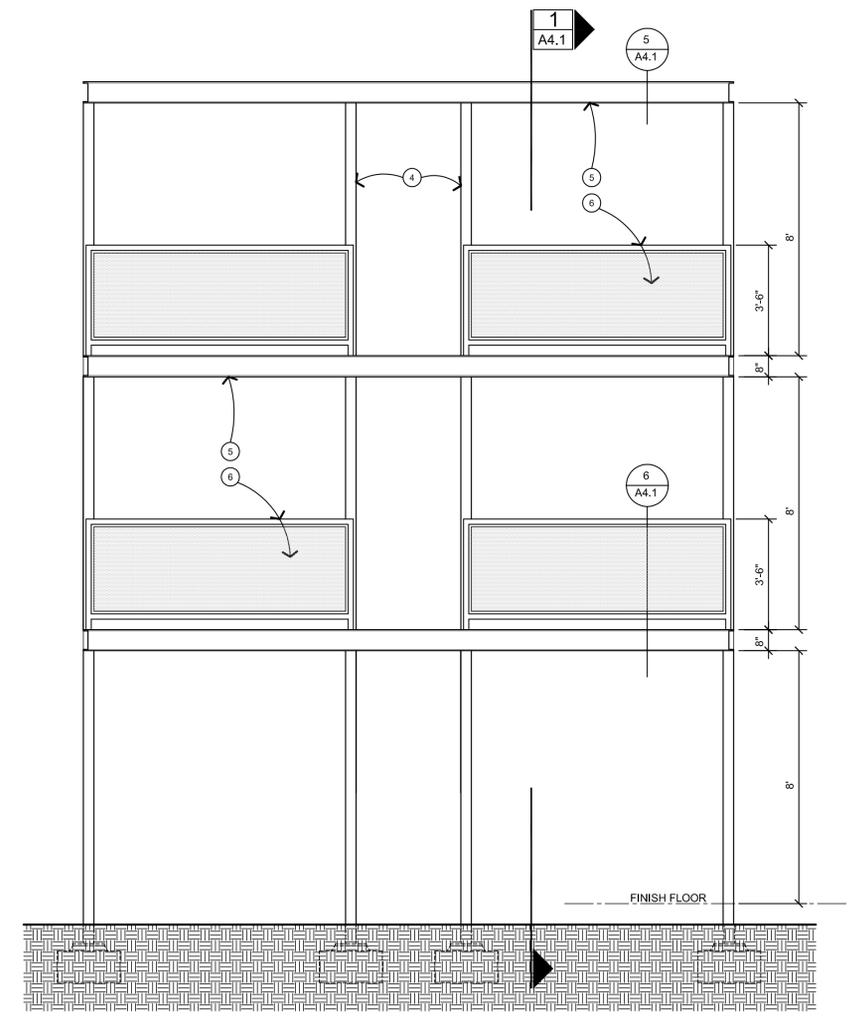


**ELEVATION**

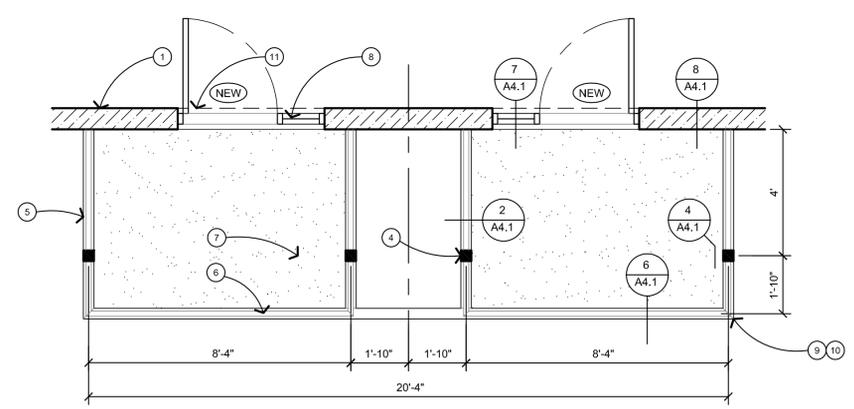


**PLAN**

2 TYPICAL BALCONY - B SCALE: 3/8" = 1'-0"



**ELEVATION**



**PLAN**

1 TYPICAL BALCONY - A SCALE: 3/8" = 1'-0"

**SUPER 8 HOTEL  
SEDONA, ARIZONA**

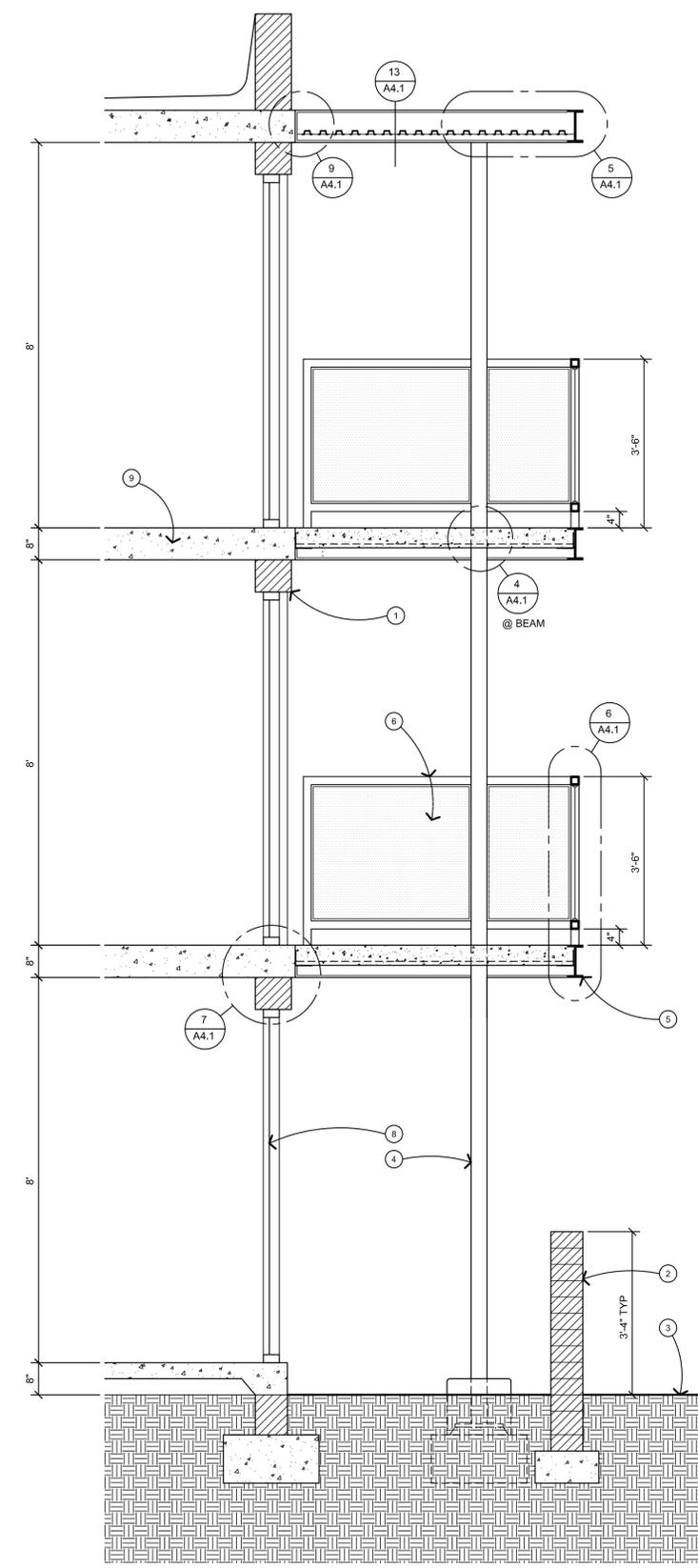
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**DETAILS**  
SCALE: AS SHOWN

**JWM**  
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PHONE - 602-791-4315

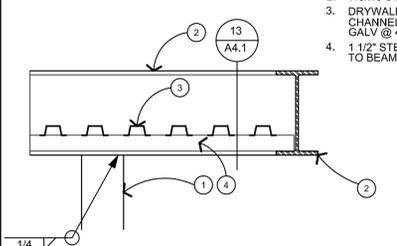
**KEYNOTES**

- EXIST CMU WALL W/ STUCCO FINISH
- 8x4x16 CMU WALL W/ SANDBLASTED FINISH SEE DTL 10/A4.1
- FINISH GRADE VARIES
- 4 x 4 x 1/4 STEEL TUBE COLUMN
- W8x15 STEEL BEAM FRAME
- 2 x 2 STEEL TUBE GUARDRAIL THREE SIDES W/ TEMPERED SOLAR GREY GLASS PANELS
- CONCRETE SLAB ON METAL DECK
- NEW 36" STOREFRONT DOOR AND SIDELIGHT
- EXIST CONC SLAB



**KEYNOTES**

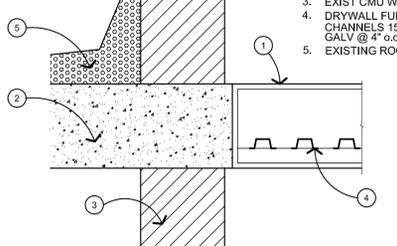
- HSS 4x4x1/4 STEEL COL
- W8x15 STEEL BEAM
- DRYWALL FURRING CHANNELS 150F 125-43 GALV @ 4" o.c.
- 1 1/2" STEEL TUBE WELD TO BEAM BEYOND



13 METAL LATTICE SCALE: N.T.S.

**KEYNOTES**

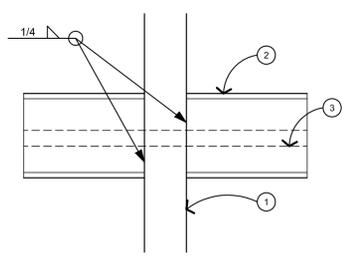
- W8x15 STL BEAM BEYOND
- EXIST CONCRETE SLAB
- EXIST CMU WALL
- DRYWALL FURRING CHANNELS 150F 125-43 GALV @ 4" o.c.
- EXISTING ROOFING



9 METAL LATTICE SCALE: N.T.S.

**KEYNOTES**

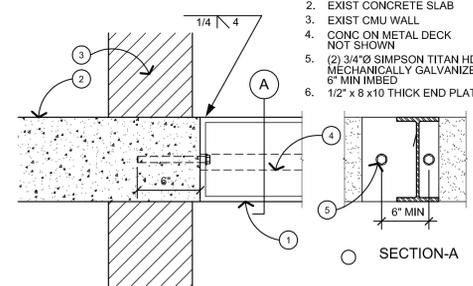
- HSS 4x4x1/4 STEEL COL
- W8x15 STEEL BEAM
- CONC ON METAL DECK NOT SHOWN



5 METAL LATTICE SCALE: N.T.S.

**KEYNOTES**

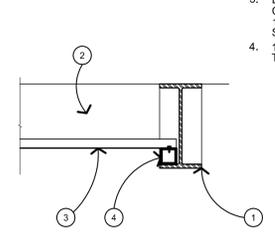
- W8x15 STEEL BEAM
- EXIST CONCRETE SLAB
- EXIST CMU WALL
- CONC ON METAL DECK NOT SHOWN
- (2) 3/4"x3" SIMPSON TITAN HD MECHANICALLY GALVANIZED 6" MIN IMBED
- 1/2" x 8 x 10 THICK END PLATE



12 BEAM TO BEAM SCALE: N.T.S.

**KEYNOTES**

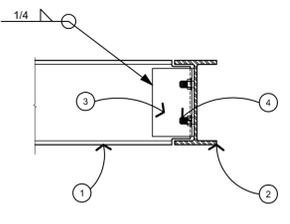
- W8x15 STL BEAM
- EXIST CMU WALL
- DRYWALL FURRING CHANNELS @ 4" o.c. 150F 125-43 GALV S.T.M.S. TO STEEL TUBE
- 1 1/2" STEEL TUBE WELD TO BEAM



13 METAL LATTICE SCALE: N.T.S.

**KEYNOTES**

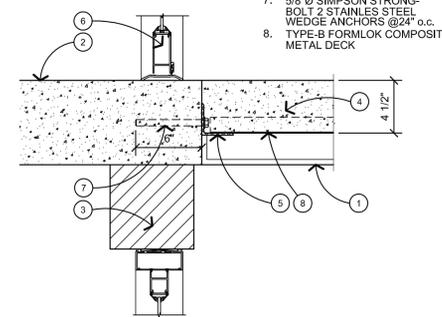
- W8x15 STL BEAM
- W8x15 STL FASCIA BEAM
- 4x4x1/4 STL ANGLE
- 5/8" STUDS WELDED TO FASCIA BEAM



8 BEAM @ CONC SLAB SCALE: N.T.S.

**KEYNOTES**

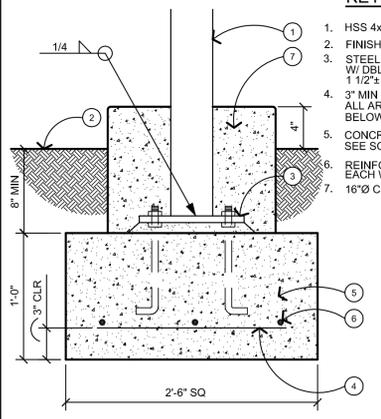
- W8x15 STL BEAM BEYOND
- EXIST CONCRETE SLAB
- EXIST CMU WALL
- CONC SLAB ON METAL DECK
- 4x4x1/4 STL ANGLE LEDGER
- NEW 36" STOREFRONT DOOR AND THRESHOLD
- 5/8" SIMPSON STRONG-BOLT 2 STAINLESS STEEL WEDGE ANCHORS @ 24" o.c.
- TYPE-B FORMLOK COMPOSITE METAL DECK



4 COLUMN @ BEAM SCALE: N.T.S.

**KEYNOTES**

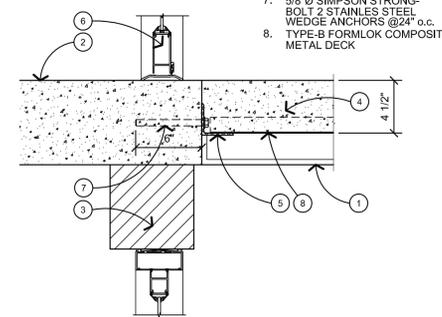
- HSS 4x4x3/16 STEEL COL
- FINISH GRADE
- STEEL BASE PLATE W/ DBL NUTS OVER 1 1/2" DRYPACK
- 3" MIN CONC COVER ALL AROUND STEEL BELOW GRADE
- CONCRETE FOOTING SEE SCHEDULE
- REINFORCING (3) #5 EACH WAY
- 16" CONCRETE COVER



11 GUTTER DETAIL SCALE: N.T.S.

**KEYNOTES**

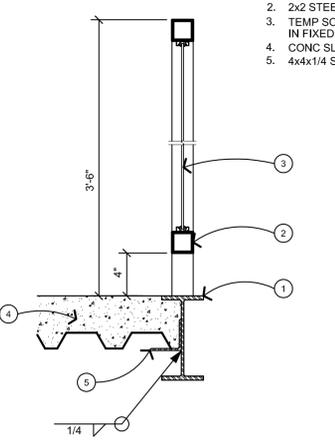
- W8x15 STL BEAM BEYOND
- EXIST CONCRETE SLAB
- EXIST CMU WALL
- CONC SLAB ON METAL DECK
- 4x4x1/4 STL ANGLE LEDGER
- NEW 36" STOREFRONT DOOR AND THRESHOLD
- 5/8" SIMPSON STRONG-BOLT 2 STAINLESS STEEL WEDGE ANCHORS @ 24" o.c.
- TYPE-B FORMLOK COMPOSITE METAL DECK



7 TYP BALCONY DECK SCALE: N.T.S.

**KEYNOTES**

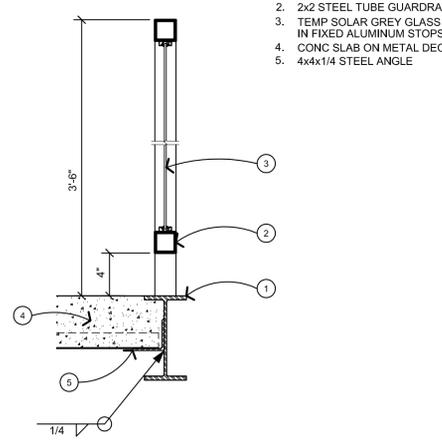
- W8x15 STEEL BEAM
- 2x2 STEEL TUBE GUARDRAIL
- TEMP SOLAR GREY GLASS IN FIXED ALUMINUM STOPS
- CONC SLAB ON METAL DECK
- 4x4x1/4 STEEL ANGLE



3 COLUMN FOOTING SCALE: N.T.S.

**KEYNOTES**

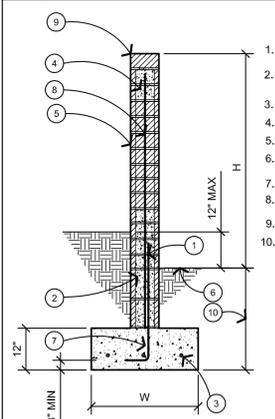
- W8x15 STEEL BEAM
- 2x2 STEEL TUBE GUARDRAIL
- TEMP SOLAR GREY GLASS IN FIXED ALUMINUM STOPS
- CONC SLAB ON METAL DECK
- 4x4x1/4 STEEL ANGLE



10 FREE STANDING WALL SCALE: N.T.S.

**KEYNOTES:**

- DOWELS TO MATCH & LAP VERT REINF PER GSN
- SOLID GROUT STEM TO HIGHEST ADJ FINISH GRADE
- FOOTING REINF SEE SCHEDULE
- 2 - #5 CONT IN 8" BB
- 8" CMU WALL SEE PLANS FOR TYPE
- LOWEST ADJ FINISH GRADE WITHIN 5'-0" OF FTG.
- CTR WALL ON FTG.
- "R" REINF CTRD IN WALL SEE SCHEDULE
- SOLID CAP BLOCK
- SEE SPECS - 18" MIN



6 CONC DECK @ BEAM SCALE: N.T.S.

RETAINING / REINFORCING SCHEDULE			
H	W	WALL REINF	FOOTING REINF
≤ 4'-0"	2'-0"	#5 @ 40" O.C.	2 # 5 CONT
4'-1" TO 8'-0" MAX	3'-9"	#5 @ 16" O.C.	4 #5 CONT

**KEYNOTES**

- W8x15 STEEL BEAM
- 2x2 STEEL TUBE GUARDRAIL
- TEMP SOLAR GREY GLASS IN FIXED ALUMINUM STOPS
- CONC SLAB ON METAL DECK
- 4x4x1/4 STEEL ANGLE

2 CONC DECK @ BEAM SCALE: N.T.S.

**KEYNOTES**

- W8x15 STEEL BEAM
- 2x2 STEEL TUBE GUARDRAIL
- TEMP SOLAR GREY GLASS IN FIXED ALUMINUM STOPS
- CONC SLAB ON METAL DECK
- 4x4x1/4 STEEL ANGLE

1 SECTION-A SCALE: N.T.S.



**SUPER 8 HOTEL  
SEDONA, ARIZONA**

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**SPECIFICATIONS**



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SUITE 200 - SCOTTSDALE, ARIZONA 85258  
PHONE - 480-538-5132

DATE 8-15-15

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**BUILDING CODE:**

2006 EDITION OF THE INTERNATIONAL BUILDING CODE.

**FOUNDATIONS:**

SPREAD FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL 18" MINIMUM BELOW ADJACENT FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1500 PSF.

**CONCRETE:**

SPECIFIED 28 DAY COMPRESSIVE STRENGTH F<sub>c</sub>:

FOUNDATIONS (DESIGN BASED ON 2,500 PSI) .....3,000 PSI  
INTERIOR SLAB ON GRADE (NOT MOISTURE SENSITIVE) .....3,000 PSI  
SLAB ON GRADE .....3,500 PSI

**GENERAL:**

ALL CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHERWISE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. NO OTHER ADMIXTURES PERMITTED WITHOUT APPROVAL. FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT (U.N.O. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT (IE: COLUMNS, BEAMS, ELEVATED SLABS, ETC.) OR STRUCTURAL CONCRETE TOPPING WITHOUT THE EXPRESSED APPROVAL OF THE STRUCTURAL ENGINEER.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL BE INCLUDED IN THE CALCULATION OF W/C RATIOS SPECIFIED ABOVE. FLY ASH ADDITIVES SHALL NOT BE USED ON SLABS WITH A BURNISHED OR ACID FINISH.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R5.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

**SLABS ON GRADE:**

MAXIMUM SLUMP WITHOUT PLASTICIZER AT POINT OF PLACEMENT SHALL BE 5 INCHES. MIX DESIGNS SHALL TAKE CARE TO PROVIDE THE LARGEST POSSIBLE SIZE OF COURSE AGGREGATE WHILE MAINTAINING CONCRETE WORKABILITY. NOMINAL MAXIMUM AGGREGATE SIZE SHALL NOT BE LESS THAN 3/4 INCH NOR MORE THAN 1/3 THE DEPTH OF THE SLAB. MIX DESIGNERS SHALL SUBMIT SLAB ON GRADE DESIGNS WITH SHRINKAGE CHARACTERISTICS NOT EXCEEDING 0.00078 IN/IN TO MEET THE REQUIREMENTS OF ACI 308R-06, FIGS.6 FOR TYPICAL CONCRETE. SLABS SHALL BE PLACED ON A FLAT, SMOOTH, FIRM, COMPACTED SUBGRADE.

CONCRETE SHALL BE MIXED, PLACED, FINISHED AND CURED PER LATEST EDITION OF ACI 302.1 FOR THE APPROPRIATE FLOOR CLASS TYPE PER TABLE 1.1 AND SECTION 7. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR FINISH.

SLABS ON GRADE SHALL BE VIBRATED ONLY AT TRENCHES, FLOOR DUCTS, TURNDOWNS, ETC. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (CONSTRUCTION OR SAW CUT) PER TYPICAL DETAILS, AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET. CONSTRUCTION CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT. SLAB REINFORCING, WHERE SHOWN, SHALL NOT EXTEND MORE THAN 125 FEET WITHOUT STOPPING THE REINFORCEMENT AT A CONTROL JOINT.

VAPOR BARRIER IF REQUIRED BY ARCHITECTURAL SPECIFICATION OR SOILS REPORT SHALL CONSIST OF A MINIMUM 10 MIL MATERIAL LAPPED A MINIMUM OF 6 INCHES AND TAPED PER MANUFACTURER RECOMMENDATIONS. THE BARRIER SHALL BE PLACED ON TOP OF A SMOOTH AND COMPACTED SUBGRADE SURFACE. THE FLOOR SLAB SHALL BE PLACED OVER A FOUR INCH LAYER OF COMPACTED AGGREGATE BASE COURSE ON TOP OF THE VAPOR BARRIER. ANY DAMAGE TO VAPOR BARRIER SHALL BE REPAIRED PRIOR TO AGGREGATE COURSE PLACEMENT. CARE SHALL BE TAKEN TO KEEP MOISTURE AWAY FROM THE COMPACTED SUBBASE. SUBGRADE MUST BE ALLOWED TO DRY AFTER RAINS PRIOR TO SLAB PLACEMENT. FLOOD CURING IS NOT ALLOWED. SAND IS NOT AN ALTERNATIVE FOR THE SUBBASE COURSE.

**MASONRY:**

**GENERAL:**

HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT, GRADE N, f'<sub>m</sub> = 1,500 PSI, RUNNING BOND, MORTAR TYPE S, 1,900 PSI. GROUT 2,000 PSI. MECHANICALLY VIBRATE GROUT IMMEDIATELY AFTER POURING AND AGAIN 5 TO 10 MINUTES LATER. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 6'-0" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 6'-0", WHEN APPROVED BY THE STRUCTURAL ENGINEER AND BUILDING OFFICIAL. GROUT LIFTS MAY BE GREATER THAN 6'-0" IF IT CAN BE DEMONSTRATED BY CONTRACTOR THAT THE GROUT SPACES CAN BE PROPERLY FILLED. FILL CELLS SOLIDLY WITH GROUT IN LIFTS AND STOP POURS 1 1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT POUR POINTS. UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUNS OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID.

**VERTICAL REINFORCING:**

1 #5 IN CENTER OF GROUT AT CENTER OF WALL. CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O.C. UNLESS NOTED OTHERWISE. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY A.A. WIRE PRODUCTS COMPANY. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.

**HORIZONTAL REINFORCING:**

2 #5 IN MINIMUM 16" DEEP GROUTED CONTINUOUS BOND BEAM AT ELEVATED FRAMING ASSEMBLIES. 1 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPETS AND FREESTANDING WALLS. PLACE THESE BARS CONTINUOUS THRU CONTROL JOINTS PER TYPICAL DETAIL. TO MAINTAIN BOND BEAM CONTINUITY, INSTALL BENT BARS PER TYPICAL DETAILS TO MATCH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND INTERSECTIONS. STANDARD WEIGHT (NO. 9 GAUGE) WIRE (HOHMANN AND BARNARD INC. OR EQUIVALENT) LADDER TYPE JOINT REINFORCEMENT AT 16" O.C. ALL JOINT REINFORCING SHALL BE EITHER HOT-DIPPED GALVANIZED OR STAINLESS STEEL. FOR INTERIOR WALLS ONLY - JOINT REINFORCING MAY BE MILL GALVANIZED AT CONTRACTORS OPTION.

**LAP SPLICES:**

LAP SPLICES FOR VERTICAL AND HORIZONTAL REINFORCING SHALL BE PER TYPICAL DETAIL. DO NOT SPLICE WITHIN 8'-0" OF CONTROL JOINTS. LAP HORIZONTAL LADDER TYPE JOINT REINFORCING 12" MINIMUM.

FOR ADDITIONAL REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

**REINFORCING:**

ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (F<sub>y</sub> = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 (F<sub>y</sub> = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. WHERE SHOWN ON DRAWINGS ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE FABRIC PER ASTM A185. WIRE PER ASTM A62. 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  
#6 OR LARGER ..... 2"  
#5 AND SMALLER ..... 1 1/2"

FLAT SLAB ..... 3/4"  
WALLS ..... SEE SCHEDULE AND/OR DETAILS  
PRECAST CONCRETE WALL PANELS ..... SEE PANEL ELEVATION DETAILS  
ALL OTHER PER LATEST EDITION OF ACI 318

ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR.

ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

**LAP SPLICES IN CONCRETE:**

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. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING 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.

LAPS IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

**DRYPACK:**

DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENTS. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO SUPPORTED FRAMING BEING INSTALLED.

**STRUCTURAL STEEL:**

**GENERAL:**

ALL CONSTRUCTION PER LATEST AISC HANDBOOK. ALL WIDE FLANGE STEEL SHALL BE ASTM A992 (F<sub>y</sub> = 50 KSI). ALL PIPE STEEL SHALL BE ASTM A500 (F<sub>y</sub> = 42 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 MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (F<sub>y</sub> = 36 KSI). THE TERMS PIPE AND ROUND HOLLOW STRUCTURAL SHAPE (HSS) ARE USED SYNONYMOUSLY THROUGHOUT THESE DOCUMENTS ALONG WITH THE TERMS TUBE STEEL AND RECTANGULAR OR SQUARE HSS.

ALL STRUCTURAL ROLLED STEEL MEMBERS WITH F<sub>y</sub> GREATER THAN 36 KSI ARE TO BE IDENTIFIED WITH AN ASTM SPECIFICATION MARK OR TAG PER IBC SEC. 2203.1.

UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES USING SNUG TIGHT INSTALLATION, UNLESS NOTED OTHERWISE.

**EXPANSION AND EPOXY ANCHORS:**

ALL EXPANSIVE ANCHORAGE FOR CONCRETE INSTALLATION ONLY SHALL BE PER SIMPSON "STRONG-BOLT" WEDGE ANCHOR (ICC ESR-1771) OR APPROVED EQUIVALENT. ALL EXPANSIVE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER SIMPSON "WEDGE-ALL" ANCHOR (ICC ESR-1398) OR APPROVED EQUIVALENT. ALL ADHESIVE (EPOXY) ANCHORAGE FOR CONCRETE SHALL BE PER SIMPSON "SET-XP" SYSTEM WITH DUAL SIDE BY SIDE CARTRIDGES (ICC ESR-2508) OR APPROVED EQUIVALENT. ALL ADHESIVE (EPOXY) ANCHORAGE FOR MASONRY SHALL BE PER SIMPSON "SET" SYSTEM WITH DUAL SIDE BY SIDE CARTRIDGES (ICC ESR-1772) OR APPROVED EQUIVALENT. ALL ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES USING SNUG TIGHT INSTALLATION UNLESS NOTED OTHERWISE.

**STEEL ERECTION NOTE:**

PER OSHA, STEEL MEMBERS AND DIAGONAL BRACING CANNOT BE RELEASED FROM HOISTING CABLES UNTIL ALL BOLTS OR WELDS AT MEMBER ENDS ARE COMPLETE.

**WELDING:**

UNLESS NOTED OTHERWISE, ALL WELDS PER LATEST EDITION OF THE AWS STANDARDS. 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 E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

HIGH STRENGTH HEADED STUDS SHALL BE AUTOMATIC WELDED CONFORMING TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING", CONFORMANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL QUALITY CONTROL TESTING PROVISIONS OF THE AFOREMENTIONED PUBLICATIONS.

**SHOP DRAWINGS:**

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 HARD COPY SUBMITTAL SETS OF EACH ITEM TO ARCHITECT FOR REVIEW, UNLESS NOTED OTHERWISE. ELECTRONIC SUBMITTALS ARE NOT ACCEPTABLE.

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

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. 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 ARCHITECT 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 SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

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

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