### **NOTES - STEEL JOIST & GIRDERS**

I. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE AND THE GOVERNING EDITION OF IBC SECTION

2. PROVIDE BRIDGING AT ALL JOISTS PER SJI REQUIREMENTS (TYP). PROVIDE ADDITIONAL BOTTOM CHORD BRIDGING FOR STRESS REVERSAL NECESSARY TO RESIST UPLIFT AS SPECIFIED IN DESIGN INFORMATION. 3. ALL BAR JOISTS SHALL HAVE ONE SHOP COAT OF RUST INHIBITOR PRIMER PAINT CONFORMING TO SPECIFICATIONS. FIELD TOUCH UP ALL UNPAINTED AREAS AND WELD AREAS.

4. JOIST GIRDER PANEL LOADS INCLUDE LOADS FROM MECHANICAL ZONES. 5. JOIST GIRDER SELF WEIGHT IS NOT INCLUDED IN PANEL POINT LOADS. JOIST SUPPLIER TO ADD SELF WEIGHT INTO GIRDER DESIGN. 6. MECHANICAL SUPPLIER TO PROVIDE CURB DETAIL/DESIGN TO SPAN

BETWEEN SUPPORTING JOISTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL SUPPLIER TO VERIFY IF CURB NEEDS ADDITIONAL SUPPORTS

7. REFER TO PLAN FOR ANY ADDITIONAL LOADS. POINT LOADS SHOWN IN PLAN SHOULD BE DESIGNED AS AN ADD-LOAD AND BEND-CHECK LOAD. 8. ADD-I OADS ARE A SINGLE CONCENTRATED LOAD WHICH CAN OCCUR AT ANY PANEL POINT ALONG THE JOIST IN THE DESIGNATED AREA. THIS LOAD IS IN ADDITION TO ALL GRAVITY LOADS INDICATED ON PLANS. 9. BEND-CHECK LOADS ARE A SINGLE CONCENTRATED LOAD USED IN THE

DESIGN OF THE JOIST TOP CHORD FOR THE ADDITIONAL BENDING STRESSES RESULTING FROM APPLYING THIS LOAD AT ANY LOCATION BETWEEN JOIST PANEL POINTS.

10. DEAD LOAD SHOWN IN THE DESIGN INFORMATION ACCOUNTS FOR A 5 PSF LOAD FOR WEIGHT OF JOISTS.

11. JOIST EXTENSIONS TO BE DESIGNED FOR SAME UNIFORM LOAD AS JOIST INCLUDING ANY ADDITIONAL DRIFT LOAD SHOWN IN THESE PLANS. 12. HANGING EQUIPMENT LOADS MUST BE SUPPORTED FROM TOP CHORD. EACH POINT LOAD ON THE JOIST MUST BE LESS THAN THE BEND CHECK LOAD SHOWN IN STEEL JOIST DESIGNER NOTES. WHERE HANGING EQUIPMENT IS OUTSIDE OF MECHANICAL ZONE, AN ADDITIONAL SUPPORT ANGLE SHALL BE PROVIDED TO TRANSFER LOAD TO NEAREST PANEL

13. COMBINED LOAD ON EACH JOIST FROM ROOF TOP EQUIPMENT AND INTERIOR HANGING EQUIPMENT SHALL NOT EXCEED THE ADD LOAD CALLED OUT IN THE STEEL JOIST DESIGNER NOTES

### **NOTES - STEEL DECK**

1. STEEL DECK SHALL MEET THE CURRENT SPECIFICATIONS OF THE STEEL DECK INSTITUTE.

2. STEEL DECK SHALL BE THREE SPAN MINIMUM UNLESS NOTED OTHERWISE. PROVIDE (2) LAYERS OF DECK WHERE A SINGLE SPAN OR TWO SPAN CONDITION EXISTS. MAKE DECK ATTACHMENTS AFTER PLACEMENT OF BOTH LAYERS OF ROOF DECK, WHERE REQUIRED, AT SINGLE AND TWO

3. G60/G60 GALVANIZATION SHOULD BE USED WHERE GALANIZED DECK IS CALLED OUT IN THESE DRAWINGS.

### **NOTES - COLD-FORMED METAL FRAMING**

1. ALL COLD FORMED STEEL MEMBERS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION FOR THE SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AISI "AMERICAN IRON AND STEEL INSTITUTE".

2. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED 3. ALL CONNECTIONS SHALL BE MADE PER THE MANUFACTURER'S RECOMMENDATIONS AND ADEQUATE PER THE TYPE, SIZE, AND NUMBER OF MEMBERS BEING CONNECTED. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGE OR WEBS OF BOTH UPPER AND LOWER TRACKS (PROVIDE FULL BEARING AGAINST THE INSIDE OF THE TRACK WEB, 1/16" MAX GAP).

4. ALL STUDS GALVANIZED WITH MINIMUM G60 COATING. 5. DEFLECTION CONDITIONS SHALL ALLOW FOR FRICTIONLESS, VERTICAL MOVEMENT. ALL CONNECTIONS REQUIRE A VALID ICC ES REPORT EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA (AC261).

### **NOTES - SHALLOW FOUNDATIONS**

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH ALL ASPECTS OF THE SOILS REPORT BEFORE BEGINNING CONSTRUCTION. 2. CONTRACTOR SHALL USE THE SOILS REPORT FOR SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS,

AND ANY OTHER SOILS RELATED ITEMS 3. CONTRACTOR SHALL REFER TO THE SOILS REPORT FOR ALL SOIL CONDITIONING REQUIREMENTS PRIOR TO PLACING BUILDING

4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.

5. ALL EXTERIOR AND PERIMETER FOOTINGS SHALL EXTEND BELOW FROST

DEPTH. REFERENCE DESIGN INFORMATION FOR FROST DEPTH.

### **NOTES - FOUNDATION**

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH IBC CHAPTER 18 FOR USE OF PRESUMPTIVE LOAD-BEARING CAPACITY. 2. CONTRACTOR SHALL USE IBC SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER

3. ALL FOUNDATIONS TO BEAR ON ORIGINAL, UNDISTURBED SOIL, REMOVE ANY MUD, ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL PRIOR TO PLACING FOUNDATIONS

4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY A QUALIFIED GEOTECHICAL ENGINEER PRIOR TO PLACING CONCRETE. 5. ALL EXTERIOR AND PERIMETER FOOTINGS SHALL EXTEND BELOW FROST DEPTH, REFERENCE DESIGN INFORMATION FOR FROST DEPTH.

### **NOTES - CONCRETE**

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE GOVERNING EDITION OF THE ACI 318, AND ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, UNLESS NOTED OTHERWISE

2. WATER REDUCING ADD MIXTURES ARE ALLOWED IN CONCRETE MIX

3. SYNTHETIC MICRO-FIBERS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.

4. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS. PROVIDE 3/4" CHAMFERS AT THE EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE. 5. REFERENCE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY, ANCHORS, BRICK LEDGE

ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS,

ANCHORS, ANGLES, ETC. 6. REFERENCE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI

7. REFERENCE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. 8. CONTACT APEX ENGINEERS, INC. IF HOUSE KEEPING PADS OR INERTIA BASES ARE REQUIRED BEYOND WHAT IS SHOWN IN THE STRUCTURAL

CONTRACT DOCUMENTS 9. ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.'

10. REINFORCING SHALL BE CONTINUOUS WHEREVER POSSIBLE. SPLICES AND LAPS TO CONFORM TO ACI 318. REFER TO CONCRETE REBAR SCHEDULE.

11. DOWELS IN FOOTING. WALLS, AND DRILLED PIERS MUST BE IN POSITION BEFORE PLACING CONCRETE WHENEVER POSSIBLE. 12. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT WALL AND SLAB OPENINGS. 13. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT CORNER AND TEE INTERSECTIONS. 14. PROVIDE VERTICAL CONTROL JOINTS ON ALL POURED CONCRETE WALLS AND BASEMENT WALLS, EXCEPT FOUNDATION STEM WALLS LOCATED IN THE GROUND. SPACE JOINTS AT 3 x WALL HEIGHT FOR WALLS LESS THAN 10'-0" AND WALL HEIGHT FOR TALLER WALLS. PROVIDE

15. OPENINGS IN SLAB OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

### **NOTES - STEEL**

1. ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE GOVERNING EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES." 2. BOLTED CONNECTIONS: ALL BOLTED CONNECTIONS SHALL BE

SNUG-TIGHT IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM F3125 GRADE A325 OR A490 BOLTS" PUBLISHED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.

3. WELDED CONNECTIONS: ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING SOCIETY CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 3.1 OF (AWS D1.1). ALL WELDING TO BE DONE BY QUALIFIED WELDERS CONFORMING TO THE AMERICAN WELDING SOCIETY STANDARDS.

4. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF APEX ENGINEERS, INC. 5. CHANGES IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS, AND HOLES, SLOTS, CUTS, ETC. THROUGH ANY MEMBER, ARE NOT PERMITTED UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS. 6. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

7. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP UNO. 8. ALL VISIBLE WELDED CONNECTIONS ON ARCHITECTURAL ELEMENTS TO BE GROUND SMOOTH. DO NOT REDUCE THROAT SIZE OF WELD. 9. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PERFORMANCE OF ALL CONNECTIONS NOT FULLY DESIGNED OR DETAILED IN THE CONTRACT DOCUMENTS. FABRICATOR TO PROVIDE ENGINEERED STAMPED SHOP DRAWINGS AND CALCULATIONS FOR ALL CONNECTIONS THAT DO NOT COMPLY WITH AISC STEEL CONSTRUCTION MANUAL

CHAPTER 10 SIMPLE SHEAR CONNECTIONS. 10. STEEL MEMBERS ON THE EXTERIOR OF THE BUILDING OR EXPOSED TO SOIL MUST BE, AT A MINIMUM, PROPERLY PRIMED WITH RUST INHIBITING PRIMER AND PAINTED. STEEL MEMBERS COMPLETELY ENCLOSED IN BUILDING ENVELOPE DO NOT REQUIRE PRIMER OR PAINT, UNO. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS OF EXPOSED STEEL.

## **NOTES - GENERAL**

WALLS AND SLABS NOT EXPOSED

INTERIOR BEAMS AND COLUMNS

TO GROUND OR WEATHER

(TO TIES OR STIRRUPS)

1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. 4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE

FRAMING AT THE TIME THE LOADS ARE IMPOSED. 5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR

6. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.

7. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN ON PLANS. 8. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. 9. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF

THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL

BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK

**PROCEEDS** 

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND HE SHALL VERIFY THAT ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS ARE COORDINATED WITH THE DIMENSIONS AND REQUIREMENTS OF THE CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

11. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED. AS SHOP DRAWINGS. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER TRADES, DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.

12. REVIEW AND RETURN OF SHOP DRAWINGS SHALL BE BASED ON A MINIMUM OF TEN (10) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE FROM RECEIPT OF SUBMISSION TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZE THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE NOTED ABOVE. DEFINITION OF A "LARGE VOLUME" OF SHOP DRAWINGS IS SUBJECT TO INTERPRETATION.

### **NOTES - DEFERRED SUBMITTALS**

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL. 2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.

3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE **BUILDING OFFICIAL** 

4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD

5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL. 6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER

AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION. 7. CONTRACTOR SHALL SUBMIT STRUCTURAL DEFERRED SUBMITTAL FOR THE FOLLOWING:

• PREFABRICATED WOOD TRUSSES

• STEEL GUARDRAILS AND HANDRAILS STEEL FABRICATED STAIRS AND LADDERS

• PRE-MANUFACTURED CANOPIES AND AWNINGS

### NOTES - SHOP DRAWING SUBMITTALS

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. SHOP DRAWING REVIEW IS INTENDED FOR VERIFICATION OF DESIGN CONCEPT CONVEYANCE AND GENERAL CONFORMANCE TO CONTRACT

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

3. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS SHOWN INCORRECTLY OR OMITTED AND NOT FLAGGED BY THE ENGINEER DURING REVIEW ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS.

4. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. DESIGNED SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.

5. SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS NOT PERMITTED AND MAY RESULT IN REJECTION. 6. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY

CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER

SHOP DRAWING REVIEW. 7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE

FOLLOWING: • CONCRETE MIX DESIGN, MATERIALS, AND TEST REPORTS

• CONCRETE REINFORCING STEEL, HARDWARE, AND FASTENERS STRUCTURAL STEEL FRAMING STEEL JOISTS AND DECKING

• MASONRY MATERIALS, GROUT MIX DESIGN, REINFORCING, STATEMENT OF COMPRESSIVE STRENGTH • ROUGH CARPENTRY HARDWARE, AND FASTENERS

 ENGINEERED WOOD FRAMING • COLD-FORMED METAL FRAMING, HARDWARE, AND FASTENERS

# MATERIAL SPECIFICATIONS

STEEL MATERIAL	S	YMBOL/TAG	D	
STEEL MEMBERS	MATERIAL			
WIDE FLANGE SHAPES (W)	ASTM A992		$\left(\begin{array}{c}X\end{array}\right)$	DE
CHANNELS (C), ANGLES (L)	ASTM A36		SX.X	SH
PLATES	ASTM A36	TOW	'. = XXX' - XX''	ELE
HOLLOW STRUCTURAL SHAPES (HSS)	ASTM A500, GRADE C		/. = XXX' - XX''	ELEV
HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325			
ANCHOR BOLTS (HEX-HEAD UNO)	ASTM F1554 (55 ksi) "S1"	T.O.X.		ELE
EPOXY ANCHOR RODS	ASTM A36		XXX' - XX''	
STEEL DECK, PLAIN STEEL	ASTM A1008, (33 ksi)	T.O.S. = XXX' - XX"		To
STEEL DECK, GALVANIZED	ASTM A653, (33 ksi)		JC	
NON-SHRINK GROUT, COL. BASES	5000 psi (28 DAY STRENGTH)	JST BRG = XXX' - XX"		
CONCRETE & REINFORCIN	IG STEEL SPECIFICATIONS		^	
MATERIAL	SPECIFICATION		X	RE
REINFORCING BARS	ASTM A615, GRADE 60	ABV	DEFINITION	
WELDED REBAR	ASTM A706	AB	ANCHOR BOLT	
WELDED WIRE FABRIC	ASTM A1064	CJ	CONTRACTION J	OINT
PORTLAND CEMENT	ASTM C 150	CL	CENTERLINE	
FLY ASH	ASTM C 618, 15% MAX	DIA	DIAMETER	
CONCRETE AGGREGATES	ASTM C 33, 3/4" MAX AGG. SIZE.	EOD	EDGE OF DECK	ANGLE
EPOXY - THREADED ROD ANCHORS	HILTI HIT-HY 200 A OR SIMPSON SET 3G	EOS	EDGE OF SLAB	
EPOXY - REINFORCING BARS	HILTI HIT-HY 200 R OR SIMPSON SET 3G	EXT	EXTERIOR	
REBAR CONDITION	MINIMUM CONCRETE COVER	GA	GAUGE	
FORMED SURFACES EXPOSED TO	2"	HAS	HEADED ANCHO	R STUD
GROUND OR WEATHER		ОС	ON CENTER	
UNFORMED SURFACE IN CONTACT	3"	PAF	POWDER ACTUA	TED FA
WITH THE GROUND	Ŭ	BASE	PI ATF TAG	

1 1/2"

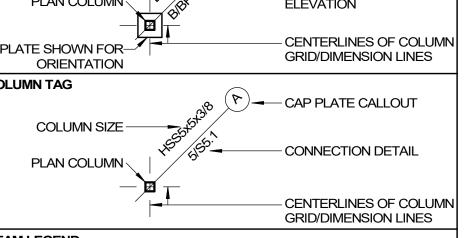
CON	CONCRETE MIX DESIGN REQUIREMENTS										
CONCRETE USE	WEIGHT	28 DAY fc	CEMENT TYPE	MAX W/C RATIO	SLUMP (+/- 1")	%					
OTINGS/PIERS	NW	3500 psi	I/II	0.55	5"	6%					
JNDATION WALLS	NW	3500 psi	I/II	0.50	4"	6%					
. SLAB-ON-GRADE	NW	4000 psi	1/11	0.45	5"	3%					

SYMBOL/TAG  DESCRIPTION  X SX.X  DETAIL ON SH SHEET NUMB  T.O.W. = XXX' - XX" B.O.W. = XXX' - XX"  ELEVATION (BOT  T.O.S. = XXX' - XX"  TOP OF STE ELEVATION  JOIST BEARII ELEVATION  REVISION MA  ABV DEFINITION  AB ANCHOR BOLT  DETAIL ON SH SHE SHE SHE SHE  AND  DETAIL ON SH SHE SHE SHE SHE SHE SHE  DETAIL ON SH SHE SHE SHE SHE SHE SHE SHE SHE SHE S	TOP) TTOM)  ARK  EL N NG	APPLIES TO  DETAILS, SECTIONS, & ELEVATIONS  FOUNDATION WALLS AND LEDGES (SIM)  LEVELS, SPOT ELEVATIONS, & PLAN ELEVATIONS  PLAN VIEW NOTATIONS
T.O.W. = XXX' - XX" B.O.W. = XXX' - XX"  ELEVATION (BOTTON OF STERM OF STER	GER TOP) TTOM) ARK EL N NG	& ELEVATIONS  FOUNDATION WALLS AND LEDGES (SIM)  LEVELS, SPOT ELEVATIONS, & PLAN ELEVATIONS
T.O.W. = XXX' - XX"  B.O.W. = XXX' - XX"  ELEVATION (BOTTON OF STERM OF STE	GER TOP) TTOM) ARK EL N NG	& ELEVATIONS  FOUNDATION WALLS AND LEDGES (SIM)  LEVELS, SPOT ELEVATIONS, & PLAN ELEVATIONS
T.O.W. = XXX' - XX"  B.O.W. = XXX' - XX"  T.O.S. = XXX' - XX"  TOP OF STE ELEVATION  ST BRG = XXX' - XX"  JOIST BEARIFE ELEVATION  REVISION MA  ABV DEFINITION  AB ANCHOR BOLT  SIN	TOP) TTOM) ARK EL N NG	AND LEDGES (SIM)  LEVELS, SPOT  ELEVATIONS, & PLAN  ELEVATIONS
B.O.W. = XXX' - XX"  ELEVATION (BOTOM PRODUCTION OF STERMS    T.O.S. = XXX' - XX"  TOP OF STERMS   ELEVATION    JOIST BEARING   ELEVATION    REVISION MARK    ABV	TTÓM) ARK EL N NG	AND LEDGES (SIM)  LEVELS, SPOT  ELEVATIONS, & PLAN  ELEVATIONS
T.O.X.  T.O.S. = XXX' - XX"  TOP OF STE ELEVATION  JOIST BEARII ELEVATION  REVISION MA  ABV DEFINITION  AB ANCHOR BOLT  SIN	ARK EL N	LEVELS, SPOT ELEVATIONS, & PLAN ELEVATIONS
JST BRG = XXX' - XX"  JOIST BEARING ELEVATION  REVISION MA  ABV DEFINITION  AB ANCHOR BOLT  SIN	NG	
JST BRG = XXX' - XX"  JOIST BEARII ELEVATION  REVISION MA  ABV DEFINITION  AB ANCHOR BOLT  JOIST BEARII ELEVATION  REVISION MA  SIM	NG	I LAN VILVV NOTATIONS
ABV DEFINITION AB AB ANCHOR BOLT SIM	<b>4</b>	PLAN VIEW NOTATIONS
AB ANCHOR BOLT SIM		SHEET REVISIONS
72 7210110112021	V DE	FINITION
		MILAR CONDITION
CJ CONTRACTION JOINT STE	O ST.	ANDARD
CL CENTERLINE TOO	C TC	P OF CONCRETE
DIA DIAMETER TOI	D TC	P OF DECK
EOD EDGE OF DECK ANGLE TO	L TC	P OF LEDGE
EOS EDGE OF SLAB TOM	и то	P OF MASONRY
EXT EXTERIOR TOS	S TC	OP OF STEEL
GA GAUGE TOV	N TC	OP OF WALL
HAS HEADED ANCHOR STUDS TYPE	> TY	PICAL CONDITION
OC ON CENTER UNC	O UN	ILESS NOTED OTHERWISI
PAF POWDER ACTUATED FASTNR WP		ORK POINT
BASE PLATE CALLOUT  PLAN COLUMN  PLATE SHOWN FOR  ORIENTATION  COLUMN TAG  COLUMN SIZE  PLAN COLUMN	) <u> </u>	BOTTOM OF BASE PLATE ELEVATION  CENTERLINES OF COLUM GRID/DIMENSION LINES  CAP PLATE CALLOUT  CONNECTION DETAIL
		CENTERLINES OF COLUM GRID/DIMENSION LINES
		EVENLY SPACED WEB STIFFENERS COMMENTS DETAIL
BEAM LEGEND  CAMBER SIZE  # OF COMPOSITE STUDS  BEAM SIZE  XX K  W16X36 (16) C=1" [8]	     {NOT	E) X/SXXX

- CONNECTION

# SOILS INFORMATION:

0.5 = xxx - xx			ATION		PLAN VIEW NOTATIONS			
ТВ	RG = XXX' - XX"		JOIST BEARING ELEVATION		PLAN VIEW NOTATIONS			
x		REVISIO	N MARK	(	SHEET REVISIONS			
V	DEFINITION		ABV	DEF	INITION			
3	ANCHOR BOLT		SIM	SIMI	LAR CONDITION			
J	CONTRACTION J	OINT	STD	STA	NDARD			
_	CENTERLINE		TOC	TOP	OF CONCRETE			
Ą	DIAMETER		TOD	TOP	OF DECK			
D	EDGE OF DECK ANGLE		TOL	TOP	OF LEDGE			
S	EDGE OF SLAB		TOM	TOP	OF MASONRY			
Т	EXTERIOR		TOS	TOP	OF STEEL			
4	GAUGE		TOW	TOP	OF WALL			
S	HEADED ANCHO	R STUDS	TYP	TYP	ICAL CONDITION			
2	ON CENTER		UNO	UNL	ESS NOTED OTHERWISE			
F	POWDER ACTUA	TED FASTNR	WP	WOI	RK POINT			
SE	SE PLATE TAG							
SE PLATE CALLOUT								



TOP OF STEEL

ELEVATION

MOMENT CONNECTION -

RESPONSE MODIFICATION, R	6.50
DEF. AMPLIFICATION FACTOR, Cd	4.00
OVERSTRENGTH FACTOR, $\Omega$	3.00
SEISMIC RESPONSE COEF., Cs	0.081
SEISMIC BASE SHEAR, V	0.7 kip
SEISMIC DESIGN CATEGORY	Q
SEISMIC RISK CATEGORY	II
ROOF SNOW LOAD DATA:	Main Buildin
GROUND SNOW LOAD, Pg	105 psf
SNOW LOAD IMPORTANCE FACTOR, Is	1.00
SNOW EXPOSURE FACTOR, Ce	1.00
THERMAL FACTOR, Ct	1.00
FLAT ROOF SNOW LOAD, Pf	74 psf
SLOPE FACTOR, Cs	0.73
SLOPED ROOF SNOW LOAD, Ps	54 psf
MINIMUM SNOW LOAD, P.,	0 psf

Will this lost city Los Lb, I ill	0 psi				
GRAVITY LOAD DATA:					
	LOADS				
OCCUPANCY OR USE	UNIFORM	POINT			
FLOOR DEAD LOADS					
• TYPICAL FLOOR	34 psf	N/A			
FLOOR LIVE LOADS					
• FIRST FLOOR	100 psf	1000 lbs			
HANDRAILS AND GUARDRAILS	50 plf	200 lbs			
• STAIRS AND EXIT WAYS	100 psf	300 lbs			
• UPPER FLOORS	75 psf	1000 lbs			
• WHOLESALE, ALL FLOORS	125 psf	1000 lbs			
ROOF DEAD LOADS					
• TYPICAL ROOF	29 psf	N/A			
ROOF LIVE LOADS					
• ROOF: ORDINARY FLAT PITCHED, AND CLIRVED	20 nef				



**BUILDING CODE:** 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND/OR AMENDED BY LOCAL BUILDING CODES

THE FOUNDATION DESIGN PROVIDED IS BASED OFF OF A MINIMUM ALLOWABLE PRESUMPTIVE LOAD-BEARING VALUE AS INDICATED BY IBC TABLE 1806.2 IN LIEU OF A SITE BASE GEOTECHNICAL EVALUATION. IT IS RECOMMENDED THAT A QUALIFIED GEOTECHNICAL ENGINEER BE RETAINED TO VERIFY THESE ASSUMPTIONS PRIOR TO CONSTRUCTION. B' USE OF THIS FOUNDATION DESIGN WITHOUT PROVIDING SUCH VERIFICATION, APEX WILL NOT BE LIABLE FOR THIS DESIGN PARAMETER AND THE OWNER SHALL ACCEPT ALL RISKS ASSOCIATED WITH DAMAGE TO THE STRUCTURE AS A RESULT OF EXPANSIVE. COMPRESSIBLE, SHIFTING. AND/OR DIFFERENTIAL MOVEMENT AS A RESULT OF DIFFERING SUBGRADE CONDITIONS BETWEEN EXISTING AND NEW FOUNDATION ELEMENTS. FROST DEPTH

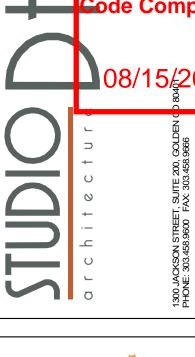
INOSTDEFIII		40			
PRESUMPTIVE LOAD-BEARING PRESS		1500 psf			
WIND DESIGN DATA:		Main Building			
OCCUPANCY CATEGORY		I	ı		
ULTIMATE WIND SPEED (3 SECOND G	UST), V			115	mph
WIND EXPOSURE CATEGORY				(	2
VELOCITY PRESSURE, qz				26.1	l psf
INTERNAL PRESSURE COEFFICIENT,	GC <sub>pi</sub>			+/-(	).18
WIND DESIGN COMPONENTS & CLAD	Main B	uilding			
EDGE REGION, a				6' -	· 5"
WALL ZONES	10 SF	20 SF	50 SF	100 SF	200 SF
4 & 5	31 psf	29 psf	28 psf	26 psf	25 psf
4	-33 psf	-32 psf	-30 psf	-29 psf	-27 psf
5	-41 psf	-38 psf	-35 psf	-32 psf	-29 psf
ROOF ZONES	10 SF	20 SF	50 SF	100 SF	200 SF
All Zones	23 psf	20 psf	16 psf	16 psf	16 psf
1	-41 psf	-36 psf	-30 psf	-26 psf	-26 psf
2e, 2r & 3	-57 psf	-51 psf	-43 psf	-37 psf	-31 psf
1 OH	-50 psf	-49 psf	-48 psf	-48 psf	-47 psf
2e & 2r OH	-64 psf	-61 psf	-58 psf	-55 psf	-52 psf
3 OH	-76 psf	-68 psf	-56 psf	-48 psf	-39 psf
SEISMIC DESIGN SITE DATA:					
SPECTRAL RESPONSE COEFFICIENTS	3	·	·	$S_S = 0.596$	
SI LOTIVAL NEOL ONOL COLITICIENTO	,			S <sub>1</sub> =	0.103

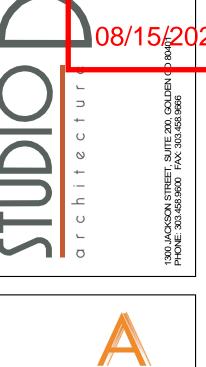
3 OH	-76 psf	-68 psf	-56 psf	-48 psf	-39 psf		
SEISMIC DESIGN SITE DATA:							
SPECTRAL RESPONSE COEFFICIENTS	$S_S = 0.596$						
OF LOTIVAL NEOF CIVIL GOLFF TOTAL VIC		$S_1 = 0.103$					
SITE CLASS (PER SOILS REPORT)	D						
DESIGN SPECTRAL RESPONSE					0.526		
ACCELERATIONS					0.164		
SEISMIC ANALYSIS PROCEDURE	RAL FOF	RCE					
SEISMIC DESIGN BUILDING DATA:	Main B	uilding					
LATERAL SYSTEM: A. BEARING WALL SYSTEMS, No. 15. LIGHT-FRAME							

(WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANE SHEAR RESISTANCE OR STEEL SHEETS	LS RATED FO
RESPONSE MODIFICATION, R	6.50
DEF. AMPLIFICATION FACTOR, Cd	4.00
OVERSTRENGTH FACTOR, $\Omega$	3.00
SEISMIC RESPONSE COEF., Cs	0.081
SEISMIC BASE SHEAR, V	0.7 kip
SEISMIC DESIGN CATEGORY	Q
SEISMIC RISK CATEGORY	II
ROOF SNOW LOAD DATA:	Main Buildin
GROUND SNOW LOAD, Pg	105 psf
SNOW LOAD IMPORTANCE FACTOR, Is	1.00
SNOW EXPOSURE FACTOR, Ce	1.00
THERMAL FACTOR, Ct	1.00
FLAT ROOF SNOW LOAD, Pf	74 psf
SLOPE FACTOR, C <sub>s</sub>	0.73
SLOPE FACTOR, C <sub>s</sub> SLOPED ROOF SNOW LOAD, P <sub>s</sub>	0.73 54 psf

IVIII VIIVIOIVI OI VOVV LOAD, I m	0 psi		
GRAVITY LOAD DATA:			
	LO	ADS	
OCCUPANCY OR USE	UNIFORM	POINT	
FLOOR DEAD LOADS			
• TYPICAL FLOOR	34 psf	N/A	
FLOOR LIVE LOADS			
• FIRST FLOOR	100 psf	1000 lbs	
HANDRAILS AND GUARDRAILS	50 plf	200 lbs	
• STAIRS AND EXIT WAYS	100 psf	300 lbs	
• UPPER FLOORS	75 psf	1000 lbs	
• WHOLESALE, ALL FLOORS	125 psf	1000 lbs	
ROOF DEAD LOADS			
TYPICAL ROOF	29 psf	N/A	
ROOF LIVE LOADS			
ROOF: ORDINARY FLAT, PITCHED, AND CURVED	20 psf		

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ISSUED FOR	BID REVISIONS											
DATE	06/08/2022 E											
JC	JOB NUMBER: Project Number											
AF	PEX	( J(	ЭB	NU	JME	3EF	₹:			43	52	6
DI	DESIGNED BY: Rodney Miller											
AF	PPF	RO1	⁄EI	ЭE	Y:						JM	L
D/	ATE	<u>:</u>					C	)7-	15	-2	02	2

SHEET:

**GENERAL NOTES AND** 

SPECIFICATIONS

SHEET TITLE:

C:\One\Apex\Proiects - 21\Studio DH Architecture\43526 - Christy Sports Steamboat\xxxxx - Christy Sports Stramboat APEX R21.rvt TIME STAMP: 7/15/2022 12:02:23 PM

SDI TABLE 1.1						
INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:						
TASK	QC	QA				
A. VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	Р	Р				
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	Р	Р				

SDI TABLE 1.2		
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT		
TASK	QC	QA
A. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS.	Р	Р
B. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS.	N/A	Р
C. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES.	Р	Р

SDI TABLE 1.3		
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING		
TASK	QC	QA
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	0	0
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	0	0
C. MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0
D. CHECK WELDING EQUIPMENT.	0	0

SDI TABLE 1.4		
INSPECTION OR EXECUTION TASKS DURING WELDING		
TASK	QC	QA
A. USE OF QUALIFIED WELDERS.	0	0
B. CONTROL AND HANDLING OF WELDING CONSUMABLES.	0	0
C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	0	0
D. WPS FOLLOWED	0	0

SDI TABLE 1.5		
INSPECTION OR EXECUTION TASKS AFTER WELDING		
TASK	QC	QA
A. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	Р	Р
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA.	Р	Р
C. VERIFY REPAIR ACTIVITIES.	Р	Р
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS.	Р	Р

SDI TABLE 1.6		
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING		
TASK	QC	QA
A. MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS.	0	0
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.	0	0
C.PROPER STORAGE FOR MECHANICAL FASTENERS.	0	0

SDI TABLE 1.7		
INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING		
TASK	QC	QA
A. FASTENERS ARE POSITIONED AS REQUIRED.	0	0
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	0	0

SDI TABLE 1.8		
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING		
TASK	QC	QA
A. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	Р	Р
B. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS.	Р	Р
C. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS.	Р	Р
D. VERIFY REPAIR ACTIVITIES.	Р	Р
E. DOCUMENT ACCEPTANCES OR REJECTION OF MECHANICAL FASTENERS.	Р	Р

P P O O	P P O
0	0
0	0
	•
Ο	0
0	0
0	0
0	-
2	

AISC TABLE N5.4-2		
INSPECTION TASKS DURING WELDING	QC	QA
1. USE OF QUALIFIED WELDERS	0	0
<ul><li>2. CONTROL AND HANDLING OF WELDING CONSUMABLES</li><li>PACKAGING</li><li>EXPOSURE CONTROL</li></ul>	0	0
3. NO WELDING OVER CRACKED TACK WELDS	0	0
4. ENVIRONMENTAL CONDITIONS  WIND SPEED WITHIN LIMITS  PRECIPITATION AND TEMPERATURE	0	0
5. WPS FOLLOWED  SETTINGS ON WELDING EQUIPMENT  TRAVEL SPEED  SELECTED WELDING MATERIALS  SHIELDING GAS TYPE/FLOW RATE  PREHEAT APPLIED  INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)  PROPER POSITION (F, V, H, OH)	0	0
6. WELDING TECHNIQUES  INTERPASS AND FINAL CLEANING  EACH PASS WITHIN PROFILE LIMITATIONS  EACH PASS MEETS QUALITY REQUIREMENTS	0	0

)A	AISC TABLE N5.4-3		
>	INSPECTION TASKS AFTER WELDING	QC	QA
<b>-</b>	1. WELDS CLEANED	0	0
<b>D</b>	2. SIZE, LENGTH AND LOCATION OF WELDS	Р	Р
P	3. WELDS MEET VISUAL ACCEPTANCE CRITERIA  CRACK PROHIBITION  WELD/BASE-METAL FUSION		
	<ul><li>CRATER CROSS SECTION</li><li>WELD PROFILES</li><li>WELD SIZE</li><li>UNDERCUT</li></ul>	Р	Р
)A	POROSITY		
o l	4. ARC STRIKES	P	Р
	5. K-AREA <sup>1</sup>	P	Р
)	6. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	Р	Р
<b>O</b>	7. REPAIR ACTIVITIES	Р	Р
	8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	Р

OSIN OKWEWBER		
<sup>1</sup> WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATE	SOR	
STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUAL	LY INSF	ECT
THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE	WELD	

	AISC TABLE N5.6-1		
_	INSPECTION TASKS PRIOR TO BOLTING	QC	QA
	1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	Р
	2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0
	3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0
	4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0
	5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0
	6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	Р	0
	7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	0

AISC TABLE N5.6-2				
INSPECTION TASKS DURING BOLTING	QC	QA		
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	0	0		
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	0		
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0		

AISC TABLE N5.6-3		
INSPECTION TASKS AFTER BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	Р

AISC TABLE N6.1		
INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	QC	QA
1. PLACEMENT AND INSTALLATION OF STEEL DECK	Р	Р
2. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	Р	Р
B. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL	Р	Р

# STATEMENT OF SPECIAL INSPECTION STATEMENT OF SPECIAL INSPECTION

IBC CODE	CONCEDUCTION TYPE		JENC	
REFERENCE	CONSTRUCTION TYPE		PEF	
1705.2	STEEL CONSTRUCTION			
1705.6	SOILS			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.			X	
_	AVATIONS ARE EXTENDED TO PROPER AVE REACHED PROPER MATERIAL.		Х	
3. PERFORM CI		X		
	OF PROPER MATERIALS, DENSITIES AND SES DURING PLACEMENT AND COMPACTION DEFILE.	×		
	ACEMENT OF COMPACTED FILL, OBSERVE D VERIFY THAT SITE HAS BEEN PREPARED		X	
1705.11.2	COLD-FORMED STEEL FRAMING			
1. MATERIAL VE	ERIFICATION:			
	SIZE AND THICKNESS TO MATCH CONTRACT SINCLUDING TRACKS, STUDS, ASSEMBLIES, SS.		Х	
B. FASTENER	R MATERIAL AND COMPONENTS		Х	
2. INSPECTION	OF INISTALLATION	-		
A. INSPECT MORIENTATION	MEMBER LAYOUT, CONNECTION,		Х	
B. SPECIAL IN PER MANUFA	NSPECTION REQUIRED FOR FASTENERS ACTURER.		Х	
	ON PRIOR TO SHEATHING: VERIFY FLANGES STUDS ARE NOT CUT OR SPLICED.		Х	
3. INSPECTION	OF WELDING.		Х	
1705.14	SPRAYED FIRE-RESISTANT MATERIALS			
1. STRUCTURA	L MEMBER SURFACE CONDITIONS.		X	
2. APPLICATION	N		X	
3. THICKNESS.			X	
4. DENSITY.			X	
5. BOND STREN	NGTH.		X	

IBC CODE	CONSTRUCTION TYPE	FREQUENC	
REFERENCE	CONSTRUCTION TYPE	CONT.	PEF
1705.2			
1705.2.1	STRUCTURAL STEEL		
	PECTION FOR STRUCTURAL STEEL SHALL BE	IN	
	WITH THE QUALITY ASSURANCE INSPECTION		
	S OF AISC 360. ( <b>REFER TO AISC CHARTS ON T</b>	HIS SHE	ET)
1705.2.2	COLD-FORMED STEEL DECK		
	PECTIONS AND QUALIFIACTIONS OF WELDING		
	FOR COLD-FORMED STEEL FLOOR AND ROOF I	_	HALL
	VANCE WITH THE QUALITY ASSURANCE INSPECTS OF SDI QA/QC. <b>(REFER TO SDI CHARTS ON 1</b>		===\
	· · · · · · · · · · · · · · · · · · ·		<u> </u>
1705.2.3	OPEN-WEB STEEL JOIST AND JOIST GIRDERS		
	ON OF OPEN-WEB STEEL JOISTS AND JOIST GIF	RDERS:	
	NECTIONS - WELDING OR BOLTED		X
	- HORIZONTAL OR DIAGONAL		
	RD BRIDGING		X
	G THAT DIFFERS FROM THE SJI		X
	TIONS LISTED IN SECTION 2207.1		
1705.3	REINFORCED CONCRETE		
	OF REINFORCING STEEL, INCLUDING		X
	G TENDONS, AND PLACEMENT.		
	OF REINFORCING STEEL WELDING:		
_	TION OF WELDABILITY OF REINFORCING		X
	R THAN ASTM A 706.		
	SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X
	ALL OTHER WELDS	Х	
	OF ANCHORS CAST IN CONCRETE:		X
	OF ANCHORS POST-INSTALLED IN		
	NCRETE MEMBERS.		
	ANCHORS INSTALLED IN HORIZONTALLY OR	X	
	NCLINED ORIENTATIONS TO RESIST TENSION LOADS.	^	
	CAL ANCHORS AND ADHESIVE ANCHORS NOT		
DEFINED IN 4			X
	JSE OF REQUIRED MIX DESIGN		X
	ONCRETE PLACEMENT, FABRICATE		
	OR STRENGTH TESTS, PERFORM SLUMP AND	X	
	TESTS, AND DETERMINE THE TEMPERATURE		
OF THE CONC			
7. INSPECTION	OF CONCRETE AND SHOTCRETE	Х	
PLACEMENT F	OR PROPER APPLICATION TECHNIQUES.		
	ITENANCE OF SPECIFIED CURING		X
	E AND TECHNIQUES.		
	OF PRESTRESSED CONCRETE:		
A. APPLICAT	ON OF PRESTRESSING FORCES.	X	
	G OF BONDED PRESTRESSING TENDONS IN	X	
	-FORCE-RESISTING SYSTEM.		
	OF PRECAST CONCRETE MEMBERS.		Х
	ON OF IN-SITU CONCRETE STRENGTH, PRIOR		.,
	G OF TENDONS IN POST-TENSIONED		X
	ID PRIOR TO REMOVAL OF SHORING.		
	ORMWORK FOR SHAPE, LOCATION AND		Х
	OF THE CONCRETE MEMBER BEING FORMED.	 	VC
	ECTION AGENCY TO PERFORM TESTS AT SEVE TY EIGHT (28) DAYS. A STRENGTH TEST SHALL		
AMERAGE OF T	THE STRENGTHS OF AT LEAST TWO (2) 6"x12" (	AN INIDE	RS
	THREE (3) 4"x8" CYLINDERS MADE FROM THE S		
	E. HOLD ONE ADDITIONAL CYLINDER IN RESERV		
	OMPLETED. TESTING LABORATORY IS TO FURN		•

B. AT LEAST ONCE FOR EACH 150 CUBIC YDS OF EACH CLASS PLACED EACH DAY C. AT LEAST ONCE FOR EACH 5000 SQFT OR SLAB WALL OR SURFACE AREA PLACED EACH DAY.

1705.4 REINFORCED MASONRY

1 COROLLA INCORDITIONS AND TESTS OF MASONIBY CONSTRUCTION. SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION
 SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE

PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602. (REFER TO TMS

PROJECT IS COMPLETED. TESTING LABORATORY IS TO FURNISH

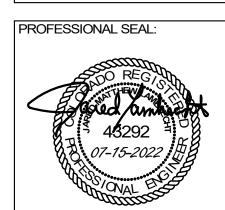
FREQUENCY OF TESTING IS TO BE IN ACCORDANCE WITH ACI 318:

A. AT LEAST ONCE EACH DAY A GIVEN CLASS IS PLACED

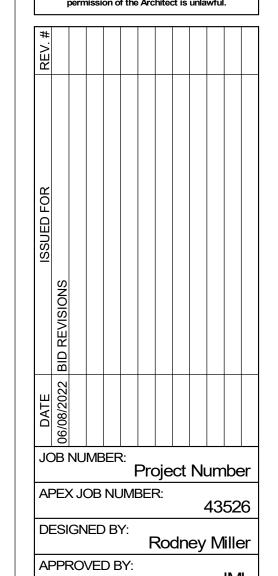
ARCHITECT/ENGINEER WITH TEST RESULTS PROMPTLY.

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SHEET TITLE:

SPECIAL INSPECTIONS

07-15-2022

### SCHEDULE - BASE PLATE

1. PROVIDE 5/16" FILLET WELD AT COLUMN TO BASE PLATE CONNECTION.
2. CAST-IN PLACE ANCHORS TO BE HEX-HEAD ASTM F1554 (55 KSI) UNO.
3. POST INSTALLED EPOXY ANCHORS TO BE THREADED ROD (55 KSI) INSTALLED IN HILTI HIT-HY 200 EPOXY OR SIMPSON SET XP EPOXY UNO.
4. POST INSTALLED HILTI HUS-EZ ANCHORS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

5. BASE PLATE <u>CONDITION REQUIRES COLUMNS BE DESIGNATED AS POSTS</u> AND SHALL BE TEMPORARILY BRACED DURING ERECTION PER OSHA PART 1926, BY OTHERS. BRACING MAY BE REMOVED ONCE ATTACHMENTS TO MAIN STRUCTURE ARE COMPLETE.

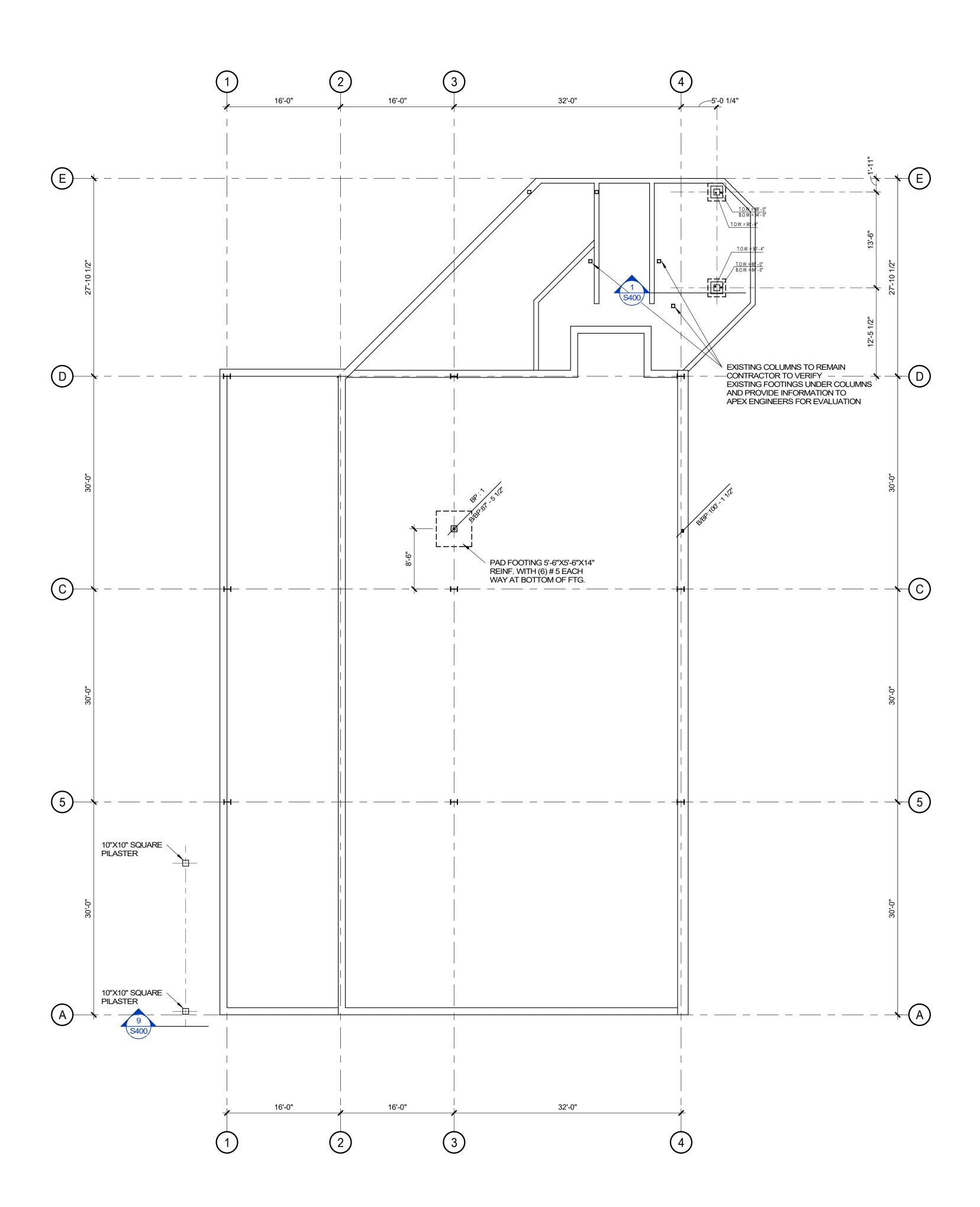
6. MAXIMUM SIZES OF ANCHOR-ROD HOLES IN BASE PLATES SHALL FOLLOW TABLE 14-2 OF THE AISC MANUAL. AN ADEQUATE WASHER SHOULD BE PROVIDED FOR EACH ANCHOR ROD.

7. PLATE WASHERS **MUST BE WELDED** TO THE BASE PLATE AT SHEAR TRANSFER CONDITIONS (I.E. MOMENT FRAME AND BRACED FRAME COLUMNS). PROVIDE 1/4" FILLET WELD ALL AROUND.

PLATE	E PLATE A.		A. BOLT	ANCHOR BOLT EMBED	
TYPE	SHAPE	THICKNESS	DIAMETER	HEX-HEAD	POST INSTALL
1	Α	1"	3/4"	12"	8"
2	В	1"	3/4"	12"	8"
3	С	3/4"	3/4"	12"	8"
PLATE TYPE	SHAPE	PLATE THICKNESS		BOLTS	
10	J	1/2"		3/4" THRU-B	OLT
11	K	1/2"		3/4" THRU-B	OLT
	11/2		SHAPE /	4	1 1/2"
*REF F	OOTNOTE	<b>≣</b> 5	*RI	EF FOOTNOTE :	5
	SH	1 1/2", 3", 1 APE B	1/2"	1 1/2" 1 1/4" SHA	3" 1 1/2" • • • • • • • • • • • • • • • • • • •
MIN.	3"- NEW	1 1/2"	,	EF FOOTNOTE S	1 1/2" 1 1/2"

5 SHAPE K

F SHAPE J

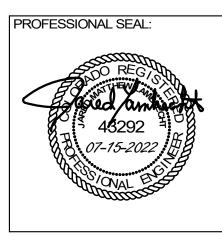




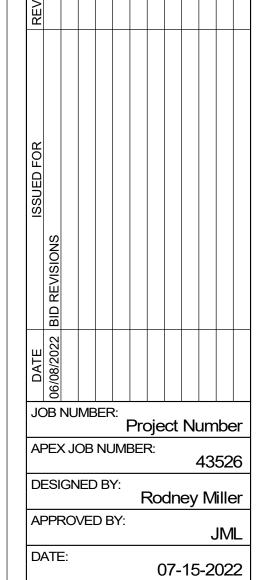
APEX ENGINEERS, INC. 2701 LAWRENCE ST. UNIT 19 DENVER, CO 80205 720.588.3222 www.apex-engineers.com

's Sports Steambo

2305 Mt. Werner Circle Steamboat Springs CO 8



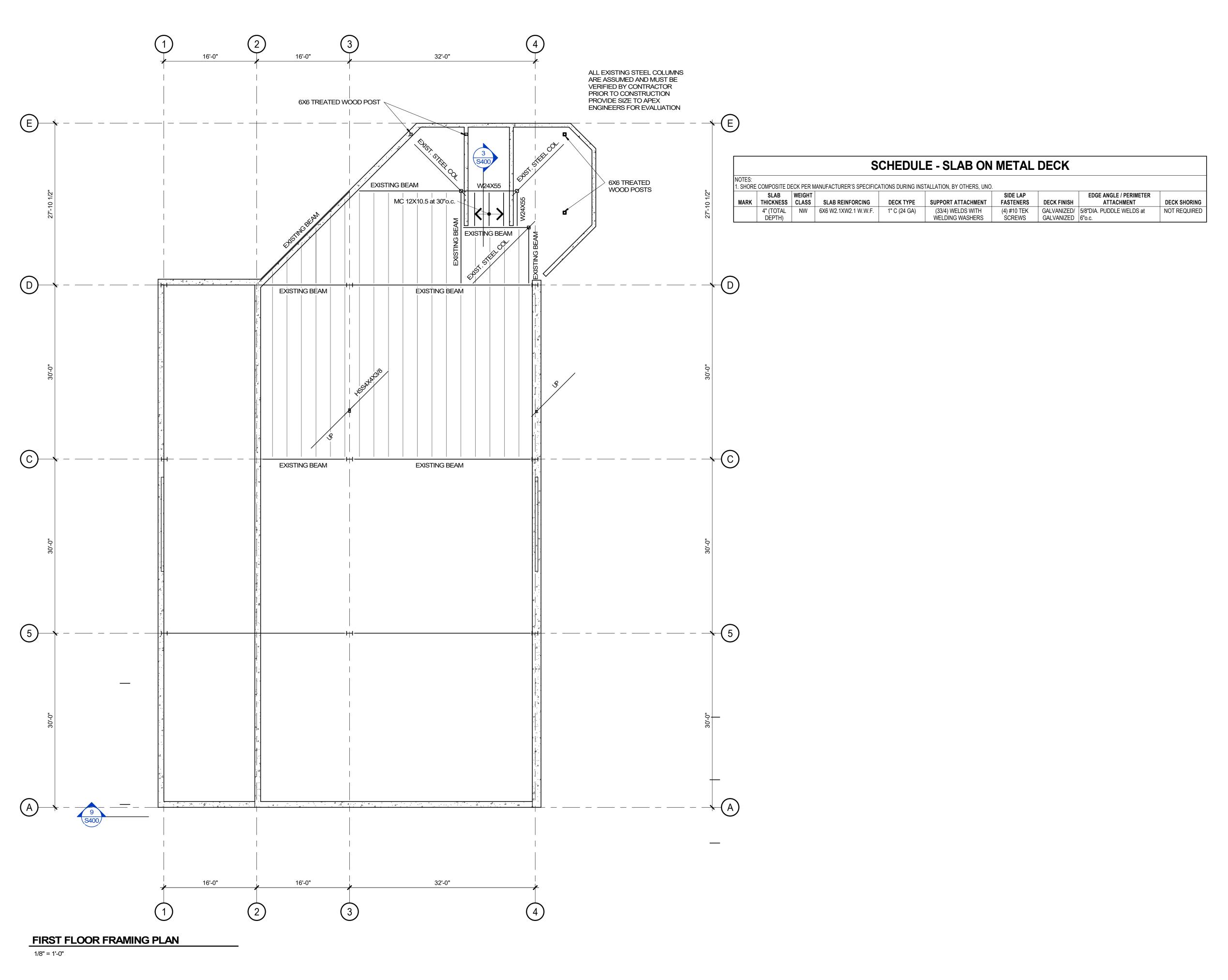
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SHEET:

FOUNDATION WALL PLAN

SHEET TITLE:



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08/15/2022

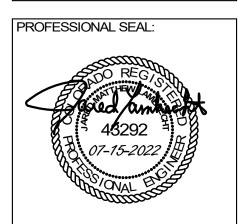
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ENGINEERS, INC.

2701 LAWRENCE ST. UNIT 19
DENVER, CO 80205
720.588.3222
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# 'OBUNDAN'S STORM STORM

APEX JOB NUMBER:

43526

DESIGNED BY:

Rodney Miller

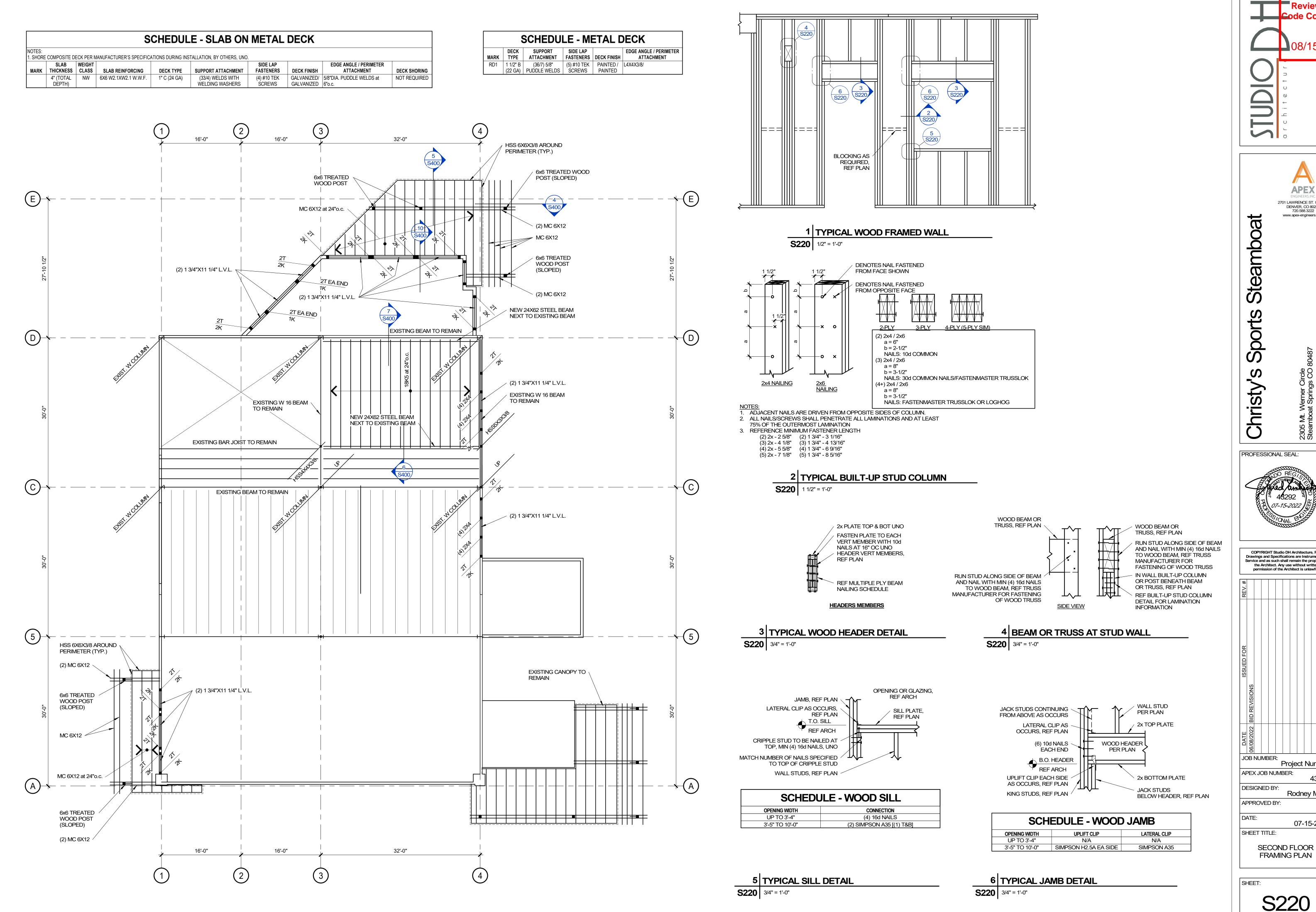
APPROVED BY:

SHEET TITLE:

MAIN LEVEL FRAMING PLAN

07-15-2022

SHEET:



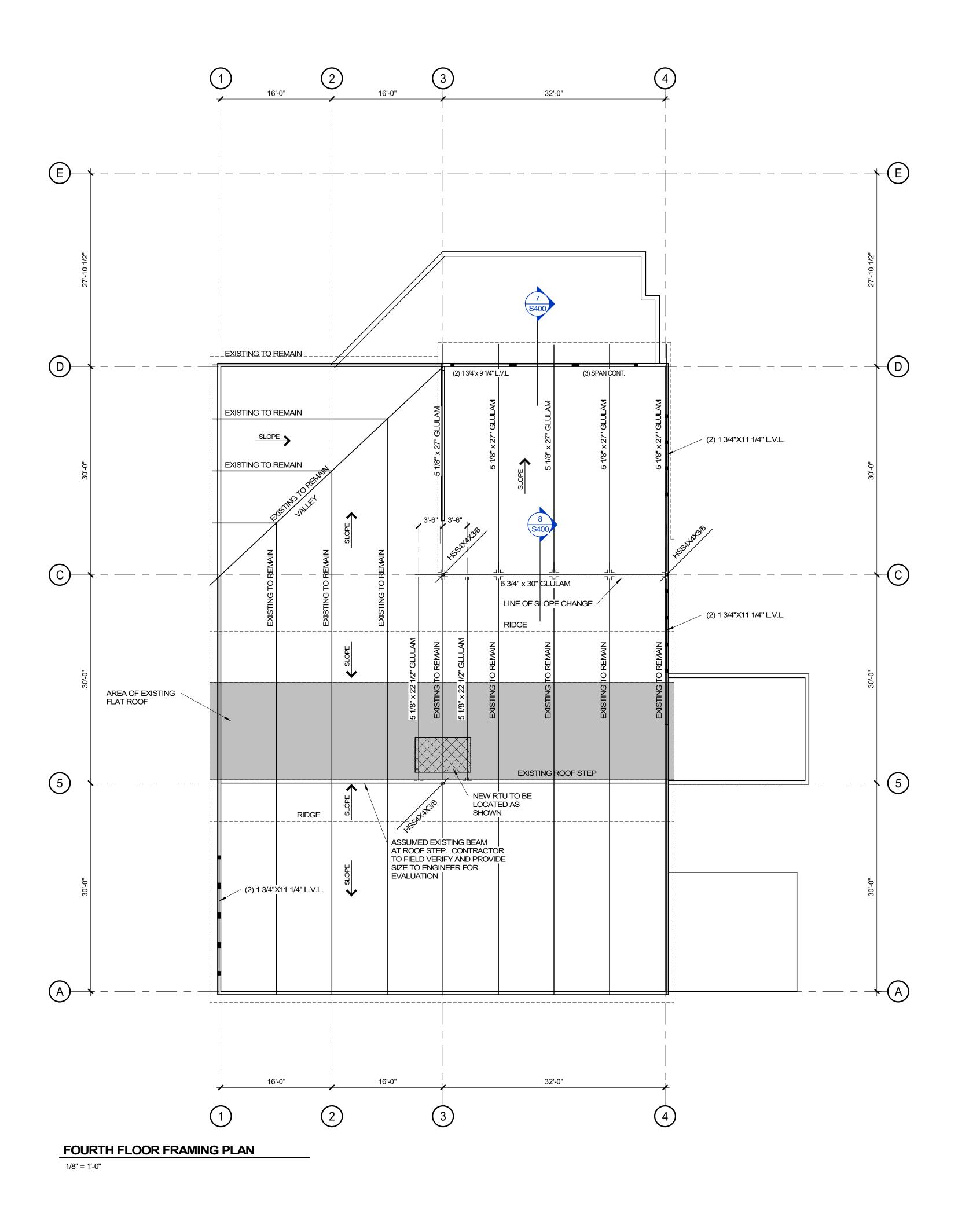
**C**ode Compliance

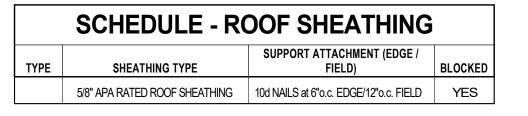
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Project Number APEX JOB NUMBER: Rodney Miller 07-15-2022









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PROFESSIONAL SEAL:

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