

GENERAL NOTES:

- REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
- REFER TO MECH./ELEC. FOR ALL INSERTS AND DRAIN LOCATIONS.
- REFER TO ARCH. FOR LOCATION OF FLOOR RECESSES, VERIFY ALL DIMENSIONS W/ARCH.

KEYED NOTES:

- NEW 4" CONCRETE SLAB ON GRADE W/18" O.C. EW @2' FROM TOP OVER PREPARED SUBGRADE REFER TO SOILS NOTE ON FOUNDATION PLANS
- CONTROL JOINT- SEE 50.38 (1/2 MAX EW).
- SEE PLUMBING FOR LOCATION OF FLOOR DRAINS.

LEGEND:

- NEW CONCRETE SLAB ON GRADE
- CMU WALLS - AS NOTED

THE EXISTING CONCRETE SLAB ON GRADE IS TO BE REMOVED AND REPLACED WITH A NEW CONCRETE SLAB ON GRADE ALONG WITH THE NEW BEARING AND SHEARWALL FOOTINGS AS SHOWN ON THE FOUNDATION PLAN. THE ORIGINAL STRUCTURAL PLANS INDICATED AN ASSUMED BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT. THIS WAS FOLLOWED THROUGHOUT THE DESIGN OF NEW BEARING AND SHEAR WALL FOOTINGS. HOWEVER, IT IS NOT CLEAR IF AN ORIGINAL GEOTECHNICAL REPORT EXISTS OR IF A NEW GEOTECHNICAL REPORT HAS BEEN CONDUCTED AND THEREFORE THE FOLLOWING IS NOTED:

ASSUME: SOIL PRESSURE = 1500psf (W/COMPETENT MAT'L)
NO SOILS REPORT WAS PROVIDED TO JJK GROUP, INC DURING THE FOUNDATION DESIGN AS A RESULT IT IS NOT KNOWN WHETHER OR NOT THE SUBSURFACE SOIL CONDITIONS ARE STABLE WHICH MAY IMPACT THE PERFORMANCE OF THIS DESIGN. THEREFORE, JJK GROUP, INC CANNOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE FOUNDATION BASED ON HIDDEN SOIL CONDITIONS NOT DISCOVERABLE WITHOUT SOILS INVESTIGATION.

FOUNDATION AND CONTROL JOINT PLAN WEST

ROCKLAND GREEN CENTER FOR ANIMAL RESCUE AND EDUCATIONAL SERVICES, INC
R.G. C.A.R.E.S. ANIMAL SHELTER
427 BEACH ROAD
W.HAVERSTRAW, NEW YORK 10983



JKK Group, Inc.
Consulting Structural Engineers

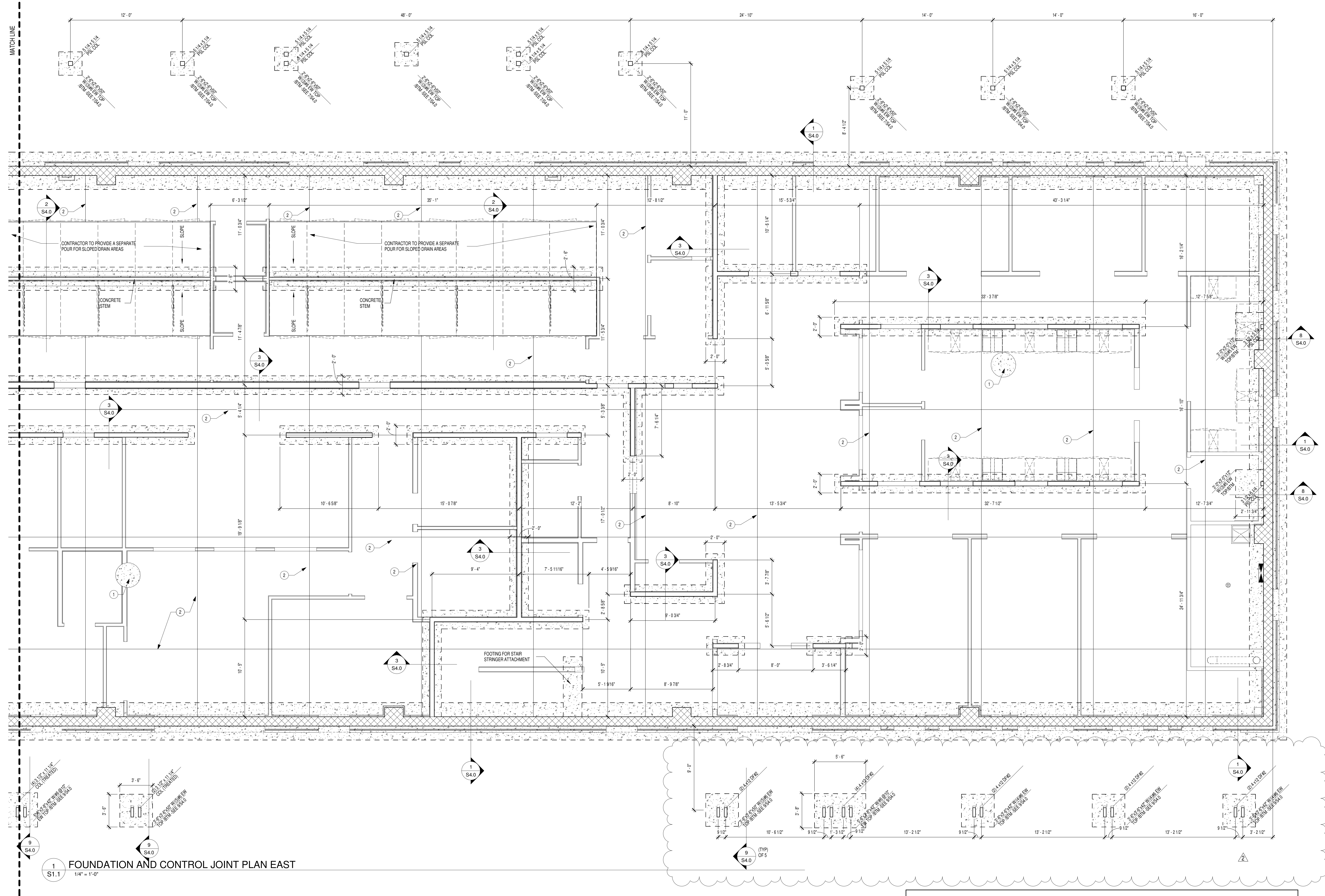
REVIEWS		
INITIALS	DATE	COMMENTS

RGAS
Project Number **2246**
Drawn By **JJR**
Date **3/11/2024**

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GENERAL NOTES :

1. REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
2. REFER TO MECH. ELEC. FOR ALL INSERTS AND DRAIN LOCATIONS.
3. REFER TO ARCH. FOR LOCATION OF FLOOR RECESSES. VERIFY ALL DIMENSIONS W/ARCH.

KEYED NOTES :

1. NEW 4" CONCRETE SLAB ON GRADE W/ #4 @ 18" O.C. EW @ 2" FROM TOP OVER PREPARED SUBGRADE REFER TO SOILS NOTE ON FOUNDATION PLANS
2. CONTROL JOINT- SEE SLOPE (1/2" MAX EW)
3. SEE PLUMBING FOR LOCATION OF FLOOR DRAINS.

LEGEND :

- NEW CONCRETE SLAB ON GRADE
- CMU WALLS- AS NOTED

THE EXISTING CONCRETE SLAB ON GRADE IS TO BE REMOVED AND REPLACED WITH A NEW CONCRETE SLAB ON GRADE ALONG WITH THE NEW BEARING AND SHEARWALL FOOTINGS AS SHOWN ON THE FOUNDATION PLAN. THE ORIGINAL STRUCTURAL PLANS INDICATED AN ASSUMED BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT. THIS WAS FOLLOWED THROUGHOUT THE DESIGN OF NEW BEARING AND SHEAR WALL FOOTINGS. HOWEVER, IT IS NOT CLEAR IF AN ORIGINAL GEOTECHNICAL REPORT EXISTS OR A NEW GEOTECHNICAL REPORT HAS BEEN CONDUCTED AND THEREFORE THE FOLLOWING IS NOTED:

ASSUME: SOIL PRESSURE = 1500psf (W/COMPETENT MAT'L)
NO SOILS REPORT WAS PROVIDED TO JJK GROUP, INC. DURING THE FOUNDATION DESIGN. AS A RESULT IT IS NOT KNOWN WHETHER OR NOT THE SUBSURFACE SOIL CONDITIONS ARE STABLE WHICH MAY IMPACT THE PERFORMANCE OF THIS DESIGN. THEREFORE, JJK GROUP, INC. CANNOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE FOUNDATION BASED ON HIDDEN SOIL CONDITIONS NOT DISCOVERABLE WITHOUT SOILS INVESTIGATION.

FOUNDATION AND CONTROL JOINT PLAN EAST

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REVIEWS		
INITIALS	DATE	COMMENTS

REVISIONS		
REVISION	DATE	COMMENTS
1	9/9/24	ADDENDUM
2		
3		

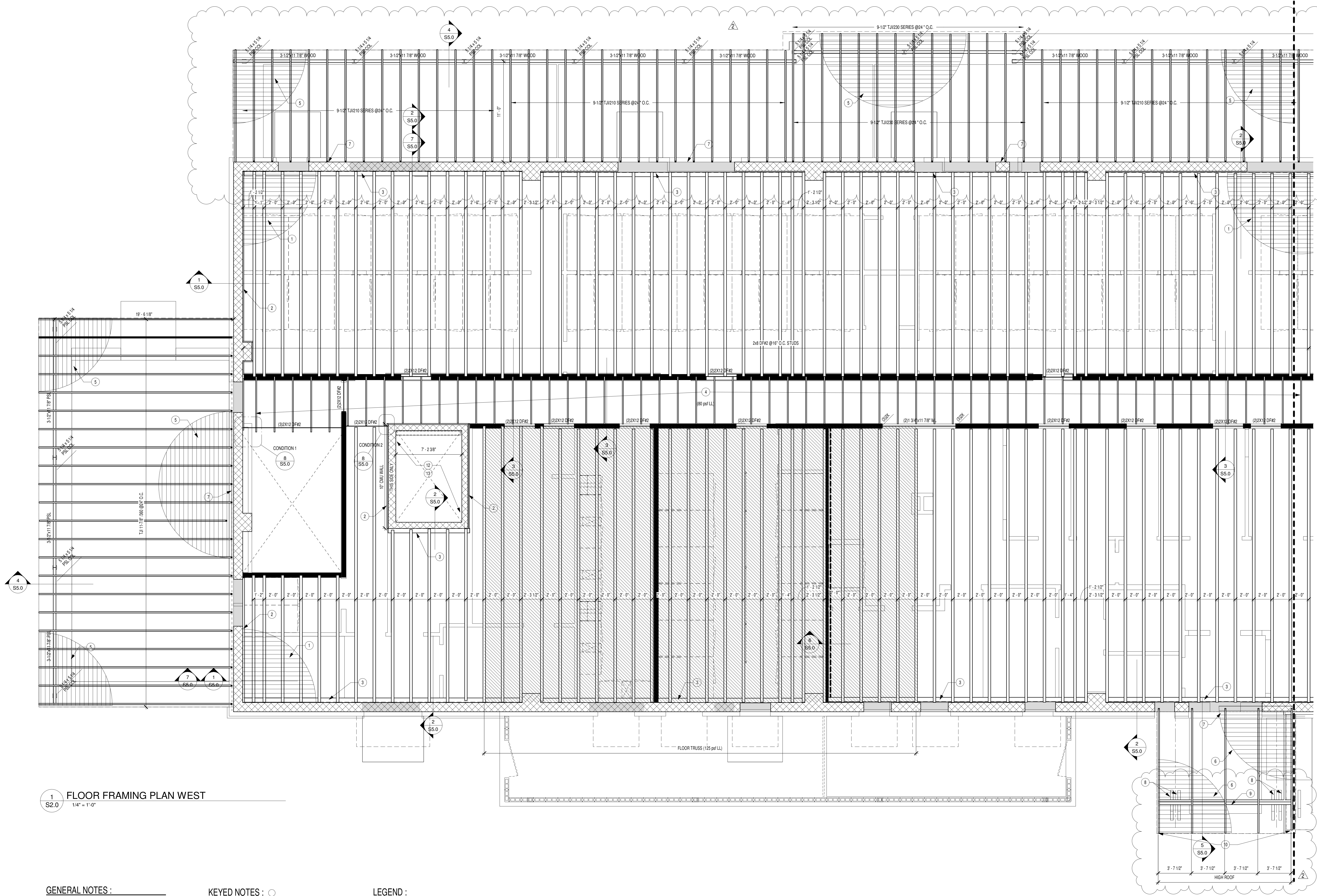
RGAS
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Drawn By JJR
Date 3/11/2024

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JKK
3342 Lant. Tides Bldg. C, Alhambra, New Mexico 87111, Tel: 505.266.5796, Fax: 505.266.1672, www.jkgroup.com
The undersigned professional engineer certifies that he is a duly licensed professional engineer in the State of New Mexico, and that he is the author of the design shown on this drawing. He certifies that he is not providing engineering services to any other party for the same project, and that he is not providing engineering services to any other party for the same project, and that he is not providing engineering services to any other party for the same project.

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1 FLOOR FRAMING PLAN WEST
1/4" = 1'-0"

GENERAL NOTES :

1. REFER TO GENERAL NOTES SHEETS FOR ALL REQUIREMENTS.
2. REFER TO ARCH. FOR ALL BEARING HEIGHTS.
3. REFER TO MECH. FOR ALL ROOF OPENINGS.
4. PROVIDE DOUBLE CRIPPLE (1) KING STUD FULL HEIGHT EA. NEW WOOD HEADER U.O.N.

KEYED NOTES :

1. 3/4" APA RATED WOOD FLOOR SHEATHING - SEE WS-1 SHEET S06.A
2. 3x8 DF#2 WOOD LEDGER W/4"X4"X12" SIMPSON TITEN HD @16" O.C. (INTO SOLID FILLED CMU). REQUIRES SPECIAL INSPECTION
3. L6x6x8 CONT. LEDGER - SEE S28.0
4. 2x10 DF#2 CORRIDOR FLOOR JOISTS @24" O.C.
5. 5x8" APA RATED ROOF SHEATHING - SEE TABLE WS-1 SHEET S06.A
6. FLAT 2x6 DF#2 ROOF DECKING
7. 3x8 DF#2 LEDGER W/1" (5/8"X8" EMBED) DRILLED EPOXY ANCHOR INTO FULLY CURED CELL @16" O.C.
8. 4x12 DF#2 - SEE ARCH (SKEWED) - SEE ARCH
9. 4x16 DF#2 BEAM
10. 2x12 DF#2 JOISTS @42" O.C.
11. PROVIDE DOUBLE CRIPPLE (1) KING STUD - FULL HEIGHT EA. NEW WOOD HEADER U.O.N.
12. ELEVATOR SHUTT PENETRATES THRU EXISTING ROOF TRUSSES - REFER TO 7/506.B FOR TYPICAL OPENINGS IN ROOF TRUSSES - FIELD VERIFY EXISTING CONDITION AND LOCATION OF TRUSSES. MANUF. OF PRE-ENGINEERED ROOF TRUSSES MUST PROVIDE STRUCTURAL DETAILS FOR POSSIBLE RE CONFIGURATION OF EXISTING TRUSSES. WROU HOST BEAM MINIMUM. ELEVATOR MANUF TO PROVIDE ENGINEER OF RECORD WITH CONNECTION DETAILS FOR APPROVAL

LEGEND :

- EXISTING NEW CMU WALL
- STEEL ANGLE SUPPORT LINTEL CMU LINTEL - SEE 4/S04.A
- 2x6 DF#2 WOOD BEARING STUDS @16" O.C. (I.O.N.)
- SHEARWALL - SEE SHEET S3.0

FLOOR /ROOF FRAMING PLAN WEST

REV #	DATE	COMMENTS
2	9/3/24	ADDENDUM
REVISION		
REVISION		
REVISION		

INITIALS	REVIEWS

RGAS
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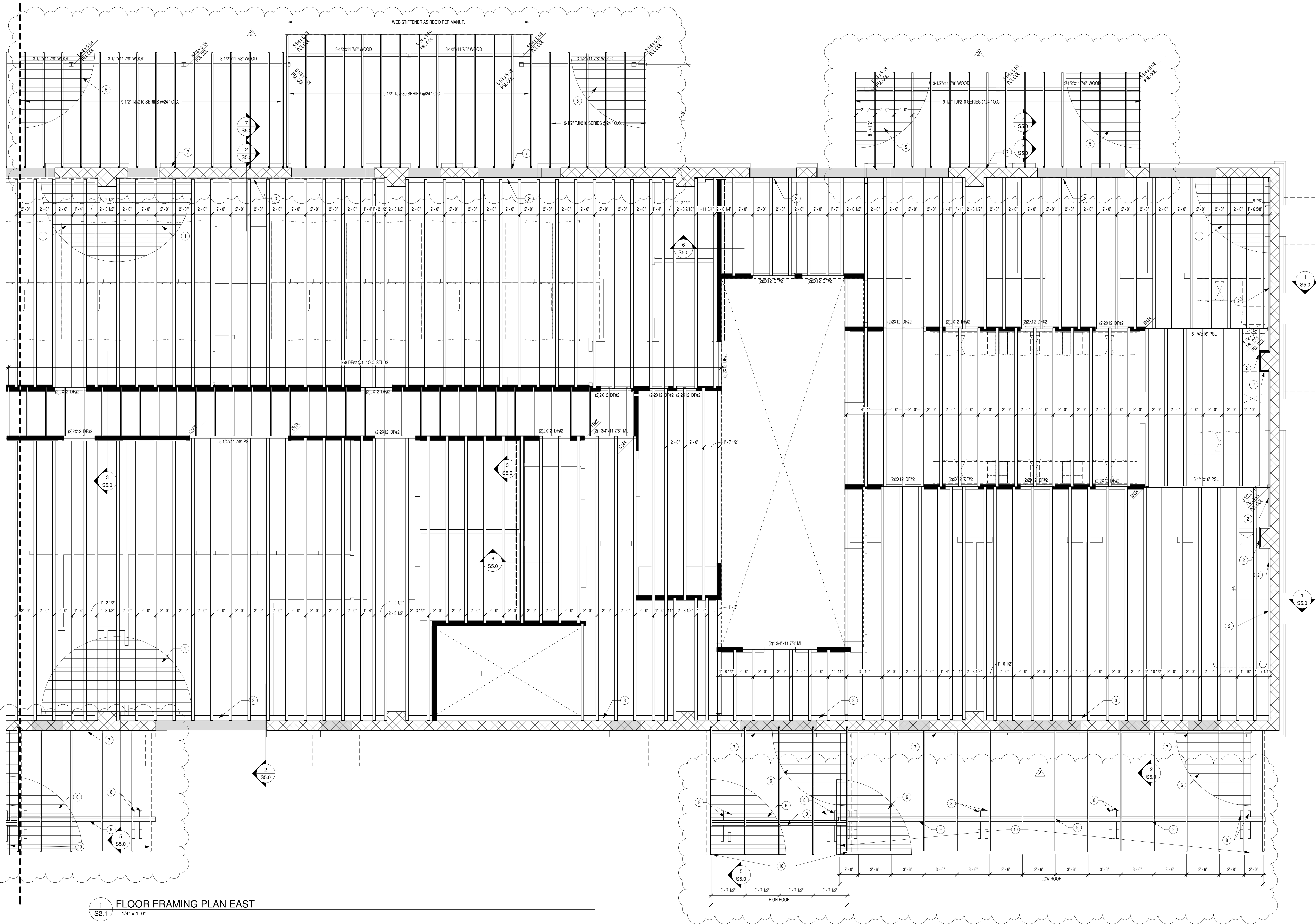
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3342 Linn. Road, Suite C, Alhambra, New York 11711 Tel: 845.266.5796 Fax: 845.266.1672 www.jjkgroup.com
The undersigned professional engineer is duly licensed and qualified in the State of New York to prepare and seal the drawings and specifications for the construction of the project described herein. The undersigned professional engineer is not providing any services for the project described herein that are outside the scope of his or her license. The undersigned professional engineer is not providing any services for the project described herein that are outside the scope of his or her license. The undersigned professional engineer is not providing any services for the project described herein that are outside the scope of his or her license.

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FLOOR /ROOF FRAMING PLAN EAST

REV #	DATE	COMMENTS
1	9/3/24	ADDENDUM
REVISION	REVISION	REVISION

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Project Number **2246**
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The above professional engineer's seal and title is limited to the design, calculation, analysis, evaluation and other engineering services performed by the engineer or under the direct supervision and control of the engineer. The seal and title shall not be used for any other purpose. The engineer shall not be responsible for the design, calculation, analysis, evaluation and other engineering services performed by others who are not under the direct supervision and control of the engineer. The engineer shall not be responsible for the design, calculation, analysis, evaluation and other engineering services performed by others who are not under the direct supervision and control of the engineer.







1
S3.0

MAIN LEVEL SHEARWALL PLAN

1/8" = 1'-0"

SHEARWALL LEGEND

- | | |
|---|---|
|  | SHEARWALL TYPE - SEE S06.E FOR SCHED. DETAILS |
|  | HOLDOWN TYPE - SEE S06.E FOR SCHED. DETAILS |
|  | WOOD, SHEARWALL LOCATION |
|  | DRAG FORCE |

JJK GROUP, INC. PERFORMED A LATERAL FORCE ANALYSIS TO THE EXISTING STRUCTURE DUE TO THE ADDED SEISMIC FORCES. THESE ADDED SEISMIC FORCES ARE DUE TO THE ADDITION OF A SECOND FLOOR SYSTEM DESIGNED BY JJK GROUP, INC. IN ORDER TO RESIST THESE ADDITIONAL SEISMIC FORCES, INTERIOR WOOD SHEARWALLS WERE STRATEGICALLY PLACED AS SHOWN ON THE ABOVE SHEARWALL PLAN LAYOUT. THE EXISTING STRUCTURE WAS DESIGNED BY OTHERS, INCLUDING THE LATERAL FORCE RESISTING SYSTEM AND ASSUMED TO BE PERFORMING SATISFACTORY. THEREFORE, NO ADDITIONAL ANALYSIS WAS PROVIDED FOR THE EXISTING LATERAL FORCE SYSTEM BY JJK GROUP, INC.



**ROCKLAND GREEN CENTER FOR ANIMAL
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SHEARWALL PLAN

REV #	DATE	COMMENTS
REVISION		
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REVIEWS	
INITIALS	

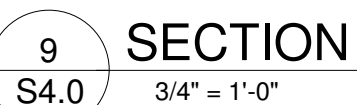
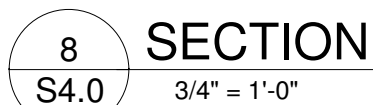
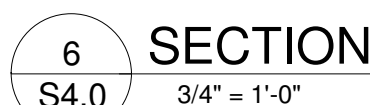
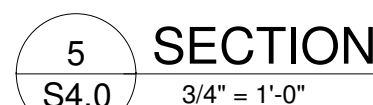
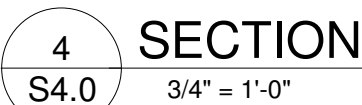
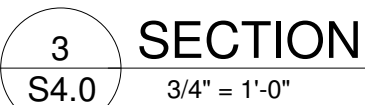
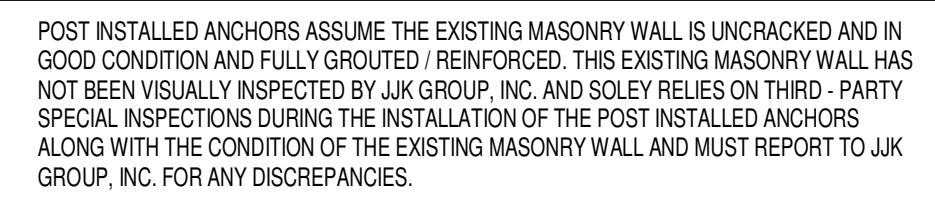
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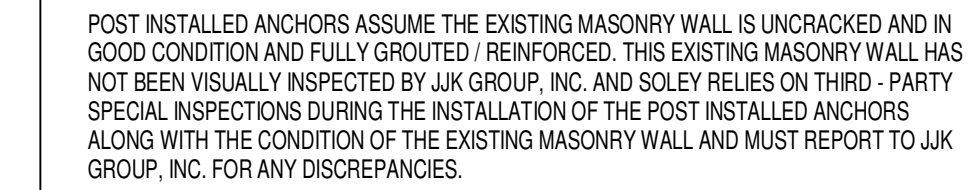
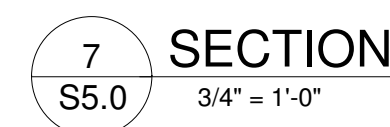
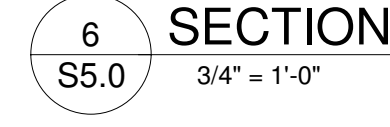
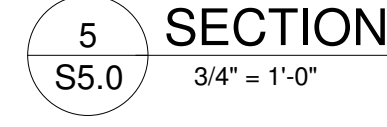
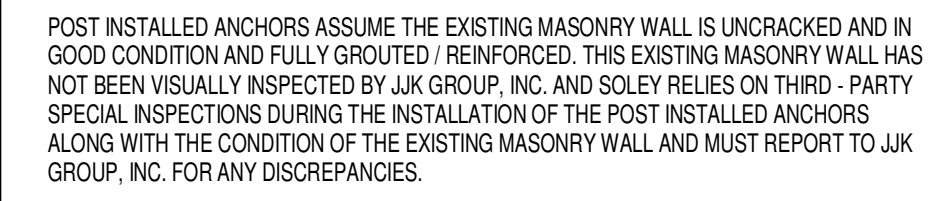
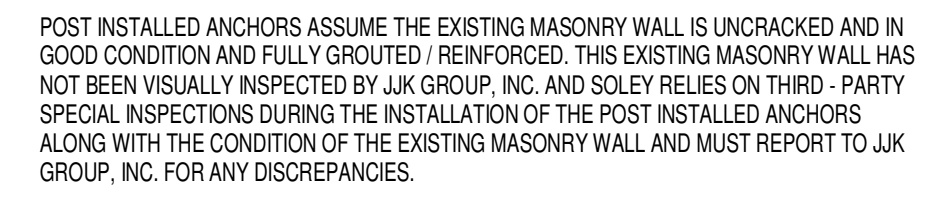
Project Number **2246**

Drawn By **Author**

Date **3/11/2024**

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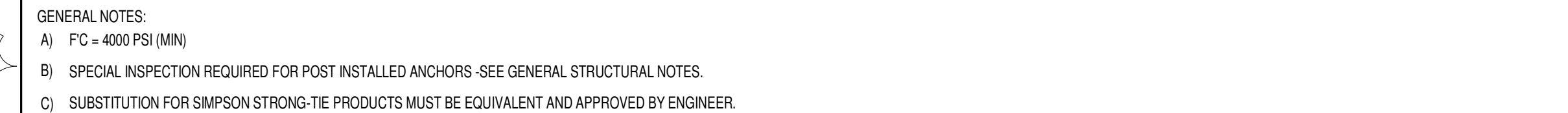




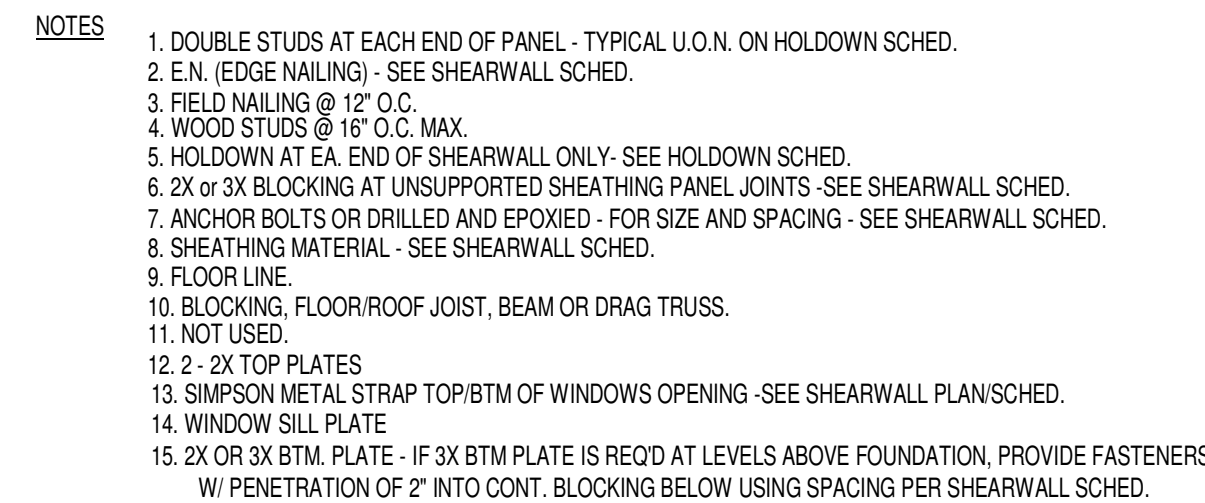
POST INSTALLED ANCHORS ASSUME THE EXISTING MASONRY WALL IS UNCRACKED AND IN GOOD CONDITION AND FULLY GROUTED / REINFORCED. THIS EXISTING MASONRY WALL HAS NOT BEEN VISUALLY INSPECTED BY JJK GROUP, INC. AND SOLE RELIES ON THIRD - PARTY SPECIAL INSPECTIONS DURING THE INSTALLATION OF THE POST INSTALLED ANCHORS ALONG WITH THE CONDITION OF THE EXISTING MASONRY WALL AND MUST REPORT TO JJK GROUP, INC. FOR ANY DISCREPANCIES.

SPECIAL NOTES FOR SHEAR WALLS:

(REFER TO SHEARWALL PLANS)



(4000 PSI -28 DAY CONCRETE COMPRESSIVE STRENGTH)



2 TYP V
S06.E 1/8" = 1'-0"



1 MISC
S06.E 1/8" = 1'-0"



(REFER TO SHEARWALL PLANS)

GENERAL NOTES

- THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, MEANS AND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING DEMOLITION CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OR STRUCTURAL OBSERVERS SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- THE USE OF ELECTRONIC FILES OR REPRODUCTION OF THESE CONTRACT DOCUMENTS FOR ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SHALL NOT BE PERMITTED.
- TYPICAL DETAILS AND NOTES ON STANDARD S00 SHEETS SHALL OTHERWISE APPLY UNLESS SPECIFICALLY SHOWN OR NOTED. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK, MATERIALS AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.

- FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON DRAWINGS. SEE ALSO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS. ALL OPENINGS AND PENETRATIONS SHALL BE LOCATED AND VERIFIED BY ALL TRADES FROM DRAWINGS MADE BY THEM. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK SHOWN ON DRAWINGS IF IN CONFLICT UNTIL RECEIVING CLARIFICATION FROM ARCHITECT. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS, IF APPLICABLE.

- ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS. RESOLVE ALL DISCREPANCIES WITH ARCHITECT PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS AT THE JOB SITE DURING CONSTRUCTION AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.

DO NOT SCALE DRAWINGS

- NO STRUCTURAL CHANGE FROM THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE IN THE FIELD UNLESS WRITTEN APPROVAL IS OBTAINED PRIOR TO MAKING SUCH CHANGE. CHANGES WITHOUT THE WRITTEN APPROVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONDITION SHALL BE REPAIRED OR REPLACED AS DIRECTED.
- THE MECHANICAL, ELECTRICAL, PLUMBING AND CONCRETE CONTRACTORS SHALL COORDINATE INSTALLATION OF THE REQUIRED INSERTS WITH THE GENERAL CONTRACTOR. REFER TO APPLICABLE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SUPPORT STRUCTURES AND INSERTS.
- THE MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS SHALL FURNISH ALL NECESSARY STRUCTURES FOR MECHANICAL EQUIPMENT, HANGING DEVICES AND INSERTS FOR INSTALLATION OF EQUIPMENT, DUCTS, PIPING, SEISMIC RESTRAINTS, CONDUIT ETC..

SUPPLEMENTARY NOTES

- CERTIFICATIONS:
REINFORCING OR THREADED RODS DRILLED AND EPOXIED INTO CONCRETE AS DETAILED OR NOTED ON THE CONSTRUCTION DOCUMENTS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT:

REPORT#	PRODUCT
ESR #S187	HILTI HY-200
ER #2024	DEWALT POWER DRIVEN FASTENERS
ESR #4057	DEWALT POWER DRIVEN FASTENERS CEILING CLIP AND SILL PLATE ANCHORAGES

INSTALLATION OF EPOXIED DOWELS SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE MANUFACTURER AND THE APPLICABLE ESR REPORT. WHERE SPALLING IS ANTICIPATED DUE TO INSUFFICIENT EDGE DISTANCE, USE THREADED ANCHOR ROD EPOXIED INTO DRILLED HOLE. CONTRACTOR SHALL HAVE ER REPORT ON-SITE DURING ALL INSTALLATIONS. THE CONTRACTOR SHALL USE THE LATEST REPORT FOR THE TIME OF INSTALLATION (FIRST OCCURRENCE) BUT SHALL UTILIZE THE SAME PARTICULAR REPORT FOR THE DURATION OF THE PROJECT.

EXPANSION BOLTS DRILLED AND INSTALLED INTO CONCRETE AS DETAILED OR NOTED ON THE CONSTRUCTION. DOCUMENTS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUIVALENT:

REPORT#	PRODUCT
ESR #1917	HILTI KWIK-BOLT TZ
ESR #5772	ITW REDHEAD TRUBOLT
ESR #5260	DEWALT POWERS POWER-BOLT
ESR #1396	SIMPSON STRONG TIE WEDGE-ALL
ESR #2024	DEWALT POWER DRIVEN FASTENERS CEILING CLIP AND SILL PLATE ANCHORAGES

INSTALLATION OF EXPANSION BOLTS SHALL FOLLOW THE STRICT RECOMMENDATION OF THE MANUFACTURER AND THE APPLICABLE ICBO-ESR REPORT. CONTRACTOR SHALL HAVE ER REPORT ON-SITE DURING ALL INSTALLATIONS. THE CONTRACTOR SHALL USE THE LATEST REPORT FOR THE TIME OF INSTALLATION (FIRST OCCURRENCE) BUT SHALL UTILIZE THE SAME PARTICULAR REPORT FOR THE DURATION OF THE PROJECT.

- MISCELLANEOUS:
THE USE OF ELECTRONIC FILES OR REPRODUCTION OF THESE CONTRACT DOCUMENTS FOR ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SHALL NOT BE PERMITTED

@----- AT	EW ----- EACH WAY	P.C. ----- PRECAST
A.B. ----- ANCHOR BOLT	EXST. ----- EXISTING	PLF ----- POUND PER LINEAR FOOT
APA ----- AMERICAN PLYWOOD ASSOCIATION	EXP ----- EXPANSION	PLWD ----- PLYWOOD
A.S.T.M. ----- AMERICAN SOCIETY OF TESTING MATERIALS	F.D. ----- FLOOR DRAIN	PSF ----- POUNDS PER SQUARE FOOT
ARCH. ----- ARCHITECTURAL	FDN ----- FOUNDATION	PSI ----- POUNDS PER SQUARE INCH
ASD ----- ALLOWABLE STRESS DESIGN	FTG ----- FOOTING	R. OR RAD. ----- RADIUS
B.D.G. ----- BUILDING	FT ----- FEET	REIN. ----- REINFORCING
BLK. ----- BLOCK	GALV. ----- GALVANIZE	REQD. ----- REQUIRED
BM. ----- BM	GA. ----- GAUGE	S.A. ----- STUD ANCHOR
BN. ----- BOUNDARY NAILING	HK ----- HOOK	SCHED. ----- SCHEDULE
B.O. ----- BOTTOM OF	HORIZ. ----- HORIZONTAL	SHT. ----- SHEET
BTM. ----- BOTTOM	HSS ----- HOLLOW STRUCTURAL SECTION	SM ----- SIMILAR
BRG. ----- BEARING	INT. ----- INTERIOR	S.J. ----- STEEL JOIST
BRK. ----- BRICK	JST ----- JOIST	SL ----- SNOW LOAD
C ----- CHANNEL	KLF ----- KIPS PER LINEAR FOOT	SPA ----- SPACING SPACES
CJ. ----- CONTROL JOINT	KSI ----- KIPS PER SQUARE INCH	SPEC. ----- SPECIFICATIONS
CCJ. ----- CONSTRUCTION CONTROL JOINT	LL ----- LIVE LOAD	S.S. ----- STAINLESS STEEL
CLR. ----- CLEAR	LLH ----- LONG LEG HORIZONTAL	STD ----- STANDARD
CMU ----- CONCRETE MASONRY UNIT	LLV ----- LONG LEG VERTICAL	STL ----- STEEL
COL. ----- COLUMN	LONG. ----- LONGITUDINAL	TEMP ----- TEMPORARY
CONC. ----- CONCRETE	LWC ----- LIGHT WEIGHT CONCRETE	T & B ----- TOP & BOTTOM
CONN. ----- CONNECTION	MANUF. ----- MANUFACTURER	T & G ----- TIE & GROOVE
CONT. ----- CONTINUOUS	MAS ----- MASONRY	THK. ----- THICK/THICKENED
CORR. ----- CORRIDOR	MAX ----- MAXIMUM	T.O. ----- TOP OF
DBL. ----- DOUBLE	MIN. ----- MINIMUM	TRANS. ----- TRANSVERSE
DTL. ----- DETAIL	MISC. ----- MISCELLANEOUS	TS ----- TUBE STEEL
DIA. ----- DIAMETER	MTL ----- METAL	TYP ----- TYPICAL
DM. ----- DIMENSION	M.O. ----- MECHANICAL OPENING	U.O.N. ----- UNLESS OTHERWISE NOTED
DL ----- DEAD LOAD	N. ----- NORTH	VERT. ----- VERTICAL
D.T. ----- DOUBLE TEE / DRAIN TILE	NTS ----- NOT TO SCALE	WD ----- WOOD
DWL ----- DOWEL	O.C. ----- ON CENTER	WL ----- WIND LOAD
EA ----- EACH	O.D. ----- OUTSIDE DIAMETER	WI ----- WITH
EF ----- EACH FACE	O.F. ----- OUTSIDE FACE	WO ----- WITH OUT
EJ ----- EXPANSION JOINT	O.H. ----- OVERHEAD	WT ----- WEIGHT
EL ----- ELEVATION	OPNG. ----- OPENING	WWF ----- WELDED WIRE FABRIC
ELEV ----- ELEVATOR	ORIG. ----- ORIGINAL	
E.N. ----- EDGE NAILING		
E.S. ----- EDGE SCREW		
EQ. ----- EQUAL		

SYMBOLS

	SECTION / ELEVATION	\$ STEPPED FOOTING
	REFER TO STRUCTURAL STEEL GENERAL NOTES FOR WRLD DETAILS	℄ CENTERLINE
		℄ PLATE
		L ANGLE
	ELEVATION / TOP OF BRG.	Ø DIAMETER

DESIGN CRITERIA

GOVERNING CODES AND MANUALS:

- INTERNATIONAL BUILDING CODE (IBC), 2016 EDITION
- AMERICAN CONCRETE INSTITUTE (ACI)
 - ACI 318 LATEST EDITION, BUILDING CODE REQUIREMENTS
 - ACI 301 LATEST EDITION, SPECIFICATIONS FOR STRUCTURAL CONCRETE
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
 - ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
- TMS 402/403 BUILDING CODE FOR MASONRY AND SPECIFICATIONS FOR MASONRY STRUCTURES
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS), LATEST EDITION
- SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS)

DESIGN LOADS

DEAD LOADS: DEAD LOADS HAVE CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE STRUCTURAL, MECHANICAL, ELECTRICAL AND ARCHITECTURAL PLANS ALONG WITH A MISCELLANEOUS LOADING OF 5 PSF.

LIVE LOADS:	ROOF LIVE LOADS PITCHED, FLAT OR CURVED FLOOR LIVE LOADS CORRIDORS ABOVE FIRST FLOOR LIGHT STORAGE TYPICAL MEZZANINE	= 20 PSF = 80 PSF = 125 PSF = 60 PSF
-------------	---	---

SNOW LOADS:	GROUND SNOW LOAD EXPOSURE CONDITION SNOW EXPOSURE FACTOR (Ce) THERMAL FACTOR (Ci) SNOW LOAD IMPORTANCE FACTOR (I) SLOPED-ROOF FACTOR (Cs) MIN. SNOW LOAD (Pi_min) FLAT ROOF SNOW LOAD (Pi) DESIGN SNOW LOAD (UNIFORM)	= 25 PSF = FULLY EXPOSED = .90 = 1.1 = 1.0 = 1.0 = 17.33 PSF = 17.33 PSF = 17.33 PSF MAX (gf_min, Pi)
-------------	---	---

WIND:	DRIFT NA ULTIMATE WIND SPEED RISK CATEGORY EXPOSURE CATEGORY ENCLOSURE CLASSIFICATION INTERNAL PRESSURE COEF. DIRECTIONALITY (Kd)	= 114 MPH = II = C = ENCLOSURE BLDG = 0.18 = 0.85
-------	---	--

MAIN (LFRS)	ROOF DOWN PRESSURE ROOF UPLIFT PRESSURE WALL INWARD PRESSURE WALL OUTWARD PRESSURE	= 0 PSF (UNFACTORED) = 16.85 PSF (UNFACTORED) = 13.254 PSF (UNFACTORED) = 30.054 PSF (COMBINED WALL PRESSURES)
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COMPONENTS AND CLADDING:
WORST CASE WIND ZONE PRESSURES (PSF) BASED ON THE FOLLOWING:
ZONE 1 (WALLS) @ CORNERS EFFECTIVE AREA OF 10 SQ.FT
ZONE 3 (ROOFS) @ CORNERS EFFECTIVE AREA OF 100 SQ.FT
ZONE WIDTH USED FOR WORST CASE CORNERS OF 6 FT (ROOFS)

ROOF UPLIFT PRESSURE ROOF DOWN PRESSURE WALL INWARD PRESSURE WALL OUTWARD PRESSURE	= -44.8 PSF (UNFACTORED) = 16.7 PSF (UNFACTORED) = 29.3 PSF (UNFACTORED) = -37 PSF (UNFACTORED)
---	--

OPEN STRUCTURES ROOF UPLIFT PRESSURE ROOF DOWN PRESSURE	= -23.3 PSF (UNFACTORED) = 25.6 PSF (UNFACTORED)
---	---

FREE STANDING WALLS/ SIGNS HORIZONTAL PRESSURE	= 24.8 PSF (UNFACTORED)
---	-------------------------

SEISMIC:	SEISMIC DATA RISK CATEGORY SEISMIC IMPORTANCE FACTOR (Ia) MAPPED SPECTRAL RESPONSE ACCELERATIONS Ss = 0.29 S1 = 0.81 SPECTRAL RESPONSE COEFFICIENTS Sds = 0.303 Sd1 = 0.098	= II = 1.00
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SITE CLASS SEISMIC DESIGN CATEGORY SEISMIC RESPONSE COEFFICIENT (Cs) ANALYSIS PROCEDURE	= D = B = 0.15 = EQUIVALENT LATERAL FORCE
--	--

MAIN (LFRS)	NORTH - SOUTH DIRECTION (R) (OMEGA) 6.5 2.5 (C0) 4 2 2 1.75 EAST - WEST DIRECTION (R) (OMEGA) 2 2 1.75	LIGHT FRAMED WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS ORDINARY REINFORCED MASONRY SHEARWALLS ORDINARY REINFORCED MASONRY SHEARWALLS
-------------	--	--

IRREGULARITIES HORIZONTAL NONE	VERTICAL NONE
--------------------------------------	------------------

NO SOILS REPORT
NO SOILS REPORT WAS PROVIDED TO JJK GROUP, INC. THEREFORE, JJK GROUP, INC. CANNOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE FOUNDATION DESIGN DUE TO HIDDEN SOIL CONDITIONS NOT DISCOVERABLE WITHOUT A SOILS INVESTIGATION.

REFER TO NOTE ON S1.0 AND S1.1

GENERAL SHOP DRAWING NOTES:

THE STRUCTURAL SHOP DRAWING REVIEW IS INTENDED TO HELP THE ENGINEER VERIFY HIS DESIGN CONCEPT. THE REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DESIGN DRAWINGS AND SPECIFICATIONS, WHICH HAVE PRIORITY OVER SHOP DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMED AND CORRELATED DIMENSIONS, FABRICATION PROCESSES, MEANS, METHODS, TECHNIQUES, SAFETY AND COORDINATION OF THE WORK WITH OTHER TRADES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK HIS OWN SHOP DRAWINGS AND THOSE OF HIS SUBCONTRACTORS.

THE STRUCTURAL SHOP DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO SUBMITTAL. THE SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF A CURSORY REVIEW SHOWS MAJOR ERRORS WHICH SHOULD HAVE BEEN FOUND BY THE CONTRACTOR'S REVIEW. ALL SHOP DRAWINGS SHALL INCLUDE PLAN LAYOUTS SHOWING LOCATIONS OF ITEMS DETAILED ON THE SHOP DRAWINGS. ANY CHANGES, SUBSTITUTIONS OR DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS. ANY OF THE CHANGES WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED REVERTED AFTER ENGINEER'S REVIEW UNLESS NOTED ACCORDINGLY. THE SUBMITTED SHOP DRAWINGS WILL BE REVIEWED BY THE ENGINEER OF RECORD IN A TIMELY MANNER, TYPICALLY TWO WEEKS IS STANDARD, ASSUMING ALL NECESSARY SHOP DRAWING SUBMITTAL CRITERIA HAVE BEEN MET AND ALL PERTINENT SHOP DRAWING DOCUMENTS REFLECT THE MOST CURRENT CONSTRUCTION DOCUMENTS IN SOME CASES THE SCALE WILL BE STIPULATED UPON RECEIPT OF A PARTICULAR SUBMITTAL PACKAGE. IN ALL CASES THIS REVIEW PERIOD IS EXCLUSIVE OF ARCHITECTURAL REVIEW AND SUBMITTAL PROCESSING.

SHOP DRAWINGS SHALL BE CONSIDERED RECEIVED ON THE SAME DAY IF RECEIVED BY 2:00PM (ENGINEER'S LOCAL TIME) ON THE DAY TRANSMITTED ELSE THEY SHALL BE CONSIDERED RECEIVED ON THE FIRST BUSINESS DAY FOLLOWING THE DAY TRANSMITTED (INCLUDING HOLIDAYS).

REQUIRED SHOP DRAWING SUBMITTALS

THE CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE SUBMITTALS FOR EACH OF THE HIGHLIGHTED (CHECK BOX FILLED IN) TO BE INCORPORATED INTO WORK:

DIVISION 03 - CONCRETE:

- CONCRETE MIX DESIGN

- CONCRETE REINFORCING LAYOUT

DIVISION 04 - MASONRY:

- MASONRY PRODUCT DATA
- MASONRY MORTAR MIX DESIGN
- MASONRY GROUT MIX DESIGN
- MASONRY LAYOUT WITH REINFORCING

DIVISION 05 - METALS:

- STRUCTURAL STEEL LAYOUT
- ENGINEERED METAL TRUSS LAYOUT
- PRE-ENGINEERED OPEN WEB JOIST LAYOUT
- LIGHT GAGE METAL LAYOUT

DIVISION 06 - WOOD AND COMPOSITE:

- LUMBER PRODUCT DATA
- ENGINEERED LUMBER/TIMBER PRODUCT DATA
- ENGINEERED WOOD JOIST LAYOUT
- PRE-ENGINEERED WOOD TRUSS DESIGN LAYOUT

GENERAL STRUCTURAL SHEET INDEX (S00 SERIES)

THE FOLLOWING SHEET INDEX INDICATES GENERAL STRUCTURAL SHEETS (S00 SERIES SHEETS). THESE SHEETS ARE STANDARDIZED TO CORRESPOND TO ASSOCIATED CSI MASTER SPECIFICATION DIVISIONS AND WILL BE HIGHLIGHTED (CHECK BOX FILLED IN) IF INCLUDED IN THIS PROJECT SET.

DIVISION 01 - GENERAL:

- S01.A GENERAL PROJECT NOTES, DRAWING CONVENTIONS, DESIGN CRITERIA AND SHEET INDEX
- S01.B SPECIAL INSPECTION NOTES AND TABLES
- S01.C SPECIAL INSPECTION NOTES AND TABLES

DIVISION 03 - CONCRETE:

- S03.A CONCRETE GENERAL NOTES AND DETAILS
- S03.B CONCRETE SLAB ON-GRADE REQUIREMENTS
- S03.C MISCELLANEOUS CONCRETE DETAILS
- S03.D CONCRETE SHEARWALL DETAILS AND SECTIONS

DIVISION 04 - MASONRY:

- S04.A MASONRY GENERAL NOTES, REINFORCING REQUIREMENTS AND LINTEL DIAGRAM
- S04.B MASONRY DETAILS AND MASONRY VENEER REQUIREMENTS
- S04.C MASONRY SHEARWALL DETAILS AND SECTIONS

DIVISION 05 - METALS:

- S05.A STRUCTURAL STEEL GENERAL NOTES AND DETAILS
- S05.B METAL DECK GENERAL NOTES AND DETAILS
- S05.C MOMENT RESISTING FRAMES BRACED FRAMES
- S05.D STEEL BRACED FRAME DETAILS AND SECTIONS
- S05.E LIGHT GAGE METAL FRAMING GENERAL NOTES AND DETAILS
- S05.F METAL SHEARWALL SCHEDULES DETAILS AND SECTIONS

DIVISION 06 - WOOD AND COMPOSITES:

- S06.A CARPENTRY GENERAL NOTES
- S06.B CARPENTRY GENERAL DETAILS
- S06.C CARPENTRY GENERAL DETAILS (2)
- S06.D WOOD STAIR AND SHAFT ENCLOSURE DETAILS
- S06.E SHEARWALL SCHEDULES AND ELEVATIONS

DIVISION 13 - SPECIAL CONSTRUCTION:

DIVISION 31 - EARTHWORK:

- S31.A EARTHWORK GENERAL NOTES AND DETAILS

DIVISION 32 - EXTERIOR IMPROVEMENTS:

- S32.A EXTERIOR DETAILS RETAINING WALLS / FENCE WALLS

STRUCTURAL SHEET INDEX

THE FOLLOWING SHEET INDEX INDICATES THE PROJECT SPECIFIC STRUCTURAL SHEETS.

- S1.0 FOUNDATION AND CONTROL JOINT PLAN WEST
- S1.1 FOUNDATION AND CONTROL JOINT PLAN EAST
- S2.0 FLOOR ROOF FRAMING PLAN WEST
- S2.1 FLOOR ROOF FRAMING PLAN EAST
- S3.0 SHEARWALL PLAN
- S4.0 FOUNDATION SECTIONS
- S5.0 FLOOR ROOF FRAMING SECTIONS

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GENERAL PROJECT NOTES, DRAWING CONVENTIONS,
DESIGN CRITERIA AND SHEET INDEX

INITIALS	REV #	DATE	COMMENTS

RGAS
Project Number 2246
Drawn By JJR
Date 3/11/2024

S01.A

SPECIAL INSPECTIONS AND TESTS OF SOILS				
TABLE 1705.6 ITEM	VERIFICATION AND INSPECTION TASK	FEQUENCY OF INSPECTION		REFERENCE FOR CRITERIA
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
1	VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X	1705.6
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X	1705.6
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X	1705.6
4	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---	1705.6
5	PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY	X	---	1705.6

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION						
TABLE 1906 ITEM	VERIFICATION AND INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODICAL SPECIAL INSPECTION	REFERENCE STANDARD	IBC REFERENCE	
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X	ASC 318 CH. 20, 25.2, 25.3, 25.5.1-26.5.3	1906.4	
2	REINFORCING BAR WELDING:					
2 a	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	---	X	PER AWS D1.4 ACI 318: 26.5.4	---	
2 b	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	---	X			
2 c	INSPECT ALL OTHER WELDS	X	---			
3	INSPECT ANCHORS CAST IN CONCRETE	---	X	ACI 318: 17.8.2	---	
4	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:					
4 a	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	---	ACI 318: 17.8.2.4	---	
4 b	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	---	X	ACI 318: 17.8.2.4	---	
5	VERIFY USE OF REQUIRED DESIGN MIX.	---	X	ASC 318 CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1906.2, 1906.3	
6	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C 172, ASTM C 311, ACI 318: 26.4.5, 26.12	1906.10	
7	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	ASC 318: 26.4.5	1906.6, 1906.7, 1906.8	
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ASC 318: 26.4.7, 26.4.9	1906.9	
9	INSPECT PRESTRESSED CONCRETE FOR:					
9 a	APPLICATION OF PRESTRESSING FORCES.	X	---	ACI 318: 26.9.2.1	---	
9 b	GROUTING OF BONDED PRESTRESSING TENDONS.	X	---	ACI 318: 26.9.2.3	---	
10	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318: CH. 26.9.2.1	---	
11	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ASC 318: 26.10.2	1906.9	
12	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: CH. 26.10.1 (b)	---	

LEVEL B QUALITY ASSURANCE OF MASONRY (TMS 402-13 / ACI 530-13 / ASCE 5-13 TABLE 3.1.2)						
MINIMUM TESTS						
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT.						
ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, AND 1 _{1b} VERIFICATION OF 1 ₁ AAC EXCEPT WHERE SPECIFICALLY EXEMPTED BY TMS 402-13/ACI 1330-13/ASCE 5-13.						
MINIMUM SPECIAL INSPECTION						
TABLE ITEM	VERIFICATION AND INSPECTION TASK	FREQUENCY (a)		REFERENCE FOR CRITERIA		
		CONTINUOUS	PERIODICALLY	TMS 402 / ACI 530 / ASCE 5	TMS 602 / ACI 530.1 / ASCE 6	
1	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	---	X	---	---	ART. 1.5
2	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
2 a	PROPORTIONS OF SITE-PREPARED MORTAR.	---	X	---	---	ART. 2.1, 2.6A
2 b	CONSTRUCTION OF MORTAR JOINTS.	---	X	---	---	ART. 3.3B
2 c	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	---	X	---	---	ART. 2.4B, 2.4H
2 d	LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS, AND ANCHORAGES	---	X	---	---	ART. 3.A, 3.6A
2 e	PRESTRESSING TECHNIQUE.	---	X	---	---	ART. 3.6B
2 f	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	X (b)	X (c)	---	---	ART. 2.1C
3	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
3 a	GROUT SPACE.	---	X	---	---	ART. 3.2D, 3.2F
3 b	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	---	X	SEC. 6.1	---	ART. 2.4, 3.4
3 c	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	---	X	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	---	ART. 3.2E, 3.4, 3.6A
3 d	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	---	X	---	---	ART. 2.6B, 2.4C.1.b
3 e	CONSTRUCTION OF MORTAR JOINTS.	---	X	---	---	ART. 3.3B
4	VERIFY DURING CONSTRUCTION:					
4 a	SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X	---	---	ART. 3.3F
4 b	TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	---	X	SEC.1.2.1(h), 6.1.4.3, 6.2.1	---	---
4 c	WELDING OF REINFORCEMENT.	X	---	SEC.8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	---	---
4 d	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	---	X	---	---	ART. 1.8C, 1.8D
4 e	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	X	---	---	---	ART. 3.6B
4 f	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	X	---	---	---	ART. 3.3, 3.6C
4 g	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	X (b)	X (c)	---	---	ART. 3.3B.9, 3.3F.1.b
4 h	INSTALLATION OF POST-INSTALLED ANCHORS ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. VERIFY ANCHOR DIMENSIONS, ADHESIVE IDENTIFICATION AND EXPIRATION DATE, HOLE DIMENSION, EDGE DISTANCES, EMBEDMENT DEPTH, TIGHTENING TORQUE, BASE- MATERIAL TEMPERATURE.	X (d)	X (e)	---	---	SEANM
5	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	---	X	---	---	ART.1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4
FOOTNOTES:						
(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTIONS, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.						
(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.						
(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.						
(d) REQUIRED FOR THE FIRST 10% OF EACH DIFFERENT TYPE OF ANCHOR AND/OR INSTALLER						
(e) REQUIRED FOR THE REMAINING 90% OF EACH DIFFERENT TYPE OF ANCHOR AND/OR INSTALLER						

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS PER IBC 2015

- SPECIAL INSPECTIONS / TESTING -
SPECIAL STRUCTURAL INSPECTIONS* ARE NOT TO BE CONFUSED WITH, NOR RELIEVE THE OWNER OF OWNER'S AGENT FROM THE JURISDICTION BUILDING DEPARTMENT INSPECTIONS REQUIRED BY IBC SECTION 110. SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS, MEANS AND METHODS AND JOBSITE SAFETY ARE SOLELEY THE RESPONSIBILITY OF THE CONTRACTOR. SEE SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
- REPORTING FOR SPECIAL INSPECTION -
SPECIAL INSPECTION AND TESTING REPORTS SHALL BE COMPLETED AND DISTRIBUTED ON A WEEKLY BASIS. REPORT DEFICIENCIES THAT HAVE NOT BEEN RESOLVED IMMEDIATELY. PROVIDE COPIES OF REPORTS TO: CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SPECIAL INSPECTOR TO KEEP A NON-COMPLAINT LIST DOCUMENTING ITEMS INSPECTED NOT MEETING APPROVED CONSTRUCTION DOCUMENTS AND WHEN HOW RESOLVED
- REFER TO IBC SECTION 1705 AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITIONAL NON-STRUCTURAL SPECIAL INSPECTION ITEMS.
- ANY FABRICATOR NEEDS TO BE APPROVED BY THE JURISDICTION BUILDING DEPARTMENT OR BE CERTIFIED BY AN INDUSTRY RECOGNIZED AGENCY QUALIFIED FOR SUCH CERTIFICATION. CERTIFICATION OF FABRICATORS ARE TO BE PROVIDED TO THE STRUCTURAL ENGINEER. THE SPECIAL INSPECTION ITEMS CONTAINED HEREIN ARE REQUIRED FOR ALL NON-CERTIFIED FABRICATORS.
- DEFINITION OF "PERIODIC" AND "CONTINUOUS" SPECIAL INSPECTIONS:
 - CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
 - PERIODIC: THE PART-TIME OF INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
 - WHERE "PERIODIC" SPECIAL INSPECTION IS REQUIRED, "PART-TIME" OR "INTERMITTENT" MEANS THAT INSPECTION OF THE TASK NEED TO BE PERFORMED FROM TIME TO TIME DURING THE PROGRESS OF THE TASK. THE PERIOD OF TIME BETWEEN INSPECTIONS VARIES GREATLY FOR DIFFERENT TYPES FO WORK DEPENDING ON THE TYPE OF INSPECTION DONE.
 - THE PERIOD OF TIME BETWEEN INSPECTION ALSO DEPENDS ON THE PACE OF CONSTRUCTION, THE NUMBER OF WORKERS, AND THE QUALITY OF WORKMANSHIP, AND OTHER FACTORS.
 - IT IS THE RESPONSIBILITY OF THE SPECIAL INSPECTOR TO PROVIDE INSPECTIONS AT AN APPROPRIATE FREQUENCY AND AT APPROPRIATE TIMES DURING CONSTRUCTION. THE INSPECTOR MUST HAVE ADEQUATE EXPERIENCE AND EXHIBIT GOOD JUDGEMENT IN DETERMINING THE FREQUENCY AND TIMING OF INSPECTIONS.

GRAPHIC CONVENTIONS

TABLE ITEM	VERIFICATION AND INSPECTION TASK
1	THIS CELL WITHOUT SHADE - ITEM IS NOT SCHEDULED FOR INCORPORATION INTO THE WORK
2	THIS CELL WITH SHADE - ITEM IS TO BE INCORPORATED INTO THE WORK

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SPECIAL INSPECTIONS AND TABLES (2)

REVIEWS		
INITIALS	DATE	COMMENTS

RGAS	
Project Number	2246
Drawn By	JJR
Date	3/11/2024

S01.B



JJK Group, Inc.
Consulting Structural Engineers



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The above professional engineer's seal and signature are required by the State of New Mexico for the preparation and submission of engineering documents. The seal and signature are required for the preparation and submission of engineering documents. The seal and signature are required for the preparation and submission of engineering documents. The seal and signature are required for the preparation and submission of engineering documents.

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CONCRETE SLAB-ON-GRADE REQUIREMENTS GENERAL

- SAW-CUT JOINTS AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH.
- THE DEPTH OF THE SAW-CUT WHEN USING A WET CUT SAW SHALL BE 1/4 THE SLAB THICKNESS.
- PROVIDE CONSTRUCTION JOINT AT THE END OF CONCRETE PLACEMENT FOR THE DAY. SEE DETAIL A (THIS SHEET).
- SEE FOUNDATION AND/OR CONTROL JOINT PLAN FOR ADDITIONAL INFORMATION.
- SEE GENERAL NOTE SHEET S02 FOR ADDITIONAL CONCRETE REQUIREMENTS.
- CONTRACTOR TO FAMILIARIZE HIMSELF WITH SOILS REPORT FOR SUBGRADE PREPARATION.

DESIGN

THE FOLLOWING MINIMUM ALLOWABLE REINFORCING RATIO USED IN THE DESIGN IS AS FOLLOWS:

1. % FOR WELDED WIRE FABRIC
2. % FOR REINFORCING BARS

THIS MINIMUM REINFORCING RATIO IS FOR SHRINKAGE AND KEEPING RANDOM CRACKING TIGHT. IT ALSO ALLOWS FOR LONGER JOINT SPANS.

ALSO ALLOWS FOR LONGER JOINT SPANS.

CONTROL/CONTRACTION JOINT SPACING WITH MINIMUM REINFORCING IS BASED OF THE FOLLOWING
SUBGRADE DRAG FORMULA:

$A_s \geq F L W / 2 F_s$ WHERE:

- | | |
|-------|--|
| A_s | CROSS-SECTION AREA OF STEEL, IN SQUARE INCHES PER LINEAL FOOT OF SLAB WIDTH |
| F | COEFFICIENT OF SUBGRADE FRICTION. (DESIGNERS USE 1.5 OR 2.0 FOR PAVEMENTS; 1.5 IS RECOMMENDED FOR CONCRETE FLOORS ON GROUND.) |
| L | SLAB LENGTH (OR WIDTH IF APPROPRIATE) BETWEEN FREE ENDS, IN FEET. (A FREE END IS ANY JOINT FREE TO MOVE IN A HORIZONTAL PLANE.) |
| W | WEIGHT OF SLAB, IN POUNDS PER SQUARE FOOT. (FOR NORMAL-WEIGHT CONCRETE, DESIGNERS USE 12.5 POUNDS PER INCH OF FLOOR THICKNESS.) |
| F_s | ALLOWABLE WORKING STRESS OF REINFORCEMENT, IN POUNDS PER SQUARE INCH. (THE WORKING STRESS OF STEEL IS USUALLY 0.67 TO 0.75 THE YIELD STRENGTH OF THE STEEL IN POUNDS PER SQUARE INCH.) |

DEFINITIONS

ISOLATION JOINTS

ISOLATION JOINTS ARE PLACED WHEREVER COMPLETE SEPARATION BETWEEN THE FLOOR AND ADJOINING CONCRETE IS NEEDED TO ALLOW THEM TO MOVE INDEPENDENTLY WITHOUT DAMAGE. ISOLATION JOINTS PERMIT HORIZONTAL AND VERTICAL MOVEMENT BETWEEN THE ABUTTING FACES OF THE FLOOR SLAB AND OTHER PARTS OF THE BUILDING BECAUSE THERE IS NO KEYWAY, BOND OR MECHANICAL CONNECTION ACROSS THE JOINT.

CONTROL/CONTRACTION JOINTS

CONTROL JOINTS (ALSO CALLED CONTRACTION JOINTS) ACT TO RELIEVE STRESS AND WITH PROPER SPACING (SEE CONTROL JOINT PLAN) THEY ELIMINATE THE CAUSE OF UNCONTROLLED RANDOM CRACKING. THEY ALLOW HORIZONTAL MOVEMENT OF THE SLAB. THE OBJECTIVE IS TO FORM A PLANE OF WEAKNESS IN THE SLAB SO THAT THE CRACK WILL OCCUR ALONG THAT LINE AND NOWHERE ELSE. AS SHOWN ON SECTIONS ON THIS SHEET ALL SLAB REINFORCING MUST BE DISCONTINUOUS THROUGH JOINT. LOAD TRANSFER ACROSS THE CONSTRUCTION JOINT IS PROVIDED BY USE OF DOWELS (A BOND BREAKER IS USED ON ONE END TO ALLOW HORIZONTAL MOVEMENT).

CONSTRUCTION JOINT

CONSTRUCTION JOINTS ARE STOPPING PLACES AND FORM THE EDGE OF EACH DAY'S WORK. THEY FREQUENTLY ALIGN WITH CONTROL/CONTRACTION JOINTS OR ISOLATION JOINTS. WHENEVER CONTINUOUS CONCRETE PLACEMENT WILL BE INTERRUPTED FOR 30 MINUTES OR MORE, A BONDED OR TIED CONSTRUCTION JOINT SHOULD BE FORMED AND DEFORMED REINFORCING BARS ADDED. IF THE CONSTRUCTION JOINT OCCURS WITHIN THE PANEL (I.E. BETWEEN SPECIFIED CONTROL/CONTRACTION JOINTS) ALL REINFORCING MUST CONTINUE THROUGH THE CONSTRUCTION JOINT.

VISIBLE CONDITIONS THAT MAY OCCUR DURING CONSTRUCTION RANDOM CRACKING

WHEN RANDOM CRACKING OCCURS ON A NEWLY PLACED SLAB, IT IS USUALLY RELATED TO IMPROPER TIMING OF JOINT SAWING. THE PURPOSE OF CUTTING THE SLAB IS TO INDUCE A CRACK BENEATH THE CUT.

RANDOM CRACKING

CONCRETE NEEDS TO GAIN ADEQUATE STRENGTH BEFORE HAVING JOINTS CUT INTO IT. IDEALLY, THE TENSILE STRENGTH HOLDS THE SLAB TOGETHER. THE SAWCUT NOTCH CREATES A REDUCED SLAB SECTION WHICH INCREASES THE TENSILE STRESSING IN THE CONCRETE BELOW THE NOTCH. IN THE REDUCED SECTION, THE TENSILE STRESS IS OF THE GREATER THAN THE CONCRETE TENSILE STRENGTH. THIS A CRACK OCCURS BELOW THE NOTCH. THE CRACK AND SAWCUT COMBINE TO RELIEVE THE STRESSES AND THUS PREVENT UNWANTED RANDOM CRACKING. BUT NEW CONCRETE IS ALWAYS TRYING TO SHRINK. AS THE SAWBLADE CUTS A JOINT IN THE CONCRETE, THE SAWCUT WEAKENS THE CONCRETE SLAB. IF SAWCUTTING IS STARTED WHEN CONTRACTION STRESS (AS A RESULT OF CONCRETE SHRINKAGE) IS GREAT AND TENSILE STRENGTH IS NOT YET ADEQUATE TO RESIST IT, CRACKS CAN JUMP AHEAD OF THE BLADE DURING JOINT CUTTING.

IF COOLING WATER (USED WITH WET SAWING) HITS THE WARM SLAB, IT CAN BE A THERMAL SHOCK THAT ADDS TO THE POTENTIAL FOR RANDOM CRACKING AHEAD OF THE SAW BLADE.

TO AVERT RANDOM CRACKING, SAWCUT JOINTING MUST BE DONE BEFORE CONCRETE COOLING AND DRYING STARTS. BUT AFTER SOME (TENSILE) STRENGTH HAS DEVELOPED (7 HOURS MAXIMUM AFTER CONCRETE IS POURED), THE NOTCH INSTALLED BY SAWCUTTING SHOULD BE DEEP ENOUGH THAT THE CRACK OCCURS BELOW THE SAWCUT (1/4 OF THE SLAB THICKNESS IS SUFFICIENT).

BLEEDING AND SET RETARDING

EXCESSIVE BLEEDING THAT OCCURS AFTER CONCRETE PLACING, STRIKEOFF, AND BULLFLOATING CAN DELAY SUBSEQUENT FINISHING STEPS. IN MOST INSTANCES, THE CAUSE OF EXCESSIVE BLEEDING IS DUE TO ONE OF THE FOLLOWING:

- A WATER/CEMENT RATIO THAT IS TOO HIGH
- POOR AGGREGATE GRADATION
- SLOW SET TIMES
- AMBIENT CONDITIONS THAT HINDER SURFACE WATER EVAPORATION: LOW TEMPERATURES, HIGH HUMIDITY, OR LACK OF AIR MOVEMENT

BLISTERING AND DELAMINATIONS

BLISTERING IS THE CONVEX RAISING OF THE SURFACE MORTAR LAYER WHILE THE CONCRETE IS STILL PLASTIC. THE BLISTERS ARE ATTRIBUTED TO SEALING THE FLOOR SURFACE BEFORE ALL THE BLEEDWATER AND AIR HAVE ESCAPED.

SIMILAR TO BLISTERING, DELAMINATION OF SURFACE MORTAR CAN OCCUR DUE TO ENTRAPMENT OF BLEEDWATER AND AIR BELOW THE PREMATURELY SEALED MORTAR SURFACE. DELAMINATIONS AFFECT LARGER SURFACE AREAS THAN BLISTERS, AND ARE VERY DIFFICULT TO DETECT DURING FINISHING. THEY BECOME APPARENT AFTER CONCRETE SURFACE DRYING WHEN THE DELAMINATED AREA IS CRUSHED UNDER TRAFFIC. THE THICKNESS OF DELAMINATED MORTAR RANGES FROM ABOUT 3 MM TO 9MM (1/8 IN TO 3/8 IN). THE AFFECTED AREA CAN BE ANYWHERE FROM A FEW SQUARE CENTIMETERS (INCHES) TO A FEW SQUARE METERS (YARDS).

IF THE CONCRETE HAS STIFFENED FROM THE TOP DOWN, AS IT OFTEN DOES WHEN WIND SPEEDS ARE HIGHER, THERE IS A TENDENCY TO FINISH THE SLAB TOO SOON, BEFORE BLEEDING IS COMPLETE. FINISHING OPERATIONS PERFORMED WHILE THE UNDERLYING CONCRETE IS STILL SOFT (AND BLEEDING) WILL SEAL THE SLAB SURFACE, POTENTIALLY TRAPPING BLEEDWATER AND LEADING TO DELAMINATIONS.

PLASTIC SHRINKAGE CRACKING

PLASTIC SHRINKAGE CRACKING IS DUE TO CONCRETE AT THE SURFACE DRYING (AND SHRINKING) BEFORE INITIAL SET OF THE CONCRETE OCCURS. PLASTIC SHRINKAGE OCCURS DURING AND AFTER FINISHING. USUALLY WHEN THERE IS RAPID EVAPORATION OF BLEEDWATER. THE CONDITIONS THAT LEAD TO RAPID WATER EVAPORATION ARE LOW RELATIVE HUMIDITY, HIGH AIR TEMPERATURES, RAPID AIR MOVEMENT (WIND) ACROSS THE CONCRETE SURFACE, AND ELEVATED CONCRETE TEMPERATURES. UNDER THESE CONDITIONS THE CONCRETE SURFACE CAN CRUST OVER WHILE THE UNDERLYING CONCRETE IS STILL PLASTIC. AS PLASTIC SHRINKAGE CRACKS FORM, THEY START AT THE SURFACE AND EXTEND SOME DEPTH INTO THE UNHARDENED CONCRETE. FLOATING THE CONCRETE SLAB CAN REPAIR PLASTIC SHRINKAGE CRACKS, BUT ONLY IF DONE IMMEDIATELY AS THE CRACKS OCCUR.

CRACKING

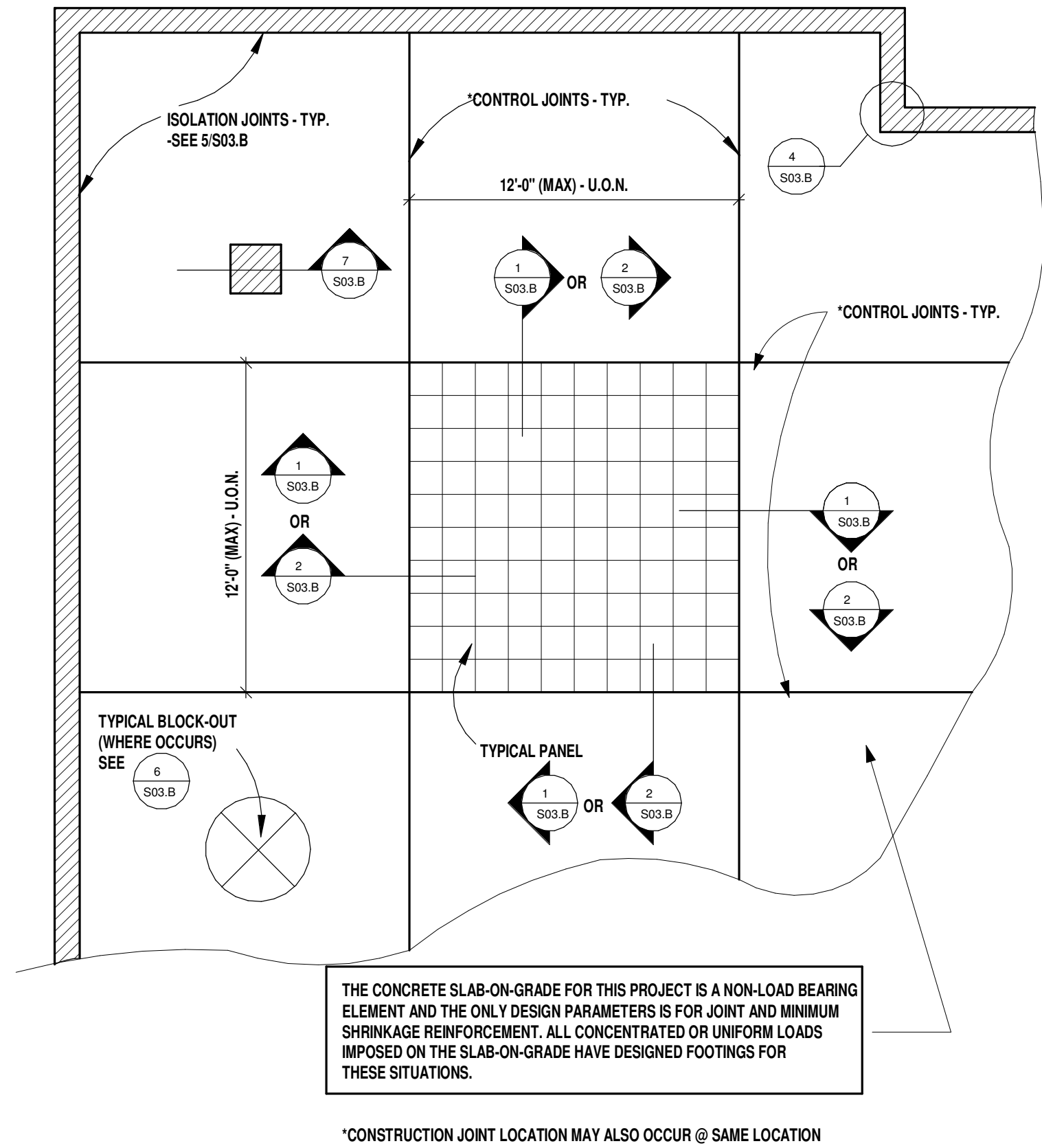
CRACKS CRACKS ARE FINE RANDOM CRACKS OF FISSURES IN A CONCRETE SURFACE. ON CONCRETE FLATWORK, THEY USUALLY EXTEND LESS THAN 3 MM (1/4 IN) BELOW THE SURFACE. THE CRACKS OCCUR WITHIN THE PASTE-RICH SURFACE MORTAR AND GENERALLY PASS THROUGH THE PASTE AND NOT THROUGH AGGREGATE PARTICLES. IT IS TYPICAL FOR THE CRACKS TO FORM A MAP PATTERN. THE NARROW CRACKS ARE SO FINE THAT THEY ARE DIFFICULT TO SEE. IN MANY INSTANCES, THEY ARE ONLY VISIBLE DURING THE DRYING PHASE OF A WETTED SURFACE OR WHEN A TRANSLUCENT COATING IS INSTALLED. CRAZE CRACKS ARE ATTRIBUTED TO INADEQUATE CURING THAT LEADS TO CONCRETE SURFACE DRYING AND COOLING BEFORE THE MORTAR HAS GAINED SUFFICIENT STRENGTH. THESE ARE COSMETIC BLEMISHES THAT GENERALLY HAVE NO EFFECT ON THE SERVICEABILITY OR DURABILITY OF THE FLOOR.

CURLING

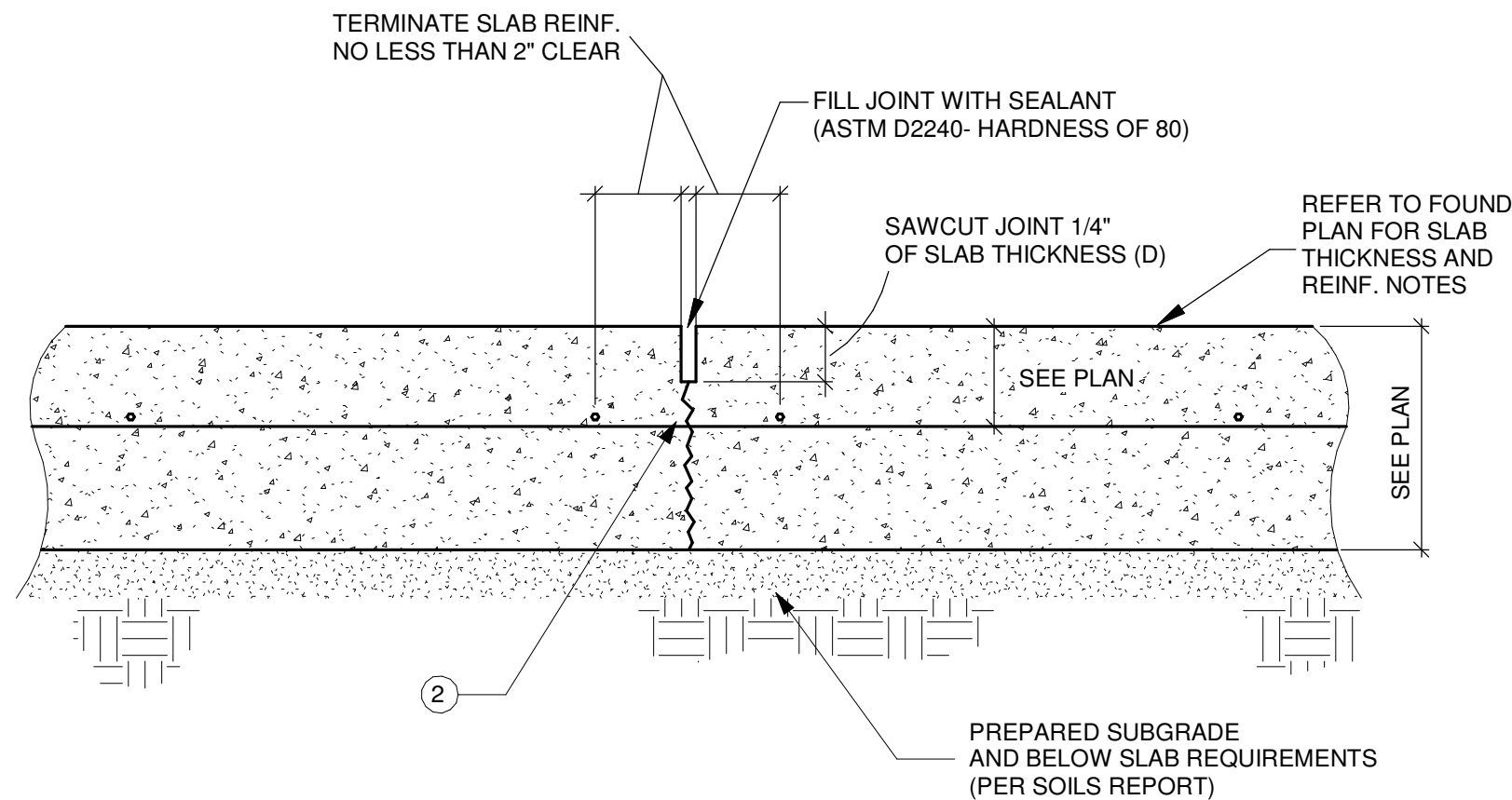
WHEN THE EDGES AND CORNERS OF A FLOOR SLAB ON GROUND DISH UPWARD IN THE ABSENCE OF ANY LOADS OTHER THAN GRAVITY, THE SLAB IS SAID TO BE CURLING. IT IS USUALLY ATTRIBUTED TO DIFFERENCES IN MOISTURE CONTENT OR TEMPERATURE FROM TOP TO BOTTOM WITHIN THE SLAB. THESE TEMPERATURE AND MOISTURE GRADIENTS DEVELOP BETWEEN THE TOP AND BOTTOM SURFACE AS THE CONCRETE IN A FLOOR SLAB HARDENS. THE SLAB WILL CURL UP IF THE TOP IS TRYING AND COOLING (SHORTENING) WHILE THE BOTTOM REMAINS MOIST AND WARM UNDER OPPOSITE CONDITIONS. THE SLAB SHOULD THEORETICALLY CURL DOWN DOWNWARD CURL AS SUCH, HOWEVER, DOES NOT OCCUR DUE TO SUBBASE RESTRAINT.

POPOUTS

A POPOUT IS A CONICAL GRADIENT THAT BREAKS OUT OF A CONCRETE SURFACE, LEAVING A HOLE. THE HOLE VARIES IN SIZE FROM 3MM (1/4 IN TO 2 IN), THOUGH LARGER POPOUTS ARE POSSIBLE. USUALLY, A FRACTURED AGGREGATE PARTICLE IS LOCATED AT THE BOTTOM OF THE HOLE. THE MATCHING PIECE OF THE FRACTURES PARTICLE ADHERES TO THE POINT OF THE POPOUT CONE. POPOUTS ARE CONSIDERED A COSMETIC DETRACTION AND GENERALLY DO NOT AFFECT THE SERVICE OF THE CONCRETE.



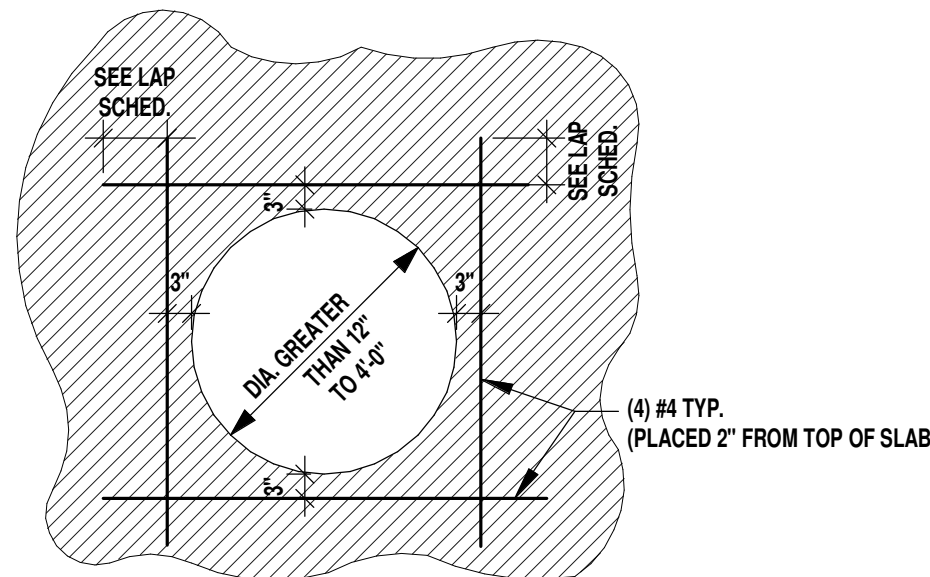
A
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NTS
TYPICAL JOINT LAYOUT PLAN



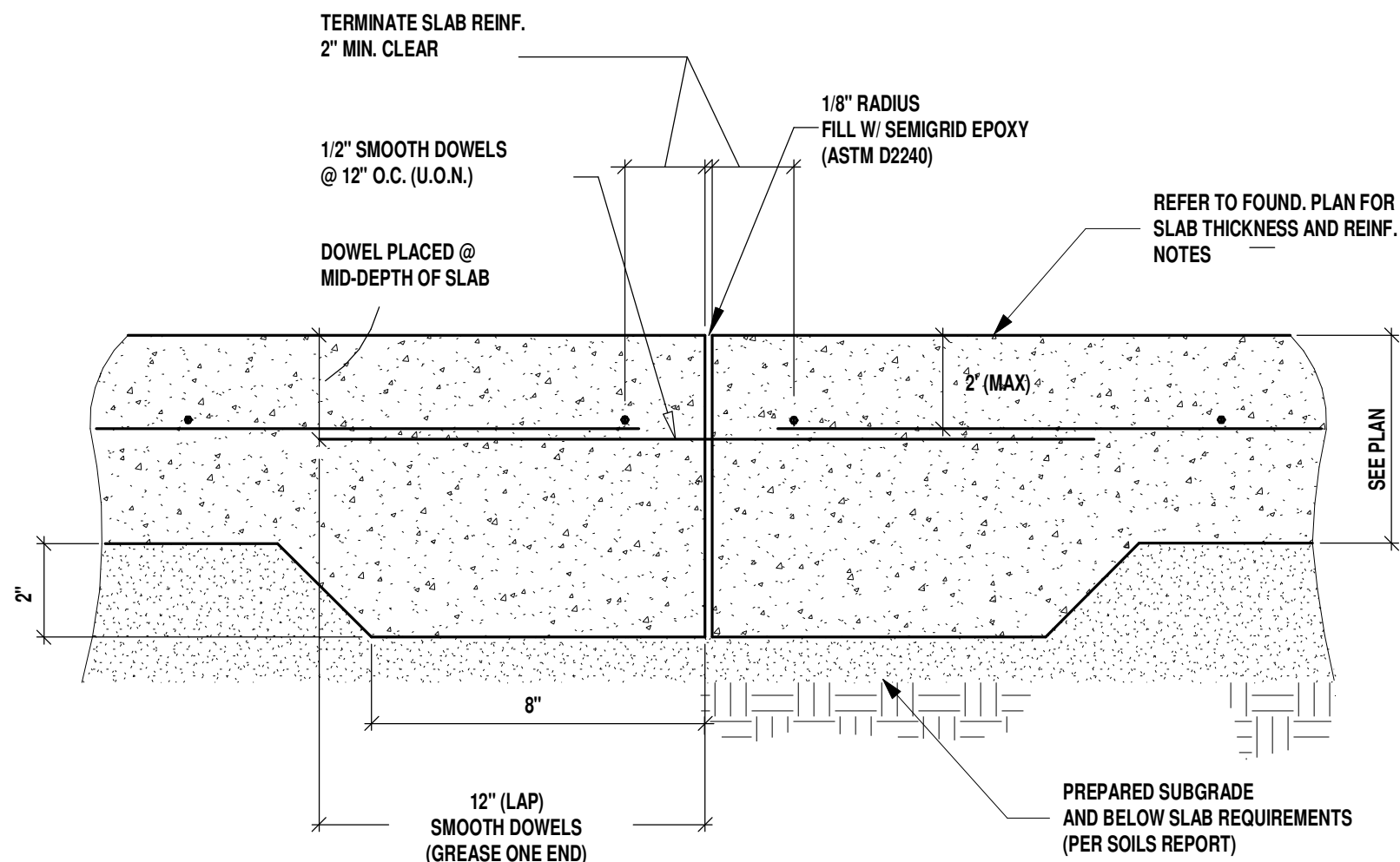
NOTES:

- SAWCUT JOINT MUST OCCUR WITHIN 7 HOURS OF CONCRETE POUR.
- CUT EVERY OTHER BAR @ JOINT LOCATIONS TO PROVIDE A WEAK PLAN FOR INDUCED CRACKING.
- SPACING OF JOINTS TO BE 12'-0\"/>
- REFER TO CONTROL JOINT PLAN OR FOUNDATION PLAN FOR JOINT LOCATIONS.
- REFER TO DEFINITIONS (THIS SHEET)

2
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NTS
CONTROL/ CONTRACTION JOINT SECTION



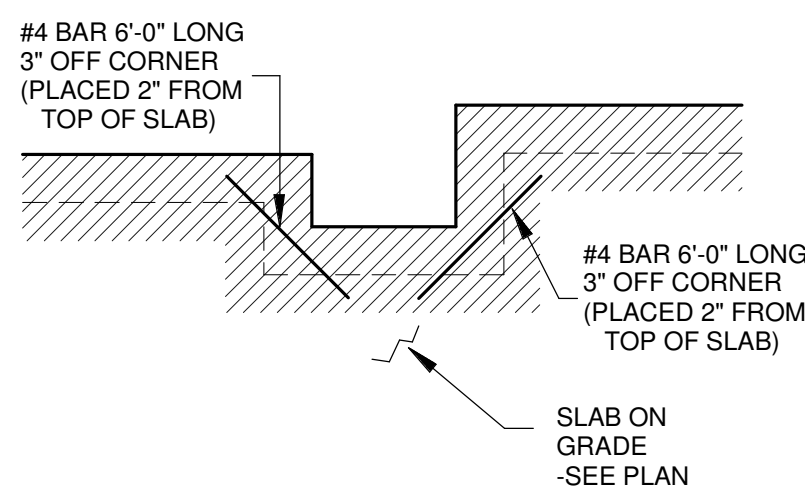
5
S03.B
NTS
TYP REINFORCING AT ROUND OPENINGS AT CONC. SLAB-ON-GRADE



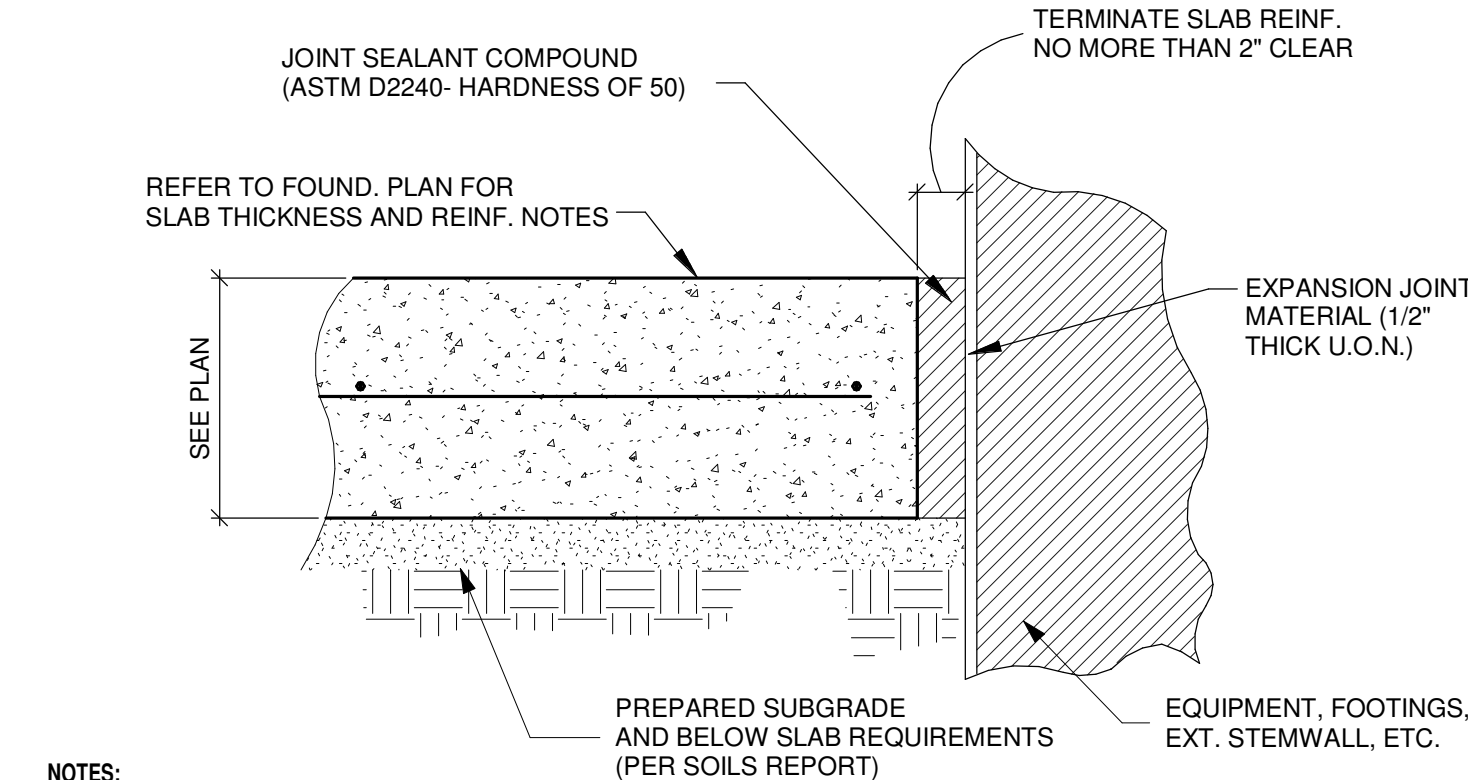
NOTES:

- CONSTRUCTION JOINTS TO MATCH CONTROL JOINT LOCATIONS. IF NOT POSSIBLE AND LOCATED IN PANEL AREA, CONTINUE ALL REINFORCING THRU JOINT.
- REFER TO DEFINITIONS (THIS SHEET)

1
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CONSTRUCTION JOINT CONNECTION (TO OCCUR @ CONTROL JOINT LOCATION)



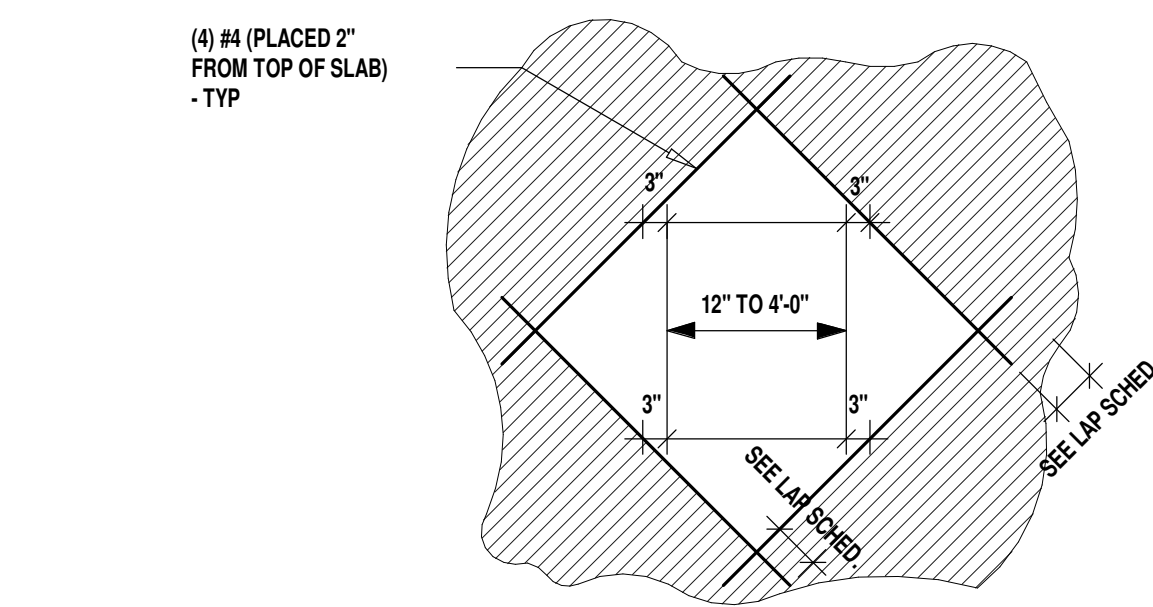
3
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NTS
TYP. REINFORCING AT RE-ENTRANT CORNERS



NOTES:

- EXPANSION JOINT MATERIAL TO BE MINIMUM 1/2\"/>
- REFER TO DEFINITIONS (THIS SHEET)

4
S03.B
NTS
ISOLATION/ EXPANSION JOINT SECTION



6
S03.B
NTS
TYP. REINFORCING @ SQUARE /RECTANGULAR OPENINGS AT CONC. SLAB-ON-GRADE

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CONCRETE SLAB-ON-GRADE REQUIREMENTS

REV #	DATE	COMMENTS
REVISION		
REVISION		
REVISION		

RGAS
Project Number 2246
Drawn By Author
Date 3/11/2024

S03.B

MASONRY - GENERAL:
MIX MATERIALS:

- SPECIAL INSPECTION SHALL NOT BE REQUIRED UNLESS SPECIFICALLY NOTED ON SPECIAL INSPECTION NOTES AND TABLES ON THIS PLAN SET.
- FOR PROPER MIXING PLACE IN ORDER: SAND, CEMENT AND WATER INTO THE MIXER. FOR EACH BATCH OF MORTAR OR GROUT AND MIX FOR A PERIOD OF AT LEAST (2) MINUTES. ADD THE LIME AND CONTINUE MIXING FOR AS LONG AS NEEDED TO SECURE A UNIFORM MASS BUT NOT IN NO CASE LESS THAN (10) MINUTES. USE MIXERS TO CREATE A UNIFORM CONSISTENCY. FRACTIONAL SACKS BATCHES WILL NOT BE PERMITTED UNLESS CEMENT IS WEIGHED FOR EACH SUCH BATCH. RETEMPER MORTAR ONLY BY ADDING WATER INTO A BATCH MADE WITH THE MORTAR AND THEN CAREFULLY WORKING THE WATER INTO THE MORTAR. RETEMPERING THE MORTAR BY DASHING WATER OVER THE MORTAR SHALL NOT BE PERMITTED. ANY MORTAR OR GROUT WHICH IS UNUSED WITHIN (1) HOUR OF THE INITIAL MIXING SHALL BE REMOVED FROM THE WORK. MORTAR SHALL BE MIXED AND MAINTAINED ON THE BOARDS TO A SLUMP OF (2-5/4") TO PLUS OR MINUS (1/4").
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE I OR TYPE II AND SHALL BE SINGLE SOURCED (SAME MANUFACTURER) FOR THE ENTIRE PROJECT.
- AGGREGATES AND SANDS FOR MORTAR SHALL CONFORM TO ASTM C144 EXCEPT THAT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE. SAND AND PEA GRAVEL FOR GROUT SHALL CONFORM TO ASTM C404, TABLE 1. COURSE AGGREGATE, EXCEPT WHEN OTHER GRADINGS ARE SPECIFICALLY APPROVED BY THE ENGINEER.
- QUICK-LIME SHALL CONFORM TO ASTM C5.
- WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACID, SALTS, ALKALI AND ORGANIC MATERIALS.

ADD MIXTURES:

- THE USE OF ADMIXTURES SHALL NOT BE PERMITTED IN MORTAR OR GROUT UNLESS SUBSTANTIATING DATA HAS BEEN SUBMITTED TO AND REVIEWED BY THE ENGINEER. THE USE OF ADMIXTURES IN MORTAR SHALL NOT BE PERMITTED WITHOUT REDUCING THE LIME CONTENT. THE USE OF UNCONTROLLED FINE CLAY, DIRT AND OTHER DELETERIOUS MATERIALS IS PROHIBITED.

MASONRY MATERIALS:

- CONCRETE MASONRY UNITS SHALL BE HOLLOW AND SUITABLE FOR BEARING WALL CONSTRUCTION. ALL BLOCKS SHALL CONFORM TO GRADE "N" UNITS AS LISTED IN ASTM C90 LATEST EDITION. IN ADDITION, UNITS SHALL HAVE A LINEAR SHRINKAGE OF .06% MAXIMUM FROM SATURATED TO THE OWEN DRY CONDITION. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN (28) DAYS PRIOR TO PLACEMENT IN THE STRUCTURE. PROVIDE ALL BOND BEAM UNITS, LINTELS, ETC., AS NOTED ON PLANS.
- ASSUMED COMPRESSIVE STRENGTH F_m SHALL BE 1500 PSI UNLESS OTHERWISE NOTED ON THESE PLANS. ULTIMATE COMPRESSIVE STRENGTH BASED ON THE AVERAGE OF (3) UNITS SHALL BE NOT LESS THAN 2000 PSI.

EXECUTION REQUIREMENTS:

- MASONRY REBAR LAP LENGTHS SHALL BE PER LAP SCHEDULE UNLESS NOTED OTHERWISE ON THESE PLANS.
- ALL VERTICAL WALL REINFORCEMENT SHALL HAVE DOWELS EQUAL IN SIZE EMBEDDED INTO FOOTING UNLESS NOTED OTHERWISE IN THESE PLANS.
- REINFORCING COVER SHALL BE (2") MINIMUM THROUGHOUT. POSITIONING DEVICES SHALL BE USED TO INSURE THE CORRECT PLACEMENT OF THE REINFORCEMENT.
- ALL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. THE VERTICAL ALIGNMENT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN (3) INCHES, EXCEPT WHERE OPEN END UNITS ARE USED.
- DO NOT USE CHIPPED OR CRACKED BLOCKS. IF ANY SUCH BLOCKS ARE DISCOVERED IN ANY FINISHING WALL, THEY SHALL BE PROMPTLY REMOVED AND REPLACED WITH NEW BLOCKS TO THE APPROVAL OF THE STRUCTURAL ENGINEER.

MASONRY - MORTAR:

PRODUCT REQUIREMENTS:

- MORTAR SHALL CONFORM TO ASTM C1329, TYPE S WITH A COMPRESSIVE STRENGTH OF 1800 (MIN SLUMP OF 9") PSI AT 28 DAYS UNLESS NOTED OTHERWISE. TYPE M WITH MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS SHALL BE USED WHERE MASONRY IS BELOW GRADE OR IN CONTACT WITH EARTH. THE MIX SHALL BE REVIEWED BY THE ENGINEER WHEN SPECIAL INSPECTION IS REQUIRED.

EXECUTION REQUIREMENTS:

- PLACE MORTAR IN HORIZONTAL JOINTS, COMPLETELY COVER THE FACE SHELLS OF THE UNITS WITH MORTAR. SOLID FILL ALL HEAD JOINTS. LAY ALL MASONRY WITH COMMON OR RUNNING BOND. HOLD RAKING TO A MINIMUM.
- REMOVE CONCRETE SCUM AND GROUT STAINS ON THE WALL IMMEDIATELY. AFTER THE WALL IS CONSTRUCTED, DO NOT SATURATE WITH WATER FOR CURING OR ANY OTHER PURPOSE. CHECK ALL JOINTS FOR TIGHTNESS AND, WHERE CRACKS ARE VISIBLE, CHIP OUT THE MORTAR, TUCK POINT AND TOOL TO MATCH ADJACENT JOINTING.

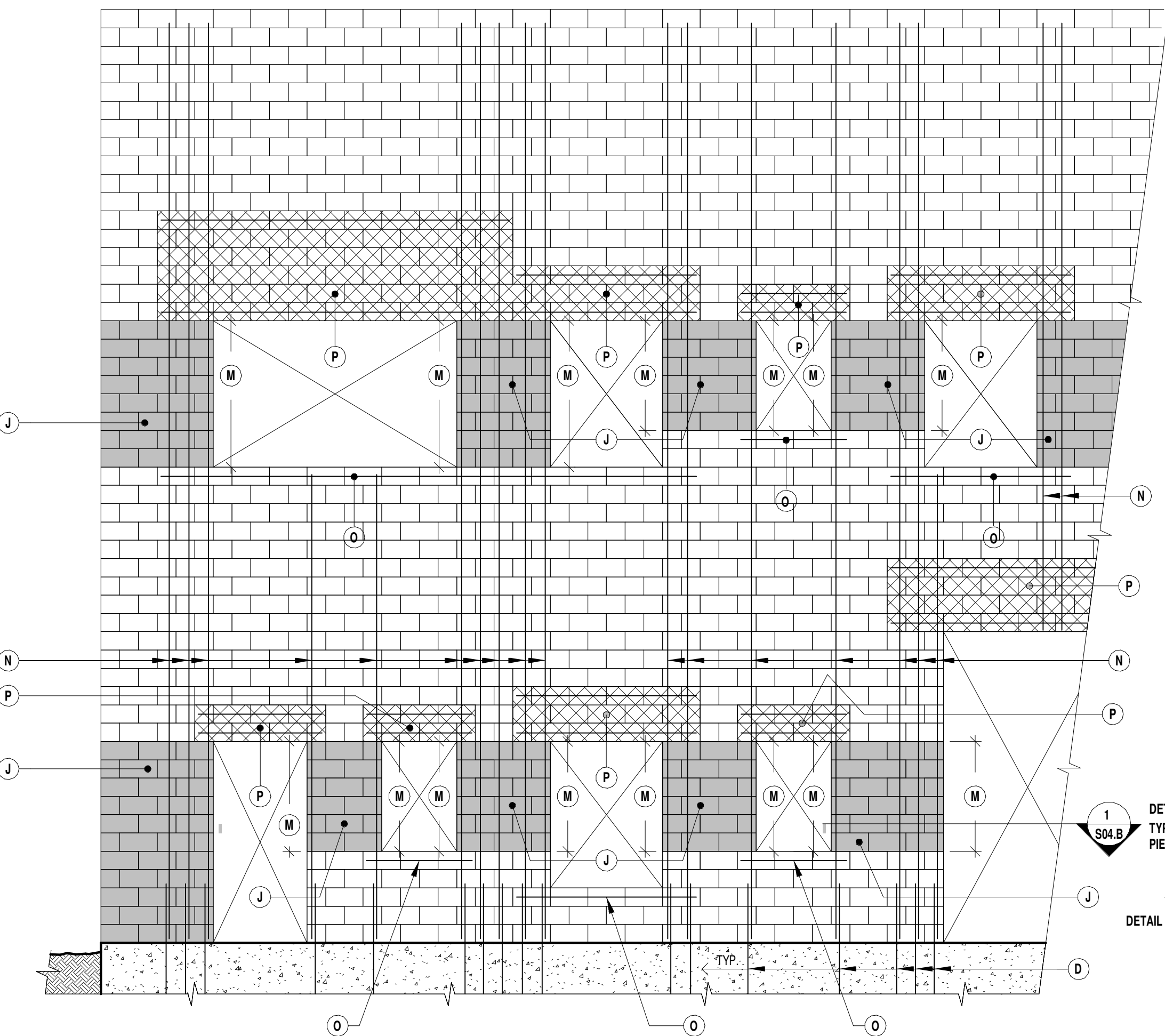
MASONRY - GROUT:

PRODUCT REQUIREMENTS:

- GROUT FILL FOR CELLS SHALL CONSIST OF ONE PART PORTLAND CEMENT TO NOT MORE THAN (3) PARTS SAND, TO (2) PARTS PEA GRAVEL. (3/8") MAX. SIZE COURSE AGGREGATE. GROUT FILL USING COURSER AGGREGATE MAY BE USED IF THE MIX IS PROPERLY DESIGNED AND APPROVED BY THE ENGINEER. THE MAXIMUM SIZE OF AGGREGATE USED SHALL NOT EXCEED (1/3) THE LEAST LATERAL DIMENSION OF THE CELL TO BE FILLED. GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT (28) DAYS.

EXECUTION REQUIREMENTS:

- GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT, ANCHOR BOLTS OR EMBEDDED ITEMS. PROVIDE (2") MINIMUM COVER TO EMBEDDED ITEMS.
- MAXIMUM HEIGHT OF ANY GROUT POUR SHALL NOT BE GREATER THAN (4') UNLESS PROPER HIGH-LIFT METHODS ARE USED.
- MASONRY UNITS SHALL BE SOLID GROUTED FOR THE REQUIRED DEPTH. HORIZONTAL REINFORCING SHALL EXTEND BEYOND THE OPENING ON EACH SIDE PER TABLE CMU-1 OF CMU-2.
- BOND BEAM HORIZONTAL REINFORCEMENT SHALL BE SOLIDLY ENCASED IN GROUT. WIRE MESH SHALL BE USED IN EACH CELL BELOW EACH BOND BEAM TO PREVENT THE FLOW OF GROUT INTO UNGROUTED CELLS.
- WHEN GROUTING IS STOPPED FOR A PERIOD OF (1) HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR (1-1/2") MINIMUM BELOW THE UPPER MOST UNIT.



NOTES:

- A. CONT. BOND BEAM @ TOP OF WALL, PARAPET AND BEARING LOCATIONS W/ (2) HORIZ. REINF. (U.O.N.) - SEE PLAN DETAILS FOR SIZE AND QUANTITY.
B. JOINT REINF. (LAGGERS) (U.O.N.) - SEE PLAN DETAILS, REFER TO DETAIL (C) 1/504.B
C. VERT. REINF. - SEE PLAN DETAILS FOR SIZE AND SPACING.
D. PROVIDE DOWEL BARS IN FOUNDATION TO MATCH ALL VERTICAL WALL REINFORCING (U.O.N.); LAP VERTICAL REINFORCING WITH WALL DOWELS AND ALL OTHER VERTICAL BARS PER TABLE M-1, (U.O.N.)

- E. FOUNDATION-SEE PLAN.
F. ELECTRICAL DEVICE (JUNCTION BOX, OUTLET, ETC.)
G. DO NOT PLACE VERT. CONDUIT IN SAME CELL AS VERTICAL REINFORCING; WHERE UNAVOIDABLE, NOTIFY ENGINEER.
H. STAGGER SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME COURSE BY 24"; REFER TO DETAIL (A) 1/504.B
I. WALL INTERSECTIONS AND CORNERS, SEE DETAIL (E) 1/504.B
J. MASONRY PIER, REFER TO DETAIL (D) 1/504.B
K. NOT USED.
L. NOT USED.

- M. AT ADJACENT OPENINGS, THE PIER HEIGHT SHALL BE THE LESSER HEIGHT OF THE ADJACENT OPENING.
N. "C" VERTICAL BARS, REFER TO 4/504.A (MAY REQUIRE 1, 2 OR 3 VERTICALS).
O. "B" HORIZONTAL BAR, REFER TO ON DETAIL 3/504.A
P. MASONRY LINTEL, REFER TO 3/504.A

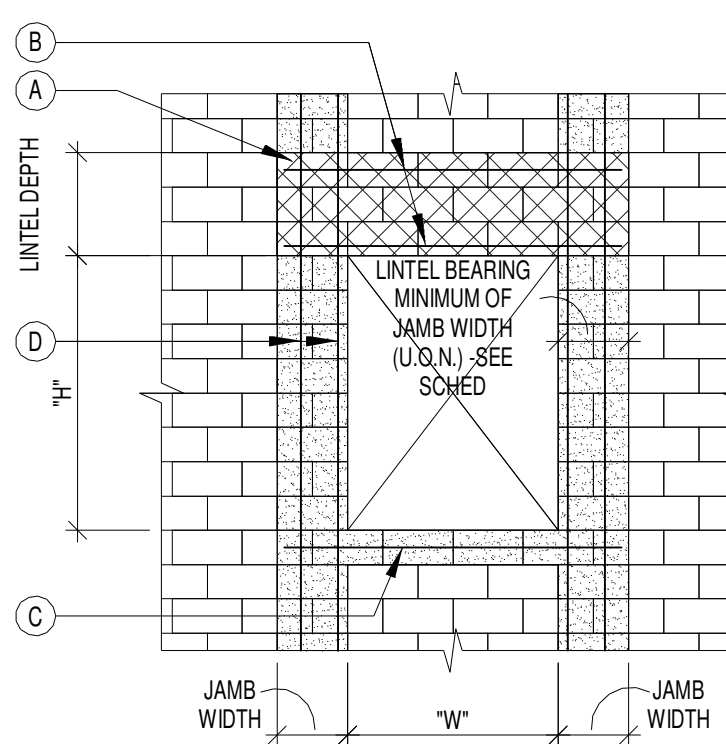
REQUIRED MASONRY WALL REINFORCEMENT AT
OPENINGS, CONTROL JOINTS AND CORNERS

1
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TABLE CMU-1 : 8" OR 10" WALL

CMU OPENING REINFORCING SCHEDULE					
W	LINTEL DEPTH	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH
< 2'-8"	8"	(1) #5	(1)	(1)	8"
2'-8" < 4'-0"	16"	(2) #5	(1)	(1)	8"
4'-0" < 6'-0"	24"	(2) #6	(1)	(2)	16"
6'-0" < 8'-0"	32"	(2) #6	(2)	(3)	24"
8'-0" < 10'-0"	48"	(2) #6	(2)	(3)	24"
10'-0" < 13'-4"	48"	(2) #6	(2)	(3)	24"
13'-4" < 24'-0"	48"	(2) #7	(2)	(3)	24"

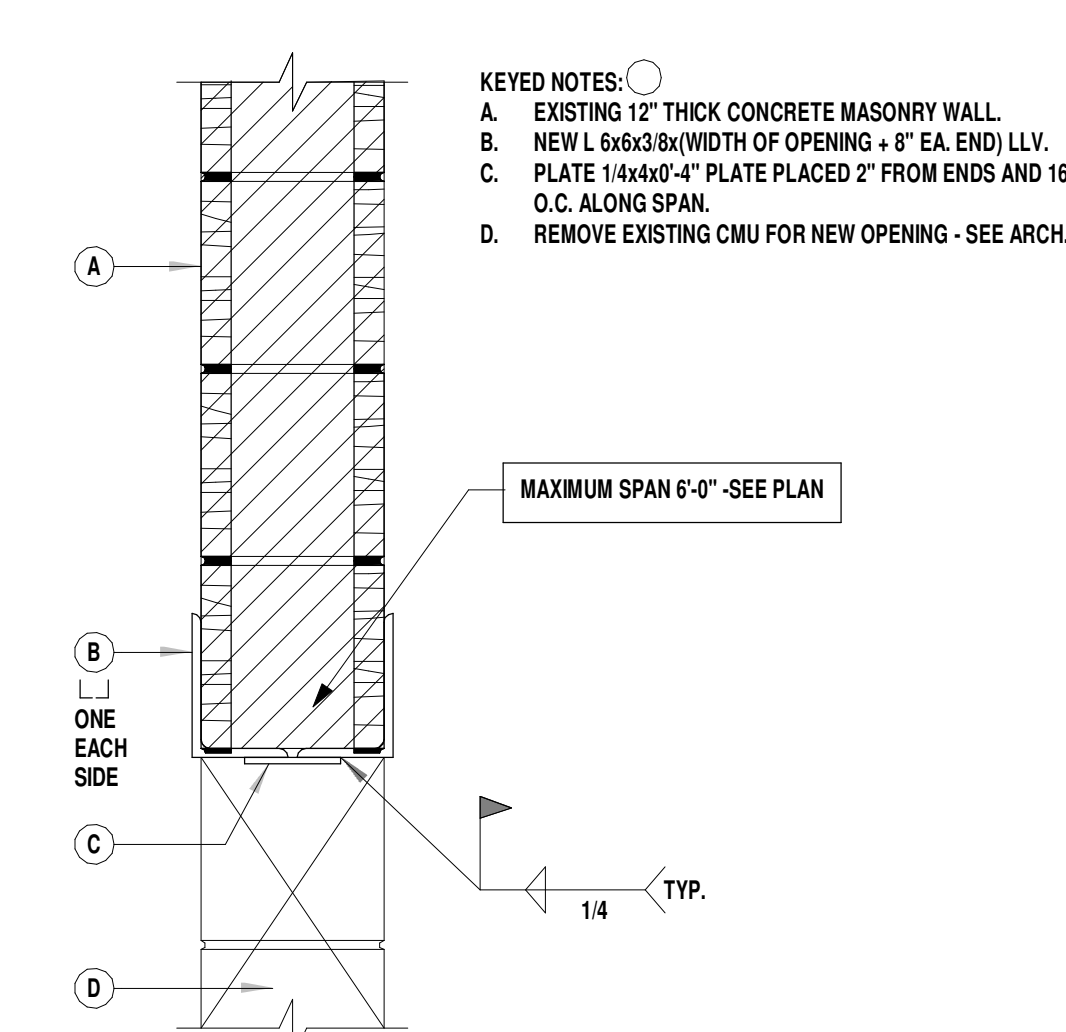
*SPECIAL LINTEL - SEE PLAN



GENERAL NOTES:

- USE BAR QUANTITIES AND SIZES GIVEN IN TABLE CMU-1 OR CMU-2 UNLESS OTHERWISE NOTED ON PLANS.
- EXTEND "C" BARS FROM TABLE 1 OR CMU-2 48 BAR DIAMETERS OR 24" MINIMUM BEYOND TOP AND BOTTOM OF OPENING EXCEPT WHEN "H" OR "W" EXCEEDS 24". "C" BARS SHALL EXTEND FULL HEIGHT, WHERE THERE IS LESS THAN 8" BETWEEN ADJACENT OPENINGS, EXTEND FULL HEIGHT REINFORCING 32" BEYOND FURTHERST OPENING.
- "B" BARS IN TABLE CMU-1 OR CMU-2 SHALL EXTEND 48 BAR DIAMETERS OR 24" MINIMUM EACH SIDE OF THE OPENINGS.
- FOR BAR SIZES, MATCH TYPICAL WALL REINFORCING AS SHOWN ON THE BUILDING WALL SECTIONS, U.O.N.

MASONRY LINTEL SECTION



TYPICAL AT EXISTING MASONRY
DETAIL FOR NEW OPENING IN EXISTING
MASONRY WALL

4
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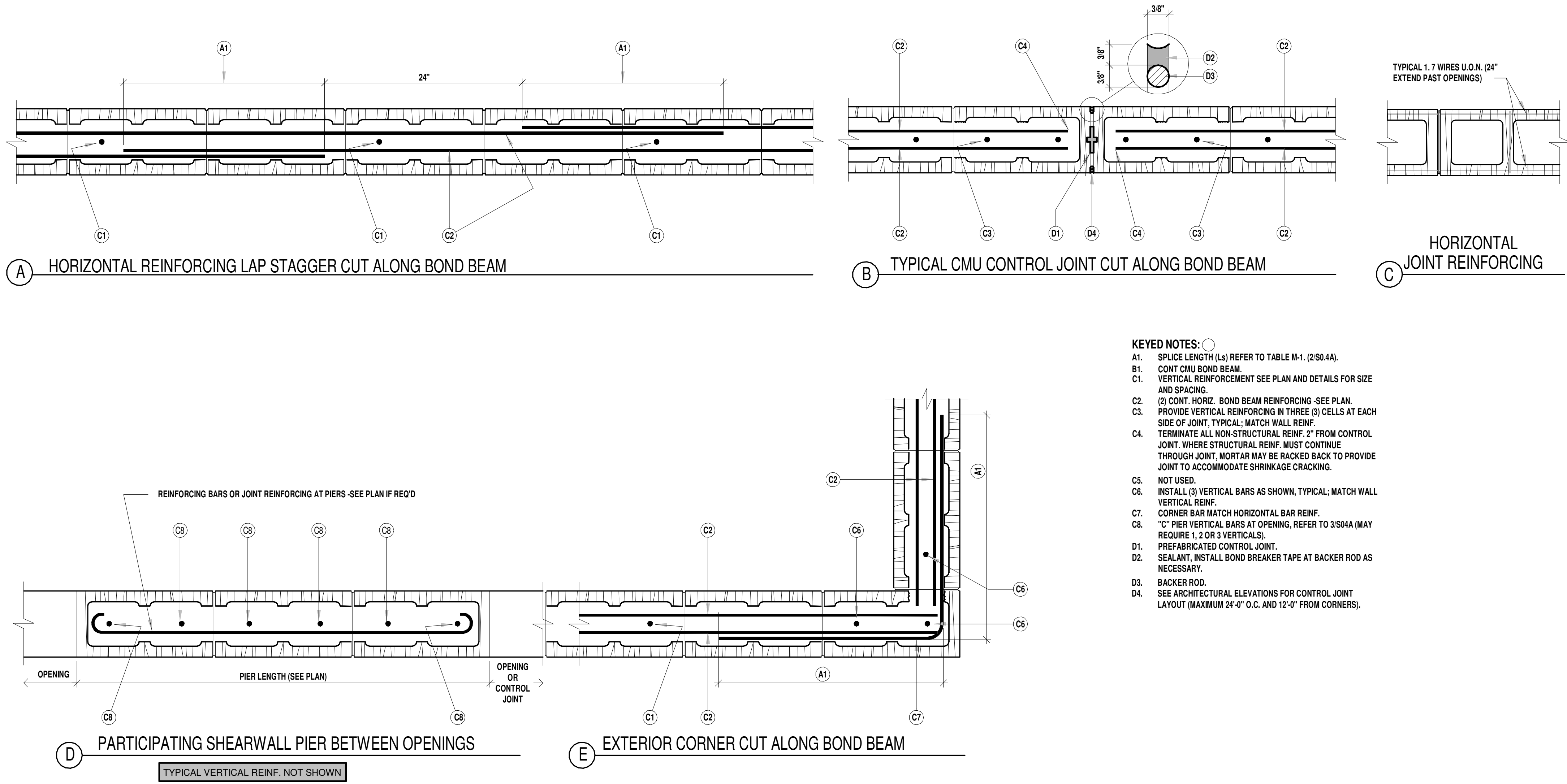
REINF LAP SPlice LENGTHS
(SAME FOR DEVELOPMENT LENGTH)

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CMU OPENING REINFORCING

3
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NTS
TYP GENERAL MASONRY WALL DETAILS FOR
VARYING CONDITIONS

1 2 3 4 5 6 7 8 9 10 11 12 13

MASONRY DETAILS AND VENEER REQUIREMENTS

REVIEWS	
INITIALS	

RGAS
Project Number 2246
Drawn By Author
Date 3/11/2024

S04.B

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ROUGH CARPENTRY:

PRODUCT REQUIREMENTS:

- EACH PIECE OF STRUCTURAL LUMBER, SHEATHING AND TIMBER SHALL BE MARKED WITH GRADE BY SUCH COMPETENT AND RELIABLE ORGANIZATION WHOSE REGULAR BUSINESS IS TO ESTABLISH LUMBER GRADES.
- ALL LUMBER, EXCEPT WHERE SPECIFICALLY NOTES OTHERWISE, SHALL BE MILL SIZED AND SURFACED ON (4) SIDES. ALL SHALL BE STRAIGHT STOCK, FREE FROM WARP OR CUP, AND SINGLE LENGTH PIECES. SPLICES WILL NOT BE PERMITTED EXCEPT WHERE SPECIFICALLY SO DETAIL OR AS DIRECTED BY THE ENGINEER.
- ROUGH HARDWARE, JOIST HANGERS, STRAPS, HOLD-DOWNS, ETC. SHALL BE MANUFACTURED BY "SIMPSON" COMPANY OR APPROVED EQUAL. THE MAXIMUM SIZE AND NUMBER OF FASTENERS SPECIFIED BY THE MANUFACTURER SHALL BE USED UNLESS NOTED OTHERWISE.
- BLOCKING AND FIRESTOPPING TO BE INSTALLED AS REQUIRED TO SUPPORT ALL ITEMS OF FINISH SUCH AS BULKHEADS AND BUCKS. PROVIDE FIREBLOCKING TO CUT OFF ALL CONCEALED DRAFT OPENINGS, BOTH VERTICAL AND HORIZONTAL, BETWEEN CEILING AND FLOOR AREAS AS REQUIRED BY BUILDING OFFICIAL AND ARCHITECT.
- COMMON NAILS SHOULD BE USED WHEN NAILING IS SPECIFIED ON THESE PLANS (U.O.N.). SUCH AS AT SHEARWALLS AND DIAPHRAGMS. ALL OTHER NAILING MAY BE OF THE "BOX OR SINKER" TYPE.
- SHEATHING GRADE SHALL BE CD-X WITH EXTERIOR GLUE P.S. 1-93, U.O.N. ON PLANS; PRODUCTS SHALL BE THOSE LISTED IN TABLE WS-1 (THIS SHEET).

- UNLESS OTHERWISE NOTED ON PLANS, LUMBER SHALL BE AT LEAST OF THE GRADES SHOWN IN THE TABLE BELOW. ALL LUMBER SHALL BE SURFACED AND FREE OF HEART CENTER. LUMBER SHALL MEET SPECIES AND COMMERCIAL GRADE AS INDICATED ON THE PLANS AND THE DESIGN VALUES FOR VISUALLY GRADED LUMBER IN ACCORDANCE WITH THE PLANS AND THE DESIGN VALUES FOR VISUALLY GRADED LUMBER IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION, WHICHEVER IS GREATER. BASED VALUES SHOWN MAY BE ADJUSTED IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION. "DF" INDICATES DOUGLAS-FIR-LARCH, "HM" INDICATES HEM-FIR, "SP" INDICATES SPRUCE-PINE-FIR.

EXECUTION REQUIREMENTS:

- BOLTS (IF APPLICABLE) SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NUTS SHALL BE PULLED TIGHT AND AGAIN CHECKED AND TIGHTENED JUST PRIOR TO ENCLOSING BOLTED MEMBERS. COUNTER BORE FOR BOLTED HEADS OR NUTS ONLY WHERE SO INDICATED ON THE DRAWINGS AND THEN SUFFICIENT DEPTH TO HOUSE THE BOLT HEAD OR NOT AND WASHER. CUT OFF EXCESSIVE BOLT PROJECTION WHERE NECESSARY. NICK THREADS TO PREVENT LOOSENING.
- LAG SCREWS (IF APPLICABLE) SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. LAG SCREWS FASTENING ONE WOOD MEMBER TO ANOTHER SHALL HAVE PENETRATION INTO FAR MEMBER OF NOT LESS THAN (2/3) OF THE LENGTH OF THE LAG SCREW MEASURED UNDER THE HEAD U.O.N. IN PLACING LAG SCREWS IN WOOD, A HOLE SHALL FIRST BE BORED OF THE SAME DIAMETER AND DEPTH OF THE SHANK OF THE SCREW. AFTER WHICH THE HOLE SHALL BE CONTINUED TO A DEPTH EQUAL TO THE LENGTH OF THE LAG SCREW WITH THE DIAMETER EQUAL TO THE DIAMETER OF THE SCREW AT THE ROOT OF THE THREAD.
- ALL ROUGH CARPENTRY WILL PRODUCE JOINTS TRUE AND TIGHT AND WELL NAILED WITH MEMBERS ASSEMBLED IN ACCORDANCE WITH THE DRAWINGS AND ALL PERTINENT BUILDING CODES. THE SHIMMING OF SKIDS, JOIST SHORT STUDS, TRIMMERS, HEADERS OR OTHER FRAMING MEMBERS SHALL NOT BE PERMITTED. ALL WALLS AND PARTITIONS SHALL BE STRAIGHT, PLUMB AND ACCURATELY LOCATED. CAREFULLY SELECT ALL STRUCTURAL MEMBERS. INDIVIDUAL PIECES SHALL BE SELECTED SO THAT KNOTS AND OBVIOUS MINOR DEFECTS WILL NOT INTERFERE WITH THE PLACING OF BOLTS, OR PROPER NAILING OR THE MAKING OS SOUND CONNECTIONS. LUMBER MAY BE REJECTED BY THE ENGINEER FOR EXCESSIVE WARP, TWIST, BOW OR CROOK, MILDEW, FUNGUS OR MOLD AS WELL AS FOR IMPROPER GRADE MARKING. DEFECTS WHICH WILL RENDER A PIECE UNABLE TO SERVE ITS INTENDED FUNCTION SHALL BE DISCARDED.

PRE-ENGINEERED TRUSSES

PRODUCT REQUIREMENTS:

- "GANG-NAI" PRE-ENGINEERED TRUSSES ARE TO BE CONSTRUCTED WITH METAL PLATE CONNECTORS AND DESIGNED AND MANUFACTURED BY OTHERS. DESIGN, CONSTRUCTION, AND INSTALLATION SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND OF THE TRUSS PLATE INSTITUTE. PROVIDE ALL REQUIRED BLOCKING AND BRACING REQUIRED BY THE MANUFACTURER FOR CONSTRUCTION AND ERECTION IN ADDITION TO BLOCKING SHOWN ON THE STRUCTURAL DETAILS. MEMBERS OF A COMPLETED TRUSS ARE NEVER TO BE NOTCHED OF CUT. THE TRUSS MANUFACTURER SHALL PROVIDE DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER (CONTRACTED BY TRUSS MANUFACTURER) FOR REVIEW PRIOR TO FABRICATION. THE DESIGN SHALL ACCOUNT FOR ALL UNIFORM LOADS AND EQUIPMENT LOADS. CONTACT THE STRUCTURAL ENGINEER FOR UNIFORM LOADING AN REQUIREMENTS IF REQUIRED.

EXECUTION REQUIREMENTS:

- TRUSS SHOP DRAWINGS SHALL SHOW THE TRUSS DESIGN LOADS, SIZES AND GRADES OF THE CHORDS AND WEBS, LOCATIONS OF THE JOINTS AND CONNECTIONS, SIZE AND TYPE OF METAL PLATES AND ALL BRACING AND BLOCKING REQUIREMENTS.
- ROOF AND FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING CRITERIA:
 - SEE DESIGN LOADS SHEET 501.4 FOR VERTICAL LOADS
 - STRESS INCREASE FOR DURATION OF LOAD - ROOF (15%)
- LOCATION OF TRUSS BRACING REQUIRED BY THE PLANS OR TRUSS MANUFACTURER'S DESIGN SHALL BE INDICATED ON EACH TRUSS BY PAINT MARKING.

PARALLAM MEMBERS:

- WHERE PARALLAM "PSL" MEMBERS ARE INDICATED ON THE PLANS AND SCHEDULES THEY SHALL BE MANUFACTURED BY TRUSS-JOIST MACMILLAN (NEW-482 & ICBO ER-4978), OR BE AN APPROVED EQUAL PRODUCT. MEMBERS SHOWN ON THE PLANS AND SCHEDULES ARE DETERMINED FROM MANUFACTURER SUPPLIED INFORMATION AND SHOULD BE REVIEWED FOR COMPLIANCE BY THE MANUFACTURER'S CIVIL OR STRUCTURAL ENGINEER. LOADING INFORMATION MAY BE PROVIDED UPON REQUEST. NOTCHES, HOLES OR CUTS SHOWN IN THE TYPICAL DETAILS ARE ALLOWED WITHOUT ADDITION APPROVAL. ALL OTHER MEMBER MODIFICATIONS ARE TO BE APPROVED BY THE STRUCTURAL ENGINEER.

PLYWOOD WEB JOISTS:

- PLYWOOD WEB JOISTS NOTED "TJ" ARE TO BE MANUFACTURED BY TRUSS-JOIST MACMILLAN (NEW-200 & ICBO ER-4354) OR APPROVED EQUAL. PROVIDE BLOCKING, WEB STIFFENERS, AND BRACING OVER THE SPAN BETWEEN THESE STRUCTURAL DRAWINGS AND ALL MANUFACTURER'S RECOMMENDATIONS. TOP AND BOTTOM FLANGES OF JOISTS ARE NEVER TO BE CUT AND ALL HOLES THROUGH THE JOIST WEB ARE TO BE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER.

TABLE WS-1 :
SHEATHING PRODUCTS:

DESCRIPTION	REQUIREMENTS
ROOF SHEATHING	5/8" APA RATED T&G ROOF PLYWOOD SHEATHING. NAIL W/ 10d @ 6" O.C. BOUNDARY EDGES AND 12" O.C. FIELD. (U.O.N. ON SHEARWALL SCHEDULE) SPAN INDEX = 48/24
FLOOR SHEATHING	3/4" APA RATED FLOOR PLYWOOD SHEATHING. NAIL W/ 10d @ 6" O.C. BOUNDARY EDGES AND 12" O.C. FIELD. (U.O.N. ON SHEARWALL SCHEDULE) SPAN INDEX = 48/24
WALL SHEATHING	1/2" APA RATED WALL PLYWOOD SHEATHING. NAIL W/ 10d @ 4" O.C. BOUNDARY EDGES AND 12" O.C. FIELD. (U.O.N. ON SHEARWALL SCHEDULE) 7/16" WATERBOARD AND ORIENTED STRAND BOARD CONFORMING TO NER-109 AND PRODUCT STANDARD 2-82, AND WITH THE SAME EXPOSURE DURABILITY CLASSIFICATION, NOMINAL THICKNESS AND SPAN/INDEX RATIO MAY BE SUBSTITUTED FOR PLYWOOD ONLY IF APPROVED BY THE STRUCTURAL ENGINEER.
NOTES:	1. THE NAIL EDGE DISTANCE FOR 3" NOMINAL (2-1/2" ACTUAL) WIDE MEMBERS ON WHICH SHEETS ARE SPLICED SHALL BE 3-1/4" MIN. 2. THE NAIL EDGE DISTANCE FOR 2" NOMINAL (1-1/2" ACTUAL) WIDE MEMBERS ON WHICH SHEETS ARE SPLICED SHALL BE 3/8" MIN. CARE SHALL BE MADE NOT TO TO SPLIT THE MEMBERS. 3. NAILS MAY BE SLANT DRIVEN TO MAINTAIN MINIMUM EDGE DISTANCE.

TABLE WL-1 :
MINIMUM LUMBER GRADES (PER NDS 2001 ED.)

TYPE	PRIMARY USE	SIZES (IN)	MILL GRADE	BASE VALUES (PSI)					
				Fb	Fv	Ea	Fc	Ft	Fc
SAWN LUMBER	STUDS	2x	DF #2	700	180	1.4	850	625	
	JOISTS	2" x WIDER	DF #2	900	180	1.6	1350	625	
	BEAMS	5" x 5" & LARGER	DF #2	875	170	1.3	600	625	
	POSTS	5" x 5" & LARGER	DF #2	750	170	1.3	700	625	
MICRO-LAMS	BEAMS	ANY	LAM	2400	275	1.8	2400	500	
	PSL	BEAMS	ANY	LAM	2900	285	2.0	2900	750
FOOTNOTES: (a) 10X10"6 (PSI)									

TABLE WFS-1 :
FASTENING SCHEDULE

CONNECTION	FASTENING #/ft	LOCATION
1. JOIST TO SILL GIRDER	(2) 8d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	(2) 8d COMMON (2) 3" x 0.131" NAILS (2) 3" 14 GAGE STAPLES	TOENAIL EACH END
3. 1"X6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d COMMON	FACE NAIL
4. WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST	(3) 8d COMMON	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d COMMON	BLIND & FACE NAIL
6A. SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C. 3" x 0.131" NAILS @ 8" O.C. 3" 14 GAGE STAPLES @ 12" O.C.	TYPICAL FACE NAIL
6B. SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	(3) 16d @ 16" (4) 3" x 0.131" NAILS @ 16" (4) 3" 14 GAGE STAPLES PER 16"	BRACED WALL PANELS
7. TOP PLATE TO STUD	(2) 16d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL
8. STUD TO SOLE PLATE	(4) 8d COMMON (4) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
9. DOUBLE STUDS	(2) 16d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL
10. DOUBLE TOP PLATE	16d @ 24" O.C. 3" x 0.131" NAILS @ 8" O.C. 3" 14 GAGE STAPLES @ 8" O.C.	FACE NAIL
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(8) 16d COMMON (12) 3" x 0.131" NAILS (12) 3" 14 GAGE STAPLES	LAP SPLICE
12. RIM JOIST TO TOP PLATE	(3) 8d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
13. TOP PLATES, LAPS AND INTERSECTIONS	(2) 16d COMMON (3) 3" x 0.131" NAILS @ 6" O.C. 3" 14 GAGE STAPLES @ 6" O.C.	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	(3) 8d COMMON	16" O.C. ALONG EDGE
15. CEILING JOISTS TO PLATE	(3) 8d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
16. CONTINUOUS HEADER TO STUD	(4) 8d COMMON	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 16d COMMON, MINIMUM (4) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 16d COMMON, MINIMUM (4) 3" x 0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	(3) 8d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) 8d COMMON (2) 3" x 0.131" NAILS (2) 3" 14 GAGE STAPLES	FACE NAIL
21. 1"X8" SHEATHING TO EACH BEARING WALL	(2) 8d COMMON	FACE NAIL
22. WIDER THAN 1"X8" SHEATHING TO EACH BEARING	(3) 8d COMMON	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON 3" x 0.131" NAILS 3" 14 GAGE STAPLES	24" O.C. 16" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON @ 32" O.C. 3" x 0.131" NAILS @ 24" O.C. 3" 14 GAGE STAPLES @ 24" O.C.	FACE NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES
25. 2" PLANKS	(2) 20d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL AT ENDS AT EACH SPLICE
26. COLLAR TIE TO RAFTER	(3) 16d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	AT EACH BEARING
27. JACK RAFTER TO HIP	(3) 16d COMMON (4) 3" x 0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	(2) 16d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
29. JOIST TO BAND JOIST	(2) 16d COMMON (3) 3" x 0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL
30. LEDGER STRIP	(3) 16d COMMON (4) 3" x 0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL

FASTENING SCHEDULE (CONTINUED)

CONNECTION	FASTENING #/ft	LOCATION
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD IN SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING):	1/2" AND LESS 6d x 1 3-3/8" x 0.131" NAIL n 1-3/4" 16 GAGE o 8d d OR 6d e 3-3/8" x 0.131" NAIL P 2" 16 GAGE P 8d c	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1-1/8" TO 1-1/4" 3/4" AND LESS 3-3/8" x 0.131" NAIL n 7/8" TO 1" 8d e 1-1/8" TO 1-1/4" 10d d OR 8d e	
32. PANEL SIDING (TO FRAMING)	1/2" AND LESS 6d f 5/8"	
33. FIBERBOARD SHEATHING-g	1/2" 25/32"	11 GAGE ROOFING NAIL h 6d COMMON NAIL 16 GAGE STAPLE i 11 GAGE ROOFING NAIL h 8d COMMON NAIL 16 GAGE STAPLE i
34. INTERIOR PANELING	1 1/4" 3/8"	4d j 6d k
FOOTNOTES:	(a) COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED. (b) NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 40 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEARWALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING. (c) COMMON OR DEFORMED SHANK. (d) COMMON. (e) DEFORMED SHANK. (f) CORROSION-RESISTANT SIDING OR CASING NAIL. (g) FASTENERS SPACES 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES O.C. AT INTERMEDIATE SUPPORTS. (h) CORROSION-RESISTANT ROOFING NAILS WITH 7/16-INCH DIAMETER HEAD AND 1 1/2-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 3/4-INCH LENGTH FOR 25/32-INCH SHEATHING.. (i) CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS. (j) PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED AT 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS. (k) FOR ROOF SHEATHING APPLICATIONS, 8d NAILS ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS. (l) STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH. (m) FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS. (n) FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING. (o) FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.	

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CARPENTRY GENERAL NOTES

REVIEWS		
INITIALS	DATE	COMMENTS

RGAS
Project Number 2246
Drawn By JJR
Date 3/11/2024

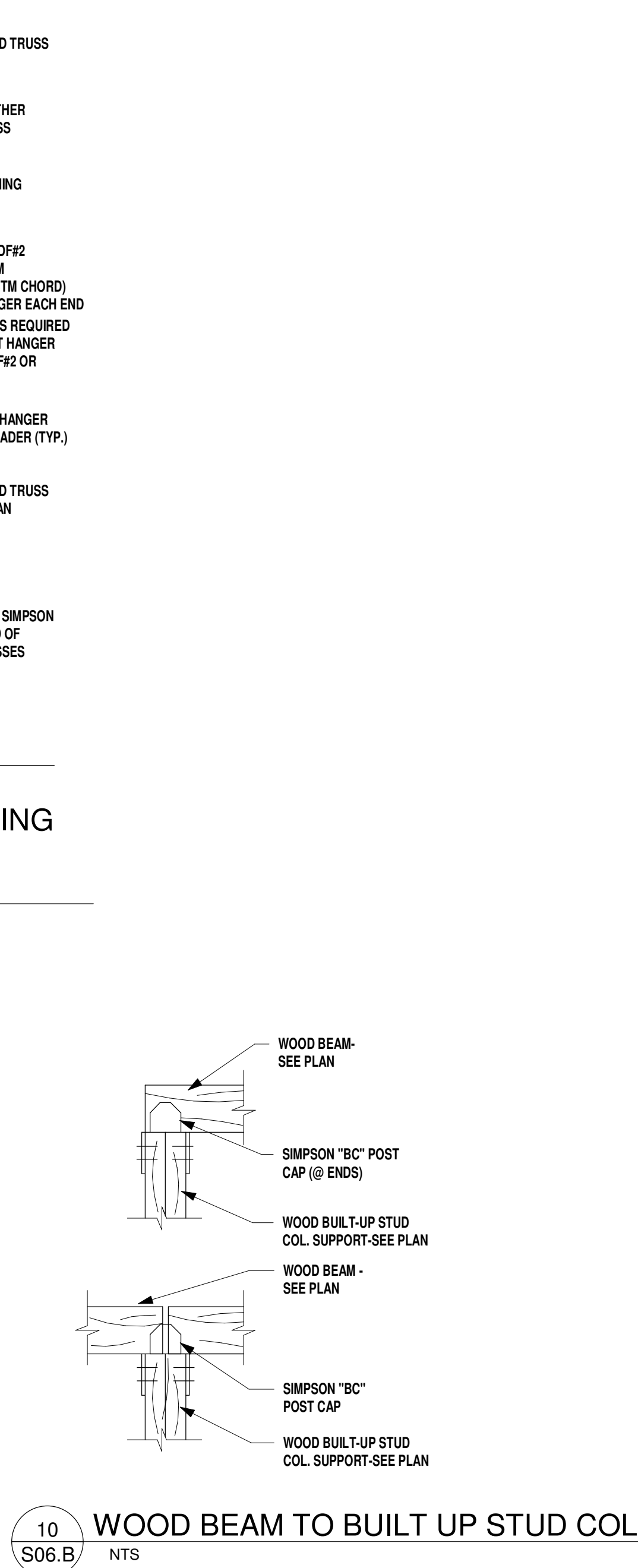
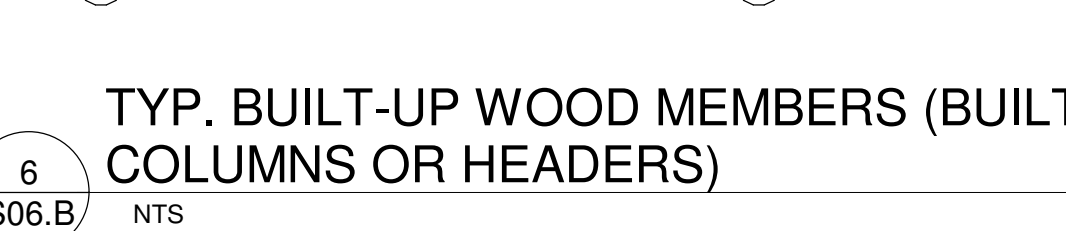
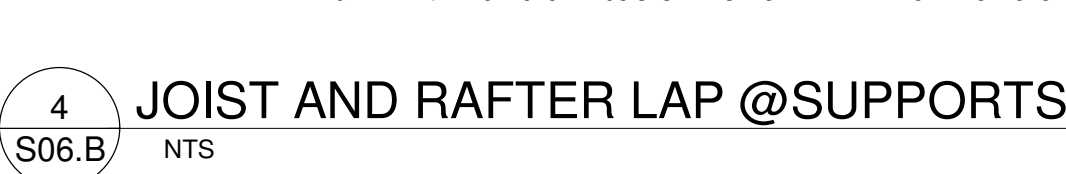
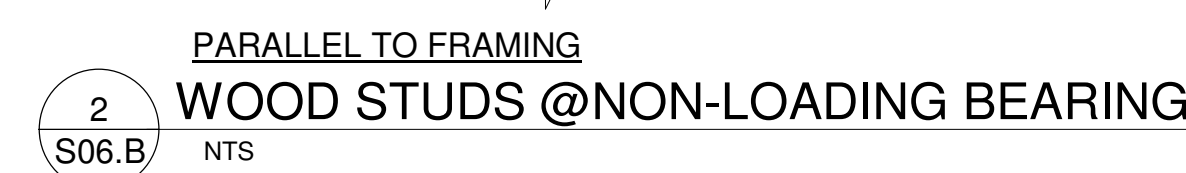
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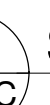


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The undersigned professional engineer certifies that he is a duly licensed professional engineer in the State of New York, and that he is the author of the design and calculations shown on these drawings. He certifies that he is a duly licensed professional engineer in the State of New York, and that he is the author of the design and calculations shown on these drawings. He certifies that he is a duly licensed professional engineer in the State of New York, and that he is the author of the design and calculations shown on these drawings. He certifies that he is a duly licensed professional engineer in the State of New York, and that he is the author of the design and calculations shown on these drawings.





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