

SEAL:

# ASSOCIATED PLASTIC SURGEONS

I-470 BUSINESS & TECHNOLOGY CENTER NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI

FOOTING & FOUNDATION PERMIT SUBMITTAL: NOVEMBER 1, 2024

ARCHITECT

DEV INC

8807 MONROVIA STREET
LENEXA, KANSAS 66215
PH: 913-322-8882

STRUCTURAL ENGINEER

STAND STRUCTURAL ENGINEERING INC
8234 ROBINSON STREET
OVERLAND PARK, KANSAS 66204
PH: 913-214-2169

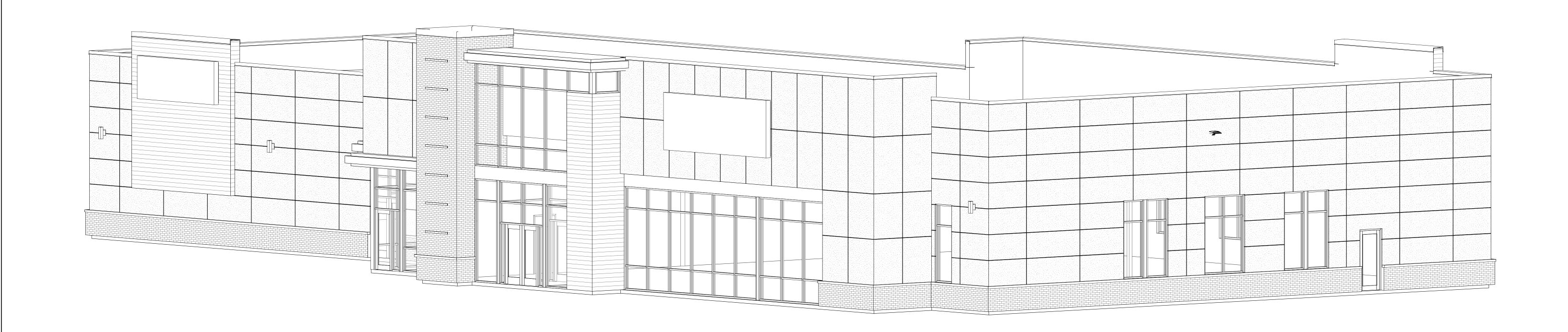
MEP ENGINEER

ARCHITECTURAL ENGINEERING CONSORTIUM, INC

10511 AUGUSTA DRIVE

KANSAS CITY, KANSAS 66109

SHEET NUMBER	SHEET NAME	CURRENT REVISION
I. ARCHITECTURE	-	<u>'</u>
A00	COVER	
A0.0	PROJECT INFORMATION	
A0.1	WALL TYPES	
A1.0	FLOOR PLAN	
A1.1	ROOF PLAN	
A2.0	BUILDING ELEVATIONS	
A2.1	BUILDING ELEVATIONS	
7		
II. STRUCTURE		
S001	STRUCTURAL GENERAL NOTES	
S030	TYPICAL DETAILS - CONCRETE	
S100	FOUNDATION PLAN	
S500	FOUNDATION SECTIONS	
4 Grand total: 11		·



#### **CODE INFORMATION**

OCCUPANCY USE GROUP: B
TYPE OF CONSTRUCTION: V-B

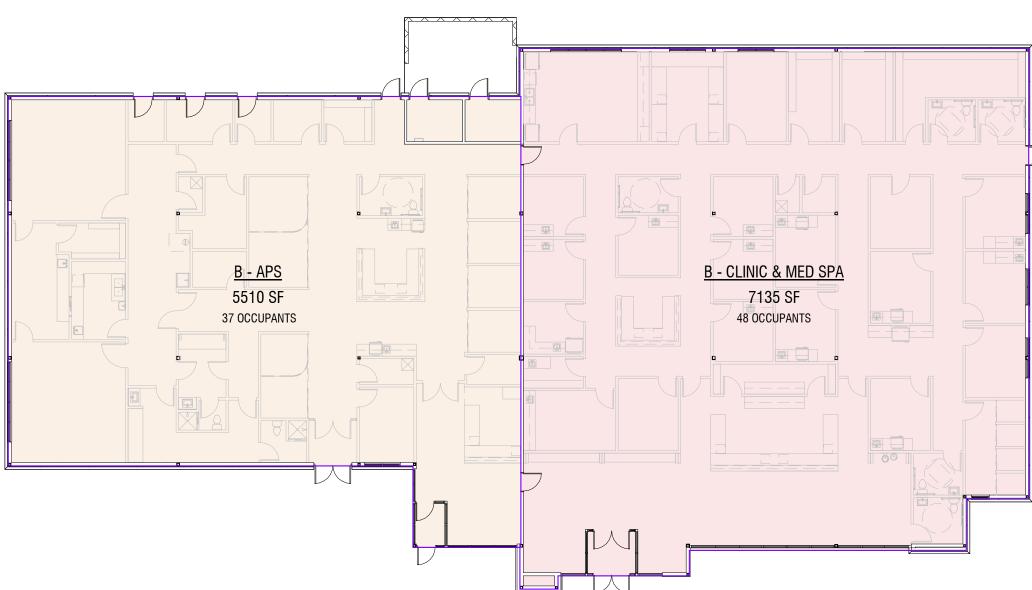
	REQUIRED/ALLOWED	PR	OVIDED	
SQUARE FOOTAGE				
PER STORY (IBC 506.2)	36,000 SQ.FT.	12,6	12,645 SQ.FT.	
TOTAL BUILDING AREA	N/A	12,6	12,645 SQ.FT.	
NUMBER OF STORY (IBC 504.4)	3 STORIES	1	STORY	
BUILDING HEIGHT (IBC 504.3)	60 FT.	2	29 FT.	
BUILDING ELEMENT FIRE RESISTANCE R	ATING			
PRIMARY STRUCTURAL FRAME	0 HR		0 HR	
BEARING WALL - EXTERIOR	0 HR		0 HR	
BEARING WALL - INTERIOR	0 HR		0 HR	
NONBEARING WALL AND PARTITIONS - EXTERIOR (IBC 602)	0 HR (10 <x<30; x="">30)</x<30;>		0 HR	
NONBEARING WALL AND PARTITIONS - INTERIOR	0		0	
FLOOR CONSTRUCTION	0 HR		0 HR	
ROOF CONSTRUCTION	0 HR		0 HR	
FIRE PROTECTION AND RESISTANCE REC	QUIREMENTS			
FIRE BARRIERS - STAIR ENCLOSURES	N/A		N/A	
FIRE PARTITIONS - DEMISING WALL	1HR		1HR	
FIRE PARTITIONS - HOR. ASSEMBLIES	N/A		N/A	
FIRE PARTITIONS - CORRIDOR WALLS	N/A		N/A	
FIRE PROTECTION SYSTEM	NFPA 13	NI	NFPA 13	
FIRE ALARM AND DETECTION (IBC 907)	FIRE & SMOKE ALARM	FIRE & SI	FIRE & SMOKE ALARM	
EGRESS				
OCCUPANT LOAD	TYPE	SF/LOAD FACTOR	OCCUPANCY LOA	
	ASC (BUSINESS)	5,510/150	37	
	CLINIC & MED SPA (BUSINESS)	7,135/150	48	
	TOTAL		85	
EGRESS WIDTH - STAIRS (IBC 1005.3)	N/A		N/A	
EGRESS WIDTH - OTHER (IBC 1005.3)	85 x 0.15" = 12.75" MIN.		238"	
NUMBER OF EXITS - ASC	1		3	
NUMBER OF EXITS - CLINIC & MED SPA	1		2	
MAX. TRAVEL DISTANCE TO EXIT	250' MAX. (PER IBC 1016.2)		124'	

#### APPLICABLE BUILDING CODES

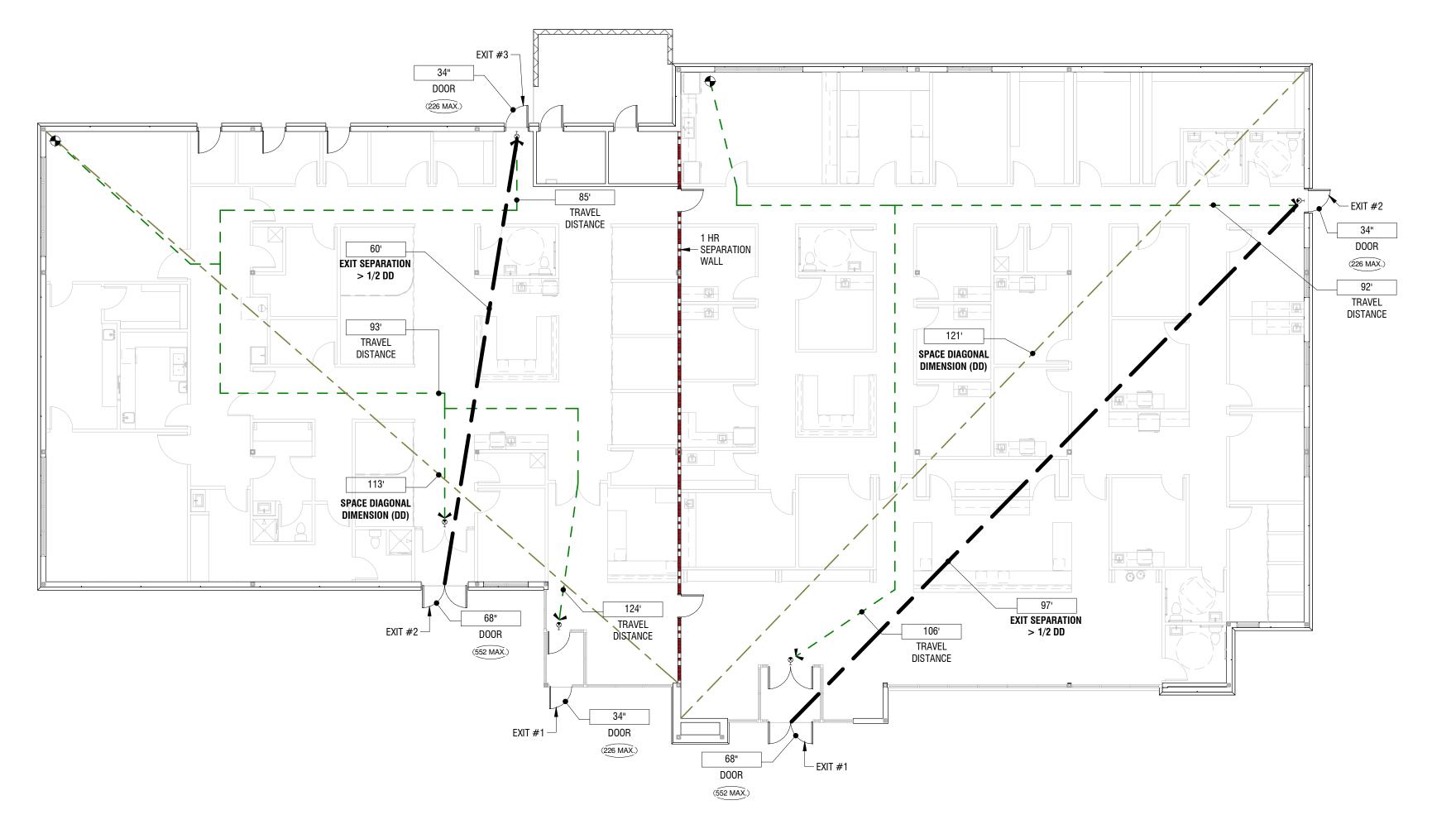
ROOF COVER CLASSIFICATION

- 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRICAL CODE ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

B - APS B - CLINIC & MED SPA











Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

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o not start Work until all permits and required approvals are obtained.

SURGEONS STIC

ASSOCIAT

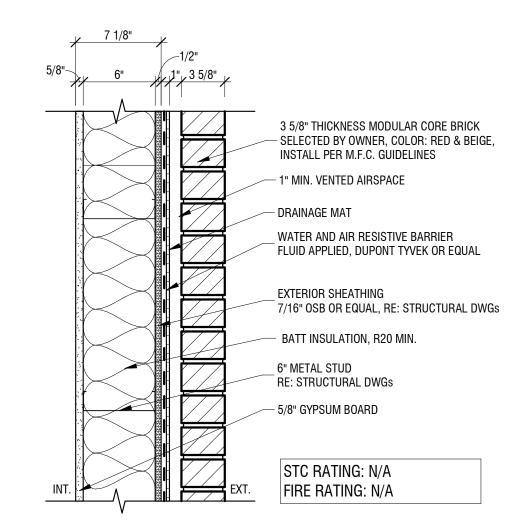
PROJECT NO. 231206

DRAWING ISSUANCE: NOV 1, 2024

SHEET NUMBER

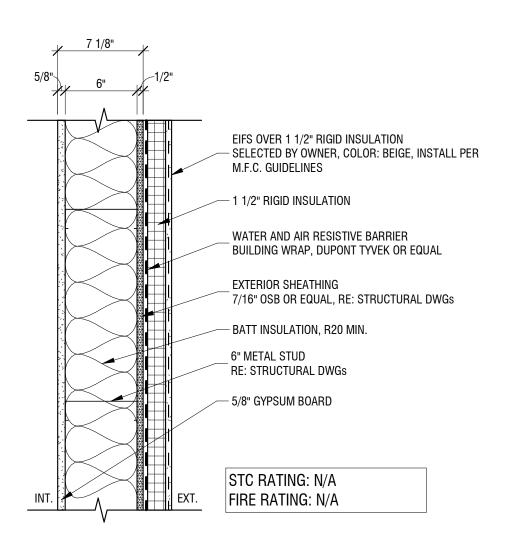
PROJECT INFORMATION

#### **WALL TYPES:**



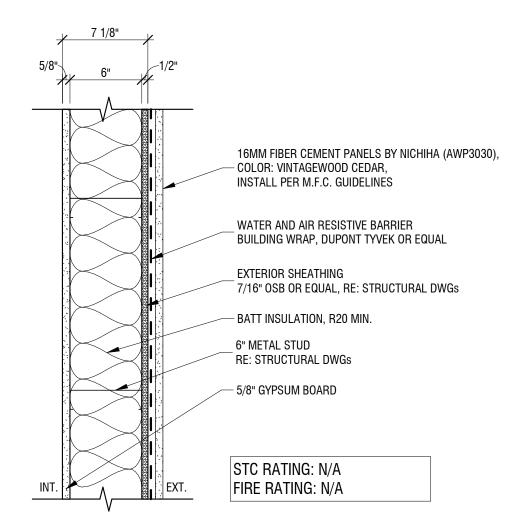
WALL TYPE '1A' -EXTERIOR WALL-BRICK

1 1/2" = 1'-0"



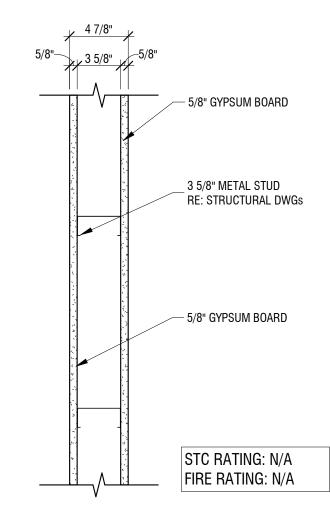
WALL TYPE '1B' -EXTERIOR WALL-EIFS

1 1/2" = 1'-0"



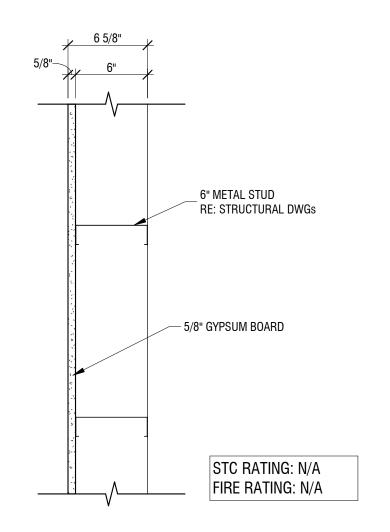
WALL TYPE '1C' -EXTERIOR WALL-FIBER 3 CEMENT PANEL

1 1/2" = 1'-0"



WALL TYPE '2' -TYP. PARTITION WALL

1 1/2" = 1'-0"



WALL TYPE '3' -6" STUD WALL-1 SIDE



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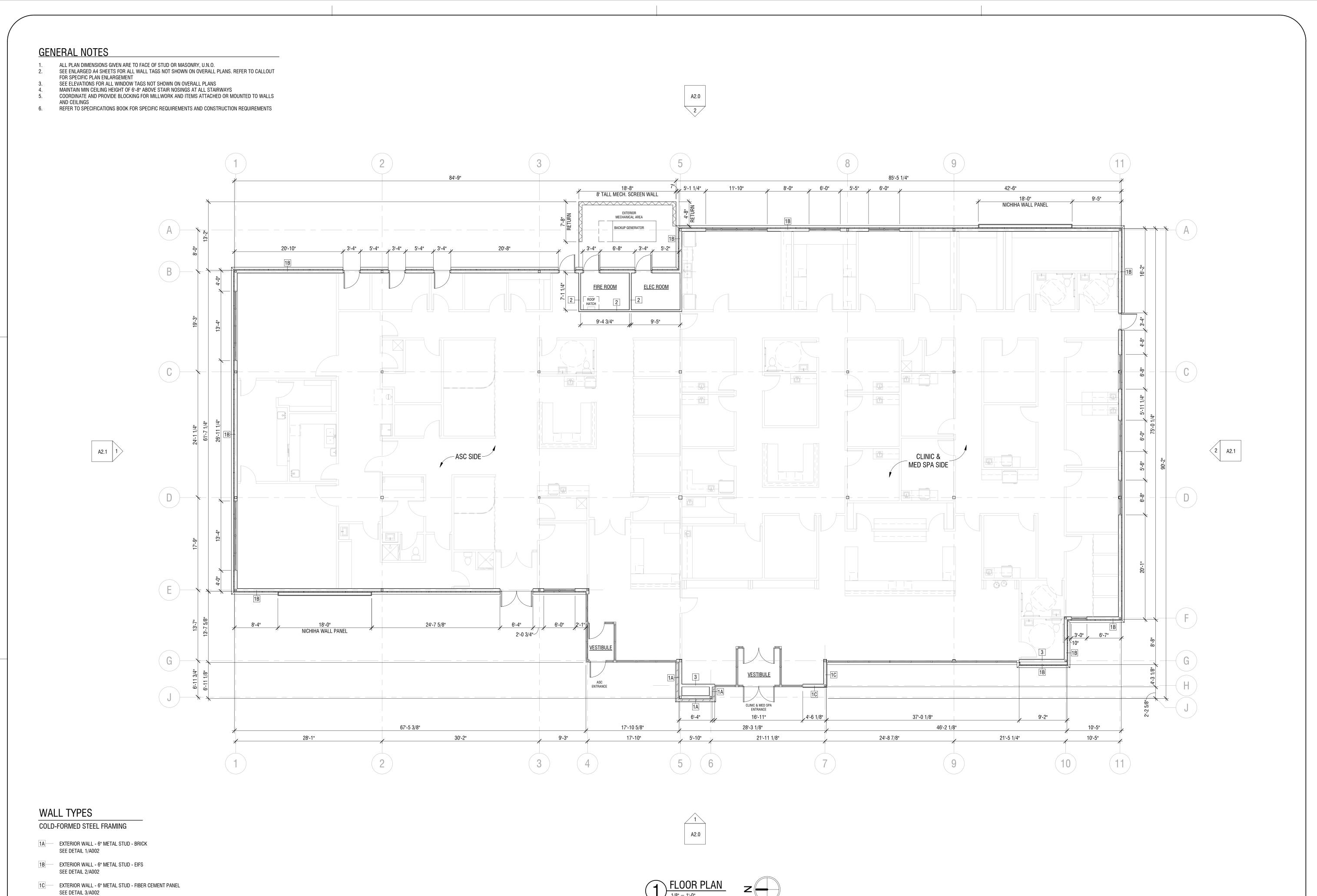
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PROJECT NO. 231206 DRAWING ISSUANCE: NOV 1, 2024 REVISION

SHEET NUMBER



2 INTERIOR WALL - 3 5/8" METAL STUD - TYPICAL

3 INTERIOR WALL - 6" METAL STUD - 1 SIDE FINISH

SEE DETAIL 4/A002

SEE DETAIL 5/A002

A NEW BUILDING ASSOC

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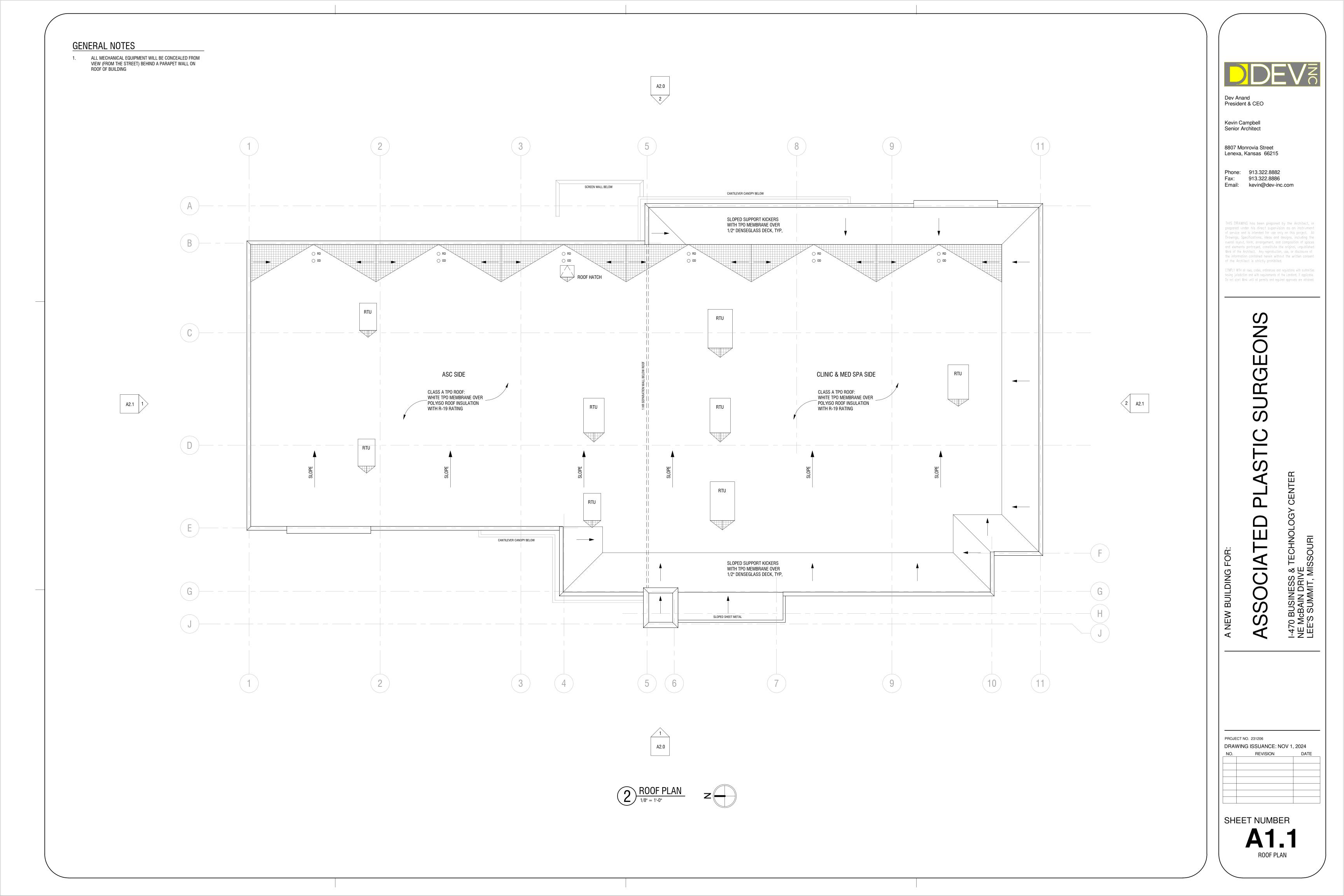
ST

PROJECT NO. 231206 REVISION

DRAWING ISSUANCE: NOV 1, 2024

SHEET NUMBER

FLOOR PLAN



**GENERAL NOTES** 

- ALL MECHANICAL EQUIPMENT WILL BE CONCEALED FROM VIEW (FROM THE STREET) BEHIND A PARAPET WALL ON ROOF OF BUILDING
- ALL COMMERICAL SIGNAGE WILL BE APPROVED BY SEPARATE APPLICATION AND REPLACE SIGNS SHOWN WILL GENERAL LOCATION WHERE SIGNS WILL BE LOCATED

**BRICK** RED BRICK

**BRICK** BEIGE BRICK



#### FIBER CEMENT PANEL **EIFS SYSTEM** VINTAGEWOOD CEDAR

BEIGE

#### EXTERIOR SCHEDULE

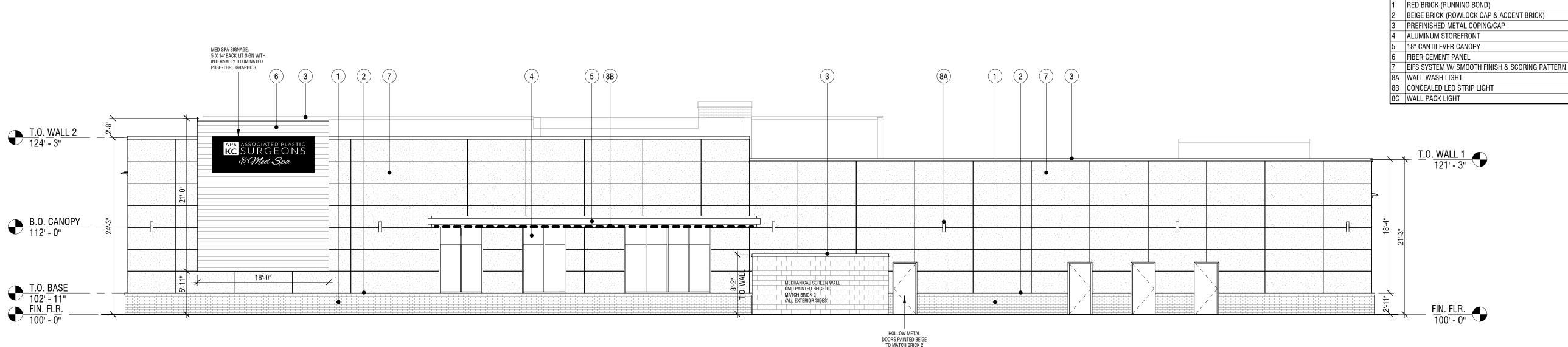
NO.	MATERIAL/ITEMS	DESCRIPTION/MANUFACTURER	COLOR/FINISH
1	BRICK	TO BE SELECTED BY OWNER	COLOR: RED BRICK (RUNNING BOND)
2	BRICK	TO BE SELECTED BY OWNER	COLOR: BEIGE BRICK (ROWLOCK BASE CAP & ACCENT BRICK)
3	PREFINISHED METAL	COPING/CAP FLASHING	COLOR: BLACK
4	ALUMINUM STOREFRONT	W/ 1" INSULATED GLASS	COLOR (FRAME): BLACK
5	PREFINISHED METAL	18" DEEP CANTILEVER CANOPY	COLOR: BLACK
6	FIBER CEMENT PANEL	NICHIHA FIBER CEMENT	COLOR: VINTAGE WOOD CEDAR
7	EIFS SYSTEM	TO BE SELECTED BY OWNER	COLOR: BEIGE WITH SMOOTH FINISH & SCORING PATTERN
8	BUILDING LIGHTING	RE: EXTERIOR LIGHTING SCHEDULE	

#### EXTERIOR LIGHTING SCHEDULE

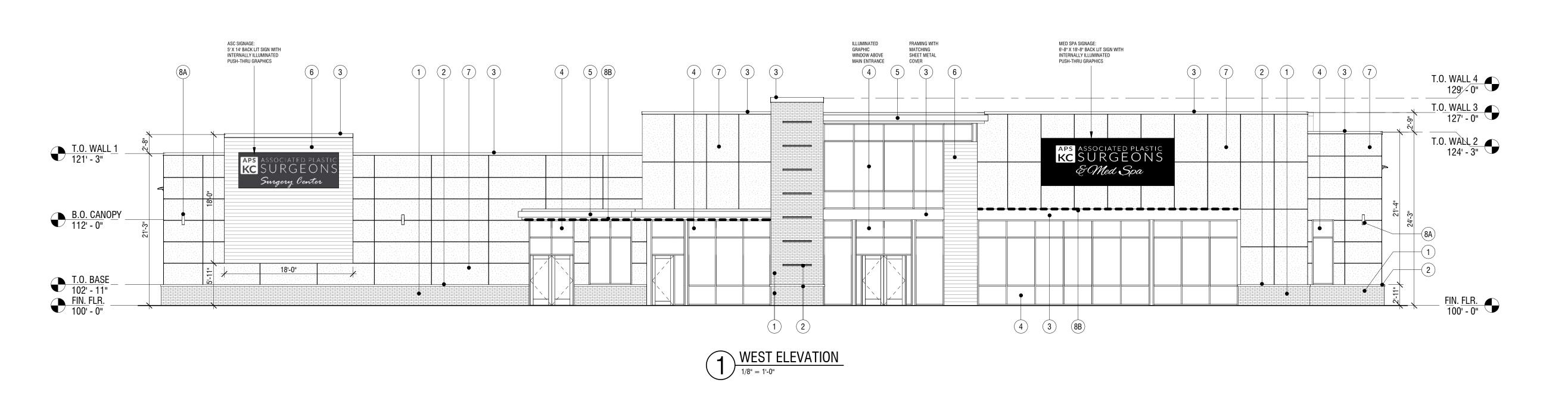
上八	LATERIOR EIGITING GOTEDOLL			
NO.	ТҮРЕ	DESCRIPTION/MANUFACTURER	REMARKS	
8A	UP/DOWN	LED, BLACK FINISH SYRIOS PRO SQP402 BY LUMINIS OR EQUAL	WALL WASH AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY	
8B	LINEAR	CONTINUOUS BUILT-IN, CONCEALED LED STRIP	HORIZONTAL HIGHLIGHT AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY	
8C	WALL PACK	LED, BLACK FINISH D-SERIES SIZE 1 LED WALL LUMINAIRE DSXW1LED BY LITHONIA OR EQUAL	GENERAL ILLUMINATION AT NORTH & SOUTH ELEVATIONS	

**ELEVATION KEYNOTES** 

NOTES



 $\underbrace{2}_{1/8" \,=\, 1"\text{-}0"}^{\text{EAST ELEVATION}}$ 



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ASSOCIATED

A NEW BUILDING FOR:

I-470 BUSINESS & TECHNOLOGY NE McBAIN DRIVE LEE'S SUMMIT, MISSOURI

PROJECT NO. 231206 DRAWING ISSUANCE: NOV 1, 2024 REVISION

SHEET NUMBER

BUILDING ELEVATIONS

#### **GENERAL NOTES**

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**BRICK** RED BRICK

**BRICK** BEIGE BRICK





EIFS SYSTEM

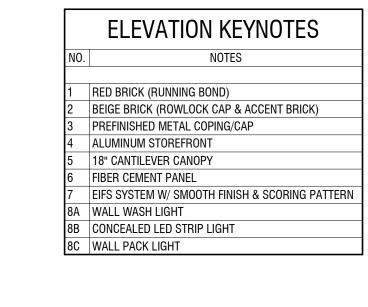
BEIGE

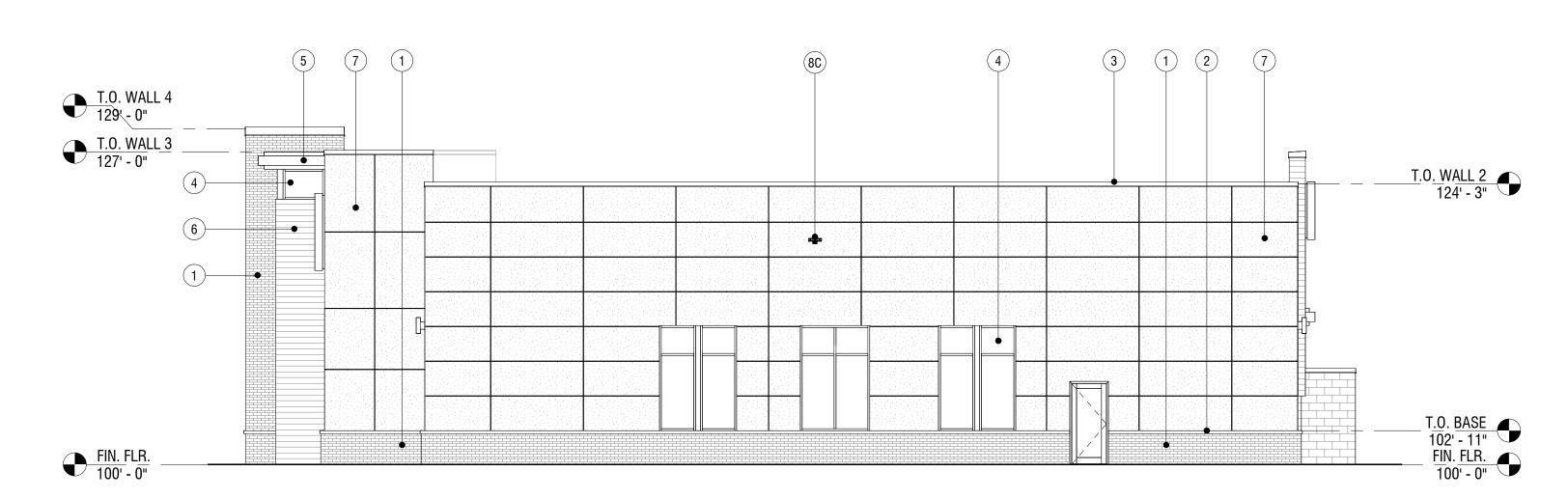
#### EXTERIOR SCHEDULE

NO.	MATERIAL/ITEMS	DESCRIPTION/MANUFACTURER	COLOR/FINISH
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8	BUILDING LIGHTING	RE: EXTERIOR LIGHTING SCHEDULE	

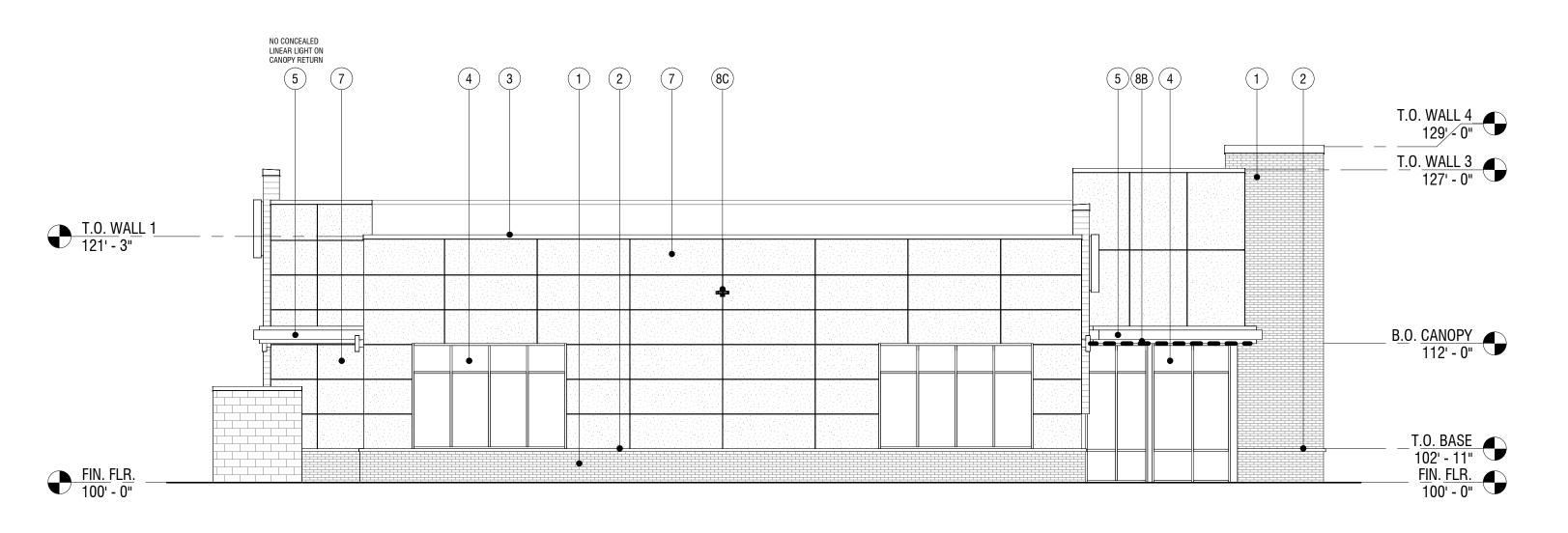
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ΕX	EXTERIOR LIGHTING SCHEDULE			
NO.	ТҮРЕ	DESCRIPTION/MANUFACTURER	REMARKS	
8A	UP/DOWN	LED, BLACK FINISH SYRIOS PRO SQP402 BY LUMINIS OR EQUAL	WALL WASH AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY	
8B	LINEAR	CONTINUOUS BUILT-IN, CONCEALED LED STRIP	HORIZONTAL HIGHLIGHT AT WEST & EAST ELEVATIONS WITH HIGH VISIBILITY	
8C	WALL PACK	LED, BLACK FINISH D-SERIES SIZE 1 LED WALL LUMINAIRE DSXW1LED BY LITHONIA OR EQUAL	GENERAL ILLUMINATION AT NORTH & SOUTH ELEVATIONS	











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PROJECT NO. 231206 DRAWING ISSUANCE: NOV 1, 2024

SHEET NUMBER

BUILDING ELEVATIONS

A1.1	03_Abbreviation Schedule
Abbreviation +/-	Abbreviation Name PLUS OR MINUS
ADDNL	ADDITIONAL
ADJ AESS	ADJACENT  ARCHITECTURALLY EXPOSED
٨٦٦	STRUCTURAL STEEL
AFF ALT	ABOVE FINISHED FLOOR ALTERNATE
AR	ANCHOR ROD
ARCH B/	ARCHITECT OR ARCHITECTURAL BOTTOM OF
B/W	BETWEEN
BLDG BLKG	BUILDING BLOCKING
BM	BEAM
BOT BRG	BOTTOM BEARING
BWP	BRACED WALL PANEL
CFS CHKD	COLD FORMED STEEL CHECKED
CIP	CAST IN PLACE
CJ CJP	CONTROL JOINT  COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR COL	CLEAR COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS CENTER
db	DIA OF REINF BAR, DIA OF BOLT
DBA DIA or Ø	DEFORMED BAR ANCHOR DIAMETER
DIA OF Ø	DIAGONAL
DIR	DIRECTION
DWL EA	DOWEL EACH
EE	EXTENDED END
EJ	EXPANSION JOINT
ELEV EN	ELEVATION EDGE NAILING
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS EQ	EDGE OF SLAB EQUAL
EW	EACH WAY
EXIST EXT	EXISTING EXTERIOR
FDN	FOUNDATION
FLG FLR	FLANGE FLOOR
FS	FAR SIDE
FTG	FOOTING
FV GA	FIELD VERIFY GAUGE
GALV	GALVANIZED
GB GC	GRADE BEAM GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS IF	HOLLOW STRUCTURAL SECTION INSIDE FACE
INT	INTERIOR
JST K	JOIST KIPS (1000 LBS)
LCE	COMPRESSION EMBEDMENT LENGTH
LCS LLH	COMPRESSION LAP SPLICE LENGTH LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SLOTTED HOLE
LTE LTS	TENSION EMBEDMENT LENGTH TENSION LAP SLICE LENGTH
LW	LIGHTWEIGHT
MFCR MTL	MANUFACTURER METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS OC	NOT TO SCALE ON CENTER
OF	OUTSIDE FACE
OPP OVS	OPPOSITE OVERSIZED
P/C	PRECAST
PAF	POWDER ACTUATED FASTENER
PAR PEMB	PARALLEL PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
PERP PL	PERPENDICULAR PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED  DDELIMINADY
PRELIM PSF	PRELIMINARY POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSI RC	REINFORCED CONCRETE
PSI	
PSI RC RE: REINF REQD	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED
PSI RC RE: REINF	REINFORCED CONCRETE REFER TO REINFORCING
PSI RC RE: REINF REQD RF SC SDS	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW
PSI RC RE: REINF REQD RF SC SDS SIM	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR
PSI RC RE: REINF REQD RF SC SDS	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO VERT	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO VERT W/ W/O WF	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL WITH WITHOUT WIDE FLANGE
PSI RC RE: REINF REQD RF SC SDS SIM SLV SOG SQ SS STD STIR STL SW SYM T&B T/ TRANS TYP UNO VERT W/ W/O	REINFORCED CONCRETE REFER TO REINFORCING REQUIRED RIGID FRAME SLIP CRITICAL SELF DRILLING SCREW SIMILAR SHORT LEG VERTICAL SLAB ON GRADE SQUARE STAINLESS STEEL STANDARD STIRRUPS STEEL SHEAR WALL SYMMETRIC TOP AND BOTTOM TOP OF TRANSVERSE TYPICAL UNLESS NOTED OTHERWISE VERTICAL WITH WITHOUT

5. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT / ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. ITEMS THAT ARE DESIGNED BY THE CONTRACTOR SHALL BE DESIGNED TO RESIST THE LIVE LOADS INDICATED IN STRUCTURAL NOTES, DEAD LOAD, SELF WEIGHT, ANY ADDITIONAL LOADING INDICATED ON PLANS AND DETAILS, SNOW DRIFT, AND A NET WIND UPLIFT. THESE ITEMS DESIGNED BY THE CONTRACTOR SHALL INCLUDE ANY RELEVANT TECHNICAL LITERATURE FROM THE MANUFACTURER, SUCH AS ICC-ES REPORTS DEMONSTRATING CODE COMPLIANCE.

6. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.

7. UNLESS DICTATED OTHERWISE BY THE CONTRACT DOCUMENTS, THE ENGINEER SHALL HAVE A MINIMUM OF 10 WORKING DAYS FROM RECEIPT OF SHOP DRAWINGS FOR REVIEW AND SHALL HAVE A MINIMUM OF 3 WORKING DAYS FOR RFI

8. SEE MATERIAL SPECIFIC SECTIONS IN THE GENERAL NOTES FOR REQUIRED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED.

9. THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS AND BRACING OF ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. ANY CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7, CHAPTER 13 AND SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE APPROPRIATE STATE AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.

#### SPECIAL INSPECTIONS:

STRUCTURAL DESIGN CRITERIA (2018 IBC AND ASCE 7-16):

..20 PSF / 300#

..100 PSF / 2.0 K

...1.0, EXPOSURE C

...117 MPH

..88 MPH

.1.1 (just above freezing)

..1.0 (for ¼ per foot roofs)

..7.3K (ELF AND ASD)

...0.029

...8.31 IN/HR

...3.92 IN/HR

....22 PSF + DRIFT PER PLAN

20 PSF

-- MIN UNIFORM ROOF SNOW LOAD (Pm):.........20 PSF (NO DRIFT OR RAIN)

-- RAIN ON SNOW SURCHARGE (Prs) ......5.0 PSF

-- GROUND ELEVATION ABOVE SEA LEVEL......987 FT

-- SEISMIC IMPORTANCE FACTOR (Ie):.....1.25

-- MAPPED SPECTRAL RESP ACCEL (Ss / S1):.....0.099 / 0.068

-- SPECTRAL RESPONSE COEFF (Sds / Sd1):.....0.086 / 0.068

-- SEISMIC FORCE RESISTING SYSTEM:.....R=3, STEEL

OVERFLOWS) ARE PROVIDED. ROOF IS DESIGNED FOR LIVE LOAD INDICATED

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL

BUILDING CODE, 2018 EDITION" AS AMENDED BY THE CITY OF LEESUMMIT, MO.

REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL

2. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING

CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO

3. IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL

THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM

4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE

SEQUENCING AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT

6. FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES

7. COLUMNS, BEAMS, JOISTS, OR TRUSSES SHALL NOT BE FIELD CUT OR TRIMMED

RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES,

PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING.

TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.

5. THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE

MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT

8. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE

DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE

10. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION

12. DELEGATED DESIGN - DEFERRED SUBMITTALS SHALL BE SIGNED/ SEALED

SUBMIT THESE SHOP DRAWINGS AND CALCULATIONS SEALED BY A STRUCTURAL

ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE PROJECT SHALL

BE FURNISHED TO THE ENGINEER OF RECORD FOR REVIEW. CONTRACTOR SHALL

13. TYPICAL DETAILS ARE SHOWN ON SHEETS DESIGNATED "S0XX". THE INCLUDED

SUBMITTAL SCHEDULE ITEMIZING ALL PROPOSED SUBMITTALS FOR APPROVAL BY

2. ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND APPROVED

DOCUMENTS, DIMENSIONAL ERRORS, COORDINATION ERRORS, OR OMISSIONS IN

SHOP DRAWINGS. EOR IS NOT RESPONSIBLE FOR ANY DELAYS CAUSED BY THESE

3. SHOP DRAWINGS SHALL INCLUDE CONNECTIONS AS WELL AS SIZE, SPACING,

4. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL

ENGINEER OF RECORD PRIOR TO RELEASE FOR FABRICATION AND CONSTRUCTION.

AND GRADE OF ALL MEMBERS AND MATERIALS. PLANS AND ANY DETAILING NECESSARY FOR DETERMINING FIT AND PLACEMENT SHALL ALSO BE INCLUDED.

BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL

VERIFYING GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS.

CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE CONTRACT

ENGINEER OF RECORD. SHOP DRAWING REVIEW BY ENGINEER IS LIMITED TO

TYPICAL DETAILS MAY OR MAY NOT BE CUT / REFERENCED ON PLANS OR

SUBMIT COPIES OF DEFERRED SUBMITTALS TO BUILDING DEPARTMENT AFTER

MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.

SUPPORTING MEMBERS (TYPICAL UNLESS NOTED OTHERWISE).

PRIOR TO SUBMITTAL FOR REVIEW. THESE INCLUDE:

A. STRUCTURAL STEEL CONNECTIONS

SECTIONS, BUT ARE TO BE USED AS APPLICABLE

STRUCTURAL ENGINEER OF RECORD.

REQUIREMENTS NOT BEING MET.

9. IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS

11. BEAMS, COLUMNS, WALLS AND FOOTING CENTERS SHALL BE CENTERED UNDER

REVIEWED BY THE ARCHITECT/ENGINEER BEFORE PLACEMENT THROUGH

FOR ANY REASON WITHOUT THE WRITTEN APPROVAL OF THE

PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR

BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S

DESIGN ASSUMES APPROPRIATE ROOF SLOPE AND DRAINAGE (INCLUDING

-- SNOW LOAD IMPORTANCE FACTOR (Is):.........1.0

2. LIVE LOADS [UNIFORM (PSF) / POINT LOADS (KIPS)]:

-- SNOW EXPOSURE FACTOR (Ce):...

-- BASIC WIND SPEED (3 SEC GUST):..

1. BUILDING OCCUPANCY RISK CATEGORY II.

-- GROUND LEVEL SLAB

-- GROUND SNOW LOAD (Pg) -- FLAT ROOF SNOW LOAD (Pf):

-- THERMAL FACTOR (Ct):.

ASD WIND SPEED, V(ASD)...

-- DIRECTIONALITY FACTOR (Kd) .

-- INTERNAL PRESSURE COEFF:.

-- SEISMIC DESIGN CATEGORY:.

-- SEISMIC RESPONSE COEFF (Cs):..

-- DESIGN BASE SHEAR:.

-- ANALYSIS PROCEDURE:..

15-MIN RAIN INTENSITY

STRUCTURAL GENERAL NOTES:

- SLOPE FACTOR (CS)...

-- WIND EXPOSURE:

5. EARTHQUAKE DESIGN DATA:

-- SITE CLASS:...

6. RAIN LOAD DATA:

REQUIREMENTS.

COMMENCING WORK.

EXPANSION.

DOCUMENTS.

ARCHITECT/ENGINEER.

STRUCTURAL MEMBERS.

ARCH/ENG REVIEW.

**SUBMITTALS:** 

ADJUSTMENTS WITH THE ARCHITECT.

-- ROOF:.

ROOF SNOW LOAD:

4. WIND DESIGN DATA:

1. PROVIDE SPECIAL STRUCTURAL INSPECTIONS AND VERIFICATIONS BY A THIRD PARTY MEETING THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE AND THE BUILDING OFFICIAL.

2. SPECIAL INSPECTORS SHALL BE QUALIFIED AND FURNISH THEIR REPORTS IN A TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIALS, ARCHITECT, AND/OR

3. SHOULD INSPECTOR IDENTIFY ANY DISCREPANCY, THEY SHALL NOTIFY CONTRACTOR FIRST, AND THEN ARCH/ENGINEER IMMEDIATELY THEREAFTER IF CORRECTIVE ACTION IS NEEDED.

4. SPECIAL INSPECTIONS AS REQUIRED BY CODE:

A. STEEL: SECTION 1705.2, AND AISC 360. PERIODIC OBSERVATIONS OF CONNECTION, ALL BRACED-FRAME CONNECTIONS, WELDERS & FIELD WELDING. B. CONCRETE: SECTION 1705.3 AND TABLE 1705.3 CONCRETE MATERIAL SAMPLING AND TESTING, REBAR OBSERVATIONS. TAKE SET OF (3) CYLINDERS FOR EVERY 50 C.Y., BUT NOT LESS THAN ONE SET OF SAMPLES PER DAY'S WORK

C. SOILS: SECTION 1705.6. FOUNDATION BEARING, EXCAVATION, FILL PLACEMENT.

D. POST-INSTALLED ANCHORS: TABLE 1705.3

#### **EARTHWORK AND FOUNDATIONS:**

1. REFERENCE THE GEOTECHICAL INVESTIGATION PREPARED BY ALPHA OMEGA GEOTECH, INC DATED JUNE 7, 2024 (JOB NO. 240117 E). THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT AND FOLLOW ALL RECOMMENDATIONS WITHIN.

2. PERIMETER AND EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM OF 3'-0" BELOW ADJACENT GRADE.

3. ALL FOOTINGS SHALL BEAR ON FIRM NATIVE MATERIALS, COMPACTED OR ENGINEERED FILL CAPABLE OF SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF (3,000 PSF AT INVIDIVIDUAL COLUMN FOOTINGS) PER THE GEOTECHNICAL REPORT. DEEPEN FOOTINGS, AND REMOVE AND REPLACE UNACCEPTABLE SOILS WITH ENGINEERED FILL AS REQUIRED TO PROVIDE THIS MINIMUM DEPTH AND SUITABLE BEARING.

4. UNDERCUT THE PAD TO A DEPTH OF 24-INCHES BELOW BOTTOM OF FLOOR SLAB ELEVATION AND REPLACE WITH LOW-VOLUME-CHANGE MATERIALS PER THE GEOTECHNICAL REPORT.

5. FILL PLACEMENT, COMPACTION, AND SOIL BEARING TESTS SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER PRIOR TO INSTALLING FOOTINGS TO ENSURE DESIGN ALLOWABLE BEARING VALUES AND SLAB SUBGRADE REQUIREMENTS ARE SATISFIED. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS, COORDINATE ADJUSTMENTS WITH ARCHITECT/ENGINEER/ GEOTECHNICAL ENGINEER

6. SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION AND SLAB SUBGRADES UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOILS AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 5% OR 6" MIN FOR THE FIRST TEN FEET AND AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.

7. FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE

8. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.

9. DO NOT PLACE CONCRETE UNLESS FOOTING EXCAVATIONS ARE FREE OF ALL WATER, FROST, ICE AND LOOSE SOIL. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION SO THAT EXCESSIVE DRYING OF BEARING MATERIALS DOES NOT OCCUR. BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED INDEPENDENT TESTING LAB PRIOR TO PLACEMENT OF CONCRETE.

#### 1. GENERAL CONTRACTOR TO PROVIDE A SHOP DRAWING SUBMITTAL LOG AND

**CONCRETE REINFORCING STEEL:** 

CONTACT WITH GROUND.

1. SUBMIT SHOP DRAWINGS FOR REBAR. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.

2. ALL WELDED WIRE REINFORCEMENT (WWR) SHALL MEET ASTM A1064: LAP A MINIMUM OF 8" OR ONE FULL MESH, WHICHEVER IS GREATER.

4. MAINTAIN MINIMUM CONCRETE PROTECTION OR COVER FOR REINFORCING AS

3. REINFORCING BAR QUANTITIES SHOWN ARE FOR ESTIMATING PURPOSES ONLY.

INDICATED, UNLESS NOTED OTHERWISE: 3" CLEAR WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND.

2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT

WITH GROUND BUT CAST AGAINST FORMS FOR BARS LARGER THAN #5. 1 1/2" CLEAR WHERE CONCRETE IS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND BUT CAST AGAINST FORMS FOR BARS #5 OR SMALLER

3/4" CLEAR FOR SLABS, JOISTS AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND. 1 1/2" CLEAR FOR BEAMS AND COLUMNS NOT EXPOSED TO WEATHER OR IN

5. CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, SLAB DOWELS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT, "WET STICKING" DOWELS WILL NOT BE ALLOWED.

REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST A.C.I. DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED FIRM AND PERSON. PLACE AND SUPPORT REINFORCEMENT WITH ACCESSORIES: MAXIMUM SPACING - 48" CENTERS (PLASTIC-TIPPED LEGS FOR EXPOSED SURFACES). USE 3" SBP SUPPORTS AT ALL FOOTINGS.

7. ALL STRUCTURAL ADHESIVE FOR REINFORCING SHALL BE SIMPSON SET-3G OR HILTI HIT-HY 200-R OR EQUIVALENT. ALL STRUCTURAL ADHESIVE SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE ICC-ES EVALUATION REPORTS.

#### CAST IN PLACE CONCRETE:

1. SUBMIT PROPOSED MIXED DESIGNS OF EACH TYPE FOR REVIEW. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:

> a. FOOTING AND GRADE BEAM CONCRETE.. ..4000 PSI b. BASEMENT / FOUNDATION WALL CONCRETE... ...4000 PSI c. SLAB ON GRADE. ..4000 PSI

2. ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.52 (0.45 FOR MOISTURE SENSITIVE FLOORING). WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. CONCRETE MIX DESIGNS THAT DO NOT CONFORM TO THE ABOVE STANDARD AND/OR CONTAIN WATER REDUCING ADMIXTURES SHALL BE SUBMITTED WITH APPROPRIATE TEST DATA PER A.C.I.. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE A.C.I. 301 STANDARD THAT IS REFERENCED IN THE BUILDING CODE AT THE TIME OF PERMITTING THE PROJECT..

3. EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) SHALL HAVE 6.5% (PLUS/MINUS 1.5%) ENTRAINED AIR.

4. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" (VERIFY WITH ARCHITECT).

5. NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE. 6. NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE

SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.

CHANGES IN WALL THICKNESS

7. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR

8. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE

9. CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 60'-0". INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAX FOR WALLS. CONTROL JOINTS IN WALLS SHALL ALSO BE LOCATED 15'-0" FROM CORNERS AND AT

10. WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE.

11. SLABS ON GRADE SHALL BE 4" THICK MINIMUM ON 4" OF GRANULAR FILL. REINF SLAB WITH 6 X 6-W2.1xW2.1 WWR OR #3 BARS @ 18" OC EA WAY. PLACE REINF IN UPPER 1/3 OF SLAB THICKNESS. AT INTERIOR SLABS, A 10 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN DURING CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE

12. SAW CUT JOINTS OR KEYED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 40%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. SPACING BETWEEN JOINTS SHALL NOT EXCEED 15 FEET. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO TYPICAL DETAILS.

REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED PER TYPICAL DETAIL (2' -6" MIN) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND

AT 10" CENTERS EACH WAY, EACH FACE 15. MINIMUM REINFORCING AROUND CONCRETE WALL OPENINGS 2'-0" OR GREATER

14. MINIMUM CONCRETE WALL REINFORCING (WALL 10" OR GREATER) SHALL BE #5

(TYPICAL UNLESS NOTED): 2 - #5, EXTEND REINF 2'-0" PAST OPENINGS. PROVIDE 2-#5 x 4'-0" DIAGONAL BARS AT CORNERS

16. CONTRACTOR SHALL COORDINATE ALL CURING COMPOUNDS WITH FLOOR FINISH REQUIREMENTS TO ENSURE COMPATIBILITY.

17. FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. INSTALL ANCHOR RODS TO THE STRICT DIMENSIONAL TOLERANCES PER AISC REQUIREMENTS. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A RIGID TEMPLATE.

18. AGGREGATES AND/OR CONCRETE MIXES SHALL BE CERTIFIED TO BE FREE OF AND ELIMINATE DAMAGE OF CONCRETE DUE TO ALKALI-SILICA REACTION OR ALKALI-AGGREGATE REACTIONS WHEN EXPOSED TO SOILS AND/OR AN EXTERIOR ENVIRONMENT.

19. ALL CONCRETE MIX DESIGNS EXPOSED TO AN EXTERIOR ENVIRONMENT SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METRO MATERIALS BOARD (KCMMB) OR THE JOHNSON COUNTY CONCRETE BOARD (JCCB).

#### STRUCTURAL STEEL:

 STRUCTURAL STEEL SHAPES AND PLATE MATERIAL REQUIREMENTS (TYPICAL) UNLESS NOTED OTHERWISE):

- a. WIDE FLANGE SHAPES ASTM A992 (FY = 50 KSI MIN.) b. CHANNELS, ANGLES, AND PLATES: - ASTM A36 (FY = 36 KSI MIN)
- c. ROUND HSS ASTM A500, GR B (FY = 42 KSI) d. RECTANGULAR HSS - ASTM A500, GR B (FY = 46 KSI)
- e. PIPE ASTM A53, GR B (FY = 35 KSI)
- f. ANCHOR RODS ASTM F1554 (FY = 36 KSI MIN.) g. ADHESIVE ANCHORS - SIMPSON SET-3G, HILTI HIT-HY 200, OR

2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE 15TH EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES",

EXCLUDING SECTION 4.4.1.B. STRUCTURAL STEEL THROUGHOUT THE PROJECT HAS BEEN DESIGNED USING ASD DESIGN METHODOLOGY. 3. THE STRUCTURAL STEEL FABRICATOR SHALL BE AN AISC QUALITY CERTIFIED COMPANY FOR THE CATEGORY OF WORK IN THIS PROJECT OR PROVIDE A QUALITY

ASSURANCE PLAN AND SPECIAL INSPECTIONS AS DEFINED IN THE CODE.

4. USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS, F436 WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED OTHERWISE.

5. BOLTS IN MOMENT AND BRACED FRAME CONNECTIONS SHALL BE PRE-TENSIONED. ALL A490 BOLTS SHALL BE PRE-TENSIONED. OTHER BOLTED CONNECTIONS USING A325 BOLTS MAY BE SNUG-TIGHTENED, UNLESS NOTED

6. STEEL BEAMS SHALL BE FABRICATED WITH MILL CAMBER UP.

7. WELDING SHALL CONFORM TO THE CURRENT AND APPLICABLE AWS STANDARDS AND BE COMPLETED BY AN AWS CERTIFIED WELDER. ALL WELDS SHALL UTILIZE E70xx ELECTRODES. SHOP DRAWINGS SHALL SHOW FIELD WELDS, AS

a. AWS D1.1 - STRUCTURAL WELDING CODE - STEEL b. AWS D1.3 - STRUCTURAL WELDING CODE - SHEET STEEL 8. WELD SIZES SHALL BE INCREASED TO MEET THE REQUIRED EFFECTIVE THROAT WIDTH IF GAPS EXIST AT THE FAYING SURFACE.

9. NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON THE STRUCTURAL DRAWINGS. WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

10. SEE ARCHITECTURAL PLANS FOR FIREPROOFING & FINISHING REQUIREMENTS, AND COORDINATE STEEL PRIMING & COATINGS ACCORDINGLY.

11. GROUT WHERE INDICATED ON PLANS AT BASE PLATES SHALL BE NON-METALLIC NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS CONFORMING TO ASTM C1107

12. ALL POST-INSTALLED ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR HILTI, INC. AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE IC-ES EVALUATION REPORTS.

13. ALL STEEL AND ASSOCIATED FASTENERS NOT PROTECTED FROM WEATHER OR WHOLLY WITHIN A CONDITIONED SPACE (INCLUDING ALL MASONRY LINTELS) SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.

14. CONNECTION REQUIREMENTS: REACTIONS SHOWN ON THE DRAWINGS ARE ASD UNFACTORED ALLOWABLE STRESS DESIGN METHOD, THAT SHALL NOT BE REDUCED FURTHER THAN SHOWN. CONTRACTOR MAY OPT TO USE THE TYPICAL DETAILS SHOWN WHERE THE

CAPACITIES ARE GREATER THAN THE REACTIONS INDICATED ON THE DRAWINGS

CONNECTION DESIGN IS REQUIRED ELSEWHERE AS FOLLOWS:

AT BRACED FRAMES AT AXIALLY LOADED BEAM CONNECTIONS

AT MOMENT CONNECTIONS

AT ALL CONDITIONS NOT COVERED BY THE TYPICAL STANDARD SHEAR CONNECTION AT ALTERNATIVE CONNECTION TYPES DESIRED BY FABRICATOR OR

ERECTOR IF FIRST REQUESTED AND APPROVED BY THE EOR.

STAIR FRAMING AND RAILINGS

PROHIBITED CONNECTIONS AND NOTES: SINGLE-ANGLE SHEAR CONNECTIONS ARE PROHIBITED DOUBLE-ANGLE SHEAR CONNECTIONS ARE NOT PERMISSIBLE AT

ADDITIONAL REQUIREMENTS: USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS, F436 WASHERS, AND A563 HEAVY-HEX NUTS AS REQUIRED, UNLESS NOTED

CONNECTIONS WITH AXIAL LOADS OR AT BRACED FRAMES

OTHERWISE ALL CONNECTIONS REQUIRE A MINIMUM OF 2 BOLTS AND A MINIMUM

CAPACITY OF 10 KIPS. FOR STEEL BEAMS 10-FT OR LESS IN LENGTH, IF REACTION ON PLAN IS NOT SHOWN ASSUME 10 KIPS (ASD).

FOR BEAMS GREATER THAN 10-FT IN LENGTH, IF REACTION ON PLAN IS NOT SHOWN THE REACTION SHALL BE ASSUMED TO BE ONE HALF THE TOTAL ALLOWABLE UNIFORM CODE FOR THE BEAM SPAN FROM AISC STEEL CONSTRUCTION MANUAL UNLESS THE VALUE IS OBTAINED FROM THE ENGINEER OF RECORD.

SUBMIT SIGNED/SEALED SHOP DRAWINGS AND CALCULATIONS FOR THE DESIGN OF ALL STEEL CONNECTIONS, AND A LETTER SEALED BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT STATING THAT THEY HAVE REVIEWED THE STEEL SHOP DRAWINGS FOR CONFORMANCE TO THE DESIGN REQUIREMENTS.

15. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL FIELD VERIFICATION PRIOR TO PRODUCTION OF SHOP DRAWINGS OR FABRICATION OF STRUCTURAL ELEMENTS. ARCHITECT / ENGINEER WILL RETURN "REJECTED" ANY SUBMITTAL REQUESTING FIELD VERIFICATION OF EXISTING CONDITIONS OR DIMENSIONS.

#### **OPEN WEB STEEL BAR JOISTS:**

1. OPEN-WEB STEEL JOISTS SHALL BE ENGINEERED AND MANUFACTURED BY AN SJI-CERTIFIED COMPANY TO CONFORM TO THE CURRENT SJI SPECIFICATIONS AND SJI REQUIREMENTS.

2. SUBMIT SHOP DRAWINGS FOR JOIST. DESIGN, DETAIL AND INSTALL JOIST-BRIDGING IN ACCORDANCE WITH SJI REQUIREMENTS, PROVIDING X-BRIDGING AT LOCATIONS WHERE HORIZONTAL BRIDGING IS DISCONTINUOUS AND INTERRUPTED. INSTALL ADDITIONAL ROW OF BOTTOM CHORD BRIDGING AT EACH END OF JOISTS AT THE FIRST BOTTOM CHORD PANEL POINTS AS REQUIRED FOR NET WIND UPLIFT

3. BOLT OR WELD ALL JOISTS TO BEARINGS PER SJI GUIDELINES, INCLUDING BOTTOM CHORD EXTENSIONS AND CONNECTIONS AT COLUMN LINES PER SJI AND PER OSHA REQUIREMENTS. MIN JOIST SEAT WELDS SHALL BE AS FOLLOWS: K-SERIES = (2) 1/8" x 2-1/2" LONG; LH 02-06 = (2) 3/16" x 3" LONG; LH/DLH 07-17 = (2) 1/4" x

4. REINFORCE WEBS OF JOISTS WITH ADDITIONAL ANGLES FIELD-WELDED PER THE TYPICAL DETAILS AT ALL LOCATIONS WHERE POINT LOADS OCCUR BETWEEN PANEL POINTS, INCLUDING AT EDGES AND CORNERS OF CURBS & FRAMES SUPPORTING ROOF TOP EQUIPMENT.

5. PROVIDE EXTENDED ENDS FOR SUPPORT OF ROOF DECK EDGE ANGLES THROUGHOUT THE PROJECT AS MAY BE REQUIRED. PROVIDE SPECIAL SLOPED BEARING SEATS WHERE NEEDED BASED ON ROOF SLOPES SHOWN IN ACCORDANCE WITH SJI.

6. WHERE SPECIAL "SP" JOISTS ARE INDICATED, DESIGN JOISTS FOR THE FOLLOWING, BUT IN NO CASE SHALL CHORD SIZES BE LESS THAN INDICATED ON THE FRAMING PLANS:

A. UNIFORM DEAD LOAD OF 15 PSF IN ADDITION TO SELF WT. B. UNIFORM ROOF LIVE, SNOW, AND RAIN ON SNOW LOADS INDICATED IN STRUCTURAL GENERAL NOTES. C. SNOW DRIFTS AROUND PARAPETS AS INDICATED ON DRIFT LOADING

D. WIND NET UPLIFT PER WIND UPLIFT PLAN (ASD). E. SPECIAL HANGING POINT LOADS AND ROOF EQUIPMENT LOADS AS DENOTED ON THE FRAMING PLAN.

#### METAL DECK:

1. SUBMIT SHOP DRAWINGS FOR ALL METAL DECKING. A. ROOF DECK: 1.5B 22 GA (FY = 50 KSI MIN), PAINTED, MIN. FASTENING PATTERN: 36/4 WITH 3 SIDELAPS PER SPAN (UNO)

2. STEEL DECK MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE (S.D.I.). ALL METAL DECK TO BE ERECTED PER MANUFACTURER REQUIREMENTS AND SPECIFICATIONS

3. DECK SHALL BE WELDED AT SUPPORTS WITH 5/8" DIA PUDDLE WELDS MIN. AND SIDELAP CONNECTIONS SHALL BE #10 TEK SCREWS MIN (UNO).

4. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 2 SPANS MINIMUM AND SHALL BEAR 2" MINIMUM ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH THICKER GAUGE DECK TO SUPPORT ALL APPLICABLE LOADS. CONTRACTOR TO SUBMIT ALTERNATES FOR APPROVAL.

5. PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, AND OTHER ACCESSORIES AS REQUIRED FOR A PROPERLY FINISHED JOB, EVEN IF NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS AS REQUIRED TO SUPPORT METAL DECK.

6. ONE OPENING PER DECK SHEET, 6" OR LESS IN DIAMETER, IS PERMISSIBLE. HOLES LARGER THAN 6" IN DIAMETER OR MORE THAN ONE HOLE PER DECK SHEET REQUIRES REINFORCING PER SDI. HOLES LARGER THAN 12" (ROUND OR SQUARE) REQUIRE A STEEL FRAME

7. OPENINGS IN ROOF DECK TO BE FRAMED WITH L6x4x5/16 (LLV) ANGLE. EXTEND ANGLES TO STRUCTURAL SUPPORTS, BLOCK VERTICAL LEGS AND FIELD WELD. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

#### **COLD FORMED STEEL FRAMING NOTES:**

1. SUBMIT SHOP DRAWINGS AND CALCULATIONS PER THE SUBMITTAL SECTION REQUIREMENTS. SHOP DRAWINGS SHALL INCLUDE PLAN AND SECTION DETAILS TO SHOW LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING. IN ADDITION, SHOP DRAWINGS SHALL INCLUDE ALL FASTENING, ANCHOR DETAILS, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, CONNECTION DETAILS. AND ATTACHMENTS TO ADJOINING WORK

CFS DESIGN CRITERIA: -- TOP OF WALL VERTICAL DEFLECTION TO UNDERSIDE OF PRIMARY STRUCTURE

..MIN ( ½". L/360) -- EXTERIOR WALLS: WIND PRESSURE PER BUILDING DESIGN CRITERIA;H/600 FOR WALLS BRACING MASONRY; H/360 FOR WALLS SUPPORTING TILE OR METAL PANEL; H/240 FOR ALL OTHER WALLS -- INTERIOR WALLS: 5 PSF HORIZONTAL PRESSURE;H/600 FOR WALLS BRACING

MASONRY; H/360 FOR WALLS SUPPORTING TILE OR METAL PANEL; H/240 FOR ALL

OTHER WALLS. LIGHT GAUGE FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES: FY = 33 KSI FOR 18 GA AND LIGHTER MEMBERS, FY = 50 KSI FOR ALL DIAGONAL STRAP BRACING AND FOR 16 GA AND HEAVIER MEMBERS. ALL

MATERIALS, CONNECTORS, FASTENERS SHALL BE GALVANIZED CFS SUPPLIER SHALL INCLUDE AN ALLOWANCE (2% OF CFS BID PACKAGE) FOR MISC CLIPS, CONNECTORS, AND ANGLES TO ADDRESS ANY ADDITIONAL CFS ITEMS

NEEDED DURING THE SHOP DRAWING REVIEW AND CONSTRUCTION PROCESS. 2. ALL DESIGN, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL

3. ALL EXTERIOR OR LOAD BEARING INTERIOR STUDS SHALL BE 600S162-68 (6"

DEEP 14 GA) AT 16 INCHES ON CENTER MIN, UNLESS NOTED: REFER TO PLANS. 4. MINIMUM GAUGE OF STRUCTURAL STUDS SHALL BE 54 mils (16 GAUGE), UNLESS

5. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE TO PROPERLY TRANSFER IMPOSED LOADS. MINIMUM GAUGE OF TRACKS SHALL BE 43 mils (18 GAUGE). DEFLECTION TRACKS AT EXTERIOR WALL SHALL BE 16 GA

6. PROVIDE WALL STUD BRIDGING FOR EACH STUD AS RECOMMENDED BY THE MANUFACTURER. MAXIMUM SPACING SHALL BE 4'-0" CENTERS.

7. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENTS TO PERPENDICULAR MEMBER. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.

8. NOTCHES OR SPLICES IN ANY STRUCTURAL STUDS WILL NOT BE PERMITTED.

9. DO NOT NOTCH, DRILL OR CUT ANY HOLES IN LOAD BEARING STUDS FOR ELECTRICAL OR MECHANICAL EQUIPMENT: USE EXISTING FABRICATED HOLES.

10. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAUGE STEEL FRAMING WORK. TOUCH UP ALL WELDS WITH GALVANIZE COATING.

DISTANCES OF 1/2" AND MINIMUM SPACING BETWEEN SCREWS OF 3/4". 12. WHERE BACK-TO-BACK STUD COLUMNS ARE USED, ATTACH WITH #10 SCREWS

11. SCREWS IN LIGHT GAUGE FRAMING SHALL BE INSTALLED WITH MINIMUM EDGE

@ 12" OC MAX, UNO.

13. LATERAL BRACING MUST BE IN PLACE IN EACH DIRECTION BEFORE ANY LOAD IS

APPLIED TO THE WALLS & LEFT IN PLACE UNTIL THE WORK IS PERMANENTLY

#### **NON-LOAD-BEARING COLD FORMED STEEL FRAMING NOTES:**

1. METAL STUD MANUFACTURERS GENERALLY RECOMMEND HORIZONTAL BRIDGING OR STRAPPING TO BE PROPERLY INSTALLED AT 5 FT TO 6 FT OC, MECHANICALLY ATTACHED TO EACH STUD TO PREVENT DAMAGE DURING CONSTRUCTION, EVEN IF ONE SIDE OR BOTH SIDES ARE TO BE SHEATHED WITH RIGID FACING MATERIALS.

2. WHEN RIGID FACING MATERIALS ARE NOT ATTACHED TO EITHER SIDE, SUCH AS ABOVE CEILINGS, HORIZONTAL BRIDGING OR STRAPPING AT EACH FACE SHALL BE INSTALLED

3. WHERE THE TOP OF THE STUD WALLS TERMINATE AGAINST PRIMARY STRUCTURAL FRAMING, A "DEFLECTION TRACK" SHOULD BE USED TO ALLOW FOR VERTICAL MOVEMENT. ONE ROW OF THE RECOMMENDED HORIZONTAL BRIDGING SHALL BE PROPERLY INSTALLED BY MECHANICAL ATTACHMENTS TO EACH STUD AS CLOSE TO THE TOP AS POSSIBLE. ANY TEMPORARY SCREWS FROM THE TOP DEFLECTION TRACK TO THE METAL STUDS SHALL BE REMOVED AS SOON AS POSSIBLE TO ALLOW VERTICAL DEFLECTION OF THE PRIMARY FRAMING AND TO PREVENT DAMAGE TO THE STUD WALL. METAL STUDS SHOULD NEVER BE ATTACHED DIRECTLY TO HORIZONTAL STRUCTURAL FRAMING SYSTEMS WITHOUT A DEFLECTION TRACK OR VERTICALLY SLOTTED.

#### RTU CURBS:

 MECHANICAL ROOFTOP EQUIPMENT SUPPLIER SHALL SUPPLY A STRUCTURAL SUPPORT CURB (AND/OR ADAPTER) FOR THE PLENUM, OF THE SPECIFIED HEIGHT,

AS SHOWN ON THE MECHANICAL DRAWINGS. - DESIGN OF THE CURB AND ADAPTER IS A DELEGATED DESIGN SUBMITTAL EQUIPMENT SUPPLIER SHALL ENGAGE AN ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DEVELOP A DESIGN FOR THE CURB AND ADAPTER. DESIGN SHALL CONSIDER ALL CODE REQUIRED GRAVITY AND WIND LOADS. THE DESIGN SHALL INCLUDE ALL FASTENERS AND CONNECTORS REQUIRED TO ANCHOR THE CURB TO THE ROOF STRUCTURE. SUBMIT SIGNED AND SEALED ANALYSIS CALCULATIONS, DESIGN AND SHOP DRAWINGS TO MECHANICAL AND STRUCTURAL ENGINEER FOR REVIEW

2. CURB SHALL BE FABRICATED OF A MINIMUM OF 14 GA GALVANIZED STEEL.

3. CURBS SHALL BE INSULATED

8234 Robinson Street Overland Park, KS 66204 913-214-2169 stand-sei.con



Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 913.322.8886 Email: kevin@dev-inc.com

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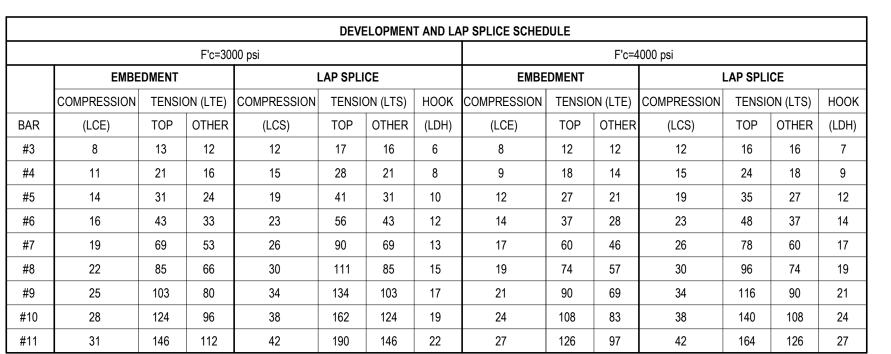
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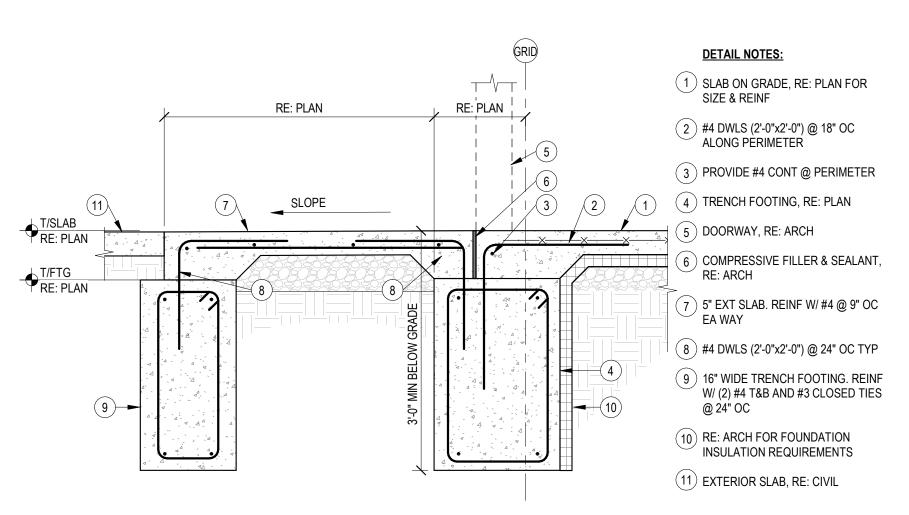
STRUCTURAL GENERAL NOTES



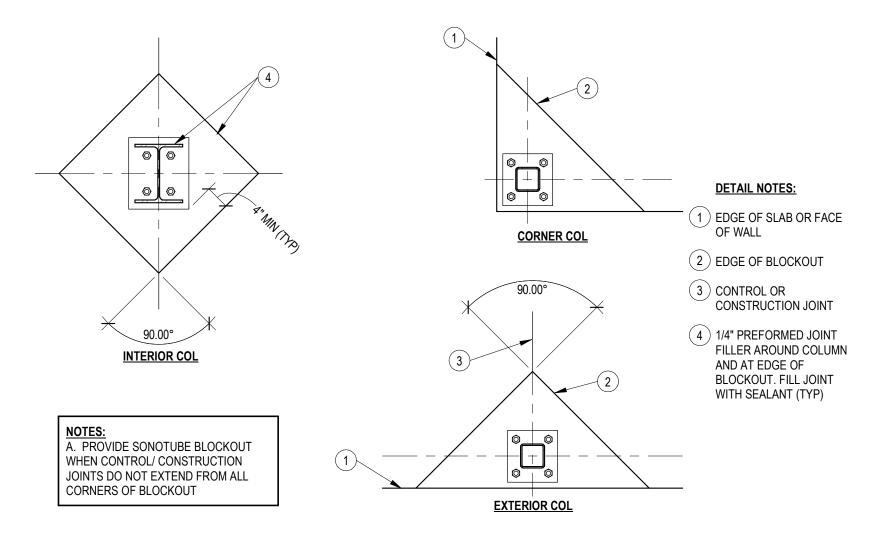
A. TOP BARS ARE HORIZONTAL BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM.

- B. ALL BARS THAT ARE NOT "TOP BARS" ARE "OTHER" BARS C. ABBREVIATIONS:
- LCE COMPRESSION EMBEDMENT LENGTH - LTE - TENSION EMBEDMENT LENGTH
- LCS COMPRESSION LAP SPLICE LENGTH - LTS - TENSION LAP SPLICE LENGTH - LDH - HOOKED BAR TENSION EMBEDMENT LENGTH
- A. STAGGER ALL SPLICES 12 db MIN, BUT NOT LESS THAN 12" B. ALL DIMENSIONS INDICATED IN TABLE ARE IN INCHES C. BARS GREATER THAN #11 SHALL BE MECHANICALLY SPLICED D. ALL SPLICES SHALL BE WIRED IN CONTACT STACKED VERTICAL
- MULTIPLIERS: ALL EMBEDMENT AND LAP SPLICE LENGTHS SHALL BE INCREASED AS REQ'D BY THE MULTIPLIERS BELOW. APPLY MULTIPLE MULTIPLIERS IF APPLICABLE
- 1.3 -- IF CONC CONTAINS LIGHT WEIGHT AGGREGATES 1.3 -- IF EPOXY COATED REBAR USED

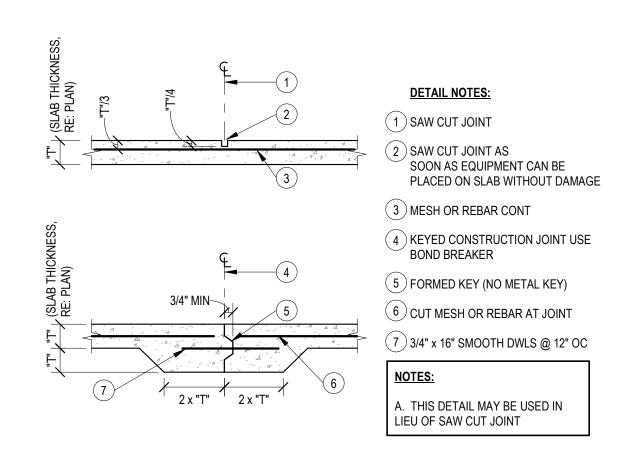
## SPLICE & DEVELOPMENT SCHEDULE 3/4" = 1'-0"



### 3 STOOP DETAIL 3/4" = 1'-0"



## SLAB ON GRADE JOINTS @ COLUMNS 3/4" = 1'-0"



### SLAB ON GRADE CONTROL JOINTS 3/4" = 1'-0"

8234 Robinson Street 8234 Robinson Street
Overland Park, KS 66204
913-214-2169
stand-sei.com

Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street

Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

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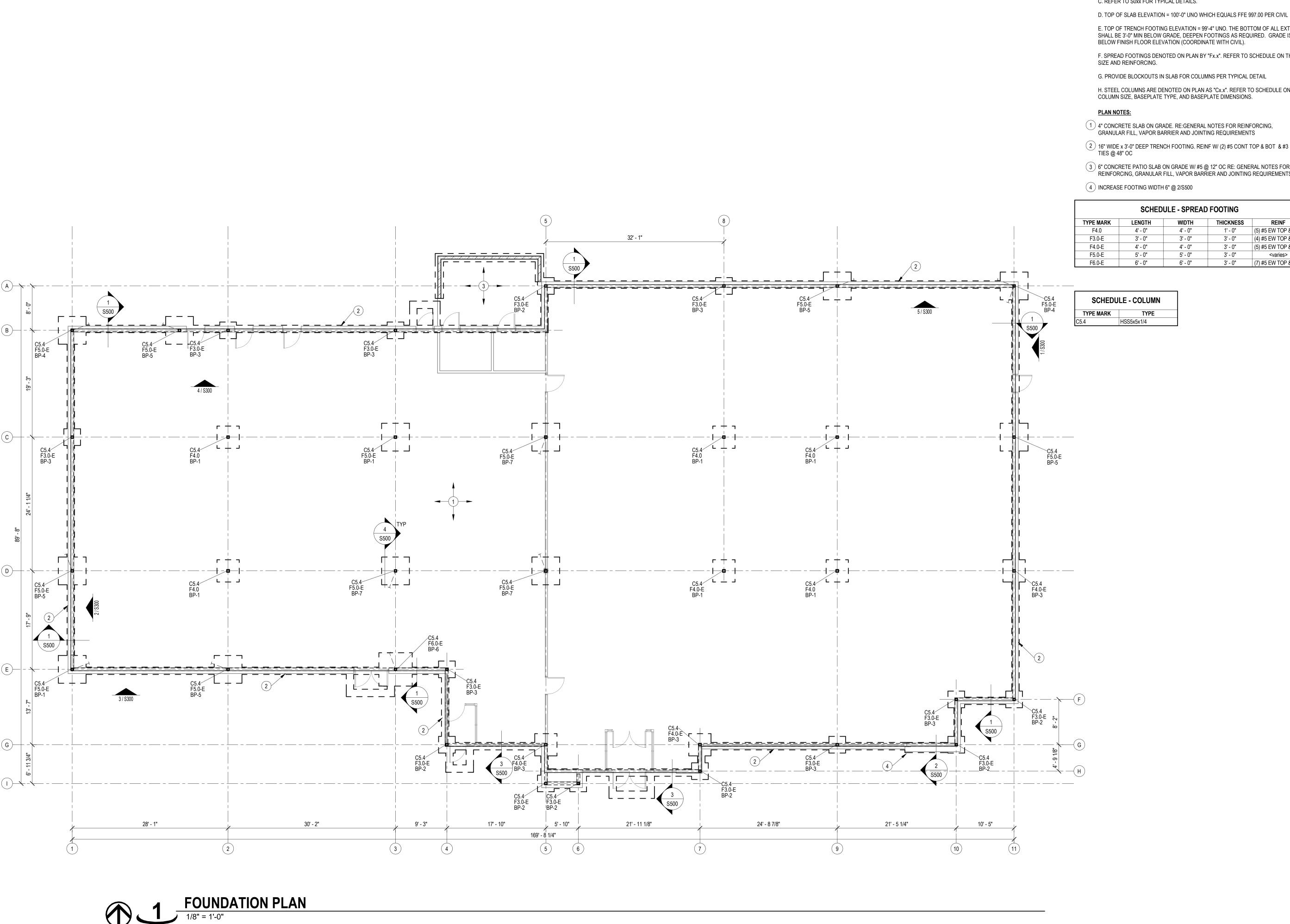
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TYPICAL DETAILS - CONCRETE





A. REFERENCE SHEET S00x FOR STRUCTURAL GENERAL NOTES. REVIEW NOTES & DETAILS FOR APPLICABILITY.

B. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.

C. REFER TO S0xx FOR TYPICAL DETAILS.

E. TOP OF TRENCH FOOTING ELEVATION = 99'-4" UNO. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MIN BELOW GRADE, DEEPEN FOOTINGS AS REQUIRED. GRADE IS GENERALLY 6" BELOW FINISH FLOOR ELEVATION (COORDINATE WITH CIVIL).

F. SPREAD FOOTINGS DENOTED ON PLAN BY "Fx.x". REFER TO SCHEDULE ON THIS SHEET FOR

G. PROVIDE BLOCKOUTS IN SLAB FOR COLUMNS PER TYPICAL DETAIL

H. STEEL COLUMNS ARE DENOTED ON PLAN AS "Cx.x". REFER TO SCHEDULE ON THIS SHEET FOR COLUMN SIZE, BASEPLATE TYPE, AND BASEPLATE DIMENSIONS.

- 1) 4" CONCRETE SLAB ON GRADE. RE:GENERAL NOTES FOR REINFORCING, GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS
- 2 16" WIDE x 3'-0" DEEP TRENCH FOOTING. REINF W/ (2) #5 CONT TOP & BOT & #3
- 3 6" CONCRETE PATIO SLAB ON GRADE W/ #5 @ 12" OC RE: GENERAL NOTES FOR REINFORCING, GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS
- (4) INCREASE FOOTING WIDTH 6" @ 2/S500

	SCHEDULE - SPREAD FOOTING			
TYPE MARK	LENGTH	WIDTH	THICKNESS	REINF
F4.0	4' - 0"	4' - 0"	1' - 0"	(5) #5 EW TOP & BOT
F3.0-E	3' - 0"	3' - 0"	3' - 0"	(4) #5 EW TOP & BOT
F4.0-E	4' - 0"	4' - 0"	3' - 0"	(5) #5 EW TOP & BOT
F5.0-E	5' - 0"	5' - 0"	3' - 0"	<varies></varies>
F6.0-E	6' - 0"	6' - 0"	3' - 0"	(7) #5 EW TOP & BOT

SCHEDULE - COLUMN		
TYPE MARK	TYPE	
5.4	HSS5x5x1/4	





Dev Anand President & CEO

Kevin Campbell Senior Architect

8807 Monrovia Street

Fax: 913.322.8886

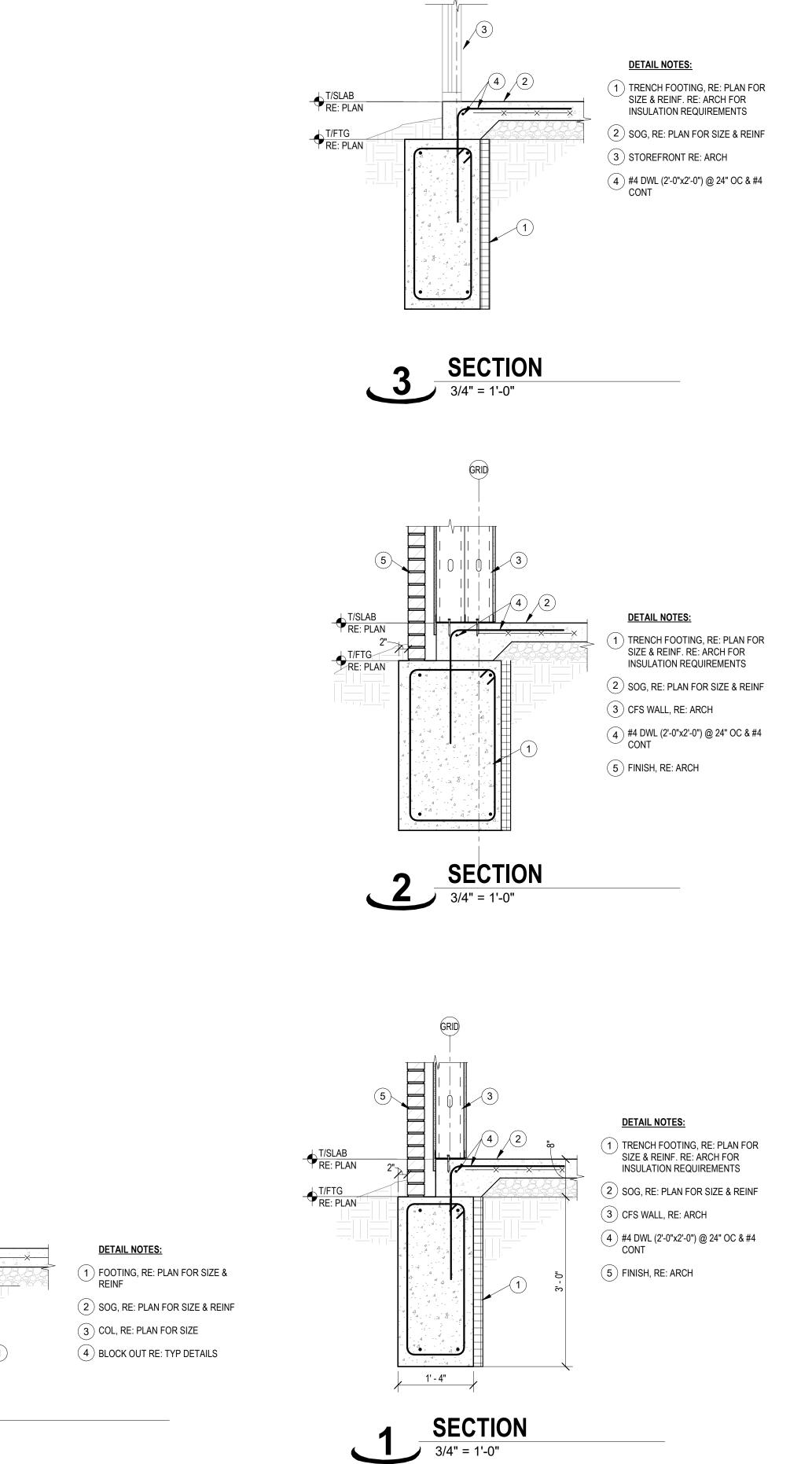
Lenexa, Kansas 66215 Phone: 913.322.8882

Email: kevin@dev-inc.com

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FOUNDATION PLAN



4

INTERIOR MASS FTG

3/4" = 1'-0"

T/SLAB RE: PLAN

T/FTG\_\_\_\_ RE: PLAN



Dev Anand President & CEO

Kevin Campbell

Senior Architect

8807 Monrovia Street Lenexa, Kansas 66215

Phone: 913.322.8882 Fax: 913.322.8886 Email: kevin@dev-inc.com

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ASSOCIATED

JOHN
E. FUNK
NUMBER
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REVISION

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FOUNDATION SECTIONS