LEE'S SUMMIT LOGISTICS 431K SPEC BUILDING

NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO
64086
11.02.22

BUILD OUT CONSTRUCTION SET

DRAWINGS INDEX
BUILD OUT

CIVIL - BUILD OUT

C4.01	DIMENSION PLAN
C4.02	DIMENSION PLAN
C5.01	GRADING PLAN
C5.02	GRADING PLAN
C5.05	GRADING DETAIL
L1.01	LANDSCAPE PLAN
L1.02	LANDSCAPE PLAN

ARCHITECTURAL - BUILD OUT

A108	ENLARGED LIFE SAFETY PLAN
A109	1ST FLOOR PLAN BUILD OUT
A110	ENLARGED FLOOR PLANS
A111	ENLARGED FLOOR PLANS
A112	OVERALL REFLECTED CEILING PLAN
A113	ENLARGED REFLECTED CEILING PLANS
A504	SECTIONS & DETAILS
A505	SECTIONS & DETAILS
A602	INTERIOR DOOR SCHEDULE
A603	FINISH SCHEDULE
A701	EXTERIOR ENCLOSURE
A702	COMPACTOR ENCLOSURE

STRUCTURAL - BUILD OUT

S0.0	GENERAL NOTES
S0.1	GENERAL NOTES
S1.0	OVERALL FOUNDATION PLAN
S1.1	ENLARGED PARTIAL FOUNDATION PLAN
S1.2	ENLARGED MEZZANINE ROOF FRAMING PLAN
S2.0	OVERALL FRAMING PLAN
S2.1	ENLARGED PARTIAL FRAMING PLAN
S2.2	ENLARGED PARTIAL FRAMING PLAN
S2.3	ENLARGED PARTIAL FRAMING PLAN
S2.4	ENLARGED PARTIAL FRAMING PLAN
S3.0	FOUNDATION DETAILS
S3.1	FRAMING DETAILS
S3.2	FOUNDATION DETAILS
S4.0	FRAMING DETAILS
S4.1	FRAMING DETAILS
S4.2	FRAMING DETAILS

MECHANICAL - BUILD OUT

M1.1	OVERALL MECHANICAL FLOOR PLAN
M1.2	ENLARGED MECHANICAL FLOOR PLANS
M1.3	ENLARGED MECHANICAL FLOOR PLANS
M1.4	MECHANICAL DETAILS
M1.5	MECHANICAL DETAILS
M1.6	MECHANICAL DETAILS
M1.7	OVERALL MECHANICAL FLOOR PLAN
M2.1	SPECIFICATIONS & DETAILS
M3.1	MECHANICAL SCHEDULES

PLUMBING - BUILD OUT

P0.0	PLUMBING SPECIFICATIONS
P1.0	PLUMBING PLAN
P1.1	COMPRESSED AIR PLAN
P1.2	ENLARGED PLUMBING PLANS
P2.0	PLUMBING SCHEDULES AND DETAILS
P2.1	PLUMBING RISERS
P106	PLUMBING SPECIFICATIONS

ELECTRICAL - BUILD OUT

E1.0	WAREHOUSE LIGHTING
E1.1	OFFICE LIGHTING
E2.0	WAREHOUSE POWER
E2.1	OFFICE POWER
E3.0	HVAC POWER
E3.1	OFFICE HVAC
E4.0	SITE
E5.0	RISER
E6.0	PANEL SCHEDULE
E6.1	PANEL SCHEDULE

FIRE PROTECTION - BUILD OUT

FP0.0	SYSTEM NOTES
FP1.0	HYDRAULIC SITE PLAN
FP2.0	OVERHEAD PIPING LAYOUT
FP2.1.1	AREA 1: SYSTEMS 01-02
FP2.1.2	AREA 1 (CONT): SYSTEMS 01-02
FP2.2.1	AREA 2: SYSTEMS 02-03
FP2.2.2	AREA 2 9CONT): SYSTEMS 02-03
FP2.3.1	AREA 3: SYSTEMS 03-04
FP2.3.2	AREA 3 (CONT): SYSTEMS 03-04
FP2.4	AREA 4: SYSTEM 05
FP2.5	AREA 5: SYSTEM 06
FP2.6	AREA 6: SYSTEM 07
FP2.7.1	AREA 7: SYSTEMS 08-09
FP2.7.2	AREA 7 (CONT): SYSTEMS 08-09
FP2.8.1	AREA 8: SYSTEMS 09-10
FP2.8.2	AREA 8 (CONT): SYSTEMS 09-10
FP2.9.1	AREA 9: SYSTEMS 10-11
FP2.9.2	AREA 9 (CONT): SYSTEMS 10-11
FP2.10	TENANT IMPROVEMENT OFFICE PLAN
FP2.11	TENANT IMPROVEMENT COOLER PLAN
FP3.0	FIRE PUMP & RISER DETAIL

OWNER
SCANNELL PROPERTIES
8801 RIVER CROSSING BLVD. SUITE 300
INDIANAPOLIS, IN 46240
O : 317 . 218 . 1648

CIVIL ENGINEER
OLLSON
7301 W. 133RD ST. SUITE 200
OVERLAND PARK, KS 66213
O : 913 . 381 . 1170

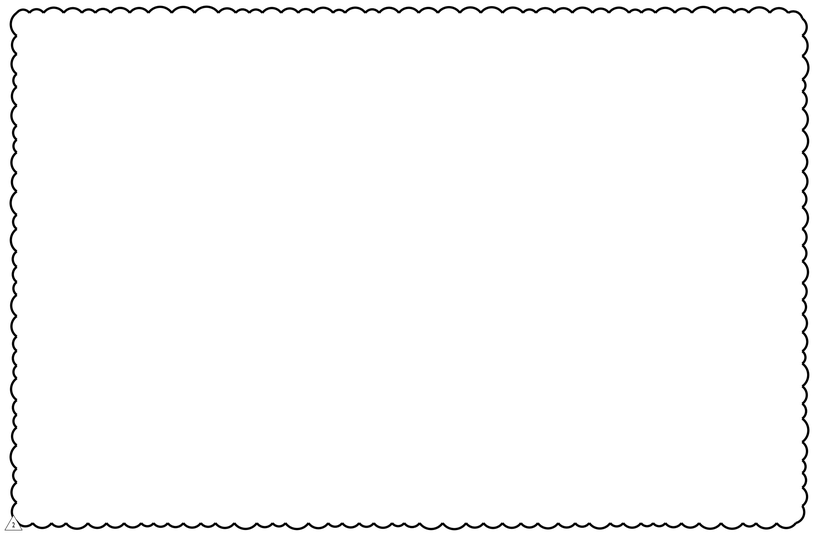
ARCHITECT
CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O : 317 . 288 . 0681
CONTACT : SHAWN CURRAN

STRUCTURAL ENGINEER
WALLACE DESIGN COLLECTIVE
1741 McGEE STREET
KANSAS CITY, MO 64108
O : 816 . 421 . 8282

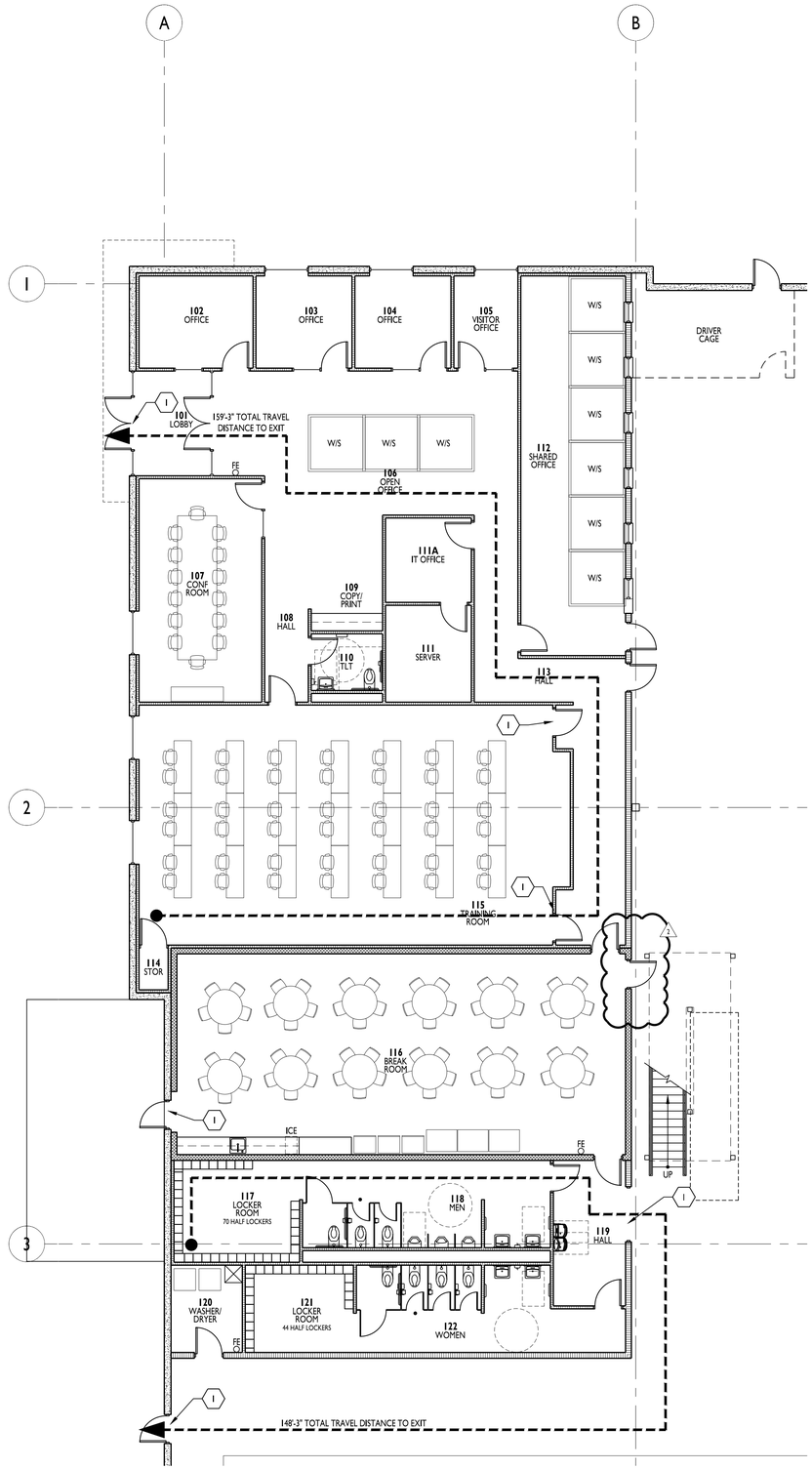
CONTRACTOR
KADEAN CONSTRUCTION
1821 McGEE STREET
KANSAS CITY, MO 64108
O : 816 . 708 . 1199

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

LEE'S SUMMIT LOGISTICS 431K SPEC
210300



ENLARGED LIFE SAFETY PLAN 2
1/8" = 1'-0"



ENLARGED LIFE SAFETY PLAN 1
1/8" = 1'-0"

KEYED NOTES

1. EXIT, EXIT SIGN, AND EMERGENCY LIGHTING ABOVE DOOR INTERIOR WITH BATTERY BACKUP. EXTERIOR EGRESS LIGHTING ABOVE DOOR TIED TO BATTERY BACK UP.
2. FINAL QUANTITY AND LOCATIONS TO BE DETERMINED WITH FINAL RACKING PLAN AND FIRE DEPARTMENT REVIEW.

CODE ANALYSIS

APPLICABLE CODES

BUILDING CODE
2018 INTERNATIONAL BUILDING CODE

PLUMBING CODE
2017 INTERNATIONAL PLUMBING CODE

ELECTRICAL CODE
2017 NATIONAL ELECTRICAL CODE

FIRE CODE
2018 INTERNATIONAL FIRE CODE

MECHANICAL CODE
2018 INTERNATIONAL MECHANICAL CODE

FUEL GAS CODE
2018 FUEL GAS CODE

HANDICAPPED ACCESSIBILITY CODE
2009 ANSI A117.1
ADA ACCESSIBILITY GUIDELINES

OCCUPANCY (OVERALL BUILDING)

CLASSIFICATION (302.1):	S-1

OCCUPANCY (TENANT SPACE)

CLASSIFICATION (302.1):	S-1
ACCESSORY USES (508.2.1):	B
NON-SEPARATED USES (508.3.2):	N/A
SEPARATED USES (508.3.3):	N/A

AUTOMATIC SPRINKLER SYSTEM

SPRINKLER SYSTEM REQUIRED (903):	YES
SPRINKLER SYSTEM PROVIDED:	YES / ESFR

ALLOWABLE BUILDING HEIGHT

TABULAR HEIGHT (503):	2 STORY

ALLOWABLE BUILDING AREA

TABULAR AREA (503):	17,500 SF

BUILDING AREA INCREASE

INCREASE FOR SPRINKLERED BUILDING (506.3):	300%
UNLIMITED AREA (507):	UNLIMITED
FRONTAGE INCREASE (506.2):	N/A
If = (F/P - .25) x W / 30	
TOTAL ALLOWABLE AREA WITH INCREASES:	UNLIMITED
As = At + (At x If) + (At x Is)	
As = FILL IN	

ACTUAL BUILDING HEIGHT AND AREA

BUILDING AREA:	433,301 SF
BUILDING HEIGHT (FEET / # FLOORS):	45'-6" / 1 FLR

TABULAR OCCUPANT LOAD (1004.1.2)

OCCUPANT LOAD FACTOR:	1 / 500

ACTUAL OCCUPANT LOAD (1004.1.2)

SQUARE FOOTAGE / OCCUPANT LOAD FACTOR:	433301 / 500
TOTAL OCCUPANTS:	867

FIRE RESISTIVE REQUIREMENTS (601 AND 602)

CONSTRUCTION TYPE:	II-B
STRUCTURAL FRAME:	NR
EXTERIOR BEARING WALLS:	NR
INTERIOR BEARING WALLS:	NR
EXTERIOR NON-BEARING WALLS:	NR
INTERIOR NON-BEARING WALLS	NR
FLOOR CONSTRUCTION:	NR
ROOF CONSTRUCTION:	NR
SHAFTS:	N/A

FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 602)

RATED EXTERIOR WALLS:	N/A
FIRE SEPARATION DISTANCE	60' +
UNPROTECTED OPENING AREA:	N/A

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (803)

SEE FINISH SCHEDULE FOR MATERIALS
ALL MATERIALS ARE CLASS A RATED

FIRE PROTECTION SYSTEMS

STANDPIPE SYSTEM (905):	YES
PORTABLE FIRE EXTINGUISHERS (906.1):	BY TENANT
FIRE ALARM AND DETECTION SYSTEMS (907):	YES
SMOKE CONTROL SYSTEMS (909):	N/A
SMOKE AND HEAT VENTS (910):	N/A

EGRESS

MINIMUM WIDTH FACTOR (1005.1):	0.15
REQUIRED MINIMUM WIDTH FROM SPACE (1005.1):	130.05"
MINIMUM NUMBER OF EXITS (1015):	3
ACTUAL NUMBER OF EXITS:	20
ACTUAL WIDTH OF EXITS:	792"
ALLOWABLE TRAVEL DISTANCE (1016.2):	400'
CORRIDOR CONSTRUCTION (1018.1):	NR
MINIMUM CORRIDOR WIDTH (1018.2):	44"
MAXIMUM DEAD END CORRIDOR (1018.4):	20'

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL
PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

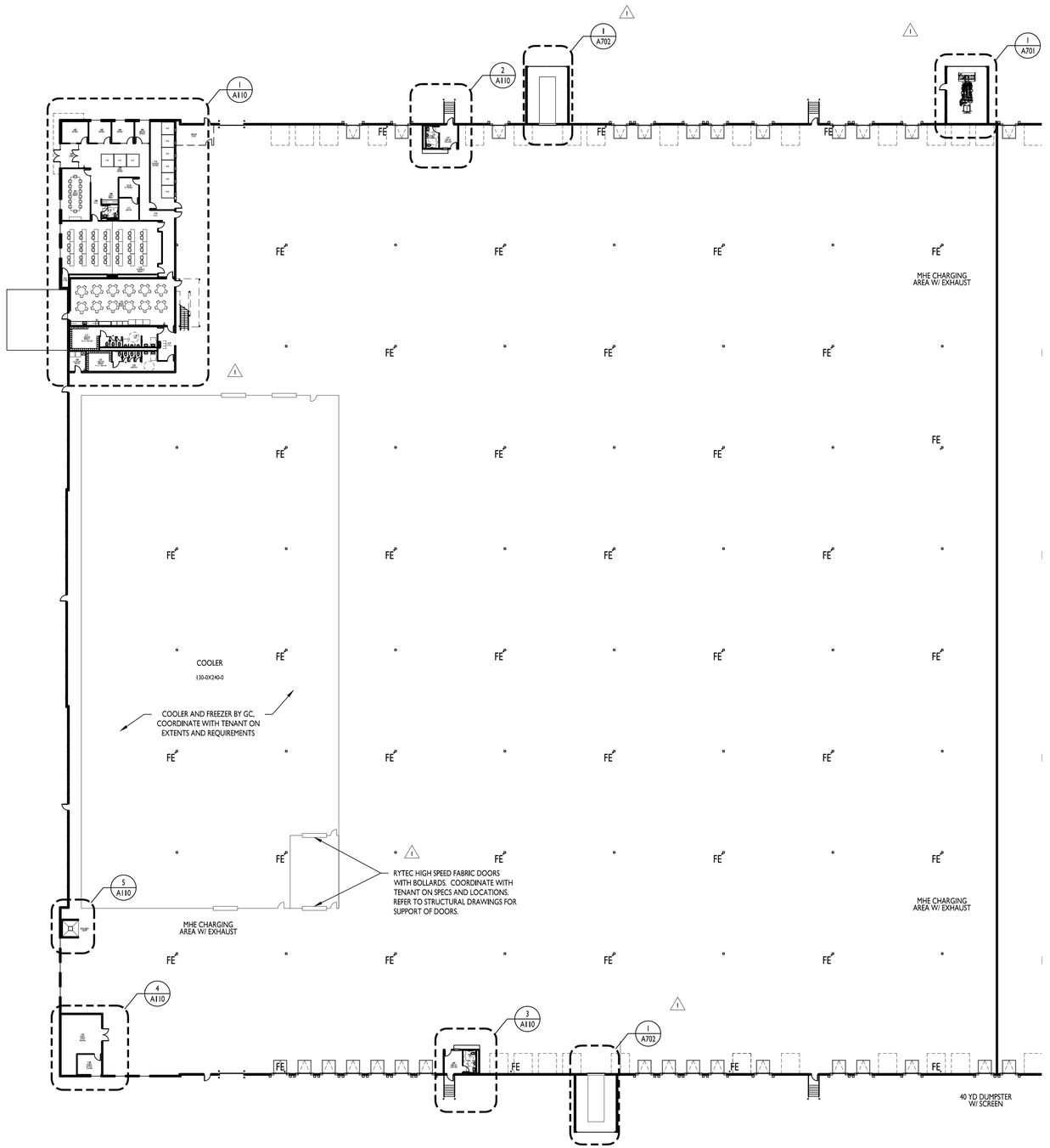
ISSUE DATES

	PERMIT SET	02.18.22
1	PERMIT COMMENTS	10.24.22
2	VE REVISIONS	12.20.22

210300

ENLARGED LIFE SAFETY PLANS

A108



1st FLOOR PLAN 1 — 1" = 30'

N

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/09/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS	06.14.22
2	PERMIT COMMENTS	10.24.22

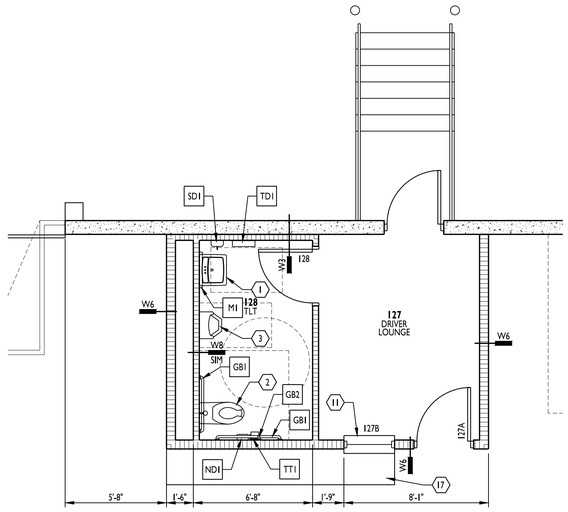
210300

1st FLOOR PLAN
BUILD OUT

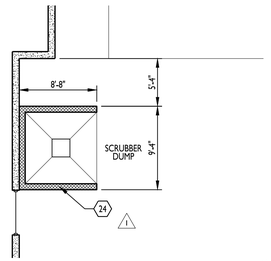
A109

TOILET ACCESSORY SCHEDULE

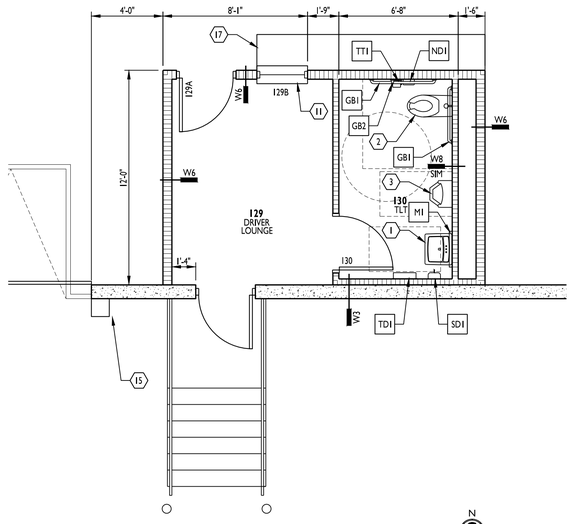
MARK	SYMBOL	MFR #	DESCRIPTION
TTI		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GBI		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2		BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TDI		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SDI		BOBRICK B-2112	SOAP DISPENSER
NDI		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE, MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI		GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR



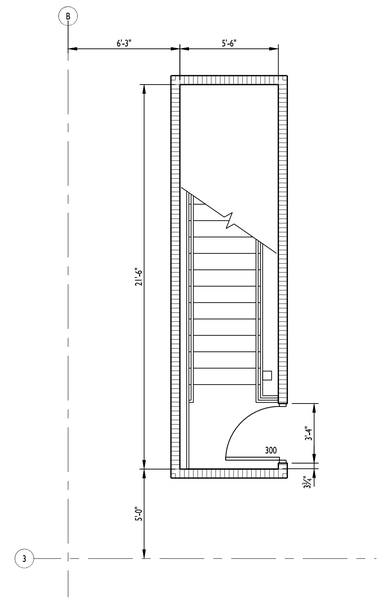
OUTBOUND DRIVER LOUNGE 2 — 1/4" = 1'-0"



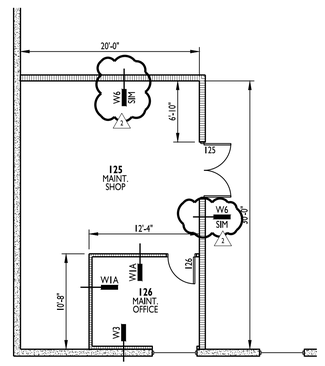
ENLARGED FLOOR PLAN 5 — 1/8" = 1'-0"



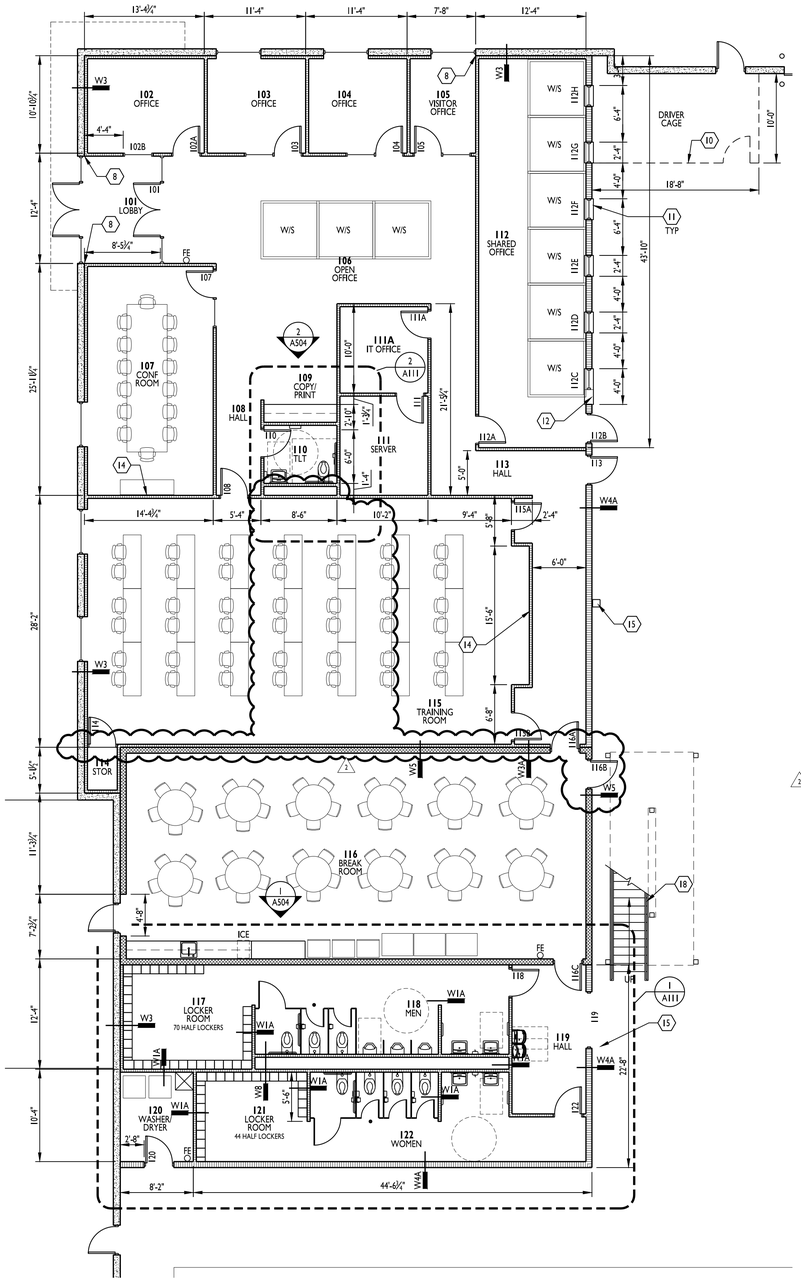
INBOUND DRIVER LOUNGE 3 — 1/4" = 1'-0"



PENTHOUSE FLOOR PLAN 6 — 1/4" = 1'-0"



ENLARGED FLOOR PLAN 4 — 1/8" = 1'-0"



1st FLOOR PLAN 1 — 1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

B. ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.

C. PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.

D. PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.

E. PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.

F. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.

G. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.

H. ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.

I. PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.

J. PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC., COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.

K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.

L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.

M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

KEYED NOTES

1. ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
2. ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
3. ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
4. STANDARD HEIGHT WALL MOUNT FLUSH VALVE TOILET. CENTER IN WIDTH OF STALL.
5. STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
6. WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
7. ADA COMPLIANT HI-LO WATER FOUNTAIN.
8. ALIGN FINISH FACE OF WALL, BOTH SIDES.
9. WASHER & DRYER.
10. 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
11. PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL.
12. PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504. CENTER ON WIDTH OF WALL.
13. NOT USED.
14. PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
15. STRUCTURAL STEEL COLUMN.
16. HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
17. WALL MOUNT SHELF. REFER TO 5/A504.
18. STEEL STAIRS, PAINT SAFETY YELLOW. REFER TO 1/A505.
19. 2' x 2' MOP SINK w/ WALL MOUNT FAUCET.
20. NOT USED.
21. BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
22. ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL.
23. NOT USED.
24. 4' TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
25. FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
26. PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
City's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS	06.14.22
2	VE REVISIONS	12.20.22

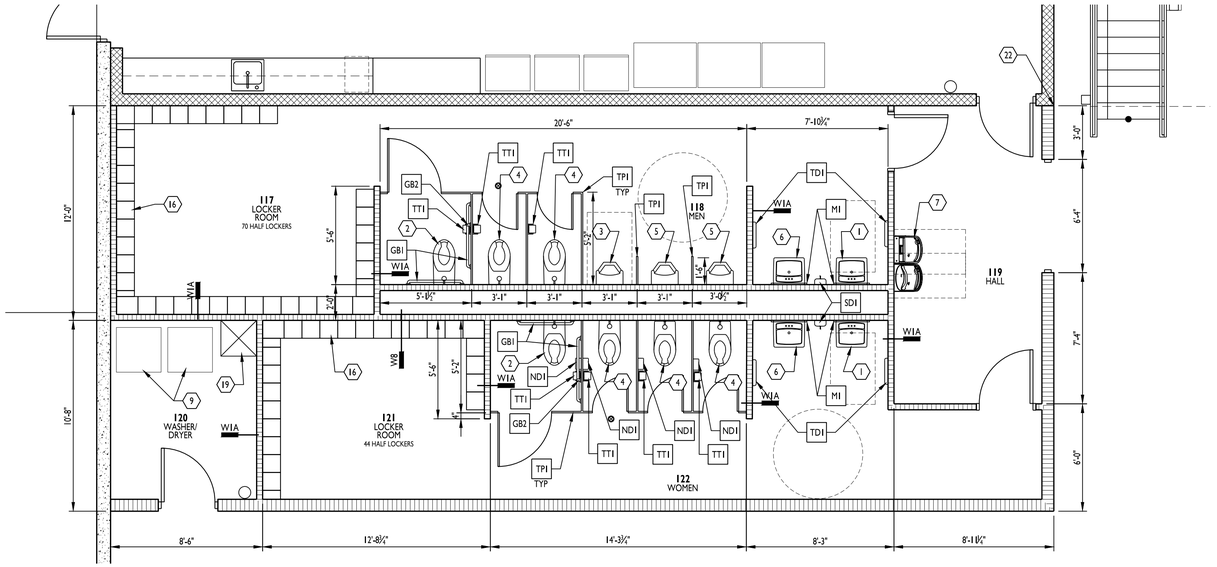
210300

ENLARGED FLOOR PLANS

A110

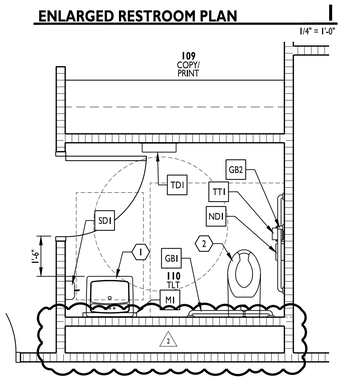
TOILET ACCESSORY SCHEDULE

MARK	SYMBOL	MFR #	DESCRIPTION
TTI		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GBI		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2		BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TDI		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SDI		BOBRICK B-2112	SOAP DISPENSER
NDI		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE, MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI		GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR



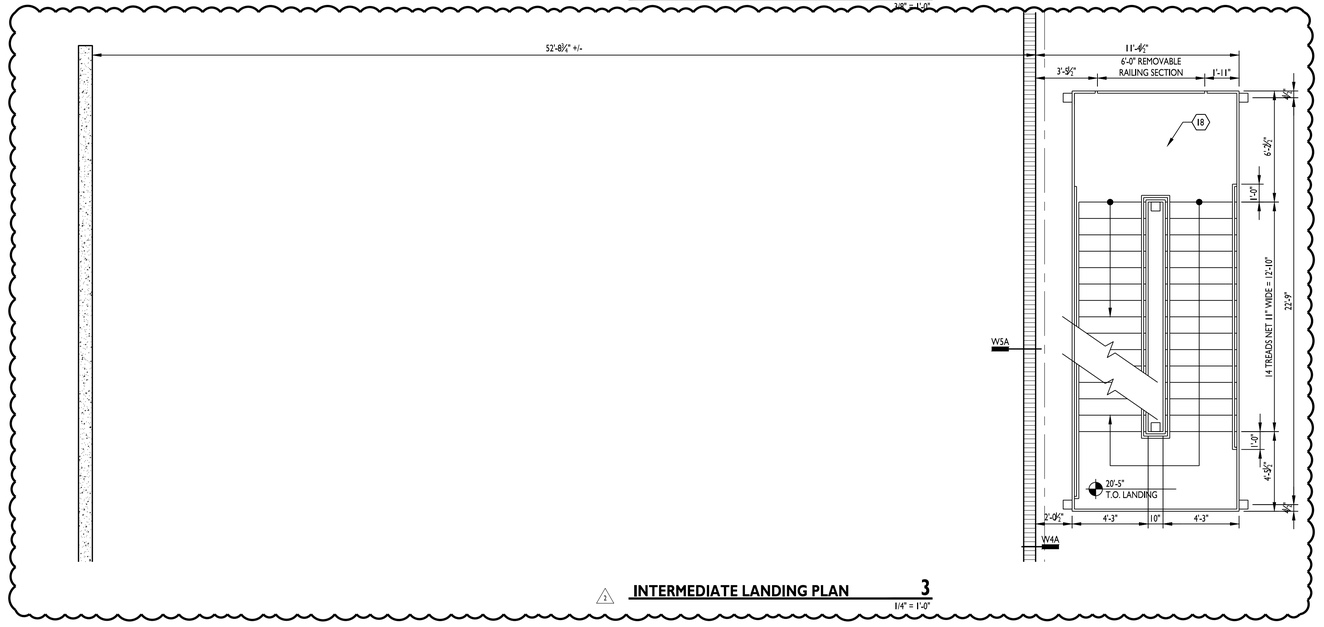
ENLARGED RESTROOM PLAN 1

1/4" = 1'-0"



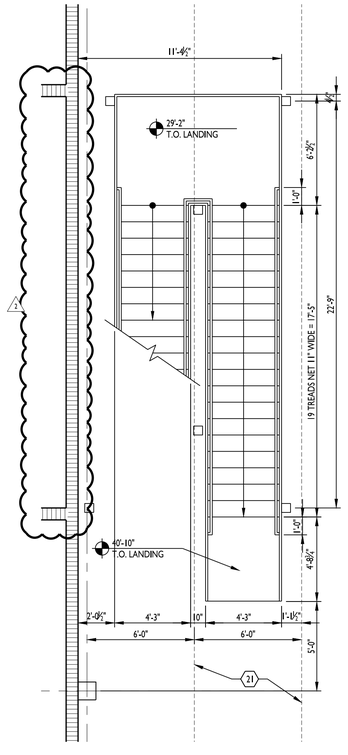
ENLARGED RESTROOM PLAN 2

3/8" = 1'-0"



INTERMEDIATE LANDING PLAN 3

1/4" = 1'-0"



UPPER STAIR PLAN 4

1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

B. ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.

C. PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.

D. PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.

E. PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.

F. REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.

G. REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.

H. ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.

I. PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.

J. PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC., COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.

K. ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.

L. UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.

M. ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009

KEYED NOTES

1. ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
2. ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
3. ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
4. STANDARD HEIGHT WALL MOUNT FLUSH VALVE TOILET. CENTER IN WIDTH OF STALL.
5. STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
6. WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
7. ADA COMPLIANT HI-LO WATER FOUNTAIN.
8. ALIGN FINISH FACE OF WALL, BOTH SIDES.
9. WASHER & DRYER.
10. 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
11. PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL
12. PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504. CENTER ON WIDTH OF WALL
13. NOT USED.
14. PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
15. STRUCTURAL STEEL COLUMN.
16. HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
17. WALL MOUNT SHELF. REFER TO S/A504.
18. STEEL STAIRS, PAINT SAFETY YELLOW. REFER TO 1/A505.
19. 2' x 2' MOP SINK w/ WALL MOUNT FAUCET.
20. NOT USED.
21. BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
22. ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL.
23. NOT USED.
24. 4" TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
25. FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
26. PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
City's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

	PERMIT SET	02.18.22
1	PERMIT COMMENTS	10.24.22
2	VE REVISIONS	12.20.22

210300

ENLARGED FLOOR PLANS

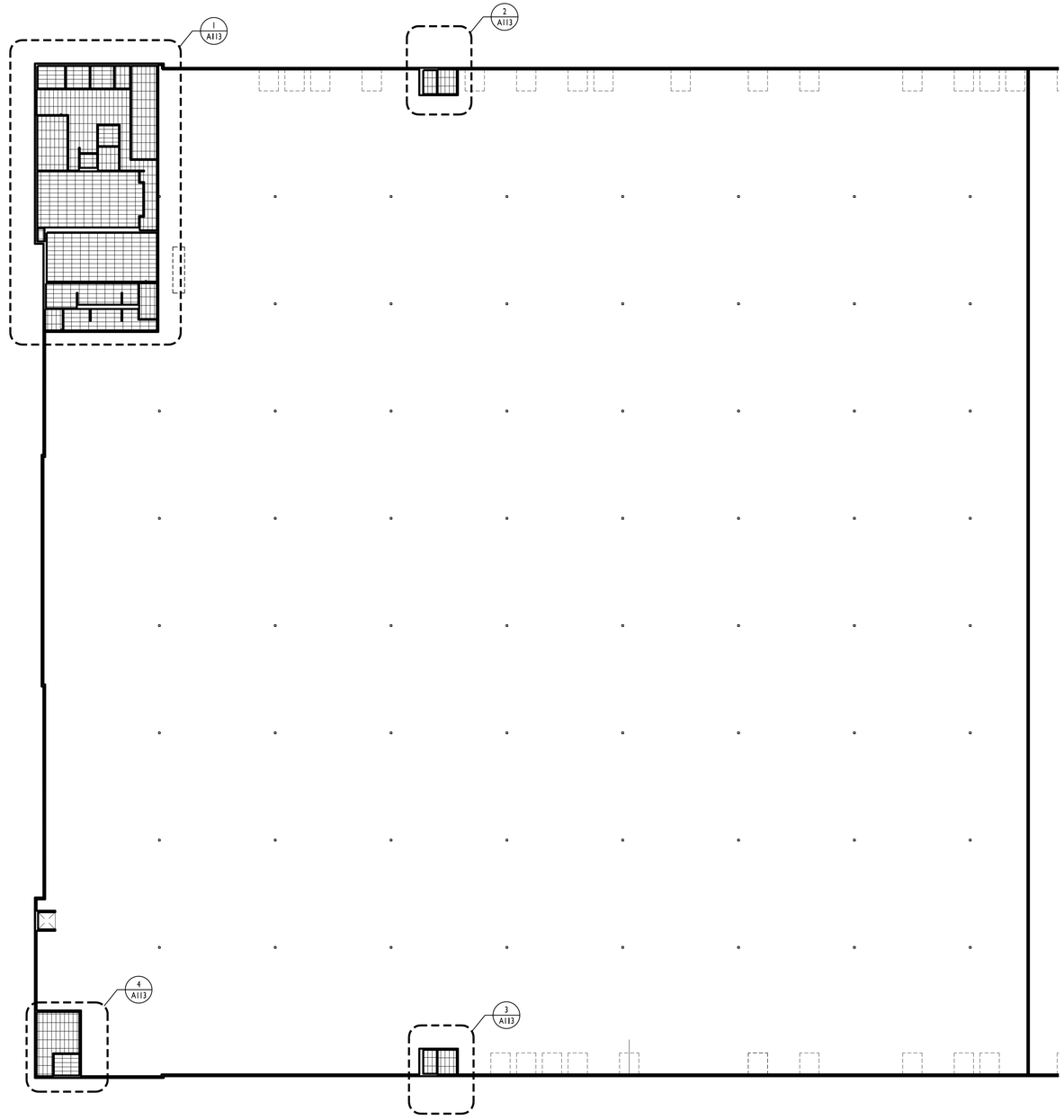
A111

CEILING LEGEND

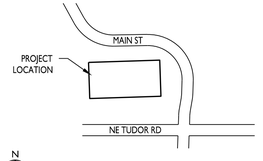
(NOT ALL MAY APPLY)

ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH SCHEDULE FOR TYPE AND HEIGHT.

GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.



REFLECTED CEILING PLAN — 1" = 30'



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22

210300

OVERALL REFLECTED CEILING PLAN

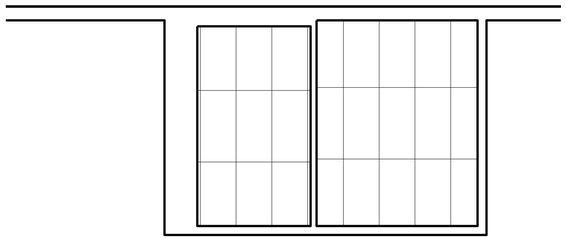
A112

CEILING LEGEND

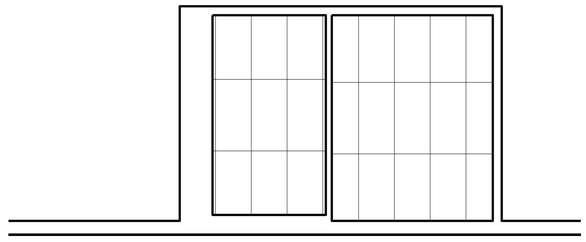
(NOT ALL MAY APPLY)

ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH SCHEDULE FOR TYPE AND HEIGHT.

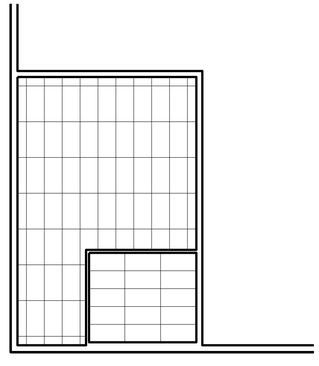
GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.



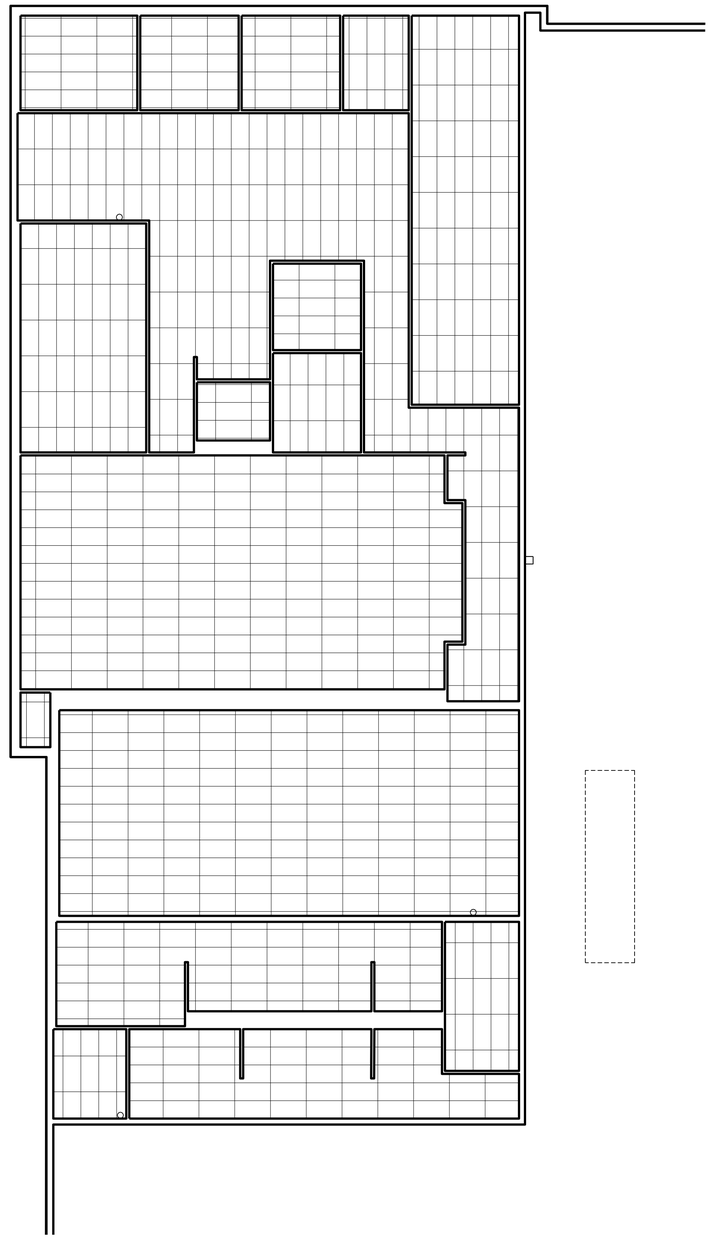
ENLARGED REFLECTED CEILING PLAN 2
1/4" = 1'-0"



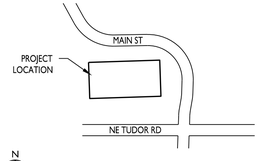
ENLARGED REFLECTED CEILING PLAN 3
1/4" = 1'-0"



ENLARGED REFLECTED CEILING PLAN 4
1/8" = 1'-0"



ENLARGED REFLECTED CEILING PLAN 1
1/8" = 1'-0"



KEY PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

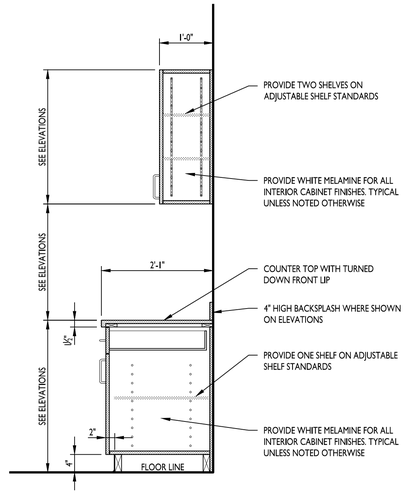
ISSUE DATES

PERMIT SET	02.18.22

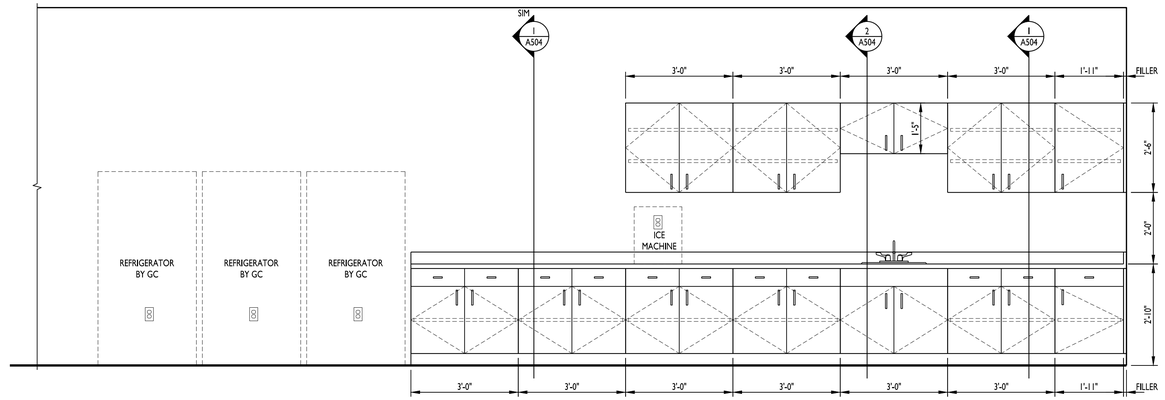
210300

ENLARGED REFLECTED CEILING PLANS

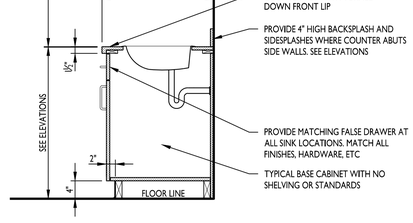
A113



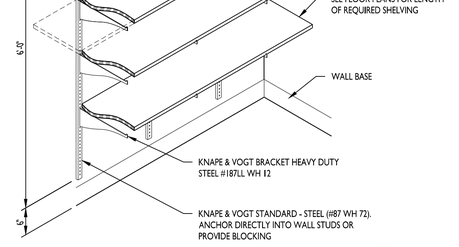
CASEWORK SECTION 1
3/4" = 1'-0"



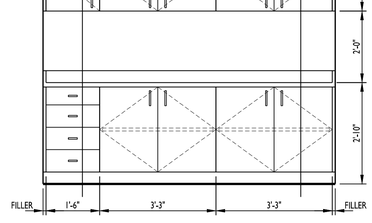
CASEWORK ELEVATION 1
1/2" = 1'-0"



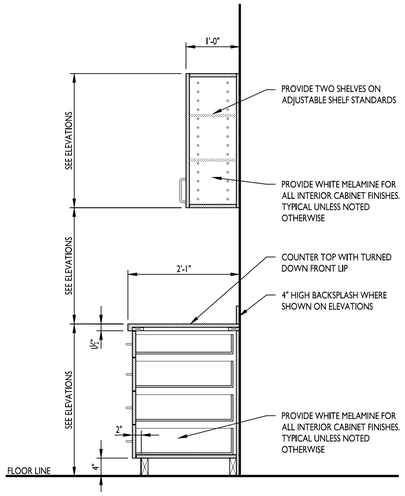
CASEWORK SECTION 2
3/4" = 1'-0"



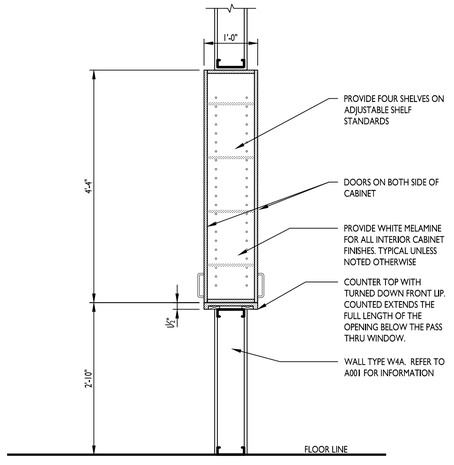
ADJUSTABLE SHELVING 5
3/4" = 1'-0"



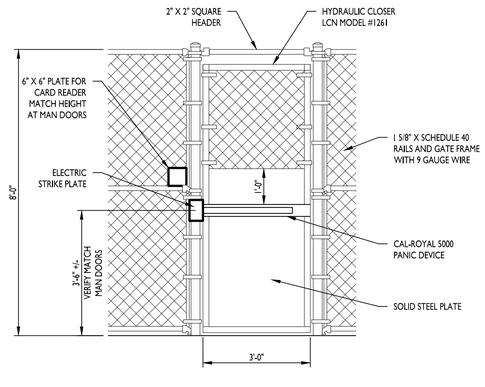
CASEWORK ELEVATION 2
1/2" = 1'-0"



CASEWORK SECTION 3
3/4" = 1'-0"



PASS-THRU CABINET SECTION 6
3/4"" = 1'-0"



GATE DETAIL 4
1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/09/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

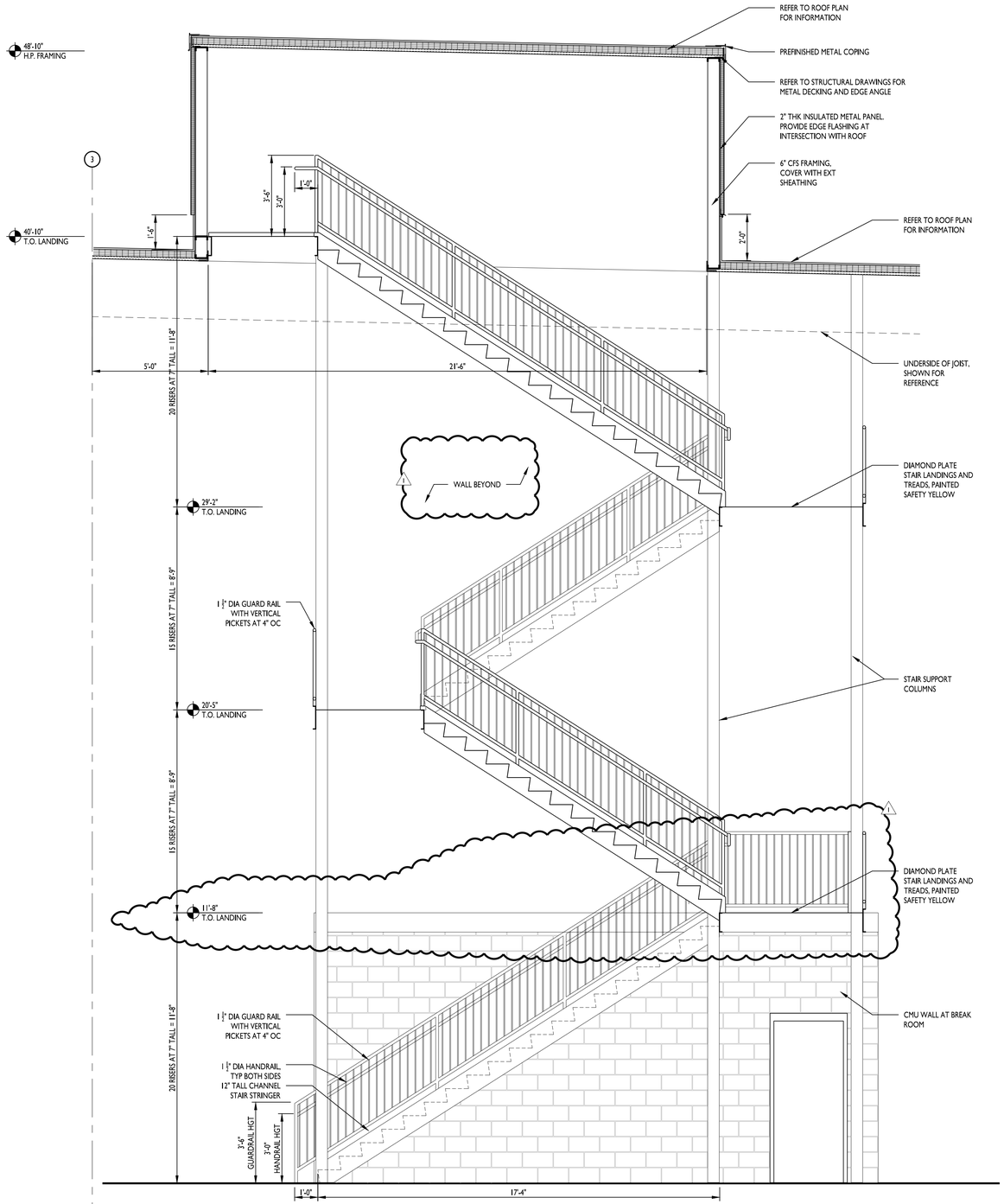
ISSUE DATES

PERMIT SET	02.18.22

210300

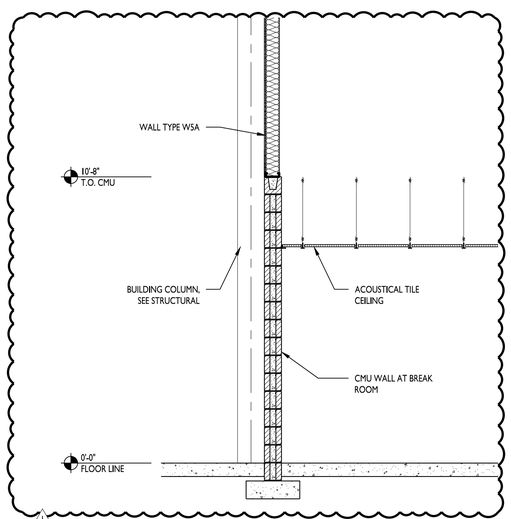
SECTIONS AND DETAILS

A504



SECTION 4

3/8" = 1'-0"



SECTION 4

3/8" = 1'-0"

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

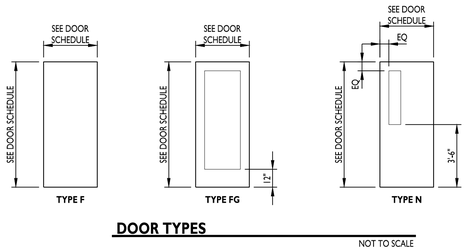
ISSUE DATES

	PERMIT SET	02.18.22
1	VE REVISIONS	12.20.22

210300

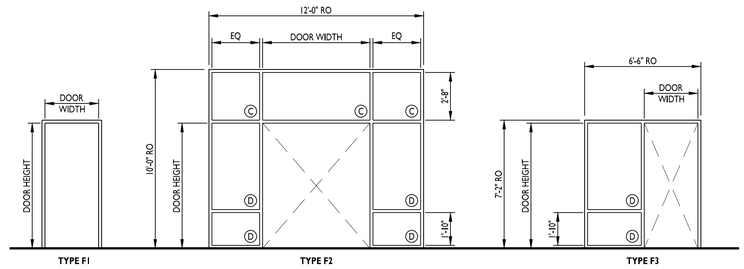
SECTIONS AND DETAILS

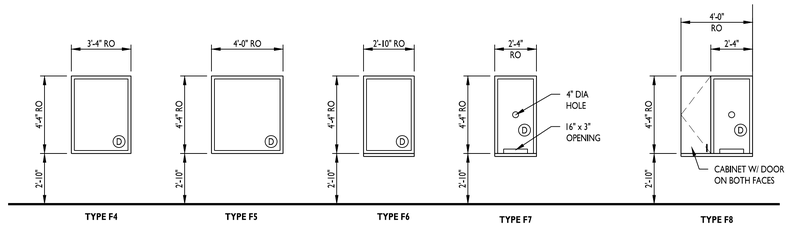
A505



DOOR TYPES

NOT TO SCALE





FRAME TYPES

NOT TO SCALE

DOOR SCHEDULE

MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
101	FG	(2) 3-0 x 7-0	SCWD	D	PRE-FIN	-	F2	KD	PAINT	-	7	
102A	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F1	KD	PAINT	-	4	
102B	-	-	-	-	-	-	F4	KD	PAINT	-	-	
103	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	4	
104	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	4	
105	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3 (OH)	KD	PAINT	-	4	
107	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	5	
108	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
110	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	6	
111	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	9	
111A	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	4	
112A	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	8	
112B	N	3-0 x 7-0	HM	D	PAINT	-	F1	KD	PAINT	-	9	
112C	-	-	-	-	-	-	F8	KD	PAINT	-	-	
112D	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112E	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112F	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112G	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112H	-	-	-	-	-	-	F7	KD	PAINT	-	-	
113	N	3-0 x 7-0	HM	D	PAINT	-	F1	KD	PAINT	-	9	
114	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	4	
115A	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
115B	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
116A	N	3-0 x 7-0	SCWD	D	PRE-FIN	-	F1 W/ 4" HEAD	HM	PAINT	-	9	
116B	N	3-0 x 7-0	HM	D	PAINT	-	F1 W/ 4" HEAD	HM	PAINT	-	10	
116C	N	3-0 x 7-0	HM	D	PAINT	-	F1 W/ 4" HEAD	HM	PAINT	-	10	
118	F	3-0 x 7-0	HM	-	PAINT	-	F1	KD	PAINT	-	8	
119	-	-	-	-	-	-	F1	KD	PAINT	-	--	
120	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	8	
122	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	10	
125	F	(2)3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	11	
126	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	4	
127A	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	12	
127B	-	-	-	-	-	-	F6	KD	PAINT	-	--	
128	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	6	
129A	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	12	
129B	-	-	-	-	-	-	F6	KD	PAINT	-	--	
130	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	6	
200	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	
201	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	
1 300	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	

GENERAL DOOR AND GLAZING NOTES

A. ALL PRE-FINISHED WOOD DOORS SHALL BE SOLID CORE WITH WOOD VENEER, MARSHFIELD OR EQUIVALENT. PROVIDE FINISH SAMPLE AND DOOR CONSTRUCTION DIAGRAM FOR APPROVAL AND HARDWARE BLOCKING COORDINATION. VENEER TO BE WHITE BIRCH OR MAPLE, FREE OF DARK GRAINS UNLESS OTHERWISE NOTED.

B. WOOD DOORS SHALL ONLY BE INSTALLED IN CONDITIONED SPACE.

C. ALL HARDWARE TO BE MINIMUM 6 PIN BEST COMPATIBLE SYSTEM. COORDINATE KEYING WITH OWNER.

D. TEMPERED AND ANNEALED GLASS TO BE CLEANED PER MANUFACTURER REQUIREMENTS. NYLON CLOTH METHODS PREFERRED. DO NOT USE RAZOR BLADES ON GLASS.

E. GLASS AROUND DOORS AND IN DOORS SHALL BE TEMPERED UNLESS OTHERWISE NOTED IN ELEVATIONS.

F. ANY RATED DOORS TO HAVE LABEL INSTALLED IN JAMB.

G. ALL EXITS DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.

H. INSTALL OWNER PROVIDED ADA COMPLIANT RESTROOM SIGNAGE, VERIFY WITH ARCHITECT.

GLAZING TYPES

A. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED GREY TINTED GLASS.

B. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GLASS.

C. SECTION OF GLAZING REQUIRED TO BE 1/4" GLASS.

D. SECTION OF GLAZING REQUIRED TO BE 1/4" TEMPERED GLASS.

E. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GREY TINTED SPANDREL GLASS.

EXTERIOR GLAZING MUST MEET THE FOLLOWING SPECIFICATIONS FOR ENERGY CODE COMPLIANCE:

LOW "E" COATING
"U" VALUE - MINIMUM OF 0.28
"SHGC" VALUE - MAXIMUM OF 0.47

DOOR HARDWARE

HARDWARE SET 1
- 2 CONTINUOUS HINGES
- 2 PANIC DEVICES
- 1 PERIMETER SEAL
- 1 THRESHOLD
- 2 SWEEPS
- 2 HD CLOSERS
- 2 PULLS

FINISH: MATCH STOREFRONT

HARDWARE SET 2
- 3 BALL BEARING HINGES
- 1 PANIC DEVICE W/ LEVER
- 1 PERIMETER SEAL
- 1 THRESHOLD W/ DRAINAGE SUBSILL
- 1 SWEEP
- 1 HD CLOSER
- 1 DRIP TRIM

FINISH: US26D

HARDWARE SET 3
- 3 BALL BEARING HINGES
- 1 STOREROOM LOCKSET
- 1 PERIMETER SEAL
- 1 THRESHOLD W/ DRAINAGE SUBSILL
- 1 SWEEP
- 1 HD CLOSER
- 1 DRIP TRIM

FINISH: US26D

HARDWARE SET 4
- 3 HINGES
- 1 OFFICE LOCKSET
- 3 MUTES
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 5
- 3 HINGES
- 1 PASSAGE SET
- 3 MUTES
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 6
- 3 HINGES
- 1 PRIVACY LOCKSET
- 3 MUTES
- 1 CLOSER
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 7
- 6 HINGES
- 2 PUSH PULLS
- 2 MUTES
- 2 MAG LOCK (BY TENANT)
- 2 DOOR STOPS

FINISH: US26D

HARDWARE SET 8
- 3 HINGES
- 1 PASSAGE SET
- 3 MUTES
- 1 CLOSER
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 9
- 3 HINGES
- 1 STOREROOM LOCKSET
- 3 MUTES
- 1 CLOSER
- 1 ELECTRIC STRIKE (BY TENANT)
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 10
- 3 HINGES
- 1 PUSH PULL
- 3 MUTES
- 1 CLOSER
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 11
- 6 HINGES
- 1 OFFICE LOCKSET
- 2 MUTES
- 1 PAIR FLUSH BOLTS
- 1 DOOR STOP

FINISH: US26D

HARDWARE SET 12
- 3 HINGES
- 1 EXIT DEVICE
- 3 MUTES
- 1 CLOSER
- 1 ELECTRIC STRIKE (BY TENANT)
- 1 DOOR STOP

FINISH: US26D

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/09/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS	06.14.22

210300

INTERIOR DOOR SCHEDULE

A602

MATERIALS SCHEDULE

MARK	MATERIAL	MANUFACTURER	COLOR	PATTERN / TEXTURE	NUMBER	REMARKS
S-1	SEALED CONCRETE	ASHFORD	CLEAR	CURE-N-SEAL	--	
CPT-1	CARPET TILE	MOHAWK	TBD	UNCHARTED SOLVE II	BT416	
CPT-2	CARPET TILE	MOHAWK	TBD	STEP IN STYLE II	QL312	
T-1	WALL TILE	DALTILE	TBD	COLOR WHELL CLASSIC LINE 3X6 RUNNING BOND	TBD	PROVIDE SHLUTER STRIP AT TOP EDGE, AND SCHLUTER SANITARY COVE AT FLOOR/WALL INTERSECTION
T-2	FLOOR TILW	DALTILE	TBD	IRONCRAFT 12X24	TBD	
B-1	BASE	JOHNSONITE TARKETT	TBD	4" COVE	TBD	
P-1	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-2	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-3	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-4	PAINT	SHERWIN WILLIAMS	MATCH BASE COLOR	SEMI GLOSS	TBD	INTERIOR DOOR FRAMES AND HOLLOW METAL DOORS
FRP-1	FIBERGLASS REINFORCED PLASTIC	TBD	TBD	SMOOTH FINISH	TBD	
PL-1	PLASTIC LAMINATE	TBD	TBD	MATTE FINISH	TBD	
PL-2	PLASTIC LAMINATE	TBD	TBD	MATTE FINISH	TBD	
SS-1	SOLID SURFACE	TBD	TBD	TBD	TBD	GRADE C PRICE
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	WHITE	CORTEGA 2nd LOOK	2767	

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOORING	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CABINETS / COUNTERTOPS	CEILING MAT / HEIGHT	REMARKS
101	LOBBY	CPT-2	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
102	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
103	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
104	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
105	VISITOR OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
106	OPEN OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
107	CONF ROOM	CPT-1	B-1	P-3	P-3	P-3	P-3	--	ACT-1/9-8	
108	HALL	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
109	COPY / PRINT	CPT-1	B-1	P-1	P-1	P-1	P-1	PL-1/PL-2	ACT-1/9-8	
110	TLT	T-2	--	T-1/P-3	T-1/P-3	T-1/P-3	T-1/P-3	--	ACT-1/9-8	T-1 TO 5'-0" AFF AND P-3 TO CEILING
111	SERVER	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
112	SHARED OFFICE	CPT-1	B-1	P-1	P-2	P-1	P-1	--	ACT-1/9-8	
113	HALL	CPT-2	B-1	P-1	P-2	P-1	P-1	--	ACT-1/9-8	
114	STOR	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
115	TRAINING ROOM	CPT-1	B-1	P-1	P-2	P-1	P-1	--	ACT-1/9-8	
116	BREAK ROOM	SC-1	--	P-1	P-1	P-1	P-1	PL-1/SS-1	ACT-1/9-8	
117	LOCKER ROOM	SC-1	B-1	P-2	P-1	P-1	P-1	--	ACT-1/9-8	
118	MEN	SC-1	B-1*	P-2	T-1/P-1	T-1/P-1	T-1/P-1	--	ACT-1/9-8	B-1 ON NON TILED WALLS ONLY, T-1 TO 5'-0" AFF AND P-1 TO CEILING
119	HALL	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
120	WASHER / DRYER	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING
121	LOCKER ROOM	SC-1	B-1	P-1	P-1	P-2	P-1	--	ACT-1/9-8	
122	WOMEN	SC-1	B-1*	T-1/P-1	T-1/P-1	P-2	T-1/P-1	--	ACT-1/9-8	B-1 ON NON TILED WALLS ONLY, T-1 TO 5'-0" AFF AND P-1 TO CEILING
125	MAINT SHOP	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	COVER WALLS W/ FIRE RATED PLYWOOD TO 8'-0" AFF
126	MAINT OFFICE	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-1/9-8	
127	DRIVER LOUNGE	SC-1	B-1	P-1	P-1	P-1	P-1	PL-1	ACT-1/9-8	
128	TLT	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING
129	DRIVER LOUNGE	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	
130	TLT	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-1/9-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING

GENERAL FINISH NOTES

A. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND/OR FINISHER HAS INSPECTED AND ACCEPTED THE SUBSTRATE FOR RECEIVING THE WORK. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, UNKNOWN CONDITIONS OR UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS PROCEEDED.

B. USE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

C. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY IF A SPECIFIED FINISH ITEM BECOMES UNAVAILABLE.

D. CONTRACTOR TO SUBMIT SHOP DRAWINGS, FLOORING TRANSITION/GRAPHIC LOCATIONS AND SUBMITTALS OF ALL INTERIOR ITEMS AND FINISH MATERIALS TO ARCHITECT REVIEW PRIOR TO PLACING ANY MATERIAL ORDERS. CONTRACTOR MUST ACCOUNT FOR SUBMITTAL REVIEW, ORDERING AND DELIVERY WHEN SCHEDULING PRODUCT INSTALLATION.

E. USE SUBFLOOR REDUCER STRIPS (UNDER FLOORING) TO LEVEL MATERIALS OF UNEQUAL HEIGHTS.

F. PROVIDE JOHNSONITE SLIM-LINE TRANSITION STRIPS WHERE FLOORING MATERIALS OF UNEQUAL THICKNESS MEET. TRANSITION STRIPS AT DOORS TO BE LOCATED UNDER THE CENTERLINE OF THE DOOR IN CLOSED POSITION. COLOR OF TRANSITION STRIPS TO BE SELECTED BY ARCHITECT.

G. ALL WALL TILE TO BE INSTALLED TO FLOOR WITH NO BASE UNLESS NOTED OTHERWISE.

H. ANY GRILLES, FIRE EXTINGUISHER CABINETS, ETC., TO BE PAINTED TO MATCH WALL COLOR ON WHICH THEY OCCUR.

I. PROVIDE OWNER WITH A MINIMUM OF ONE FULL BOX OR 2% OF EACH FINISH PRODUCT/MATERIAL SPECIFIED ON THE PROJECT.

J. ALL WOODWORK/MILLWORK SHALL CONFORM TO THE QUALITY STANDARDS OF ARCHITECTURAL WOODWORK INSTITUTE (AWI) PREMIUM GRADE. FABRICATOR SHALL BE FAMILIAR WITH AWI STANDARDS.

K. FABRICATE WOODWORK/MILLWORK ITEMS TO ACTUAL FIELD DIMENSIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SAMPLES, AND/OR MATERIAL LITERATURE FOR ALL ITEMS. SHOP DRAWINGS SHALL SHOW SUFFICIENT DETAIL TO DETERMINE COMPLIANCE WITH THE QUALITY STANDARDS AND DESIGN INTENT.

L. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR WOODWORK AND FINISH ITEMS. COORDINATE LOCATION OF BLOCKING WITHIN WALLS FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.

M. FINISH ALL SIDES AND BACK OF MILLWORK/CASEWORK.

N. ALL COUNTERTOPS TO BE 1 $\frac{1}{4}$" THICK WITH A SQUARE EDGE, UNLESS OTHERWISE NOTED. PROVIDE COUNTER SUPPORTS AS REQUIRED.

O. PROVIDE GROMMETS IN COUNTERTOPS ABOVE RECEPTACLES. COLOR TO MATCH COUNTER SURFACE. COORDINATE WITH OWNER AND ARCHITECT ON FINAL LOCATION AND SIZE OF GROMMETS BEFORE INSTALLATION.

P. REFER TO FINISH SCHEDULE, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR ALL MATERIAL INFORMATION AND LOCATIONS.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
City's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

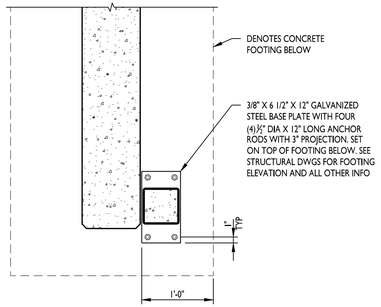
ISSUE DATES

	PERMIT SET	02.18.22
1	VE REVISIONS	12.20.22

210300

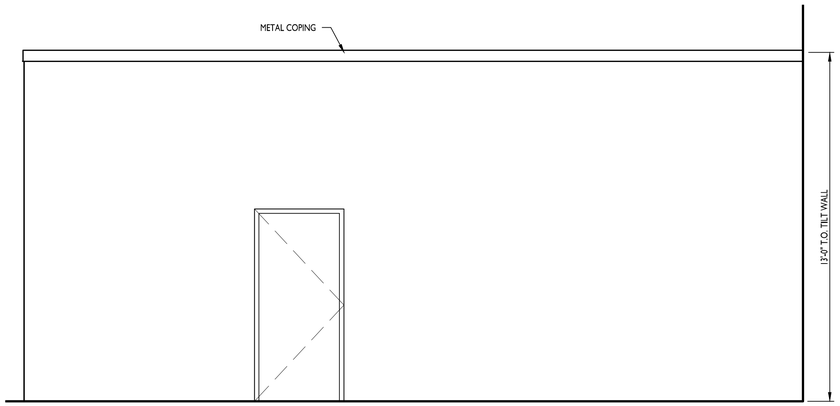
FINISH SCHEDULE

A603

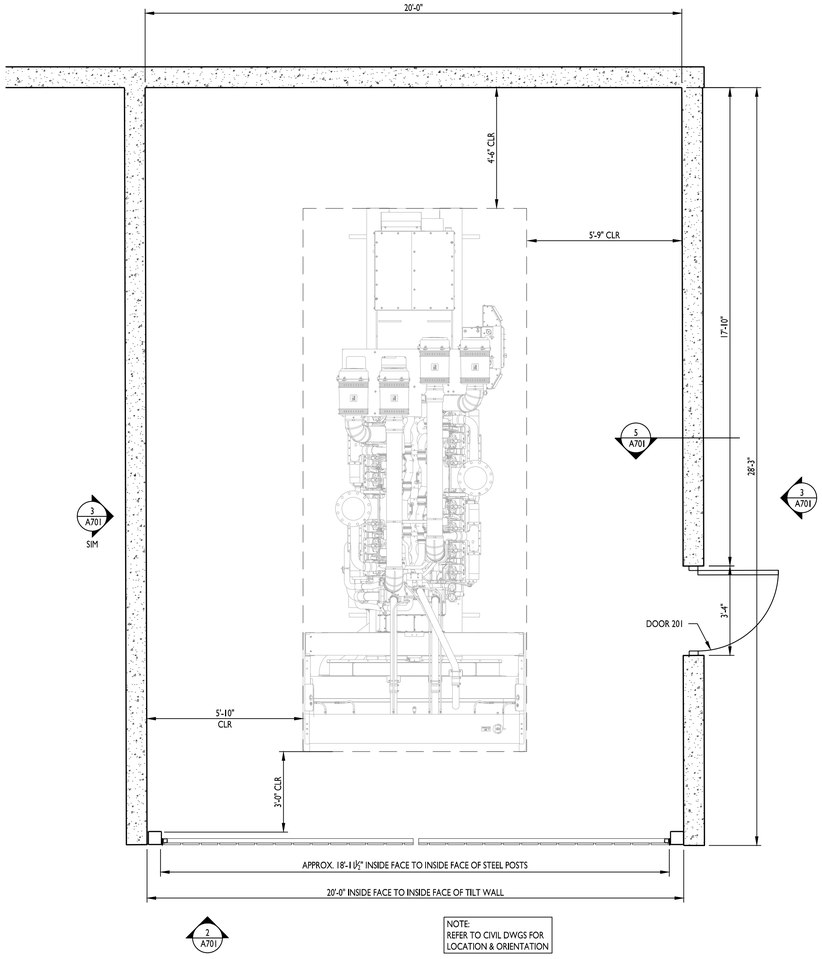


SEE DETAIL 7 ON THIS SHEET FOR ALL OTHER GATE REQUIREMENTS NOT SHOWN HERE

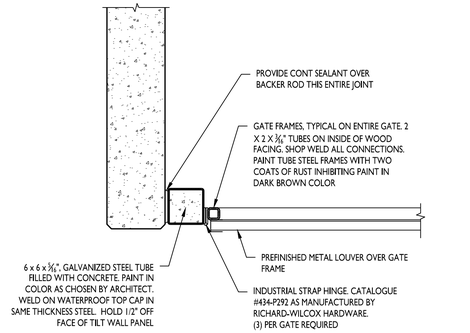
DETAIL AT FOOTING 6
1" = 1'-0"



ELEVATION - SIDE 3
3/8" = 1'-0"



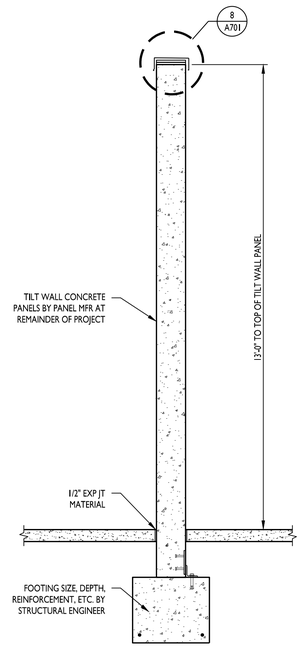
PLAN 1
3/8" = 1'-0"



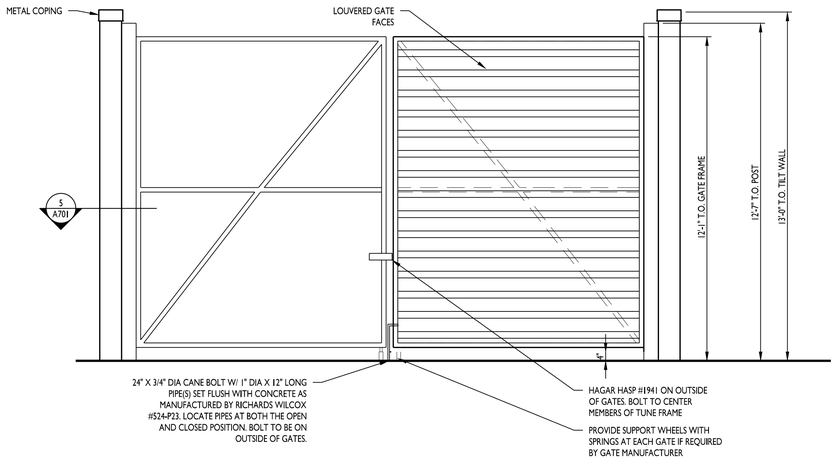
ALL STEEL PARTS OF GATE AND ALL GATE HARDWARE TO BE GALVANIZED. PRIME AND PAINT IN COLOR CHOSEN BY ARCHITECT

DETAIL AT JAMB 7
1" = 1'-0"

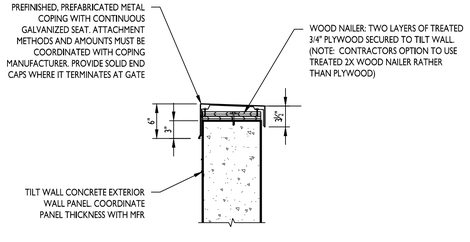
NOT USED 4
3/8" = 1'-0"



SECTION 5
1/2" = 1'-0"



ELEVATION - FRONT 2
3/8" = 1'-0"



COPING DETAIL 8
1" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/09/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

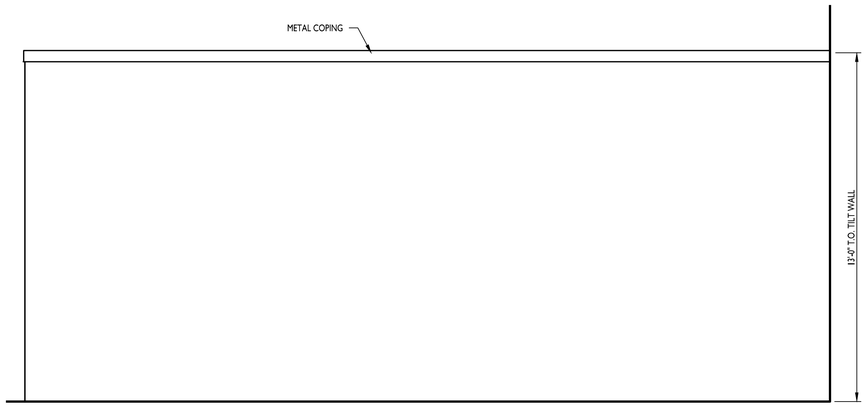
ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS (ENTIRE SHEET)	06.14.22

210300

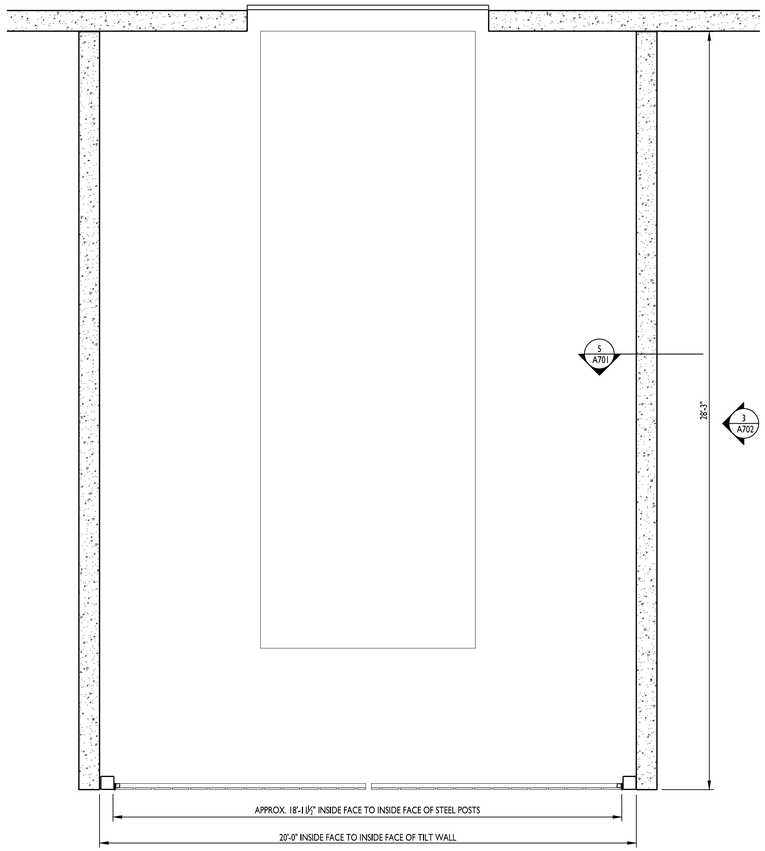
EXTERIOR ENCLOSURE

A701



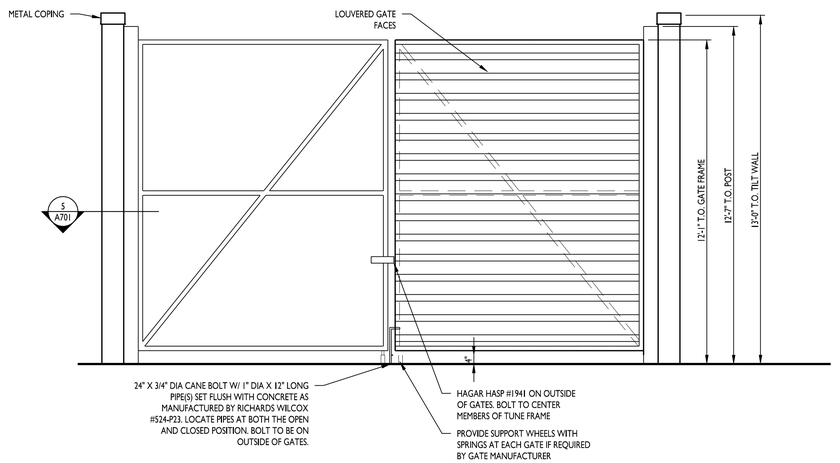
ELEVATION - SIDE **3**

3/8" = 1'-0"



PLAN **1**

3/8" = 1'-0"



ELEVATION - FRONT **2**

3/8" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/09/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL
PROPERTIES

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

ISSUE DATES

	PERMIT SET	02.18.22
1	REVISIONS (ENTIRE SHEET)	06.14.22

210300

COMPACTOR ENCLOSURE

A702

DESIGN PARAMETERS

1.	BUILDING CODE	2018 INTERNATIONAL BUILDING CODE (IBC)
	OCCUPANCY CATEGORY	II
2.	LIVE LOADS	
	A. ROOF – NON–REDUCIBLE	20 PSF
	B. SLAB–ON–GRADE	350 PSF
3.	ROOF SNOW LOAD	
	A. GROUND SNOW LOAD, Pg	20 PSF
	B. FLAT ROOF SNOW LOAD, Pf	20 PSF
	C. SNOW EXPOSURE FACTOR, Ce	1.0
	D SNOW LOAD IMPORTANCE FACTOR, I	1.0
	E. THERMAL FACTOR, Ct (BUILDING)	1.0
	F. SNOW DRIFT	PER REFERENCED CODE
4.	WIND DESIGN DATA	
	A. ULTIMATE WIND SPEED (3 SECOND GUST), V	109 MPH
	B. WIND IMPORTANCE FACTOR, I	1.00
	C. WIND EXPOSURE CATEGORY	C
	D. INTERNAL PRESSURE COEFFICIENT, Gcpi	+/– 0.18
	E. DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING (1.0W)	
	1) WALLS (500 SQUARE FEET EFFECTIVE WIND AREA)	
	END ZONES	23.7 PSF
	INTERIOR ZONES	23.7 PSF
	2) ROOF (10 SQUARE FEET EFFECTIVE WIND AREA FOR DECK ATTACHMENT)	
	CORNER ZONES	89.1 PSF
	END ZONES	65.4 PSF
	INTERIOR ZONE 1	49.6 PSF
	INTERIOR ZONE 2	28.5 PSF
	F. WIDTH OF END ZONES, a	18.9 FT
5.	EARTHQUAKE DESIGN DATA	
	A. SEISMIC IMPORTANCE FACTOR, I	1.0
	B. MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	9.9 %
	C. MAPPED SPECTRAL RESPONSE ACCELERATION, S1	6.8 %
	D. SITE CLASS	C
	E. SPECTRAL RESPONSE COEFFICIENT, Sds	0.086
	F. SPECTRAL RESPONSE COEFFICIENT, Sd1	0.068
	G. SEISMIC DESIGN CATEGORY	B
	H. STRUCTURAL SYSTEM (DUAL SYSTEM)	
	1) BASIC SEISMIC FORCE–RESISTING SYSTEM TYPE	H. STEEL SYSTEM
	2) VERTICAL ELEMENT TYPE	1) STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
	3) BASIC SEISMIC FORCE–RESISTING SYSTEM TYPE	A. BEARING WALL SYSTEMS
	4) VERTICAL ELEMENT TYPE	2) ORDINARY PRECAST SHEAR WALLS
	5) DESIGN BASE SHEAR, LRFD	0.029 W
	6) SEISMIC RESPONSE COEFFICIENT, Cs	0.029
	7) CONTROLLING RESPONSE MODIFICATION FACTOR, R	3
	J. ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
6.	DEAD LOAD	
	A. EPDM MEMBRANE	0.3 PSF
	B. RIGID INSULATION	0.7 PSF
	C. ROOF DECK	2.0 PSF
	D. LIGHTS, PLUMBING, & HVAC	3.0 PSF
	E. SPRINKLERS	2.0 PSF
	F. STEEL JOISTS	2.0 PSF
	G. STEEL GIRDERS	2.0 PSF
	H. TOTAL DEAD LOAD ON JOISTS	10.0 PSF
	J. TOTAL DEAD LOAD ON COLUMNS	12.0 PSF

GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON–SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
4. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN–PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
5. ASSUME EQUAL SPACING IF NOT INDICATED ON DRAWINGS.
6. THE GENERAL NOTES ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE STRUCTURAL DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS DIFFER FROM THE GENERAL NOTES, NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
7. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE AN INDEPENDENT SET OF THE CONSTRUCTION DOCUMENTS. SEE ARCHITECTURAL, MEP, CIVIL AND OTHER DRAWINGS FOR INFORMATION RELATED TO THE STRUCTURAL WORK. CONTRACTOR SHALL VERIFY COORDINATION OF THE DESIRED DETAILS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER IF ADDITIONAL COORDINATION IS REQUIRED.
8. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.

FOUNDATIONS

1. FOUNDATION DESIGNS, SUBGRADE PREPARATION NOTES, AND STRUCTURAL EARTH MOVING SPECIFICATION ARE BASED ON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT, BY: OLSSON, INC. OF 1700 E 123RD ST., OLATHE, KANSAS 64080 (PHONE NO. 913–829–0078) DATED: FEBRUARY 2022.
2. FOOTING DESIGNS ARE BASED ON AN ASSUMED STABLE, NON–EXPANSIVE SOIL WITH AN ALLOWABLE FOUNDATION PRESSURE OF 2500 PSF WITH A MAXIMUM DIFFERENTIAL SETTLEMENT OF 3/4 INCH. CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO DETERMINE WHETHER OR NOT SOIL MEETS THIS MINIMUM CRITERIA AND IF IT DOES NOT, SHALL NOTIFY ENGINEER SO THAT THE FOUNDATION MAY BE REDESIGNED ACCORDINGLY.
3. CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE GEOTECHNICAL REPORT.
4. A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND CONSULTING ENGINEER OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.
5. USE ONLY STRUCTURAL FILL MATERIAL AS NOTED IN THE GEOTECHNICAL REPORT FOR FILL BELOW BUILDING AND FIVE FEET BEYOND THE EDGES OF THE BUILDING.
6. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
7. FOOTINGS SHALL BE POURED AGAINST UNDISTURBED SOIL, UNLESS NOTED OTHERWISE.
8. AVOID DAMAGE TO UNDERGROUND UTILITIES SUCH AS WATER MAINS, SANITARY SEWERS, BURIED CABLES, ETC., WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

A.	FOOTINGS (GRADE BEAMS)	3000 PSI U.N.O. ON PLAN
B.	FOUNDATION WALLS	3000 PSI
C.	SLABS–ON–GRADE	4000 PSI
D.	CONCRETE WALL PANELS (MINIMUM STRENGTH)	4000 PSI

MAXIMUM WATER/CEMENT RATIO = 0.48 TO 0.50 FOR FOOTINGS AND 0.52 FOR SLABS–ON–GRADE AND PRECAST WALLS PANELS

SLUMP LIMITS = 4" + 1"

CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.

CEMENTITOUS MATERIALS CONTENT SHALL NOT BE LESS THAN 520 POUNDS PER CUBIC YARD. USE OF ANY FLY ASH IN FLOOR SLAB MIXES SHALL BE NO MORE THAN 20%.

2. AIR–ENTRAINED IS NOT REQUIRED FOR STRUCTURAL CONCRETE.
3. AGGREGATES SHALL COMPLY WITH ASTM C 33 AND SHALL BE FREE OF DELETERIOUS MATTER AND SHALL BE MADE OF COARSE LIMESTONE OR GRANITE AGGREGATES.
4. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE. IF ADMIXTURES ARE UTILIZED, THEY SHALL BE COMPATIBLE WITH OTHER ADMIXTURES AND MUST NOT CONTRIBUTE WATER–SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE.
5. REINFORCING STEEL SHALL MEET THE FOLLOWING:

A.	DEFORMED BARS	ASTM A615, GRADE 60
B.	WELDABLE DEFORMED BARS	ASTM A706, GRADE 60
C.	WELDED WIRE FABRIC	ASTM A185

6. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
7. REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING, FABRICATION, PLACEMENT AND SUPPORT PRACTICES, ACI 347 FOR FORMWORK, ACI 305 FOR HOT WEATHER CONCRETING, ACI 306 FOR COLD WEATHER CONCRETING, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE. PROVIDE CONCRETE COVER DIMENSIONS IN SHOP DRAWINGS FOR STRUCTURAL ENGINEER REVIEW.
8. "C.J." INDICATES SAW CUT CONTRACTION JOINT OR DOWELED CONSTRUCTION JOINT IN SLAB–ON–GRADE. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE STRUCTURAL ENGINEER.
9. PROVIDE CORNER BARS THAT MATCH CONTINUOUS REINFORCMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF FOUNDATIONS.
10. REINFORCING BAR SUPPORTS SHALL BE BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES TO HOLD REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURER BAR SUPPORTS FFROM STEEL, PLASTIC OR PRECAST CONCRETE ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" OF GREATER COMPRESSIVE STRENGTH THAN THE CONCRETE PLACED IN.
11. FORM–FACING PANELS THAT WILL BE EXPOSED TO VIEW SHALL BE CONSTRUCTED TO MINIMIZE THE NUMBER OF JOINTS AND SHALL BE MADE OF PLYWOOD, METAL OR OTHER APPROVED PANEL MATERIAL. PLYWOOD MUST COMPLY WITH DOC PS 1 AND BE CLASS 1 OR BETTER.
12. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
13. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, FORK LIFTS, MAN LIFTS, AND OTHER VEHICULAR TRAFFIC.
14. A VAPOR RETARDER NOT LESS THAN 10 MILS THICK SHALL BE INSTALLED ONLY AT AREAS NOTATED ON THE CONSTRUCTION DOCUMENTS. THE RETARDER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATION WITH JOINTS USING THE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE SENSITIVE JOINT TAPE AND INCLUDING THE MANUFACTURER'S PROPRIETARY PENETRATION FLASHING FOR ALL THROUGH–SLAB PENETRATIONS. LAP VAPOR RETARDER JOINTS 6 INCHES MINIMUM.
15. CONCRETE SLABS–ON–GRADE SHALL BE CONSTRUCTED WITH A HARD TROWEL FINISH AND BE FINISHED ACCORDING TO ASTM E 1155 TO ACHIEVE THE MINIMUM TOLERANCES BELOW:

    OVERALL VALUES: FF = 50 FL = 35
    LOCAL VALUES: FF = 25 FL = 20
16. THE CONCRETE SLAB–ON–GRADE SHALL BE CURED WITH AN APPROVED CURING MATERIAL THAT HAS BEEN SUBMITTED AND APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD. THE FLOOR SHALL BE CURED WITH ONE COAT OF HARDENER/DENSIFIER (ASHFORD FORMULA SEALER OR APPROVED ALTERNATE).
17. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, OPENINGS, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHALL VERIFY WITH ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS FOR LOCATIONS OF REQUIRED COORDINATION ITEMS. CONTRACTOR SHALL CONTACT THE ARCHITECT OR ENGINEER IF AN ERROR OR OMISSION OCCURS AFTER CONCRETE PLACEMENT.
18. ANCHOR BOLTS AND EMBED PLATES SHALL BE TIED INTO THE REBAR CAGE AND HELD IN PLACE WITH A RIGID TEMPLATE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.
19. NON–SHRINK GROUT SHALL BE PRE–MIXED, NON–SHRINKING WITH A MINIMUM COMPRESSIBE STRENGTH OF 5000 PSI IN 28 DAYS CONFORMING TO USACE SPECIFICATIONS NO. CRD–C621.

CONCRETE WALL PANELS

1. THE STRUCTURAL DRAWINGS REPRESENT THE REQUIRED FINAL IN PLACE LOADINGS FOR THE CONCRETE WALL PANELS. THE PANELS SHALL BE DESIGNED BY THE TILT–UP SUPPLIER FOR THE FINAL IN PLACE LOADINGS ALONG WITH BEING DESIGNED FOR ERECTION STRESSES, TEMPORARY BRACING OR LIFTING OF THE WALL PANELS. WALL PANELS SHALL BE DESIGNED AND DETAILED TO ADHERE TO ALL LOCAL CODES.
2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE TILT–UP WALL PANELS. SHOP DRAWINGS SHALL INCLUDE CALCULATIONS FOR FINAL IN PLACE LOADINGS, ERECTION, LIFTING AND TEMPORARY BRACING OF THE WALL PANELS ALONG WITH ANY OTHER ADDITIONAL CONSTRUCTION CONSIDERATIONS. SHOP DRAWINGS AND CALCULATIONS FOR THE CONSTRUCTION CONSIDERATIONS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. DESIGN CALCULATIONS SHALL SHOW STRESSES IN THE PANELS FOR THE LOADS PRESCRIBED IN THE CONSTRUCTION DOCUMENTS ALONG WITH THERMAL DIFFERENTIAL AND ERECTION AND LIFTING FORCES. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
3. THE CONTRACTOR SHALL VERIFY THE PROPOSED TILT–UP WALL PANELS ARE CAPABLE OF MEETING THE FINAL IN PLACE AND ERECTION REQUIREMENTS PRIOR TO BIDDING THE WORK. ANY DEVIATIONS FROM THE WALL PANELS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE QUALIFIED IN THE CONTRACTOR'S BID.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE VERTICAL AND LATERAL SYSTEM COMPONENTS TO SUPPORT THE LOADINGS STIPULATED IN THE CONSTRUCTION DOCUMENTS. THE FOUNDATIONS HAVE BEEN DESIGNED BASED ON THESE LOADING REQUIREMENTS. ANY DEVIATIONS IN THE LOADINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING.
5. THE CONCRETE WALL PANELS SHALL CONFORM TO ACI 301, ACI 318, ACI 551, CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE", AND AWS D1.4 STRUCTURAL WELDING CODE FOR REINFORCING STEEL. SEE THE CONCRETE GENERAL NOTES FOR ADDITIONAL CONFORMANCE SPECIFICATIONS.
6. SEE THE CONCRETE GENERAL NOTES AND SPECIFICATIONS FOR MIX DESIGN DATA AND REQUIREMENTS.
7. THE TILT–UP WALL PANEL SHALL ADHERE TO THE MECHANISMS SET FORTH IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. ADDITIONALLY, THE DESIGN SHALL INCLUDE ALL BOLTS, EMBEDMENT PLATES, BLOCKOUTS, FUTURE KNOCKOUT PANEL LOCATIONS, BRACING AND SUPPORTING STRUCTURE.
8. SEE THE STEEL GENERAL NOTES AND SPECIFICATIONS FOR SECTION PROPERTY REQUIREMENTS. ALL STEEL SHAPES, PLATES, ANCHORS, BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
9. CAST–IN–PLACE ANCHORS SHALL BE HEADED STUDS OR DEFORMED BAR ANCHORS. ASTM 615 REINFORCING BARS SHALL NOT BE USED AS ANCHORS.
10. ALL WELDS SHALL BE PERFORMED BY A AWS CERTIFIED WELDER AND IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE" AND AWS D1.4 "STRUCTURAL WELDING CODE FOR REINFORCING STEEL". ALL WELDS SHALL BE PAINTED WITH ZINC RICH REPAIR PAINT AFTER WELDING.
11. ALL WELDS FOR DEFORMED BAR ANCHORS SHALL USE E90XX ELECTRODES.
12. PROVIDE BEARING PADS AND GROUT MATERIALS AS REQUIRED PER CODE AND INDUSTRY STANDARDS.
13. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS ANY ADDITIONAL REQUIREMENTS FOR DIMENSIONS, FINISH, REVEALS AND ANY OTHER REQUIREMENTS OF THE CONCRETE WALL PANELS.
14. CONTRACTOR SHALL ERECT THE CONCRETE WALL PANELS SUCH THAT IT IS SAFE FOR PERSONNEL AND PROPERTY AND PROVIDE BRACING TO PROTECT THE PANELS AGAINST WIND, SEISMIC AND FORCES THAT MAY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL PERMANENT BRACING, DECKING, CONNECTIONS AND WALL PANELS HAVE BEEN FULLY INSTALLED.
15. CONCRETE WALL PANELS SHALL BE ERECTED TO ADHERE TO THE TOLERANCES OF THE LATEST AMERICAN CONCRETE INSTITUTE SPECIFICATIONS. ERECTION TOLERANCES SHALL BE COORDINATED WITH THE STEEL SUPPLIER TO PROVIDE PROPER FIT–UP. DEFLECTIONS OF THE STRUCTURAL STEEL SYSTEM MAY OCCUR DURING CONCRETE WALL PANEL ERECTION. THESE DEFLECTIONS MAY REQUIRE ADJUSTMENT AND RESETTING OF CONCRETE WALL PANELS IN ORDER TO MEET THE TOLERANCES. THE CONTRACTOR SHALL BE AWARE OF THIS ITERATION PROCESS IN HIS BID AND IS RESPONSIBLE FOR THE TOLERANCES BEING MET.
16. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR CRANE USE AND CONCRETE WALL PANEL BRACING. THE CONTRACTOR SHALL VERIFY THE SLAB ADEQUACY AND SUBMIT PROPOSED DESIGNED, IF REQUIRED, TO THE STRUCTURAL ENGINEER FOR REVIEW.
17. ALL CONCRETE WALL PANELS COMPONENTS SHALL ADHERE TO THE DETAILING, FABRICATION AND ERECTION REQUIREMENTS OF THE LATEST EDITIONS OF ACI 301 (SPECIFICATIONS FOR CONCRETE), ACI 318 (STRUCTURAL CONCRETE BUILDING CODE), AWS D1.4 (WELDING CODE FOR REINFORCING STEEL), CRSI (MANUAL OF STANDARD PRACTICE), PCI MNL 116 (MANUAL FOR QUALITY CONTROL FOR PLANS AND PRODUCTION OF PRECAST CONCRETE PRODUCTS), PCI MNL 120 (PCI DESIGN HANDBOOK) AND PCI MNL 135 (TOLERANCE MANUAL FOR PRECAST PRESTRESSED CONCRETE CONSTRUCTION).
18. CONCRETE WALL PANELS SHALL PROVIDE EXPANSIONS JOINTS AT THE ROOF EXPANSION JOINT TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION. ADDITIONALLY, THE PRECAST SUPPLIER SHALL ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN WALL PANELS BY ALLOWING EXPANSION EVERY FIFTH WALL PANEL.
19. CONCRETE WALL PANELS SHALL BE SOLID CORE BELOW FINISH FLOOR ELEVATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (Fy), UNLESS NOTED OTHERWISE:

		YIELD	ASTM SPECIFICATION
A.	W, WT SHAPES:	50 KSI	A992
B.	BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C.	SQUARE, RECTANGULAR HSS:	50 KSI	A500, GRADE C
D.	ANCHOR RODS:	36 KSI OR 55 KSI	F1554
E.	ALL–THREAD RODS:	36 KSI	A36
F.	HEADED STUD ANCHORS:	65 KSI TENSILE STRESS	A108, GRADES 1010–1020

2. ALL STRUCTURAL STEEL SHALL ADHERE TO THE DETAILING, FABRICATION AND ERECTION REQUIREMENTS OF THE LATEST EDITIONS OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND THE AISC CODE OF PRACTICE.
3. BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4–INCH DIAMETER ASTM A325–N HIGH–STRENGTH BOLTS UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS ARE BEARING TYPE AND SHALL BE SNUG TIGHTENED UNLESS NOTED OTHERWISE. FOR PRETENSIONED OR SLIP–CRITICAL JOINTS, THE METHOD OF INSTALLATION SHALL BE TURN–OF–NUT WITH MATCH MARKING, TWIST–OFF–TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F1852), OR DIRECT TENSION INDICATORS (ASTM F959).
4. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE E70XX, LOW HYDROGEN. ALL STRUCTURAL STEEL WELDS SHALL BE PERFORMED BY A AWS CERTIFIED WELDER.
5. WELDS NOT SPECIFICALLY SIZED ON THE STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE PER THE LATEST AWS D1.1.
6. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE 1 1/2 INCH NON–SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. USE 2 1/2 INCHES NON–SHRINK GROUT WHEN COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR LARGER. NON–SHRINK GROUT SHALL BE NON–METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
7. SHEAR CONNECTORS SHALL BE A CARBON STEEL HEADED STUD TYPE ASTM A108 GRADES 1010 THRU 1020, AWS D1.1, TYPE B WITH ARC SHIELDS.
8. ALL CONNECTIONS ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS SUCH AS SHELF ANGLES, GLAZING SUPPORTS AND LINTELS.
10. LEDGER ANGLES AND LINTELS IN EXTERIOR WALL SYSTEMS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.
11. ALL STRUCTURAL STEEL SHALL HAVE A COAT OF LIGHT GRAY PAINT TO PROVIDE PROTECTION AND GOOD APPEARANCE.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S0.0
GENERAL NOTES

POST INSTALLED ANCHORS:

1. ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING.
2. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED ICC ES OR ESR REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING CODE.
4. ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON-SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.
5. THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE, BUT NOT YET EXPANDED, IF APPLICABLE.
6. ANCHORS AT ALL WEATHER EXPOSED LOCATIONS SHALL BE STAINLESS STEEL.
7. NON-EPOXY BASED ADHESIVES SHALL BE USED WHEN BASE MATERIAL TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT.
8. THE FOLLOWING CONCRETE MECHANICAL ANCHORS ARE ALLOWED FOR USE IN CRACKED AND UNCRACKED CONCRETE AND HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193.
   A. SIMPSON STRONG-TIE "STRONG BOLT 2" (ICC-ES ESR-3037)
   B. SIMPSON STRONG-TIE "TITEN HD" (ICC-ES ESR-2713)
   C. HILTI "KWIK BOLT TZ" EXPANSION ANCHOR (ICC-ES ESR 1917)
   D. HILTI "HSL-3" HEAVY DUTY EXPANSION ANCHOR (ICC-ES ESR 1545)
   E. HILTI "HDA" UNDERCUT ANCHOR (ICC-ES ESR 1546)
   F. HILTI "KWIK HUS EZ" EXPANSION ANCHOR (ICC-ES ESR 3027)
9. THE FOLLOWING CONCRETE ADHESIVE ANCHORS ARE ALLOWED FOR USE IN CRACKED AND UNCRACKED CONCRETE AND HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308.
   A. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
   B. HILTI "HIT-HY200" (ICC-ES ESR-1385)
   C. HILTI "HIT-RE 500 V3" (ICC-ES ESR-3814)

MASONRY

1. CONCRETE MASONRY UNITS SHALL MEET ASTM SPECIFICATION C90, WITH A MINIMUM UNIT COMPRESSIVE STRENGTH = 1900 PSI. THE SPECIFIED DESIGN COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY ASSEMBLY (f'm) SHALL BE 1900 PSI.
2. MORTAR SHALL BE A PREBLENDED DRY MIX CONFORMING TO ASTM C1714 AND MEETING THE PROPERTY SPECIFICATIONS OF ASTM C270 TYPE "S" MORTAR FOR BELOW GRADE. TYPE "N" MORTAR FOR ABOVE GRADE. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.
3. GROUT SHALL MEET ASTM SPECIFICTION C476 AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.
4. SOLID GROUT HOLLOW MASONRY CELLS AS NOTED ON STRUCTURAL DRAWINGS. USE GROUT METHOD OF CONSTRUCTION CONFORMING TO REQUIREMENTS OF CURRENT MSJC. GROUT SPACE DIMENSIONS AND MAXIMUM POUR HEIGHTS SHALL COMPLY WITH MSJC.
   A. LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 4'-0" OR THE DISTANCE BETWEEN BOND BEAMS, WHICHEVER IS LESS.
   B. GROUTING SHALL BE A CONTINUOUS PROCEDURE FOR EACH LIFT. DO NOT ALLOW HORIZONTAL CONSTRUCTION JOINT TO FORM BY DISCONTINUING GROUTING.
   C. VERTICAL GROUT POUR EXCEEDING 12 INCHES SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4 INCH DIAMETER HEAD.
5. CONTRACTOR SHALL CLEAN THE GROUT SPACES SUCH THAT THEY ARE FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATES AND ANY MATERIAL THAT WOULD PREVENT CONTINUITY OF THE GROUT.
6. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE. JOINT REINFORCEMENT SHALL BE SPACED AT 8 INCHES ON CENTER BELOW FINISHED FLOOR AND IN PARAPETS, AND 16 INCHES ON CENTER ABOVE FINISHED FLOOR.
7. CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND.
8. CONCRETE MASONRY BELOW FINISHED FLOOR SHALL BE NORMAL WEIGHT UNITS AND SHALL HAVE ALL THE CELLS FULLY GROUTED. CONCRETE MASONRY ABOVE FINISHED FLOOR SHALL BE MEDIUM WEIGHT AND IS TO BE GROUTED ONLY AT REINFORCED CELLS AND BOND BEAMS, UNLESS NOTED OTHERWISE. ALL CELLS WITH REINFORCING OR EMBEDDED ITEMS SHALL BE GROUTED SOLID.
9. REFERENCE WALL SECTIONS AND DETAILS FOR MISCELLANEOUS BOND BEAM LOCATIONS AND EMBEDDED ITEMS. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS, UNLESS NOTED OTHERWISE.
10. REINFORCING STEEL SHALL MEET ASTM SPECIFICATION A615, GRADE 60. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
11. PROVIDE TEMPORARY BRACING FOR WALLS, LINTELS, AND OTHER MASONRY DURING ERECTION. BRACING SHALL BE DESIGNED IN ACCORDANCE WITH THE MASON CONTRACTORS ASSOCIATION OF AMERICA STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION. DESIGN SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. BRACING SHALL REMAIN UNTIL ROOFING AND OTHER STRUCTURAL ELEMENTS ARE COMPLETE AND PROVIDE PERMANENT STABILITY.

PRECAST CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS OF 5000 PSI. REFERENCE SPECIFICATIONS FOR MAXIMUM WATER/CEMENT RATIOS, MINIMUM CEMENT CONTENTS AND OTHER MIX DESIGN REQUIREMENTS. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.
2. THE STRUCTURAL DRAWINGS REPRESENT THE FINAL IN PLACE CONCRETE WALL PANELS. THE PANELS HAVE NOT BEEN DESIGNED FOR ERECTION STRESSES, TEMPORARY BRACING OR LIFTING OF THE WALL PANELS .
3. ALL PRECAST COMPONENTS AND CONNECTIONS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE PRECAST MANUFACTURER. CALCULATIONS SHALL INCLUDE CONSIDERATIONS FOR ERECTION, LIFTING AND TEMPORARY BRACING ALONG WITH ANY OTHER ADDITIONAL CONSTRUCTION CONSIDERATIONS.
4. THE CONTRACTOR SHALL VERIFY THE PROPOSED PRECAST COMPONENTS ARE CAPABLE OF MEETING THE ERECTION REQUIREMENTS PRIOR TO BIDDING THE WORK. ANY DEVIATIONS FROM THE WALL PANELS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE QUALIFIED IN THE CONTRACTOR'S BID. ANY DEVIATIONS SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO PROCEEDING.
5. THE PRECAST CONTRACTOR SHALL PROVIDE ADEQUATE COMPONENTS TO SUPPORT THE VERTICAL AND LATERAL LOADINGS STIPULATED IN THE CONSTRUCTION DOCUMENTS. ANY DEVIATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING. THE SUPPORTING STRUCTURE HAS BEEN DESIGNED BASED ON THE DETAILS SHOWN.
6. REFERENCE THE STEEL GENERAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL REQUIREMENTS. ALL STEEL SHAPES, PLATES, ANCHORS, BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
7. CAST-IN-PLACE ANCHORS SHALL BE HEADED STUDS OR WELDABLE DEFORMED BARS. ASTM A615 REINFORCING BARS SHALL NOT BE USED AS ANCHORS.
8. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PANEL SIZE, LOCATIONS, JOINTS, FINISH, REVEALS AND OTHER AESTHETIC REQUIREMENTS OF THE PRECAST WALL PANELS.
9. REFERENCE ARCHITECTURAL AND MEP DRAWINGS FOR OPENINGS, SLEEVES AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ITEMS SHALL BE SHOWN ON SHOP DRAWINGS FOR APPROVAL.
10. PROVIDE TEMPORARY BRACING FOR PRECAST COMPONENTS DURING ERECTION. BRACING SHALL BE DESIGNED IN ACCORDANCE WITH PRECAST/PRESTRESSED CONCRETE INSTITUE (PCI) HANDBOOK DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. BRACING SHALL REMAIN UNTIL STRUCTURAL ELEMENTS THAT PROVIDE PERMANENT SUPPORT ARE FULLY INSTALLED.
11. ERECTION TOLERANCES SHALL BE COORDINATED WITH THE STEEL SUPPLIER TO PROVIDE PROPER FIT-UP. DEFLECTIONS MAY REQUIRE ADJUSTMENT AND RESETTING OF PRECAST WALL PANELS IN ORDER TO MEET THE TOLERANCES. THE CONTRACTOR SHALL BE AWARE OF THIS ITERATION PROCESS AND IS RESPONSIBLE FOR THE TOLERANCES BEING MET.
12. WALL PANELS SHALL HAVE EXPANSION JOINTS AT THE ROOF EXPANSION JOINT TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION. ADDITIONALLY, THE PRECAST SUPPLIER SHALL ALLOW FOR DIFFERENTIAL MOVEMENT BETWEEN WALL PANELS.

DEFERRED STRUCTURAL SUBMITTALS

1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
   A. STRUCTURAL STEEL CONNECTIONS OF FRAMING AND BRACING ELEMENTS
   B. STEEL JOISTS AND JOIST GIRDERS (CONTRACTOR SHALL OBTAIN FIRE LINE LOCATIONS AND SIZES PRIOR TO SUBMITTAL OF JOIST SHOP DRAWINGS.)
   C. STEEL, SELF-SUPPORTING STAIRS AND HANDRAIL FRAMING
   D. STOREFRONT AND CURTAINWALL FRAMING, ACCESSORIES AND ATTACHMENTS TO STRUCTURE
   E. EXCAVATION SUPPORT
   F. TEMPORARY BRACING AND SUPPORT
   G. CONCRETE WALL PANEL REINFORCING
   H. ROOF ACCESS LADDERS AND SAFETY CAGES
   I. SEISMIC ANCHORAGE AND BRACING OF MEP COMPONENTS
   J. HOLLOW-CORE PRECAST CONCRETE
2. DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWINGS

1. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL FOR THE ENGINEER'S REVIEW. THE STRUCTURAL ENGINEER'S REVIEW IS TO CHECK THE GENERAL CONFORMANCE OF THE SHOP DRAWINGS WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ALTERATIONS FROM THE CONTRACT DOCUMENTS WHICH MAY INCLUDE QUANTITIES, DIMENSIONAL ERRORS OR OTHER ERRORS AND OMISIONS IN THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF THE CONTRACT DOCUMENTS.
3. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE SUBMITTED AS A SHOP DRAWING FOR REVIEW:
   A. CONCRETE MIX DESIGN AND MATERIALS
   B. CONCRETE REINFORCING STEEL
   C. CONCRETE FORMWORK
   D STRUCTURAL STEEL
   E. STEEL JOISTS
   F. STEEL ROOF DECK AND THEIR ATTACHMENTS.
   G. ALL DEFERRED SUBMITTAL ITEMS

SPECIAL INSPECTIONS

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2 OF THE IBC.
5. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION PER SECTION 1700 OF THE REFERENCED BUILDING CODE.
   A. BOLTS & ANCHORS EMBEDDED IN CONCRETE
   B. PLACEMENT OF REINFORCING STEEL IN CONCRETE
   C. CONCRETE MIX DESIGN
   D. CONCRETE FORMWORK
   E. STRUCTURAL STEEL FABRICATIONS
   F. STRUCTURAL STEEL BOLTING AND WELDING
   G. ON SITE STRUCTURAL FRAMING
   H. INSPECTION OF ROOF DECK ATTACHMENTS
   I. SHEAR WALL ATTACHMENTS AND ANCHORS
   J. POST INSTALLED ANCHORS
   K. ON SITE SOILS, EXCAVATIONS, FILLING AND COMPACTION
   L. ERECTION OF PRECAST CONCRETE MEMBERS

ABBREVIATIONS

A.B.	ANCHOR BOLTS
ACI	AMERICAN CONCRETE INSTITUTE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
A.F.F.	ABOVE FINISHED FLOOR
ARCH.	ARCHITECTURAL
BAL.	BALANCE
B.L.	BLOCK LINTEL
BLDG.	BUILDING
B.O.	BOTTOM OF
B.O.D.	BOTTOM OF DECK
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
DIA.	DIAMETER
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
E.O.D.	EDGE OF DECK
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
E.W.	EACH WAY
EXIST.	EXISTING
FDN.	FOUNDATION
F.F.E.	FINISHED FLOOR ELEV.
F.S.	FAR SIDE
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.B.	GRADE BEAM
HORIZ.	HORIZONTAL
H.S.A.	HEADED STUD ANCHOR
IBC	INTERNATIONAL BUILDING CODE
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
N.S.	NEAR SIDE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
P.A.F.	POWER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
P.M.E.J.	PREMOLDED EXPANSION JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY.	QUANTITY
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
R.O.	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
S.D.S.	SELF-DRILLING SCREWS
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.P.	TOP OF PIER
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
WT.	WEIGHT
W.W.R.	WELDED WIRE REINFORCEMENT

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

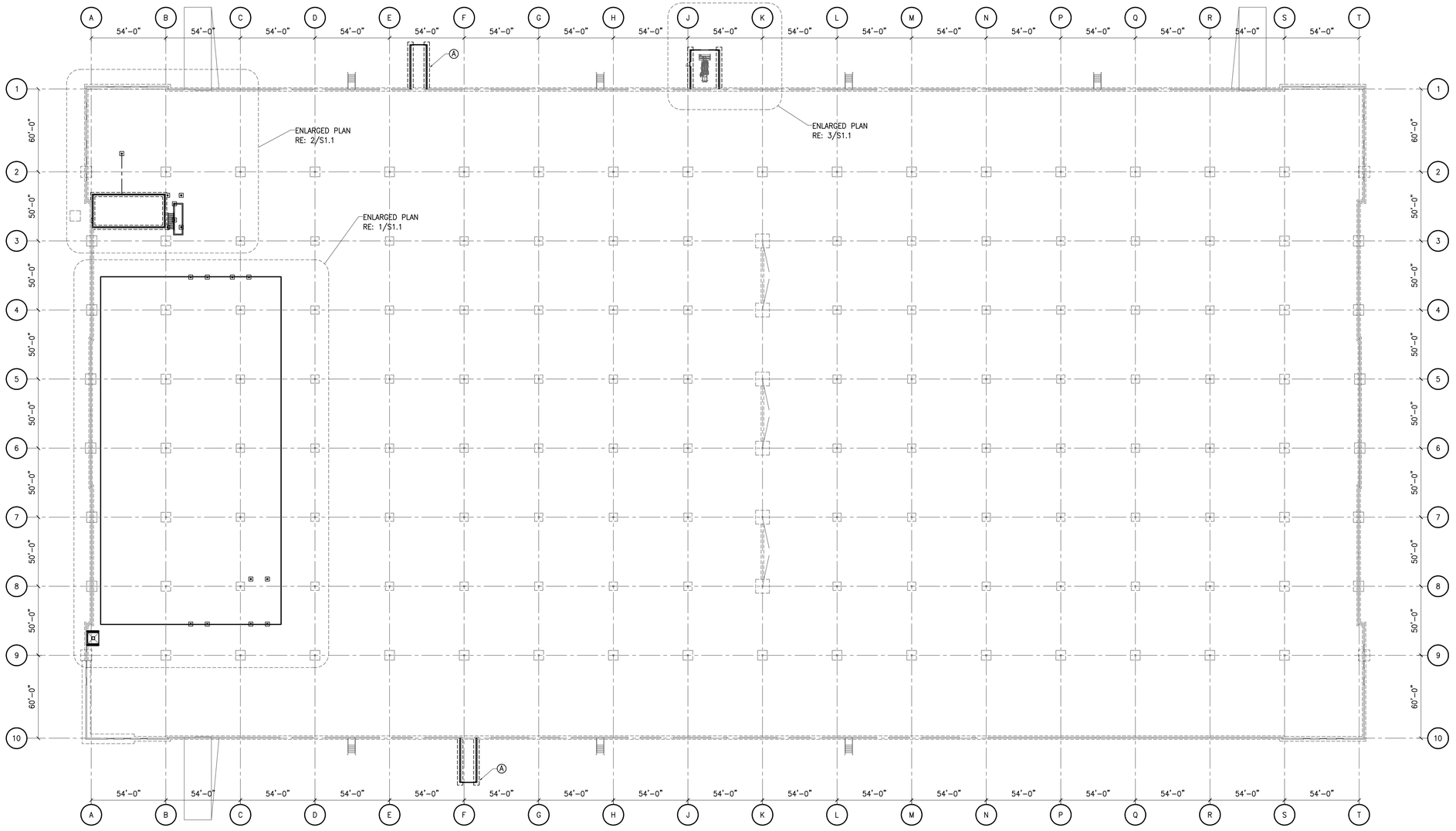
S0.1
GENERAL NOTES

PLAN NOTES

1. RE: 1/S3.2 FOR CMU WALL SECTIONS.

PLAN REFERENCE NOTES

Ⓐ 8" PRECAST WALL SCREEN AT COMPACTOR LOCATIONS, RE:1/S3.0 SIM. RE: ARCH FOR FINAL LOCATIONS.



1 OVERALL FOUNDATION PLAN
SCALE: 1"=40'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

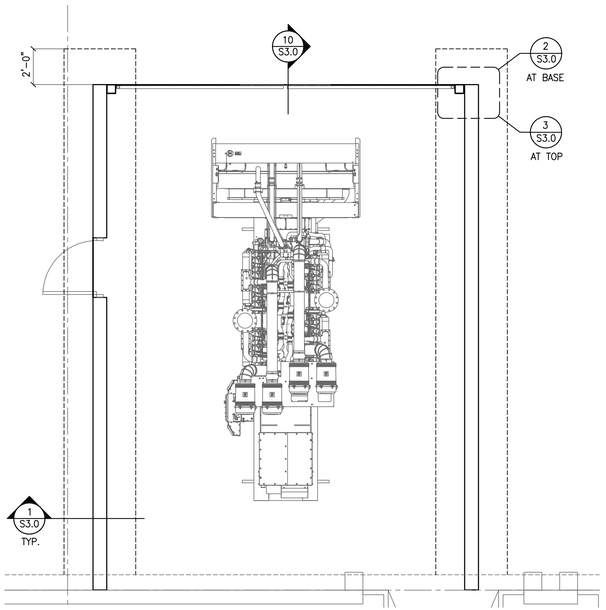
ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S1.0
OVERALL FOUNDATION PLAN

PLAN NOTES:

1. CONCRETE SLAB-ON-GRADE, SHALL BE A 8" THICK SLAB (U.N.O.) WITH #4 AT 18" O.C. EACH WAY PLACED 2" BELOW TOP OF CONCRETE OVER 4" ROCK, RE: THE GEOTECHNICAL REPORT. T.O. SLAB ELEV = 100'-0".
2. THE CONCRETE SLABS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE FINISHED STRUCTURE AND HAVE NOT BEEN DESIGNED FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, FORK LIFTS, MAN LIFTS, AND OTHER VEHICULAR TRAFFIC. THE CONTRACTOR SHALL VERIFY THE SLAB DESIGN MEETS THE CONSTRUCTION NEEDS AND SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW.
3. ALL PIPING OR CONDUITS THAT OCCUR THROUGH OR UNDER A GRADE BEAM OR FOOTING SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PLACEMENT.
4. RE: 8/S3.0 FOR REINFORCING LAP SCHEDULE.
5. VERIFY OVERALL SLAB DIMENSIONS WITH ARCH.



3 PARTIAL FOUNDATION PLAN AT GENERATOR ENCLOSURE
SCALE: 1/4"=1'-0"

PLAN REFERENCE NOTES:

Ⓐ PRE-ENGINEERED SHADE CANOPY BY OTHERS, RE: 4/S3.0 FOR CANOPY FOOTING SUPPORT. RE: ARCH FOR FINAL CANOPY LOCATION.

Ⓑ RE: 6/S3.0 FOR STAIR COLUMN FOOTING.

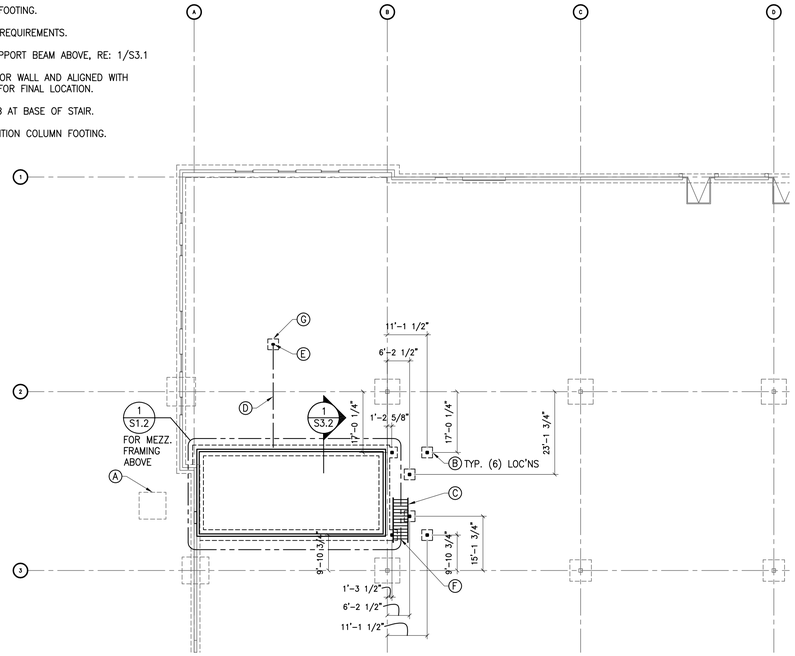
Ⓒ RE: 9/S4.0 FOR STAIR FRAMING REQUIREMENTS.

Ⓓ W18x40 OPERABLE PARTITION SUPPORT BEAM ABOVE, RE: 1/S3.1

Ⓔ HSS6x3x1/4 CENTERED IN INTERIOR WALL AND ALIGNED WITH OPERABLE PARTITION. RE: ARCH FOR FINAL LOCATION.

Ⓕ RE: 5/S3.0 FOR THICKENED SLAB AT BASE OF STAIR.

Ⓖ RE: 6/S3.0 FOR OPERABLE PARTITION COLUMN FOOTING.



2 ENLARGED PARTIAL FOUNDATION PLAN
SCALE: 1"=20'-0"

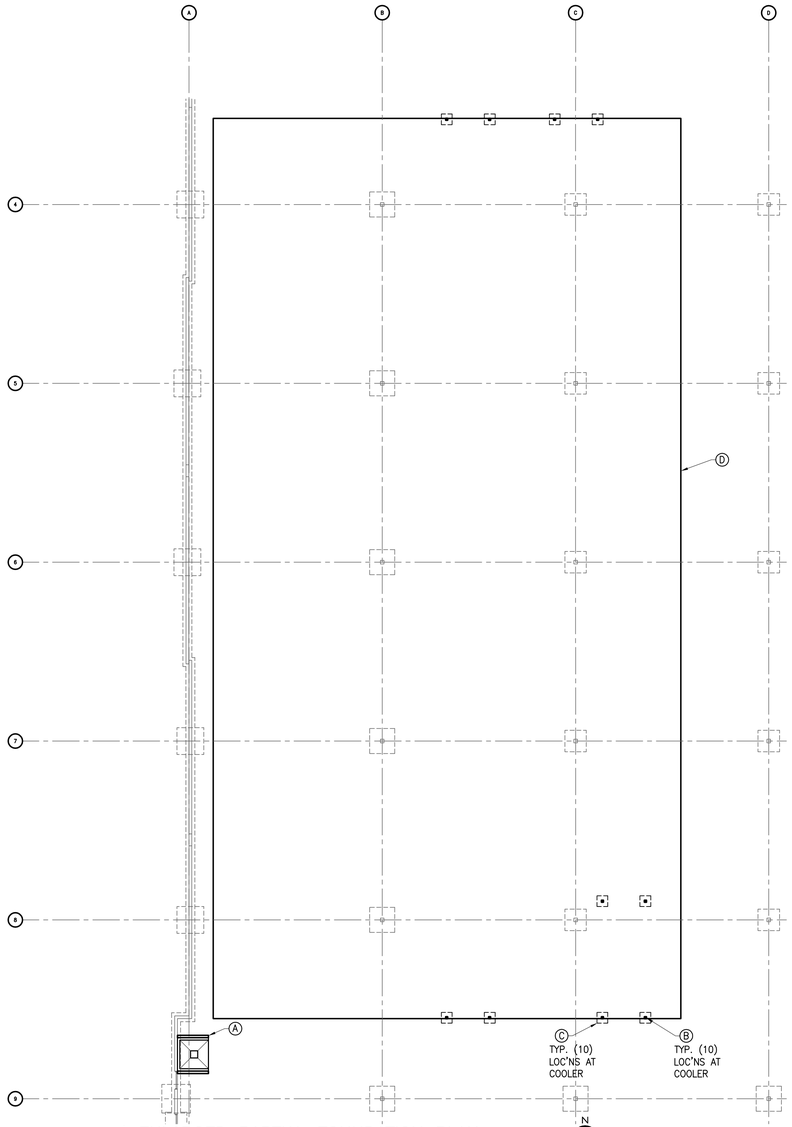
PLAN REFERENCE NOTES:

Ⓐ 8" CMU PARTITION WALL EACH SIDE OF SCRUBBER DUMP RE: 2/S3.2 AND ARCH.

Ⓑ HSS5x5x3/8 POST AT NEW HIGH SPEED OVERHEAD DOOR SUPPORTS. LOCATE WITHIN IMP WALL CAVITY. RE: ARCH FOR FINAL LOCATIONS.

Ⓒ RE: 6/S3.0 FOR POST SUPPORT FOOTING.

Ⓓ RE: 3/S3.1 FOR TYP. COOLER SLAB DETAIL. RE: 2/S3.1 FOR TYP. FREEZER SLAB DETAIL. RE: ARCH FOR EXTENTS. WHERE REFERENCED, SLAB-ON-GRADE SHALL BE A 8" THICK UNREINFORCED SLAB (U.N.O.) OVER 4" ROCK, RE: THE GEOTECHNICAL REPORT.



1 ENLARGED PARTIAL FOUNDATION PLAN
SCALE: 1"=20'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER

07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S1.1
ENLARGED PARTIAL FOUNDATION PLAN

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

07/11/2022

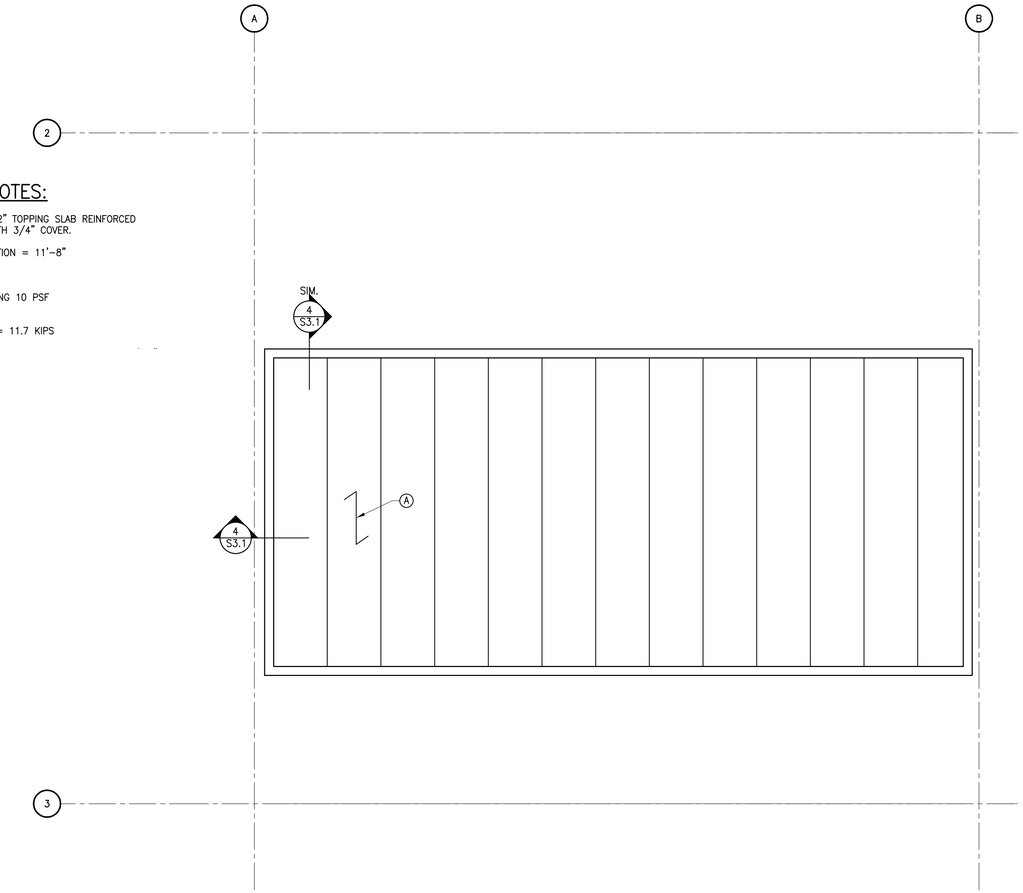
PLAN REFERENCE NOTES:

Ⓐ 8" HOLLOWCORE PLANKS WITH 2" TOPPING SLAB REINFORCED WITH 6x6–W2.9xW2.9 W.W.R. WITH 3/4" COVER.

T.O. FINISHED CONCRETE ELEVATION = 11'–8"

DESIGN LOADS:
DEAD LOAD = SELF–WEIGHT
MISC. UNDERHUNG 10 PSF
LIVE LOAD = 150 PSF

MAX. DIAPHRAGM EDGE FORCE = 11.7 KIPS



1 ENLARGED MEZZANINE FRAMING PLAN
SCALE: 3/16"=1'–0"

N

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

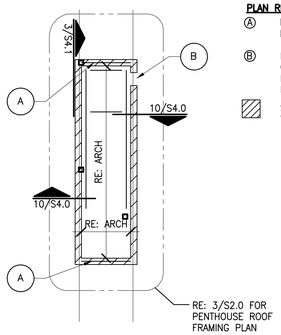
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S1.2
ENLARGED MEZZANINE ROOF FRAMING PLAN



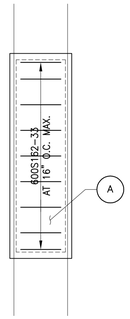
PLAN REFERENCE NOTES:

Ⓐ L8x8x1/2. WELD TO STEEL BAR JOISTS RE: 3/S4.0.

Ⓑ PROVIDE HEADER H1 AT NEW DOOR OPENING. RE: ARCH FOR FINAL LOCATION. RE: 2/S4.1 AND 2/S4.1 FOR HEADER REQUIREMENTS.

SHEAR WALL SW1. RE: 2/S4.2 FOR WALL FRAMING REQUIREMENTS.

2 PENTHOUSE FRAMING PLAN
SCALE: 1/8"



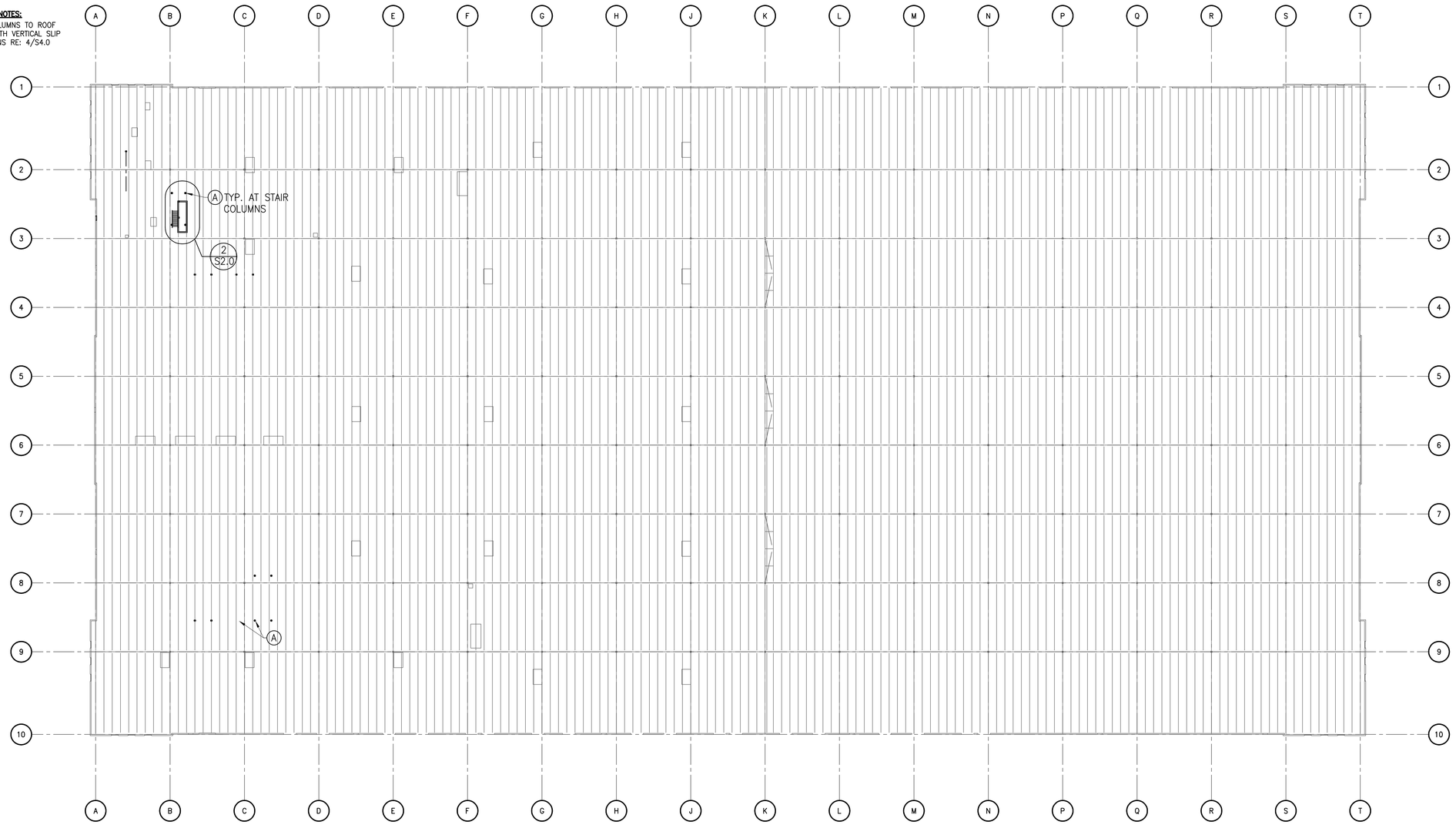
PLAN REFERENCE NOTES:

Ⓐ ROOF SHEATHING SHALL BE 5/8" STRUCTURAL 1 EXPOSURE 1 OSB. ROOF SHEATHING SHALL BE FASTENED WITH NO. 10 SCREWS AT 6" O.C. ALONG PANEL EDGES AND AT 12" O.C. IN THE FIELD. RUN PANELS PERPENDICULAR TO SUPPORTS AND STAGGER ENDS BY HALF PANEL LENGTH.

3 PENTHOUSE ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

PLAN REFERENCE NOTES:

Ⓐ ATTACH COLUMNS TO ROOF FRAMING WITH VERTICAL SLIP CONNECTIONS RE: 4/S4.0



1 OVERALL FRAMING PLAN
SCALE: 1"=40'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective
wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S2.0
OVERALL FRAMING PLAN

PLAN REFERENCE NOTES:

Ⓐ NEW ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB RE: 5/S4.0. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN IN ADDITION TO LOADING PREVIOUSLY INDICATED IN BASE DRAWINGS ISSUED JULY 15, 2022.

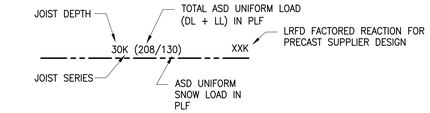
Ⓑ RE: 6/S4.0 FOR ADDITIONAL SPECIAL JOIST LOADING REQUIREMENTS. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN IN ADDITION TO LOADING PREVIOUSLY INDICATED IN BASE DRAWINGS ISSUED JULY 15, 2022.

Ⓒ NEW ROOF PENTHOUSE, RE: ARCH. FOR FINAL LOCATION. JOIST SUPPLIER SHALL ACCOUNT FOR LOADS SHOWN ON PLAN IN JOIST DESIGN IN ADDITION TO LOADING PREVIOUSLY INDICATED IN BASE DRAWINGS ISSUED JULY 15, 2022.

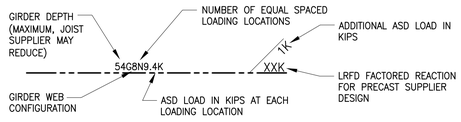
PLAN NOTES

1. VERIFY ALL WALL OPENING, DIMENSIONS, JOINTS, BLOCKOUTS, REVEALS AND FUTURE KNOCK OUT PANELS WITH ARCHITECTURAL DRAWINGS.
2. JOIST SHALL BE DESIGNED FOR ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB, RE: 5/S4.0. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
3. JOIST AND JOIST GIRDER DEPTHS SHALL BE LIMITED SO THAT 36'-0" CLEAR HEIGHT TO BOTTOM OF STRUCTURE IS MAINTAINED.
4. RE: 6/S4.0 FOR SPECIAL JOIST LOADS WHERE REFERENCED ON PLAN.

JOIST LEGEND



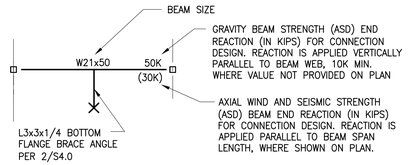
JOIST GIRDER LEGEND

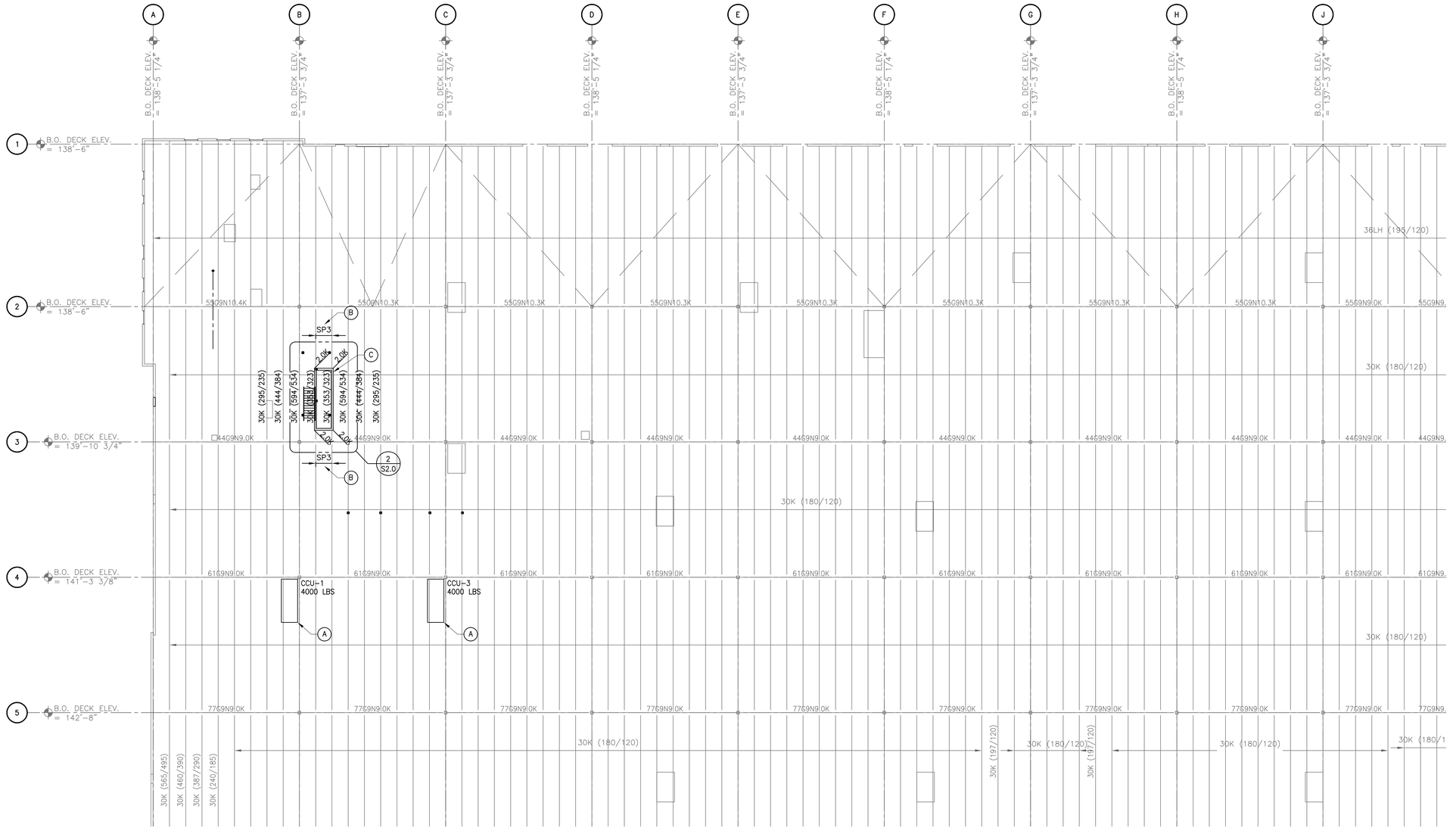


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN
SCALE: 1"=20'-0"

N

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

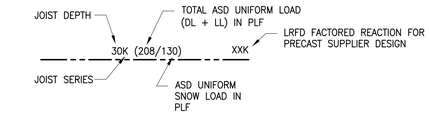
ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

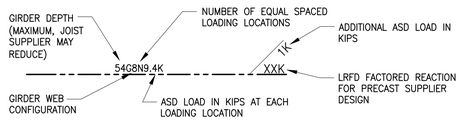
210300

S2.1
ENLARGED PARTIAL FRAMING PLAN

JOIST LEGEND



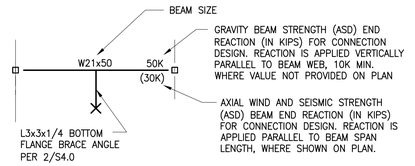
JOIST GIRDER LEGEND

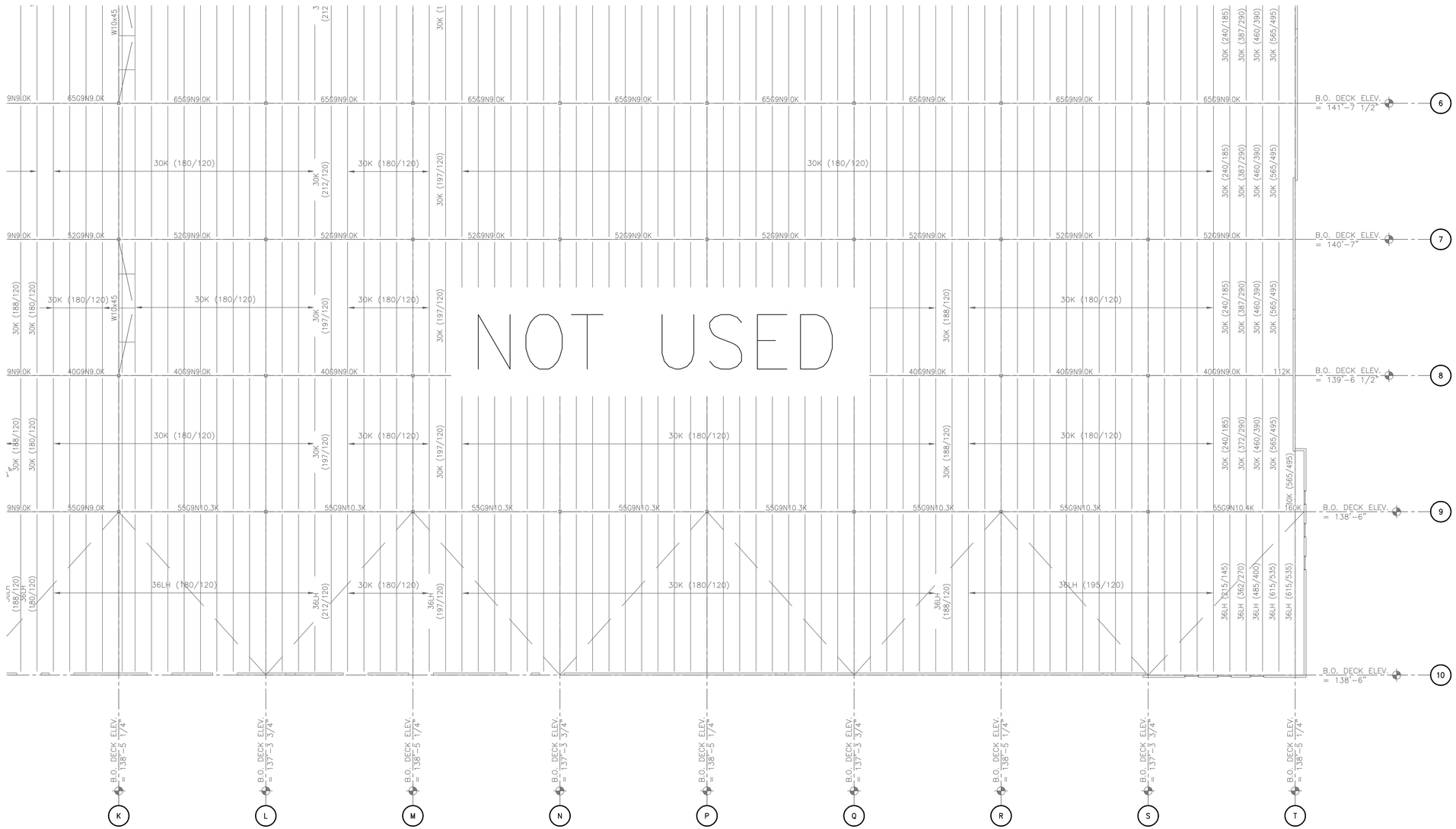


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN
SCALE: 1"=20'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective
wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

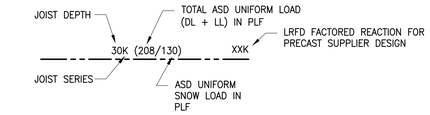
ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

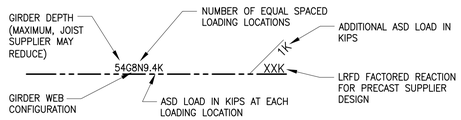
210300

S2.2
ENLARGED PARTIAL FRAMING PLAN

JOIST LEGEND



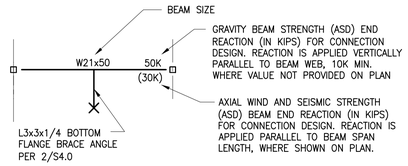
JOIST GIRDER LEGEND

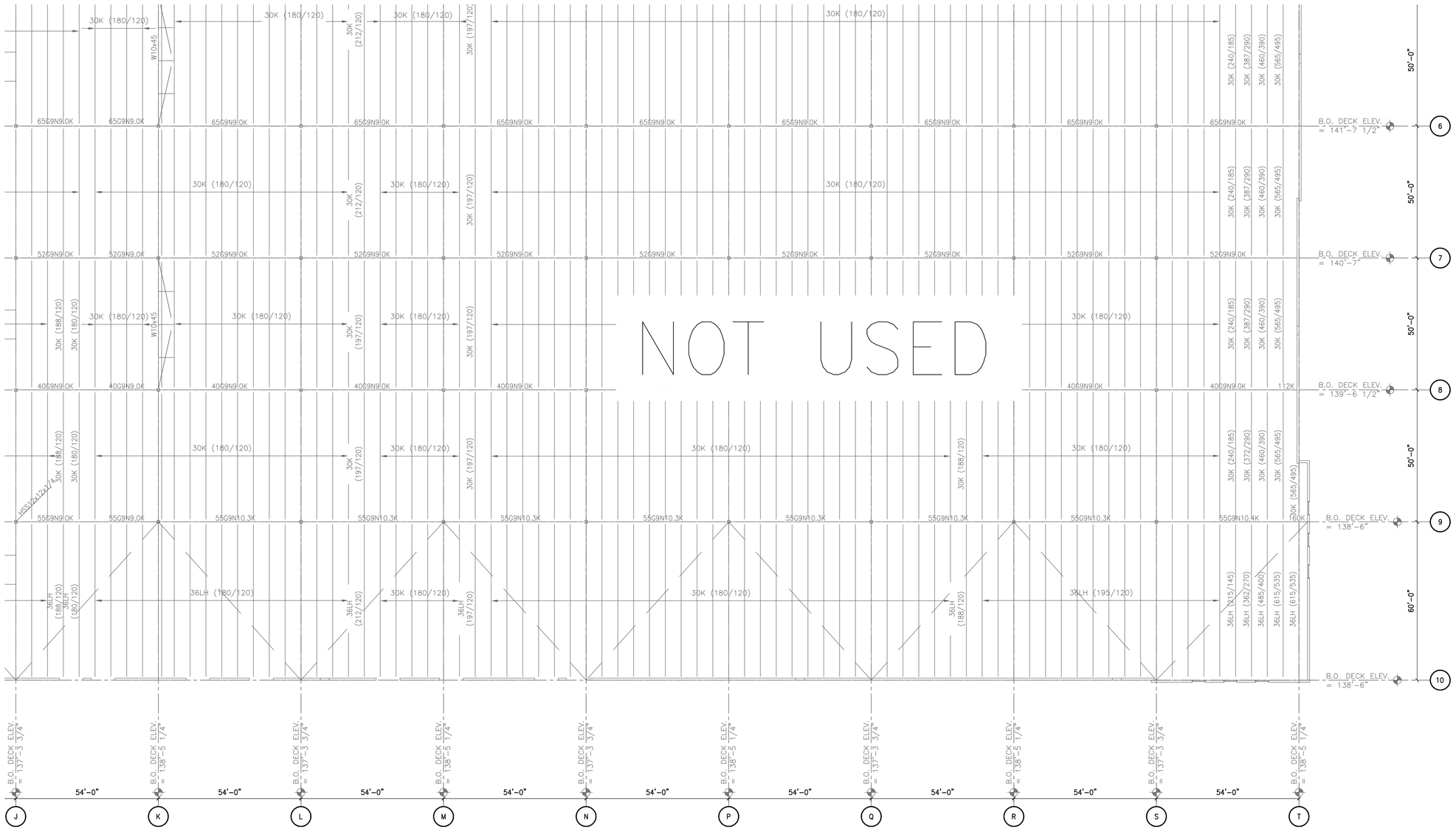


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 ENLARGED PARTIAL FRAMING PLAN
SCALE: 1"=20'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S2.3
ENLARGED PARTIAL FRAMING PLAN

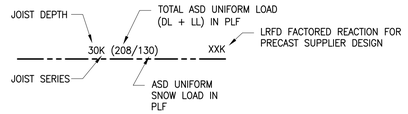
PLAN REFERENCE NOTES:

Ⓐ NEW ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB RE: 5/S4.0. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN IN ADDITION TO LOADING PREVIOUSLY INDICATED IN BASE DRAWINGS ISSUED JULY 15, 2022.

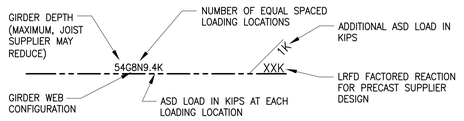
PLAN NOTES

1. VERIFY ALL WALL OPENING, DIMENSIONS, JOINTS, BLOCKOUTS, REVEALS AND FUTURE KNOCK OUT PANELS WITH ARCHITECTURAL DRAWINGS.
2. JOIST SHALL BE DESIGNED FOR ROOF TOP EQUIPMENT, RE: ARCH./MEP. PROVIDE ANGLE FRAME AND CURB, RE: 5/S4.0. JOIST SUPPLIER SHALL ACCOUNT FOR LOAD SHOWN ON PLAN IN JOIST DESIGN.
3. JOIST AND JOIST GIRDER DEPTHS SHALL BE LIMITED SO THAT 36'-0" CLEAR HEIGHT TO BOTTOM OF STRUCTURE IS MAINTAINED.
4. RE: 6/S4.0 FOR SPECIAL JOIST LOADS WHERE REFERENCED ON PLAN.

JOIST LEGEND



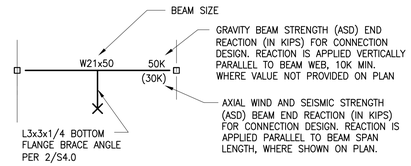
JOIST GIRDER LEGEND

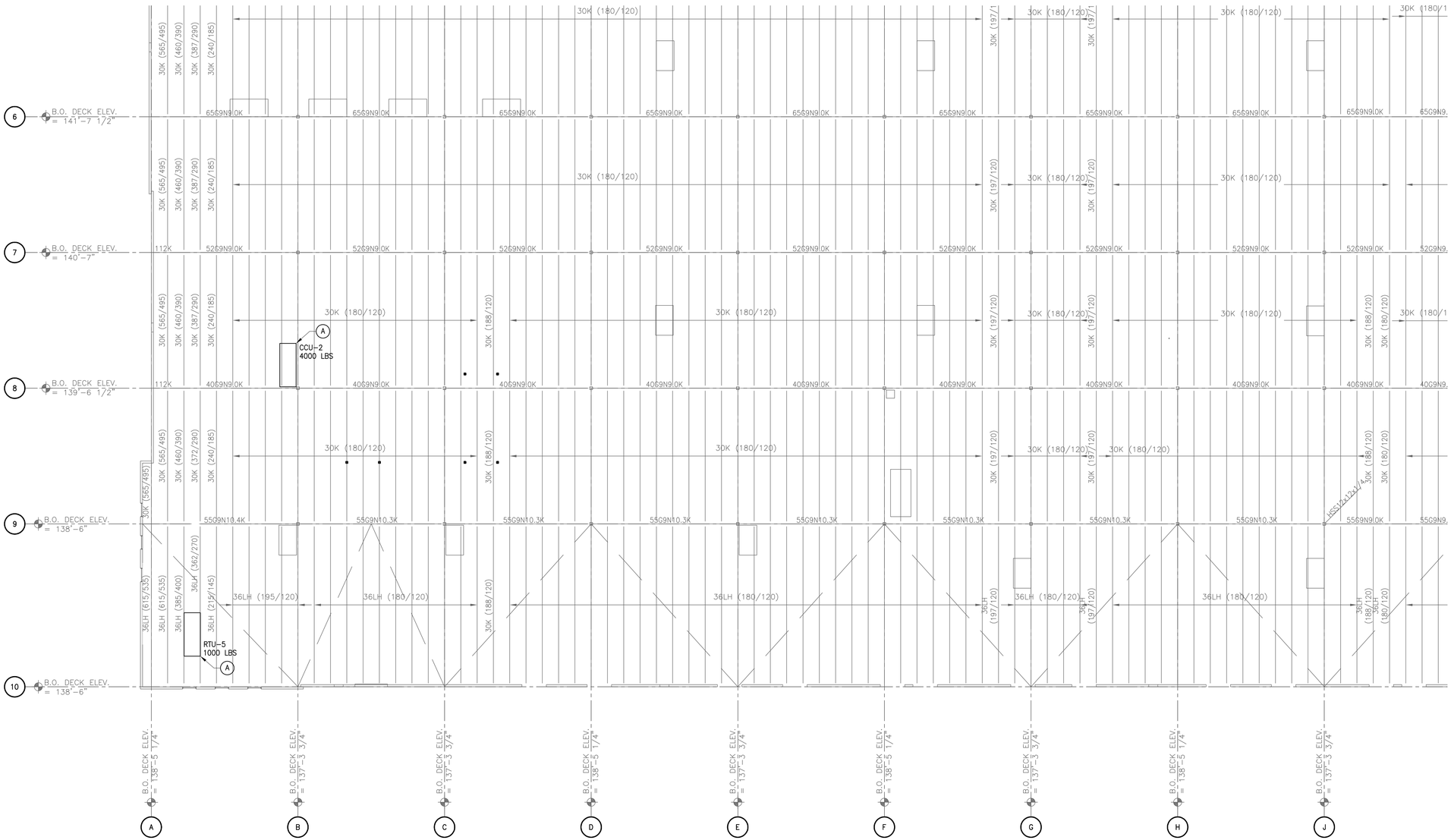


BEAM REACTION LEGEND

STEEL FABRICATOR SHALL DESIGN THE BEAM CONNECTIONS FOR THE STRENGTH LEVEL LOADS (ASD) SHOWN ON THIS PLAN, TYP. (RE: 1/S4.0)

USE MINIMUM TWO BOLT CONNECTION





1 **ENLARGED PARTIAL FRAMING PLAN**
SCALE: 1"=20'-0"

N

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
TENANT IMPROVEMENTS

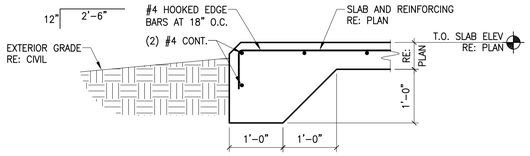
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

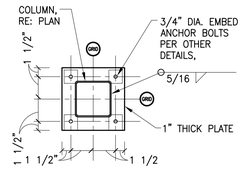
ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

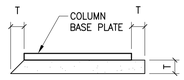
S2.4
ENLARGED PARTIAL FRAMING PLAN



10 FOUNDATION SECTION
3/4" = 1'-0"

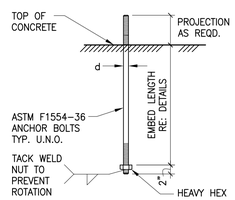


TYP. BASE PLATE



GROUT MAY BE BEVELED OR FORMED BUT SHALL EXTEND A MIN. OF "T" BEYOND FACE OF BASE PLATE. "T" = 1 1/2" FOR ANCHOR BOLT DIA. UP TO 1" AND 2 1/2" FOR 1 1/4" DIA. ANCHOR BOLT.

GROUT PLACEMENT
NO SCALE

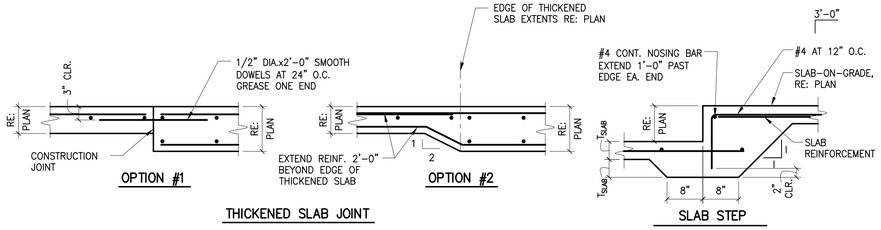


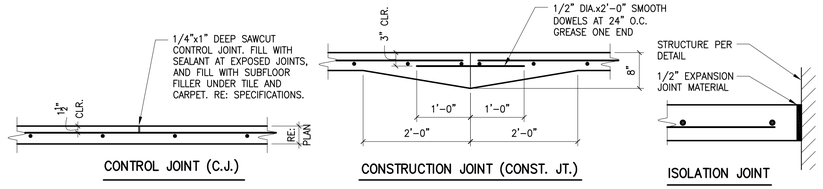
ANCHOR ROD
NO SCALE

9 ANCHOR ROD EMBEDMENT/BASE PLATE DIAGRAM

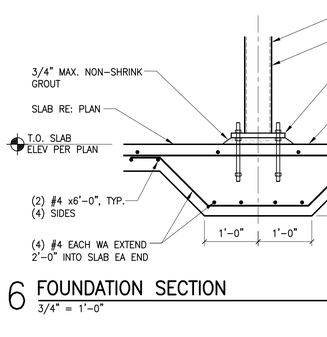
STEEL REINF. LAP SCHEDULE (INCHES)						
BAR SIZE	CONCRETE					
	f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	22	17	20	16	17	13
#4	29	22	27	21	23	17
#5	36	28	33	26	28	22
#6	43	33	40	31	34	26
#7	63	48	58	45	49	38
#8	72	55	66	51	56	43
#9	91	70	79	61	71	54

8 CONC. LAP SCHEDULE
3/4" = 1'-0"

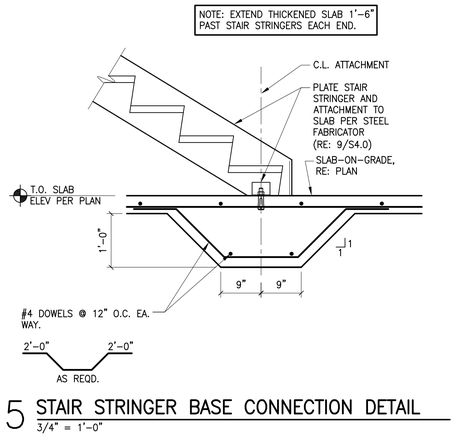




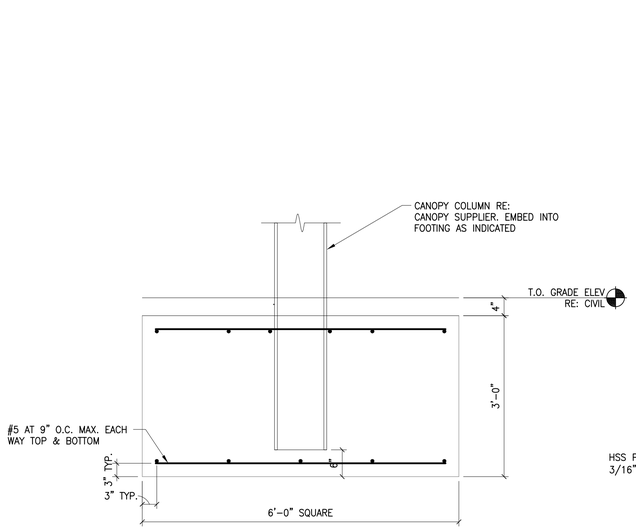
7 SLAB-ON-GRADE DETAILS
3/4" = 1'-0"



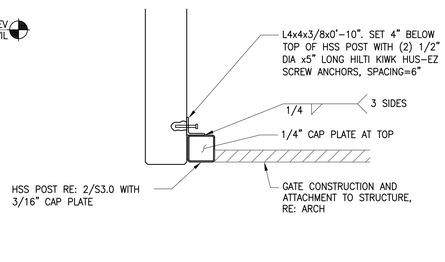
6 FOUNDATION SECTION
3/4" = 1'-0"



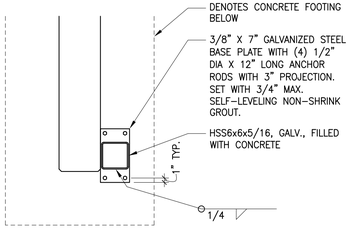
5 STAIR STRINGER BASE CONNECTION DETAIL
3/4" = 1'-0"



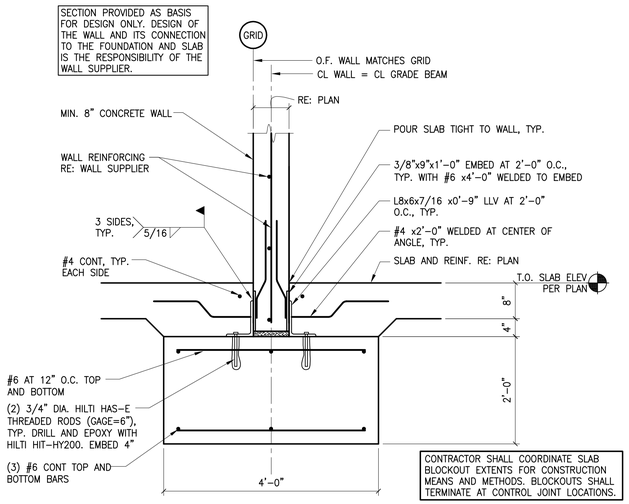
4 FOUNDATION SECTION
3/4" = 1'-0"



3 GATE ENCLOSURE SECTION
3/4" = 1'-0"



2 GATE ENCLOSURE FOUNDATION SECTION
3/4" = 1'-0"



1 GENERATOR ENCLOSURE WALL SECTION
3/4" = 1'-0"

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective
wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

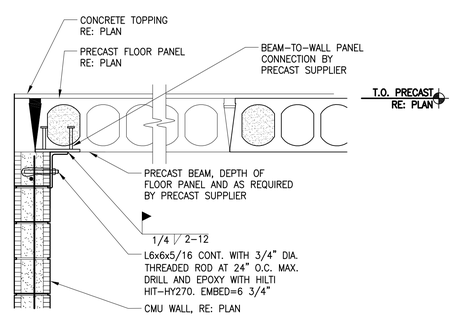
210300

S3.0
FOUNDATION DETAILS

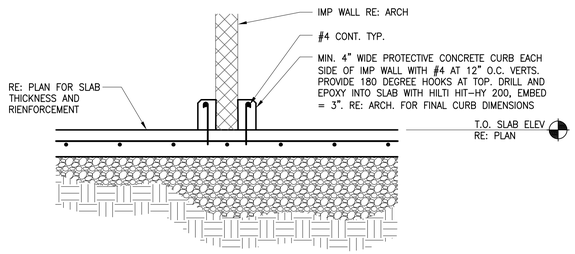
CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

CERTIFICATION

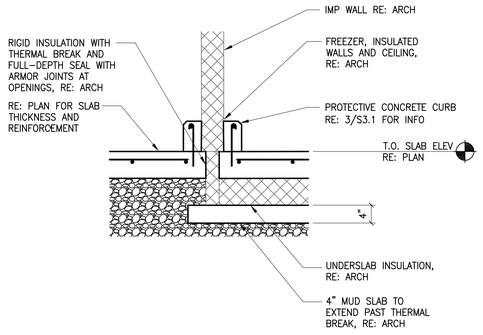
07/11/2022



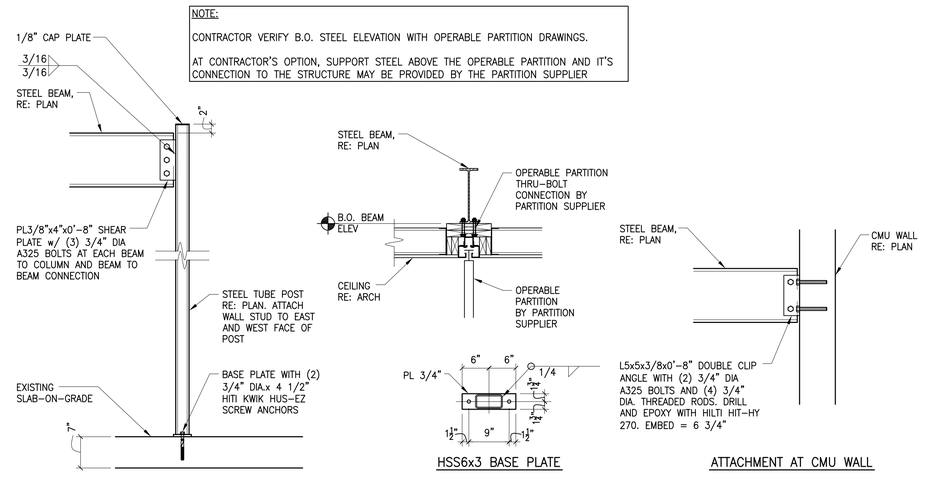
4 FRAMING SECTION
SCALE: 3/4"=1'-0"



3 COOLER FOUNDATION SECTION
3/4" = 1'-0"



2 FREEZER FOUNDATION SECTION
3/4" = 1'-0"



1 OPERABLE PARTITION CONNECTION DETAILS
3/4" = 1'-0"

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS
BUILDING A LOT I
TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

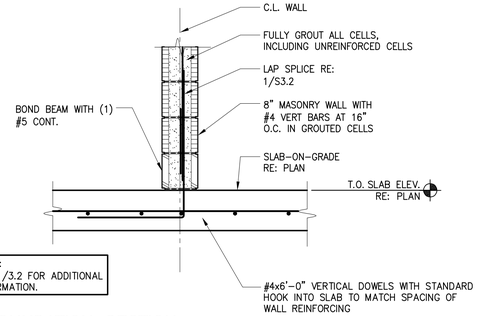
ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S3.1
FRAMING DETAILS

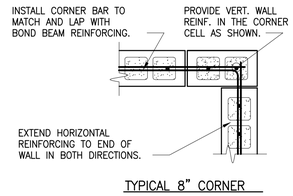
MASONRY REINFORCING LAP SCHEDULE * (ACI 530-05) (IBC 2006)						
BAR SIZE	8" BLOCK		10" BLOCK		12" BLOCK	
	SINGLE REINF.	DOUBLE REINF.	SINGLE REINF.	DOUBLE REINF.	SINGLE REINF.	DOUBLE REINF.
#3	16"	16"	16"	16"	16"	16"
#4	21"	23"	21"	21"	21"	21"
#5	26"	36"	26"	30"	26"	26"
#6	43"	70"	40"	56"	40	43"
#7	60"	98"	46"	79"	46"	60"
#8	92"	151"	71"	121"	61"	92"

* BASED ON f'm = 1500 PSI



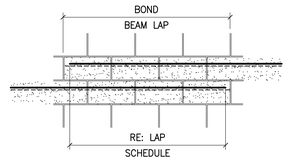
2 FOUNDATION SECTION
3/4" = 1'-0"

CMU VERTICAL REINFORCING SCHEDULE	
MW-1	8" CMU W/ (1)-#5 VERT. AT 8" O.C. WITH (1)-#4 DOWEL TO MATCH.
	* PROVIDE HIGH STRENGTH BLOCK - fm = 2000 PSF

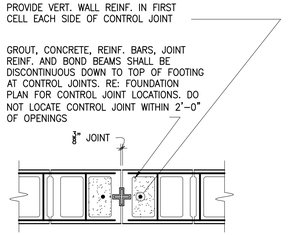


TYPICAL 8" CORNER

CORNER DETAIL



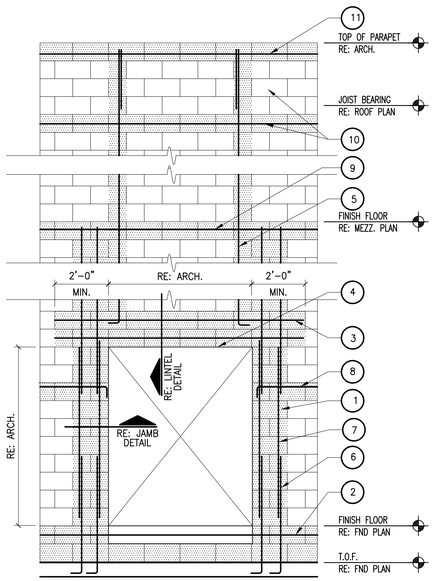
BOND BEAM STEP (NOT AT CONTROL JOINT)



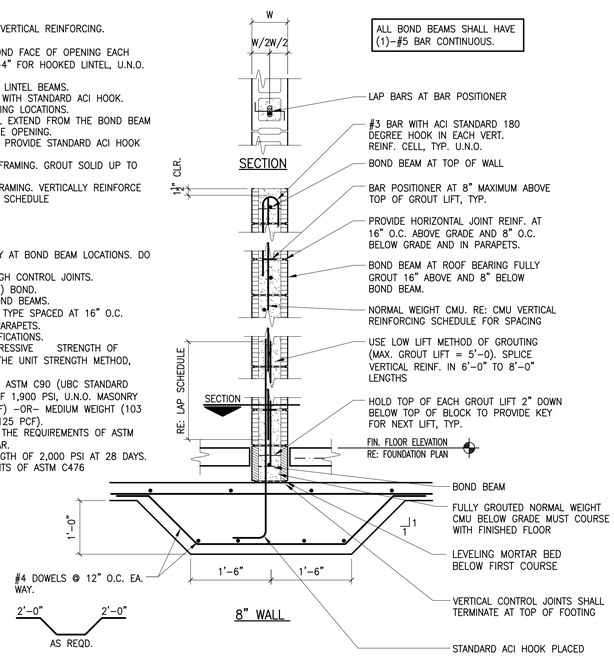
EXPANSION/CONTROL JOINT DETAIL

NOTES:
1. REFER CMU REINFORCING DIAGRAM FOR SPLICES IN VERTICAL REINFORCING.
2. BOND BEAM.
3. EXTEND GROUTED LINTEL A MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT LINTEL REINFORCEMENT AND 1'-4" FOR HOOKED LINTEL, U.N.O. REINFORCEMENT WITH STANDARD ACI HOOK.
4. USE LINTEL BLOCKS ONLY FOR BOTTOM COURSE OF LINTEL BEAMS.
5. CONTINUE VERTICAL REINFORCING INTO LINTEL BEAM WITH STANDARD ACI HOOK.
6. PROVIDE DOWELS TO MATCH ALL VERTICAL REINFORCING LOCATIONS.
7. ALL VERTICAL BARS AT JAMBS AND PILASTERS SHALL EXTEND FROM THE BOND BEAM BELOW THE OPENING TO THE BOND BEAM ABOVE THE OPENING.
8. CONTINUE HORIZONTAL REINFORCING INTO JAMB AND PROVIDE STANDARD ACI HOOK INTO END CELL.
9. BOND BEAM AT FIRST FULL COURSE BELOW FLOOR FRAMING. GROUT SOLID UP TO FIRST FULL COURSE ABOVE FINISH FLOOR.
10. BOND BEAM AT FIRST FULL COURSE BELOW ROOF FRAMING. VERTICALLY REINFORCE AND GROUT UP TO TOP OF WALL PER REINFORCING SCHEDULE
11. BOND BEAM AT TOP OF WALL.

GENERAL NOTES:
12. GROUT SOLID ALL CELLS WITH REINFORCING.
13. USE BOND BEAM BLOCKS WITH OPEN BOTTOMS ONLY AT BOND BEAM LOCATIONS. DO NOT USE TROUGH-TYPE BLOCKS AT BOND BEAMS.
14. DO NOT CONTINUE BOND BEAM REINFORCING THROUGH CONTROL JOINTS.
15. ALL MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
16. REFER TO DETAILS FOR LOCATION OF ADDITIONAL BOND BEAMS.
17. HORIZ. JOINT REINFORCING SHALL BE GALV. LADDER TYPE SPACED AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE AND IN PARAPETS.
18. MASONRY REQUIRES SPECIAL INSPECTION. RE: SPECIFICATIONS.
19. MASONRY DESIGN IS BASED UPON A MINIMUM COMPRESSIVE STRENGTH OF f'm=1500 PSI, ESTABLISHED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD, U.N.O.
20. MASONRY UNITS SHALL MEET THE REQUIREMENTS OF ASTM C90 (UBC STANDARD 21-4) WITH A NET AREA COMPRESSIVE STRENGTH OF 1,900 PSI, U.N.O. MASONRY UNITS SHALL BE LIGHT WEIGHT (LESS THAN 105 PCF) -OR- MEDIUM WEIGHT (103 TO 125 PCF) -OR- NORMAL WEIGHT (MORE THAN 125 PCF).
21. MORTAR SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C270 (USE STANDARD 21-15) FOR TYPE "S" MORTAR.
22. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS. BATCHING AND MIXING SHALL MEET THE REQUIREMENTS OF ASTM C476 (UBC STANDARD 21-19)



1 CMU WALL REINFORCING DIAGRAM
3/4" = 1'-0"



CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

wallace design collective
wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S3.2
FOUNDATION DETAILS

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

CERTIFICATION

07/11/2022

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1 TENANT IMPROVEMENTS

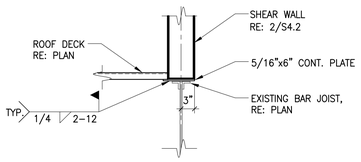
NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S4.0
FRAMING DETAILS



10 PENTHOUSE BASE DETAIL
3/4" = 1'-0"

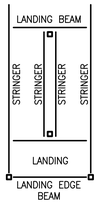
NOTES:

1. STAIR FRAMING IS FOR GRAPHICAL PURPOSES ONLY. STEEL FABRICATOR SHALL COORDINATE DIMENSIONS AND LOCATION OF STAIR WITH THE ENTIRE CONSTRUCTION DOCUMENTS AND NOT SOLELY THE STRUCTURAL PORTION ONLY.

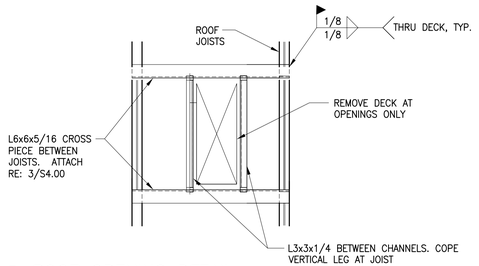
   STAIR FRAMING, STRINGERS, TREADS, HANDRAILS, LANDINGS AND CONNECTION DETAILING AND DESIGN SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR. STEEL FABRICATOR SHALL INCLUDE THE DESIGN FOR ANY ATTACHMENTS TO THE BUILDINGS, FOUNDATIONS OR DIAPHRAGMS. DESIGN LOADS SHALL BE COORDINATED WITH THE ENGINEER OF RECORD. IF ADDITIONAL COLUMNS OR POSTS ARE REQUIRED WHERE NOT EXPLICITLY SHOWN, STEEL FABRICATOR SHALL COORDINATE ADDITIONAL FOOTINGS OR ATTACHMENT TO BEAMS WITH GENERAL CONTRACTOR AND ENGINEER OF RECORD. THE DESIGN IS A DEFERRED SUBMITTAL AND SHALL BE SUBMITTED FOR REVIEW AS SET FORTH IN THE STRUCTURAL GENERAL NOTES.

   MINIMUM MEMBER SIZES ARE AS NOTED BELOW:

STRINGER:	C12x20.7
HEADER:	C8x11.5
LANDING	LANDING EDGE BEAMS: C8x11.5
INT. STAIR PAN:	14 ga
INT. LANDING DECK:	2" VLI 20 ga (MIN 4" TOTAL THICKNESS)

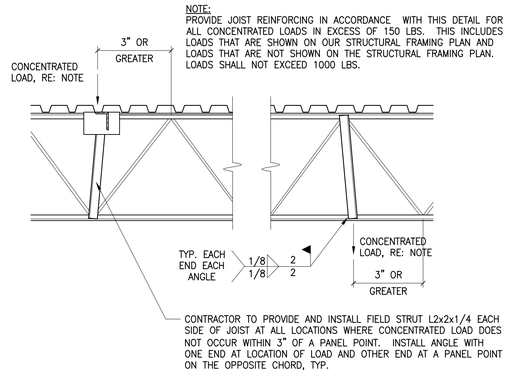


9 STAIR FRAMING DETAIL
3/4" = 1'-0"



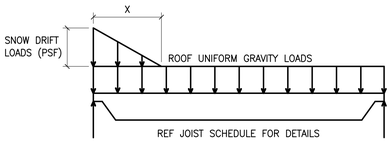
8 ROOF OPENING DETAIL
3/4" = 1'-0"

NOTE:
PROVIDE JOIST REINFORCING IN ACCORDANCE WITH THIS DETAIL FOR ALL CONCENTRATED LOADS IN EXCESS OF 150 LBS. THIS INCLUDES LOADS THAT ARE SHOWN ON OUR STRUCTURAL FRAMING PLAN AND LOADS THAT ARE NOT SHOWN ON THE STRUCTURAL FRAMING PLAN. LOADS SHALL NOT EXCEED 1000 LBS.



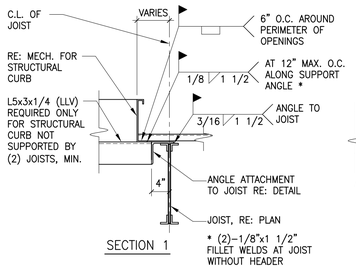
7 JOIST REINFORCING DETAIL
3/4" = 1'-0"

SPECIAL JOIST LOADS		
MARK	SNOW DRIFT (PSF)	SNOW WIDTH (X)
SP3	72	17'-0"

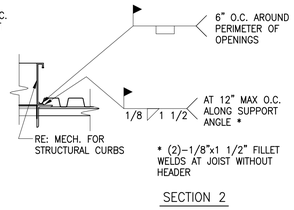


JOIST DIAGRAM

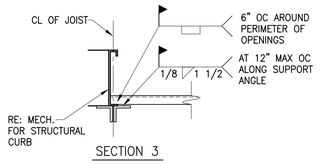
6 SPECIAL JOIST SCHEDULE
3/4" = 1'-0"



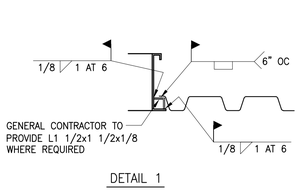
SECTION 1



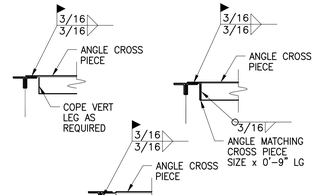
SECTION 2



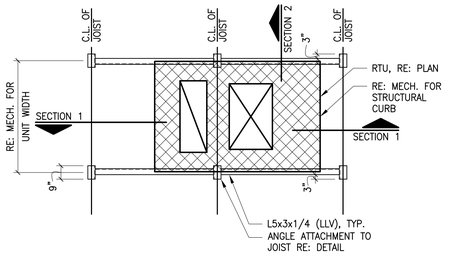
SECTION 3



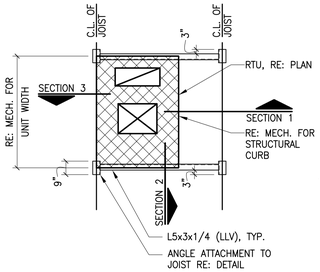
DETAIL 1



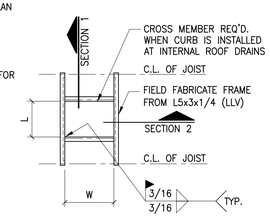
ANGLE ATTACHMENT TO JOIST DETAIL



TYP. AT UNIT SPANNING MULTIPLE JOISTS



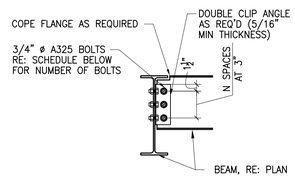
TYP. AT UNIT BETWEEN JOISTS

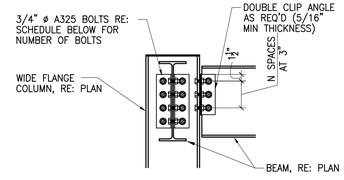


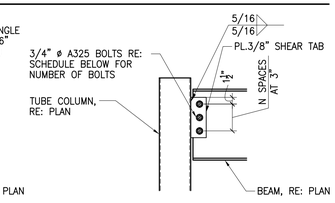
OPENING IN ROOF LARGER THAN 10"x10"

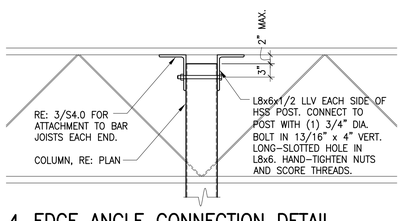
5 MECHANICAL UNIT SUPPORT DETAIL
3/4" = 1'-0"

NOTES:
1. INSTALL CURBS, HEADERS, AND FRAMES AND WELD TO SUPPORT STEEL BEFORE DECK IS PLACED.
2. DESIGN JOISTS SUPPORTING RTU'S FOR TWO POINT LOADS. THE LOCATION OF THE LOADS AND THE SPACING BETWEEN THEM VARY. RE: RTU JOIST DIAGRAM THIS DETAIL AND ROOF FRAMING PLAN FOR POINT LOADS AND LOCATIONS.
3. RTU CURBS SHALL BE STRUCTURAL, DESIGNED TO SPAN BETWEEN JOISTS AND SUPPORT EDGES OF DECK. CURBS TO BE FABRICATED WITH LEDGE ANGLES (L2x2x1/4) AT MECHANICAL OPENINGS TO SUPPORT METAL DECK INSIDE OPENING NOT USED BY SUPPLY OR RETURN DUCT WORK. HEADERS ARE NOT REQUIRED FOR STRUCTURAL CURBS EXCEPT WHEN THE CURB DOES NOT SPAN BETWEEN TWO JOISTS OR THE CURB CANTILEVERS MORE THAN TWO FEET PAST JOIST.
4. ATTACH DECK AROUND OPENING PER ROOF DIAPHRAGM CONNECTION DETAIL.
5. IF CURB IS NOT PLACED WITHIN 3" OF A JOIST PANEL POINT, RE: JOIST REINFORCING DETAIL RE: 7/S4.0.
6. GENERAL CONTRACTOR SHALL COORDINATE RTU DIMENSIONS AND FRAMING LOCATIONS WITH THE STEEL FABRICATOR, MECHANICAL, AND ERECTION SUBCONTRACTORS.
7. STEEL SUPPLIER TO FURNISH STOCK ANGLE FOR FIELD FABRICATED SUPPORT FRAMES.
8. RE: DETAIL 1 FOR CONN. OF DECK PARALLEL TO CURB (WHERE REQ'D.).
9. RE: MECH. FOR ROOF TOP UNIT ANCHORAGE TO CURBS.

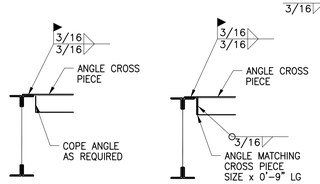




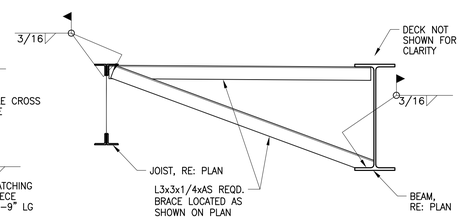




4 EDGE ANGLE CONNECTION DETAIL
3/4" = 1'-0"



3 ANGLE CONNECTION DETAILS
3/4" = 1'-0"



2 BOTTOM FLANGE BRACING DETAIL
3/4" = 1'-0"

BEAMS AND BOLTS		
BEAM,S	NUMBER OF BOLTS	NOTE:
W8/W10	(2)	PROVIDE STANDARD ROUND OR HORIZONTAL SHORT SLOTTED HOLES IN THE CONNECTOR PLATE. TIGHTEN BOLTS TO A SNUG CONDITION. TYPICAL AT ALL BM. TO BM. CONNECTIONS UNLESS NOTED OTHERWISE
W12/W14	(3)	
W16/W18	(4)	
W21/W24	(5)	
W27/W30	(6)	

NOTES:
1. ALL CONNECTIONS ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
2. CONNECTIONS SHOWN ARE FOR REFERENCE ONLY. FABRICATOR MAY USE OTHER AISC APPROVED CONNECTIONS.
3. ALL BOLTS SHALL BE 3/4" DIAMETER A325 w/ HEAVY HEX NUTS, UNLESS NOTED OTHERWISE.
4. ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS AND SHALL BE SNUG TIGHTENED UNLESS NOTED OTHERWISE.
5. FOR BEAMS WITH AXIAL REACTIONS PER PLAN, CONNECTIONS SHALL BE DESIGNED AS FULLY TENSIONED SLIP CRITICAL PER AISC SPECIFICATIONS.

1 BEAM CONNECTION DETAIL
3/4" = 1'-0"

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

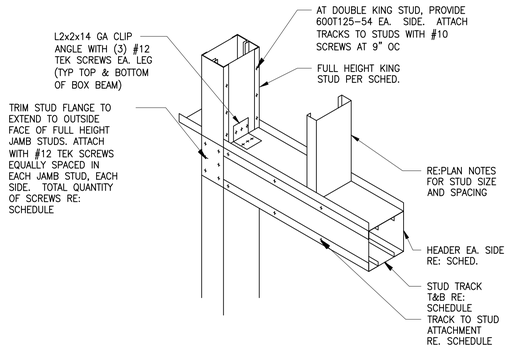
wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

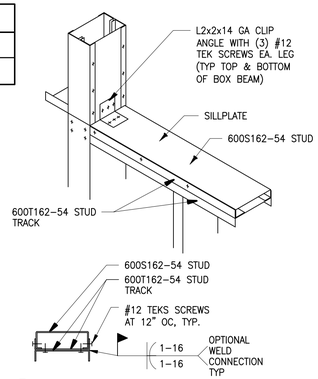
CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022

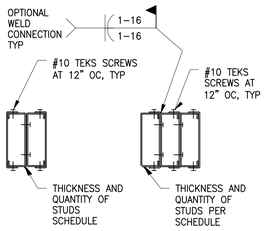
STRUCTURAL HEADER AND JAMB SCHEDULE				
MARK	OPENING	HEADER	KING STUDS	SCREW QUANTITY
H1	RE: PLAN	(2) 600S162-33	(2) 600S162-33	(8) 1/4" SCREWS



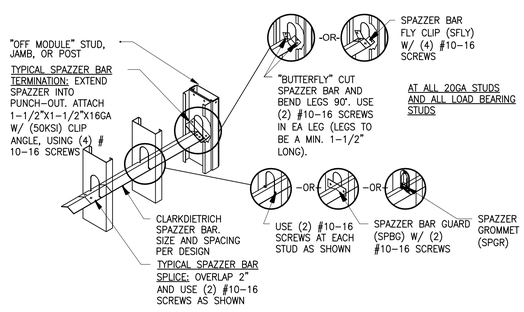
F HEADER CONNECTION



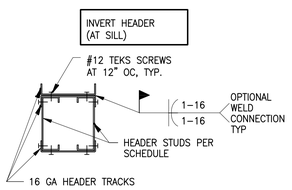
G SILL PLATE ASSEMBLY AND CONNECTION



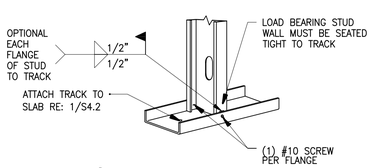
E BUILT-UP JAMB ASSEMBLY



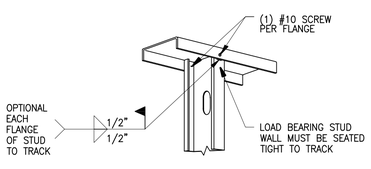
C WALL BRIDGING DETAIL



D HEADER ASSEMBLY

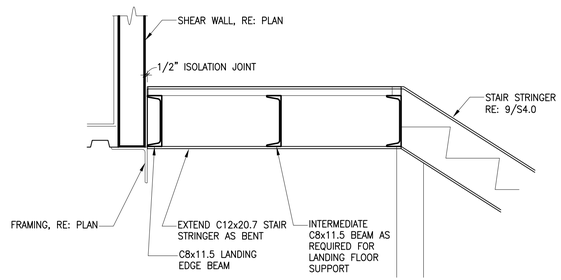


A STUD TO TRACK AT BOTTOM

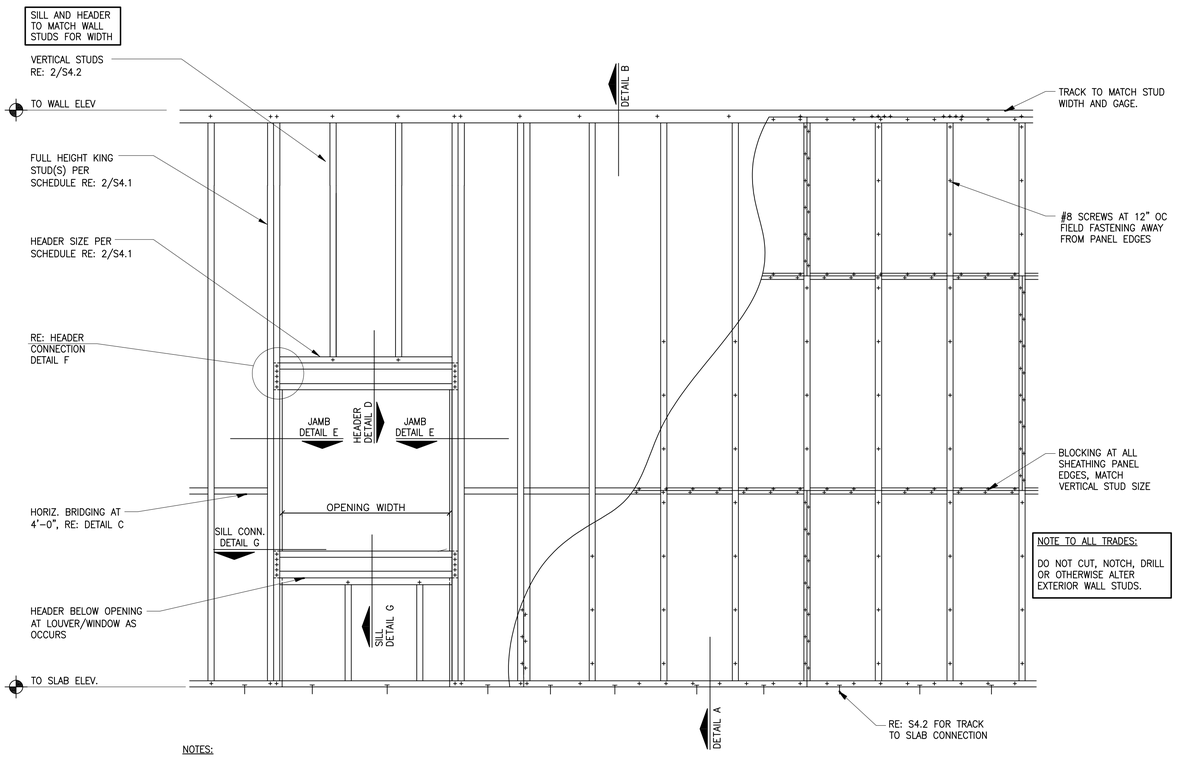


B STUD TO TRACK AT TOP

2 FRAMING SECTION
3/4" = 1'-0"



3 STAIR LANDING SECTION
3/4" = 1'-0"



NOTES:

1. WALL STUDS SHALL BE CONTINUOUS FROM BOTTOM TRACK TO TOP TRACK.
2. RE: 2/S4.1 FOR REFERENCED DETAILS.

1 FRAMING SECTION
3/4" = 1'-0"

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S4.1
FRAMING DETAILS

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

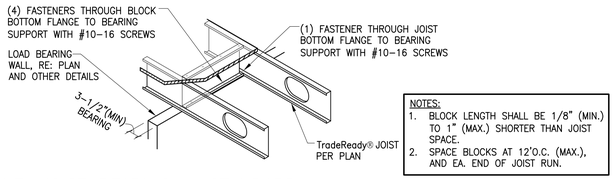
SCANNELL PROPERTIES

wallace design collective

wallace design collective, pc
structural · civil · landscape · survey
1703 wyandotte street, suite 200
kansas city, missouri 64108
816.421.8282 · 800.364.5858

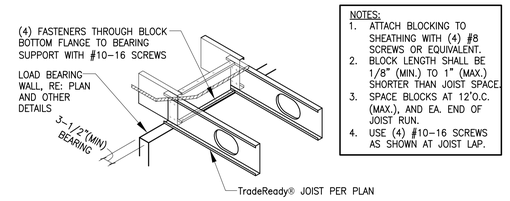
CERTIFICATION

STATE OF MISSOURI
JAMES M. GRANICH
NUMBER PE-2014023909
PROFESSIONAL ENGINEER
07/11/2022



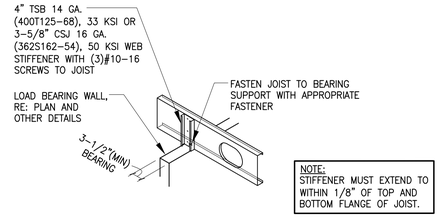
NOTES:
1. BLOCK LENGTH SHALL BE 1/8" (MIN.) TO 1" (MAX.) SHORTER THAN JOIST SPACE.
2. SPACE BLOCKS AT 12'O.C. (MAX.), AND EA. END OF JOIST RUN.

9 INT. JOIST BEARING – STANDARD
N.T.S.



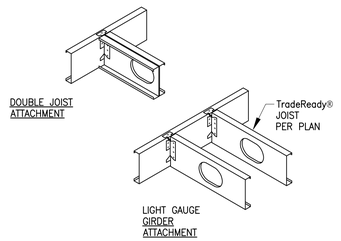
NOTES:
1. ATTACH BLOCKING TO SHEATHING WITH (4) #8 SCREWS OR EQUIVALENT.
2. BLOCK LENGTH SHALL BE 1/8" (MIN.) TO 1" (MAX.) SHORTER THAN JOIST SPACE.
3. SPACE BLOCKS AT 12'O.C. (MAX.), AND EA. END OF JOIST RUN.
4. USE (4) #10-16 SCREWS AS SHOWN AT JOIST LAP.

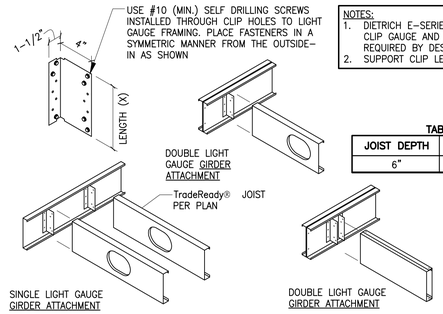
8 JOIST LAP – STANDARD
N.T.S.



NOTE:
STIFFENER MUST EXTEND TO WITHIN 1/8" OF TOP AND BOTTOM FLANGE OF JOIST.

7 WEB STIFFENER – STANDARD
N.T.S.





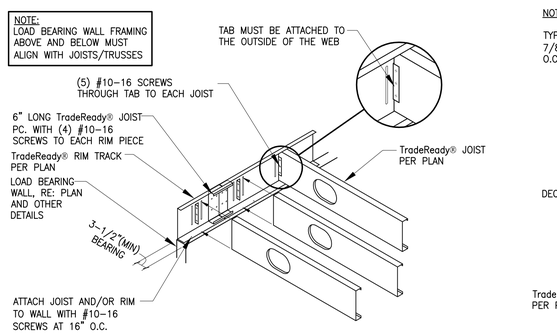
NOTES:
1. DIETRICH E-SERIES SUPPORT CLIP. CLIP GAUGE AND FASTENERS AS REQUIRED BY DESIGN.
2. SUPPORT CLIP LENGTH PER TABLE T.1.

TABLE T.1

JOIST DEPTH	CLIP LENGTH (X)
6"	4"

6 JOIST HANGER – SIMPSON S-JCT8
N.T.S.

5 SUPPORT CLIP – DIETRICH E-SERIES
N.T.S.



4 JOIST RIM – RIM SPLICE
N.T.S.

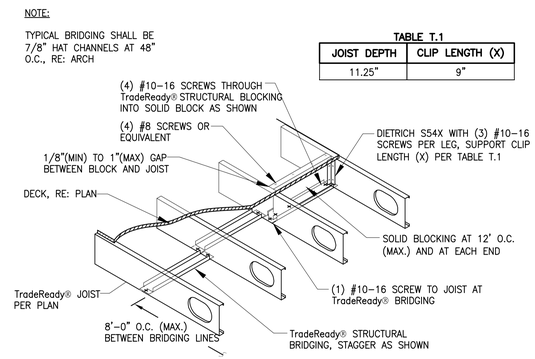
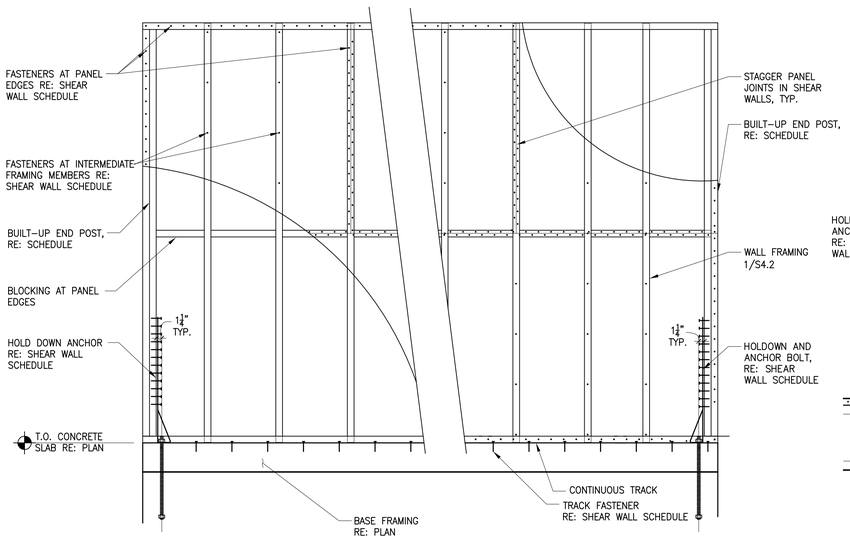


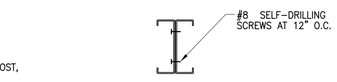
TABLE T.1

JOIST DEPTH	CLIP LENGTH (X)
11.25"	9"

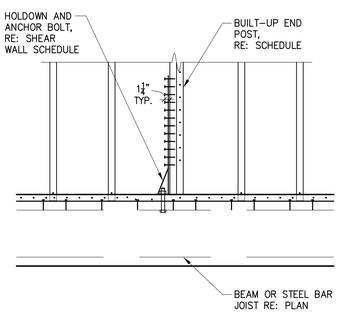
3 JOIST BRIDGING – STANDARD
N.T.S.



2 SHEAR WALL ELEVATION
3/4" = 1'-0"



BUILT-UP END POST DETAIL



HOLDOWN DETAIL AT FOUNDATION

SHEAR WALL SCHEDULE

MARK	SHEATHING	SHEATHING ATTACHMENT PATTERN		WALL STUDS	BOTTOM TRACK ATTACHMENT	HOLDOWNS	END POST
		AT PANEL EDGES AND BOUNDARIES	AT INTERMEDIATE FRAMING MEMBERS				
SW1	5/8" RATED SHEATHING (OSB), ONE SIDE	#10 SELF-DRILLING SCREWS AT 6" O.C.	#10 SELF-DRILLING SCREWS AT 12" O.C.	600S162-33 AT 16" O.C.	HILTI 0.157" X-8 AT 16" O.C. MIN.	SIMPSON S/HDU4 HOLDOWN WITH 5/8" DIA. BOLT	(2)-600S162-33

NOTES:
1. REFER TO FOUNDATION PLANS FOR ANCHOR BOLT AND HOLD DOWN LOCATIONS. ANCHOR BOLTS SHALL BE CAST IN PLACE FOR EMBEDMENT DEPTH SHOWN IN SCHEDULE.
2. PROVIDE GALVANIZED SCREWS AT EXTERIOR FACE OF WALL.
3. ALL VERTICAL WALL SHEATHING TO BE 5/8" RATED SHEATHING (OSB).
4. HOLD DOWN ANCHORS SHALL BE APPROVED BY THE SPECIAL STRUCTURAL INSPECTION AS REQUIRED BY BUILDING CODE.
5. HOLDOWN POSTS SHALL BE ATTACHED TOGETHER PER BUILT-UP SECTION DETAIL.
6. PANEL BLOCKING SHALL BE A 1 1/2"x16 GA. FLAT STRAP CENTERED ON THE JOINT WHERE REQUIRED.
7. SHEARWALL SHEATHING SHALL RUN CONTINUOUS THROUGH BREAKS CAUSED BY INTERSECTING WALLS.
8. PLUMBING / MECHANICAL ACCESS HOLES IN STUDS OR TRACKS TO BE PLACED IN CENTER LINE OF MEMBER, SPACED NO CLOSER THAN 10'-0" AND NOT EXCEED 2 1/2" DIA. FOR 6" WALLS – 1 1/2" DIA. FOR 3 5/8" WALLS. AT TRACKS AND HOLDOWN MEMBERS, STRAP ACROSS HOLE WITH SIMPSON ST2115, NO SCREWS AT HOLE.
9. SHEAR WALL SHEATHING AND FASTENING SHALL BE CONTINUOUS BETWEEN HOLDOWN LOCATIONS AS SHOWN ON PLAN.

1 SHEAR WALL SCHEDULE

PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS BUILDING A LOT 1
TENANT IMPROVEMENTS

NW CORNER TUDOR RD & MAINST
LEE'S SUMMIT, MO

ISSUE DATES

ISSUE	DATE
ISSUE FOR PERMIT	07.11.2022

210300

S4.2
FRAMING DETAILS

PLUMBING SPECIFICATIONS

1. GENERAL PROVISIONS:
   - A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED.
   - B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
   - C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
   - D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
   - E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.
   - F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED.
   - G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
2. OPERATION AND MAINTENANCE MANUALS:
   - A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
   - B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.
   - C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC.
3. MANUFACTURERS:
   - A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
4. TESTING, BALANCING, AND CLEANING:
   - A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.
   - B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.
   - C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
   - D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS.
   - E. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED, STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION, SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH.
5. PLUMBING:
   - A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS REQUIRED BY FIXTURE MANUFACTURER.
   - B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE.
   - C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS.
   - D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.
   - E. CLEANOUTS:
     - 1) VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL.
     - 2) QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL.
     - 3) CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL.
     - 4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.
     - 5) WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.
     - 6) WAREHOUSE FLOORS/FORK TRUCK AREAS: JR SMITH #4100, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND ROUND ADJUSTABLE SCORIATED EXTRA HEAVY DUTY NICKEL BRONZE TOP.
     - 7) GRADE: JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER.
   - F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.
   - G. WATER HEATERS:
     - 1) EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF A STORAGE WATER HEATER OR TANK.
     - 2) BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACCUM RELIEF VALVE INSTALLED. ANSI Z21.22.
     - 3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE.
   - H. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES.
     - 1) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL.
     - 2) INSTALL 3" - 6" PIPE AT 1/8" PER FOOT FALL.
     - 3) INSTALL 8" AND LARGER PIPE AT 1/16" PER FOOT FALL.
6. PIPING:
   - A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).
     - 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
       - a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200. ANSI B16.22. MSS SP-104.
       - b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.
     - 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
       - a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
       - b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE, INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
     - 3) VALVES
       - a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE.
       - b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT.
       - c) TYPES:
         1. GATE VALVE: JOMAR T/S-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1.
         2. GLOBE VALVE: JOMAR TGG OR EQUAL.
         3. BALL VALVE: JOMAR JP100PxP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. UL842, CSA 3371-12 & 3371-92, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX G APPROVED.
         4. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110
   - B. DOMESTIC COLD, AND HOT WATER (UNDERGROUND).
     - 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
       - a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200. ANSI B16.22. MSS SP-104.
       - b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.
     - 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.
       - a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER.
       - b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE, INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.
       - c) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200.
   - C. DOMESTIC WATER SERVICE, 1"-3"
     - 1) TYPE K SOFT DRAWN COPPER TUBING, ASTM B-88.
       - a) Cast Copper Alloy Fittings for Flared Copper Tube, ASME/ANSI B16.26:
     - 2) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200 MATERIAL AND INSTALLATION MUST CONFORM TO WATER DEPARTMENT REQUIREMENTS.
   - D. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS:
     - 1) PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL NOT HAVE MORE THAN 8% LEAD CONTENT.
     - 2) PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED AVERAGE LEAD CONTENT OF 0.25% OR LESS.

PLUMBING SPECIFICATIONS (CONTINUED)

- E. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).
  - 1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
  - 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
  - 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM:(ASTM D2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
  - 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
  - 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
- F. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (ABOVE GROUND, INTERIOR TO THE BUILDING).
  - 1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. (NOT FOR USE IN A RETURN AIR PLENUM)
  - 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)
  - 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS) (NOT FOR USE IN A RETURN AIR PLENUM)
  - 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
  - 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
- G. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, EXTERIOR TO THE BUILDING).
  - 1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 2680 FITTINGS SHALL CONFORM TO ASTM D 2680. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235.
  - 2) PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM F 794. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
  - 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 794. FITTINGS SHALL CONFORM TO ASTM F 794. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
  - 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
  - 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
  - 6) COPPER DWV: DRAINAGE TUBE SHALL CONFORM TO ASTM B306, WROUGHT COPPER FITTINGS, ANSI B-16.29.
  - 7) GALVANIZED STEEL PIPE, WITH MALLEABLE IRON, THREADED FITTINGS, DRAINAGE PATTERN FOR SEWERS SHALL CONFORM TO ASTM A 53.
- H. NATURAL GAS.
  - 1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53.
    - a) PIPE 3" AND SMALLER; 150 LB. MALLEABLE IRON, THREADED FITTINGS.
    - b) PIPE 4" AND SMALLER; VIEGA MEGAPRESS G FOR WATER AND GAS. CSA LC4, TSSA/ASME B31 FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE.
    - c) PIPE 2-1/2" AND LARGER, WELDED.
    - d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143.
    - e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110
  - 2) GAS PIPING LABELING:
    - a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING "ELEVATED PRESSURE".
  - 3) GAS PIPING PAINTING:
    - a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EITHER MATCH ADJACENT EXTERIOR WHERE LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW WHERE LOCATED ON THE ROOF.
- I. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.
- J. SLEEVES
  - 1) PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION AND TO ACCOMMODATE PIPE INSULATION.
  - 2) INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.
  - 3) ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.
  - 4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008: AND THE SHEATHING SHALL BE MADE OF PLASTIC. ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING.
  - 5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALL TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
- K. COMPRESSED AIR PIPING
  - 1) PARKER TRANSAIR PIPING, EXTRUDED ALUMINUM PIPE, CONFORMS TO ASTM B241.
    - a) PARKER TRANSAIR FITTINGS CONFORMING TO UL94HB
    - b) PARKER TRANSAIR MOUNTING CLIPS, CONFORMING TO UL94V-2
  - 2) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88.
    - a) WROUGHT BRONZE SOLDERED FITTINGS.

7. WATER HEATERS
   - A. COMMERCIAL, LIGHT-DUTY, STORAGE, ELECTRIC, DOMESTIC-WATER HEATERS:
     1. STANDARD: UL 174
     2. STORAGE-TANK CONSTRUCTION: STEEL, VERTICAL ARRANGEMENT.
        - a. PRESSURE RATING: 150 PSIG.
        - b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING LINING MATERIAL INTO TAPPINGS.
     3. FACTORY-INSTALLED, STORAGE-TANK APPURTENANCES:
        - a. ANODE ROD: REPLACEABLE MAGNESIUM.
        - b. DIP TUBE: REQUIRED UNLESS COLD-WATER INLET IS NEAR BOTTOM OF TANK.
        - c. DRAIN VALVE: CORROSION-RESISTANT METAL WITH HOSE-END CONNECTION.
        - d. INSULATION: COMPLY WITH ASHRAE/IES 90.1
        - e. JACKET: STEEL WITH ENAMELED FINISH OR HIGH-IMPACT COMPOSITE MATERIAL.
        - f. HEAT-TRAP FITTINGS: INLET TYPE IN COLD-WATER INLET AND OUTLET TYPE IN HOT-WATER OUTLET.
        - g. HEATING ELEMENTS: ELECTRIC, SCREW-IN IMMERSION TYPE.
        - h. TEMPERATURE CONTROL: ADJUSTABLE THERMOSTAT.
        - i. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
        - j. RELIEF VALVE: ASME RATED AND STAMPED FOR COMBINATION TEMPERATURE-AND-PRESSURE RELIEF VALVES. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT, AND INCLUDE PRESSURE SETTING LESS THAN WORKING-PRESSURE RATING OF DOMESTIC-WATER HEATER. SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO STORAGE TANK.
   - B. DOMESTIC-WATER EXPANSION TANKS:
     1. DESCRIPTION: STEEL, PRESSURE-RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY-INSTALLED, BUTYL-RUBBER DIAPHRAGM. INCLUDE AIR PRECHARGE TO MINIMUM SYSTEM-OPERATING PRESSURE AT TANK.
     2. CONSTRUCTION:
        - a. TAPPINGS: FACTORY-FABRICATED STEEL, WELDED TO TANK BEFORE TESTING AND LABELING. INCLUDE ASME B1.20.1 PIPE THREAD.
        - b. INTERIOR FINISH: COMPLY WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE-WATER TANK LININGS, INCLUDING EXTENDING FINISH INTO AND THROUGH TANK FITTINGS AND OUTLETS.
        - c. AIR-CHARGING VALVE: FACTORY INSTALLED.
     3. CAPACITY AND CHARACTERISTICS:
        - a. WORKING-PRESSURE RATING: 150 PSIG .
   - C. FLOW-CONTROL, ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS:
     1. STANDARD: UL 499 FOR ELECTRIC, TANKLESS, (DOMESTIC-WATER-HEATER) HEATING APPLIANCE.
     2. CONSTRUCTION: COPPER PIPING OR TUBING COMPLYING WITH NSF 61 AND NSF 372 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY.
        - a. JACKET: ALUMINUM OR STEEL WITH ENAMELED FINISH OR PLASTIC.
        - b. PRESSURE RATING: 150 PSIG
        - c. HEATING ELEMENT: RESISTANCE HEATING SYSTEM.
        - d. TEMPERATURE CONTROL: FLOW-CONTROL FITTING.
        - e. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM.
     3. SUPPORT: BRACKET FOR WALL MOUNTING.
8. INSULATION:
   - A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA.
   - B. PIPE INSULATION - ABOVE GRADE:
     - 1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr*sqft*F° OR LESS.
     - 2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
     - 3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.
     - 4) FOR NON CIRCULATING SYSTEMS, THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.
     - 5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW.
     - 6) INSULATION SCHEDULE:
       - a) DOMESTIC COLD WATER 1/2"
       - b) DOMESTIC HOT WATER 1" FOR PIPING UP TO 1-1/4"Φ, & 1-1/2" FOR PIPING 1-1/2"Φ AND LARGER
       - c) HOT WATER RECIRCULATING 1"
       - d) CONDENSATE DRAINS INSIDE BUILDING 1/2"
       - e) REFRIGERANT SUCTION 3/4" FOR PIPING UP TO 1-1/4"Φ, & 1" FOR PIPING 1-1/2"Φ AND LARGER
       - f) HORIZONTAL STORM PIPE 1/2"
       - g) HORIZONTAL STORM OVERFLOW PIPE 1/2"
       - h) ROOF DRAINS 1" INSULATION SHALL BE PROVIDED AT ROOF DRAIN BODY AND A MINIMUM OF 10' OF HORIZONTAL PIPING OR A MINIMUM OF 5' IF COMBINATION OF HORIZONTAL AND VERTICAL STORM PIPING DOWNSTREAM OF ROOF DRAIN BODY.

CURRAN ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

[redacted]

SCANNELL PROPERTIES

[redacted]

8/31/2022

STATE OF MISSOURI
ERIK B. KNUDSEN
NUMBER PE-2004026504
REGISTERED PROFESSIONAL ENGINEER

[redacted]

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

[redacted]

PERMIT SET 08.31.22

BC PROJECT #22208
MISSOURI PE COA #2009003629

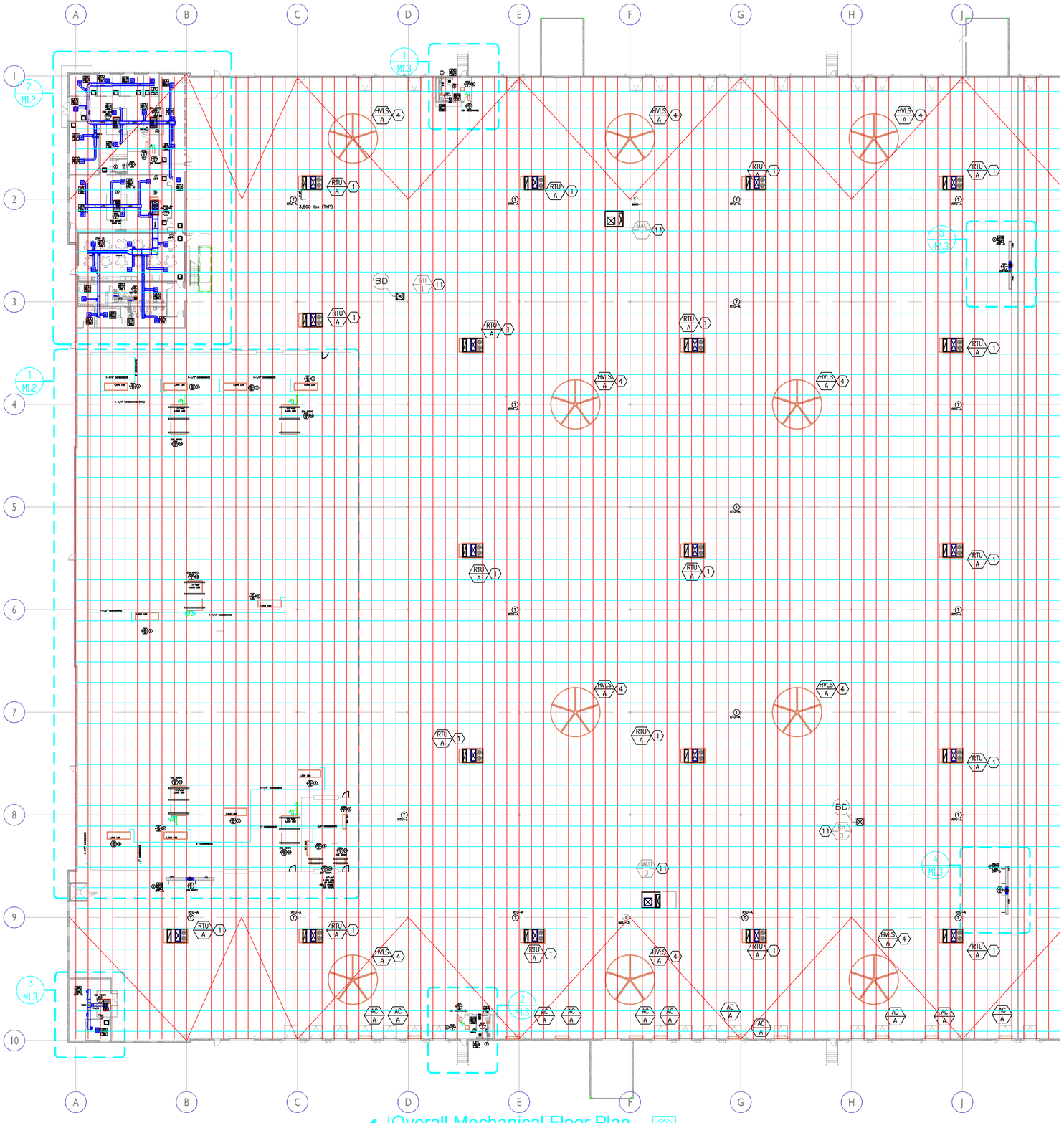
CENTRAL
PLUMBING, HEATING & AIR CONDITIONING, INC.
201 East Walnut
Cleveland, MO 64734
816-942-6355

BC ENGINEERS INCORPORATED
5720 Reeder Shawnee, KS 66203 (913)262-1772

210300

PLUMBING SPECIFICATIONS

P0.0



1 Overall Mechanical Floor Plan
scale: 1" = 25'-0"

north

MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED ACCORDING TO SMACNA STANDARDS.
2. ALL CONCEALED SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 3/4 LB DENSITY FIBERGLASS DUCT WRAP.
   ALL EXPOSED (WAREHOUSE) SUPPLY AIR DUCTWORK AND RETURN AIR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 2 LB DENSITY FIBERGLASS DUCT LINER.
3. HVAC CONTRACTOR WILL CHECK EACH SYSTEM FOR PROPER OPERATION.
4. HVAC CONTRACTOR SHALL HAVE AN INDEPENDENT CONTRACTOR TO TEST & BALANCE HVAC SYSTEM TO THE PROPER AIRFLOWS AND STATIC PRESSURES. A COPY OF THE BALANCING REPORT WILL BE SUBMITTED TO THE OWNER UPON COMPLETION. AIR TO (+/-) 10% , WATER TO (+/-) 5%.
5. FLEXIBLE RUN-OUTS TO BE U.L. LISTED AND HAVE A MAXIMUM LENGTH OF 8'-0". DUCT RUNS TO BE SAME SIZE AS DIFFUSER NECK SIZE SHOWN.
6. AIR HANDLING UNITS SUPPLYING 2,000 CFM OR MORE SHALL HAVE A SMOKE DETECTOR INSTALLED IN THE RETURN AIR DUCTWORK. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO SHUT DOWN ALL SUPPLY FANS UPON ALARM.
7. MAINTAIN MINIMUM 10'-0" FROM ALL PLUMBING VENTS AND EXHAUST VENTS TO ALL OUTSIDE AIR INTAKES.
8. DO NOT INSTALL PIPING OR DUCTWORK OVER ELECTRICAL PANELS.
9. ALL COOLER/FREEZER REFRIGERANT PIPING TO BE INSULATED WITH 1" ARMAFLEX. ALL CONDENSATE PIPING TO BE INSULATED WITH 1" ARMAFLEX. CPVC CAN BE USED FOR ALL NON-HEAT TRACED CONDENSATE PIPING. COPPER TO BE USED FOR ALL HEAT-TRACED CONDENSATE.
   PROVIDE HEAT TRACING ON ALL CONDENSATE PIPING IN FREEZER PER MANUFACTURER'S RECOMMENDATIONS.
   PROVIDE UV PAINT ON ALL EXTERIOR INSULATION.

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

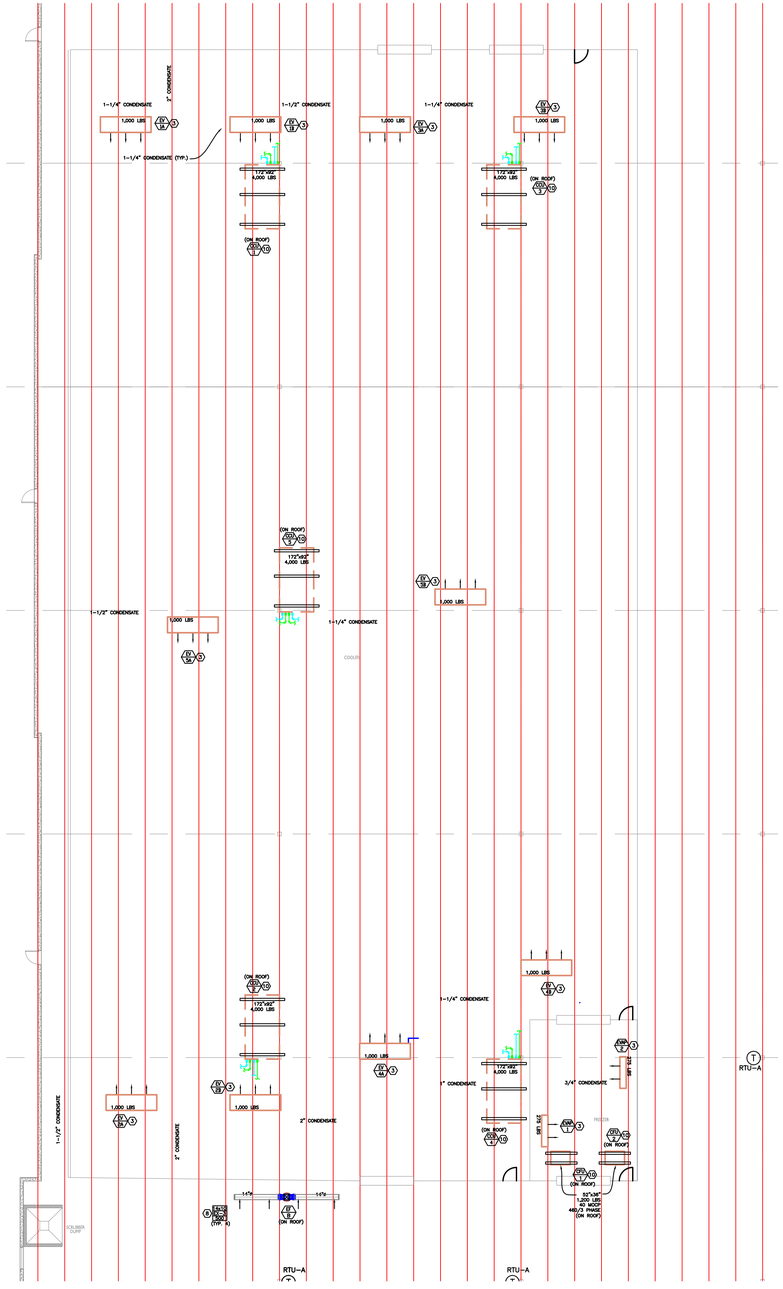
PERMIT SET	04.21.22

MetroAir

LSCC BLDG. #1 – TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 12/15/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M1 of 5	
COORDINATION DWGS		

210300

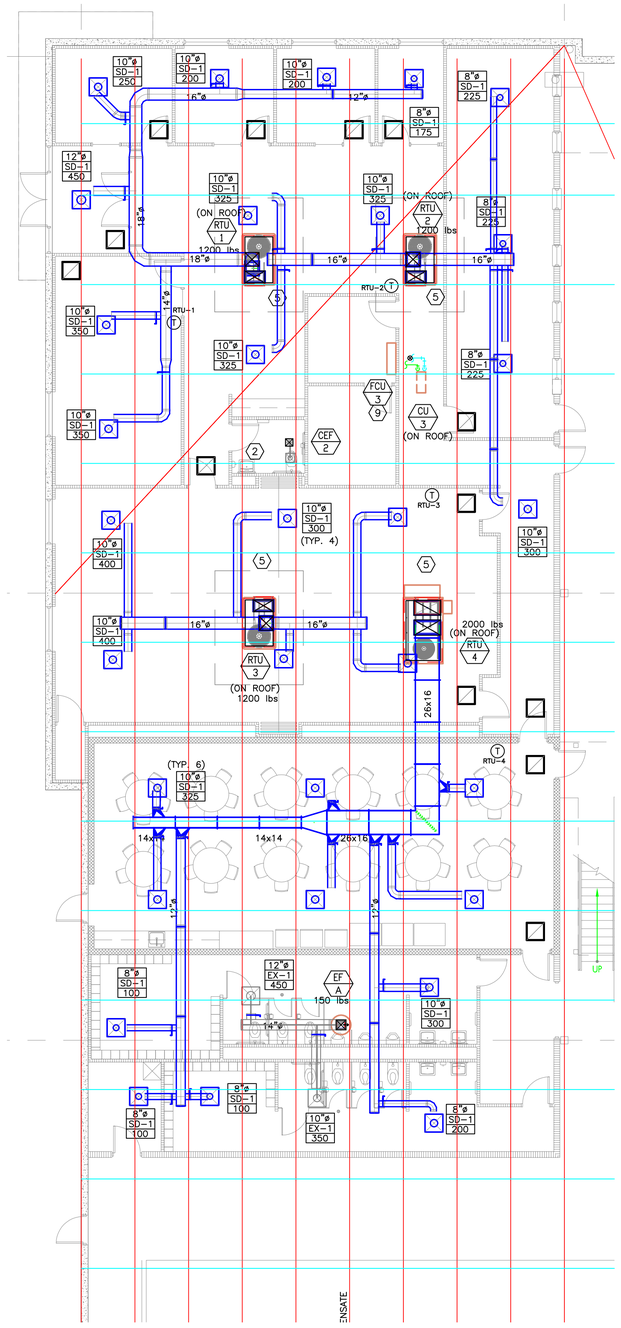
M1.1



1 Cooler Mechanical Floor Plan

scale: 1/16" = 1'-0"

north



2 Office Mechanical Floor Plan

scale: 1/8" = 1'-0"

north

MECHANICAL PLAN NOTES:

1. COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
2. PROVIDE 6" EXHAUST VENT UP THROUGH ROOF. PROVIDE WITH WEATHERCAP.
3. ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.
4. COORDINATE EXACT LOCATION OF HVLS FAN. PROVIDE ASSOCIATED FAN CONTROLLER ON ADJACENT COLUMN.
5. ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.
7. PROVIDE 6" EXHAUST VENT OUT THROUGH WALL. PROVIDE WITH WEATHERCAP.
8. INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30" FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.
9. ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER
10. INSTALL CONDENSING UNIT ON ROOF RAILS.
11. EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

LEGEND

- HVLS 1 — GREENHECK HVLS/CIRCULATION FAN 24'-0" DIAMETER MODEL DS-6-24-170HV – 2HP, 460/3 PHASE, 250 LBS AND 6 BLADES. PROVIDE WITH MOUNTING ACCESSORIES AND CONTROL PANEL. CONDUIT AND CONTROL WIRING BY OTHERS. (TYP. 10)
- AC X — AIR CURTAIN – POWERED AIR MODEL XXXX. UNIT TO BE 80" LONG WITH 10 KW ELECTRIC HEATING. XX MCA @ 460/3 PHASE, 375 LBS. PROVIDE WITH MAGNETIC DOOR SWITCH, WHITE INTAKE SUPPLY GRILLE, WALL MOUNTED THERMOSTAT AND WASHABLE ALUMINUM FILTER
- EWH 1 — ELECTRIC WALL HEATER – RAYWALL OR EQUAL. 2KW @ 277/1 PHASE. PROVIDE WITH RECESS MOUNTING FRAME, DISCONNECT, INTEGRAL THERMOSTAT.
- SD-1 SUPPLY AIR DIFFUSER – AS SCHEDULED
- RG-1 RETURN AIR GRILLE – AS SCHEDULED
- RG-2 RETURN AIR GRILLE – AS SCHEDULED
- EX-1 EXHAUST AIR GRILLE – AS SCHEDULED
- EX-2 EXHAUST AIR GRILLE – AS SCHEDULED
- SG-1 SUPPLY AIR GRILLE – AS SCHEDULED; SG-2 SUPPLY AIR GRILLE – AS SCHEDULED
- RETURN AIR GRILLE – AS SCHEDULED
- T VAV 1-3 — THERMOSTAT WITH ZONE/UNIT DESIGNATION. MOUNT AT 48" A.F.F.
- CO_2 — CARBON DIOXIDE SENSOR – MOUNT IN RETURN OR WALL AS SHOWN

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

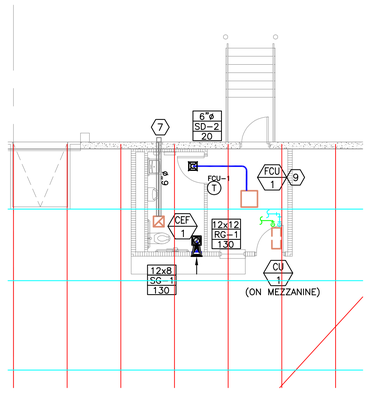
PERMIT SET	04.21.22

210300

M1.2

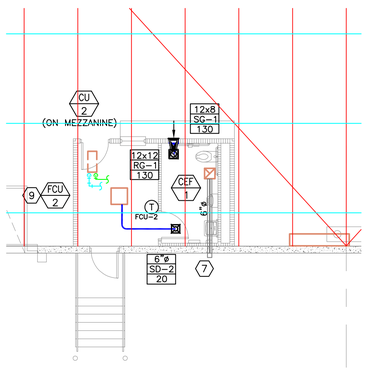
MetroAir

LSCC BLDG. #1 – TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 12/15/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M2	of 5
COORDINATION DWGS		



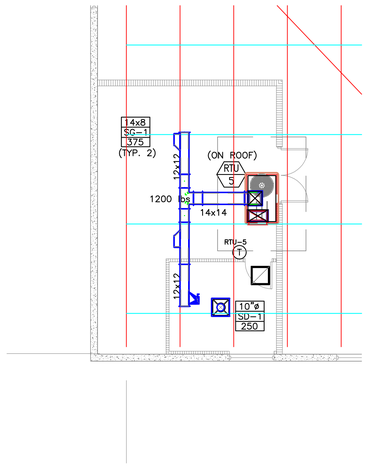
1 Driver's Mechanical Floor Plan
scale: 1/8" = 1'-0"

north



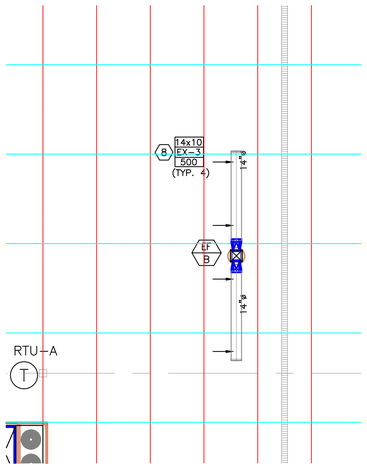
2 Driver's Mechanical Floor Plan
scale: 1/8" = 1'-0"

north



3 Maintenance Mechanical Floor Plan
scale: 1/8" = 1'-0"

north



4 Charging Area Mechanical Plan
scale: 1/8" = 1'-0"

north

MECHANICAL PLAN NOTES:

1. COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
2. PROVIDE 6" EXHAUST VENT UP THROUGH ROOF. PROVIDE WITH WEATHERCAP.
3. ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.
4. COORDINATE EXACT LOCATION OF HVLS FAN. PROVIDE ASSOCIATED FAN CONTROLLER ON ADJACENT COLUMN.
5. ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.
7. PROVIDE 6" EXHAUST VENT OUT THROUGH WALL. PROVIDE WITH WEATHERCAP.
8. INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30" FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.
9. ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER
10. INSTALL CONDENSING UNIT ON ROOF RAILS.
11. EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

LEGEND

- HVLS 1 — GREENHECK HVLS/CIRCULATION FAN 24'-0" DIAMETER MODEL DS-6-24-170HV – 2HP, 460/3 PHASE, 250 LBS AND 6 BLADES. PROVIDE WITH MOUNTING ACCESSORIES AND CONTROL PANEL. CONDUIT AND CONTROL WIRING BY OTHERS. (TYP. 10)
- AC X — AIR CURTAIN – POWERED AIR MODEL XXXX. UNIT TO BE 80" LONG WITH 10 KW ELECTRIC HEATING. XX MCA @ 460/3 PHASE, 375 LBS. PROVIDE WITH MAGNETIC DOOR SWITCH, WHITE INTAKE SUPPLY GRILLE, WALL MOUNTED THERMOSTAT AND WASHABLE ALUMINUM FILTER
- EWH 1 — ELECTRIC WALL HEATER – RAYWALL OR EQUAL. 2KW @ 277/1 PHASE. PROVIDE WITH RECESS MOUNTING FRAME, DISCONNECT, INTEGRAL THERMOSTAT.
- SD-1 SUPPLY AIR DIFFUSER – AS SCHEDULED
- RG-1 RETURN AIR GRILLE – AS SCHEDULED
- RG-2 RETURN AIR GRILLE – AS SCHEDULED
- EX-1 EXHAUST AIR GRILLE – AS SCHEDULED
- EX-2 EXHAUST AIR GRILLE – AS SCHEDULED
- SG-1 SUPPLY AIR GRILLE – AS SCHEDULED
  SG-2 SUPPLY AIR GRILLE – AS SCHEDULED
- RETURN AIR GRILLE – AS SCHEDULED
- T VAV 1-3 — THERMOSTAT WITH ZONE/UNIT DESIGNATION. MOUNT AT 48" A.F.F.
- CO_2 — CARBON DIOXIDE SENSOR – MOUNT IN RETURN OR WALL AS SHOWN

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
12/20/2022

CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

SCANNELL PROPERTIES

LEE'S SUMMIT LOGISTICS
BUILDING A LOT 1

NW CORNER OF
NE TUDOR RD & MAIN ST
LEE'S SUMMIT, MO 64086

PERMIT SET 04.21.22

MetroAir

LSCC BLDG. #1 – TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 12/15/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG # M2 of 5	
coordination dwgs		

210300

M1.3