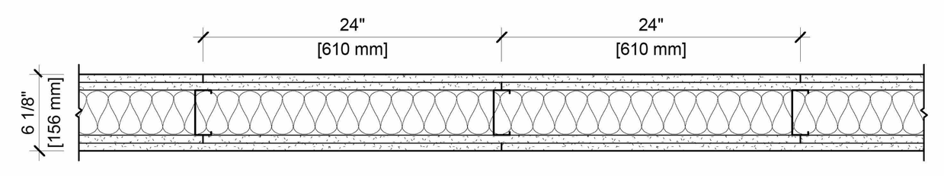
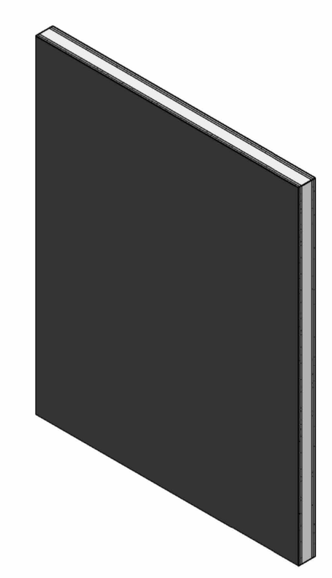
DESIGN NO. UL U419

FIRE RATING:	2 HOURS
STC RATING:	52
SOUND TEST:	USG-160730
SYSTEM THICKNESS:	6-1/8" [156 MM]
LOCATION:	INTERIOR
FRAMING TYPE:	STEEL STUD (NONLOAD-BEARING)





ASSEMBLY REQUIREMENTS:

GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)
STEEL STUDS:	3-5/8" [92 MM] STEEL STUDS, EQ20 (0.018"), 24" [610 MM] O.C.
INSULATION:	3-1/2" [89 MM] FIBERGLASS INSULATION
GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

USG CGC

USG Corporation

UL U419

ISSUE RECORD:
Revision Date
10/05/2021 11:50:37 PM

SHEET INFORMATION:
SN-P-2-03

CLARIFICATION OF INTERIOR PARTITION DESIGNATIONS

1A2A ← **PARTITION TAG**

- SOUND ATTENUATION BLANKET (IN ALL PARTITIONS, U.N.O.)
- PARTITION TYPE DESIGNATOR (SEE **PARTITION SERIES TYPE SCHEDULES)**
- FRAMING MEMBER DEPTH (SEE **TABLE B** OR **TABLE C** - BELOW
- PARTITION SERIES (SEE **TABLE A** - BELOW)
- **FIRE RATING (IF APPLICABLE)**

TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBER	SHEATHING
A	1-LAYER	METAL STUD	1-LAYER
B	2-LAYERS	METAL STUD	2-LAYERS
C	1-LAYER	METAL STUD	2-LAYERS
D	1-LAYER	METAL STUD	NONE
E	2-LAYERS	METAL STUD	NONE
F	1-LAYER	MTL HAT CHANNEL	NONE
G	1-LAYER	NONE	NONE
H	1-LAYER	METAL C-H STUD	LINER PANEL
J	2-LAYERS	METAL C-H STUD	LINER PANEL
K	1-LAYER	(2) METAL STUDS	1-LAYER
L	2-LAYERS	(2) METAL STUDS	2-LAYERS
M	NONE	CMU	NONE
N	2-LAYERS	MTL HAT CHANNEL	NONE
P	NONE	METAL STUD	NONE
Q	1-LAYERS	METAL C-STUD	1" AIR GAP
R	1-LAYERS	METAL C-STUD	4-1/2" AIR GAP
S	2-LAYERS	METAL C-STUD 1-1/2" AIR GAP METAL C-STUD	2-LAYERS
T-U	RESERVED FOR FUTURE EXPANSION		
V-Z	CUSTOM	N/A	N/A

TABLE B- FRAMING DEPTH SCHEDULE

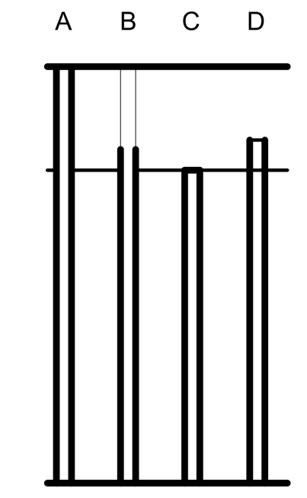
TAG NUMBER DESIGNATION	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8"		N/A
1	1 5/8"	N/A	N/A
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	2.5"
4	4"	4"	3.5"
6	6"	6"	5.5"
8	8"	N/A	7.25"
10	10"	N/A	9.25"

- GAUGE 16,18 USED FOR STRUCTURAL FRAMING; 20, 22, AND 25 USED FOR NON-STRUCTURAL FRAMING.
- USE OF DIMPLED STEEL STUDS ACCEPTABLE PROVIDED CONTRACTOR SUPPLIES DOCUMENTATION PROVING THE EQUIVALENT MINIMUM BASE METAL THICKNESS IS ACHIEVED.

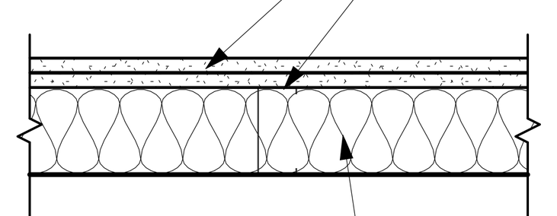
TABLE C- MASONRY WIDTH SCHEDULE

TAG NUMBER DESIGNATION	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

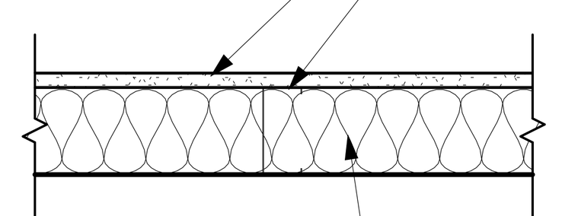
DIAGRAM A - PARTITION TYPE DESIGNATOR



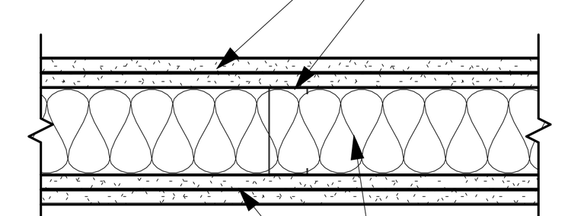
- PARTITION TYPES ARE NOT SEQUENTIAL.
- ALL PARTITION SHEATHING TO BE TYPE "X" GYPSUM BOARD UNLESS OTHERWISE NOTED.
- ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.
- THE THICKNESSES SHOWN ARE FINISH SURFACE TO FINISH SURFACE EXCLUDING THIN-SET CERAMIC TILE.
- PROVIDE BLOCKING IN PARTITIONS AS INDICATED. SEE CONSTRUCTION PLAN(S) AND/ OR INTERIOR ELEVATIONS FOR LOCATIONS.
- FOR INTERIOR FRAMING GAUGES REFER TO SPECIFICATION DIVISION 09 2116-GYPSUM BOARD ASSEMBLIES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS.
- CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF SLAB INFORMATION.



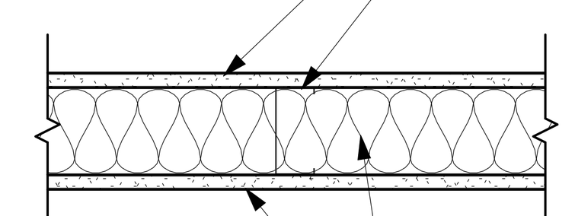
PARTITION SERIES E - PLAN 9
1 1/2" = 1'-0"



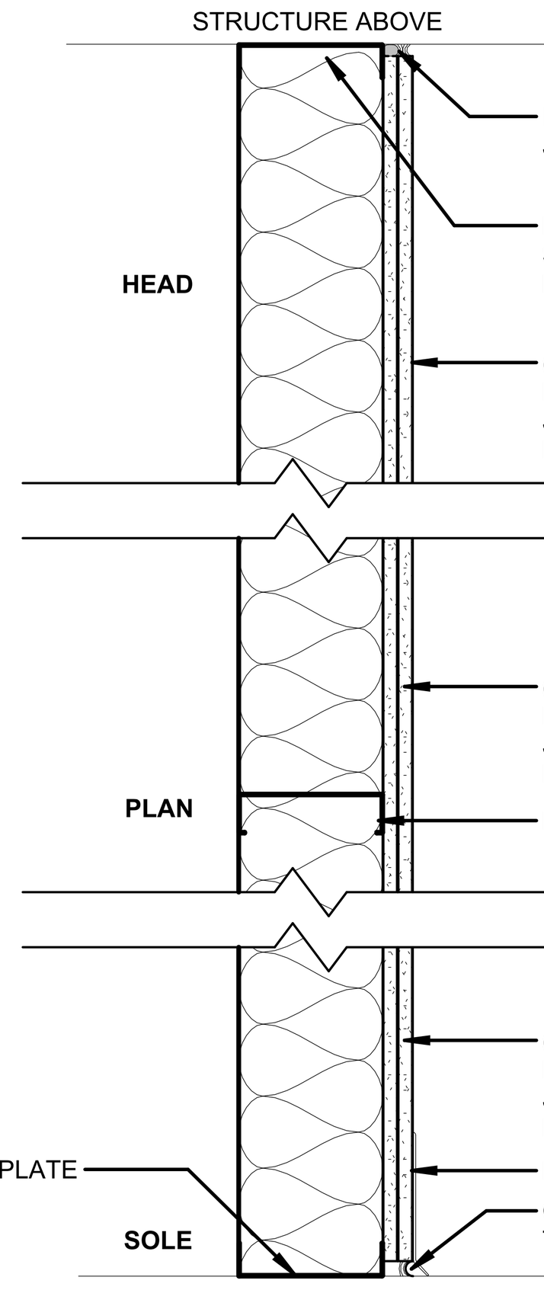
PARTITION SERIES D - PLAN 7
1 1/2" = 1'-0"



PARTITION SERIES B - PLAN 5
1 1/2" = 1'-0"

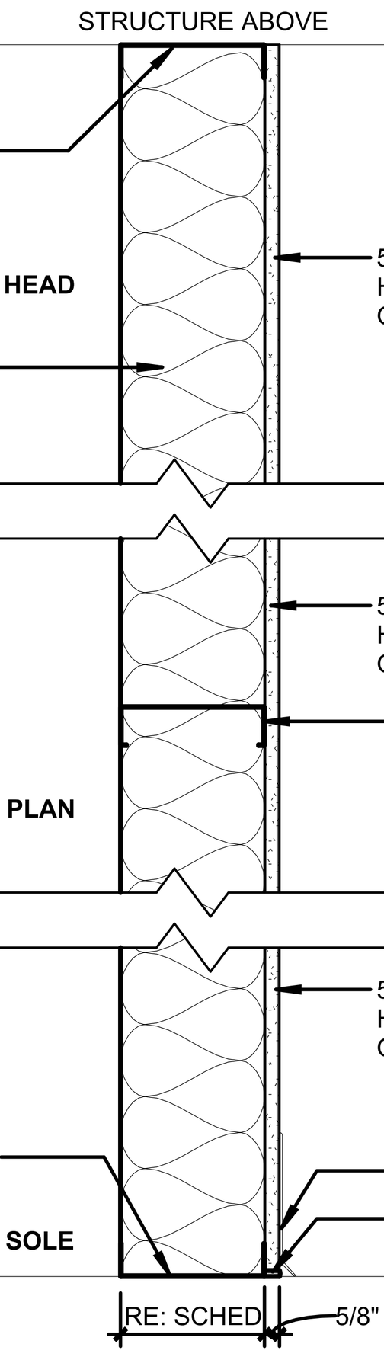


PARTITION SERIES A - PLAN 3
1 1/2" = 1'-0"



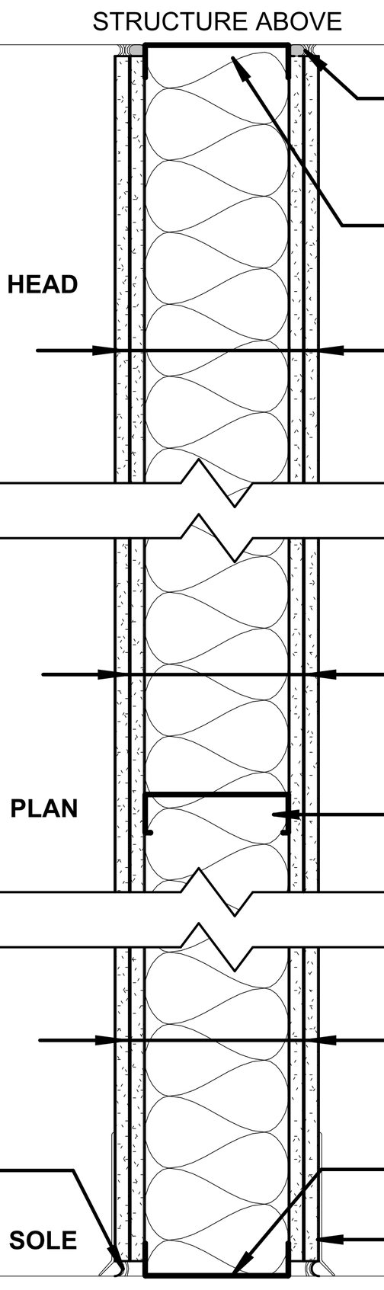
PARTITION SERIES E / TYPE A 8
1 1/2" = 1'-0"

PARTITION SCHEDULE E SERIES							
PARTITION	FRAMING		DETAILS			FIRE	SHEET
TYPE MARK	DEPTH	SPACING	TOP	BOT	ATTEN THK	RTG	NOTES
2E4A	4"	16" O.C.	8/A-501	8/A-501	3-1/2"	2 HOURS	UL RATING UL419
2E6A	6"	16" O.C.	8/A-501	8/A-501	3-1/2"	2 HOURS	UL RATING UL419



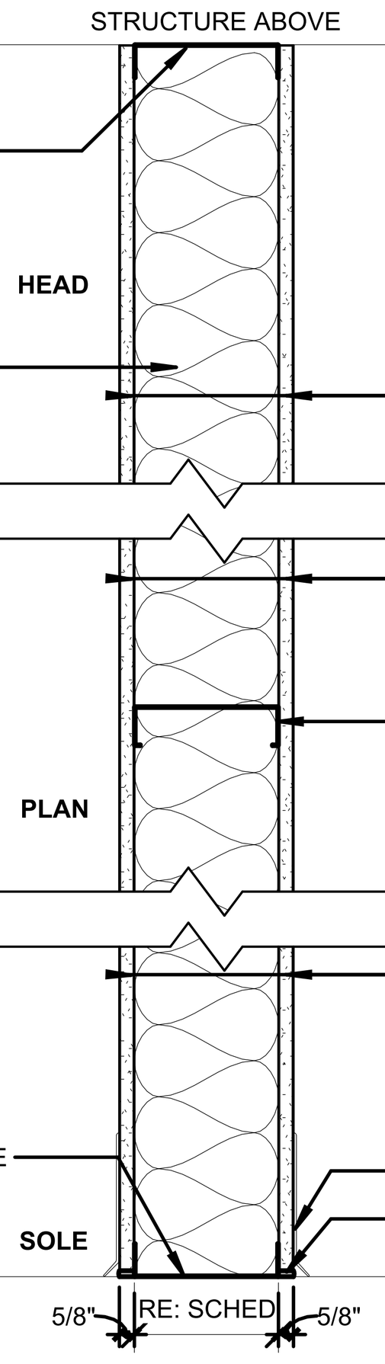
PARTITION SERIES D / TYPE A 6
1 1/2" = 1'-0"

PARTITION SCHEDULE D SERIES							
PARTITION	FRAMING		DETAILS			FIRE	SHEET
TYPE MARK	DEPTH	SPACING	TOP	BOT	ATTEN THK	RTG	NOTES
D3A	3-5/8"	16" O.C.	6/A-501	6/A-501	3-1/2"	-	
D6A	6"	16" O.C.	6/A-501	6/A-501	5-1/2"	-	



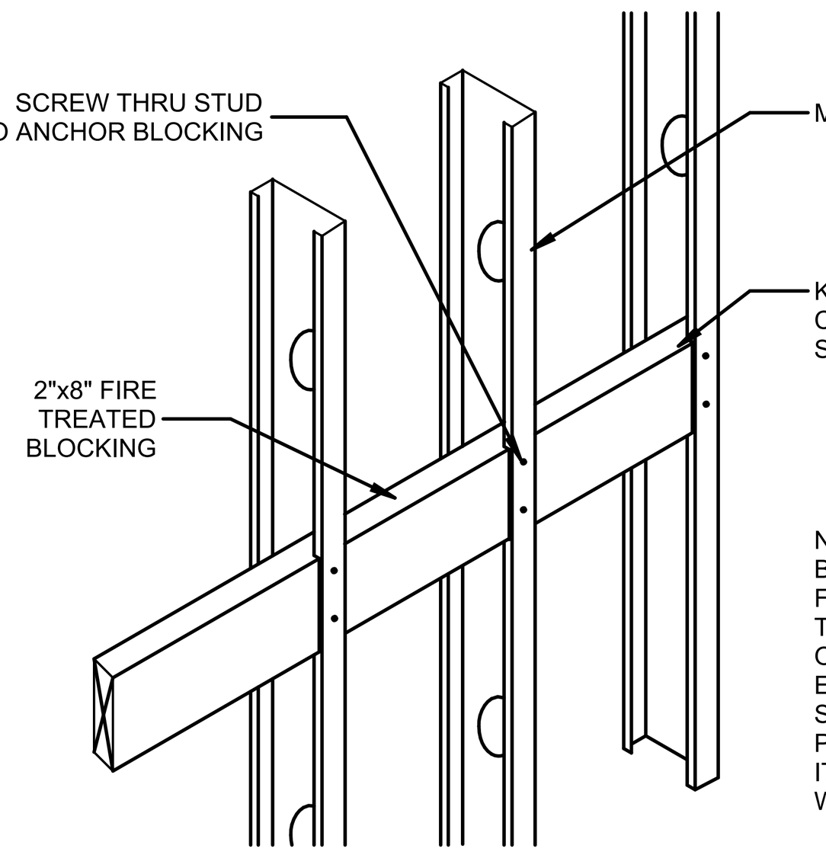
PARTITION SERIES B / TYPE A 4
1 1/2" = 1'-0"

PARTITION SCHEDULE B SERIES							
PARTITION	FRAMING		DETAILS		ATTEN		
TYPE MARK	DEPTH	SPACING	TOP	BOT	THK	FIRE RTG	SHEET NOTES
2B3A	3-5/8"	16" O.C.	4/A-501	4/A-501	3-1/2"	2 HOURS	UL RATING UL419
2B6A	6"	16" O.C.	4/A-501	4/A-501	5-1/2"	2 HOURS	UL RATING UL419



PARTITION SERIES A / TYPE A 2
1 1/2" = 1'-0"

PARTITION SCHEDULE A SERIES							
PARTITION	FRAMING		DETAILS				
TYPE MARK	DEPTH	SPACING	TOP	BOT	ATTEN THK	FIRE RTG	SHEET NOTES
A3A	3-5/8"	16" O.C.	2/A-501	2/A-501	3-1/2"	-	
A6A	6"	16" O.C.	2/A-501	2/A-501	5-1/2"	-	



TYPICAL BLOCKING DETAIL 1
1 1/2" = 1'-0"

CHASE MARSHALL
A PROFESSIONAL ARCHITECTURAL CORPORATION

LAFAYETTE
1720 KALISTE SALOOM ROAD
SUITE B3 | LAFAYETTE, LA 70508

NEW ORLEANS
7222 SPRUCE STREET
NEW ORLEANS, LA 70118

| 337.326.4470 | CHASEMARSHALL.COM |

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

PARTITION TYPES

NICHOLAS A. MARSHALL NO. 5827 STATE OF LOUISIANA REGISTERED ARCHITECT

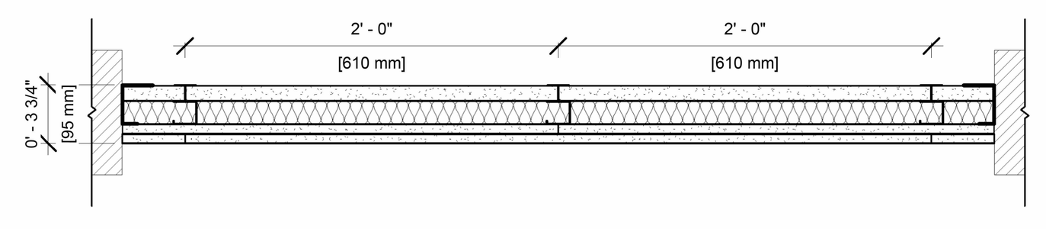
PROJECT NUMBER: 2025.040	DRAWN BY: KS
DATE: APRIL 14, 2026	CHECKED BY: NM
PHASE: 100% BID SET	

A-501

Autodesk Docs://2025.040_Third Floor Renovation to NIRC BLDG 29/2025.040_THIRD FLOOR RENOVATION TO NIRC BLDG29.rvt
4/16/2026 8:20:12 AM

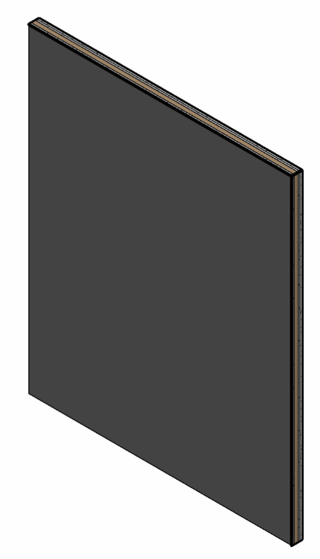
UL DESIGN NO. U415 B

FIRE RATING: 2 Hour
STC: 37
SYSTEM THICKNESS: 3 3/4"



ASSEMBLY OPTIONS:

GYPSUM BOARD:	ONE LAYER 1" THICK GYPSUM LINER PANEL (UL TYPE SLX™)
STEEL STUDS:	2-1/2" CH STUDS, 20 GA. MSG., SPACED 24" O.C. WITH OPTIONAL KNAUF EcoBatt® INSULATION
GYPSUM BOARD:	TWO LAYERS 5/8" THICK GYPSUM BOARD (UL TYPE SCX™)



NOTES:

STUD AND INSULATION SIZES ARE MINIMUM UNLESS OTHERWISE STATED IN DESIGN.

FOR THE MOST UP-TO-DATE INFORMATION OR ASSEMBLY OPTIONS, REFER TO THE UL FIRE RESISTANCE DIRECTORY.

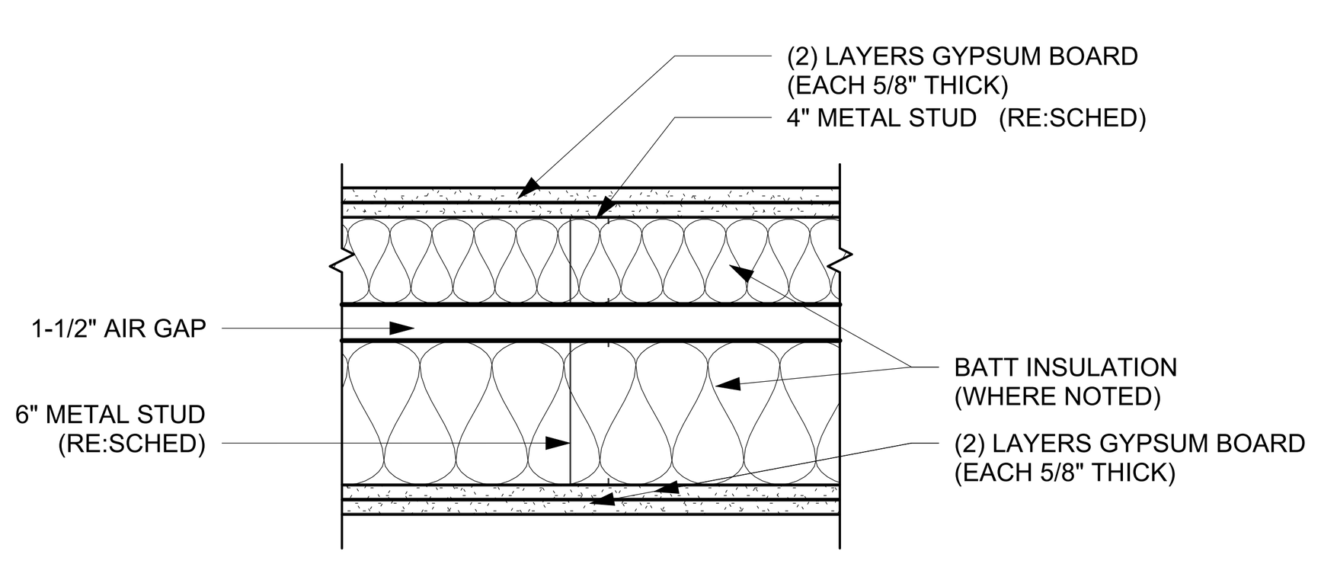
REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR INFORMATION REGARDING PRODUCT ORIENTATION AND FASTENING REQUIREMENTS.

KNAUF INSULATION
One Knauf Drive
Shelbyville, IN 46176 USA
KnaufNorthAmerica.com

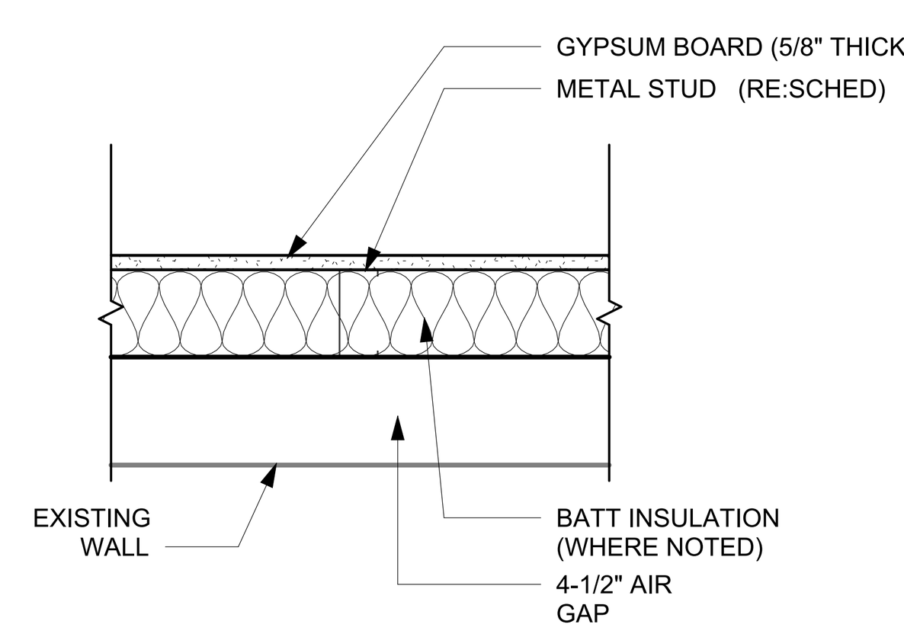
U415 System B

ISSUE RECORD:
Revision Date

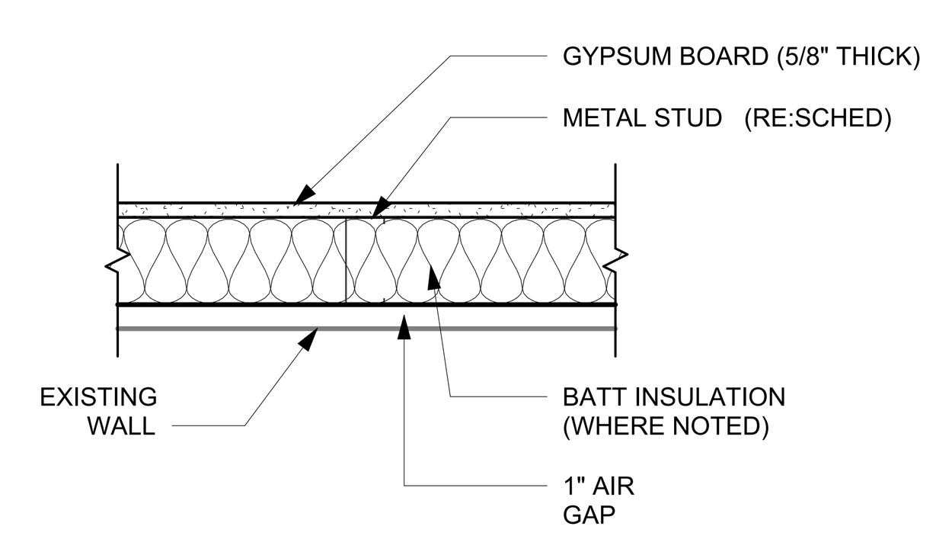
SHEET INFORMATION:
SN-SW-2-02



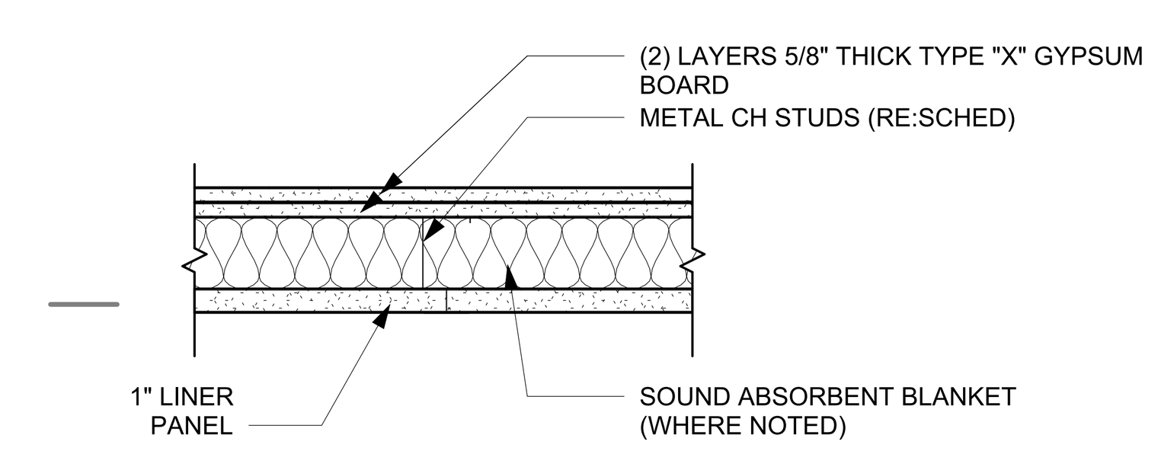
PARTITION SERIES S - PLAN 8
1 1/2" = 1'-0"



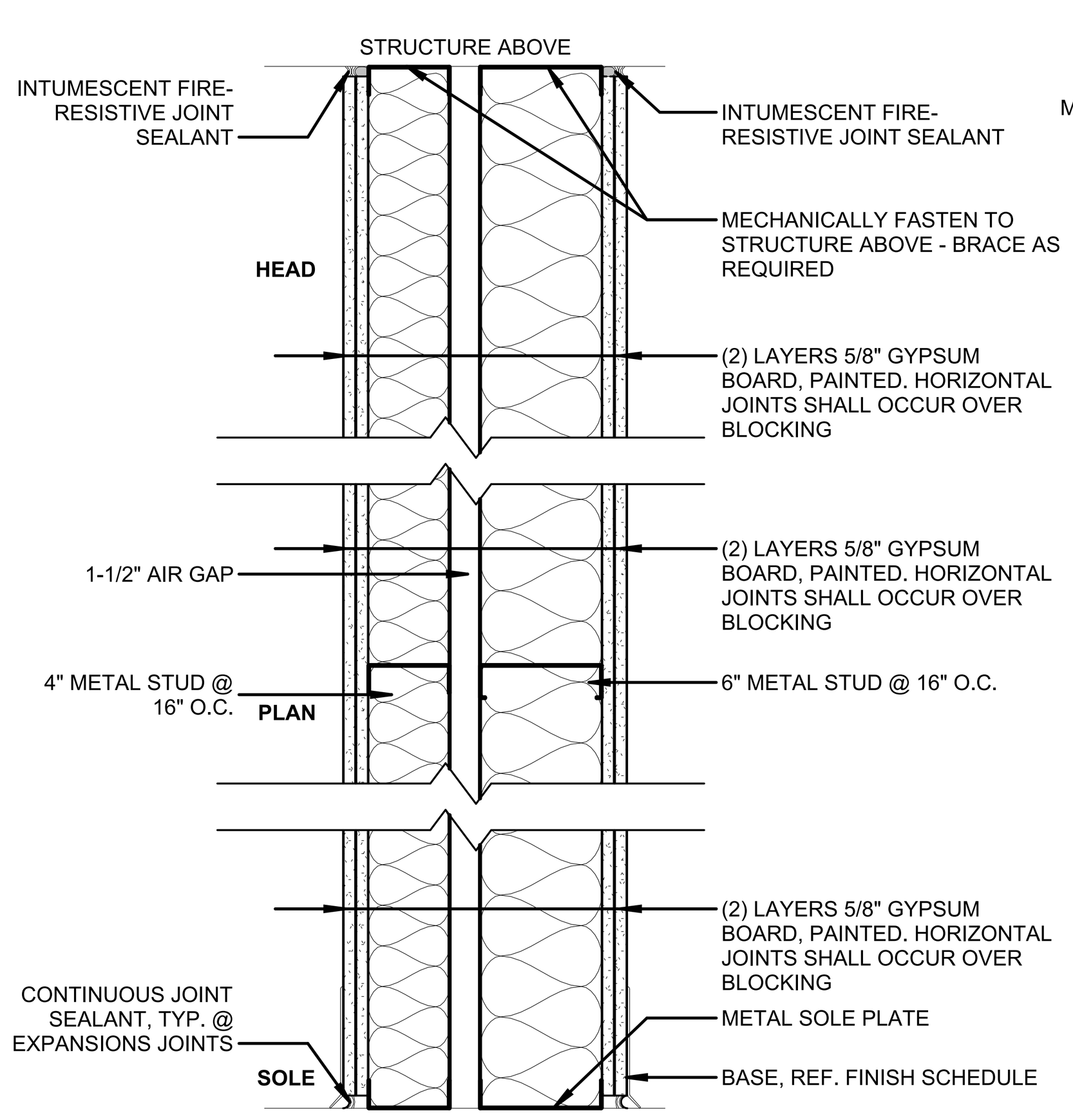
PARTITION SERIES R - PLAN 6
1 1/2" = 1'-0"



PARTITION SERIES Q - PLAN 4
1 1/2" = 1'-0"

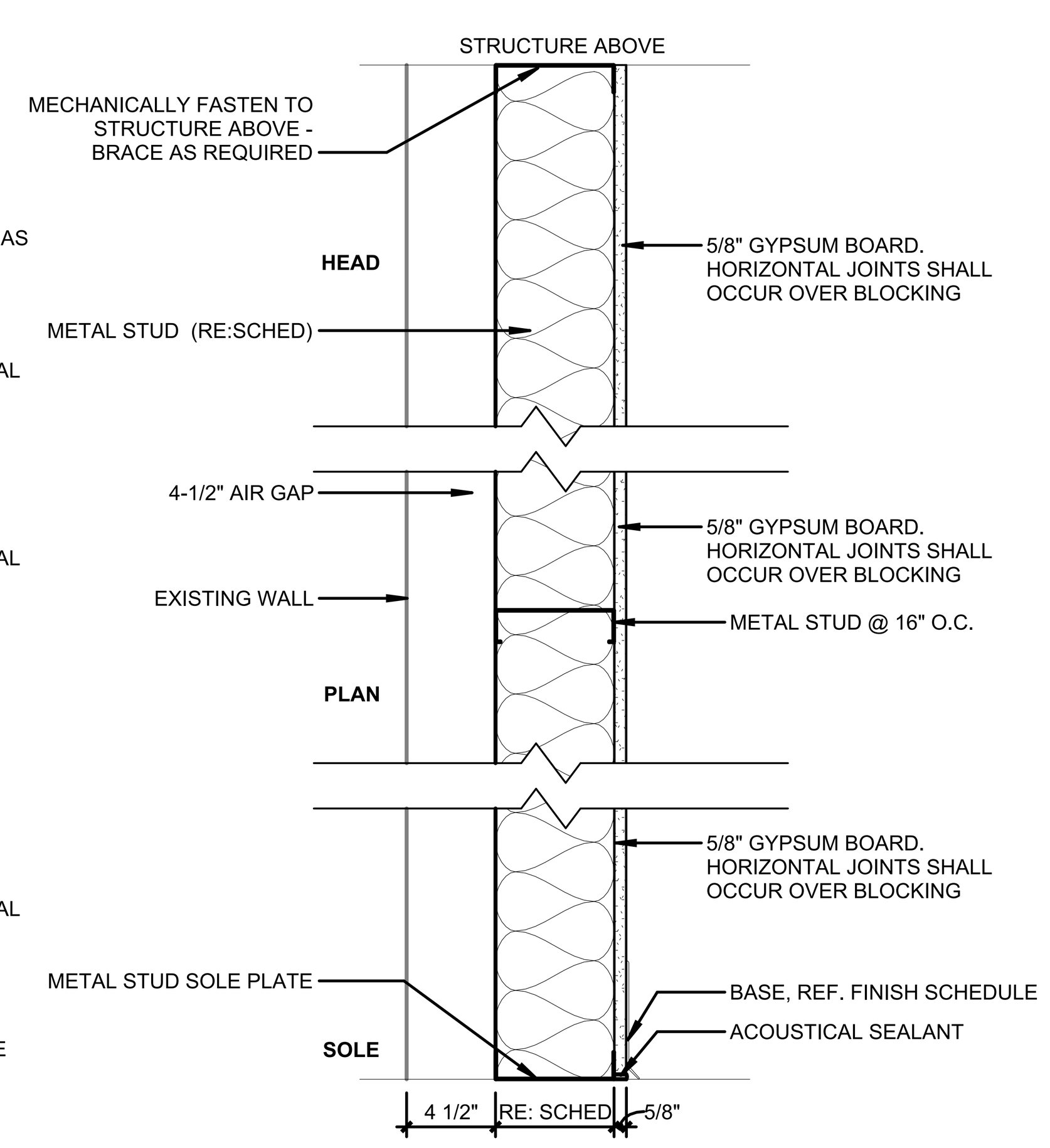


PARTITION SERIES J - PLAN 2
1 1/2" = 1'-0"



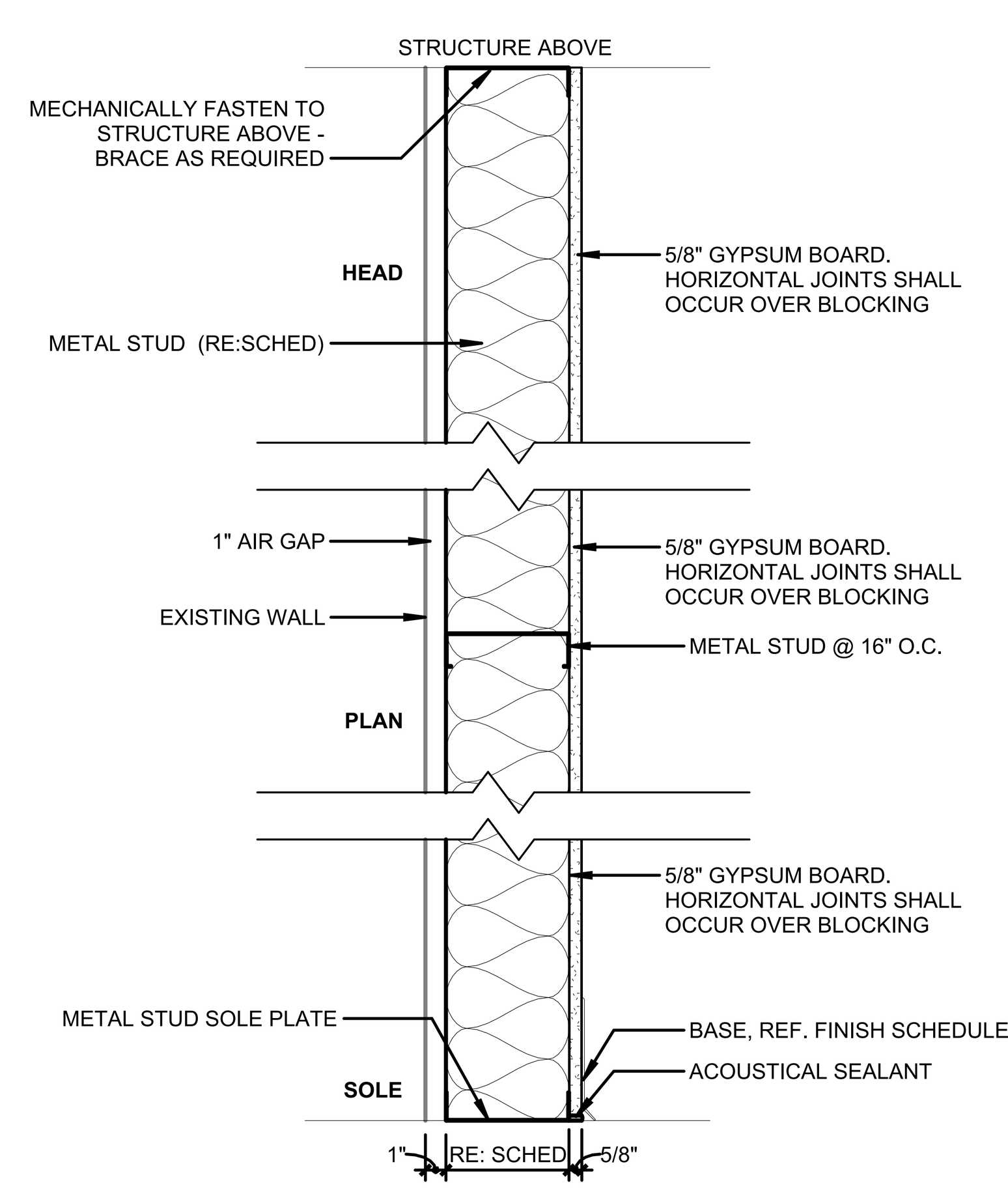
PARTITION SERIES S / TYPE A 7
1 1/2" = 1'-0"

PARTITION SCHEDULE S SERIES							
PARTITION TYPE MARK	FRAMING DEPTH	FRAMING SPACING	DETAILS TOP	DETAILS BOT	ATTEN THK	FIRE RTG	SHEET NOTES
2S10A	6" + 4"	16" O.C.	7/A-502	7/A-502	5-1/2"	2 HOURS	UL RATING UL419



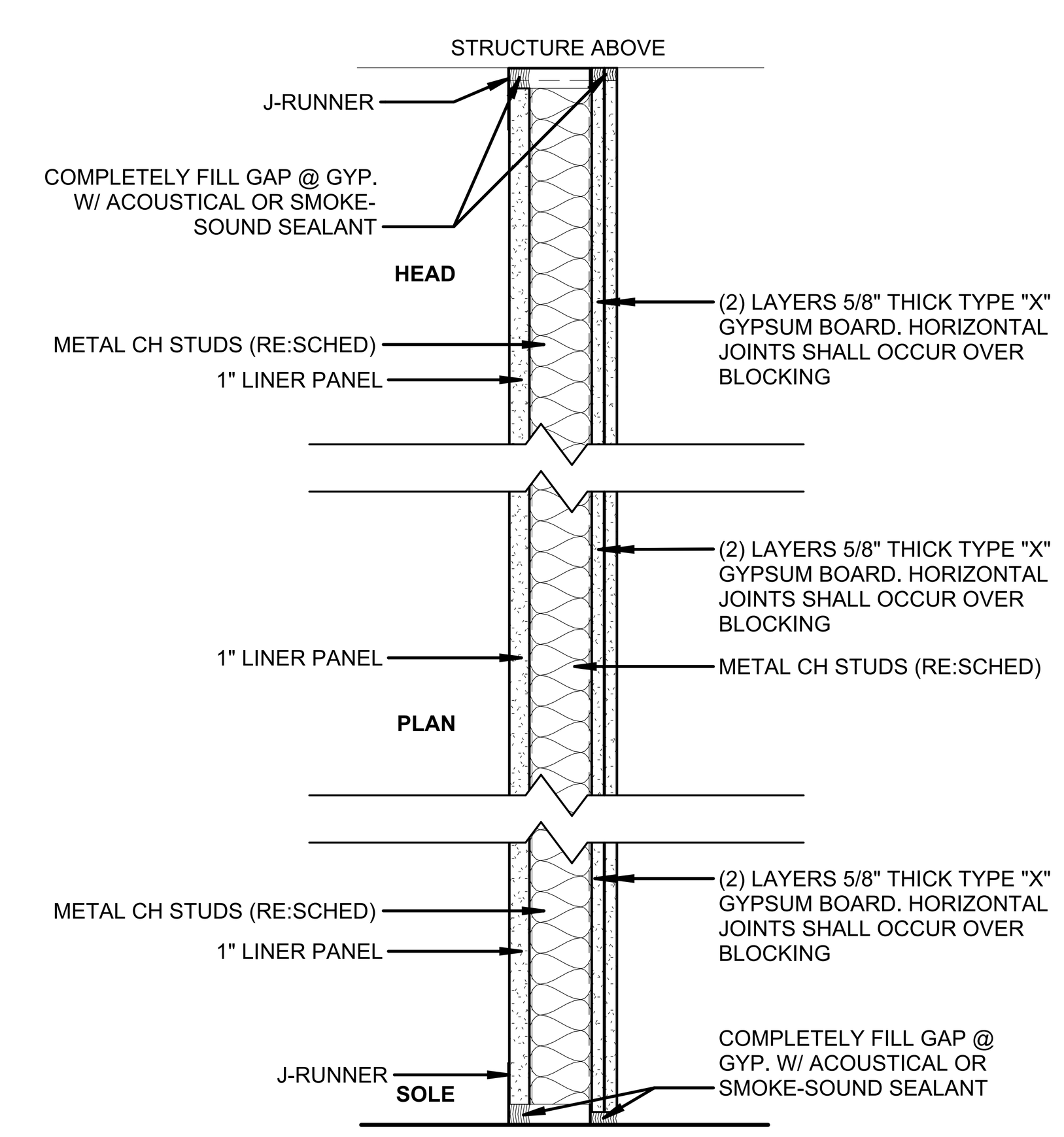
PARTITION SERIES R / TYPE A 5
1 1/2" = 1'-0"

PARTITION SCHEDULE R SERIES							
PARTITION TYPE MARK	FRAMING DEPTH	FRAMING SPACING	DETAILS TOP	DETAILS BOT	ATTEN THK	FIRE RTG	SHEET NOTES
R3A	3-5/8"	16" O.C.	5/A-502	5/A-502	3-1/2"	-	



PARTITION SERIES Q / TYPE A 3
1 1/2" = 1'-0"

PARTITION SCHEDULE Q SERIES							
PARTITION TYPE MARK	FRAMING DEPTH	FRAMING SPACING	DETAILS TOP	DETAILS BOT	ATTEN THK	FIRE RTG	SHEET NOTES
Q3A	3-5/8"	16" O.C.	3/A-502	3/A-502	3-1/2"	-	



PARTITION SERIES J / TYPE A 1
1 1/2" = 1'-0"

PARTITION SCHEDULE J SERIES							
PARTITION TYPE MARK	FRAMING DEPTH	FRAMING SPACING	DETAILS TOP	DETAILS BOT	ATTEN THK	FIRE RTG	SHEET NOTES
2J4A	4"	16" O.C.	1/A-502	1/A-502	3-1/2"	2 HOURS	UL RATING U415 - SYSTEM B

CLARIFICATION OF INTERIOR PARTITION DESIGNATIONS

1A2A ← **PARTITION TAG**

SOUND ATTENUATION BLANKET (IN ALL PARTITIONS, U.N.O.)
PARTITION TYPE DESIGNATOR (SEE **PARTITION SERIES TYPE SCHEDULES)**
FRAMING MEMBER DEPTH (SEE **TABLE B** OR **TABLE C** - BELOW
PARTITION SERIES (SEE **TABLE A** - BELOW)
FIRE RATING (IF APPLICABLE)

TABLE A- PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBER	SHEATHING
A	1-LAYER	METAL STUD	1-LAYER
B	2-LAYERS	METAL STUD	2-LAYERS
C	1-LAYER	METAL STUD	2-LAYERS
D	1-LAYER	METAL STUD	NONE
E	2-LAYERS	METAL STUD	NONE
F	1-LAYER	MTL HAT CHANNEL	NONE
G	1-LAYER	NONE	NONE
H	1-LAYER	METAL C-H STUD	LINER PANEL
J	2-LAYERS	METAL C-H STUD	LINER PANEL
K	1-LAYER	(2) METAL STUDS	1-LAYER
L	2-LAYERS	(2) METAL STUDS	2-LAYERS
M	NONE	CMU	NONE
N	2-LAYERS	MTL HAT CHANNEL	NONE
P	NONE	METAL STUD	NONE
Q	1-LAYERS	METAL C-STUD	1" AIR GAP
R	1-LAYERS	METAL C-STUD	4-1/2" AIR GAP
S	2-LAYERS	METAL C-STUD 1-1/2" AIR GAP METAL C-STUD	2-LAYERS
T-U	RESERVED FOR FUTURE EXPANSION		
V-Z	CUSTOM	N/A	N/A

TABLE B- FRAMING DEPTH SCHEDULE

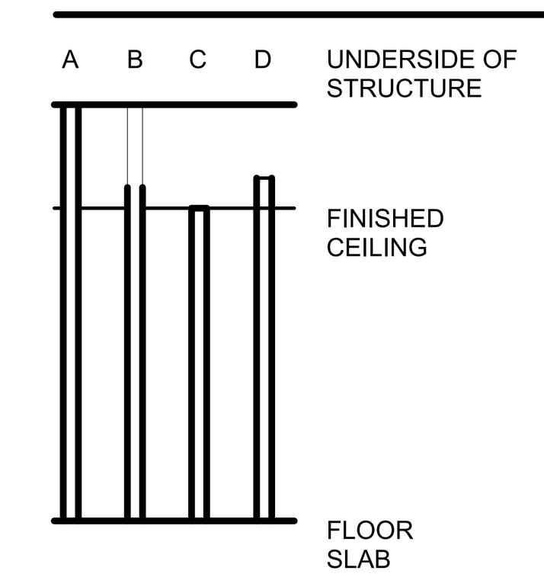
TAG NUMBER DESIGNATION	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8"		N/A
1	1 5/8"	N/A	N/A
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	2.5"
4	4"	4"	3.5"
6	6"	6"	5.5"
8	8"	N/A	7.25"
10	10"	N/A	9.25"

- GAUGE 16,18 USED FOR STRUCTURAL FRAMING; 20, 22, AND 25 USED FOR NON-STRUCTURAL FRAMING.
- USE OF DIMPLED STEEL STUDS ACCEPTABLE PROVIDED CONTRACTOR SUPPLIES DOCUMENTATION PROVING THE EQUIVALENT MINIMUM BASE METAL THICKNESS IS ACHIEVED.

TABLE C- MASONRY WIDTH SCHEDULE

TAG NUMBER DESIGNATION	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

DIAGRAM A - PARTITION TYPE DESIGNATOR



- PARTITION TYPES ARE NOT SEQUENTIAL.
- ALL PARTITION SHEATHING TO BE TYPE "X" GYPSUM BOARD UNLESS OTHERWISE NOTED.
- ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.
- THE THICKNESSES SHOWN ARE FINISH SURFACE TO FINISH SURFACE EXCLUDING THIN-SET CERAMIC TILE.
- PROVIDE BLOCKING IN PARTITIONS AS INDICATED. SEE CONSTRUCTION PLAN(S) AND/ OR INTERIOR ELEVATIONS FOR LOCATIONS.
- FOR INTERIOR FRAMING GAUGES REFER TO SPECIFICATION DIVISION 09 2116-GYPSUM BOARD ASSEMBLIES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS.
- CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF SLAB INFORMATION.

CHASE MARSHALL
A PROFESSIONAL ARCHITECTURAL CORPORATION

LAFAYETTE
1720 KALISTE SALOOM ROAD
SUITE B3 | LAFAYETTE, LA 70508

NEW ORLEANS
7222 SPRUCE STREET
NEW ORLEANS, LA 70118

| 337.326.4470 | CHASEMARSHALL.COM |

REVISIONS

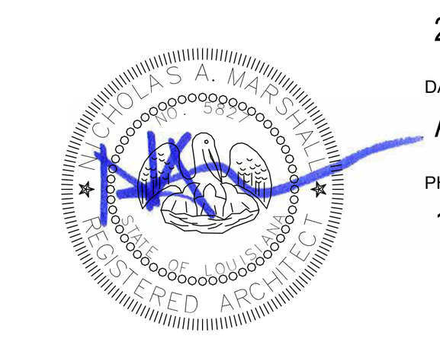
NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

PARTITION TYPES



PROJECT NUMBER: 2025.040
DRAWN BY: KS
DATE: APRIL 14, 2026
CHECKED BY: NM
PHASE: 100% BID SET

DOOR SCHEDULE

DOOR NO.	TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FIRE RATING	FROM	TO	HARDWARE SET	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME JAMB	FRAME HEAD
102A	C	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	-	ELEVATOR VESTIBULE	EXTERIOR	#2	A	HOLLOW METAL	PAINT	2"	2"
102B	-	4' - 6"	7' - 0"	-	ELEVATOR ENTRANCE DOOR	-	-	ELEVATOR VESTIBULE	ELEVATOR	-	-	-	-	-	-
200A	-	4' - 6"	7' - 0"	-	ELEVATOR ENTRANCE DOOR	-	-	ELEVATOR VESTIBULE	ELEVATOR	-	-	-	-	-	-
200B	D	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	-	ELEVATOR VESTIBULE	LAB CORRIDOR	#2	A	HOLLOW METAL	PAINT	2"	2"
200C	D	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	LAB CORRIDOR	#2	A	HOLLOW METAL	PAINT	2"	2"
201A	B	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	CENTER STAIR	#9	A	HOLLOW METAL	PAINT	2"	2"
201B	F	4' - 0"	6' - 8"	-	-	-	-	CENTER STAIR	EXIT CORR.	#14	A	HOLLOW METAL	PAINT	2"	2"
202	A	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	EXISTING ROOM	#10		HOLLOW METAL	PAINT	2"	2"
209	A	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	STORAGE	#13	A	HOLLOW METAL	PAINT	2"	2"
300A	-	4' - 6"	7' - 0"	-	ELEVATOR ENTRANCE DOOR	-	-	ELEVATOR	ELEVATOR VESTIBULE	-		-			
300B	D	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	-	ELEVATOR VESTIBULE	LAB CORRIDOR	#2	A	HOLLOW METAL	PAINT	2"	2"
300C	D	6' - 0"	7' - 0"	1 3/4"	CORRIDOR	PAINT	90	LAB CORRIDOR	CORRIDOR	#3					
301	D	6' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	90	CENTER STAIR	CORRIDOR	#3	A	HOLLOW METAL	PAINT	2"	2"
302	C	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	MECH.	#6	A	HOLLOW METAL	PAINT	2"	2"
304	A	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	MEN'S RR	CORRIDOR	#11	A	HOLLOW METAL	PAINT	2"	2"
305	C	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	JAN. CLO.	CORRIDOR	#7	A	HOLLOW METAL	PAINT	2"	2"
306	A	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	WOMEN'S RR	#12	A	HOLLOW METAL	PAINT	2"	2"
307	E	5' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	FUME HOOD / EQUIP.	#5	A	HOLLOW METAL	PAINT	2"	2"
308	C	6' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	FREEZER STORAGE	#8	A	HOLLOW METAL	PAINT	2"	2"
309	A	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	ELEC. ROOM	#13	A	HOLLOW METAL	PAINT	2"	2"
319A	E	5' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	CORRIDOR	LAB W	#1	A	HOLLOW METAL	PAINT	2"	2"
319B	A	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	-	LAB W	EXTERIOR	#4	A	HOLLOW METAL	PAINT	2"	2"
330A	E	5' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	90	LAB E	CORRIDOR	#4	A	HOLLOW METAL	PAINT	2"	2"
330B	A	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	-	LAB E	EXTERIOR	#1	A	HOLLOW METAL	PAINT	2"	2"

DOOR HARDWARE SCHEDULE

HARDWARE SET #1
DOORS: 319A, 330B

3 HINGE
1 EXIT DEVICE
1 DOOR CLOSER
1 THRESHOLD
1 GASKETING
1 SWEEP
1 DRIP CAP

HARDWARE SET #2
DOORS: 30B, 200B, 200C, 102A

6 HINGE
1 REMOVEABLE MULLION
2 EXIT DEVICE
3 RIM CYLINDER
2 DOOR CLOSER
2 WALL STOP
1 GASKETING
2 SILENCERS

HARDWARE SET #3
DOORS: 300C, 301

6 HINGE
1 REMOVEABLE MULLION
2 EXIT DEVICE
3 RIM CYLINDER
2 DOOR CLOSER
2 WALL STOP
1 GASKETING
1 GASKETING

HARDWARE SET #4
DOORS: 319B, 330A

6 HINGE
1 FLUSHBOLT
1 DUST PROOF STRIKE
1 CYLINDRICAL LOCK
1 COORDINATOR
2 MOUNTING BRACKET
2 DOOR CLOSER EHD
2 PROTECTION PLATE
2 WALL STOP
1 ASTRAGAL
2 SILENCERS

HARDWARE SET #5
DOORS: 307

6 HINGE
1 FLUSHBOLT
1 DUST PROOF STRIKE
1 CYLINDRICAL LOCK
1 COORDINATOR
2 MOUNTING BRACKET
2 DOOR CLOSER
2 PROTECTION PLATE
1 ASTRAGAL
3 SILENCERS

HARDWARE SET #6
DOORS: 302

6 HINGE
1 FLUSHBOLT 1855P
1 DUST PROOF STRIKE
1 CYLINDRICAL LOCK
2 OVERHEAD STOP
1 ASTRAGAL
2 SILENCERS

HARDWARE SET #7
DOORS: 305

6 HINGE
1 FLUSHBOLT
1 DUST PROOF STRIKE
1 CYLINDRICAL LOCK
2 WALL STOP
1 ASTRAGAL
2 SILENCERS

HARDWARE SET #8
DOORS: 308

6 HINGE
1 FLUSHBOLT
1 DUST PROOF STRIKE
1 CYLINDRICAL LOCK
2 PROTECTION PLATE
2 WALL STOP
1 ASTRAGAL
2 SILENCERS

HARDWARE SET #9
DOORS: 201A

3 HINGE
1 EXIT DEVICE
1 RIM CYLINDER
1 DOOR CLOSER
1 WALL STOP
1 GASKETING

HARDWARE SET #10
DOORS: 202

3 HINGE
1 CYLINDRICAL LOCK
1 WALL STOP
3 SILENCERS

HARDWARE SET #11
DOORS: 304

3 HINGE
1 PULL PLATE
1 PUSH PLATE
1 DOOR CLOSER
1 WALL STOP
1 GASKETING

HARDWARE SET #12
DOORS: 306

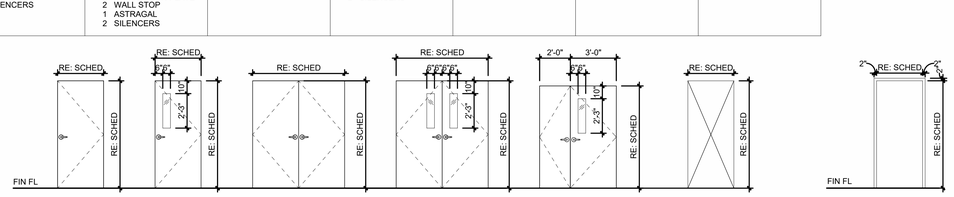
3 HINGE
1 CYLINDRICAL LOCK
1 OVERHEAD STOP
3 SILENCERS

HARDWARE SET #13
DOORS: 309, 209

3 HINGE
1 CYLINDRICAL LOCK
1 WALL STOP
3 SILENCERS

HARDWARE SET #14
CASED OPENING

NOTE: CASED OPENING, NO HARDWARE REQUIRED.



TYPE A
SINGLE HM DOOR

TYPE B
SINGLE HM DOOR
*FR+SG REQUIRED AT DOOR 201A

TYPE C
DOUBLE HM DOOR

TYPE D
DOUBLE HM DOOR W/ VISION PANEL
*FR+SG REQUIRED AT DOORS 200C, 300C, 301, 307, 319A, 330A

TYPE E
UNEVEN DOUBLE HM DOOR W/ VISION PANEL
*SG REQUIRED AT DOOR 307

TYPE F
CASED OPENING

NOTE:
1. FIELD VERIFY ALL DIMENSIONS FOR WINDOWS, STOREFRONT, AND DOORS IN EXISTING OPENINGS

2. FR+SG DENOTES FIRE RATED+SAFETY GLASS (RE: IBC SECTION 2406 SAFETY GLAZING & SECTION 716.2.5 GLAZING IN FIRE DOOR ASSEMBLIES)

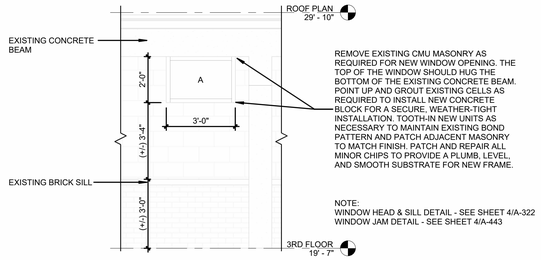
DOOR TYPE

TYPE A
HM FRAME

DOOR FRAME TYPE

WINDOW SCHEDULE

TYPE	FINISH COLOR	GLASS	B.O.D.
A - STOREFRONT	CLEAR ANODIZED	1"	KAWNEER TRIFAB VERSAGLAZE 451 FRAMING SYSTEM

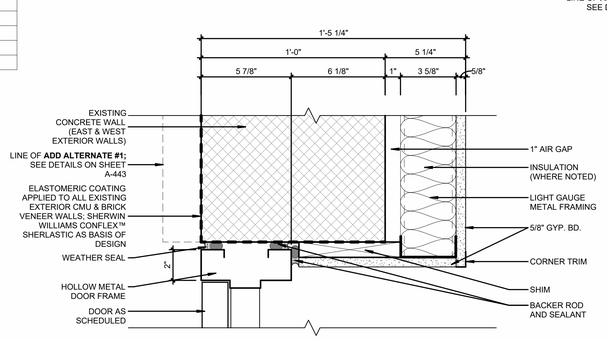


TYPE A
STOREFRONT @
CMU WALL / BRICK SILL

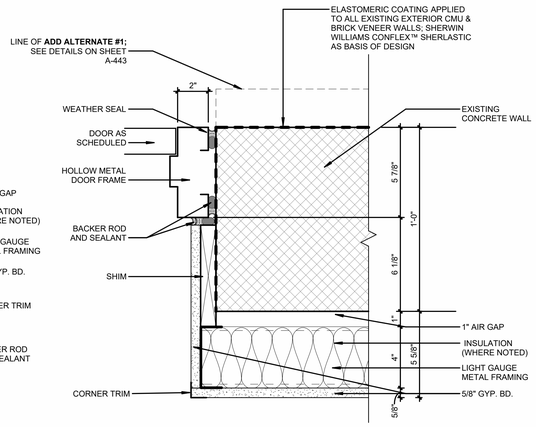
WINDOW TYPE

FINISH SCHEDULE

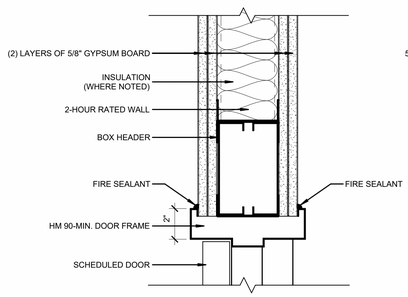
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH
101	LOADING DOCK	SEALED CONCRETE	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
102	ELEVATOR VESTIBULE	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
200	LAB CORRIDOR	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
200A	ELEVATOR VESTIBULE	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
201	CORRIDOR	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
201B	EXIT CORR.	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
209	STORAGE	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
300	LAB CORRIDOR	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
300A	ELEVATOR VESTIBULE	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
301	CORRIDOR	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
302	MECH.	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
304	MEN'S RR	CONCRETE W/ EPOXY COATING	6X6 COVE BASE CERAMIC TILE	GYP. BOARD; PAINTED; 6X6 CERAMIC TILE ON WET WALLS (UP TO 4'-0")	EXPOSED CONCRETE; PAINTED
305	JAN. CLO.	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED; FRP ON ALL WALLS (UP TO 4'-0")	EXPOSED CONCRETE; PAINTED
306	WOMEN'S RR	CONCRETE W/ EPOXY COATING	6X6 COVE BASE CERAMIC TILE	GYP. BOARD; PAINTED; 6X6 CERAMIC TILE ON WET WALLS (UP TO 4'-0")	EXPOSED CONCRETE; PAINTED
307	FUME HOOD / EQUIP.	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
308	FREEZER STORAGE	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
309	ELEC. ROOM	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED
319	LAB W	CONCRETE W/ EPOXY COATING	6" RUBBER WALL BASE	GYP. BOARD; PAINTED	EXPOSED CONCRETE; PAINTED



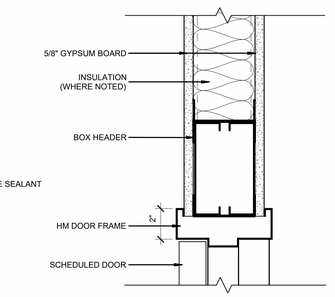
DETAIL - HM DOOR - HEAD @ VERTICAL METAL PANEL 6
3" = 1'-0"



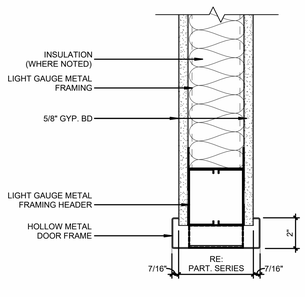
DETAIL - HM DOOR - JAMB @ VERTICAL METAL PANEL 3
3" = 1'-0"



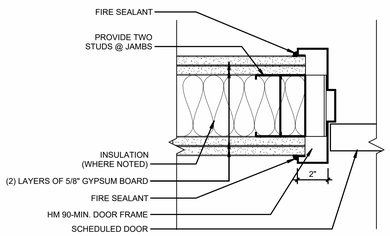
HM DOOR HEAD DETAIL @ GYP. - 2HR 8
3" = 1'-0"



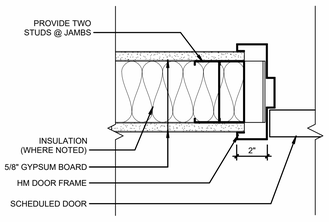
HM DOOR HEAD DETAIL @ GYP. 5
3" = 1'-0"



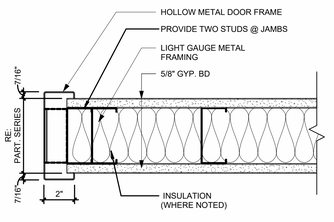
HM C.O. HEAD DETAIL @ GYP. 2
3" = 1'-0"



HM DOOR JAMB DETAIL @ GYP. - 2HR 7
3" = 1'-0"



HM DOOR JAMB DETAIL @ GYP. 4
3" = 1'-0"



HM C.O. JAMB DETAIL @ GYP. 1
3" = 1'-0"

CHASE MARSHALL
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LAFAYETTE
1720 KALISTE SALOOM ROAD
SUITE B3 | LAFAYETTE, LA 70508
NEW ORLEANS
7222 SPRUCE STREET
NEW ORLEANS, LA 70118
| 337.326.4470 | CHASEMARSHALL.COM |

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

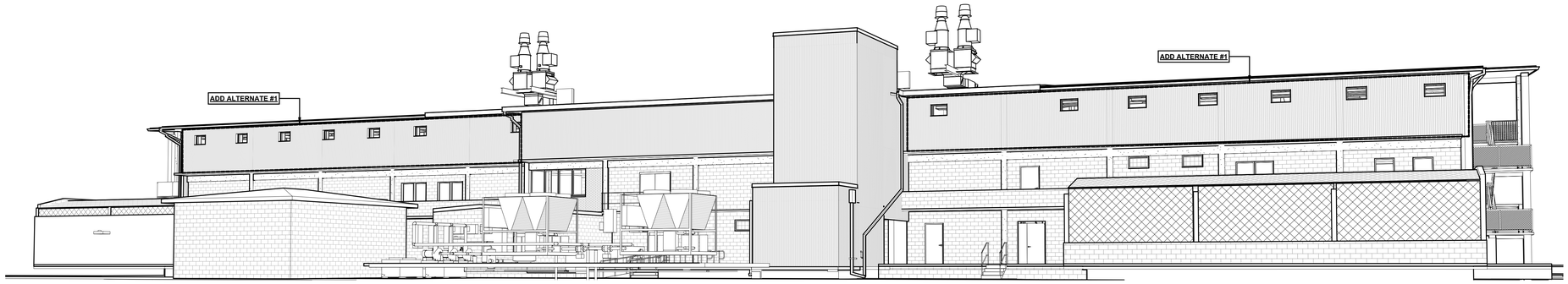
SCHEDULES - OPENING & FINISH

NORTH

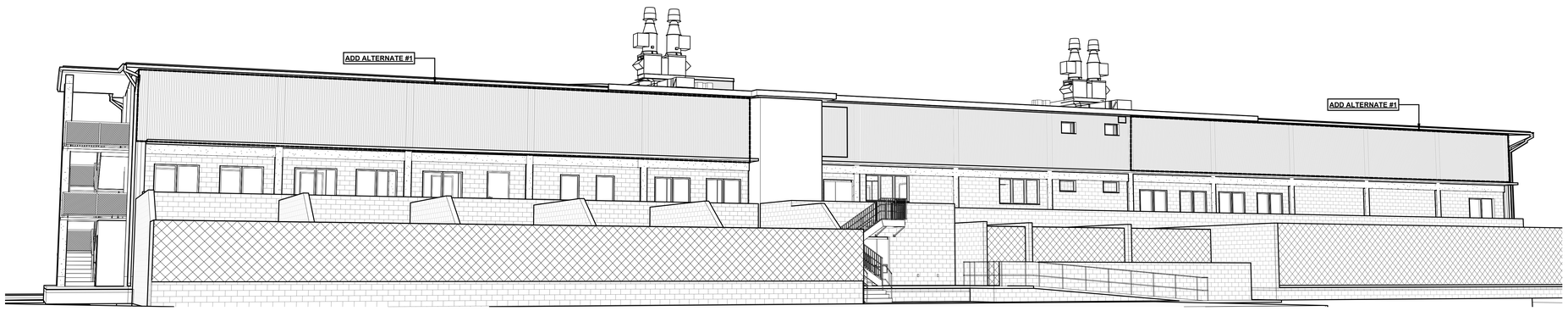
PROJECT NUMBER	DRAWN BY
2025.040	CC
DATE	CHECKED BY
APRIL 14, 2026	NM
PHASE	
100% BID SET	

NICHOLAS A. MARSHALL
LOUISIANA
REGISTERED ARCHITECT

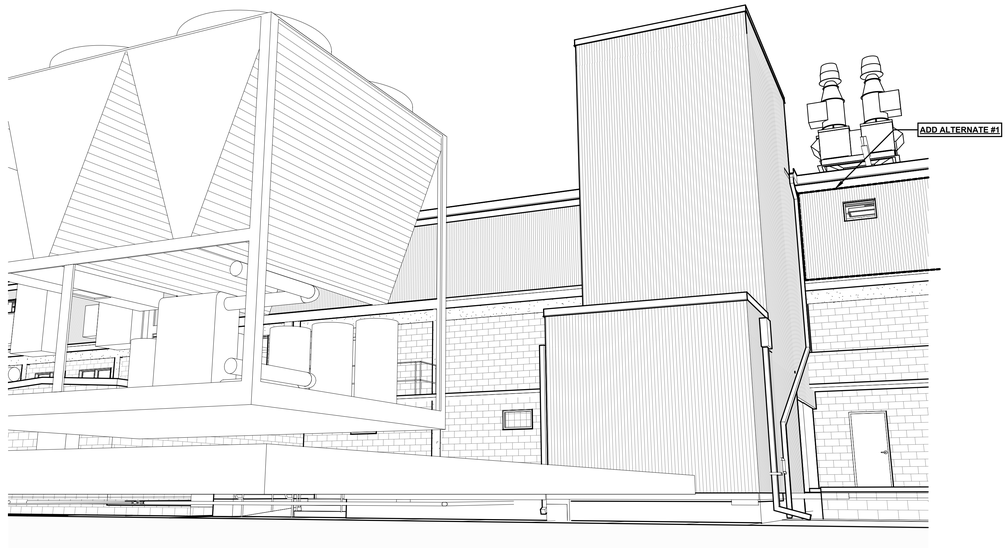
A-602



3D VIEW OF NORTH SIDE OF BUILDING | 3



3D VIEW OF SOUTH SIDE OF THE BUILDING | 2



3D VIEW OF LOADING DOCK AND ELEVATOR | 1

CHASE MARSHALL

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SUITE B3 | LAFAYETTE, LA 70508

NEW ORLEANS
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NEW ORLEANS, LA 70118

| 337.326.4470 | CHASEMARSHALL.COM |

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

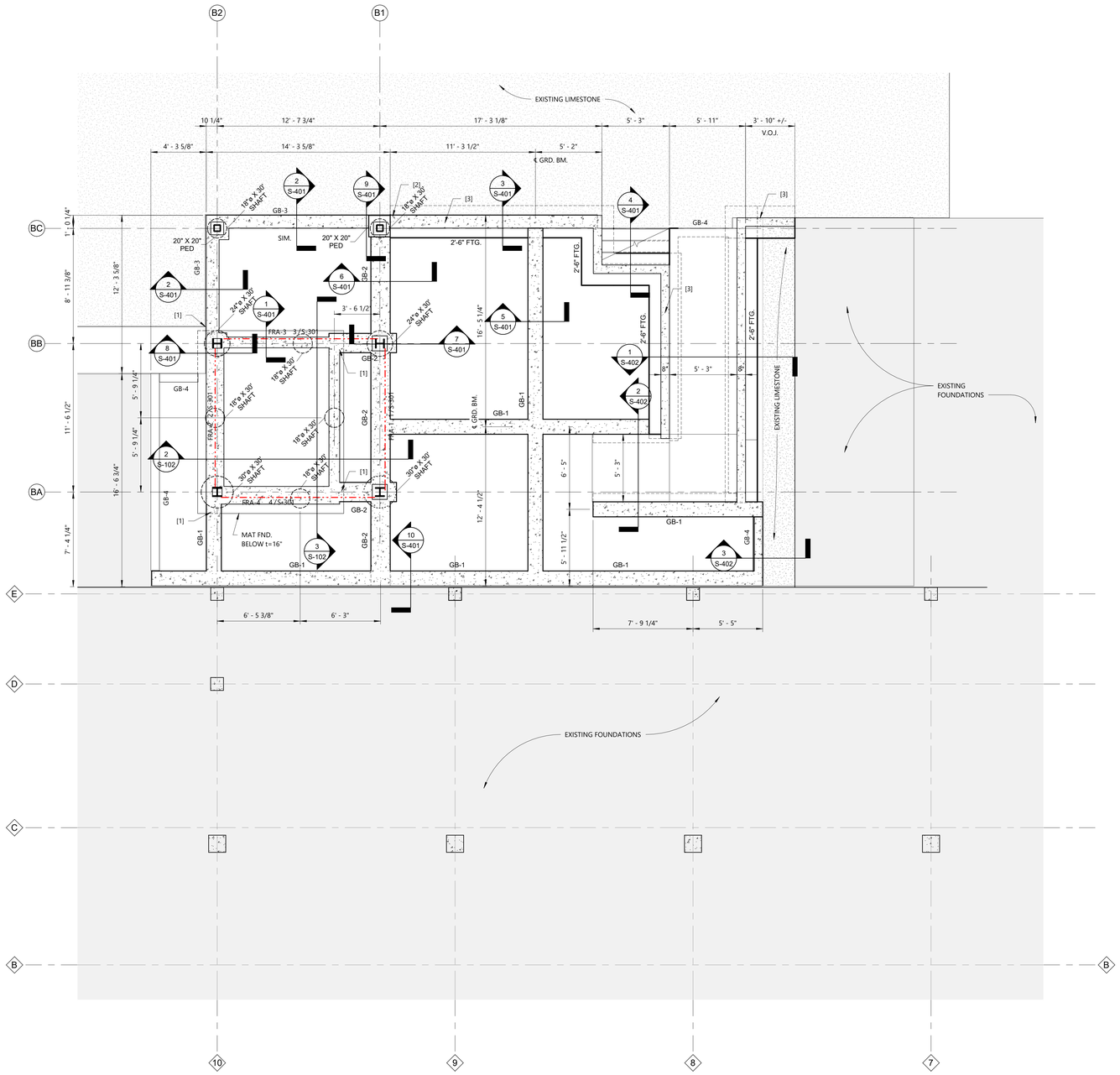
NORTH

PICTORAL VIEWS

PROJECT NUMBER: 2025.040
DRAWN BY: CC
DATE: APRIL 14, 2026
CHECKED BY: NM
PHASE: 100% BID SET

NICHOLAS A. MARSHALL
LICENSED ARCHITECT

A-900



GRADE BEAM SCHEDULE

Mark	Width	Depth	Top Bars	Bottom Bars	Ties
GB-1	1'-2"	1'-2"	(2) #6 CONT.	(2) #6 CONT.	#3 TIES @ 24" O.C.
GB-2	1'-6"	2'-0"	(3) #6 CONT.	(3) #6 CONT.	#3 TIES @ 24" O.C.
GB-3	1'-0"	3'-2"	(2) #6 CONT.	(2) #6 CONT.	#3 TIES @ 12" O.C.
GB-4	8"	10"	NONE	(2) #5 CONT.	NONE

N
PLAN

1A FOUNDATION PLAN
1/4" = 1'-0"

CHASE MARSHALL
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FOUNDATION PLAN NOTES AND LEGEND:

THE TOP OF ALL GRADE BEAMS AND PEDESTALS SHALL BE AT EL. -1'-2", UNLESS NOTED OTHERWISE.

THE TOP OF ALL DRILL SHAFTS SHOWN UNDERNEATH GRADE BEAMS OR PEDESTALS SHALL BE AT EL. -3'-6 1/2".

THE TOP OF ALL DRILL SHAFTS SHOWN UNDERNEATH ELEVATOR MAT FND. SHALL BE AT EL. -5'-7".

THE CENTER OF GRAVITY OF ALL SHAFTS IS AT THE INTERSECTION OF COLUMN GRIDLINES OR CENTERED ON GRADE BEAM IF NO COLUMN IS PRESENT, UNLESS NOTED OTHERWISE.

ALL SHAFTS UNDERNEATH GRADE BEAM SHALL BE CENTERED ON GRADE BEAMS, UNLESS NOTED OTHERWISE.

PROVIDE #5 L-BAR (a=10", b= 26") DOWELS AT 24" O.C. ALONG TOP OF ALL GRADE BEAMS. SEE FOUNDATIONS DETAILS (U.N.O.).

RE: SHEET S-401 FOR DRILL SHAFT INFORMATION.

ALL GRADE BEAMS AND FOOTINGS SHALL BE PLACED OVER A 2" THICK CONCRETE DRY BOTTOM AS DEEMED APPROPRIATE BY THE CONTRACTOR IF A PRECIPITATION EVENT IS ANTICIPATED BEFORE CONCRETE PLACEMENT. EXPOSED FOOTING AND GRADE BEAM BOTTOMS THAT DO NOT CONTAIN DRY BOTTOMS SHALL NOT BE SUBJECTED TO A PRECIPITATION EVENT PRIOR TO PLACING CONCRETE. THE GRADE BEAM AND SPREAD FOOTING SUBGRADE SHALL BE APPROVED BY THE TESTING AGENCY FOR ADEQUATE BEARING CAPACITY PRIOR TO PLACEMENT OF DRY BOTTOMS/CONCRETE. DRY BOTTOMS/CONCRETE FOOTING SHALL BE PLACED AS SOON AS POSSIBLE AFTER APPROVAL AND NO PRECIPITATION EVENT SHALL OCCUR IN THE TIME BETWEEN APPROVAL AND PLACEMENT. DO NOT PLACE DRY BOTTOM CONCRETE OVER DRILLED SHAFTS.

SEE GENERAL NOTES FOR FORMING REQUIREMENTS OF FOUNDATION ELEMENTS.

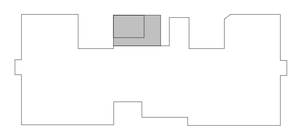
SEE SPECIFICATION 31 2100 FOR EARTH MOVING AT BUILDING PAD REQUIREMENTS.

[1] DOWEL GRADE BEAMS INTERSECTING WITH ELEVATOR SHAFT WALLS w/ 3 #6 T. & B. (TYP.)

[2] EXTEND GRADE BEAM REINFORCING INTO WALL.

[3] CONCRETE WALL ON CONTINUOUS FOOTING. SEE DETAILS. (TYP.)

KEY PLAN



FIRST FLOOR

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

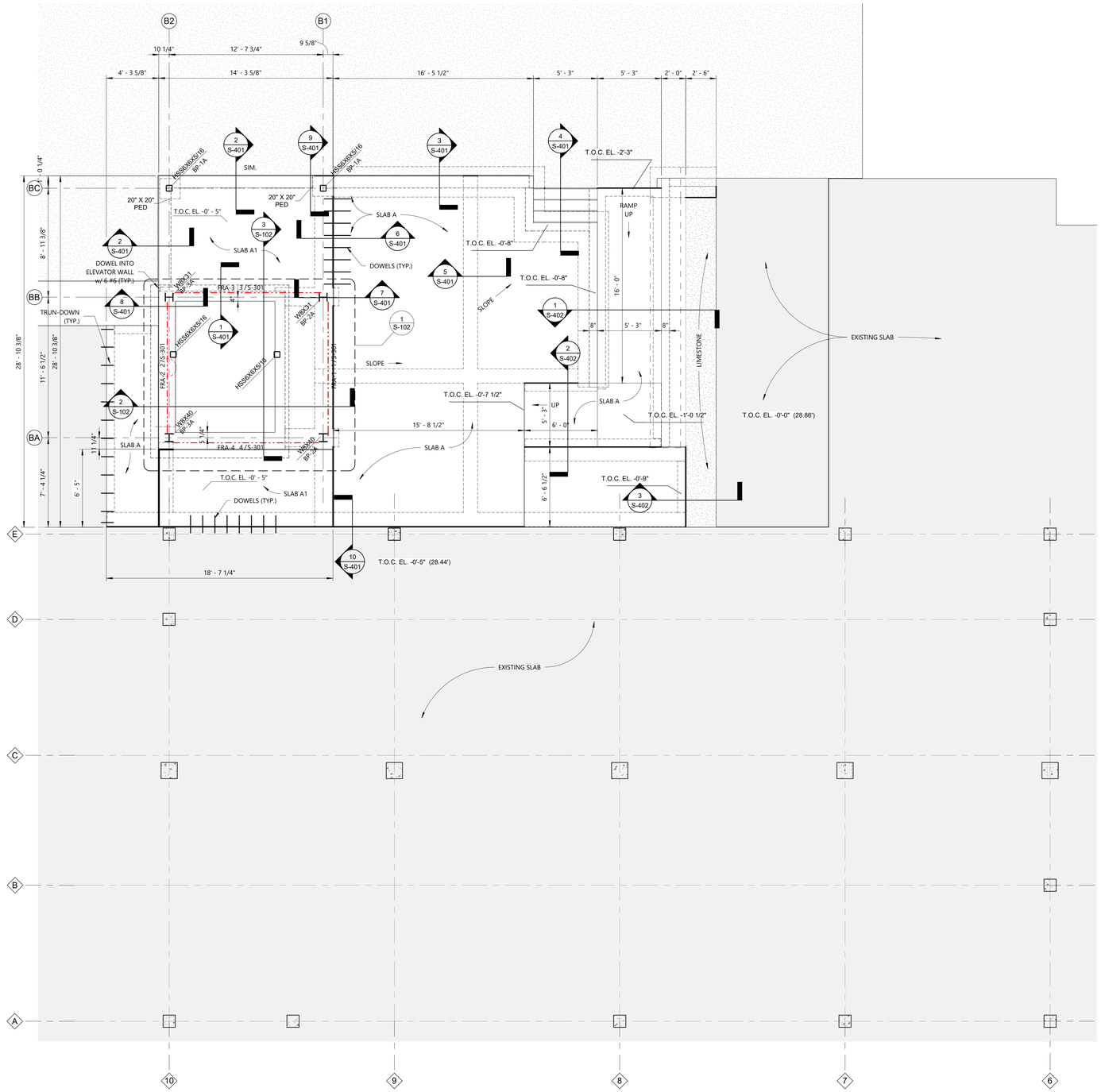
FOUNDATION PLAN

FOX NESBIT
BATON ROUGE NEW ORLEANS
RUSTON LAFAYETTE DESTIN
225.293.6595 www.fox-nesbit.com
© 2026 26005 B360 R-24

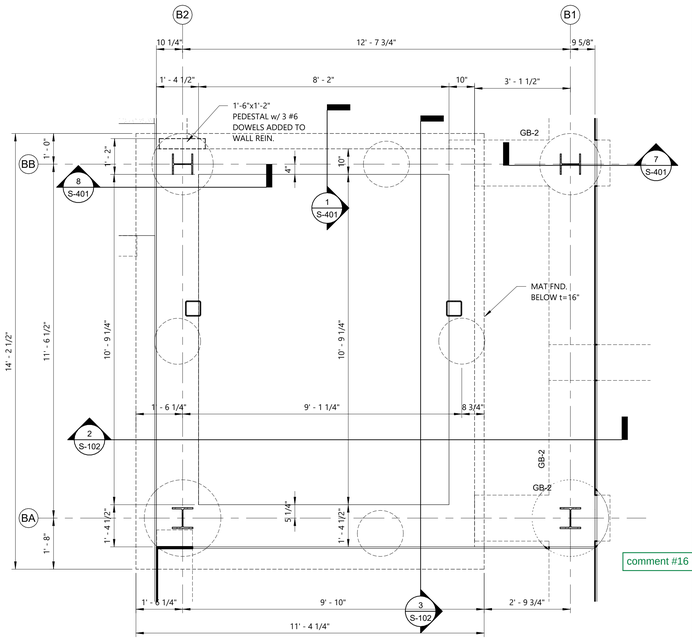
GLEN A. LANDRY
REG. No. 30367
PROFESSIONAL ENGINEER
4/14/26

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

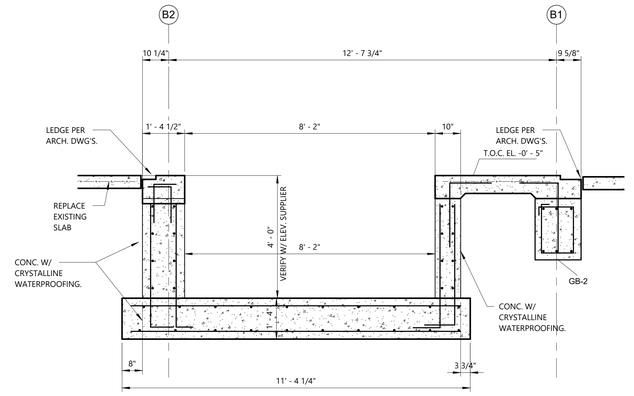
S-101



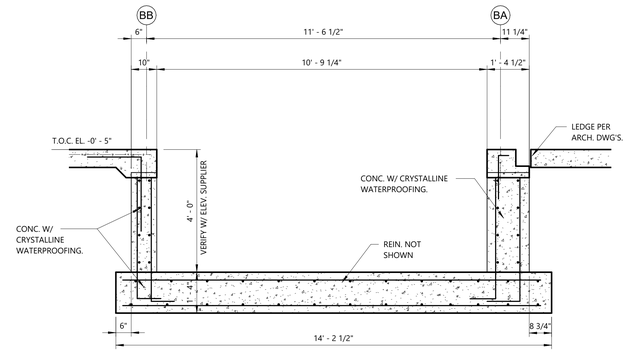
1A SLAB PLAN
1/4" = 1'-0"



1 DETAIL PLAN - ELEVATOR
1/2" = 1'-0"



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



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

FOX NESBIT
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| 337.326.4470 | CHASEMARSHALL.COM |

SLAB PLAN NOTES AND LEGEND:

SLAB A = 5" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH WWF 4x4 W4.0/W4.0 AND #4 BARS AT 48" O.C. EACH WAY. USE CONCRETE BLOCKS AT INTERSECTIONS OF #4 BARS TO KEEP WWF 1-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

SLAB A1 = 7" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" GRAVEL ON COMPACTED FILL. REINFORCE WITH #4 BARS AT 12" O.C. EACH WAY. USE CONCRETE BLOCKS TO KEEP BARS 2-1/2" CLEAR FROM TOP OF SLAB. SUBGRADE SHALL BE INSPECTED BY TESTING AGENCY AFTER COMPACTED FILL IS COMPLETE AND IMMEDIATELY PRIOR TO PLACEMENT OF DRAINAGE COURSE.

CORNER BARS = PROVIDE (3)-#4 BARS 5'-0" LONG CENTERED IN SLAB AT ALL RE-ENTRANT (INSIDE) CORNERS OF SLAB.

ELEVATOR NOTE = THE LOCATION OF ELEMENTS ASSOCIATED WITH THE ELEVATOR REQUIRED OPENING AND PIT SHALL BE VERIFIED BY THE GENERAL CONTRACTOR WITH THE ELEVATOR SUPPLIER AND COORDINATED PRIOR TO MAKING ANY RELATED CONSTRUCTION SUBMITTALS FOR ARCHITECT/ENGINEER TO REVIEW.

comment #16

ELEVATOR POSTS = PROVIDE HSS6x6x5/16 POSTS AT ALL GUIDE LOCATIONS ALONG ELEVATOR SHAFT. EXACT NUMBER AND LOCATION OF EACH POST SHALL BE DETERMINED BY GENERAL CONTRACTOR BASED ON LOCATION OF ELEVATOR RAILS. SEE DETAIL 8/S-503 FOR POST CONNECTION DETAILS. ELEVATOR POSTS SHALL BE PROVIDED IN SEPARATE STRUCTURAL STEEL SHOP DRAWING SUBMITTAL AFTER ELEVATOR SUBMITTAL HAS BEEN REVIEWED AND APPROVED.

SLOPE SLAB AT ALL FLOOR DRAINS (NOT SHOWN) . RE: MECHANICAL/PLUMBING DRAWINGS FOR LOCATIONS OF FLOOR DRAINS. SEE GENERAL NOTES FOR MORE INFORMATION.

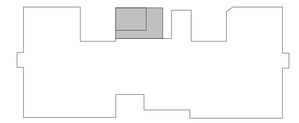
SLAB BLOCKOUT MAY BE USED AT COLUMNS AT CONTRACTOR'S OPTION. EDGE/CORNER COLUMN BLOCKOUT SHAPE SHALL BE RECTANGULAR AND INTERIOR COLUMN BLOCKOUT SHAPE SHALL BE CIRCULAR. EXACT SIZE AND SHAPE SHALL BE APPROVED BY STRUCTURAL ENGINEER. PROVIDE A SUBMITTAL TO ENGINEER FOR REVIEW AND APPROVAL. ALL SLAB REINFORCEMENT SHALL EXTEND CONTINUOUS THROUGH THE BLOCKOUTS AND ADDITIONAL #4 x 6'-0" LONG BARS SHALL BE PROVIDED ALONG ALL EDGES OF BLOCKOUT, UNLESS NOTED OTHERWISE. INCREASE SIZE OF BLOCKOUT AT DIAGONAL BRACE LOCATIONS TO ENSURE BRACE CAN BE ERECTED AND WELDS CAN BE MADE AT BRACE ATTACHMENT TO COLUMN WITHOUT REMOVAL OF SLAB.

DOWELS = 1/2"ø x 2'-0" LNG. SMOOTH BARS @ 12" c/c. GREASE END ON PAVING POUR.

TURN-DOWN = 1'-0" x 1'-0" TURN-DOWN BEAM WITH (2) #5 CONT. BARS. DOWEL INTO EXISTING SLAB WITH #4 BARS AT 18" O.C. DRILL AND EPOXY INTO EXISTING SLAB 5" MINIMUM DEPTH.

INLET SLAB CORNERS = PROVIDE AT ALL INLET CORNERS IN SLAB (2) #5 x 6'-0" BARS DIAGONALLY AT CENTER OF SLAB DEPTH.

KEY PLAN



FIRST FLOOR

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

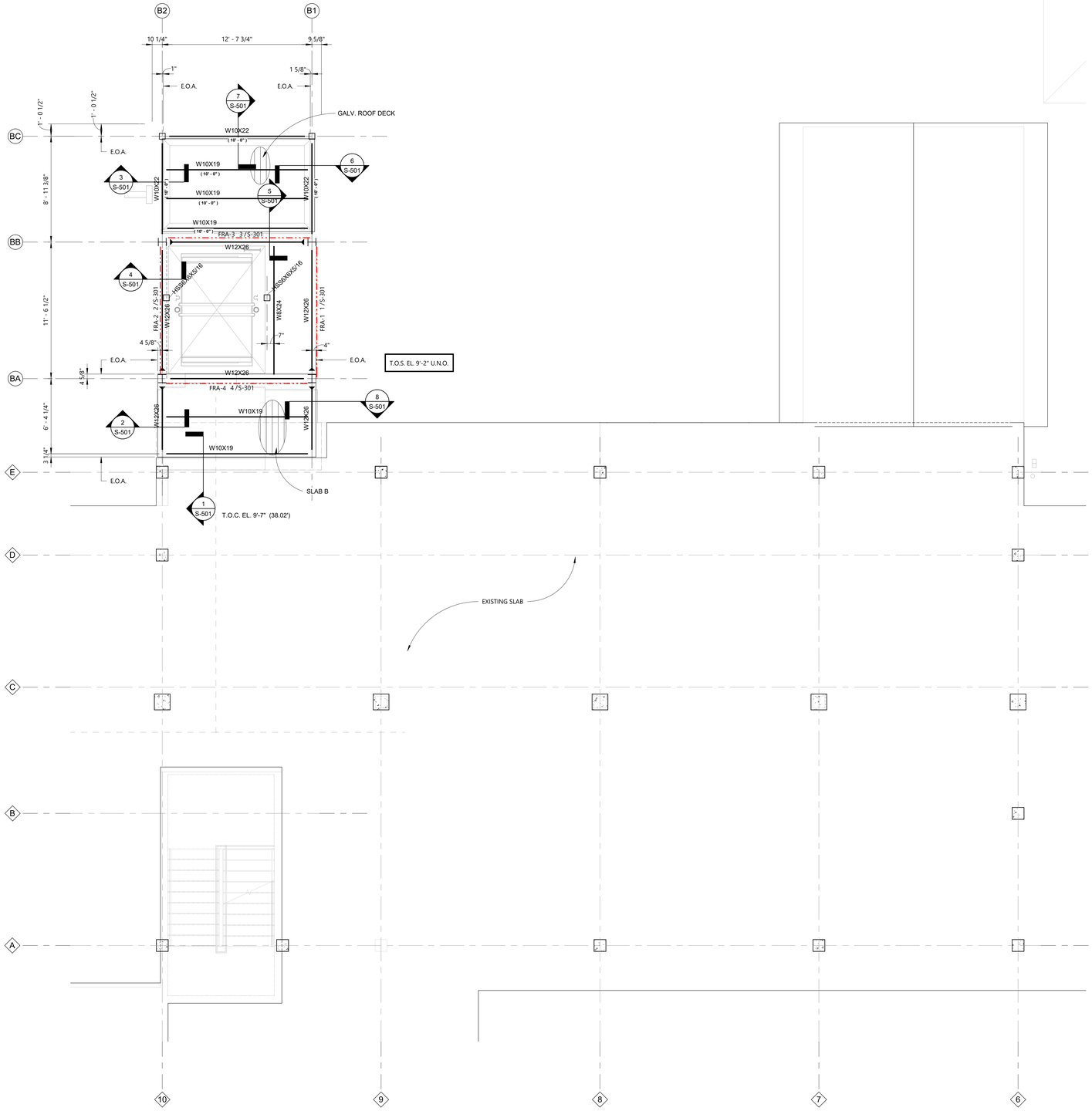
NORTH

SLAB PLAN

GLEN A. LANDRY
REG. No. 30367
STATE OF LOUISIANA
4/14/26

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-102



N

PLAN

1A 2ND FLOOR FRAMING PLAN

1/4" = 1'-0"

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ELEVATED FLOOR SLAB PLAN NOTES AND LEGEND:

SLAB B = 5" THICK (TOTAL) LIGHTWEIGHT CONCRETE ON 1.5VLI 18 GAGE GALVANIZED COMPOSITE METAL FLOOR DECK . REINF. WITH WWF 4x4 W4.0/W4.0 CENTERED IN CONCRETE THICKNESS ABOVE METAL DECK. TOP OF CONCRETE AT 2ND FLOOR = EL. 9'-7", 3RD FLOOR = EL. 19'-7".

SLOPE SLAB AT ALL FLOOR DRAINS (NOT SHOWN) . RE: MECHANICAL/PLUMBING DRAWINGS FOR LOCATIONS OF FLOOR DRAINS. SEE GENERAL NOTES FOR MORE INFORMATION.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAILS.

ELEVATOR POSTS = PROVIDE HSS6x6x5/16 POSTS AT GUIDE LOCATIONS ALONG ELEVATOR SHAFT. EXACT NUMBER AND LOCATION OF EACH POST SHALL BE DETERMINED BY GENERAL CONTRACTOR BASED ON LOCATION OF ELEVATOR RAILS. SEE DETAIL 8/S-502 FOR POST CONNECTION DETAILS.

▶——— MOMENT CONNECTION, REF: SECTION 5/S-503 OR SECTION 6/S-503

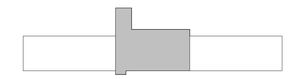
ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.5B 20 GAGE GALV. METAL ROOF DECK.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAILS.

ALL OVERFLOW DRAINS ON ROOF SHALL BE SET NO MORE THAN TWO INCHES ABOVE PRIMARY DRAINS. PROVIDE ADDITIONAL FRAMING WITH L4X4X1/4 ANGLES AS REQUIRED.

KEY PLAN



SECOND FLOOR

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FRAMING PLAN - 2ND FLOOR

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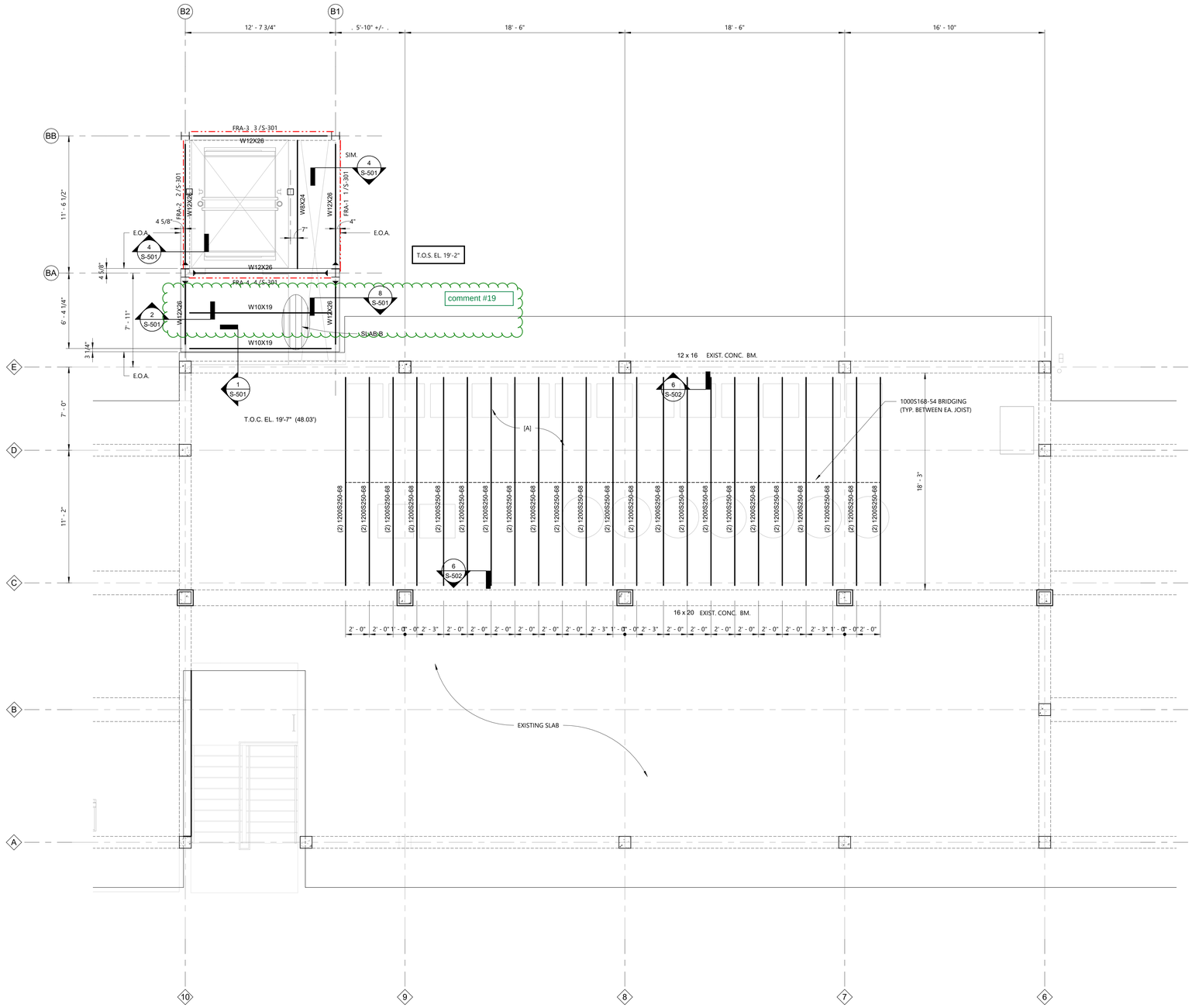
STATE OF LOUISIANA
GLEN A. LANDRY
REG. No. 30367
ENGINEER

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-201



N

PLAN

1A 3RD FLOOR FRAMING PLAN

1/4" = 1'-0"

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ELEVATED FLOOR SLAB PLAN NOTES AND LEGEND:

SLAB B = 5" THICK (TOTAL) LIGHTWEIGHT CONCRETE ON 1.5VLI 18 GAGE GALVANIZED COMPOSITE METAL FLOOR DECK . REINF. WITH WWF 4x4 W4.0/W4.0 CENTERED IN CONCRETE THICKNESS ABOVE METAL DECK. TOP OF CONCRETE AT 2ND FLOOR = EL. 9'-7", 3RD FLOOR = EL. 19'-7".

SLOPE SLAB AT ALL FLOOR DRAINS (NOT SHOWN) . RE: MECHANICAL/PLUMBING DRAWINGS FOR LOCATIONS OF FLOOR DRAINS. SEE GENERAL NOTES FOR MORE INFORMATION.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAILS.

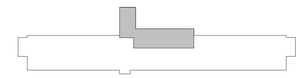
ELEVATOR POSTS = PROVIDE HSS6x6x5/16 POSTS AT GUIDE LOCATIONS ALONG ELEVATOR SHAFT. EXACT NUMBER AND LOCATION OF EACH POST SHALL BE DETERMINED BY GENERAL CONTRACTOR BASED ON LOCATION OF ELEVATOR RAILS. SEE DETAIL 8/S-502 FOR POST CONNECTION DETAILS.

▶ MOMENT CONNECTION, REF: SECTION 5/S-503 OR SECTION 6/S-503

EXISTING FLOOR NOTES:

(A) PLACE 2" +/- CONCRETE TOPPING IN EXISTING RECESS TO LEVEL SLAB. REINFORCE WITH 6X6 W2.9/W2.9 WITH BLOSTERS. TOPPING TO BE 3000 PSI CONCRETE MIX WITH PEA GRAVEL AGGREGATE. ROUGHEN AND CLEAN EXISITING CONCRETE SURFACE OF ANY OIL, DUST, LOOSE DEBRIS, ETC. ASSURE A CONCRETE SURFACE PROFILE (CSP) OF 5 TO 7. APPLY SIKA ARMATEC 110 EPOCEM BONDING AGENT OR APPROVED EQUAL PER MANUFACTURER'S INSTRUCTIONS. SEE ARCHITECTURAL DRAWINGS FOR AREA OF EXISTING RECESS.

KEY PLAN



THIRD FLOOR

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

FRAMING PLAN - 3RD FLOOR

NORTH

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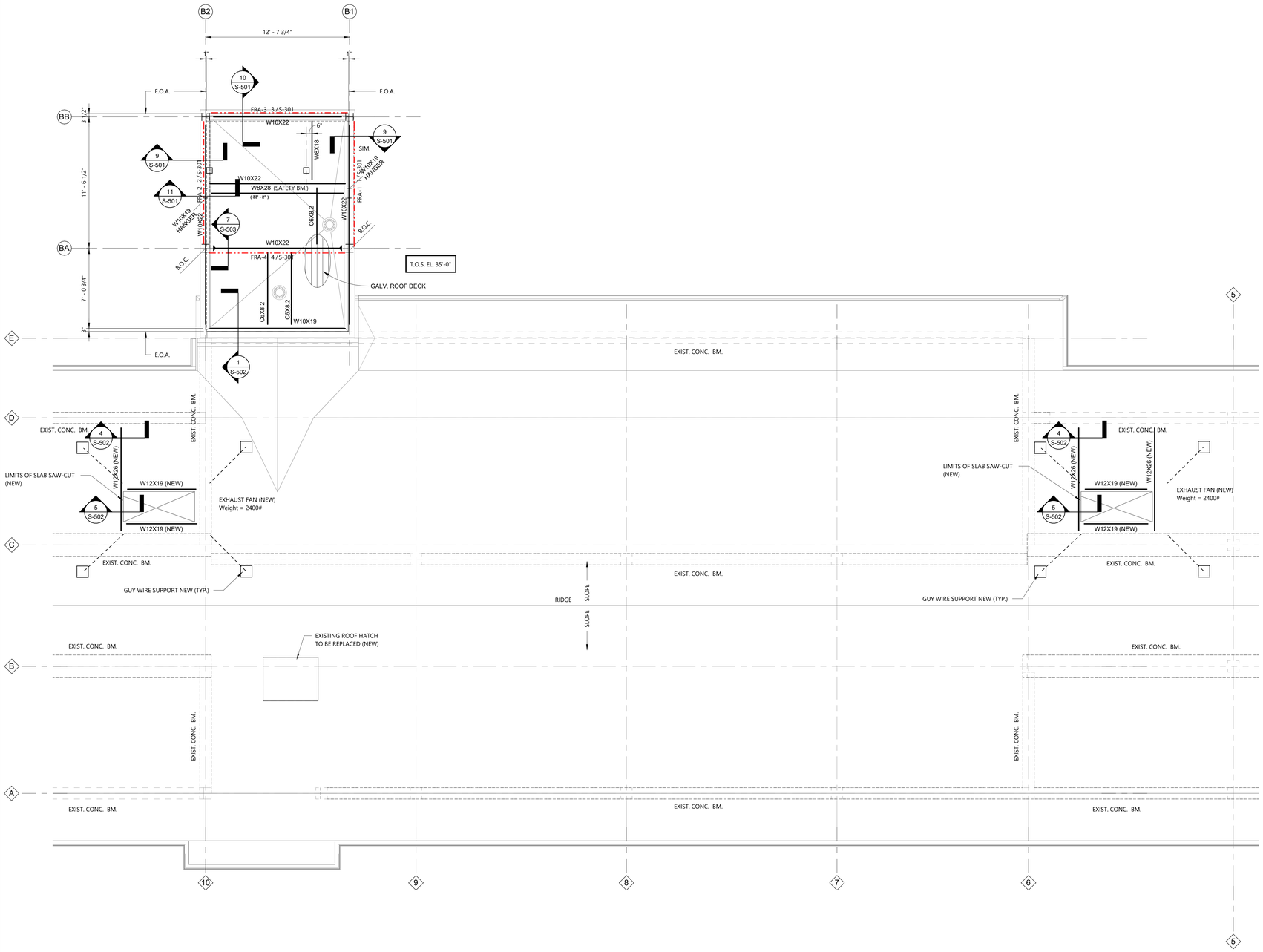
STATE OF LOUISIANA
ELEN A. LANDRY
REG. No. 40356
PROFESSIONAL ENGINEER
4/14/26

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-202



N

PLAN

1A ROOF FRAMING PLAN

1/4" = 1'-0"

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ROOF FRAMING PLAN NOTES AND LEGEND:

ROOF DECK = 1.5B 20 GAGE GALV. METAL ROOF DECK.

E.O.A. = EDGE OF ANGLE. PROVIDE CONTINUOUS EDGE ANGLE ALONG EDGES WHERE THIS DIMENSION IS INDICATED. SEE DETAILS.

EXHAUST FAN UNIT = MECHANICAL EXHAUST ROOF TOP UNIT. CONTRACTOR TO SAW-CUT EXISTING ROOF SLAB AND PROVIDE NEW BEAMS AS INDICATED ON PLANS. PROVIDE SUPPORT FRAMING AT EDGES AND OPENINGS SEE DETAIL 2/S-503 FOR MORE INFORMATION. GC TO COORDINATE EXACT SIZE, WEIGHT, AND LOCATIONS OF UNITS, AS WELL AS DISTRIBUTION OF LOAD WITHIN UNITS. ESTIMATED TOTAL WEIGHT OF UNIT IS PROVIDED ON PLAN.

GUY WIRE SUPPORT = PROVIDE GUY ANCHORAGE INTO EXISTING ROOF. SEE DETAIL 3/S-502. (8 REQUIRED, 4 EA. UNIT)

SAFETY BEAM = SAFETY BEAM FOR ELEVATOR REQUIRED BY OSHA 1926.502. CONTRACTOR TO PROVIDE AND INSTALL. GC TO VERIFY LOCATION AND ELEVATION OF SAFETY BEAM WITH ELEVATOR SUPPLIER. SEE DETAILS FOR SUPPORT OF SAFETY BEAM. IF ELEVATOR SUPPLIER REQUIRES SUPPORT OF ADDITIONAL HOIST BEAM AT TOP OF ELEVATOR, CONNECTION OF HOIST BEAM SIMILAR TO SAFETY BEAM.

ALL OVERFLOW DRAINS ON ROOF SHALL BE SET NO MORE THAN TWO INCHES ABOVE PRIMARY DRAINS. PROVIDE ADDITIONAL FRAMING WITH L4X4X1/4 ANGLES AS REQUIRED.

▶—— MOMENT CONNECTION, REF: SECTION 5/S-503 OR SECTION 6/S-503

DEMOLITION AND SHORING NOTES:

— — — — INDICATES LINE OF TEMPORARY SHORING TO BE INSTALLED PRIOR TO DEMOLITION.

PRIOR TO DEMOLITION OF ANY WALLS, ALL EXISTING CEILING SHALL BE DEMOLISHED AND REMOVED, AND A/E SHALL BE CONTACTED TO REVIEW EXISTING STRUCTURE AND VERIFY ASSUMPTIONS REGARDING FRAMING OF EXISTING STRUCTURE.

SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION OF ALL WALLS LOAD BEARING AND NON-LOAD BEARING. CONTRACTOR TO IDENTIFY THE WALLS INDICATED TO BE DEMOLISHED ON ARCHITECTURAL PLANS AS LOAD BEARING AND NON-LOAD BEARING. CONTACT A/E IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.

GENERAL CONTRACTOR IS RESPONSIBLE FOR TEMPORARY STABILITY OF EXISTING STRUCTURE UNTIL NEW CONSTRUCTION IS COMPLETE.

ALL TEMPORARY SHORING SHALL BE DESIGNED AND PROVIDED BY THE GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL INCLUDE COST OF ALL ENGINEERING REQUIRED FOR DESIGN OF SHORING IN BASE BID.

EXISTING BEAMLOCATIONS ARE TYPICALLY SCHEMATIC. GENERAL CONTRACTOR TO VERIFY EXACT JOIST LOCATIONS AS REQUIRED.

DO NOT DEMOLISH ANY EXISTING STRUCTURE UNLESS EXPLICITLY STATED ON ARCHITECTURAL DRAWINGS.

ALL DEMOLITION WORK SHALL BE PERFORMED IN A CAREFUL MANNER AS REQUIRED TO ENSURE NO DAMAGE OCCURS TO REMAINING STRUCTURE.

KEY PLAN

ROOF

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FRAMING PLAN - ROOF

FOX NESBIT

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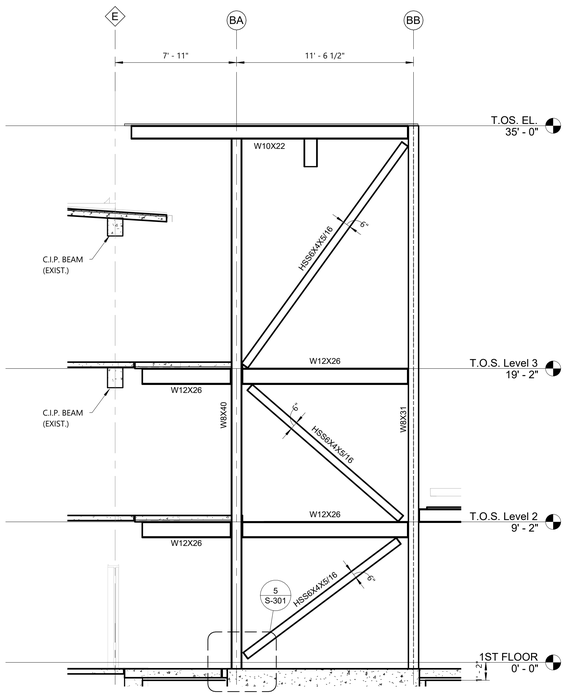
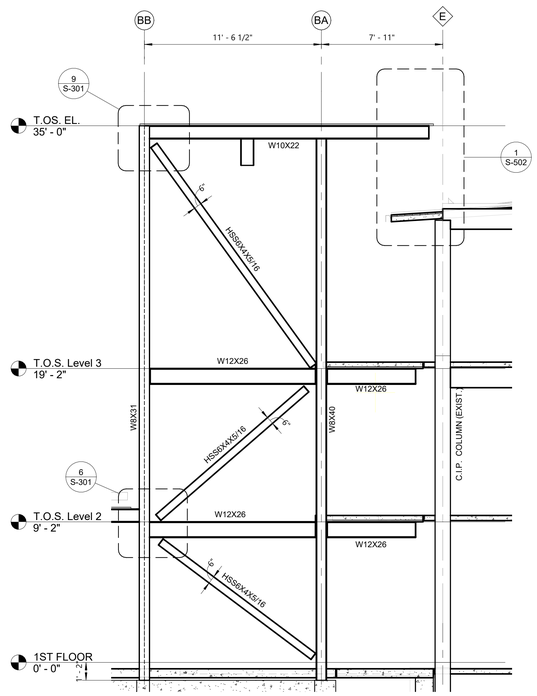
STATE OF LOUISIANA
GLEN A. LANDRY
REG. No. 30367
PROFESSIONAL ENGINEER
4/14/26

PROJECT NUMBER 2025.040
DRAWN BY GG
DATE APRIL 14, 2026
CHECKED BY GL
PHASE BID SET

S-203



1 ELEVATION FRA-1
1/4" = 1'-0"



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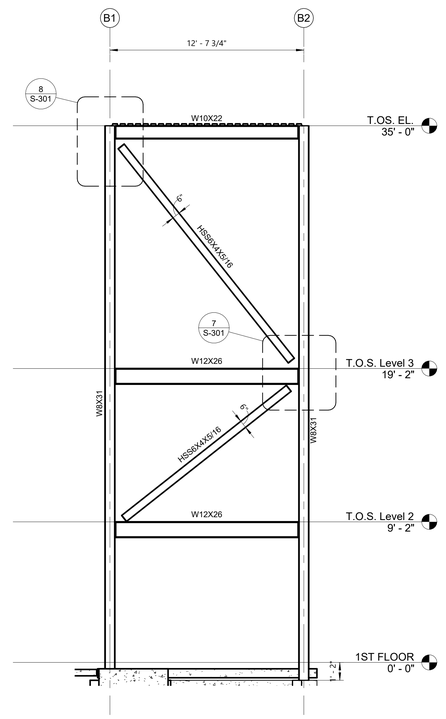

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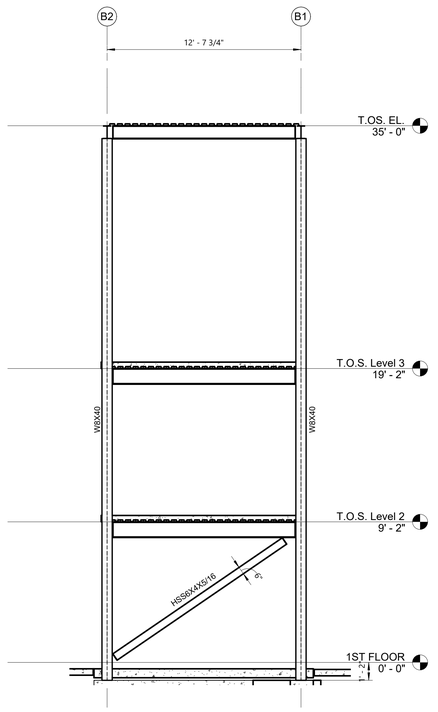
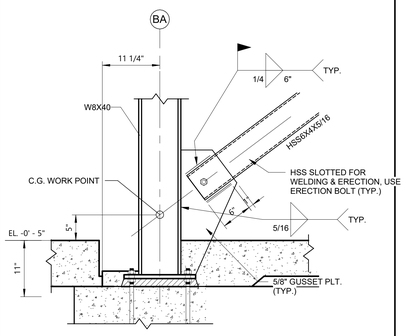


4 ELEVATION FRA-4
1/4" = 1'-0"



5 DETAIL
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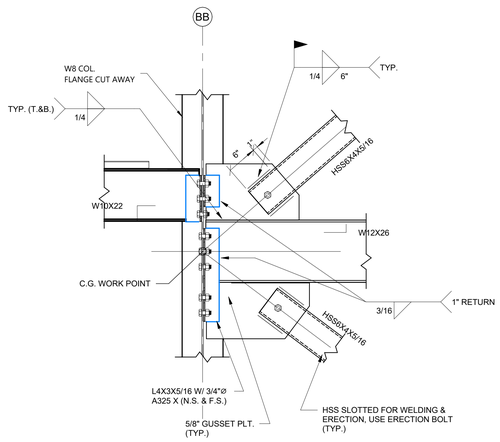

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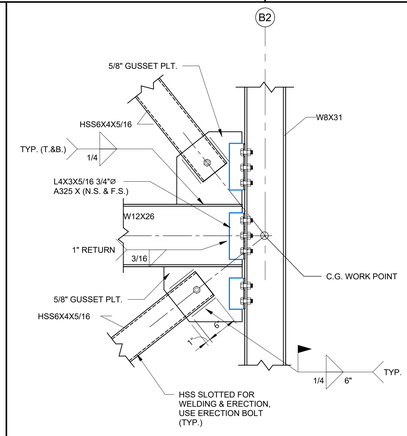
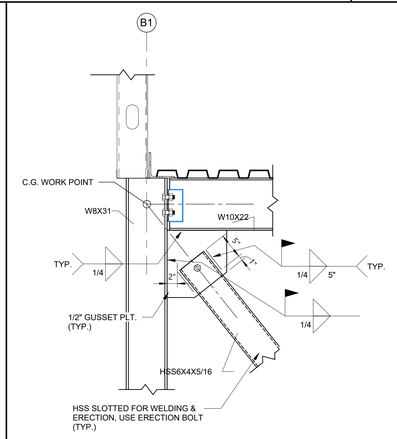


7 DETAIL
1" = 1'-0"



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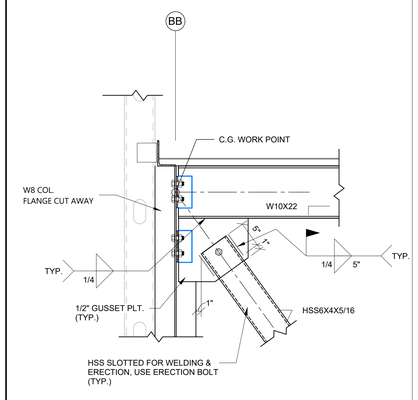

9 DETAIL
1" = 1'-0"

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NEW ORLEANS, LA 70118
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REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

BRACE FRAME ELEVATIONS & DETAILS

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BATON ROUGE
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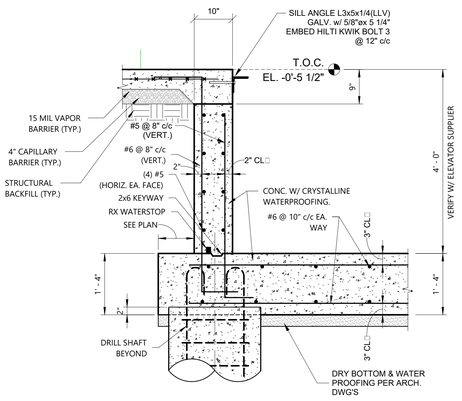
STATE OF LOUISIANA
ALEN A. LANDRY
REG. No. 36567
PROFESSIONAL ENGINEER
4/14/2026

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-301



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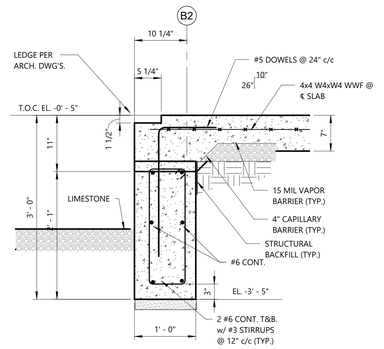

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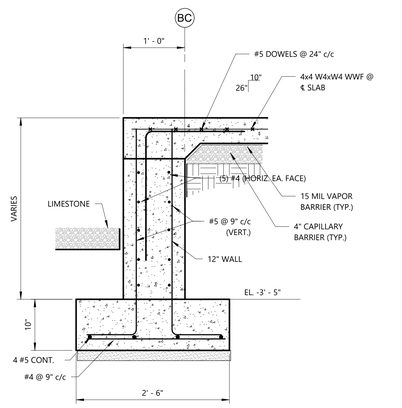
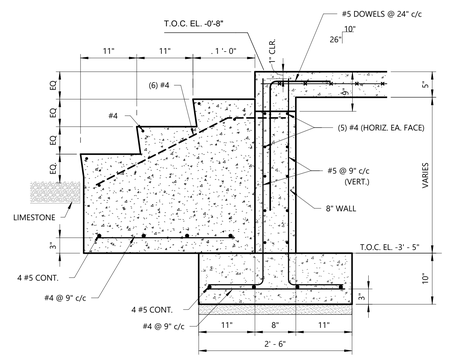


3 SECTION
1" = 1'-0"

NOTE: DOWEL #4 HORIZ. INTO GRADE BEAM



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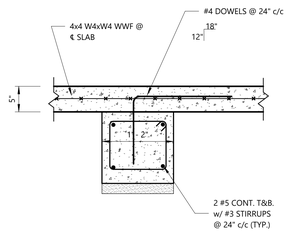

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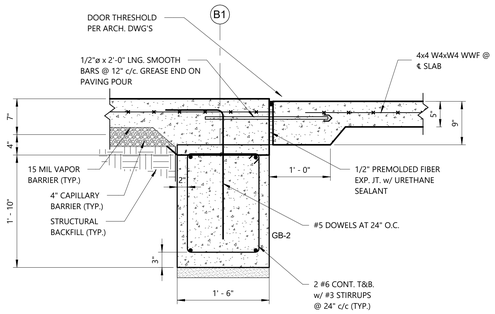

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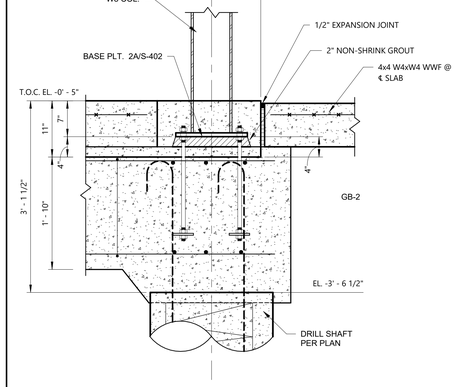

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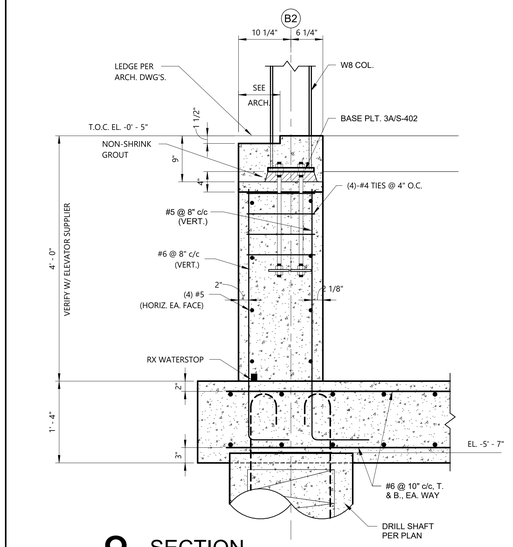

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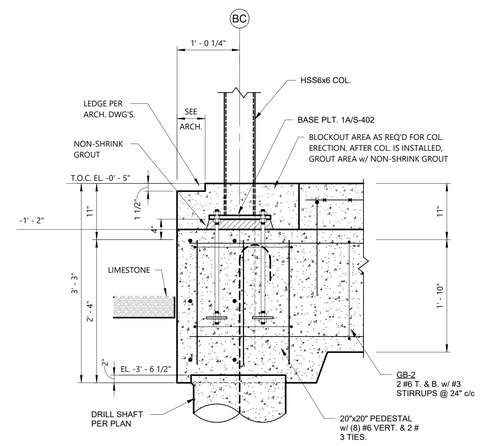
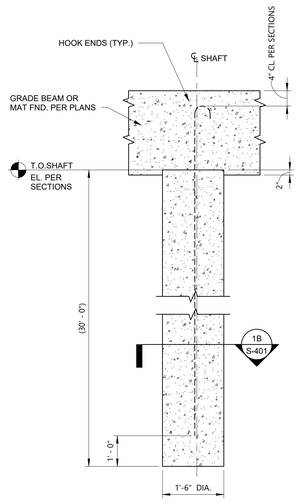
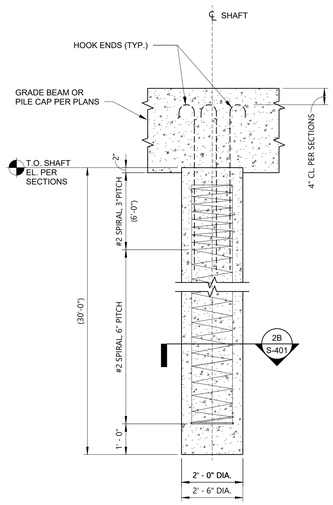


9 SECTION
1" = 1'-0"



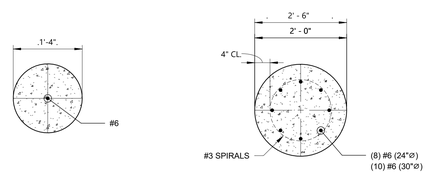
ULTIMATE CAPACITY
18"Ø x 30' = 50 KIPS

1A DRILL SHAFT DETAIL
1/2" = 1'-0"



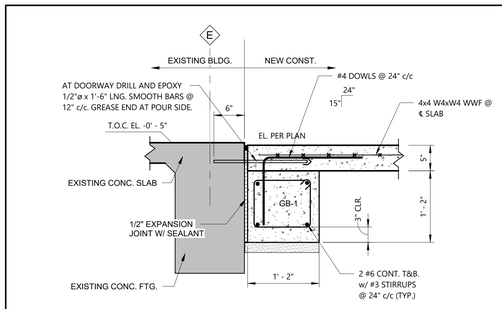
ULTIMATE CAPACITY
24"Ø x 30' = 62 KIPS
30"Ø x 30' = 72 KIPS

2A DRILL SHAFT DETAIL
1/2" = 1'-0"



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

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

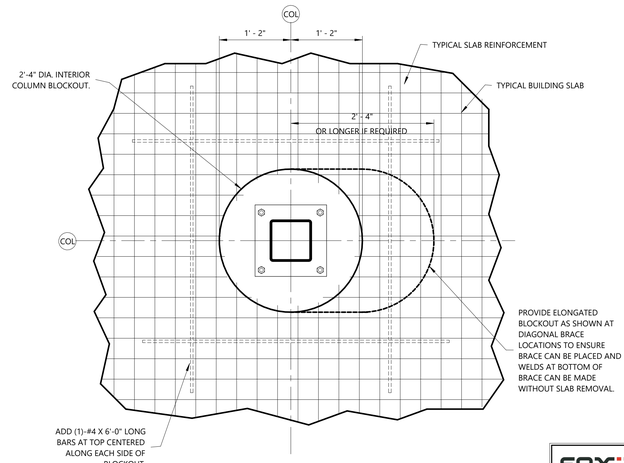


10 SECTION
1" = 1'-0"

COLUMN BLOCKOUTS IN SLAB:

CIRCULAR SLAB BLOCKOUTS MAY BE USED AT COLUMNS. SEE DETAIL BELOW FOR INTERIOR CASE. ALONG BUILDING EDGES, CIRCULAR BLOCKOUTS SHALL INTERSECT SLAB EDGES TO FORM 90 DEGREE CORNER IN ORDER TO AVOID POURING OF A FRAGILE CONCRETE SLIVER.

EDGE CASE CORNER CASE



11 Slab Blockout At Int. Column - WWF Reinf.
1" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FOUNDATION SECTIONS & DETAILS

FOX NESBIT
BATON ROUGE NEW ORLEANS
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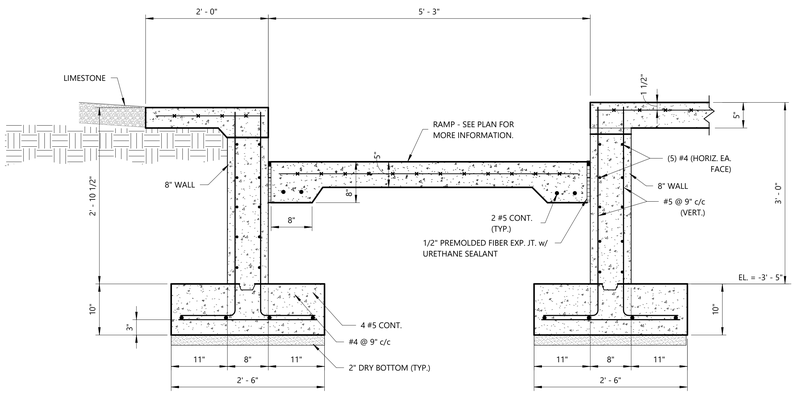
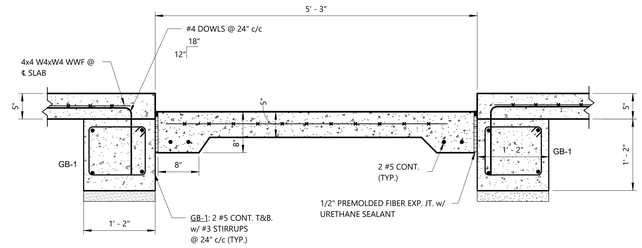
PROJECT NUMBER	2025.040
DRAWN BY	GG
DATE	APRIL 14, 2026
CHECKED BY	GL
PHASE	BID SET

STATE OF LOUISIANA
GLEN A. LANDRY
REG. No. 30369
4/14/26
ENGINEER

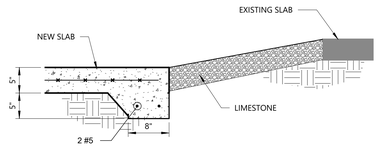
S-401



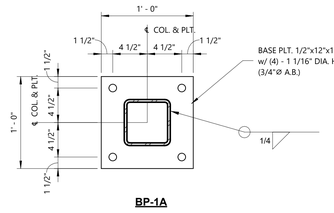
1 Section At Ramp
1" = 1'-0"



2 Section At Ramp
1" = 1'-0"

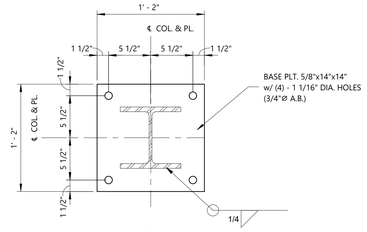


3 SECTION
1" = 1'-0"



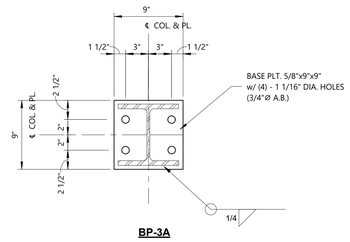
BP-1A

1A PLAN DETAIL- HSS6x6 BASE PLATE
1 1/2" = 1'-0" (RE: 4/S-402)



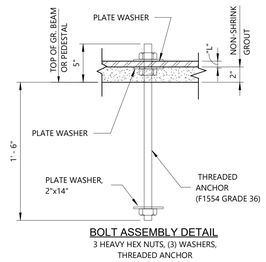
BP-2A

2A PLAN DETAIL- W8 BASE PLATE
1 1/2" = 1'-0" (RE: 4/S-402)



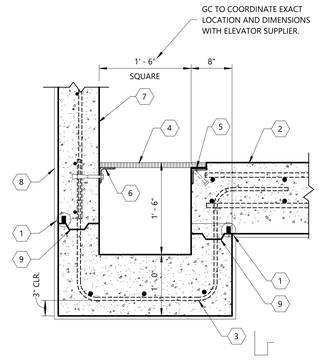
BP-3A

3A PLAN DETAIL- W8 BASE PLATE
1 1/2" = 1'-0" (RE: 4/S-402)



BOLT ASSEMBLY DETAIL
3 HEAVY HEX NUTS, (3) WASHERS, THREADED ANCHOR

4 Typical Anchor Bolt
1 1/2" = 1'-0"



5 Elevator Sump Pit Detail
1" = 1'-0"

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Keynote Legend

1 CONTINUOUS WATERSTOP.
2 12" THICK CONCRETE MAT FOOTING REINFORCED WITH #6 AT 12" O.C. EACH WAY TOP AND BOTTOM.
3 (3)-#5 BARS EACH WAY.
4 GALVANIZED STEEL HEAVY DUTY 38-W-4 GRATING. 1 1/2"x5/16" BARS AT 2 3/8" O.C. AND 3/8" CROSS BARS AT 4" O.C.
5 CONTINUOUS ANGLE 3x3x1/4 WITH 1/2" DIAMETER x 4" LONG HEADED STUDS AT 12" O.C. - (3) SIDES.
6 CONTINUOUS ANGLE 3x3x1/4 WITH 5/8" DIAMETER x 5" LONG EXPANSION BOLTS AT 12" O.C.
7 8" THICK CONCRETE WALL REINFORCED WITH #5 AT 12" O.C. EACH WAY. CENTER REINFORCEMENT IN WALL.
8 BENTONITE WATERPROOFING MEMBRANE AROUND WALLS. SUBMIT INFORMATION ON BENTONITE TO ARCHITECT FOR APPROVAL. PROVIDE LAPS AND TRANSITIONS PER MANUFACTURER'S RECOMMENDATIONS.
9 CONTINUOUS 2X4 METAL KEYWAY.

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FOUNDATION SECTIONS & DETAILS

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DRAWN BY GG
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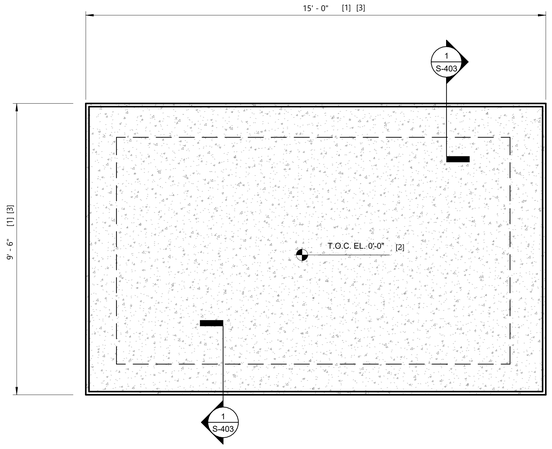
S-402

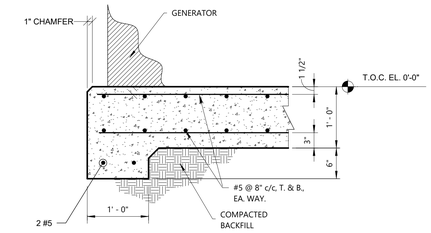


NOTES:
[1] MINIMUM DIMENSION: CONTRACTOR'S OPTION TO INCREASE TO ALLOW FOR GREATER CLEARANCE TO GENERATOR.
[2] SET ACCORDING TO SITE ELEVATIONS.
[3] VERIFY WITH ELECTRICAL DRAWINGS AND FINAL GENERATOR SELECTION.

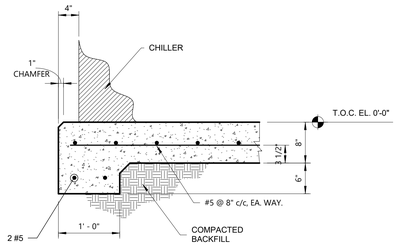
N

PLAN

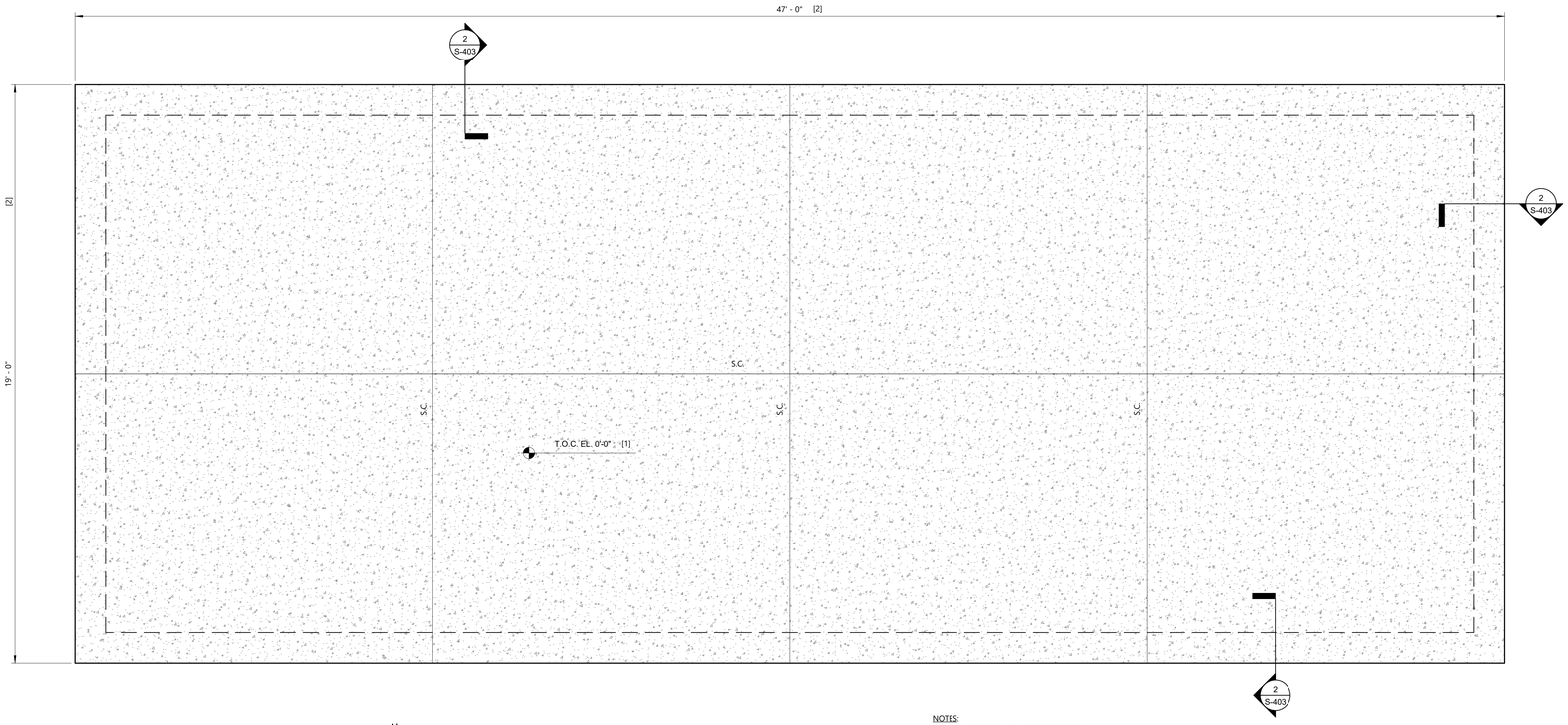
1A FOUNDATION PLAN - GENERATOR
1/2" = 1'-0"



1 SECTION
1" = 1'-0"



2 SECTION
1" = 1'-0"



N

PLAN

2A FOUNDATION - CHILLER
1/2" = 1'-0"

NOTES:
[1] SET ACCORDING TO SITE ELEVATIONS.
[2] VERIFY WITH MECHANICAL/ELECTRICAL DRAWINGS AND FINAL CHILLER SELECTION.

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REVISIONS

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THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
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70560

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FOUNDATION - GERNERATOR & CHILLER

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REG. No. 36367
PROFESSIONAL ENGINEER
4/14/26

PROJECT NUMBER	DRAWN BY
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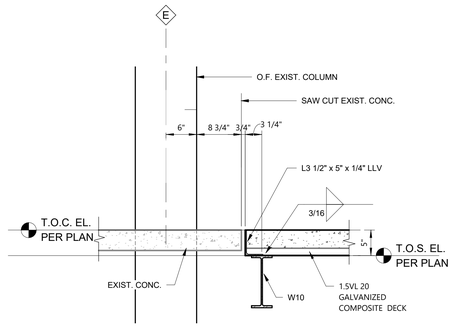
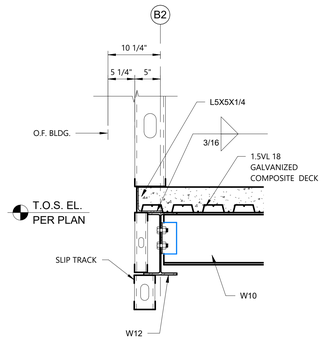
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-403



1 SECTION
1" = 1'-0"



2 SECTION
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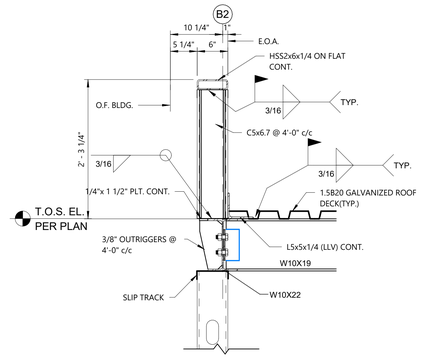
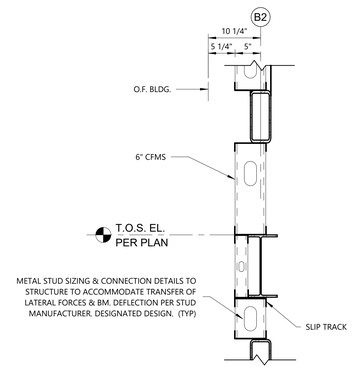
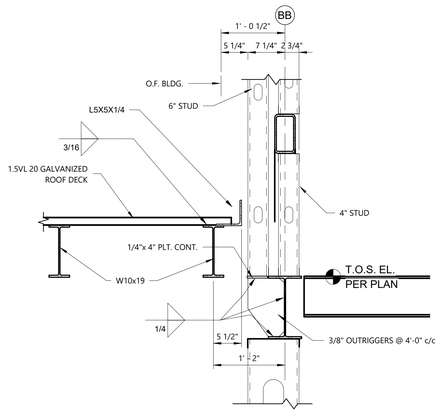


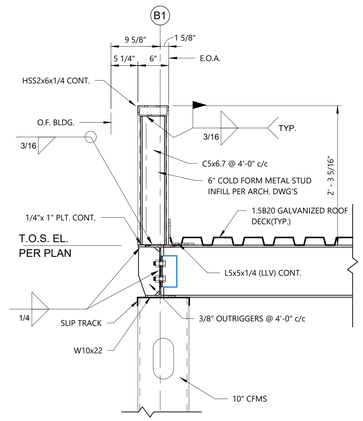
3 SECTION
1" = 1'-0"



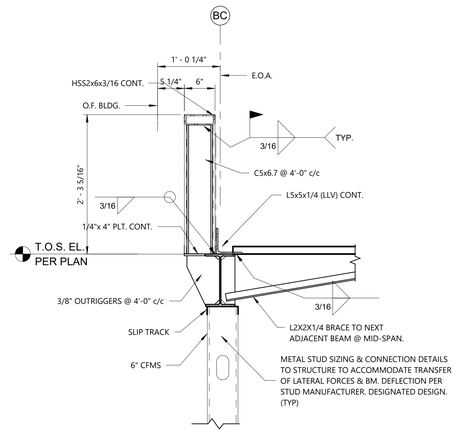
4 SECTION
1" = 1'-0"



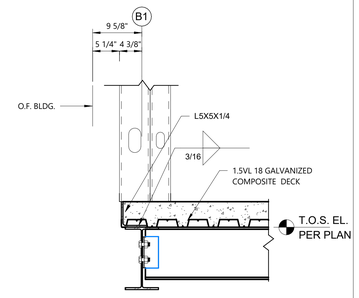
5 SECTION
1" = 1'-0"



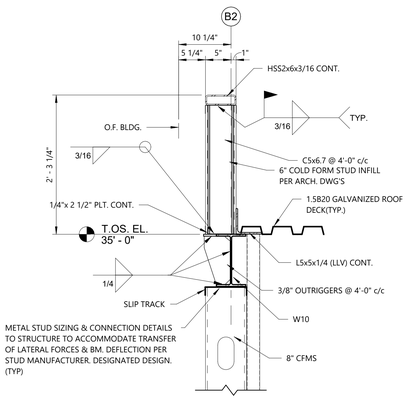
6 SECTION
1" = 1'-0"



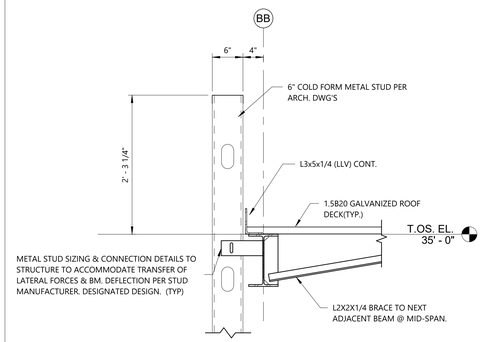
7 SECTION
1" = 1'-0"



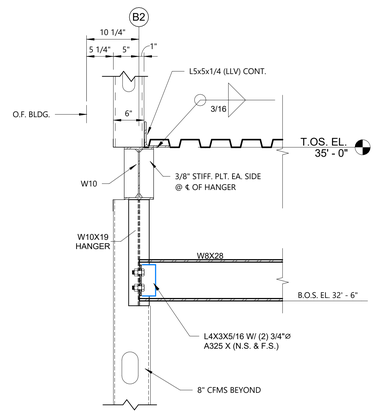
8 SECTION
1" = 1'-0"



9 SECTION
1" = 1'-0"



10 SECTION
1" = 1'-0"



11 SECTION
1" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FRAMING SECTIONS & DETAILS

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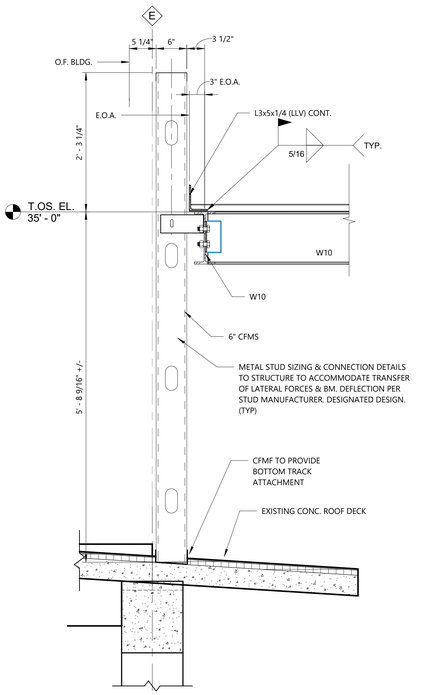
2026 26005 B360 R-24

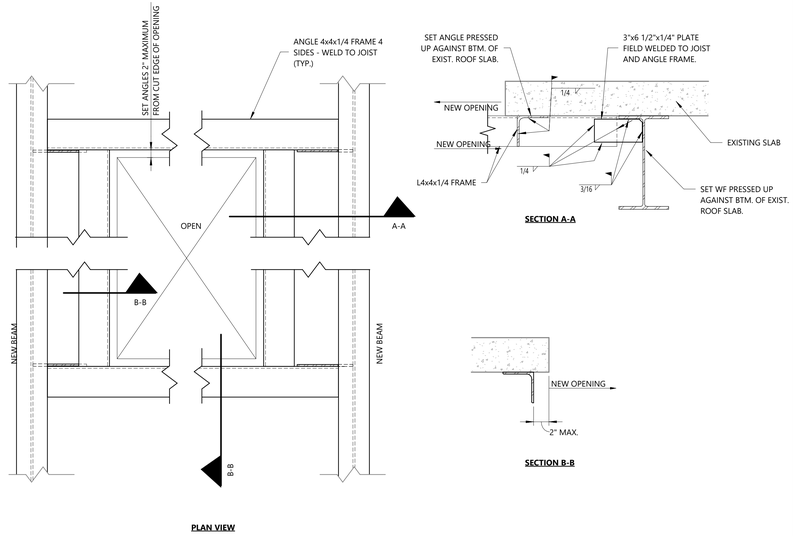
STATE OF LOUISIANA
GLEN A. LANDRY
REG. No. 36361
ENGINEER
4/14/2026

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-501



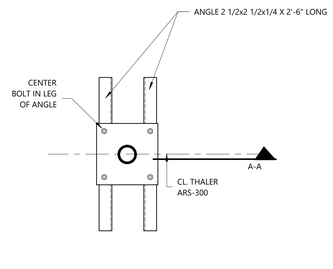
1 SECTION
1" = 1'-0"

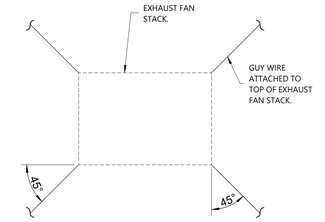


PLAN VIEW

RE: ARCH. & MECH. FOR SIZE AND LOCATION.

2 Typical Opening Detail At Existing Roof
1 1/2" = 1'-0"

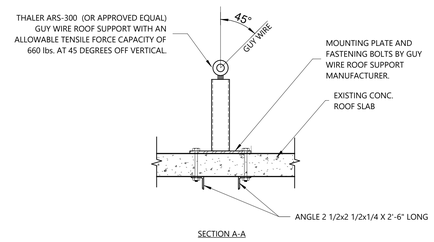




PLAN VIEW AT GUY WIRE TOP

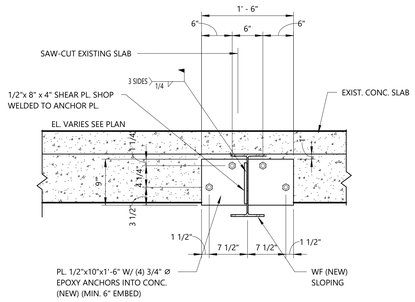
THIS DETAIL IS APPLICABLE AT ALL GUY WIRE SUPPORTS FOR ROOF TOP MECHANICAL EQUIPMENT SECURED WITH GUY WIRES. RE: MECH. FOR LOCATIONS REQUIRED.

A MINIMUM OF FOUR GUY WIRES SHALL BE PROVIDED AT ALL ROOFTOP MECHANICAL EQUIPMENT REQUIRING GUY WIRES, UNLESS NOTED OTHERWISE

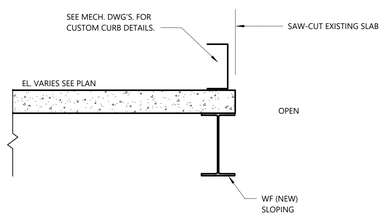


SECTION A-A

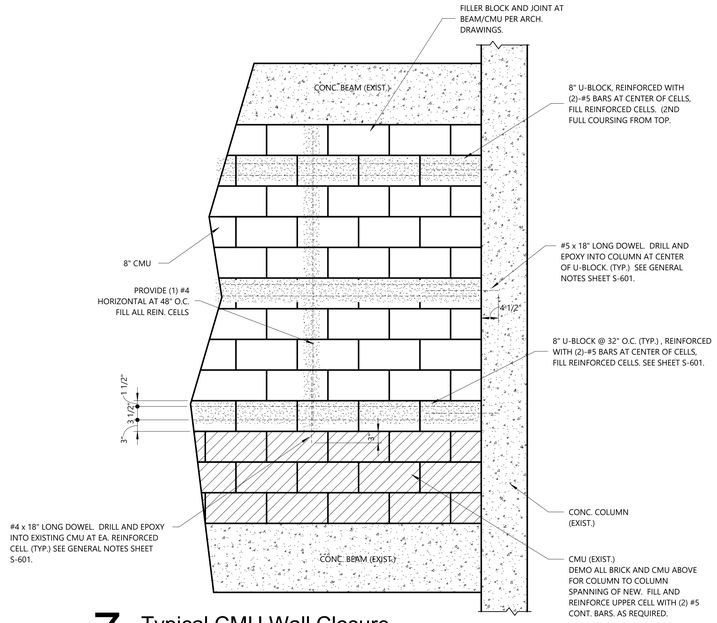
3 Framing At Guy Supports For New Exhaust Fan
1" = 1'-0"



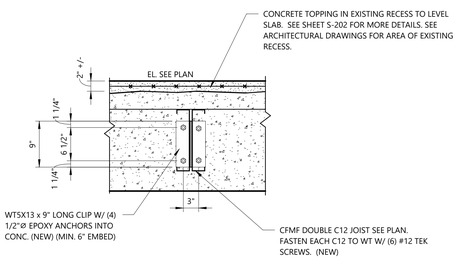
4 Typ. Beam Connx. @ Exist. Conc.
1" = 1'-0"



5 Typ. Roof Penetration @ Exhaust
1" = 1'-0"



7 Typical CMU Wall Closure
3/4" = 1'-0"



6 Typ. CFMF Metal Joists Connx. to Exist. Conc.
1" = 1'-0"

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REVISIONS

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THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FRAMING SECTIONS & DETAILS

FOX NESBIT
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PROJECT NUMBER 2025.040
DRAWN BY GG
DATE APRIL 14, 2026
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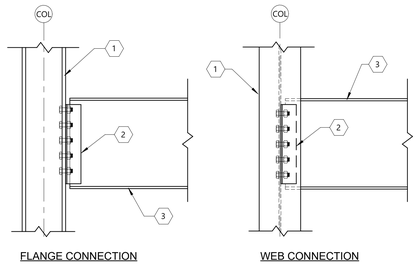
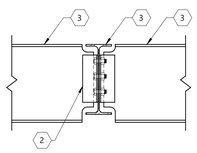
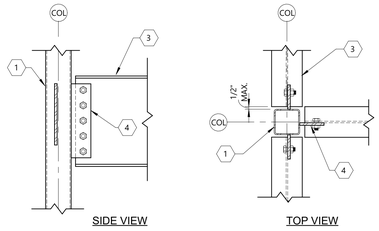
S-502



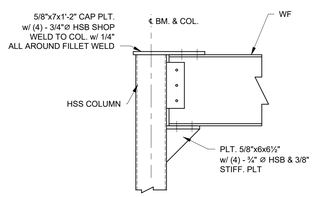
1 Beam To Wide Flange Column
1" = 1'-0"



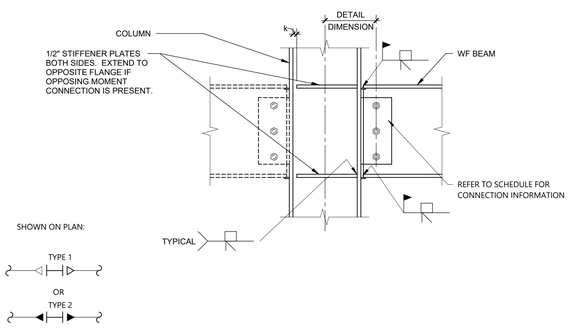
2 Typical Interior Beam To Beam
1" = 1'-0"



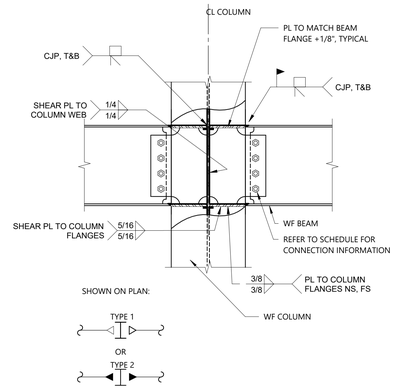
3 Beam To HSS Column
1" = 1'-0"



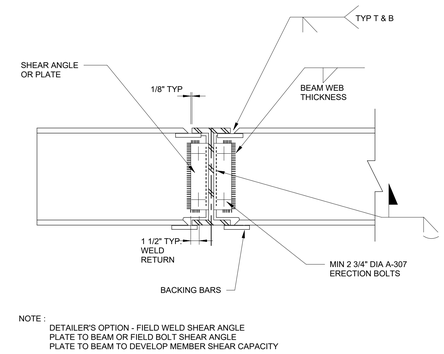
4 TYPICAL BEAM-TO-HSS COLUMN MOMENT CONNECTION
1" = 1'-0"



5 TYPICAL BEAM-TO-COLUMN FLANGE MOMENT CONNECTION (SAME BEAM DEPTH)
NO SCALE

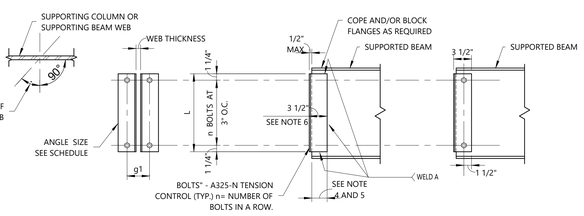


6 TYPICAL BEAM-TO COLUMN WEB MOMENT CONNECTION (SAME BEAM DEPTH)
1" = 1'-0"



NOTE :
DETAILER'S OPTION - FIELD WELD SHEAR ANGLE PLATE TO BEAM OR FIELD BOLT SHEAR ANGLE PLATE TO BEAM TO DEVELOP MEMBER SHEAR CAPACITY

7 TYPICAL BEAM-TO-BEAM MOMENT CONNECTION
1" = 1'-0"

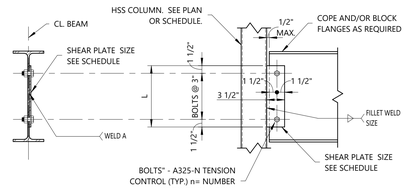


NOTES:

1. WHERE BEAMS AND GIRDERS FRAME INTO A W8 COLUMN OR THE WEB OF A W10 COLUMN, ANGLE SIZE 3x3 1/2xSAME THICKNESS SHALL BE USED AND g1 SHALL BE DECREASED BY 2" TYPICALLY.
2. FOR CHANNEL CONNECTIONS, USE ANGLE AND BOLTS FOR SIMILAR DEPTH BEAM SHOWN BELOW.
3. FOR ANGLES 0 DEGREES TO 5 DEGREES FROM PERPENDICULAR, ANGLES SHALL BE BENT.
4. FOR ANGLES 5 DEGREES TO 33.7 DEGREES FROM PERPENDICULAR, PROVIDE (2) BENT PLATES 3/8" X AS REQUIRED BY GEOMETRY (OPTION 1 SHALL BE USED WITH WELD A = 1/4").
5. FOR ANGLES 33.7 DEGREES TO 71.6 DEGREES FROM PERPENDICULAR, PROVIDE (1) BENT PLATE 3/8" X AS REQUIRED BY GEOMETRY (OPTION 1 SHALL BE USED WITH WELD A = 1/4"). AT W24's AND DEEPER PROVIDE 1/2" THICK BENT PLATE.
6. LEG SHALL BE ADJUSTED WHERE REQUIRED BY GEOMETRY.
7. AT ALL BEAM CONNECTIONS TO DIAGONAL BRACED FRAME COLUMNS IN WHICH BEAM IS PARALLEL TO THE DIAGONAL BRACED FRAME, THE CONNECTION ANGLE THICKNESS SHALL BE INCREASED TO 1/2" AND "WELD A" SHALL BE 1/4".
8. AT DOUBLE BEAM CONNECTIONS AT COLUMNS, INCREASE ANGLE LEG AND ADD BOLTS AS REQUIRED TO MEET OSHA STANDARDS.
9. FOR BEAM TO BEAM CONNECTIONS, PROVIDE CONNECTION PER THE SHALLOWER MEMBER AND COPE SUPPORTED BEAM AS REQUIRED.
10. CONNECTION TO WEB OF SUPPORTED BEAM MAY BE WELDED OR BOLTED, UNLESS NOTED OTHERWISE ABOVE.

BEAM SIZE	ANGLE SIZE	L (inches)	n	g1	WELD A	BOLTS
W8's & W10's	L4x3 1/2x5/16	5 1/2	2	5 1/2	1/4	3/4"
W12's	L4x3 1/2x5/16	8 1/2	3	5 1/2	1/4	3/4"
W14's	L4x3 1/2x5/16	8 1/2	3	5 1/2	1/4	3/4"
W16's	L4x3 1/2x5/16	11 1/2	4	5 1/2	1/4	3/4"
W18's	L4x3 1/2x5/16	14 1/2	5	5 1/2	1/4	3/4"

9 Typical Beam Connection Schedule And Detail
N.T.S.

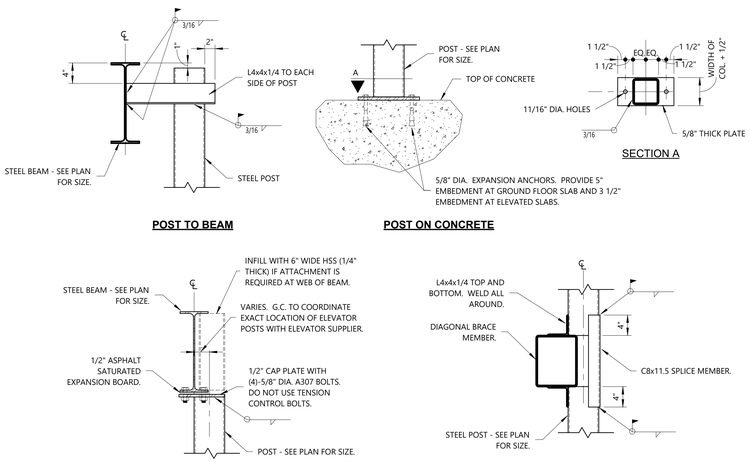


NOTES:

1. WHERE BEAM FRAMES INTO FLAT FACE OF HSS COLUMN ON A SKEW 10 DEGREES OR LESS FROM PERPENDICULAR, PLATE SHALL BE WELDED TO COLUMN WITH FILLET WELD AS INDICATED IN TABLE BELOW.
2. WHERE BEAM FRAMES INTO FLAT FACE OF HSS COLUMN ON A SKEW GREATER THAN 10 DEGREES FROM PERPENDICULAR, PLATE SHALL BE FULL PEN WELDED TO COLUMN.
3. FOR PLATES ATTACHING TO THE RADIUSED CORNER OF AN HSS COLUMN USE COMPLETE JOINT PENETRATION WELD.
4. SLOTTED BOLT HOLES SHALL NOT BE USED, UNLESS NOTED OTHERWISE, EXCEPT AT LOCATIONS APPROVED BY ENGINEER VIA THE RFI PROCESS.

BEAM SIZE	PLATE SIZE (inches)	L (inches)	n	WELD (TYP.) EA. SIDE (inches)	BOLTS (TYP.)
W8's	5/16	6	2	1/4	3/4"
W10's	5/16	6	2	1/4	3/4"
W12's	5/16	9	3	1/4	3/4"
W14's	5/16	9	3	1/4	3/4"

10 Typical Beam To HSS Column Connection Schedule And Detail
N.T.S.



NOTE: ELEVATOR STEEL DIMENSIONS

ELEVATOR SUPPLIER SHALL PROVIDE SUBMITTAL TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL INDICATING REQUIRED LOCATIONS OF ALL ELEVATOR POSTS RELATIVE TO GRIDLINES AT ELEVATOR SHAFT. SUBMITTAL SHALL ALSO INDICATE REQUIRED LOCATION OF HOIST BEAM RELATIVE TO GRIDLINES AT ELEVATOR SHAFT AND PLANNED ELEVATION OF HOIST BEAM ABOVE FINISHED FLOOR. ELEVATOR POSTS, HOIST BEAM, AND BEAMS WHICH SUPPORT ELEVATOR POSTS AND HOIST BEAMS SHALL NOT BE APPROVED FOR FABRICATION UNTIL THIS SUBMITTAL IS REVIEWED AND APPROVED.

8 Elevator Post Details
1" = 1'-0"

CHASE MARSHALL
A PROFESSIONAL ARCHITECTURAL CORPORATION
LAFAYETTE
1720 KALISTE SALOOM ROAD
SUITE B3 | LAFAYETTE, LA 70508
NEW ORLEANS
7222 SPRUCE STREET
NEW ORLEANS, LA 70118
| 337.326.4470 | CHASEMARSHALL.COM |

Keynote Legend

1. STEEL COLUMN - SEE PLAN FOR SIZE.
2. STANDARD DOUBLE ANGLE BEAM CONNECTION. RE: BEAM CONNECTION SCHEDULE AND DETAIL FOR INFORMATION.
3. STEEL BEAM - SEE PLAN FOR SIZE.
4. STANDARD SINGLE PLATE BEAM CONNECTION. RE: TYPICAL BEAM TO HSS COLUMN CONNECTION SCHEDULE AND DETAIL.

REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

FRAMING SECTIONS & DETAILS

FOX NESBIT
BATON ROUGE
RUSTON
LAFAYETTE
NEW ORLEANS
DESTIN
225.293.6595
www.fox-nesbit.com
© 2026 26005 B360 R-24

GLEN A. LANDRY
REG. No. 36361
STATE OF LOUISIANA
4/14/26

PROJECT NUMBER	DRAWN BY
2025.040	GG
DATE	CHECKED BY
APRIL 14, 2026	GL
PHASE	
BID SET	

S-503

GENERAL NOTES

A. APPLICABLE DESIGN CODES & MISCELLANEOUS

INTERNATIONAL BUILDING CODE 2021
AMERICAN CONCRETE INSTITUTE 318
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

IBC CHAPTER 17 SPECIAL INSPECTIONS:
THE OWNER OR THE OWNER'S REPRESENTATIVE IS REQUIRED TO PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF IBC 2021. THE GENERAL CONTRACTOR IS REQUIRED TO ENGAGE AND ACCOMMODATE THE REQUIRED SPECIAL INSPECTIONS BY PROVIDING ACCESS TO ELEMENTS REQUIRED FOR INSPECTION AND BY NOTIFYING THE TESTING AGENCY 48 HOURS PRIOR TO A REQUIRED INSPECTION EVENT. THE CONTRACTOR SHALL PROVIDE REPORTS FROM THE TESTING AGENCY INDICATING COMPLIANCE WITH THE IBC REQUIREMENTS FOR:

- STEEL CONSTRUCTION (IBC 1705.2)
- CONCRETE CONSTRUCTION (IBC 1705.3)
- MASONRY CONSTRUCTION (IBC 1705.4)
- SOILS (IBC 1705.6)
- DRILLED SHAFTS (IBC 1705.8)
- WIND RESISTANCE (IBC 1705.12) (IN APPLICABLE WIND SPEEDS ONLY)

STRUCTURAL OBSERVATIONS:
STRUCTURAL OBSERVATIONS SHALL BE CONDUCTED BY THE ENGINEER OF RECORD TO ASSURE GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THESE OBSERVATIONS WILL NOT TAKE THE PLACE OF THE CODE REQUIRED SPECIAL INSPECTIONS LISTED ABOVE OR ANY OTHER INSPECTIONS REQUIRED BY THE LOCAL BUILDING OFFICIAL. NOTIFY ENGINEER OF RECORD AND ARCHITECT FOR STRUCTURAL OBSERVATION VIA EMAIL A MINIMUM OF 72 HOURS PRIOR TO ANY OF THE FOLLOWING EVENTS:

- INSTALLATION OF DRILLED SHAFTS
- ALL CONCRETE/GROUT POURS
- COMMENCEMENT OF MASONRY WORK
- NEAR COMPLETION OF STRUCTURAL STEEL ERECTION.
- PLACEMENT OF INTERIOR SHEATHING OR INSULATION COVERING COLD-FORMED METAL FRAMING.
- PLACEMENT OF ROOFING COVERING ROOF DECK.

FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED WORK.

PROVIDE COMPREHENSIVE ELECTRONICALLY TRANSMITTED PHOTOS OF ANY REQUESTED WORK TO ENGINEER PRIOR TO ANY OF THE ABOVE EVENTS IN LIEU OF OBSERVATION IF DEEMED ACCEPTABLE BY ENGINEER.

B. DESIGN LOADS AND REQUIREMENTS SECTION

(1) FIRST FLOOR DESIGN LOADS
LIVE LOAD ------------------- 100 PSF (REDUCIBLE)
LIVE LOAD ------------------- 2000 LB (CONCENTRATED)
PARTITION LIVE LOAD ------ 15 PSF (NON-REDUCIBLE)

SECOND & THIRD FLOOR DESIGN LOADS
LIVE LOAD ------------------- 100 PSF (REDUCIBLE)
LIVE LOAD ------------------- 2000 LB (CONCENTRATED)
PARTITION LIVE LOAD------- 15 PSF (NON-REDUCIBLE)

(3) ROOF DESIGN LOADS
LIVE LOAD ------------------------20 PSF (REDUCIBLE)
LIVE LOAD --------------------300 LB (CONCENTRATED)
GROUND SNOW LOAD ---------- 0 PSF

(4) LATERAL DESIGN - WIND
ASCE 7-16
ULTIMATE DESIGN WIND SPEED (V_{ult})------- 144 MPH
NOMINAL DESIGN WIND SPEED (V_{asd})------- 115 MPH
EXPOSURE CATEGORY ------------------------ C
RISK CATEGORY ------------------------------- III
INTERNAL PRESSURE COEFFICIENT ----------- +/-0.18
MWFRS - DIRECTIONAL PROCEDURE

(5) LATERAL DESIGN -SEISMIC
ASCE 7-16
IMPORTANCE FACTOR --------------- 1.25
S_s -------------------------------------- 0.083g
S_1 -------------------------------------- 0.051g
SITE CLASS ---------------------------- D
S_{ds} ------------------------------------- 0.089g
S_{d1} ------------------------------------- 0.082g
SEISMIC DESIGN CATEGORY-------- B
C_s ------------------------------------- 0.0370
DESIGN BASE SHEAR ----------------- 0.0370*W
R -- 3
EQUIVALENT LATERAL-FORCE ANALYSIS METHOD.
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

C. GEOTECHNICAL
THE FOUNDATION AND SLAB DESIGN WAS BASED ON THE GEOTECHNICAL INVESTIGATION BY SITE ENGINEERING, INC. "GEOTECHNICAL ENGINEERING SERVICES REPORT, PROPOSED NEW ELEVATOR FOR BUILDING 29", ULL NEW IBERIA RESEARCH CENTER. SITE ENGINEERING PROJECT 23-G075-01. DATED 11/9/2024. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT PRIOR TO BIDDING. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE AT THE ARCHITECT'S OFFICE FOR REVIEW.

comment #18

NET ALLOWABLE SOIL BEARING PRESSURE
CONTINUOUS FOOTINGS ------------------- 1,000 PSF
CONTINUOUS MATT FOUNDATIONS----------- 1,000 PSF

TESTING AGENCY SHALL INSPECT FOUNDATION SUBGRADE FOR ADEQUACY TO ACHIEVE THE DESIGN BEARING CAPACITY PRIOR TO DRY BOTTOM/FOOTING PLACEMENT. NO PRECIPITATION EVENT SHALL OCCUR IN TIME BETWEEN SUBGRADE APPROVAL AND DRY BOTTOM/FOOTING PLACEMENT.

D. CONCRETE REINFORCEMENT

ALL REINFORCING BARS SHALL BE GRADE 60 (FY = 60,000 PSI MIN.)

VAPOR RETARDER AT GROUND FLOOR SLABS TO BE 15 MIL. WITH TAPED JOINTS. REFERENCE SPECIFICATIONS FOR CAST-IN-PLACE CONCRETE FOR ADDITIONAL INFORMATION.

HOOK ALL GRADE BEAM TOP BARS AT THE END OF THE GRADE BEAM.

PROVIDE (2)-#6 L BARS (a=36",b=36") ONE TOP AND ONE BOTTOM AT THE OUTSIDE FACE OF ALL GRADE BEAM CORNERS.

PROVIDE (4)-#6 L BARS (a=36",b=36") TWO TOP AND TWO BOTTOM AT ALL GRADE BEAM INTERSECTIONS.

PROVIDE #5 L BARS (a=18",b=18") AT CORNER OF ELEVATOR PIT WALLS. SPACE BARS WITH ALL HORIZONTAL WALL REINFORCEMENT.

PROVIDE HORIZONTAL #4 (a=24", b=24") CORNER BARS AT ALL CONCRETE WALL CORNERS TO LAP WITH WALL REINFORCING BARS, U.N.O.

ALL WELDED WIRE MESH SHALL HAVE 12" MIN. LAP BETWEEN SHEETS.

PLACE AND SECURE ALL EMBEDDED ITEMS INCLUDING REINFORCING DOWELS, ANCHOR BOLTS, FORM SAVER DOWELS AND EMBED PLATES PRIOR TO PLACING OF CONCRETE. DO NOT WET STICK ANY OF THESE ITEMS. UNLESS NOTED OTHERWISE HEREIN OR PERMITTED BY ENGINEER OF RECORD IN WRITING. THIS DOES NOT APPLY TO SINGLE-BAR REINFORCEMENT IN DRILLED SHAFTS.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 200 POUNDS OF UNSCHEDULED ASTM A615 GRADE 60 REBAR FOR MISCELLANEOUS USE TO BE FABRICATED, DELIVERED, PLACED, AND TIED AS DIRECTED BY STRUCTURAL ENGINEER.

E. CONCRETE AND GROUT

CONCRETE MIXING, HANDLING, PLACING, AND CURING SHALL BE IN ACCORDANCE WITH ACI 301.

SEE THE "CONCRETE MIX REQUIREMENTS" TABLE FOR DESCRIPTIONS AND REQUIREMENTS OF CONCRETE TYPES.

FLY ASH IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

SLAG IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

ALL GROUT SHALL BE NON-SHRINK GROUT. THERE SHALL BE 2" NON-SHRINK GROUT BENEATH ALL COLUMN BASE PLATES.

ALL FLOOR DRAINS, DROPS, CURBS, ETC. SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

SEE PLUMBING DRAWINGS FOR LOCATIONS OF ALL FLOOR DRAINS. SLOPE GROUND FLOOR SLAB AND ELEVATED SLABS AT ALL FLOOR DRAINS AWAY FROM WALLS IN ROOM TO LOW POINT AT FLOOR DRAIN WHICH SHALL BE SET 1/2" BELOW FINISHED FLOOR OF SLAB, UNLESS NOTED OTHERWISE.

ALL GRADE BEAMS, AND OTHER CONCRETE FOUNDATION EDGES SHALL BE FULLY PLYWOOD FORMED.

THE TOP 5" OF BOTH SIDES OF ALL GRADE BEAMS SHALL BE WOOD FORMED. ALL SPREAD FOOTINGS SHALL BE EARTH FORMED - UNLESS NOTED OTHERWISE.

ALL EXPOSED SURFACES OF CONCRETE WALLS, FOUNDATION EDGES, AND SLAB EDGES SHALL BE PLYWOOD FORMED AND COATED WITH A REPAIR MORTAR.

RANDOM TRAFFIC FLOOR FINISH TOLERANCES (F_F AND F_L) FOR SLABS ARE TO MEET SPECIFIED OVERALL FLATNESS OF SOF_F = 35 AND SPECIFIED OVERALL LEVELNESS OF SOF_L = 25 WITH MINIMUM LOCAL VALUES OF MLF_F = 21 AND MLF_L = 15, AS EXPRESSED IN ACI 117, SECTION 4, AND MEASURED WITHIN 72 HOURS IN ACCORDANCE WITH ASTM E 115.

COORDINATE ALL DEVIATIONS IN FLATNESS/LEVELNESS WITH ARCHITECT TO COMPLY WITH AESTHETIC AND FLOOR FINISH REQUIREMENTS.

ALL INTERIOR SAWED JOINTS TO BE 1/8" WIDE X 1/3 OF DEPTH OF SLAB. FILL WITH EUCLID EUCO 700 SEMI-RIGID EPOXY JOINT FILLER OF APPROVED EQUAL COMPLIANT TO ACI 302 RECOMMENDATIONS REGARDING CONTROL AND CONSTRUCTION JOINTS.

ALL EXTERIOR SAWED JOINTS TO BE 1/8" WIDE X 1/3 OF DEPTH OF SLAB. FILL WITH EUCLID EUCOLASTIC 1 ONE PART URETHANE JOINT FILLER OR APPROVED EQUAL COMPLIANT TO ASTM C920 GRADE P, CLASS 25.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 10 CUBIC YARDS OF UNSCHEDULED 4000 PSI STRUCTURAL FOUNDATION/SLAB CONCRETE FOR MISCELLANEOUS USE TO BE DELIVERED, PLACED, FORMED, AND FINISHED AS DIRECTED BY STRUCTURAL ENGINEER.

VERIFY ALL SLAB EDGE DIMENSIONS AT DOORS AND FULL-HEIGHT WINDOWS WITH ARCHITECTURAL DRAWINGS PRIOR TO SETTING OF GROUND FLOOR SLAB EDGE FORMS. AT LOCATIONS WHERE SLAB EDGE EXTENDS PAST OUTSIDE EDGE OF DOOR OR FULL-HEIGHT WINDOW, SLOPE SLAB DOWN 1/4" FROM OUTSIDE FACE OF DOOR WINDOW TO SLAB EDGE, UNLESS NOTED OTHERWISE.

MINOR SURFACE CRACKING IS AN INHERENT CHARACTERISTIC OF CONCRETE AND DOES NOT AFFECT THE STRUCTURAL INTEGRITY OR SERVICEABILITY OF THE STRUCTURE. THE OCCURRENCE OF HAIRLINE OR MINOR CRACKS DUE TO SHRINKAGE, TEMPERATURE CHANGES, SERVICE STRESSES, OR OTHER FACTORS IS EXPECTED AND SHALL NOT BE CONSIDERED A DEFECT. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR MINOR OR HAIRLINE CRACKS THAT DO NOT COMPROMISE THE STRUCTURE 'S SAFETY OR FUNCTION, PROVIDED THE CONCRETE IS PLACED AND CURED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND INDUSTRY STANDARDS.

F. POST-INSTALLED ANCHORS

IF SPECIFIC POST-INSTALLED ANCHOR IS NOT INDICATED ON DRAWINGS, THEN THE FOLLOWING POST-INSTALLED ANCHORS OR ADHESIVE SHALL BE USED FOR THIS PROJECT UNLESS EQUAL SUBSTITUTIONS ARE SUBMITTED AND APPROVED.

EXPANSION ANCHORS
- STRONG BOLT 2 BY SIMPSON STRONG TIE
- KWIK BOLT-TZ BY HILTI
- DEWALT STUD SD1

CONCRETE OR MASONRY SCREWS
- TITEN TURBO BY SIMPSON STRONG TIE
- DEWALT ULTRACON+
- KWIK-CON II BY HILTI

EPOXY ADHESIVE
- SET-3G BY SIMPSON STRONG TIE
- HIT-RE 500v3 BY HILTI
- DEWALT PURE 220+

HEAVY DUTY SCREW ANCHORS
- TITEN HD BY SIMPSON STRONG-TIE
- KH-EZ BY HILTI
- DEWALT SCREW BOLT+

ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED WITH STRICT ADHERENCE TO THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

FOR ALL POST INSTALLED ANCHOR APPLICATIONS, HOLES SHALL BE DRILLED WITH A HAMMER DRILL, U.N.O.

ALL DRILLED HOLES FOR ADHESIVE ANCHORS SHALL BE BRUSHED AND BLOWN CLEAN WITH COMPRESSED AIR AS SPECIFIED BY THE MANUFACTURER.

ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, U.N.O.

DO NOT INSTALL POST-INSTALLED ANCHORS INTO NEW CONCRETE UNTIL DESIGN 28-DAY COMPRESSIVE STRENGTH HAS BEEN ACHIEVED AND IN NO CASE LESS THAN 7 DAYS.

ALL POST-INSTALLED ANCHORS AND ACCESSORIES EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED (OR HAVE APPROVED EQUAL CORROSION RESISTANCE).

G. STRUCTURAL STEEL

STRUCTURAL STEEL MEMBERS SHALL BE MADE USING THE FOLLOWING GRADES:

WIDE FLANGE SHAPES ------------- ASTM A992
CHANNELS -------------------------- ASTM A992
HSS --------------------------------- ASTM A500, GRADE C
PIPES -------------------------------- ASTM A53, GRADE B
PLATE & BARS --------------------- ASTM A36 OR ASTM 572, GRADE 50
ANGLES ----------------------------- ASTM A572, GRADE 50

ALL STRUCTURAL STEEL SHALL BE FABRICATED, COATED, AND ERECTED AS PER THE AISC SPECIFICATIONS.

ALL WELDS SHALL BE WITH E70XX ELECTRODES AND IN ACCORDANCE WITH AWS STANDARDS. MINIMUM FILLET WELD SIZE SHALL BE 1/4" - U.N.O. FOULING ELEMENTS SUCH AS PAINT, OIL, GREASE, OR OTHER CONTAMINANTS SHALL BE REMOVED AT ALL WELDED CONNECTIONS PRIOR TO WELDING.

ALL FRAMING CONNECTIONS SHALL BE MADE WITH THE MAXIMUM NUMBER OF ROWS OF 3/4" A325-N TENSION CONTROL BOLTS FOR GIVEN BEAM DEPTH. - U.N.O.

ALL TUBULAR STEEL COLUMNS SHALL HAVE 1/2" CAP PLATES - U.N.O.

PROVIDE CONTINUOUS 5/16" THICK BENT PLATE OR ANGLE AROUND PERIMETER OF ALL FLOOR EDGES INCLUDING STAIRS, ELEVATORS, MECH. PENETRATIONS, ETC.

THE CONTRACTOR SHALL ASSURE THAT THE STRUCTURE HAS BEEN ERECTED TRUE AND SUITABLE TEMPORARY BRACING AND GUYS SHALL BE INSTALLED TO MAINTAIN SAID TRUENESS. THE STRUCTURAL STEEL FRAMEWORK SHALL BE BRACED OR GUYED UNTIL FINAL ERECTION IS COMPLETE AND DECKING AND PERMANENT BRACES HAVE BEEN ERECTED.

THE STEEL FABRICATOR SHALL PROVIDE AN ALLOWANCE IN HIS BASE BID FOR A TOTAL OF 1/2 TON OF ADDITIONAL ERECTED MISCELLANEOUS STEEL AS DEEMED NECESSARY BY STRUCTURAL ENGINEER. THIS ALLOWANCE SHALL COVER ALL DETAILING, FABRICATION, MATERIALS, PAINTING, DELIVERY, ERECTION, COATINGS, AND OTHER ASSOCIATED COSTS. THE EXACT SIZE AND QUANTITY OF STEEL MATERIAL SHALL BE SELECTED BY THE STRUCTURAL ENGINEER AS REQUIRED. DEDUCTIONS FROM STEEL ALLOWANCE SHALL BE MADE IN TERMS OF WEIGHT OF MATERIAL ADDED. ANY UNUSED PORTIONS OF THIS ALLOWANCE SHALL BE CREDITED BACK TO THE OWNER AT THE RATE OF $8,000.00 PER TON.

CONTRACTOR TO PROVIDE GALVANIZED STEEL LINTELS AS REQUIRED TO SUPPORT BRICK AND/OR MASONRY VENEER ABOVE ALL OPENINGS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE (UNLESS NOTED OTHERWISE):

CLEAR OPENING	ANGLE SIZE
0 TO 4'	L4x4x1/4
4' TO 9'	L6x4x3/8 LLV
9' TO 12'	L7x4x3/8 LLV

LINTEL ANGLES SUPPORTING BRICK AND/OR MASONRY VENEER SHALL HAVE A MINIMUM BEARING SUPPORT LENGTH OF 8".

ANY STEEL NOT SHOWN ON DRAWINGS THAT IS REQUIRED FOR ELEVATORS SHALL BE PROVIDED BY THE CONTRACTOR.

ALL STRUCTURAL STEEL INDICATED ON PLANS AS GALVANIZED (OR GALV.) SHALL BE HOT-DIP GALVANIZED PER THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. TOUCH UP ALL BREAKS IN GALVANIZE WITH A ZINC RICH COLD GALVANIZE COMPOUND PER 051200 SPECIFICATIONS.

H. METAL DECKING

ALL METAL DECK SHALL BE FABRICATED AND ERECTED AS PER THE STEEL DECK INSTITUTE'S STANDARDS AND THE MANUFACTURER'S SPECIFICATIONS.

SEE THE "METAL DECKING REQUIREMENTS" TABLE FOR DESCRIPTION OF METAL DECKING.

PUDDLE WELDS (IF SPECIFIED) THAT BURN THROUGH DECKING ARE NOT ACCEPTABLE, AND SHALL BE REPAIRED.

ALL FLOOR AND ROOF OPENINGS AND OTHER SUCH REQUIREMENTS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.AT ALL ROOF DECK RIDGES, VALLEYS, OR DECK DIRECTION CHANGES, PROVIDE CONTINUOUS 20 GAGE X 9" WIDE PLATE (WITH 4-1/2" LONG LEGS AT RIDGES AND VALLEYS). FASTEN EACH SIDE OF PLATE TO EACH DECK WITH #12 TEK SCREWS AT 6" O.C.

AT ALL ROOF DECK RIDGES, VALLEYS, OR DECK DIRECTION CHANGES, PROVIDE CONTINUOUS 20 GAGE X 9" WIDE PLATE (WITH 4-1/2" LONG LEGS AT RIDGES AND VALLEYS). FASTEN EACH SIDE OF PLATE TO EACH DECK WITH #12 TEK SCREWS AT 6" O.C.

I. COLD-FORMED METAL FRAMING

COLD-FORMED METAL FRAMING IS A DELEGATED DESIGN. SEE SPECIFICATION 05 4000 FOR MORE INFORMATION. THE NOTES BELOW ONLY APPLY TO ELEMENTS WITHIN THE SCOPE INDICATED BY SPECIFICATION 05 4000.

COLD-FORMED METAL FRAMING MEMBER SIZING DESIGNATIONS ARE PER THE NOMENCLATURE ESTABLISHED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). SEE THE FOLLOWING EXAMPLE:

800S200-43

800 = MEMBER DEPTH TO TWO DECIMAL PLACES = 8.00"
S = MEMBER TYPE, STUD OR JOIST
200 = FLANGE WIDTH TO TWO DECIMAL PLACES = 2.00"
43 = MINIMUM DESIGN THICKNESS OF THE METAL IN MILS

ALL COLD-FORMED METAL FRAMING MEMBERS SHALL HAVE MINIMUM THICKNESS OF 43 MILS, U.N.O.

PROVIDE CONTINUOUS 12 GAGE BENT PLATE (2"x2" MIN. U.N.O.) AROUND PERIMETER OF ROOF FORMED BY PRE-ENGINEERED ROOF TRUSSES AND COLD-FORMED METAL FRAMING ROOF JOISTS INCLUDING MECH. PENETRATIONS, ROOF EDGES, ETC.

PROVIDE BRIDGING AND END BLOCKING FOR ALL JOIST SPANS. SIZE AND SPACING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL CONDUIT AND OTHER PENETRATIONS IN WALL STUDS SHALL BE MADE THRU THE TYPICAL OVAL PUNCHOUT IN THE STUD. IF LARGER OPENINGS ARE REQUIRED, THE GENERAL CONTRACTOR SHALL COORDINATE BETWEEN MECHANICAL/ELECTRICAL SUBCONTRACTORS AND THE COLD-FORMED METAL FRAMING ENGINEER TO ENSURE THAT THE OPENINGS ARE PROPERLY CONSIDERED IN DESIGN.

COLD-FORMED METAL FRAMING SUPPLIER SHALL DESIGN AND PROVIDE STUD FRAMING AS REQUIRED TO SUPPORT PRE-MANUFACTURED ALUMINUM CANOPIES AT EXTERIOR. GENERAL CONTRACTOR TO COORDINATE WITH CANOPY SUPPLIER TO PROVIDE LOADING AND ASSURE PROPER CONNECTIVITY. CONNECTION OF CANOPIES TO COLD-FORMED METAL FRAMING SHALL BE SHOWN ON BOTH ALUMINUM CANOPY SHOP DRAWINGS AND COLD-FORMED METAL FRAMING SHOP DRAWINGS.

NO SPLICES IN STUDS, JOISTS, BEAMS, HEADERS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH REVISION TO THE ORIGINAL DESIGN.

ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS. STUD ENDS MUST SEAT TIGHTLY INTO TRACKS IN ALL BEARING APPLICATIONS.

J. NOTICE

THE USE OF REPRODUCTION OF THESE CONTRACT DRAWINGS BY THE CONTRACTOR, SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARED SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY BE PRESENT HEREON.

IN THE EVENT OF CONFLICTING OR DIFFERING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS THAT HAVE NOT BEEN CLARIFIED OR CHANGED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY, GREATER QUANTITY, OR MORE STRINGENT UNLESS DIRECTED OTHERWISE BY ARCHITECT/ENGINEER.

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, EXCEPT WHERE SPECIFIC REQUIREMENTS ARE PROVIDED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES OF CONSTRUCTION.

K. RENOVATIONS

EXISTING CONDITIONS:
ALL DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE EXACT. ALL SUCH DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE PREPARATION OF SHOP DRAWINGS. FIRST SUBMITTAL OF SHOP DRAWINGS MUST CONTAIN CORRECT CONDITIONS AND DIMENSIONS OBTAINED FROM THE FIELD. IF CONDITIONS AND DIMENSIONS VARY GREATLY FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PREPARATION OF SHOP DRAWINGS.

SLAB-ON-GRADE FIELD VERIFICATION:
NO EXISTING DRAWINGS WERE FURNISHED FOR THIS PROJECT. THUS, THE ENGINEER HAS NO KNOWLEDGE OF THE EXISTING SLAB DESIGN. THESE DRAWINGS ARE BASED ON THE ASSUMPTION THAT THE EXISTING GROUND FLOOR SLAB WAS DESIGNED AS A CONVENTIONALLY REINFORCED SOIL-SUPPORTED SLAB-ON-GRADE. BY USING THESE DRAWINGS THE OWNER AND GENERAL CONTRACTOR HOLD HARMLESS THE ENGINEER FROM ALL LIABILITY AND DAMAGES ARISING WITHOUT VERIFICATION OF THIS ASSUMPTION.

SHORING:
SHORE AND BRACE ALL EXISTING FRAMING AS REQUIRED IN ORDER TO ACCOMPLISH WORK SHOWN ON DRAWINGS. DESIGN OF ALL SHORING SHALL BE PROVIDED BY THE CONTRACTOR. SHORING SHALL BE PROVIDED AT OR IMMEDIATELY ADJACENT TO LOCATION OF EXISTING SUPPORT REMOVAL.

DEMOLITION OF EXISTING CONSTRUCTION:
PRIOR TO THE START OF DEMOLITION OR EXPLORATORY WORK, THE OWNER SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY TO SURVEY THE EXISTING SITE CONDITIONS FOR THE PRESENCE OF HAZARDOUS MATERIALS SUCH AS, BUT NOT LIMITED TO, LEAD-BASED PAINT, ASBESTOS, MOLD, ETC. IF THE TESTS RESULTS ARE POSITIVE FOR ANY HAZARDOUS MATERIALS, AN EXPERIENCED REMEDIATION FIRM SHALL REMOVE THE HAZARDOUS MATERIALS IN COMPLIANCE WITH THE GUIDELINES AND REGULATIONS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS BEFORE DEMOLITION OR EXPLORATORY WORK MAY COMMENCE.

DAMAGE TO EXISTING CONSTRUCTION:
ALL WORK SHALL BE DONE IN A MANNER WHICH WILL NOT DAMAGE ADJACENT EXISTING CONSTRUCTION WHICH IS TO REMAIN.

PATCHING MATERIALS AND INSTALLATION:
ALL MATERIALS USED FOR PATCHING SHALL MATCH EXISTING MATERIALS IN APPEARANCE AND QUALITY. WORKMANSHIP SHALL BE IN CONFORMANCE WITH TODAY'S STANDARDS BUT SHALL BE NO LESS IN QUALITY THAN ANY OF THE ADJACENT WORKMANSHIP IN THE AREA BEING PATCHED.

PENETRATIONS IN EXISTING MASONRY/BRICK WALLS:
ALL NEW PENETRATIONS THROUGH EXISTING MASONRY WALLS OR CONCRETE SLAB GREATER THAN 3" AND NOT SHOWN HEREIN THESE DRAWINGS SHALL BE APPROVED BY FOX-NESBIT IN WRITING.

PRICING/BIDDING:
ALL ELEMENTS SHALL BE CONSIDERED NEW FOR PRICING/BIDDING UNLESS SPECIFICALLY IDENTIFIED AS EXISTING.

WELDING IN ENCLOSED SPACES:
WELDING IS TO BE PERFORMED IN ENCLOSED SPACES AND PROXIMITY TO EXISTING MATERIALS. TAKE NECESSARY VENTILATION, FIRE AND SAFETY PRECAUTIONS THAT ARE IN COMPLIANCE WITH THE GUIDELINES AND REGULATIONS OF LOCAL STATE, AND FEDERAL GOVERNMENTS INCLUDING AWS AND OSHA REQUIREMENTS BEFORE WORK MAY COMMENCE.

L. ABBREVIATIONS

@ -------------------- AT
A/E -------------------ARCHITECT/ENGINEER
A.F.F. -----------------ABOVE FINISHED FLOOR
ARCH. --------------- ARCHITECTURAL
BF -------------------- BRACED FRAME
BM. ------------------ BEAM
B.O.C. ---------------- BEAM ON COLUMN
B.O.S. ---------------- BOTTOM OF STEEL
BOT. ----------------- BOTTOM
BTM. ----------------- BOTTOM
B/W ------------------ BETWEEN
BTWN. --------------- BETWEEN
C.F.M.F. OR CFMF --- COLD-FORMED METAL FRAMING
C.I.P.------------------ CAST-IN-PLACE
C.G OR CG ---------- CENTER OF GRAVITY
CJP ------------------- COMPLETE JOINT PENETRATION
C.L. OR CL ----------- CENTER LINE
C.O.B. ---------------- COLUMN ON BEAM
COL. ----------------- COLUMN
CONT. --------------- CONTINUOUS
CONNX. ------------- CONNECTION
EL. ------------------- ELEVATION
ELEV.----------------- ELEVATION
ELEC. ---------------- ELECTRICAL
E.O.A. ---------------- EDGE OF ANGLE
E.O.R. ---------------- ENGINEER OF RECORD
E.O.S. ---------------- EDGE OF SLAB
EXIST. ---------------- EXISTING
F.F. -------------------FINISH FLOOR
FIN. FLR. ------------- FINISH FLOOR
GA. -------------------GAGE
GC ------------------- GENERAL CONTRACTOR
GL --------------------GLUE-LAMINATED
GR. BM. -------------- GRADE BEAM
HI -------------------- DETAIL APPLIES HIGH
H.S.A. OR HSA -------HEADED STUD ANCHOR
H.S.A.S.--------------- HEADED STUD ANCHORS
HSS -------------------HOLLOW STRUCTURAL SECTION
LO --------------------DETAIL APPLIES LOW
M.B.S.-----------------METAL BUILDING SUPPLIER
MECH. --------------- MECHANICAL
MEP------------------ MECHANICAL, ELECTRICAL, PLUMBING
N.T.S.----------------- NOT TO SCALE
O.C. ------------------ ON CENTER
O.C.E.W. ------------- ON CENTER EACH WAY
OPP. ------------------ OPPOSITE
PEMBS ---------------PRE-ENGINEERED METAL BUILDING SUPPLIER
PL. --------------------PLATE
P.T. -------------------POST TENSION OR POST-TENSIONED
POST-TENS ----------POST TENSION OR POST-TENSIONED
REINF. ----------------REINFORCEMENT
RTU -------------------ROOF TOP UNIT
SIM. ------------------SIMILAR
S.O.G.-----------------SLAB ON GRADE
STR. ------------------ STRENGTH
T.O. ------------------ TOP OF
T.O.C. ---------------- TOP OF CONCRETE
T.O.J. -----------------TOP OF JOIST
T.O.S. -----------------TOP OF STEEL
U.N.O. ----------------UNLESS NOTED OTHERWISE
V.O.J. -----------------VERIFY ON JOBSITE
W/ ------------------- WITH
WF ------------------- WIDE FLANGE
WWF -----------------WELDED WIRE FABRIC

M. FIELD VERIFICATIONS

CONTRACTOR TO FIELD MEASURE ALL NEEDED DIMENSIONS PRIOR TO ORDERING MATERIAL.

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DETAILS, GEOMETRY, DIMENSIONS, AND ELEVATIONS PRIOR TO ORDERING/FABRICATION OF MATERIALS. CONTACT ARCHITECT AND ENGINEER IMMEDIATELY IF ANY DIMENSIONS, DETAILS, OR ELEVATIONS ARE NOT FOUND TO MATCH THOSE SHOWN ON THE PLANS.

COMPONENTS AND CLADDING DESIGN PRESSURES (PSF)

ZONE / EWA (SF)	ROOF					ROOF OVERHANG			
	POSITIVE	NEGATIVE				POSITIVE	NEGATIVE		
	ALL ZONES	1	1'	2	3	ALL ZONES	1' AND 1	2	3
≤10	22.0	-86.1	-49.4	-113.5	-154.7	49.4	-77.8	-105.3	-146.5
20	20.6	-80.4	-49.4	-106.2	-140.1	47.3	-76.5	-95.6	-129.5
50	18.8	-72.9	-49.4	-96.6	-120.8	44.4	-74.6	-82.7	-107.0
100	17.4	-67.2	-49.4	-89.3	-106.2	42.2	-73.3	-73.0	-89.9
200	17.4	-61.5	-42.6	-82.0	-91.6	40.0	-61.4	-63.2	-72.9
350	17.4	-56.9	-37.0	-76.1	-79.8	38.2	-51.9	-55.4	-59.1
500	17.4	-54.0	-33.4	-72.3	-72.3	37.1	-45.8	-50.4	-50.4
≥1000	17.4	-54.0	-26.6	-72.3	-72.3	37.1	-45.8	-50.4	-50.4

ZONE / EWA (SF)	WALLS		
	POSITIVE	NEGATIVE	
	4 AND 5	4	5
≤10	49.4	-53.6	-65.9
20	47.3	-51.4	-61.5
50	44.4	-48.5	-55.8
100	42.2	-46.3	-51.4
200	40.0	-44.1	-47.0
≥500	37.1	-41.2	-41.2

Walls h ≤ 60'
& alt design h < 90'

MONOSLOPE ≤ 3 DEGREES
H ≤ 60'

NOTES:

1. EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
2. FOR ZONE DEFINITIONS, SEE ASCE 7-16 FIGURES 30.4 - (AS APPLICABLE)
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACE RESPECTIVELY.
4. EDGE WIDTH DIMENSION "a" = 11.6FT. BUILDING HEIGHT "h" =15.0 FT FOR EDGE ZONES OF LOW-SLOPED ROOFS.
5. LINEAR INTERPOLATION MAY BE USED BETWEEN EWA VALUES PROVIDED IN TABLE ABOVE.
6. PRESSURES IN TABLE ABOVE ARE ULTIMATE LEVEL PRESSURES BASED ON LATERAL DESIGN WIND PARAMETERS IN GENERAL NOTES.

CONCRETE MIX REQUIREMENTS

USAGE	AGGREGATE	MIN. CEMENT (lb/yd³)	SLUMP (inches)	7 DAY STR. (psi)	28 DAY STR. (psi)	WATER REDUCER	REMARKS
DRILLED SHAFTS	①	489	8	2000	3000	Ⓐ OR Ⓒ	
SPREAD & MAT FTGS.	①	489	4	2000	3000	Ⓑ	
GRADE BEAMS	①	489	4	2000	3000	Ⓑ	
PEDESTALS	①	489	4	2000	3000	Ⓑ	
SLAB ON GRADE	①	545	7	2700	4000	Ⓐ	
SLAB ON DECK	②	611	7	2000	3000	Ⓐ	
WALLS	①	545	7	2700	4000	Ⓐ	
DRY BOTTOMS					1500		
FLOWABLE FILL				---	1200		
ALL OTHERS	①	545	7	2700	4000	Ⓐ	
CMU FILL	③	489	9	2000	3000	Ⓐ OR Ⓒ	

① REGULAR SAND AND GRAVEL (145 pcf)
② LIGHT WEIGHT CONCRETE (114 TO 120 pcf)
③ REGULAR SAND AND PEA GRAVEL (145 pcf)

Ⓐ MID-RANGE WATER REDUCER
Ⓑ CONTRACTOR'S OPTION - IF WATER REDUCER IS USED, THEN SLUMP SHALL BE 7".
Ⓒ SUPER PLASTICIZER

NOTES:

THE SLUMP IN THE TABLE ABOVE IS GIVEN AT POINT OF PLACEMENT. THE ALLOWABLE TOLERANCE FOR SLUMP IS PLUS OR MINUS ONE INCH FROM THE VALUES GIVEN IN THE TABLE.

IF SUPER PLASTICIZER IS USED, THE SLUMP SHALL BE 3" PRIOR TO ADDITION OF THE SUPER PLASTICIZER. DO NOT USE SUPER PLASTICIZER IN SLABS.

CONCRETE NOT MEETING THE SPECIFIED SEVEN DAY STRENGTH SHALL EITHER BE REMOVED OR CONSTRUCTION MUST BE STOPPED IN THE QUESTIONABLE AREA UNTIL THE 28 DAY TEST VALUES HAVE BEEN APPROVED.

SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

REFERENCE SPECIFICATION SECTION 03 3000- FOR PROPORTIONING AND DESIGN OF MIXES.

REFERENCE SPECIFICATION SECTION 04 2200- FOR PROPORTIONING AND DESIGN OF MIXES FOR CMU FILL ONLY.

STANDARD BAR BEND DIAGRAMS

("d" = 90 DEGREES IF NOT PROVIDED)

NOTES:

SEE DETAILS AND KEYNOTES FOR DIMENSIONS OF ALL BARS AND TIES.

WHERE "a" AND "b" DIMENSIONS ARE NOT GIVEN, BASE DIMENSIONS ON CLEAR COVER DIMENSIONS FROM OUTER EDGE OF CONCRETE.

UNLESS NOTED OTHERWISE, ALL BAR BEND DIAMETERS ("D") SHALL BE IN ACCORDANCE WITH LATEST VERSION OF ACI 318.

REBAR LAP SPLICE REQUIREMENTS (MIN.)

LOCATION	BEAMS AND FOUNDATIONS		WALLS AND SLABS	
BAR / f'c	3000 PSI	4000 PSI	3000 PSI	4000 PSI
#3	22"	19"	16"	16"
#4	29"	25"	17"	16"
#5	36"	31"	26"	22"
#6	36"	36"	36"	36"
#7	42"	42"	42"	42"
#8	54"	54"	54"	54"
#9	63"	63"	63"	63"

GENERAL NOTES:

LAP SPLICE LENGTHS ABOVE APPLY TO ALL REINFORCING BARS FOR THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS.

ALL LAP SPLICES PROVIDED ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING BARS IN TENSION. SPLICES FOR WALL AND SLAB BARS ARE BASED ON A MINIMUM OF 1" CLEAR COVER.

FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

LAP SPLICES FOR GRADE BEAM TOP BARS SHALL BE PLACED IN THE CENTER OF THE SPAN BETWEEN PILES. LAP SPLICES FOR GRADE BEAM BOTTOM BARS SHALL BE PLACED DIRECTLY ABOVE A PILE.

LAP SPLICE LENGTHS PROVIDED IN THIS TABLE ARE BASED ON ACI 12.2.2, 12.2.3 AND 12.15.

METAL DECKING REQUIREMENTS

TYPE	DECKING	FASTENER LAYOUT		FASTENER METHOD		REMARKS
		SUPPORT	SIDE LAPS	SUPPORT	SIDE LAPS	
FLOOR	1.5VL 18 GA.	36/4	4	①	②	A
ROOF	1.5B 20 GA.	36/7	4	③	②	A

① #12 TEK SCREWS
② #10 TEK SCREWS
③ 5/8" DIA. PUDDLE WELDS.

A ATTACH DECK TO PERIMETER ANGLES/SUPPORTS AT 6" O.C. MAX.

NOTES:

- DO NOT USE WELDING FOR ROOF DECK ATTACHMENT.
- INCREASE SIZE OF SCREWS IF REQUIRED FOR ATTACHMENT TO THICKER STEEL ELEMENTS.
- TESTING AGENCY SHALL INSPECT ALL DECK FASTENING AND QUALITY OF PUDDLE WELDS.
- IN LIEU OF THE ROOF DECK FASTENING USING SCREWS INDICATED IN THE SCHEDULE, THE GENERAL CONTRACTOR MAY SUBMIT FOR REVIEW AND APPROVAL OF AN ALTERNATE DECK FASTENING SYSTEM BY HILTI (OR PRIOR APPROVED EQUAL) UTILIZING POWDER-ACTUATED FASTENERS. SUBMITTAL SHALL INDICATE ALL DETAILS OF FASTENER INSTALLATION AND INCLUDE DATA INDICATING THAT THE ALTERNATIVE DECK FASTENING SYSTEM PROVIDES DIAPHRAGM DESIGN AND UPLIFT CAPACITIES AT LEAST EQUIVALENT TO THAT OF THE DECK FASTENING INDICATED IN THE CONTRACT DOCUMENTS.

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REVISIONS

NO.	DESCRIPTION	DATE

THIRD FLOOR RENOVATION OF BLDG 29 LABORATORIES AT NIRC

4401 W. ADMIRAL DOYLE DRIVE,
NEW IBERIA, LOUISIANA
70560

NORTH

GENERAL NOTES AND SCHEDULES

GLEN A. LANDRY
4/14/26

PROJECT NUMBER 2025.040
DRAWN BY GG
DATE APRIL 14, 2026
CHECKED BY GL
PHASE BID SET

S-601

Autodesk Docs://2025.040_Third Floor Renovation to NIRC BLDG 29/26005 - NIRC Building 29 Renovation Struct R24.rvt
5/7/2026 11:19:03 AM