

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 21403.0 TJW JUDICIAL BUILDING
Location: Twin Falls, Idaho
Climate Zone: 5a
Project Type: New Construction
Vertical Glazing / Wall Area: 12%

Construction Site: 427 SHOSHONE ST N, TWIN FALLS, IDAHO 83301
Owner/Agent: BOB BEER, TWIN FALLS COUNTY, 427 SHOSHONE ST N, TWIN FALLS, IDAHO 83301, 208-358-1150, bob.beer@tfcwa.org
Designer/Contractor: DANIELLE WEAVER, CPHQA, 200 W BRADDO ST, BOISE, IDAHO 83702, 208-343-4635, danielle.weaver@cshqa.com

Additional Efficiency Package(s)
Credits: 1.0 Required, 1.0 Proposed
Enhanced Envelope Performance: 1.0 credit

Building Area	Floor Area
1-Office: Nonresidential	23900
2-Court House: Nonresidential	63500

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Insulation Entirely Above Deck, (Bldg. Use 1 - Office)	16505	—	38.0	0.028	0.032
Roof: Insulation Entirely Above Deck, (Bldg. Use 1 - Office)	4320	—	38.0	0.028	0.032
Roof: Insulation Entirely Above Deck, (Bldg. Use 2 - Court House)	24752	—	38.0	0.028	0.032
Floor: Building A: Unheated Slab-On-Grade Fully Insulated (uniform R-value across perimeter + under entire slab), (Bldg. Use 1 - Office) (c)	663	—	10.0	0.360	0.540
Floor: Building B: Unheated Slab-On-Grade Fully Insulated (uniform R-value across perimeter + under entire slab), (Bldg. Use 2 - Court House) (c)	702	—	10.0	0.360	0.540
Floor: Unheated Slab-On-Grade Fully Insulated (uniform R-value across perimeter + under entire slab), (Bldg. Use 2 - Court House) (c)	482	—	10.0	0.360	0.540
NORTH					
Ext. Wall - North: Steel-Framed, 24in. o.c., (Bldg. Use 1 - Office)	1589	21.0	10.0	0.048	0.064
Door: 1: Insulated Metal, Swinging, (Bldg. Use 1 - Office)	27	—	—	0.156	0.370
Door: 2: Insulated Metal, Swinging, (Bldg. Use 1 - Office)	45	—	—	0.156	0.370
Ext. Wall - North Wall 2: Steel-Framed, 24in. o.c., (Bldg. Use 2 - Court House)	10604	21.0	10.0	0.048	0.064
Window - 1: 12 second floor: Metal Frame: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.38, (Bldg. Use 2 - Court House) (b)	192	—	—	0.290	0.360
Window - 1: 25 first floor: Metal Frame: Fixed, Perf. Specs.:	200	—	—	0.290	0.360

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Data Filename: Report date: 01/18/23
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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Product ID System Select, SHGC 0.38, (Bldg. Use 2 - Court House) (b)	46	—	—	1.650	0.450
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID System Select, SHGC 0.38, (Bldg. Use 2 - Court House) (b)	1728	21.0	10.0	0.048	0.064
Ext. Wall - North Wall 3: Steel-Framed, 24in. o.c., (Bldg. Use 1 - Office)	2050	21.0	3.3	0.091	0.119
Basement Wall: North: Solid Concrete, 10in. Thickness, Normal Density, Furring: Metal, Wall HT 13.0, Depth B.G. 14.5, (Bldg. Use 2 - Court House)	5093	21.0	10.0	0.048	0.064
EAST					
Ext. Wall - East 1: Steel-Framed, 24in. o.c., (Bldg. Use 2 - Court House)	300	—	—	0.440	0.380
Window - 1: 3: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.26, (Bldg. Use 2 - Court House) (b)	24	—	—	0.156	0.370
Door: 1: Insulated Metal, Swinging, (Bldg. Use 2 - Court House)	24	—	—	0.156	0.370
Door: 2: Insulated Metal, Swinging, (Bldg. Use 2 - Court House)	45	—	—	0.156	0.370
Ext. Wall - East 2: Steel-Framed, 24in. o.c., (Bldg. Use 1 - Office)	2222	21.0	0.0	0.090	0.064
Basement Wall: East: Solid Concrete, 10in. Thickness, Normal Density, Furring: Metal, Wall HT 15.0, Depth B.G. 14.5, (Bldg. Use 2 - Court House)	666	21.0	3.3	0.091	0.119
SOUTH					
Ext. Wall - South 1: Steel-Framed, 24in. o.c., (Bldg. Use 1 - Office)	3359	21.0	10.0	0.048	0.064
Window - 1: 4: Metal Frame: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.26, (Bldg. Use 1 - Office) (b)	258	—	—	0.440	0.380
Window - 5: 7: Metal Frame: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.26, (Bldg. Use 1 - Office) (b)	880	—	—	0.440	0.380
Ext. Wall - South 2: Steel-Framed, 24in. o.c., (Bldg. Use 2 - Court House)	15328	21.0	10.0	0.048	0.064
Window - 1: 11: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.26, (Bldg. Use 2 - Court House) (b)	2468	—	—	0.244	0.360
Basement Wall: South: Solid Concrete, 10in. Thickness, Normal Density, Furring: Metal, Wall HT 15.0, Depth B.G. 14.5, (Bldg. Use 2 - Court House)	2050	21.0	3.3	0.091	0.119
WEST					
Ext. Wall - West 1: Steel-Framed, 24in. o.c., (Bldg. Use 1 - Office)	3342	21.0	10.0	0.048	0.064
Door: 1: Insulated Metal, Swinging, (Bldg. Use 1 - Office)	45	—	—	0.156	0.370
Window 1: 11: Metal Frame: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.38, (Bldg. Use 1 - Office) (b)	74	—	—	0.290	0.380
Ext. Wall - West 2: Steel-Framed, 24in. o.c., (Bldg. Use 1 - Office)	1533	21.0	10.0	0.048	0.064
Door: 1: 1: 2: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID System Select, SHGC 0.38, (Bldg. Use 1 - Office) (b)	90	—	—	1.650	0.770
Window - 1: Metal Frame: Fixed, Perf. Specs.: Product ID System Select, SHGC 0.26, (Bldg. Use 1 - Office) (b)	331	—	—	0.440	0.380
Basement Wall: West: Solid Concrete, 10in. Thickness, Normal Density, Furring: Metal, Wall HT 13.0, Depth B.G. 14.5, (Bldg. Use 2 - Court House)	666	21.0	3.3	0.091	0.119

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Envelope PASSED: Design 5% better than code
Envelope Compliance Statement
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckweb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.
Katherine Leija - AIT II
Name Title Signature Date 1/18/2023

Project Title: 21403.0 TJW JUDICIAL BUILDING
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I am a Licensed Professional Architect in the State of Idaho. I am also a Licensed Professional Engineer in the State of Idaho. I am a member of the American Institute of Architects and the American Society of Professional Engineers. I have been practicing architecture and engineering for over 20 years. I am currently employed by CSHQA as a Licensed Professional Architect and Licensed Professional Engineer. I am responsible for the design and construction of a wide variety of buildings, including residential, commercial, and industrial. I am also responsible for the preparation of architectural and engineering drawings and specifications. I am a member of the American Institute of Architects and the American Society of Professional Engineers. I am currently employed by CSHQA as a Licensed Professional Architect and Licensed Professional Engineer. I am responsible for the design and construction of a wide variety of buildings, including residential, commercial, and industrial. I am also responsible for the preparation of architectural and engineering drawings and specifications.



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Theron W. Ward Judicial Building
Remodel & Expansion 427 Shoshone St N Twin Falls, ID
CSHQA

AGENCY REVIEW SET

PROJECT 21403.000	DATE 04-17-23
DRAWN NB, KL	CHECKED DRD

REVISIONS

SHEET TITLE
ENERGY COMPLIANCE

SHEET
G01

ORIGINAL SHEET SIZE
36" x 48"

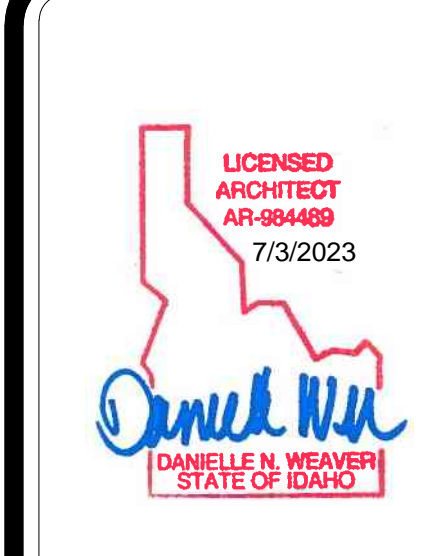
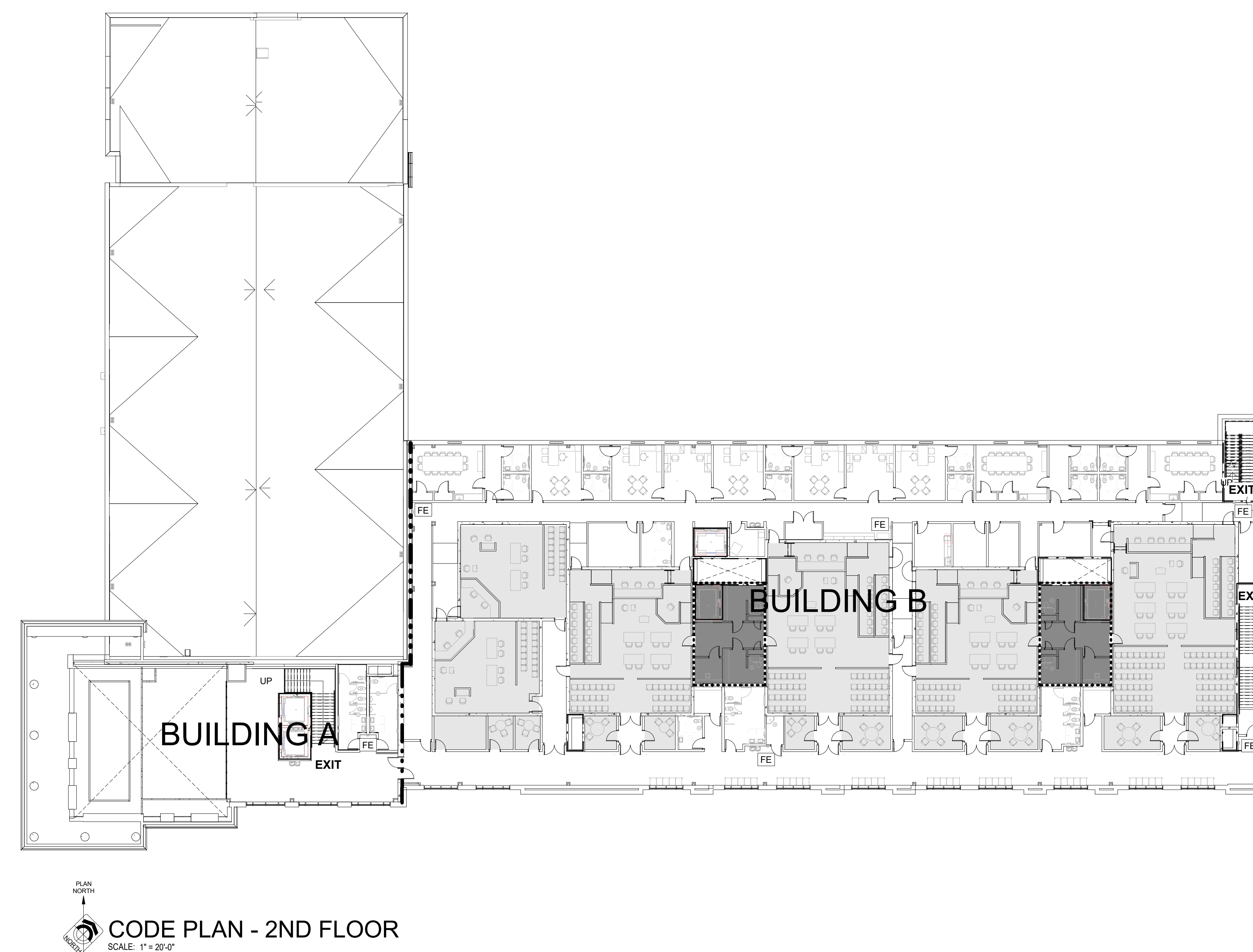
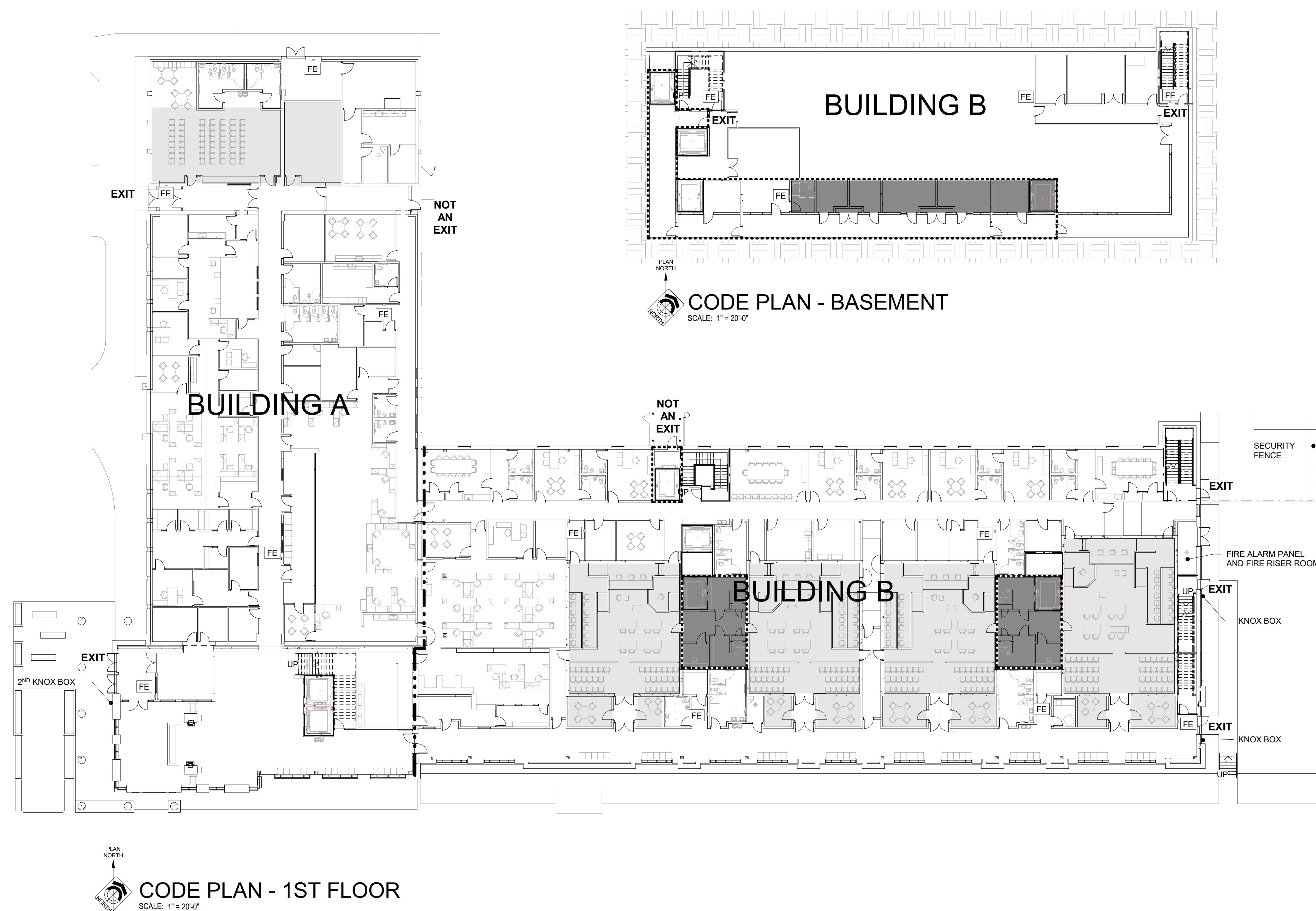


SITE
SCALE: 1" = 80'-0"

CODE DATA:	
BUILDING A	
DESCRIPTION:	EXISTING BUILDING AND ADDITION
SITE DESCRIPTION:	NORTH: PUBLIC WAY EAST: EXISTING JAIL AND NEW FIRE WALL SOUTH: PUBLIC WAY WEST: PUBLIC WAY AND EXISTING HISTORIC COUNTY COURTHOUSE
ALLOWABLE AREA:	INCREASED 0% DUE TO FRONTAGE PER IBC 506.3.3
CONSTRUCTION TYPE:	II-B
OCCUPANCIES:	A-3, B
ACTUAL AREA:	1ST FLOOR: A-3 TRAINING/CONFERENCE: 1,674 SF B OFFICE AREAS: 20,326 SF MEZZANINE: B ACCESSORY AREA (CIRCULATION): 1,900 SF
ALLOWABLE AREA:	38,000 SF
ALLOWABLE STORIES:	2 PER IBC TABLE 504.4
ACTUAL STORIES:	1
ALLOWABLE BUILDING HEIGHT:	75'-0"
ACTUAL BUILDING HEIGHT:	44'-0"
FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS:	
PRIMARY STRUCTURAL FRAME:	0 HOURS PER IBC TABLE 601
BEARING WALLS-EXTERIOR:	0 HOURS PER IBC TABLE 601 AND TABLE 705.5
BEARING WALLS-EXTERIOR:	0 HOURS PER IBC TABLE 601 AND TABLE 705.5 EXCEPT EXISTING 1 HOUR AT PROXIMITY TO EXISTING JAIL IS ASSUMED
BEARING WALLS-INTERIOR:	0 HOUR PER IBC TABLE 601
NONBEARING WALLS-INTERIOR:	0 HOUR PER IBC TABLE 601
FLOOR CONSTRUCTION:	0 HOUR PER IBC TABLE 601
ROOF CONSTRUCTION:	0 HOUR PER IBC TABLE 601
MINIMUM ROOF CLASS:	CLASS B
FIRE WALL:	3 HOUR FRIED RATED PER IBC TABLE 706.4
FIRE DOORS AT FIRE WALLS:	3 HOUR FRIED RATED PER IBC TABLE 716.1(2)
PORTABLE FIRE EXTINGUISHERS:	YES
AUTOMATIC SPRINKLER SYSTEM:	YES
TOTAL OCCUPANT LOAD:	147
EXITS REQUIRED:	2
EXITS PROVIDED:	2 PLUS 2 THROUGH BUILDING 2
EXIT WIDTH REQUIRED:	30 INCHES
EXIT WIDTH PROVIDED:	APPROX. 96 INCHES IN BUILDING 1 APPROX. 64 INCHES IN BUILDING 2 FROM SECOND FLOOR AT MEZZANINE: APPROX. 90" WIDE OPEN STAIR DOWN TO MAIN LOBBY
MAXIMUM TRAVEL DISTANCE:	300 FEET
AREA OF REFUGE AT ELEVATORS:	NOT REQUIRED (IBC 1009.3.3)
ELEVATOR SHAFTS:	1 HOUR FIRE RATED
REQUIRED PLUMBING FIXTURES:	SEE SEPARATE ANALYSIS

CODE DATA:	
BUILDING B	
DESCRIPTION:	NEW CONSTRUCTION
SITE DESCRIPTION:	NORTH: FIRE WALL AND EXISTING JAIL EAST: PUBLIC WAY SOUTH: PUBLIC WAY WEST: FIRE WALL AND PUBLIC WAY
ALLOWABLE AREA:	INCREASED 0% DUE TO FRONTAGE PER IBC 506.3.3
CONSTRUCTION TYPE:	II-B
OCCUPANCIES:	B, A-3 & I-3
ACTUAL AREA:	BASEMENT: I-3 JAIL: 600 SF B LIGHT STORAGE: 10,500 SF TOTAL: 11,100 SF FIRST FLOOR: A-3 COURTROOMS: 6,800 SF B OFFICE AREAS: 18,400 SF I-3 JAIL: 1,200 SF TOTAL: 26,200 SF SECOND FLOOR: A-3 COURTROOMS: 9,100 SF B OFFICE AREAS: 15,800 SF I-3 JAIL: 1,300 SF TOTAL: 26,200 SF
ALLOWABLE AREA PER STORY:	28,000 SF
ALLOWABLE STORIES:	2 PER IBC TABLE 504.4
ACTUAL STORIES:	2
ALLOWABLE BUILDING HEIGHT:	75'-0"
ACTUAL BUILDING HEIGHT:	44'-0"
FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS:	
PRIMARY STRUCTURAL FRAME:	0 HOURS PER IBC TABLE 601
BEARING WALLS-EXTERIOR:	0 HOURS PER IBC TABLE 601 AND TABLE 705.5
BEARING WALLS-EXTERIOR:	0 HOURS PER IBC TABLE 601 AND TABLE 705.5 NOTE: DESIGN MAINTAINS MORE THAN 10' FROM EXISTING JAIL ON NORTH SIDE.
BEARING WALLS-INTERIOR:	0 HOUR PER IBC TABLE 601
NONBEARING WALLS-INTERIOR:	0 HOUR PER IBC TABLE 601
FLOOR CONSTRUCTION:	0 HOUR PER IBC TABLE 601
ROOF CONSTRUCTION:	0 HOUR PER IBC TABLE 601
MINIMUM ROOF CLASS:	CLASS B
FIRE WALL:	3 HOUR FRIED RATED PER IBC TABLE 706.4
FIRE DOORS AT FIRE WALLS:	3 HOUR FRIED RATED PER IBC TABLE 716.1(2)
PORTABLE FIRE EXTINGUISHERS:	YES
AUTOMATIC SPRINKLER SYSTEM:	YES
FIRE ALARM SYSTEM:	YES
TOTAL OCCUPANT LOAD:	BASEMENT: 40 FIRST FLOOR: 629 SECOND FLOOR: 627
EXITS REQUIRED:	BASEMENT: 2 FIRST FLOOR: 3 SECOND FLOOR: 3
EXITS PROVIDED:	BASEMENT: 3 FIRST FLOOR: 1 PLUS 2 THROUGH BUILDING 1 TOTAL: 4 SECOND FLOOR: 2 PLUS 1 THROUGH BUILDING 1 TOTAL: 3
EXIT WIDTH REQUIRED:	BASEMENT: 8 INCHES FIRST FLOOR: 126 INCHES SECOND FLOOR: 188 INCHES
EXIT WIDTH PROVIDED:	BASEMENT: APPROX. 64 INCHES FIRST FLOOR: APPROX. 64 INCHES FROM BUILDING 2 APPROX. 96 INCHES FROM BUILDING 1 SECOND FLOOR: APPROX. 232"
MAXIMUM TRAVEL DISTANCE:	FIRST FLOOR: B Occupancy: 238 feet A-3 Occupancy: 254 feet I-3 Occupancy: 258 feet SECOND FLOOR: B Occupancy: 282 feet A-3 Occupancy: 258 feet I-3 Occupancy: 260 feet
AREA OF REFUGE AT ELEVATORS:	NOT REQUIRED (IBC 1009.3.3)
ELEVATOR SHAFTS:	1 HOUR FIRE RATED
REQUIRED PLUMBING FIXTURES:	SEE SEPARATE ANALYSIS

LEGEND	
	1-HOUR RATED FIRE WALL ASSEMBLY WITH 60 MIN FIRE RATED OPENINGS
	3-HOUR RATED FIRE WALL ASSEMBLY WITH 3-HOUR FIRE RATED OPENINGS
	I-3 PERIMETER-RESTRICTED EGRESS INTO AND OUT OF THIS AREA
	SEMI-RECESSED FIRE EXTINGUISHER CABINET, RE-DETAIL T1-4 FOR MOUNTING REQUIREMENTS
	REQUIRED EXIT / EXIT ACCESS DOOR(S)
	B OCCUPANCY
	A-3 OCCUPANCY
	I-3 OCCUPANCY



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AGENCY REVIEW SET

PROJECT	DATE
21403.000	04-17-23
DRAWN	CHECKED
NB, KL	DRD
REVISED	

SHEET TITLE
CODE PLAN & DATA

SHEET
G11
ORIGINAL SHEET SIZE
36" x 48"



LEGEND

- INDICATES 1-HR FIRE RATED ASSEMBLY
- INDICATES 3-HR FIRE RATED ASSEMBLY
- INDICATES COMMON PATH OF TRAVEL
- EXIT ACCESS TRAVEL DISTANCE
- BUILDING DIAGONAL
- EXIT DOOR SEPARATION

FE
FIRE EXTINGUISHER LOCATION. CW/FIXTURE TYPES 'S' AND 'T' AT IS-1. UL RATINGS TO BE COORDINATED WITH FIRE DEPARTMENT RE: DETAIL 171-4

EXIT
REQUIRED EXIT / EXIT ACCESS DOOR(S)

OCCUPANT LOAD

ROOM SF

LOAD FACTOR

INDICATES ROOM OCCUPANCY INFORMATION

LEGEND

- ZONE 1A
- ZONE 1B
- ZONE 1C
- ZONE 1D
- ZONE 1E

FIXTURES REQUIRED

FIXTURES REQUIRED PER ZONE BASED ON OCCUPANCY

ZONE 1A - TRAINING AREA

A-3 OCCUPANCY
GROSS AREA / 15
1,100 / 15 = 77 OCCUPANTS
MEN - REQUIRED = (1) WC, (1) U AND (1) L PROVIDED = (1) WC, (1) U AND (1) L
WOMEN - REQUIRED = (3) WC AND (1) L PROVIDED = (3) WC AND (2) L

ZONE 1B - PUBLIC AREA

B OCCUPANCY
GROSS AREA / 150
9,925 / 150 = 66 OCCUPANTS
30 MEN - REQUIRED = (1) WC, (1) U AND (1) L PROVIDED = (1) WC, (1) U AND (1) L
30 WOMEN - REQUIRED = (2) WC AND (1) L PROVIDED = (4) WC AND (2) L

A-3 OCCUPANCY
GROSS AREA / 15 + COURTROOMS + FIXED SEATING
2,088 / 15 = 139 + 204 + 45 = 388

388 TOTAL OCCUPANTS

190 MEN - REQUIRED = (2) WC, (2) U AND (2) L PROVIDED = (3) WC, (2) U AND (2) L
193 WOMEN - REQUIRED = (4) WC AND (2) L PROVIDED = (4) WC AND (2) L
(1) DF, USE JAN SINK ASSOCIATED WITH ADJACENT AREA. PROVIDED = (2) DF

ZONE 1C - STAFF / RESTRICTED AREA

B OCCUPANCY
GROSS AREA / 150 + JURY
19,170 / 150 = 128 + 184 = 312

312 TOTAL OCCUPANTS

82 MEN - REQUIRED = (2) WC, (1) U AND (1) L PROVIDED = (5) WC, (1) U AND (4) L
82 WOMEN - REQUIRED = (4) WC, (2) L PROVIDED = (6) WC, (5) L
(2) DF, (1) JAN SINK PROVIDED = (2) DF, (1) JAN SINK

ZONE 1D - JUDGES

B OCCUPANCY
GROSS AREA / 150
1,934 / 150 = 13

13 TOTAL OCCUPANTS

8 MEN - REQUIRED = (1) WC AND (1) L PROVIDED = (2) WC AND (1) L
6 WOMEN - REQUIRED = (3) WC AND (1) L
EACH JUDGE HAS A DEDICATED RESTROOM PROVIDED = (6) WC, AND (6) L

ZONE 1E - HOLDING

B OCCUPANCY
GROSS AREA / 150
1,934 / 150 = 13

13 TOTAL OCCUPANTS

12 MEN - REQUIRED = (1) WC AND (1) L PROVIDED = (2) WC AND (2) L
12 WOMEN - REQUIRED = (1) WC AND (1) L PROVIDED = (2) WC AND (2) L
REQUIRED = (1) DF PROVIDED = (3) DF

1 CODE PLAN - LEVEL 1
3/32" = 1'-0"

KEY PLAN:

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TWIN FALLS, ID
BOISE, ID

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REMODEL & EXPANSION** 427 Shoshone St N Twin Falls, ID

AGENCY REVIEW SET

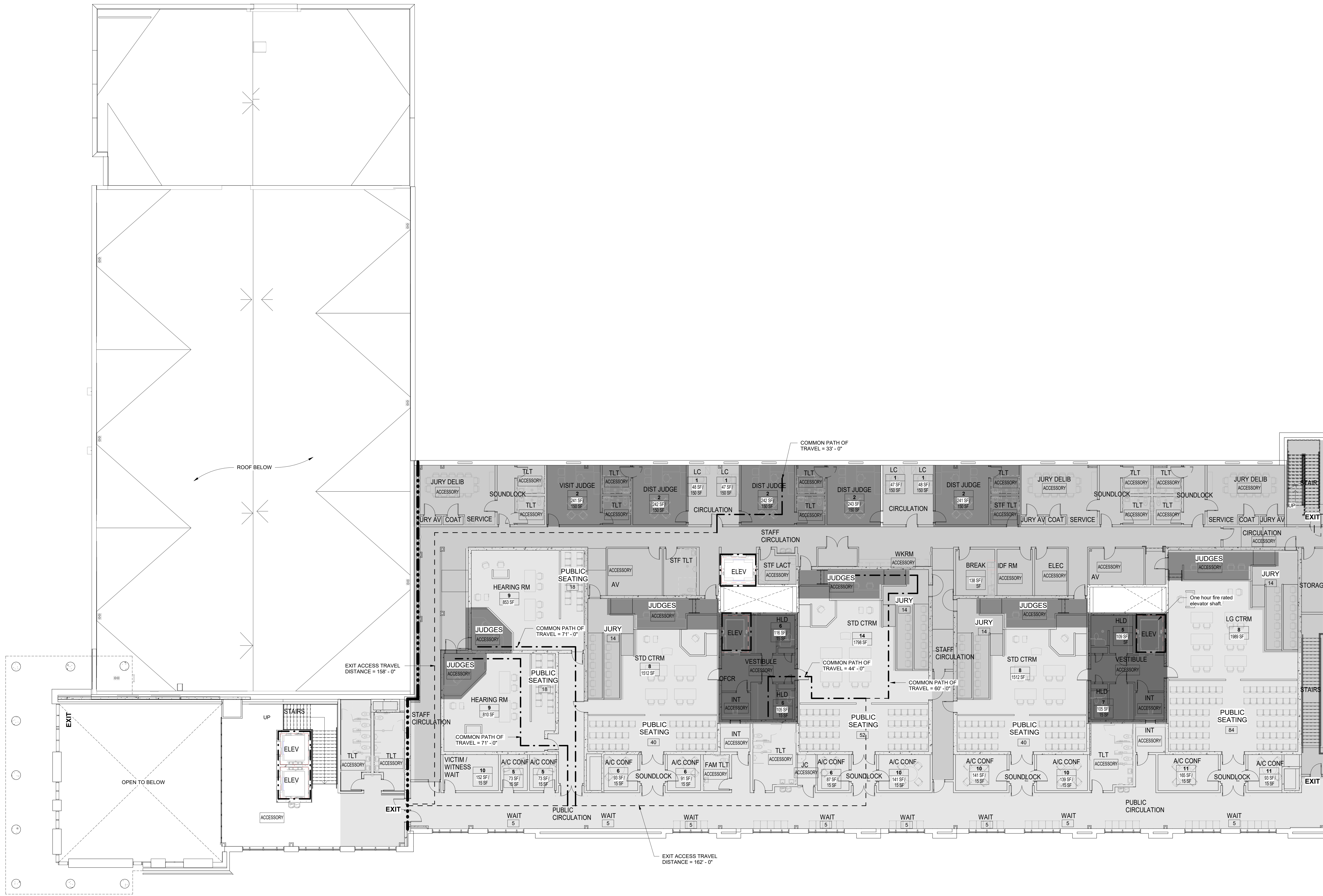
PROJECT	DATE
21403.000	04-17-23
DRAWN	CHECKED
NL, KL	DRD
REVISED	

FIRST FLOOR AND BASEMENT EGRESS PLAN

SHEET

G21

ORIGINAL SHEET SIZE 36" x 48"



1 CODE PLAN - LEVEL 2
3/32" = 1'-0"

LEGEND

- INDICATES 1-HR FIRE RATED ASSEMBLY
- INDICATES 3-HR FIRE RATED ASSEMBLY
- INDICATES COMMON PATH OF TRAVEL
- EXIT ACCESS TRAVEL DISTANCE
- BUILDING DIAGONAL
- EXIT DOOR SEPARATION

FE FIRE EXTINGUISHER LOCATION. CWI FIXTURE TYPES 'S' AND 'T' AT 81-1. UL RATINGS TO BE COORDINATED WITH FIRE DEPARTMENT RE-DETAIL 171-4

EXIT REQUIRED EXIT / EXIT ACCESS DOOR(S)

OC OCCUPANT LOAD

RS ROOM SF

LF LOAD FACTOR

INDICATES ROOM OCCUPANCY INFORMATION

LEGEND

- ZONE 1A
- ZONE 1B
- ZONE 1C
- ZONE 1D
- ZONE 1E

FIXTURES REQUIRED

FIXTURES REQUIRED PER ZONE BASED ON OCCUPANCY

ZONE 1B - PUBLIC AREA

MN. REQUIRED PLUMBING FIXTURES THIS AREA:

A3 OCCUPANCY
GROSS AREA / 15 + COURTROOMS + FIXED SEATING
1,429 / 15 = 95 + 266 = 40

401 TOTAL OCCUPANTS

200 MEN REQUIRED = (2) WC, (2) U AND (1) L
PROVIDED = (3) WC, (3) U AND (3) L

200 WOMEN REQUIRED = (4) WC AND (2) L
PROVIDED = (8) WC AND (4) L

(1) DF, USE JAN SINK ASSOCIATED WITH ADJACENT AREA.
PROVIDED = (2) DF

ZONE 1C - STAFF / RESTRICTED AREA

MN. REQUIRED PLUMBING FIXTURES THIS AREA:

B OCCUPANCY
GROSS AREA / 150 + JURY
5,353 / 150 = 35 + 58 = 92

92 TOTAL OCCUPANTS

46 MEN REQUIRED = (1) WC, (1) U (1) L
PROVIDED = (3) WC, (3) L

46 WOMEN REQUIRED = (3) WC, (1) L
PROVIDED = (5) WC, (4) L

(2) DF, (1) JAN SINK
PROVIDED = (2) DF, (1) JAN SINK

ZONE 1D - JUDGES

MN. REQUIRED PLUMBING FIXTURES THIS AREA:

B OCCUPANCY
GROSS AREA / 150
1,754 / 150 = 12

12 TOTAL OCCUPANTS

6 MEN REQUIRED (1) WC AND (1) L
6 WOMEN REQUIRED (1) WC AND (1) L

EACH JUDGE HAS A DEDICATED RESTROOM
PROVIDED = (6) WC AND (6) L

ZONE 1E - HOLDING

MN. REQUIRED PLUMBING FIXTURES THIS AREA:

I3 OCCUPANCY

24 TOTAL OCCUPANTS

12 MEN REQUIRED (1) WC AND (1) L
PROVIDED (2) WC AND (2) L

12 WOMEN REQUIRED (1) WC AND (1) L
PROVIDED (2) WC AND (2) L

REQUIRED: (1) DF
PROVIDED = (6) DF

KEY PLAN:

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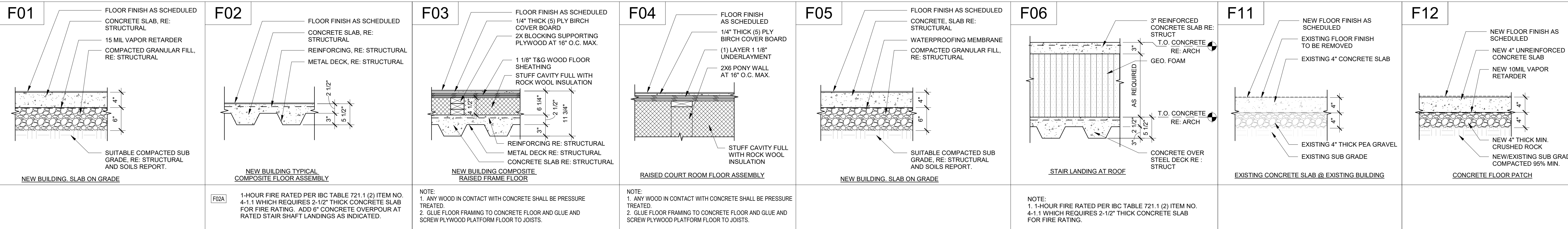
PROJECT	DATE
21403.000	04-17-23
DRAWN	CHECKED
NB.KL	DRD
REVISED	

SECOND FLOOR EGRESS PLAN

SHEET
G22
 ORIGINAL SHEET SIZE
 36" x 48"

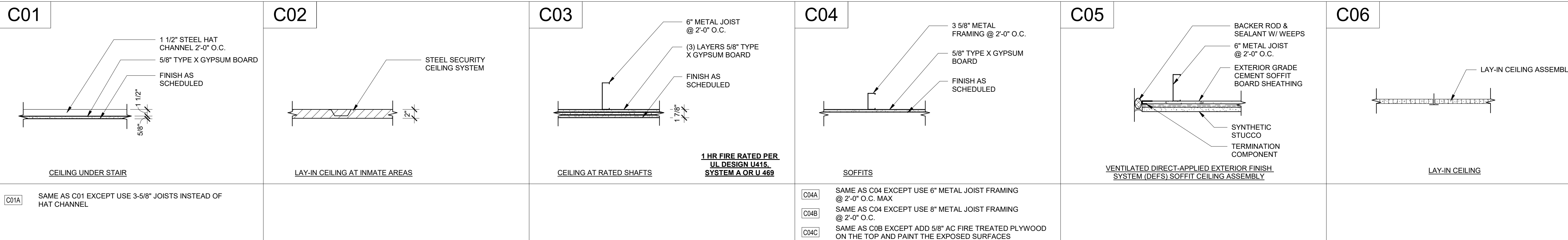
1 FLOOR TYPES

1" = 1'-0"



2 CEILING TYPES

1" = 1'-0"



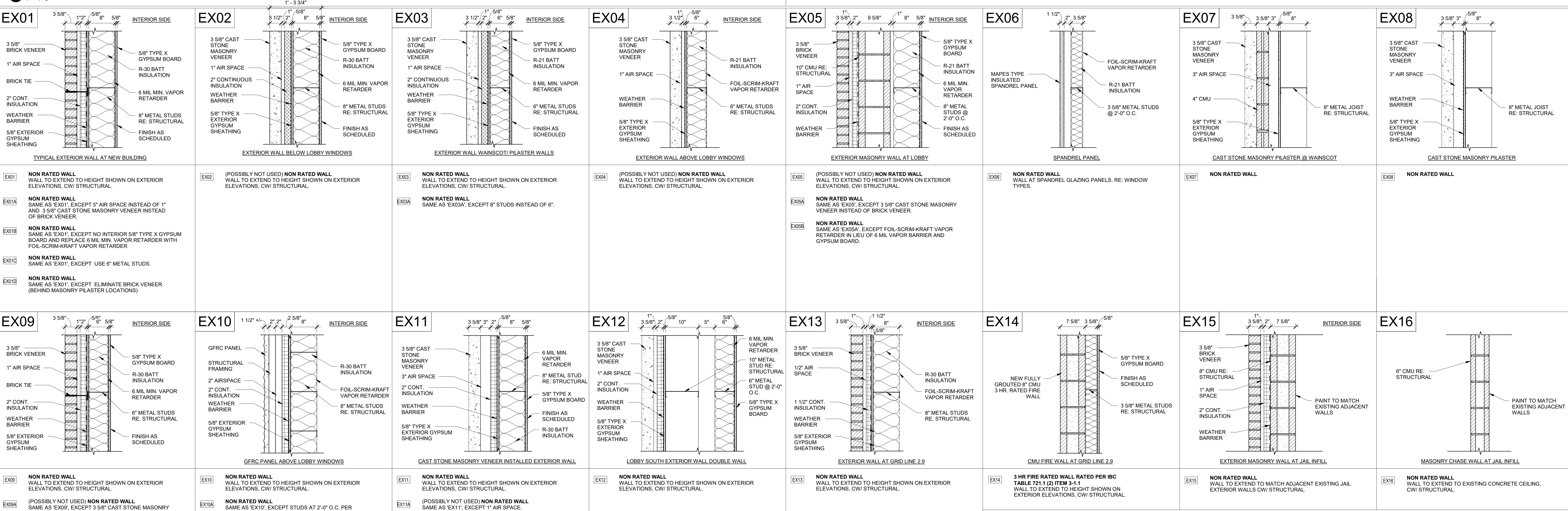
GENERAL NOTES:

- WALLS AND PARTITIONS WITHIN 2'-0" OF SERVICE SINKS, LAVATORY AREAS, URINALS AND WATER CLOSETS SHALL HAVE WATER RESISTANT GYPSUM BOARD TO A HEIGHT OF NOT LESS THAN 4'-0".
- ALL METAL STUD FRAME WALLS WHICH EXTEND TO STRUCTURE ABOVE TO ALLOW FOR DEFLECTION - SEE DETAILS A50-22, A73-6 AND A73-15.
- ALL METAL STUD FRAME WALLS EXTEND TO DECK/ STRUCTURE ABOVE UNLESS NOTED OTHERWISE.
- METAL STUD FRAME WALLS WHICH RUN PERPENDICULAR TO STRUCTURE ABOVE - SEE DETAILS A50-23, A73-6, A73-14 AND A73-15.
- METAL STUD FRAME WALLS WHICH RUN PARALLEL TO WOOD ROOF JOISTS ABOVE - SEE DETAIL A50-24.
- METAL STUD FRAME WALLS WHICH RUN PARALLEL TO STEEL ROOF OR FLOOR JOISTS ABOVE - SEE DETAIL A50A-1.
- STRUCTURAL STUD SIZE AND SPACING IS SHOWN ON THESE WALL ASSEMBLIES. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND THE STRUCTURAL DOCUMENTATION, STRUCTURAL SIZE/SPACING DICTATES.
- PROVIDE SPRAY FOAM INSULATION WHERE STRUCTURE INTERRUPTS THE CONTINUOUS INSULATION AT EXTERIOR WALLS.

3 EXTERIOR WALL TYPES

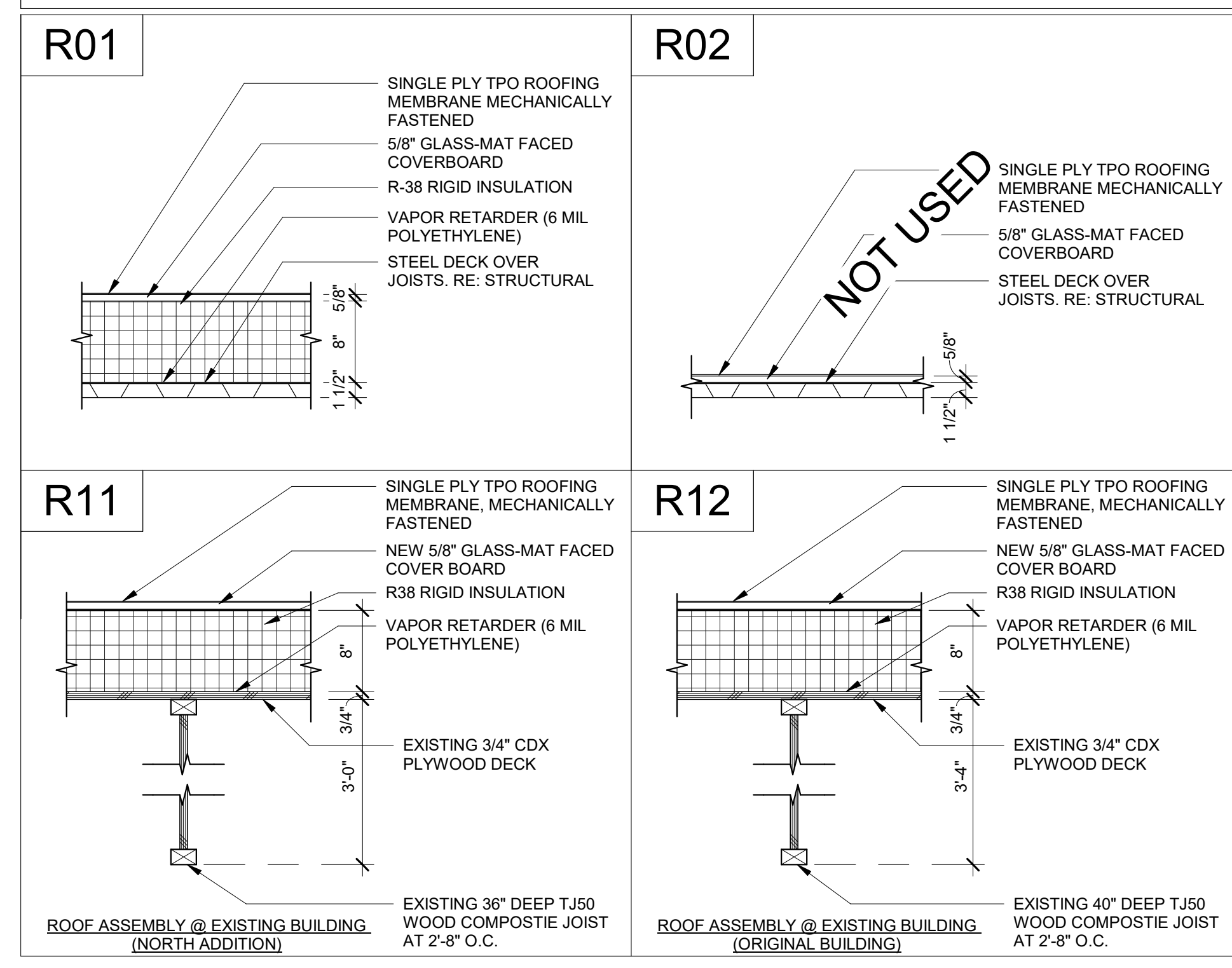
1" = 1'-0"

STEEL STUD GAUGE AS REQUIRED PER MANUFACTURER'S LIMITING HEIGHT TABLES, UNLESS OTHERWISE NOTED IN STRUCTURAL DRAWINGS. COORDINATE WITH STRUCTURAL.



4 ROOF TYPES

1" = 1'-0"



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AGENCY REVIEW SET

PROJECT	DATE
21403.000	04-17-23
DRAWN	CHECKED
NB.KLMH	DRD
REVISED	

ASSEMBLIES

SHEET TITLE

SHEET

G71
ORIGINAL SHEET SIZE 36" x 48"

1 INTERIOR WALL TYPES

1" = 1'-0"

STEEL STUD GAUGE AS REQUIRED PER MANUFACTURER'S LIMITING HEIGHT TABLES, UNLESS OTHERWISE NOTED IN STRUCTURAL DRAWINGS, COORDINATE WITH STRUCTURAL.

<p>W01 3 HR FIRE RATED WALL AT EXISTING PARAPET</p>	<p>W02 (POSSIBLY NOT USED) 1 HR FIRE RATED WALL PER UL DESIGN U415, SYSTEM A OR U469</p> <p>NOTE: SEE DETAIL A73-16 AT INSIDE CORNER CONSTRUCTION FOR THIS FIRE RATED ASSEMBLY</p>	<p>W03 DOUBLE 3 HR. RATED FIRE WALL</p>	<p>W04 3 HR FIRE RATED WALL PER UL DESIGN U415, SYSTEM G</p>	<p>W05 1 HR FIRE RATED WALL PER UL DESIGN U415, SYSTEM A OR U469</p>	<p>W06 NON RATED WALL</p> <p>W06A 1 HR FIRE RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 4-1.1 SAME AS W06</p> <p>W06B NON RATED WALL SAME AS W06 EXCEPT 8\"/> <p>W06C 1 HR FIRE RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 4-1.1 SAME AS W06B</p> </p>	<p>W07 NON RATED WALL</p> <p>W07A 1 HR FIRE RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 4-1.1</p> <p>W07B NON RATED WALL SAME AS W07 EXCEPT 8\"/> </p>	<p>W08 3 HR FIRE RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1</p> <p>W08A (POSSIBLY NOT USED) 3 HR FIRE RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 SAME AS W08 EXCEPT WITH 3 5/8\"/> </p>
<p>W09 SINGLE 3 HR. RATED FIRE WALL</p>	<p>W10 INTERIOR 3 5/8\"/> </p>	<p>W11 INTERIOR WALL AT COURTROOMS</p>	<p>W12 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W13 FIRE WALL</p> <p>NOTE: 3 HR FIRE RATED NEW FIRE WALL PER IBC TABLE 721.1(2) ITEM 3-1.1</p>	<p>W14 INTERIOR WALL BETWEEN INMATE HOLDING & ADJACENT SPACE</p>	<p>W15 INTERIOR WALL BETWEEN INMATE HOLDING & COURTROOM</p>	<p>W16 INTERIOR WALL BETWEEN INMATE HOLDING & COURTROOM</p>
<p>W17 NON RATED WALL WALL TO EXTEND 6\"/> <p>W17A (POSSIBLY NOT USED) NON RATED WALL SAME AS W17 EXCEPT WITH 3 1/2\"/> <p>W17B (POSSIBLY NOT USED) NON RATED WALL SAME AS W17 EXCEPT T.O. WALL TO EXTEND TO UNDERSIDE OF ROOF DECK</p> <p>W17C NON RATED WALL SAME AS W17B EXCEPT WITH 3 1/2\"/> </p></p></p>	<p>W18 NON RATED WALL WALL TO EXTEND TO 6\"/> <p>W18A NON RATED WALL SAME AS W18 EXCEPT WALL TO EXTEND TO FLOOR OR ROOF DECK</p> <p>W18B (POSSIBLY NOT USED) NON RATED WALL SAME AS W18 EXCEPT WALL TO EXTEND TO FLOOR OR ROOF DECK</p> <p>W18C NON RATED WALL SAME AS W18 EXCEPT ADD 1 1/2\"/> <p>W18D 1 HR RATED FIRE WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 SAME AS W18 EXCEPT FIRE RATED</p> <p>W18E 1 HR RATED FIRE WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 SAME AS W18 EXCEPT NOT FULLY GROUDED</p> </p></p>	<p>W19 NON RATED WALL T.O. WALL - SEE ROOF PLAN AND DETAILS</p> <p>W19A NON RATED WALL SAME AS W19 EXCEPT WITH 3 1/2\"/> <p>W19B NON RATED WALL SAME AS W19 EXCEPT WITHOUT HAT CHANNEL OR GYP.</p> <p>W19C 1 HR RATED FIRE WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 T.O. WALL - SEE ROOF PLAN AND DETAILS</p> <p>W19D (POSSIBLY NOT USED) RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 SAME AS W19 EXCEPT WITH HAT CHANNEL OR GYP.</p> <p>W19E (POSSIBLY NOT USED) RATED WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 SAME AS W19 EXCEPT WITHOUT HAT CHANNEL OR GYP.</p> </p>	<p>W20 INTERIOR 6\"/> </p>	<p>W21 INTERIOR FURRED OUT WALL</p>	<p>W22 NON RATED WALL</p> <p>W22A NON RATED WALL SAME AS W22 EXCEPT WITH 3 1/2\"/> <p>W22B NON RATED WALL SAME AS W22A EXCEPT T.O. WALL EXTEND TO BOTTOM CHORD OF WOOD TRUSSES ABOVE. METALL BLOCKING @ 2'-0\"/> <p>W22C NON RATED WALL SAME AS W22 EXCEPT REMOVE 5/8\"/> <p>W22D NON RATED WALL SAME AS W22 EXCEPT ADD R-21 BATT THERMAL INSULATION AND A VAPOR RETARDER ON THE WARM SIDE OF THE INSULATION UNDERNEATH THE GYPSUM BOARD</p> </p></p></p>	<p>W23 NON RATED WALL</p> <p>W23A NON RATED WALL SAME AS W23 EXCEPT WITH 6\"/> <p>W23B NON RATED WALL SAME AS W23 EXCEPT WITH T.O. WALL 4'-6\"/> <p>W23C 1 HR RATED FIRE WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 13-1.1</p> <p>W23D NON RATED WALL SAME AS W23 EXCEPT WITH 5/8\"/> </p></p></p>	<p>W24 NEW INTERIOR FRAME WALL @ EXISTING BUILDING</p>
<p>W25 NON RATED WALL</p>	<p>W26 INFILL @ EXISTING CMU LOAD BEARING WALL</p>	<p>W27 EXISTING INTERIOR MASONRY LOAD BEARING</p>	<p>W28 (POSSIBLY NOT USED) NON RATED WALL</p> <p>W28A NON RATED WALL SAME AS W28 EXCEPT ADD 8\"/> </p>	<p>W29 3 HOUR FIRE RATED PER GA FILE NO. WP8600</p>	<p>W30 NON RATED WALL</p> <p>W30A NON RATED WALL SAME AS W30 EXCEPT WITH 3 1/2\"/> </p>	<p>W31 (POSSIBLY NOT USED) NON RATED WALL</p>	<p>W32 INFILL @ EXISTING CMU LOAD BEARING WALL</p>
<p>W33 NON BEARING 6\"/> </p>	<p>W34 1 HR RATED FIRE WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1</p> <p>W34A 1 HR RATED FIRE WALL PER IBC TABLE 721.1 (2) ITEM NUMBER 3-1.1 SAME AS W34 EXCEPT 3 5/8\"/> </p>	<p>W35 NON RATED WALL PARTIAL HEIGHT WALL @ LOBBY STAIR</p>	<p>W36 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W37 INTERIOR WALL BETWEEN INMATE HOLDING & ADJACENT SPACE</p>	<p>W38 INTERIOR WALL BETWEEN INMATE HOLDING & COURTROOM</p>	<p>W39 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W40 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>
<p>W41 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W42 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W43 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W44 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W45 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W46 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W47 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W48 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>
<p>W49 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W50 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W51 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W52 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W53 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W54 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W55 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>	<p>W56 INTERIOR WALL AT LOBBY NEXT TO EXISTING BLDG.</p>

GENERAL NOTES:

- WALLS AND PARTITIONS WITHIN 2'-0" OF SERVICE SINKS, LAUNDRY AREAS, URINALS AND WATER CLOSETS SHALL HAVE WATER RESISTANT GYPSUM BOARD TO A HEIGHT OF NOT LESS THAN 4'-0".
- ALL METAL STUD FRAME WALLS WHICH EXTEND TO STRUCTURE ABOVE TO ALLOW FOR DEFLECTION - SEE DETAILS A50-22, A73-6 AND A73-15.
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- PROVIDE SPRAY FOAM INSULATION WHERE STRUCTURE INTERRUPTS THE CONTINUOUS INSULATION AT EXTERIOR WALLS.



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PROJECT: 21403.000 DATE: 04-17-23
 DRAWN: NB.KLMH CHECKED: DRD
 REVISED:

AGENCY REVIEW SET

CSHOA

AGENCY REVIEW SET

PROJECT: 21403.000 DATE: 04-17-23
 DRAWN: NB.KLMH CHECKED: DRD
 REVISED:

SHEET TITLE

ASSEMBLIES

SHEET

G72

ORIGINAL SHEET SIZE
 36" x 48"

2010 ADA Standards for Accessible Design for Public Accommodations and Commercial Facilities: Title III

503 Passenger Loading Zones
503.1 General. Passenger loading zones shall comply with 503.

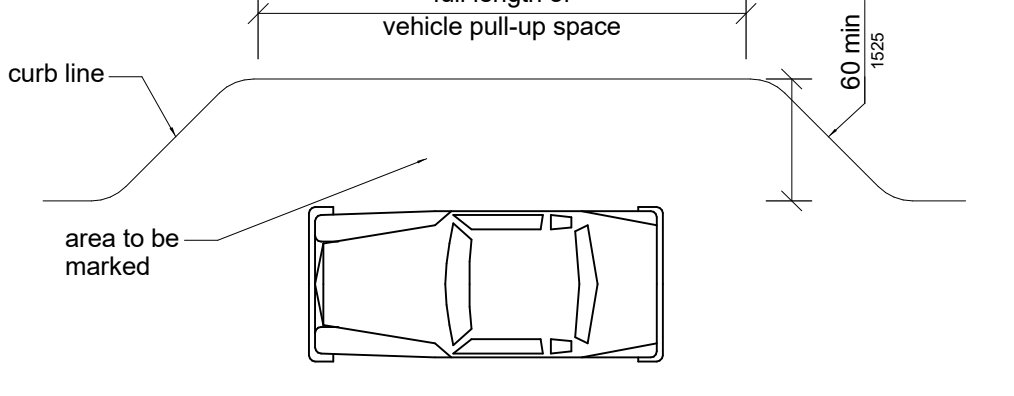
503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisles. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.



503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

504 Stairways
504.1 General. Stairs shall comply with 504.

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.
EXCEPTION: Treads shall be permitted to have a slope not steeper than 1:48.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1/2 inches (38 mm) maximum over the tread below.

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505 Handrails

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.
EXCEPTION: In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.
EXCEPTION: In assembly areas, handrails on ramps shall not be required to be continuous in aisles serving seating.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces.
Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

505.5 Clearances. Clearances between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

EXCEPTIONS:
1. Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.

2. The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch (3.2 mm) for each 1/2 inch (13 mm) of additional handrail perimeter dimension that exceeds 4 inches (100 mm).

505.7 Cross Section. Handrail gripping surfaces shall have a cross section complying with 505.7.1 or 505.7.2.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

EXCEPTIONS:
1. Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.
2. In assembly areas, extensions shall not be required for ramp handrails in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within aisles.
3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

EXCEPTIONS:
1. Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.
2. In assembly areas, extensions shall not be required for ramp handrails in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within aisles.
3. In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.

505.10.4 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

505.10.5 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

505.10.6 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

CHAPTER 6: PLUMBING ELEMENTS & FACILITIES

601 General
601.1 Scope. The provisions of Chapter 6 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

602 Drinking Fountains
602.1 General. Drinking fountains shall comply with 307 and 602.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603 Toilet and Bathing Rooms
603.1 General. Toilet and bathing rooms shall comply with 603.

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

EXCEPTION:
1. Doors to a toilet room or bathing room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space or clearance provided the swing of the door can be reversed to comply with 603.2.3.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments
604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2.

604.3 Clearances. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearances around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

2. In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall. ANSI A117.1 604.5.1 requires an additional vertical grab bar 18 inches (455 mm) minimum in length shall be mounted with the bottom of the bar located 39 inches (990 mm) minimum and 41 inches (1040 mm) maximum above the floor, and with the center line of the bar located 39 inches (990 mm) minimum and 41 inches (1040 mm) maximum from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 42 inches (1065 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet.
2. Where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet, the grab bar shall be 36 inches (915 mm) long, with a minimum of 12 inches (305 mm) to the water closet and 24 inches (610 mm) to the rear wall. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the opposite side of the toilet area.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 209.1.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) minimum in front of the water closet measured to the centerline of the dispenser. The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.
609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

609.9 General. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.
609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

609.9 General. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.
609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

609.9 General. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.
609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

609.9 General. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.
609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

609.9 General. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 5 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) deep. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.8.2.4 Ambulatory Accessible Toilet Compartments. Ambulatory accessible toilet compartments shall comply with 604.8.2.4.

605 Urinals
605.1 General. Urinals shall comply with 605.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) minimum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for a forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks
606.1 General. Lavatories and sinks shall comply with 606.

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

EXCEPTIONS:
1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.
3. Residential requirements not included.

4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be provided for lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.

5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

EXCEPTIONS:
1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

607 Grab Bars
607.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

607.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

607.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

607.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

607.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

607.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lowest grab bar on the back wall of a bathtub shall comply with 607.4.1, 1 or 607.4.2.1.

607.5 Surface Hazards. Grab bars and any other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

607.6 Fittings. Grab bars shall not rotate within their fittings.
607.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

2010 ADA Standards for Accessible Design for Public Accommodations and Commercial Facilities: Title III

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

801 General
801.1 Scope. The provisions of Chapter 8 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

803 Dressing, Fitting, and Locker Rooms
803.1 General. Dressing, fitting, and locker rooms shall comply with 803.

803.2 Turning Space. Turning space complying with 304 shall be provided within the room.

803.3 Door Swing. Doors shall not swing into the room unless a clear floor or ground space complying with 305.3 is provided beyond the arc of the door swing.

803.4 Benches. A bench complying with 903 shall be provided within the room.

803.5 Coat Hooks and Shelves. Coat hooks provided within the room shall be located within one of the reach ranges specified in 308. Shelves shall be 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground.

804 Kitchens and Kitchenettes
804.1 General. Kitchens and kitchenettes shall comply with 804.

804.2 Clearance. Where a pass through kitchen is provided, clearances shall comply with 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with 804.2.2.
EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2.

Advisory 804.2 Clearance. Clearances are measured from the furthest projecting face of all opposing base cabinets, counter tops, appliances, or walls, excluding hardware.

804.2.1 Pass Through Kitchen. In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum. Pass through kitchens shall have two entries.

804.2.2 U-Shaped. In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.

804.3 Kitchen Work Surface. In residential dwelling units required to comply with 809, at least one 30 inches (760 mm) wide minimum section of counter shall provide a kitchen work surface that complies with 804.3.

804.3.1 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for a forward approach shall be provided. The clear floor or ground space shall be centered on the kitchen work surface and shall provide knee and toe clearance complying with 306.
EXCEPTION: Cabinetry shall be permitted under the kitchen work surface provided that all of the following conditions are met:
(a) the cabinetry can be removed without removal or replacement of the kitchen work surface;
(b) the finish floor extends under the cabinetry; and
(c) the walls behind and surrounding the cabinetry are finished.

804.3.2 Height. The kitchen work surface shall be 34 inches (865 mm) maximum above the finish floor or ground.
EXCEPTION: A counter that is adjustable to provide a kitchen work surface at variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted.

804.3.3 Exposed Surfaces. There shall be no sharp or abrasive surfaces under the work surface counters.

804.4 Sinks. Sinks shall comply with 606.

804.5 Storage. At least 50 percent of shelf space in storage facilities shall comply with 811.

804.6 Appliances. Where provided, kitchen appliances shall comply with 804.6.

804.6.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at each kitchen appliance. Clear floor or ground spaces shall be permitted to overlap.

804.6.2 Operable Parts. All appliance controls shall comply with 309.
EXCEPTIONS:
1. Appliance doors and door latching devices shall not be required to comply with 309.4.
2. Bottom-hinged appliance doors, when in the open position, shall not be required to comply with 309.3.

804.6.3 Dishwasher. Clear floor or ground space shall be positioned adjacent to the dishwasher door. The dishwasher door, in the open position, shall not obstruct the clear floor or ground space for the dishwasher or the sink.

804.6.4 Range or Cooktop. Where a forward approach is provided, the clear floor or ground space shall provide knee and toe clearance complying with 306. Where knee and toe space is provided, the underside of the range or cooktop shall be insulated or otherwise configured to prevent burns, abrasions, or electrical shock. The location of controls shall not require reaching across burners.

804.6.5 Oven. Ovens shall comply with 804.6.5.

804.6.5.1 Side-Hinged Door Ovens. Side-hinged door ovens shall have the work surface required by 804.3 positioned adjacent to the latch side of the oven door.

804.6.5.2 Bottom-Hinged Door Ovens. Bottom-hinged door ovens shall have the work surface required by 804.3 positioned adjacent to one side of the door.

804.6.5.3 Controls. Ovens shall have controls on front panels.

804.6.6 Refrigerator/Freezer. Combination refrigerators and freezers shall have at least 50 percent of the freezer space 54 inches (1370 mm) maximum above the finish floor or ground. The clear floor or ground space shall be positioned for a parallel approach to the space dedicated to a refrigerator/freezer with the centerline of the clear floor or ground space offset 24 inches (610 mm) maximum from the centerline of the dedicated space.

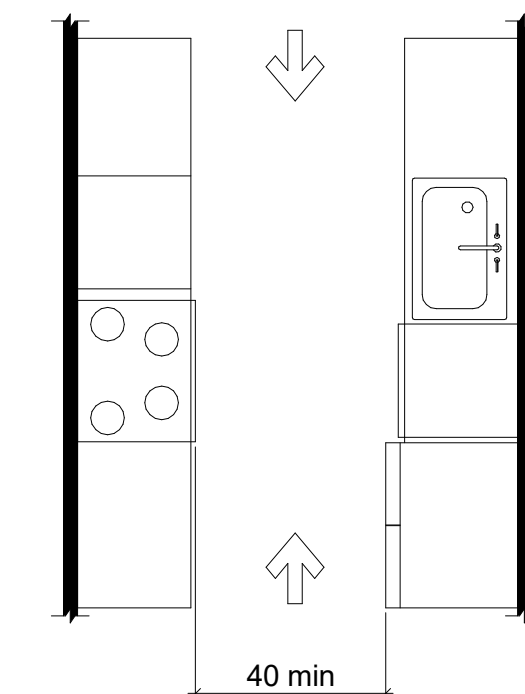


Figure 804.2.1 Pass Through Kitchens

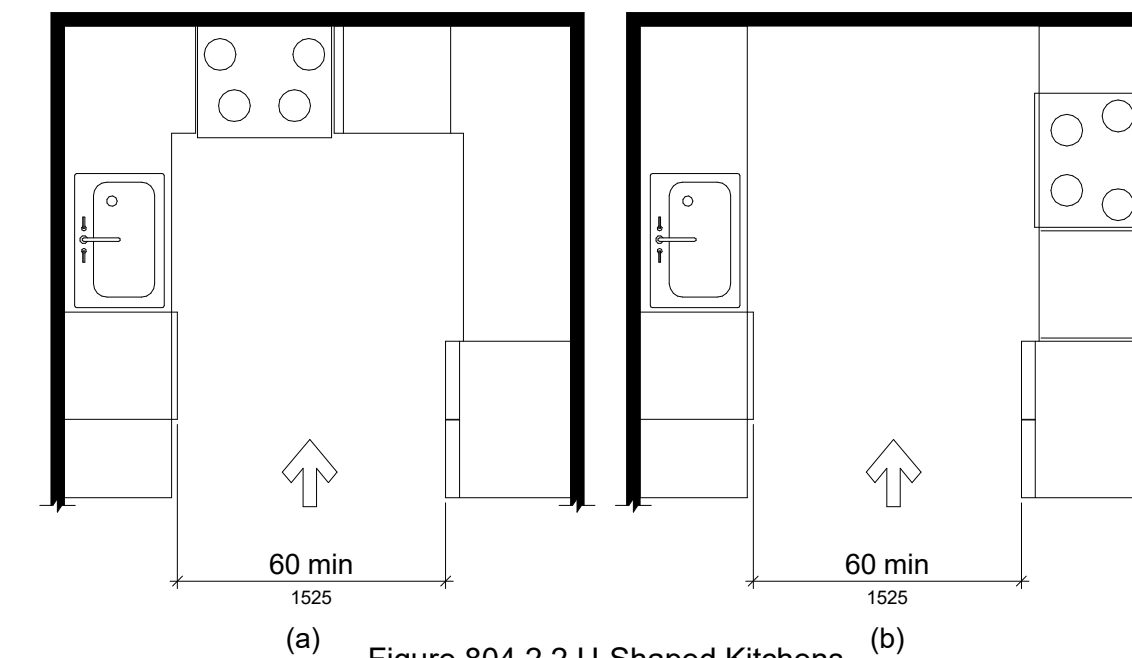


Figure 804.2.2 U-Shaped Kitchens

CHAPTER 9: BUILT-IN ELEMENTS

901 General
901.1 Scope. The provisions of Chapter 9 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

902 Dining Surfaces and Work Surfaces
902.1 General. Dining surfaces and work surfaces shall comply with 902.2 and 902.3.
EXCEPTION: Dining surfaces and work surfaces for children's use shall be permitted to comply with 902.4.

902.2 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided.

902.3 Height. The tops of dining surfaces and work surfaces shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

902.4 Dining Surfaces and Work Surfaces for Children's Use. Accessible dining surfaces and work surfaces for children's use shall comply with 902.4.
EXCEPTION: Dining surfaces and work surfaces that are used primarily by children 5 years and younger shall not be required to comply with 902.4 where a clear floor or ground space complying with 305 positioned for a parallel approach is provided.

902.4.1 Clear Floor or Ground Space. A clear floor space complying with 305 positioned for forward approach shall be provided. Knee and toe clearance complying with 306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted.

902.4.2 Height. The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (760 mm) maximum above the finish floor or ground.

903 Benches
903.1 General. Benches shall comply with 903.

903.2 Clear Floor or Ground Space. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

903.3 Size. Benches shall have seats that are 42 inches (1065 mm) long minimum and 20 inches (510 mm) deep minimum and 24 inches (610 mm) deep maximum.

903.4 Back Support. The bench shall provide for back support or shall be affixed to a wall. Back support shall be 42 inches (1065 mm) long minimum and shall extend from a point 2 inches (51 mm) maximum above the seat surface to a point 18 inches (455 mm) minimum above the seat surface. Back support shall be 2 1/2 inches (64 mm) maximum from the rear edge of the seat measured horizontally.

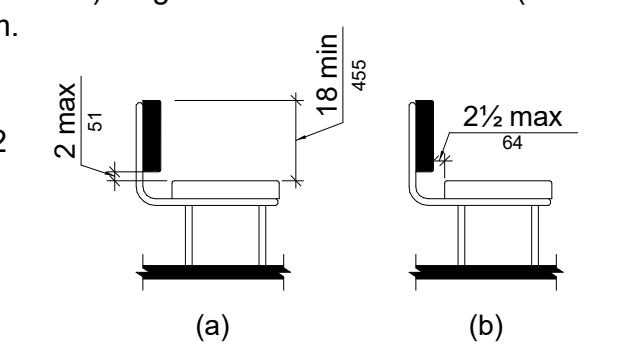


Figure 903.4 Bench Back Support

903.5 Height. The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground.

903.6 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

903.7 Wet Locations. Where installed in wet locations, the surface of the seat shall be slip resistant and shall not accumulate water.

904 Check-Out Aisles and Sales and Service Counters
904.1 General. Check-out aisles and sales and service counters shall comply with the applicable requirements of 904.

904.2 Approach. All portions of counters required to comply with 904 shall be located adjacent to a walking surface complying with 403.

904.3 Check-Out Aisles. Check-out aisles shall comply with 904.3.

904.3.1 Aisle. Aisles shall comply with 403.

904.3.2 Counter. The counter surface height shall be 38 inches (965 mm) maximum above the finish floor or ground. The top of the counter edge protection shall be 2 inches (51 mm) maximum above the top of the counter surface on the aisle side of the check-out counter.

904.3.3 Check Writing Surfaces. Where provided, check writing surfaces shall comply with 902.3.

904.4 Sales and Service Counters. Sales counters and service counters shall comply with 904.4.1 or 904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.
EXCEPTION: In alterations, when the provision of a counter complying with 904.4 would result in a reduction of the number of existing counters at work stations or a reduction of the number of existing mail boxes, the counter shall be permitted to have a portion which is 24 inches (610 mm) long minimum complying with 904.4.1 provided that the required clear floor or ground space is centered on the accessible length of the counter.

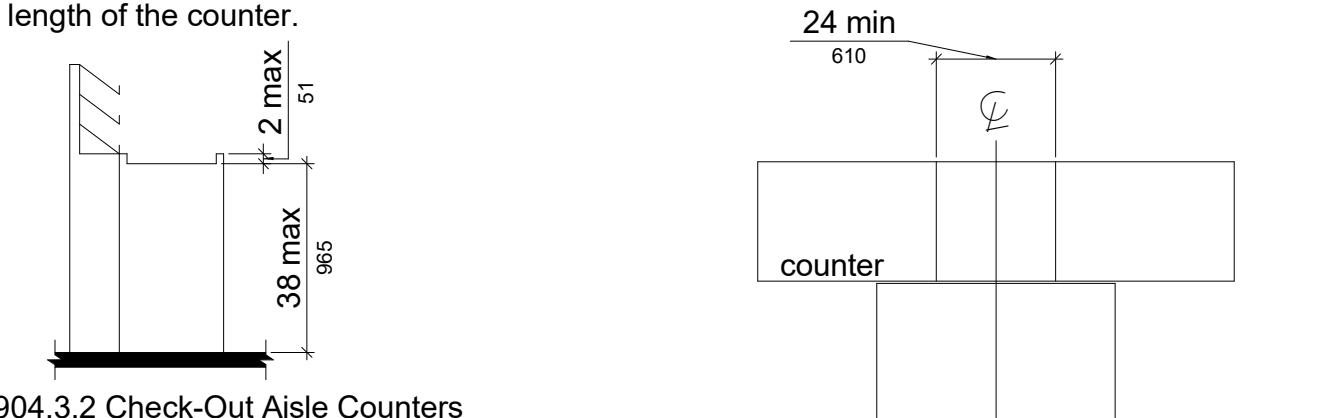


Figure 904.3.2 Check-Out Aisle Counters

904.4.1 Parallel Approach. A portion of the counter surface that is 36 inches (915 mm) long minimum and 36 inches (915 mm) high maximum above the finish floor shall be provided. A clear floor or ground space complying with 305 shall be positioned for a parallel approach adjacent to the 36 inch (915 mm) minimum length of counter.

904.4.2 Forward Approach. A portion of the counter surface that is 30 inches (760 mm) long minimum and 36 inches (915 mm) high maximum shall be provided. Knee and toe space complying with 306 shall be provided under the counter. A clear floor or ground space complying with 305 shall be positioned for a forward approach to the counter.

904.4.3 Self-Service Shelves and Dispensing Devices. Self-service shelves and dispensing devices for tableware, dishware, condiments, food and beverages shall comply with 308.

904.4.4 Tray Slides. The tops of tray slides shall be 28 inches (710 mm) minimum and 34 inches (865 mm) maximum above the finish floor or ground.

904.5 Food Service Lines. Counters in food service lines shall comply with 904.5.

904.6 Security Glazing. Where counters or teller windows have security glazing to separate personnel from the public, a method to facilitate voice communication shall be provided. Telephone handset devices, if provided, shall comply with 704.3.

NOTE: ARCHITECT IS RESPONSIBLE FOR COMPLIANCE WITH 2010 ADA AND ADDITIONAL REQUIREMENTS OF THE PROJECT JURISDICTION. ARCHITECT TO VERIFY COMPLIANCE THROUGHOUT PROJECT AND NOTIFY ACI PROJECT LEAD OF CONFLICTS RELATED TO THE FIXTURE PLAN



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CSHOA

AGENCY REVIEW SET

PROJECT 21403.000	DATE 04-17-23
DRAWN K.L.NB.SC.MH	CHECKED DD/SCUM

REVISED

SHEET TITLE
A.D.A. GENERAL NOTES

SHEET
G75

ORIGINAL SHEET SIZE
36" x 48"

2010 ADA Standards for Accessible Design for Public Accommodations and Commercial Facilities: Title III

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

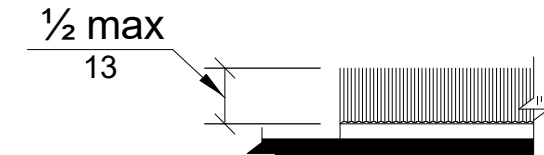


Figure 302.2 Carpet Pile Height

303 Changes in Level

303.1 General

303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

EXCEPTIONS:

1. Areas of sport activity shall not be required to comply with 303.
2. Areas of sport activity shall not be required to comply with 303.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

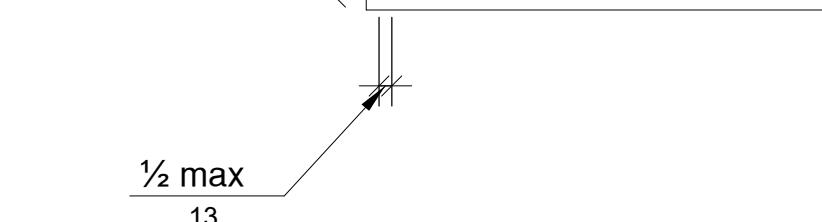


Figure 303.2 Vertical Changes in Level

303.3 Beveled Changes in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

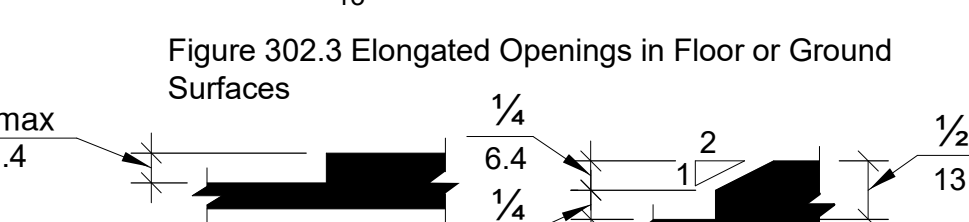


Figure 303.3 Beveled Change in Level

303.4 Ramps

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 305 only at the end of either the base or one arm.

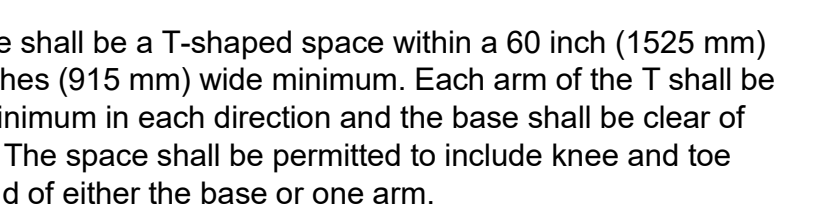


Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size

305.3 Size. The clear floor or ground space shall be 30 inches (762 mm) minimum by 48 inches (1220 mm) minimum.

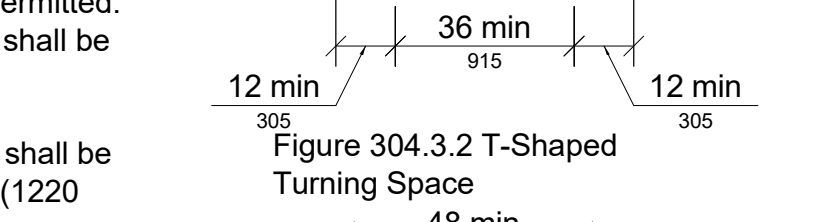


Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 305.

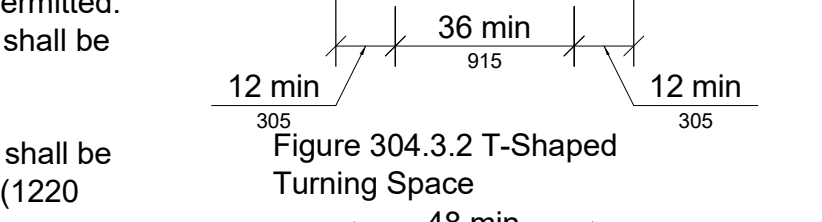


Figure 305.4 Knee and Toe Clearance

305.5 Position

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

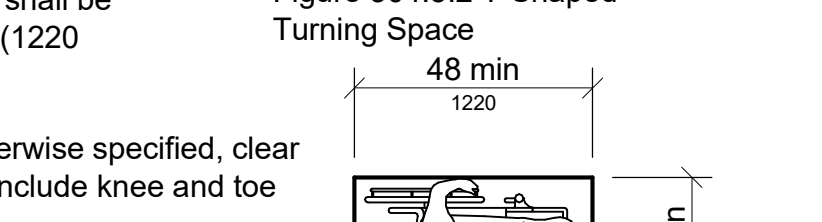


Figure 305.5 Position of Clear Floor or Ground Space

305.6 Approach

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

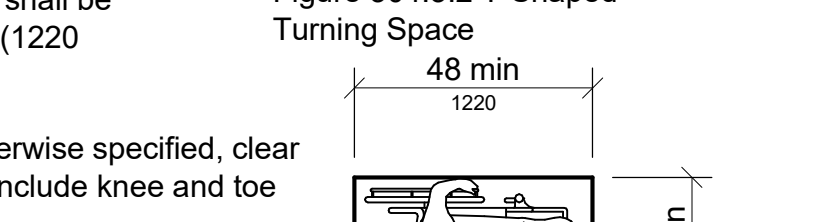


Figure 305.6 Approach

305.7 Maneuvering Clearance

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

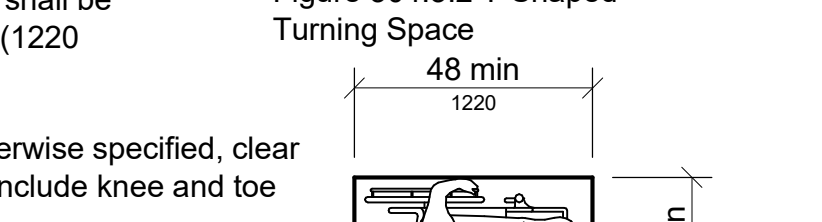


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

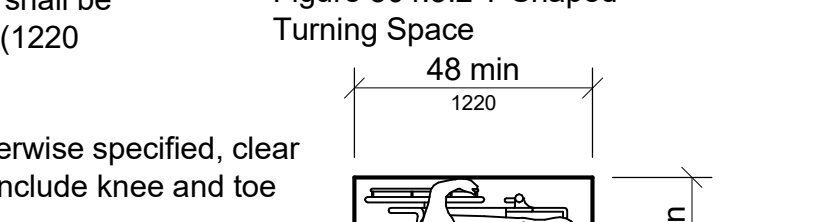


Figure 305.7.2 Parallel Approach

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 305. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

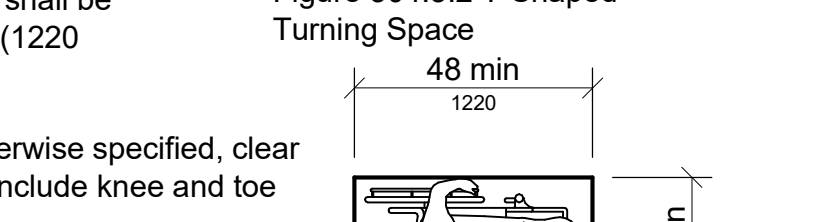


Figure 306.1 Knee and Toe Clearance

306.2 Toe Clearance

306.2 Toe Clearance. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

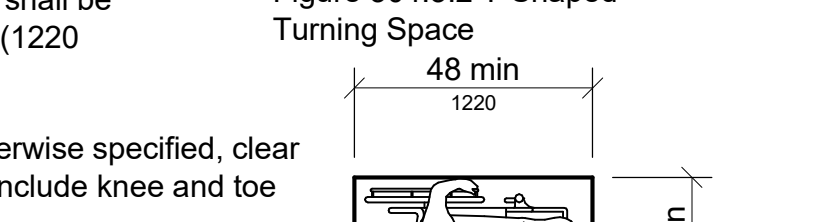


Figure 306.2 Toe Clearance

306.2.2 Maximum Depth

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

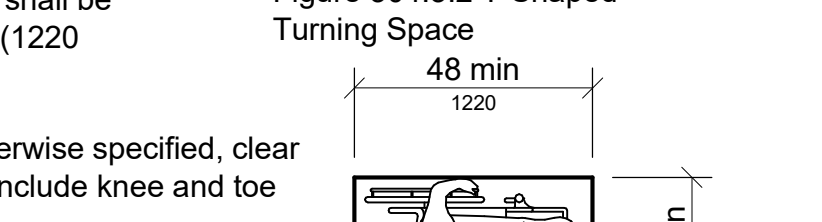


Figure 306.2.2 Maximum Depth

306.2.3 Minimum Required Depth

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

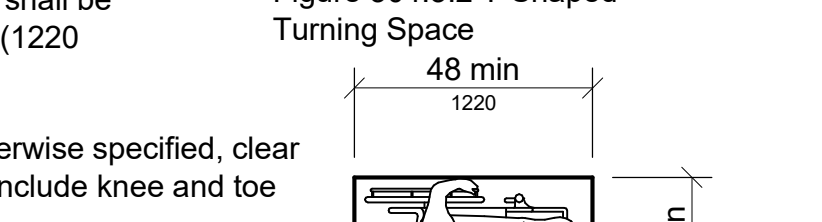


Figure 306.2.3 Minimum Required Depth

306.2.4 Additional Clearance

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

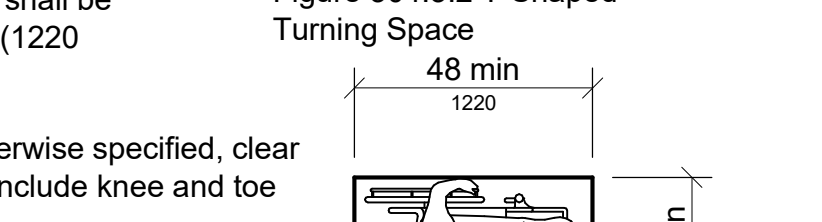


Figure 306.2.4 Additional Clearance

306.2.5 Width

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

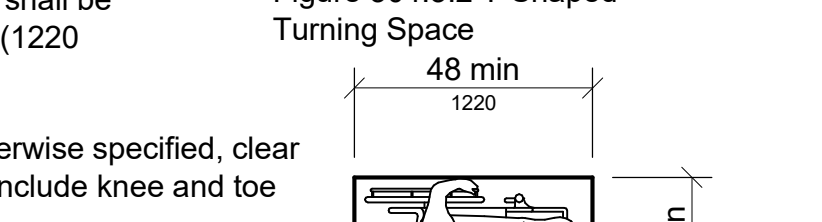


Figure 306.2.5 Width

306.3 Knee Clearance

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

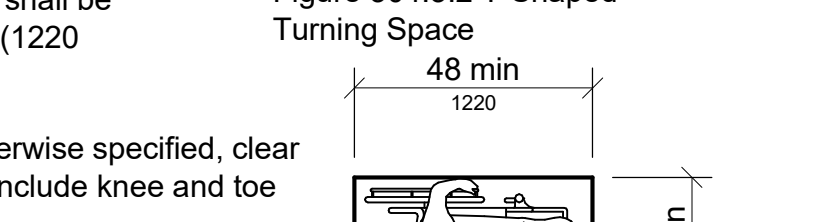


Figure 306.3.1 Knee Clearance

306.3.2 Maximum Depth

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

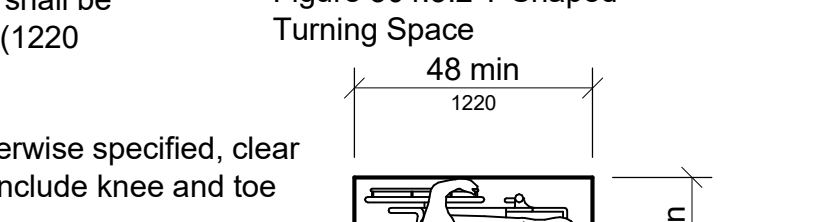


Figure 306.3.2 Maximum Depth

306.3.3 Minimum Required Depth

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

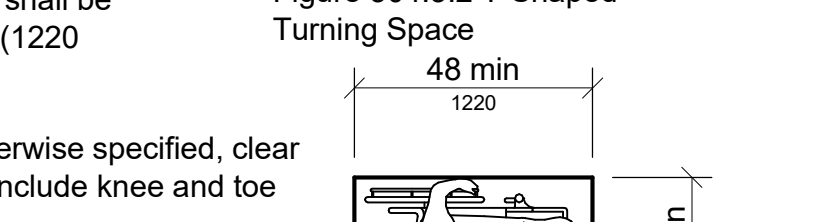


Figure 306.3.3 Minimum Required Depth

306.3.4 Clearance Reduction

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

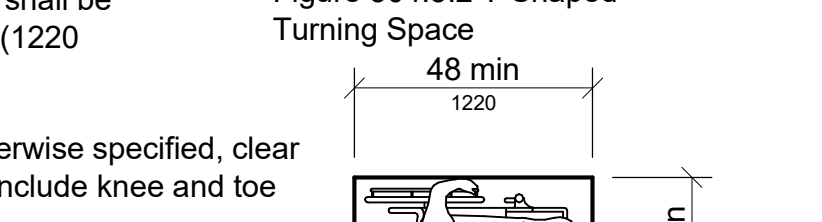


Figure 306.3.4 Clearance Reduction

306.3.5 Width

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

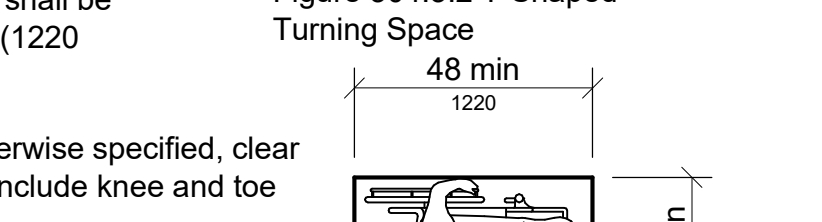


Figure 306.3.5 Width

307 Protruding Objects

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude a maximum of 200 feet (61 m) maximum horizontally into the circulation path. EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

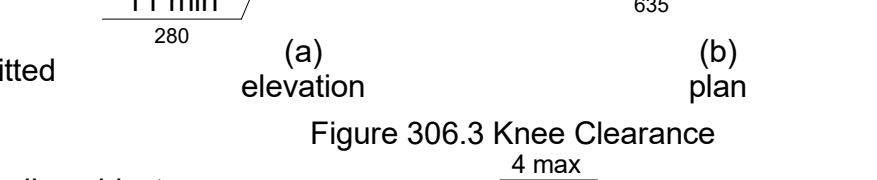


Figure 307.2 Protrusion Limits

307.3 Post-Mounted Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

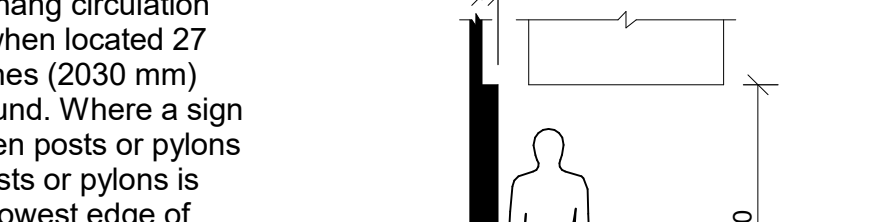


Figure 307.3 Post-Mounted Objects

307.4 Vertical Clearance

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other objects shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

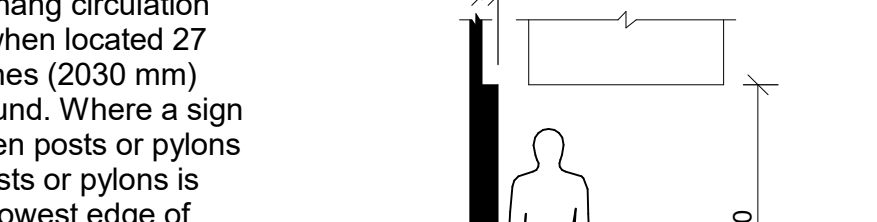


Figure 307.4 Vertical Clearance

307.5 Required Clear Width

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

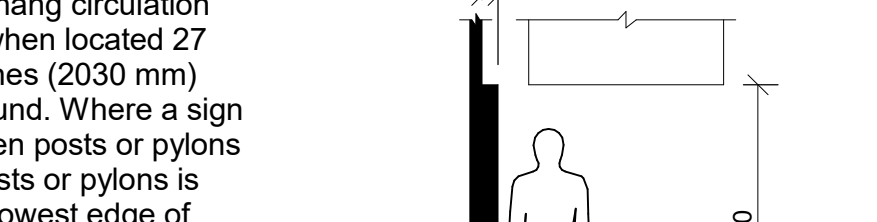


Figure 307.5 Required Clear Width

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

308.2 Forward Reach

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

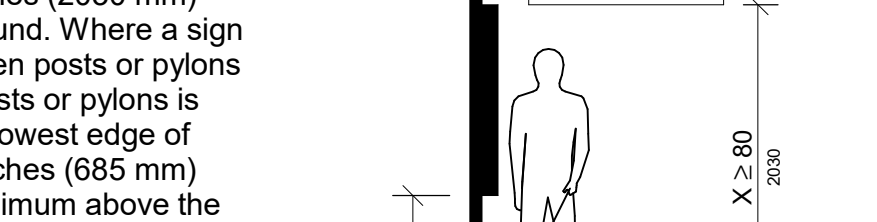


Figure 308.2.1 Unobstructed Forward Reach

308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Forward Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

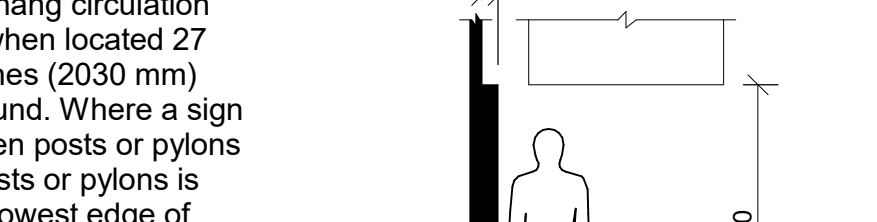


Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

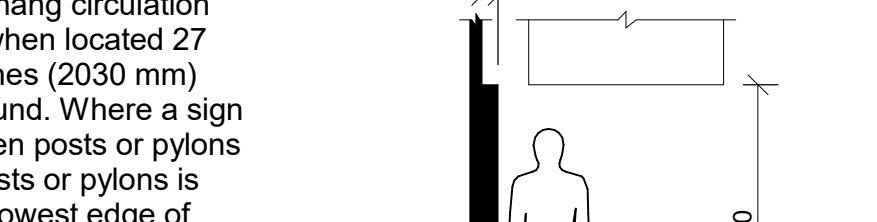


Figure 308.3.1 Unobstructed Side Reach

308.3.2 Obstructed High Side Reach

308.3.2 Obstructed High Side Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

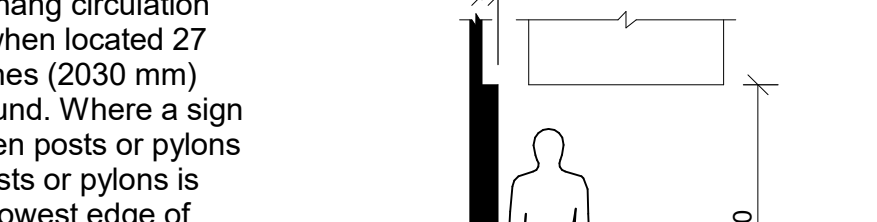


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.1 General. Operable parts shall comply with 309.

309.2 Clear Floor Space

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

EXCEPTION: Gas pump nozzles shall not be required to provide operable parts that have an activating force of 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clear Width. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

403.5.2 Floor or Ground Surface. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.3 Passing Spaces. An accessible route with a clear width less than 80 inches (2030 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or an intersection of two walking surfaces providing a T-shaped space complying with 304.2.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum from the horizontal surface in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

403.5.4 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.5 Recessed Doors and Gates. Manually operated doors and gates shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway, door, sliding door, or folding door projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

403.5.6 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.7 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.8 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.9 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.10 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 50 inches (1270 mm) minimum compliance with 403.5.2 shall not be required.

403.5.11 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than