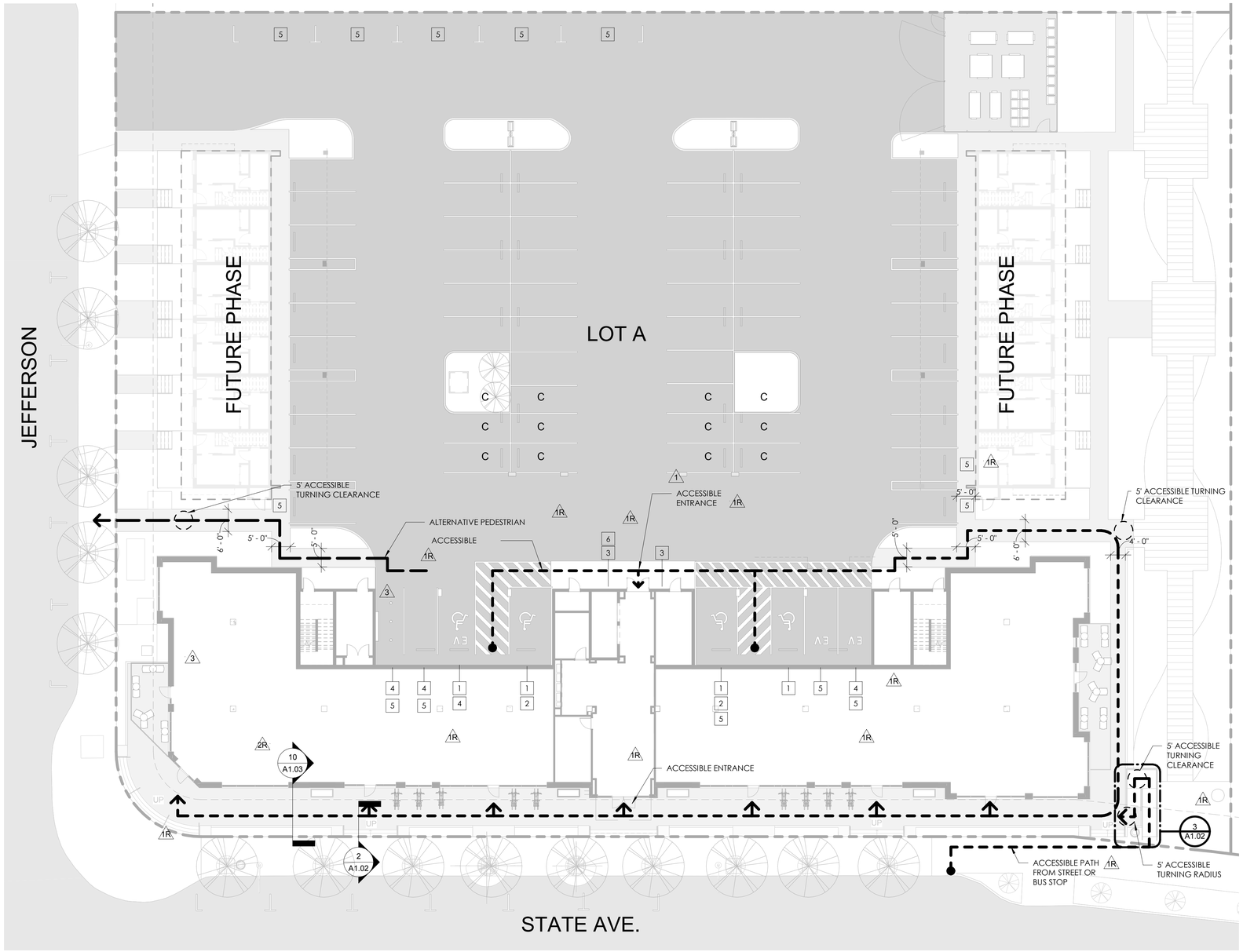
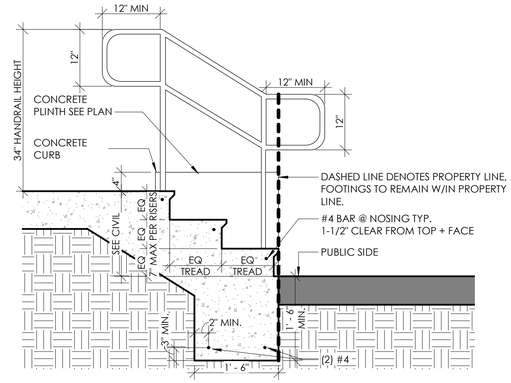
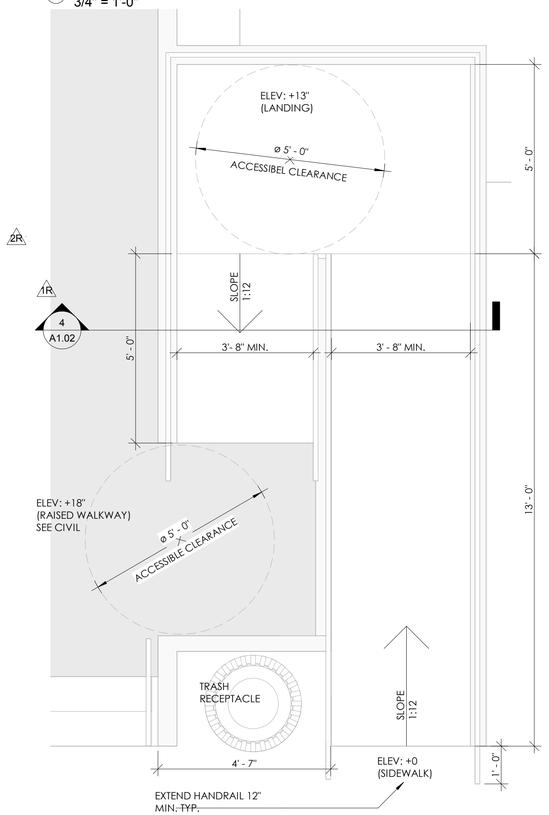


1 SITE PLAN SIGNAGE
1/16" = 1'-0"



2 SECTION-STAIR FOOTING
3/4" = 1'-0"



3 ENLARGED PLAN @ RAMP
1/2" = 1'-0"

SITE SIGNAGE LEGEND

1 ADA PARKING SIGN (WASHINGTON ACCESSIBLE SIGN) - 12" WIDE x 18" HIGH, REFLECTIVE, HEAVY DUTY ALUMINUM, 63 MIL, WITH ROUNDED CORNERS, PRINTED WITH 3M INKS AND MATERIALS. ENGINEER GRADE MINIMUM. WALL MOUNTED. COLOR: GREEN ON WHITE BACKGROUND W/ BLUE ADA SYMBOL.

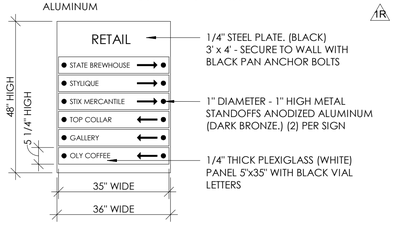
2 "VAN ACCESSIBLE" SIGN AT STALLS MARKED AS "VAN" ON THE SITE PLAN ONLY. LETTERS ARE 2" CLASS 'B' WIDTH TYPICAL. PAINT BLACK, 2COATS ENAMEL.

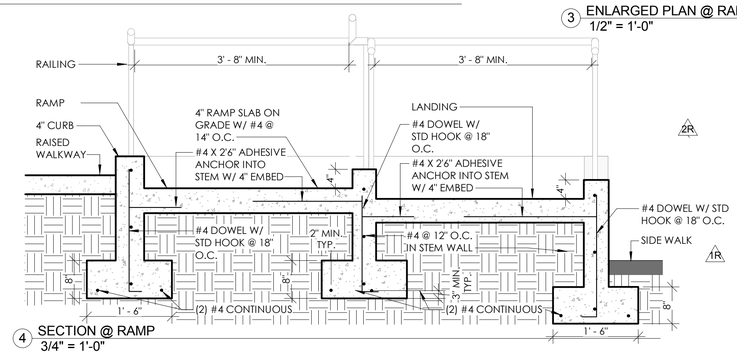
3 NO PARKING, DELIVERY AREA SIGN - 12" WIDE x 18" HIGH, REFLECTIVE, HEAVY DUTY ALUMINUM, 63 MIL, WITH ROUNDED CORNERS, PRINTED WITH 3M INKS AND MATERIALS. ENGINEER GRADE MINIMUM. WALL MOUNTED. COLOR: RED ON WHITE BACKGROUND.

4 RESERVED PARKING, ELECTRIC VEHICLES ONLY - 12" WIDE x 18" HIGH, REFLECTIVE, HEAVY DUTY ALUMINUM, 63 MIL, WITH ROUNDED CORNERS, PRINTED WITH 3M INKS AND MATERIALS. ENGINEER GRADE MINIMUM. WALL MOUNTED. COLOR: GREEN ON WHITE BACKGROUND.

5 RESERVED PARKING, RETAIL PARKING ONLY 12" WIDE x 18" HIGH, REFLECTIVE, HEAVY DUTY ALUMINUM, 63 MIL, WITH ROUNDED CORNERS, PRINTED WITH 3M INKS AND MATERIALS. ENGINEER GRADE MINIMUM. WALL MOUNTED. COLOR: GREEN ON WHITE BACKGROUND.

6 RETAIL - 36" WIDE x 48" HIGH, BLACK VINYL LETTERING RAISED ON WHITE PLEXIGLASS , FASTED TO 1/4" STEEL PLATE MOUNTED TO BRICK. ENGINEER GRADE MINIMUM. WALL MOUNTED. FASTENERS: SLIVER ALUMINUM





4 SECTION @ RAMP
3/4" = 1'-0"

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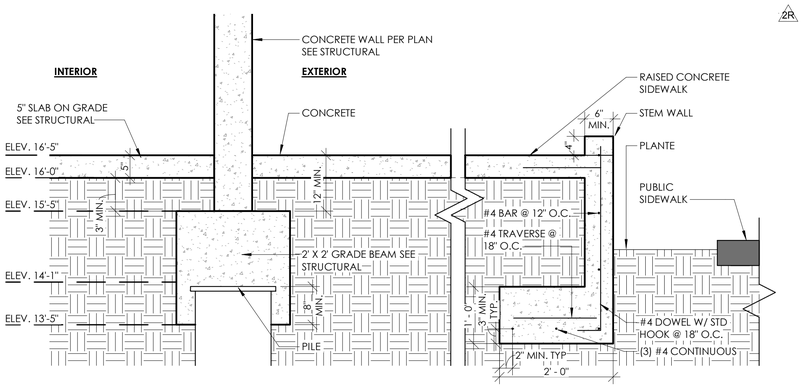
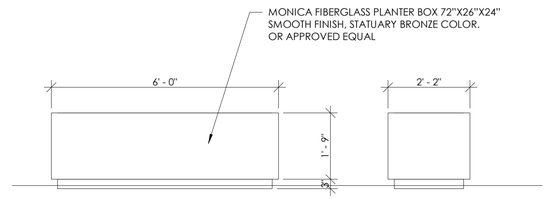
6	REVISION 6. 09-03-2019

SITE SIGNAGE

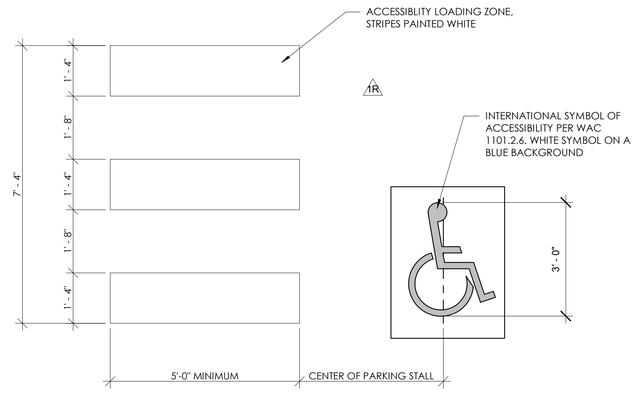
A1.02



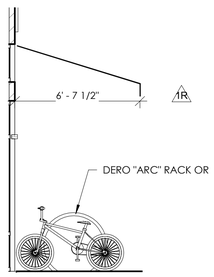
10 EXTERIOR WALL @ RAISED SIDEWALK
3/4" = 1'-0"



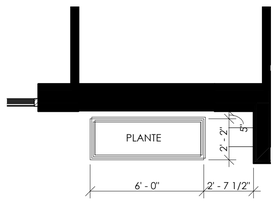
11 SITE PLANTERS
1/2" = 1'-0"



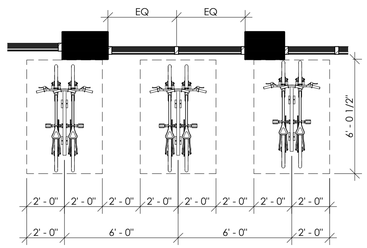
7 SITE PARKING MARKINGS1
1/2" = 1'-0"



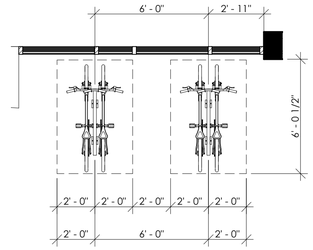
9 SHORT TERM BIKE STORAGE ELEVATION
1/4" = 1'-0"



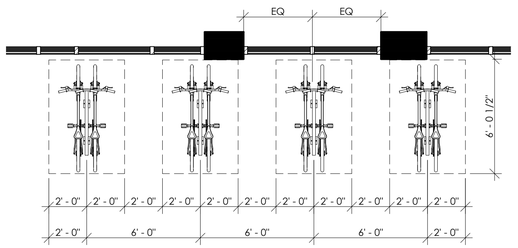
1
8 PLANTER SITE PLAN
1/4" = 1'-0"



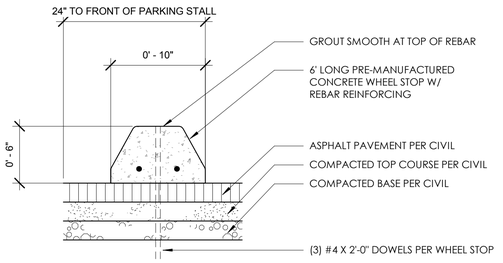
5 SITE PLAN - SHORT TERM BIKE PARKING 3
1/4" = 1'-0"



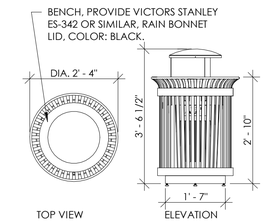
6 SITE PLAN - SHORT TERM BIKE PARKING 2
1/4" = 1'-0"



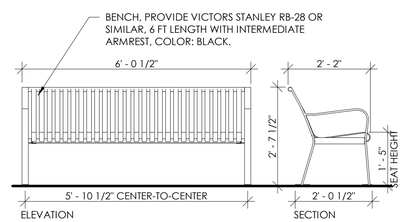
4 SITE PLAN - SHORT TERM BIKE PARKING 1
1/4" = 1'-0"



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



2 TRASH RECEPTACLE
1/2" = 1'-0"



1 SITE BENCH
1/2" = 1'-0"

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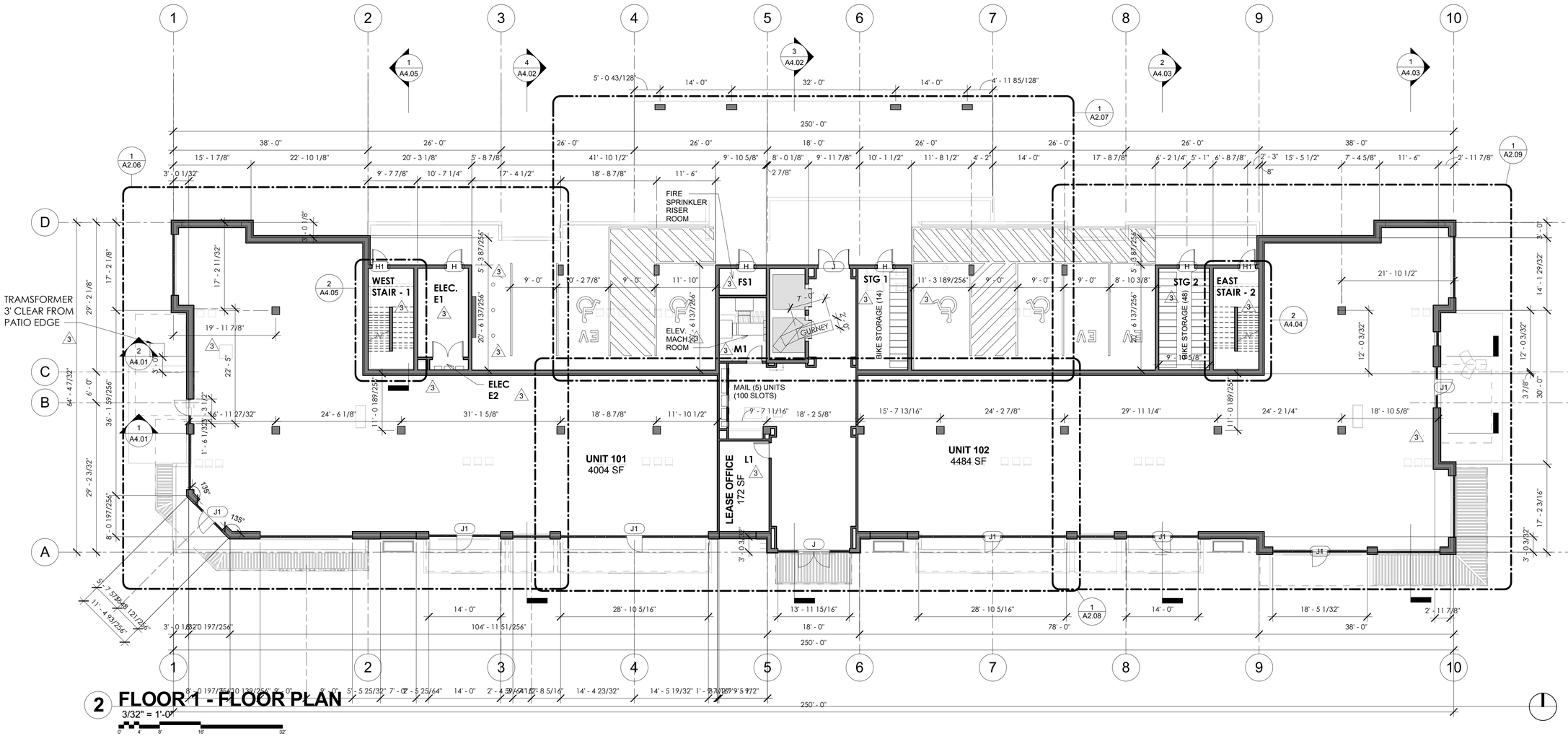
SITE FEATURES

A1.03



2 FLOOR 1 - FLOOR PLAN

3/32" = 1'-0"

0" 4" 8" 16" 32"

GENERAL NOTES

1. SEE SHEET A2.10 TO A2.36 FOR ENLARGED FLOOR PLANS.
2. DIMENSIONS TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. GENERAL CONTRACTOR AND SPRINKLER DESIGNER TO DETERMINE NEED FOR FIRE PUMP PRIOR TO START OF CONSTRUCTION.
4. SEE SHEETS A6.11 & A6.12 FOR AIR BARRIER CALL OUTS AND DETAILS.

PLAN LEGENDS

1 / A101 — SECTION MARKER, NUMBER BELOW INDICATES PAGE WHERE SECTION CAN BE FOUND, NUMBER ABOVE INDICATES THE SECTION LOCATION ON THE PAGE.

1 / A - 209 — DETAIL MARKER, NUMBER BELOW INDICATES PAGE WHERE DETAIL CAN BE FOUND, NUMBER ABOVE INDICATES THE DETAIL LOCATION ON THE PAGE.

A — DOOR MARKER, LETTER INDICATES TYPE OF DOOR. SCHEDULE LOCATED ON PAGE A - 801

FEC — AMBASSADOR- SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 1-1/2" SQUARE TIME OR EQUAL. PROVIDE WITH 2A- 10BC EXTINGUISHER. EVERY 3,000 SQUARE FEET AS LOCATED IN PLANS, NOT TO EXCEED 75 FEET OF TRAVEL.

FIRE PROTECTION REQUIREMENTS FOR STRUCTURAL BUILDING ELEMENTS

REINFORCED CAST IN PLACE CONCRETE COLUMN: 1-1/2" MIN. COVERAGE TO STEEL REINFORCING.

POST TENSION SLAB: MIN. THICKNESS 4.6" REQUIRED. THICKNESS PROVIDED 11" & 13"
COVERAGE MIN. FOR TENDONS
RESTRAINED: 1"
UNRESTRAINED: 2"
NOTE: COVERAGE OVER NONPRESTRESSED REINFORCEMENT = 3/4" MIN.
CONCRETE WALLS: MIN THICKNESS 5.7" REQUIRED. THICKNESS PROVIDED 8"

PER IBC 721 TABLES 722.2.1.(1), 722.2.1.(2), 722.2.1.(3)

1

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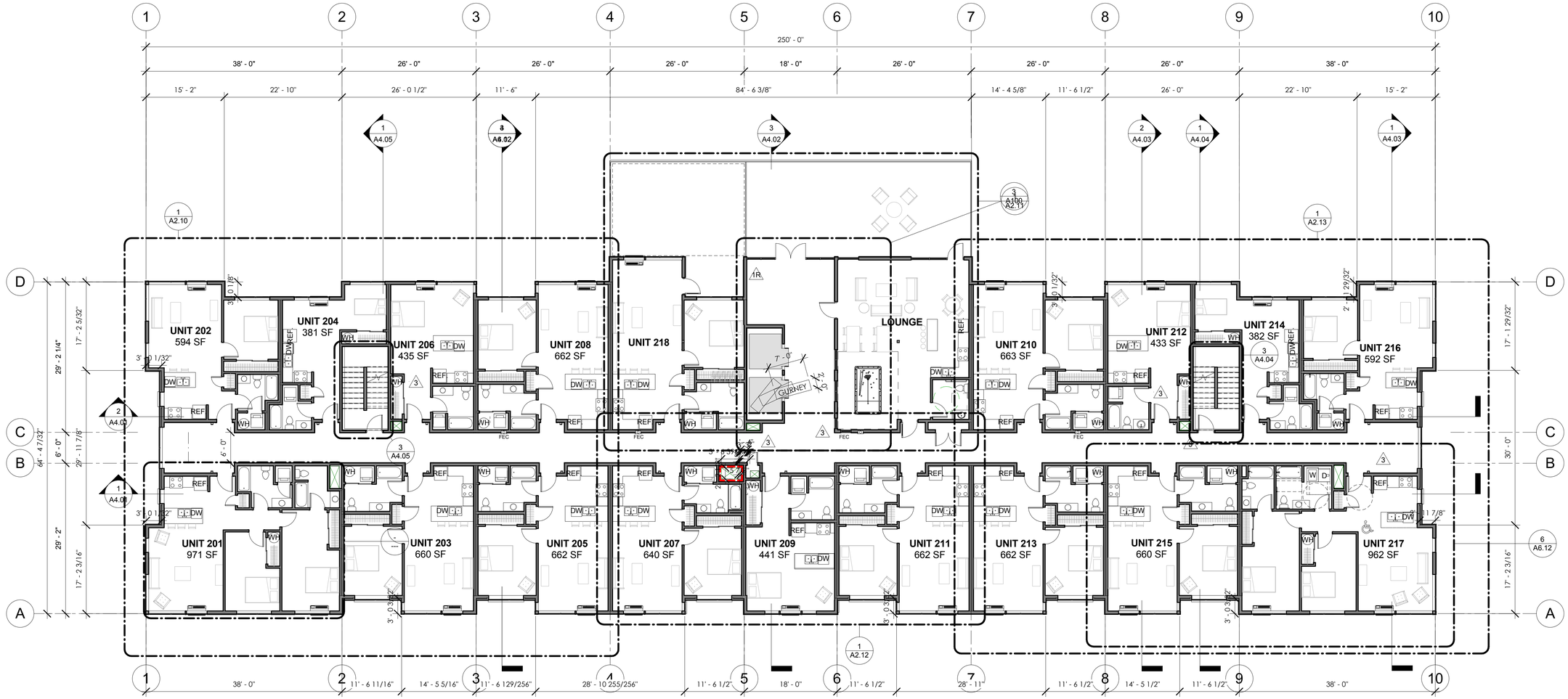
6	REVISION 6. 09-03-2019

FLOOR PLAN - LEVEL 1

A2.01



1 FLOOR 2 - FLOOR PLAN

3/32" = 1'-0"

0" 4" 8" 16" 32"

GENERAL NOTES

1. AT WATER HEATERS PROVIDE MINIMUM CLEARANCE FROM COMBUSTIBLES PER MANUFACTURER RECOMMENDATIONS TYPICAL.

1R

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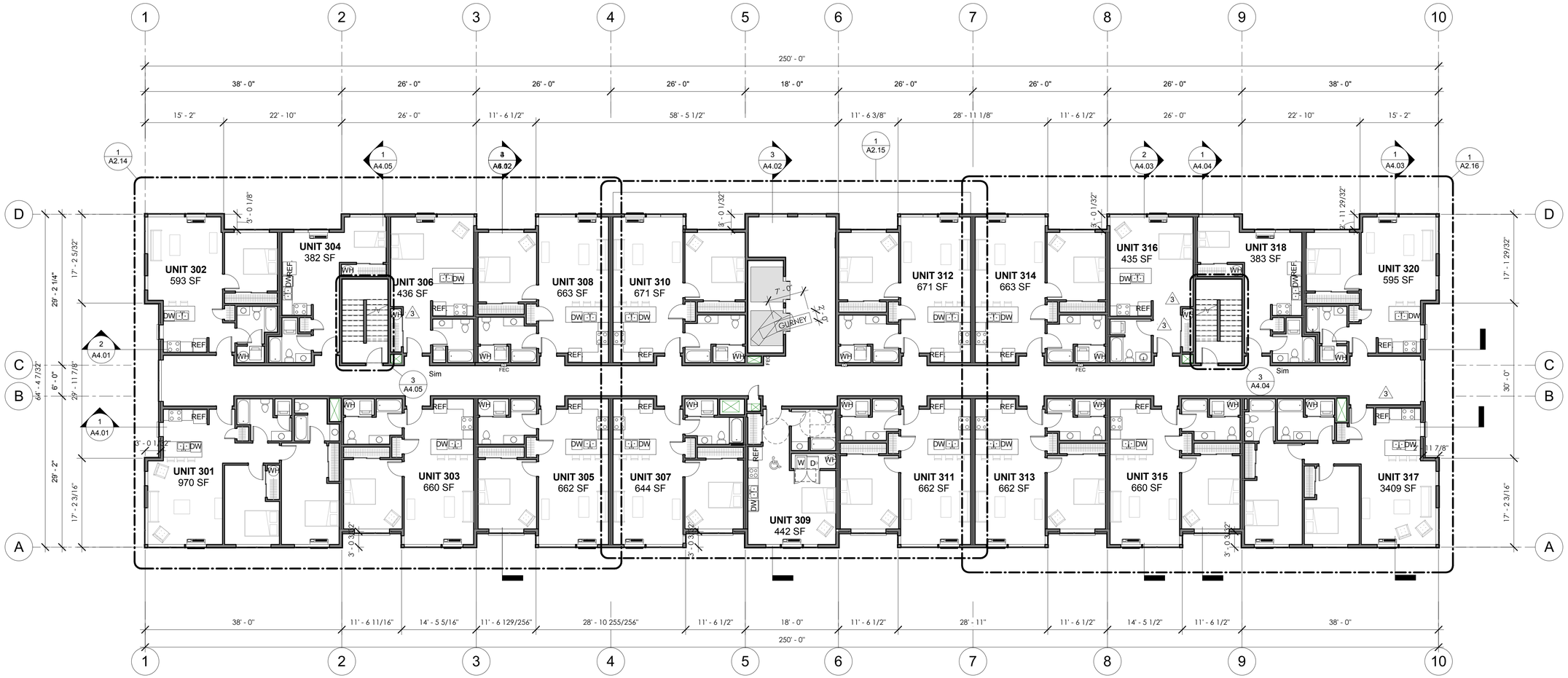
6	REVISION 6. 09-03-2019

FLOOR PLAN - LEVEL 2

A2.02



3 FLOOR 3 - FLOOR PLAN

3/32" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. AT WATER HEATERS PROVIDE MINIMUM CLEARANCE FROM COMBUSTIBLES PER MANUFACTURER RECOMMENDATIONS TYPICAL.

1R

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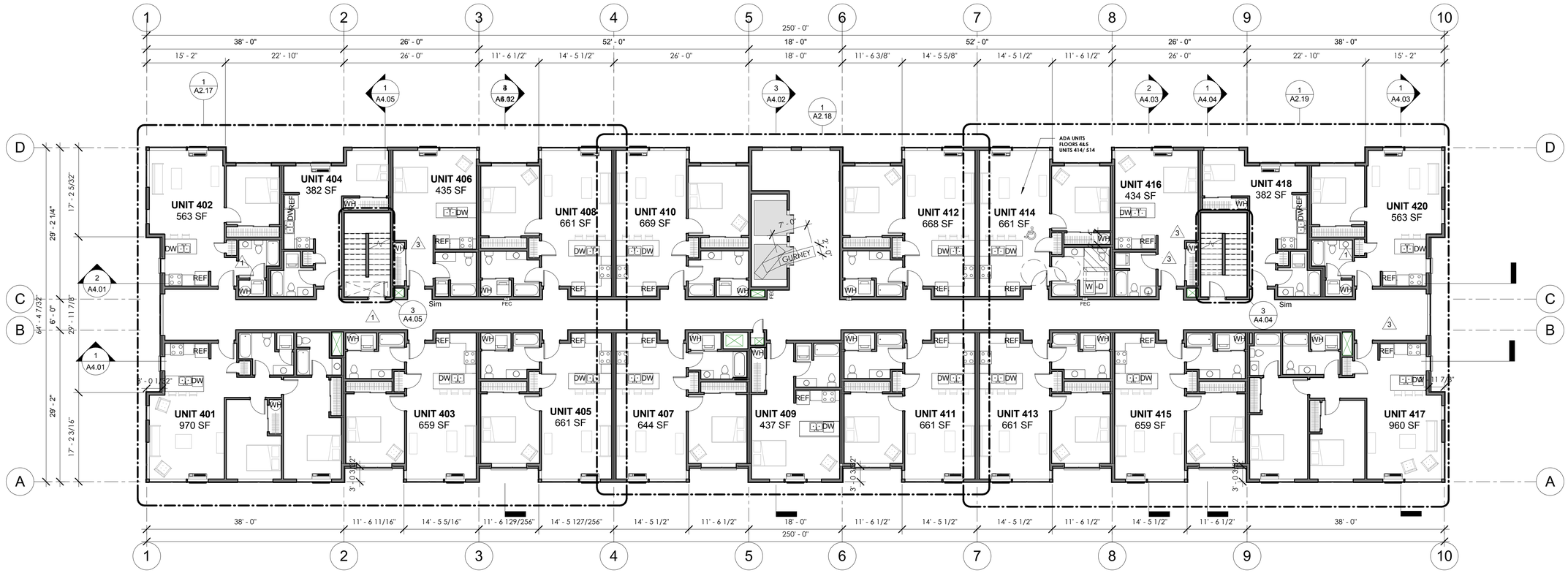
4 REVISION 4. 07-08-2019
5 REVISION 5. 08-02-2019
6 REVISION 6. 09-03-2019

FLOOR PLAN - LEVEL 3

A2.03



1 FLOOR 4 & 5- FLOOR PLAN

3/32" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. AT WATER HEATERS PROVIDE MINIMUM CLEARANCE FROM COMBUSTIBLES PER MANUFACTURER RECOMMENDATIONS TYPICAL.

1R

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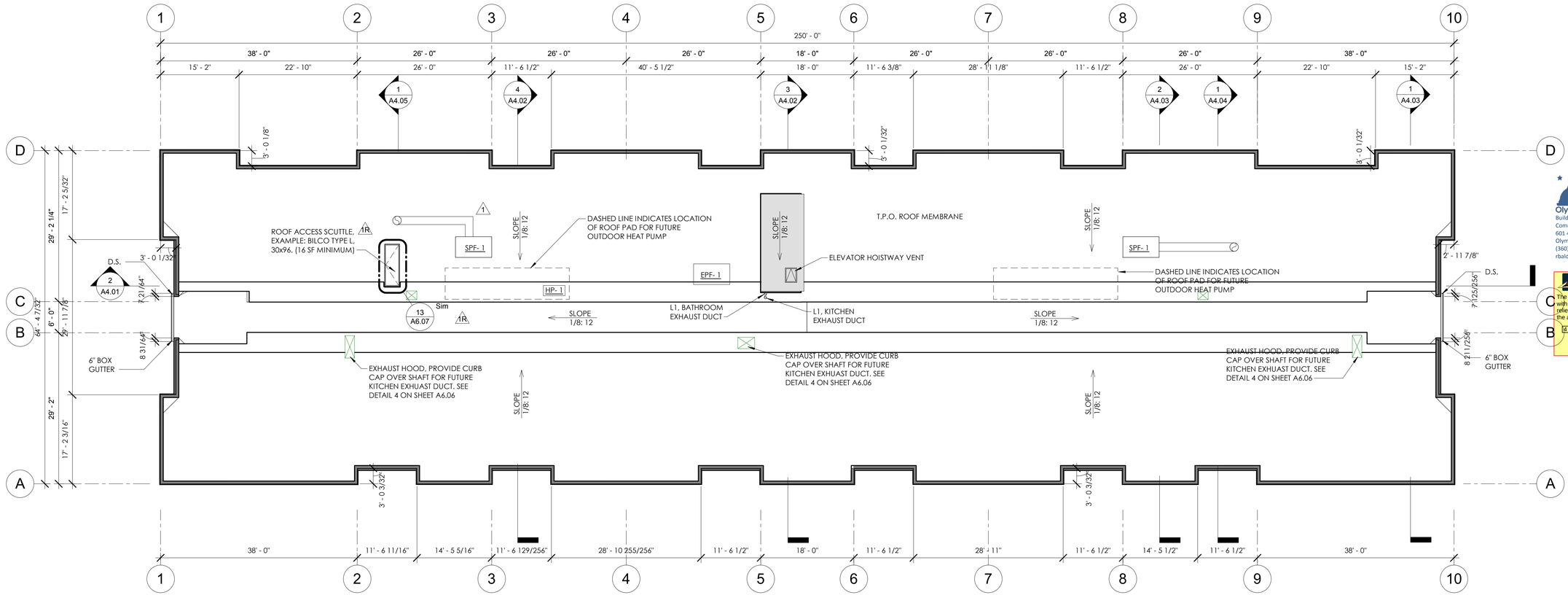
6 REVISION 6. 09-03-2019

FLOOR PLAN - LEVEL 4 - 5

A2.04



1 ROOF PLAN

3/32" = 1'-0"

0' 4' 8' 16' 32'

ROOF DRAINAGE CALCULATIONS

PER 2012 IPC, TABLE 1106.2 AT AN INTENSITY LEVEL OF 3" PER HOUR (100 YEAR)
ALLOWED ROOF AREA PER DOWN SPOUT IS AS FOLLOWS:

2" DIAMETER D.S. WILL HANDLE AN AREA OF:	960 SQ. FT.
3" DIAMETER D.S. WILL HANDLE AN AREA OF:	2,930 SQ. FT.
4" DIAMETER D.S. WILL HANDLE AN AREA OF:	6,130 SQ. FT.
5" DIAMETER D.S. WILL HANDLE AN AREA OF:	11,630 SQ. FT.
6" DIAMETER D.S. WILL HANDLE AN AREA OF:	17,995 SQ. FT.

TOTAL ROOF AREA = 15,077.28 SQ. FEET
TOTAL PATIO AND COMMON AREA = 1,627.88 SQ. FEET

DOWNSPOUTS PLACED TO SPLIT ROOF EQUALLY BETWEEN THE WEST AND THE EAST.
15,077.28 SQ. FEET/2 = 7,538.64 SQ. FEET @ WEST, 7,538.64 SQ. FEET @ EAST

WEST ROOF PROVIDED WITH (1) 5" DOWNSPOUT
7,538.64 SQ. FEET ACTUAL < 11,630 SQ. FEET ALLOWED = OK

EAST ROOF PROVIDED WITH (1) 4" DOWNSPOUT
7,538.64 SQ. FEET ACTUAL < 11,630 SQ. FEET ALLOWED = OK

PATIO AND COMMON ROOF PROVIDED WITH (1) 3" DOWNSPOUT
1,627.88 SQ. FEET ACTUAL < 2,930 SQ. FEET ALLOWED = OK

ROOF AREA:		
	NORTH	6,599.68 S.F.
	SOUTH	6,662.61 S.F.
	EAST GUTTER	907.80 S.F.
	WEST GUTTER	907.19 S.F.
	PATIO	1,276.32 S.F.
	COMMON AREA	351.56 S.F.

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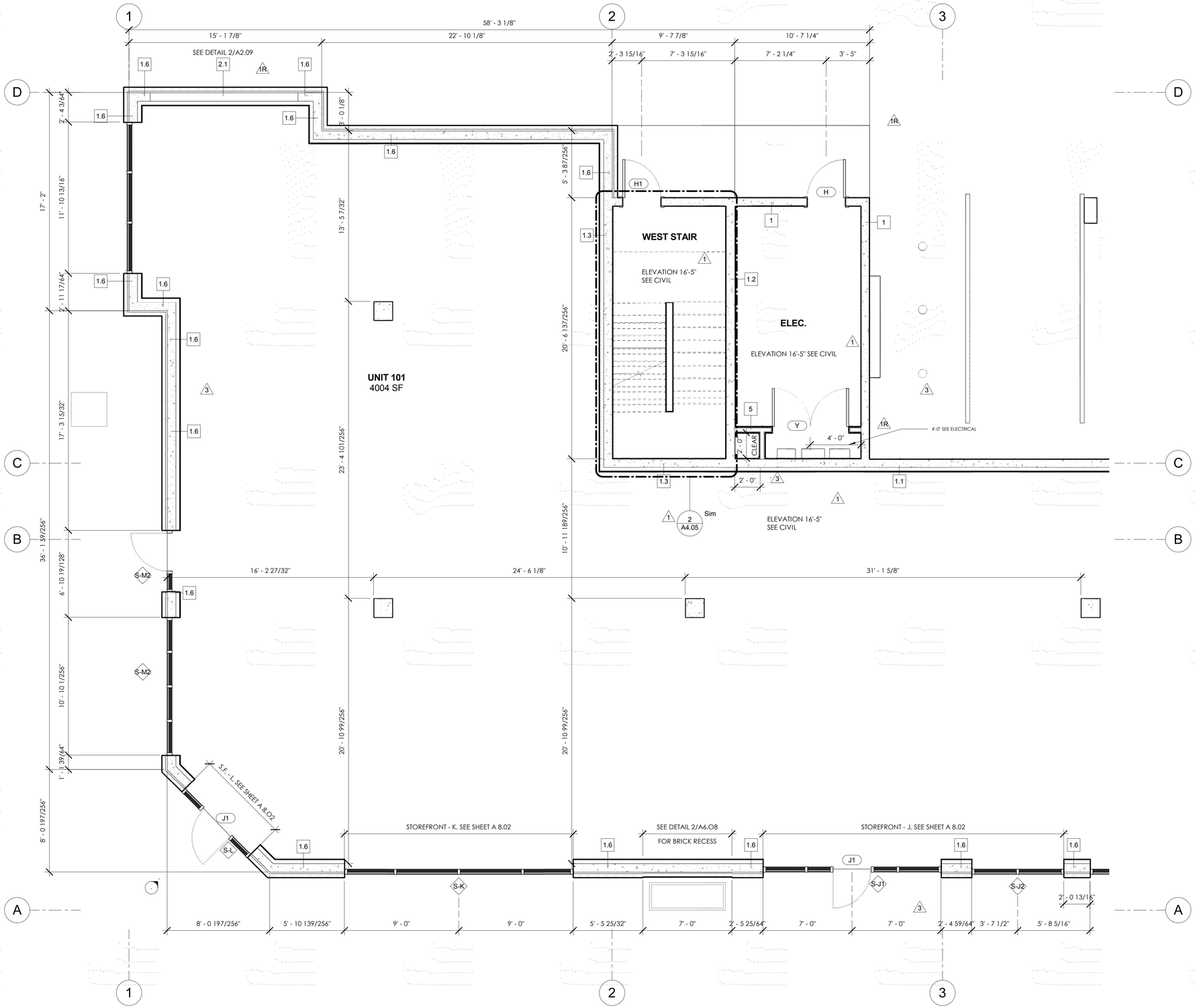
6	REVISION 6. 09-03-2019

ROOF PLAN

A2.05



PARTIAL FLOOR 1 - ENLARGED A

SCALE: 1/4" = 1'-0"

0' 4' 8' 16' 32'

KEY PLAN

GENERAL NOTES

1. DIMENSIONS TO THE FACE OF STUDS UNLESS OTHERWISE NOTED.
2. SEE MECHANICAL FOR FIXTURE TYPE SCHEDULE.
3. ALL RESTROOMS IN THE B UNITS SHALL COMPLY WITH OPTION A OR B PER A117.2009-1004.11.3

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PLAN LEGEND

- SECTION MARKER, NUMBER BELOW INDICATES PAGE WHERE SECTION CAN BE FOUND, NUMBER ABOVE INDICATES THE SECTION LOCATION ON THE PAGE.
- DETAIL MARKER, NUMBER BELOW INDICATES PAGE WHERE DETAIL CAN BE FOUND, NUMBER ABOVE INDICATES THE DETAIL LOCATION ON THE PAGE.
- WALL TYPE CALL OUT, SEE DETAILS ON SHEET A 6.01
- DOOR CALL OUT, SEE SCHEDULE ON SHEET A 6.02
- STOREFRONT CALL OUT, SEE SCHEDULE ON SHEET A 8.02
- WINDOW CALL OUT, SEE SCHEDULE ON SHEET A 6.03
- DASHED LINE OF ACCESSIBLE MANEUVERING OF CLEARANCES. CIRCLE IS 5 FT DIAMETER. RECTANGLE IS 30"x48" OR 60"X48".
- WATER HEATER PROVIDE. MANUFACTURERS MINIMUM CLEARANCES, TYPICAL.
- BIKE STORAGE

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

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09/09/2019

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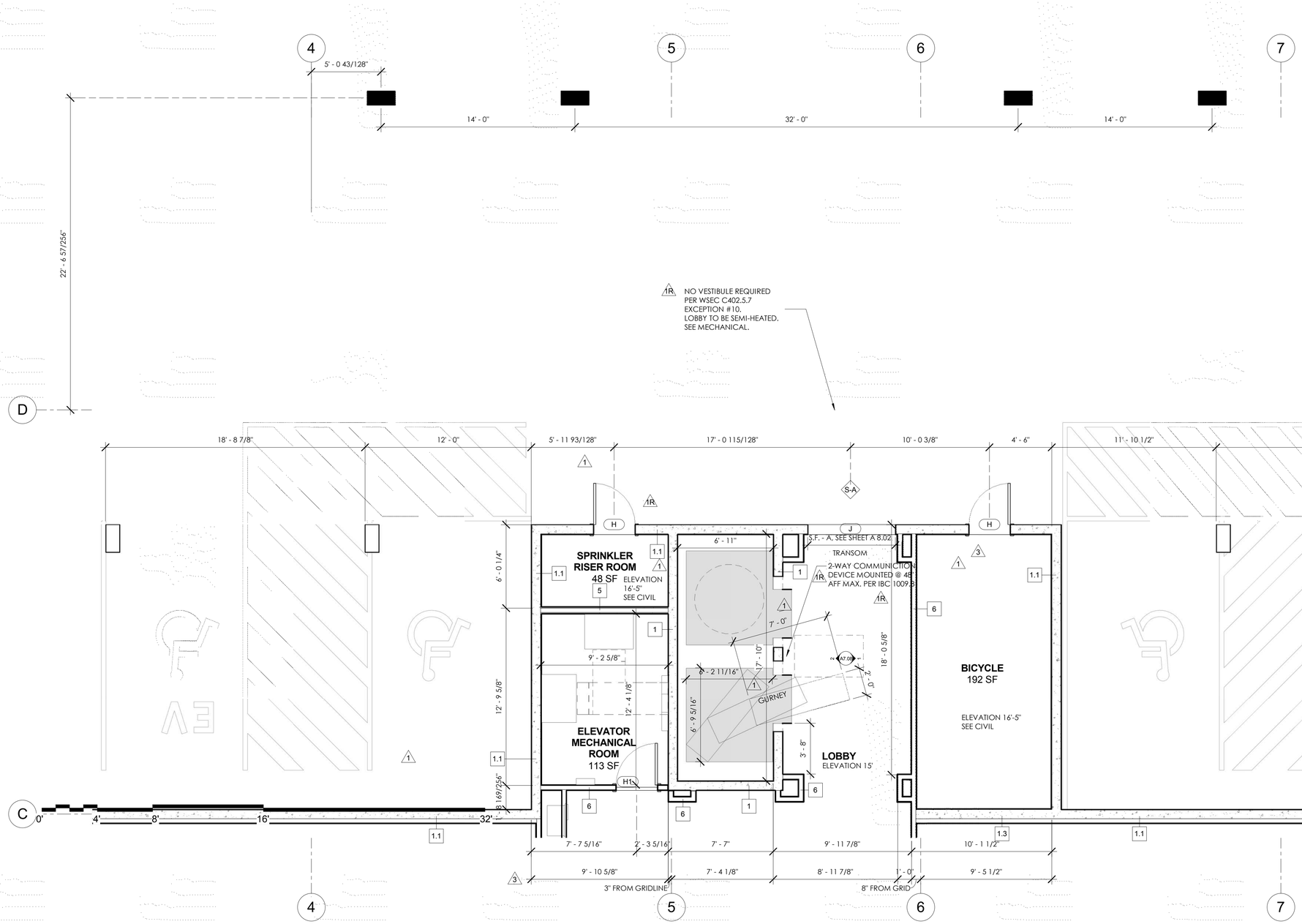
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

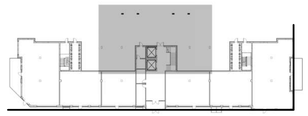
ENLARGED PLANS - FLOOR 1A

A2.06



1 PARTIAL FLOOR 1 - ENLARGED B

1/4" = 1'-0"



KEY PLAN

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4295 REGISTERED ARCHITECT
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STATE OF WASHINGTON

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Community Planning & Development Department
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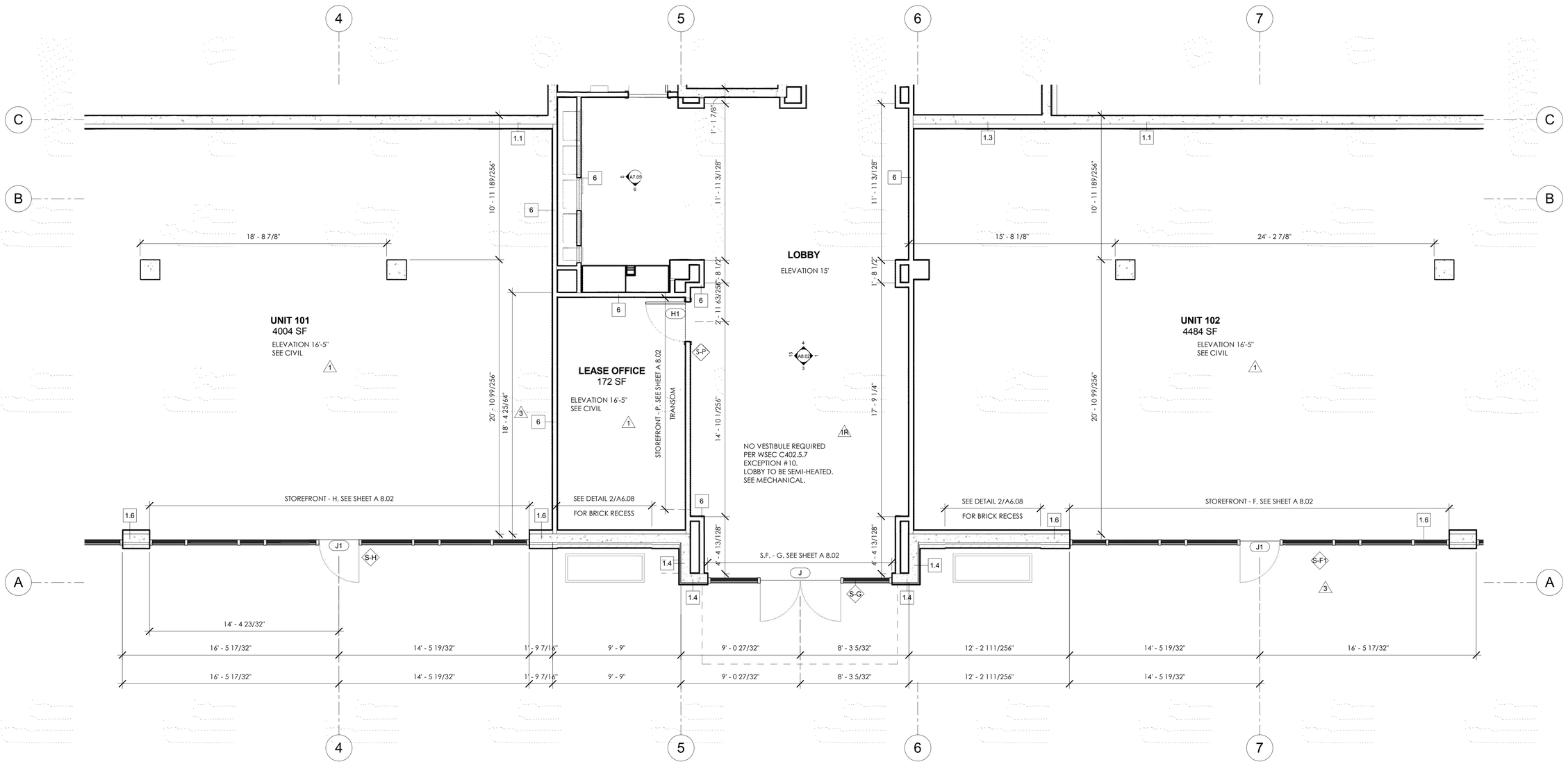
ENLARGED PLANS - FLOOR 1B

A2.07



1 PARTIAL FLOOR 1 - ENLARGED C

1/4" = 1'-0"

0' 4' 8' 16' 32'

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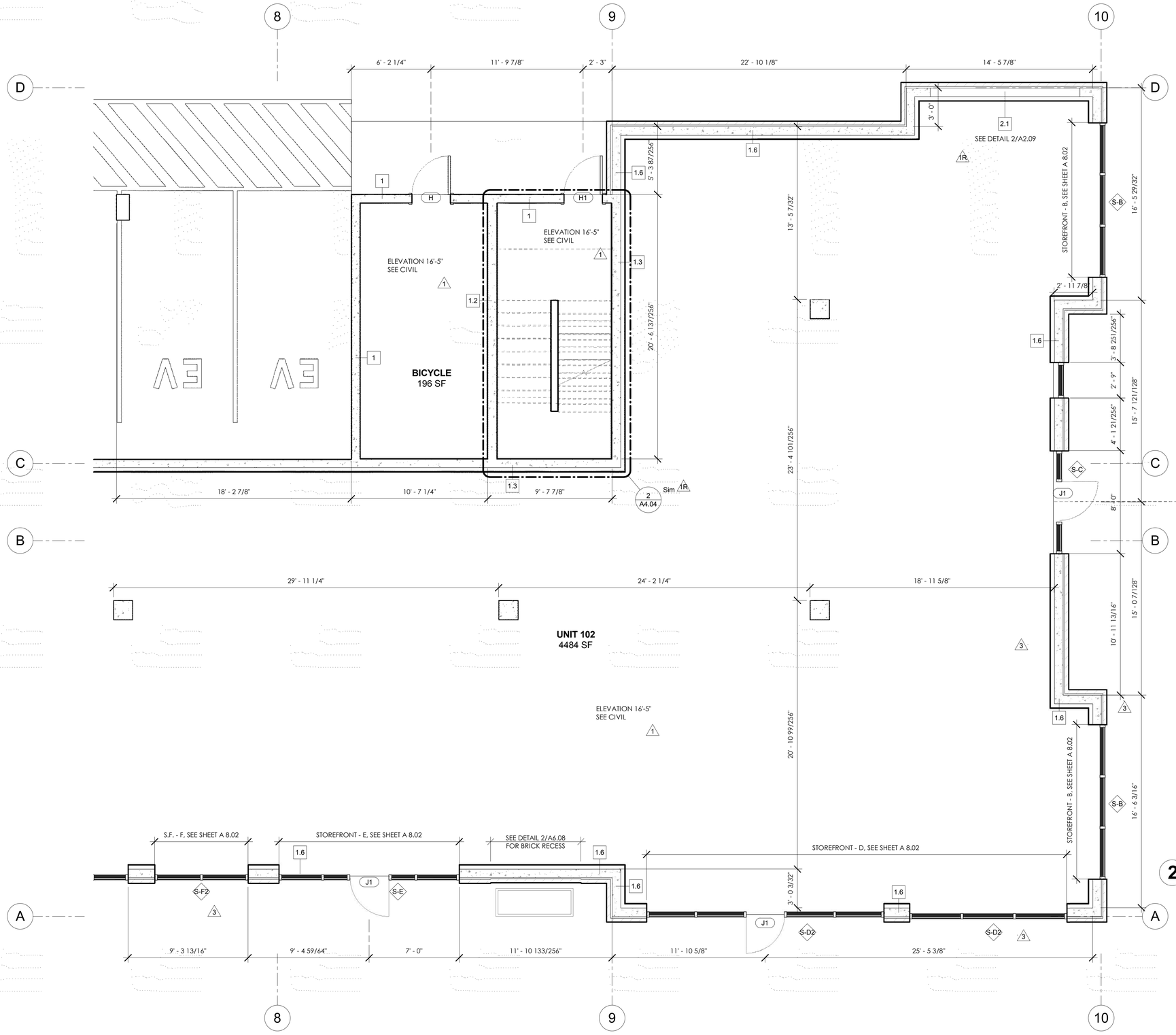
ENLARGED PLANS - FLOOR 1C

A2.08

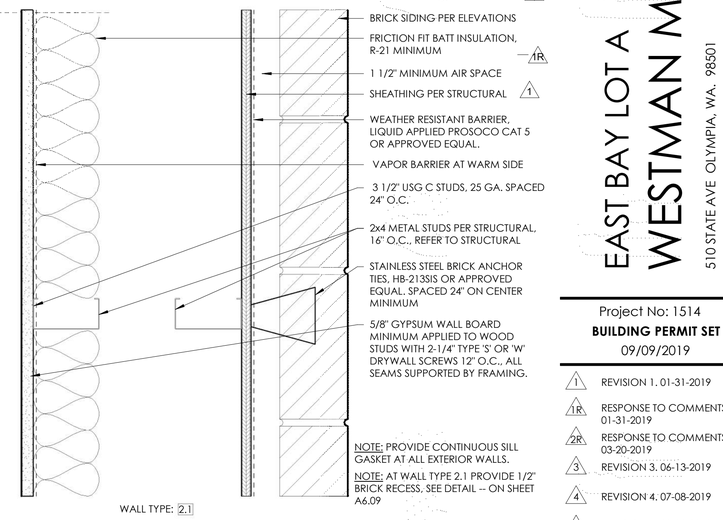


1 PARTIAL FLOOR 1 - ENLARGED D

1/4" = 1'-0"

0' 4' 8' 16' 32'

KEY PLAN



NOTE: PROVIDE CONTINUOUS SILL GASKET AT ALL EXTERIOR WALLS.

NOTE: AT WALL TYPE 2.1 PROVIDE 1/2" BRICK RECESS, SEE DETAIL -- ON SHEET A6.09

WALL TYPE: 2.1

2 EXTERIOR MASONRY WALL

3" = 1'-0"

NOTE: SEE ADDITIONAL WALL ASSEMBLY DETAILS ON SHEET A6.01

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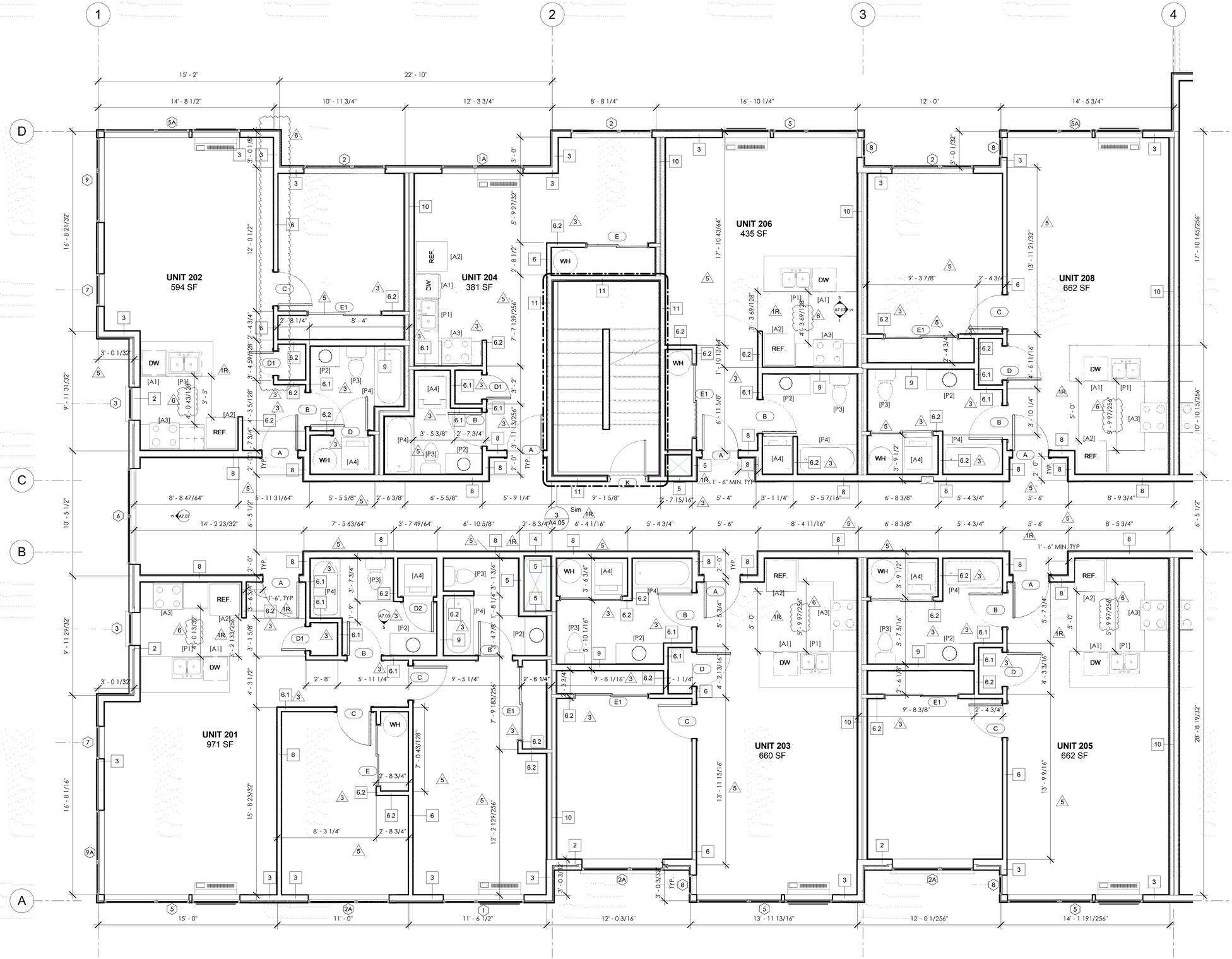
ENLARGED PLANS - FLOOR 1D

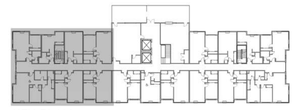
A2.09



1 **PARTIAL FLOOR 2 - ENLARGED A**

1/4" = 1'-0"

0' 4' 8' 16' 32'



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GENERAL NOTES

1. PROVIDE DRAFT STOPPING IN FLOORING PER IBC 718.3, TYPICAL ALL FLOORS.

1R

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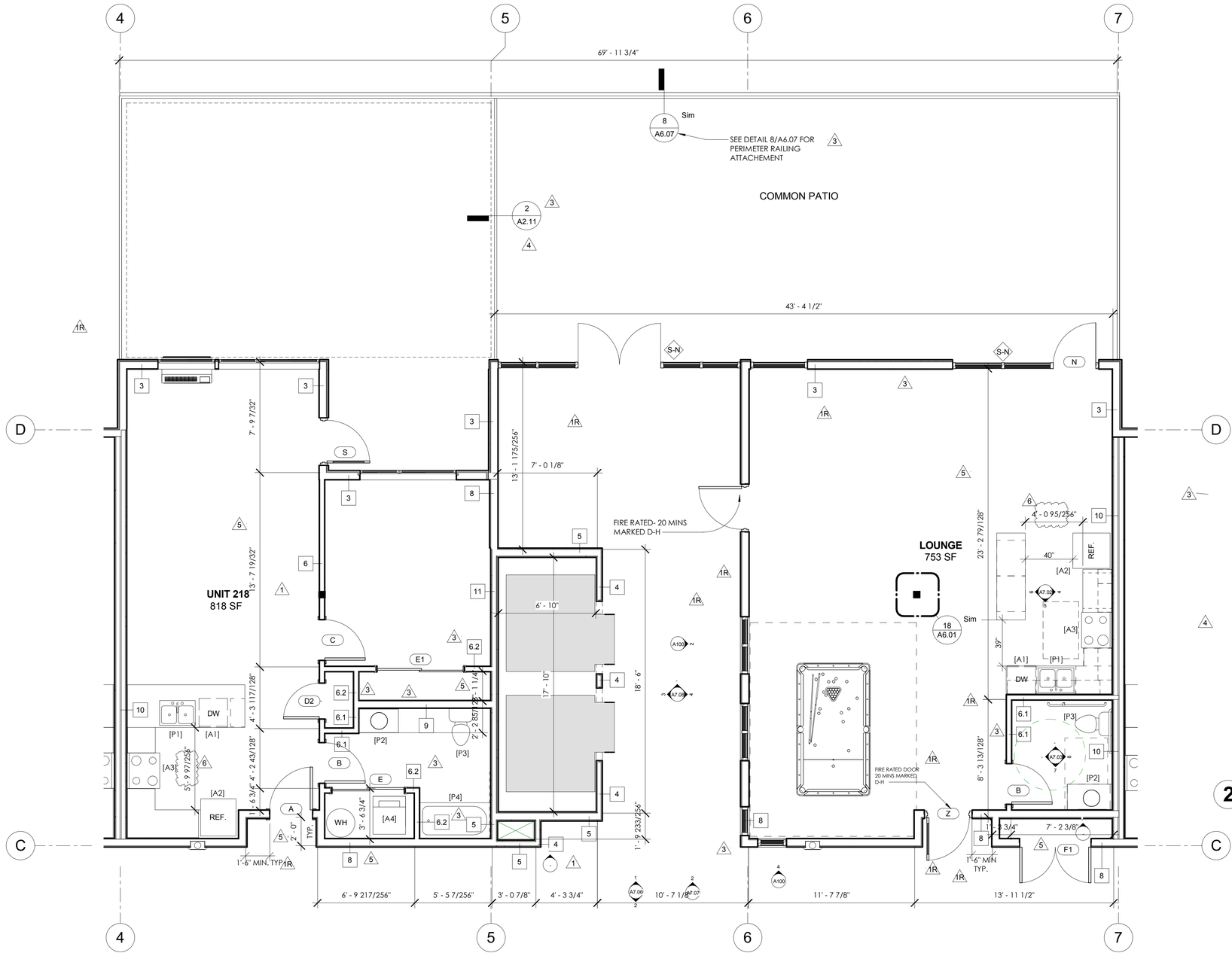
ENLARGED PLANS - FLOOR 2A

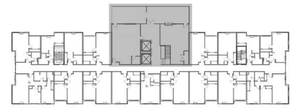
A2.10



1 PARTIAL FLOOR 2 - ENLARGED B

1/4" = 1'-0"

0' 4' 8' 16' 32'



KEY PLAN

2 RAILING CONDITION @ MIDDLE OF PT SLAB

3" = 1'-0"

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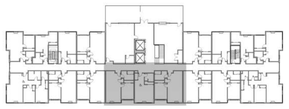
ENLARGED PLANS - FLOOR 2B

A2.11



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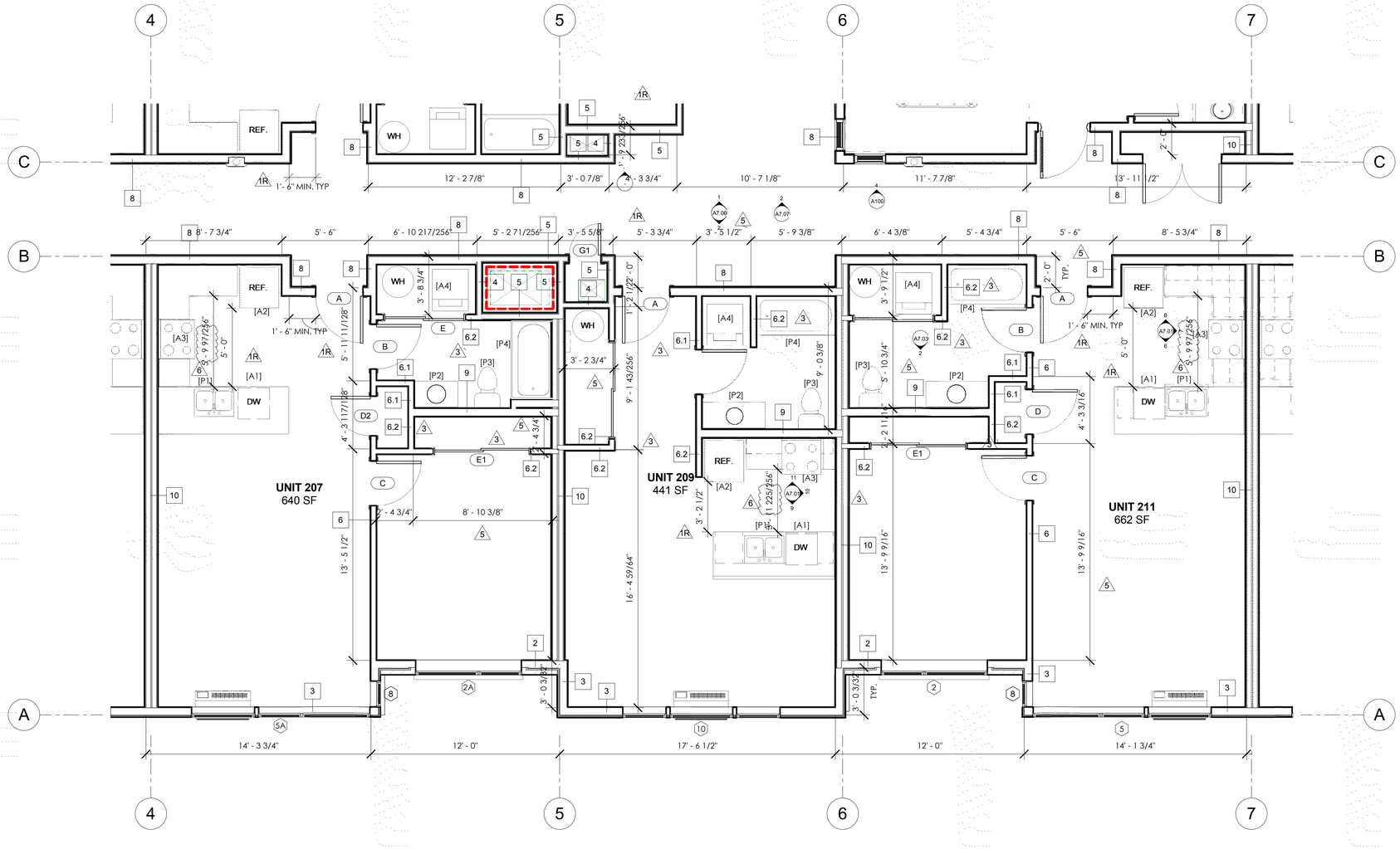

1 PARTIAL FLOOR 2 - ENLARGED C

1/4" = 1'-0"

0' 4' 8' 16' 32'

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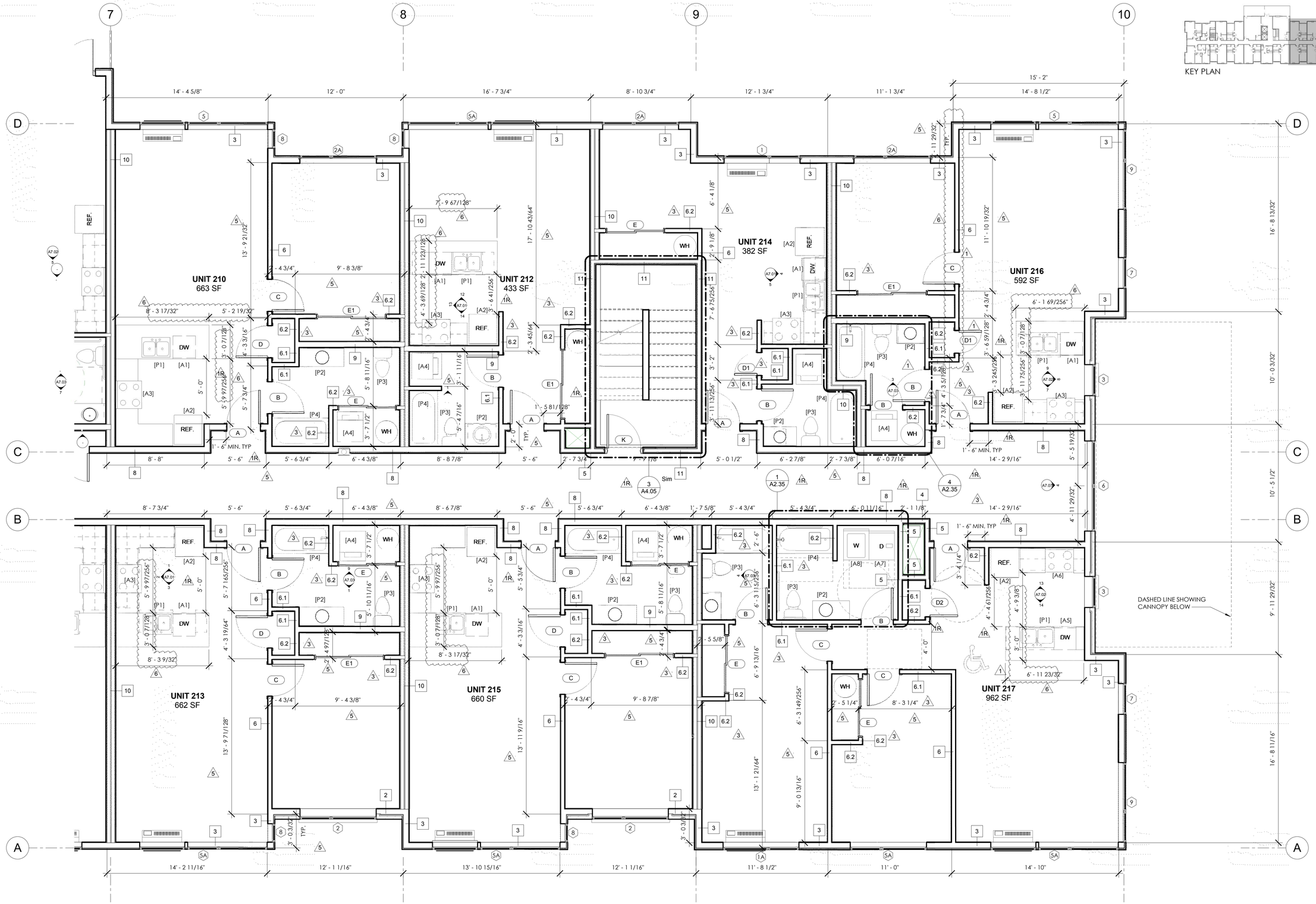
ENLARGED PLANS - FLOOR 2C

A2.12



1 PARTIAL FLOOR 2 - ENLARGED D

1/4" = 1'-0"

0' 4' 8' 16' 32'

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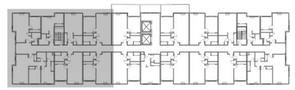
ENLARGED PLANS - FLOOR 2D

A2.13

1 PARTIAL FLOOR 3 - ENLARGED A

1/4" = 1'-0"

0' 4' 8' 16' 32'



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ENLARGED PLANS - FLOOR 3A

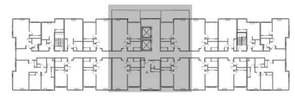
1R

A2.14

1 PARTIAL FLOOR 3 - ENLARGED B

1/4" = 1'-0"

0' 4' 8' 16' 32'



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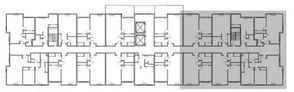
ENLARGED PLANS - FLOOR 3B

A2.15

KEY PLAN



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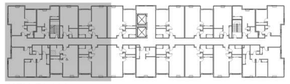
ENLARGED PLANS - FLOOR 3C

A2.16

1 PARTIAL FLOOR 3 - ENLARGED C

1/4" = 1'-0"

0' 4' 8' 16' 32'



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ENLARGED PLANS - FLOOR 4 - 5A

A2.17

1 PARTIAL FLOOR 4 - 5 - ENLARGED A

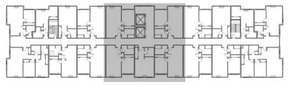
1/4" = 1'-0"

0' 4' 8' 16' 32'

1 PARTIAL FLOOR 4 - 5 - ENLARGED B

1/4" = 1'-0"

0' 4' 8' 16' 32'



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ENLARGED PLANS - FLOOR 4 - 5B

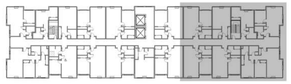
A2.18

1 PARTIAL FLOOR 4 - 5 - ENLARGED C

1/4" = 1'-0"

0' 4' 8' 16' 32'

KEY PLAN



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601 4th Ave East
Olympia, WA 98501
(360) 753-8248
rbalders@ci.olympia.wa.us

TOWNZEN & ASSOCIATES
PLAN APPROVAL
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Approved as submitted.
09/17/2019

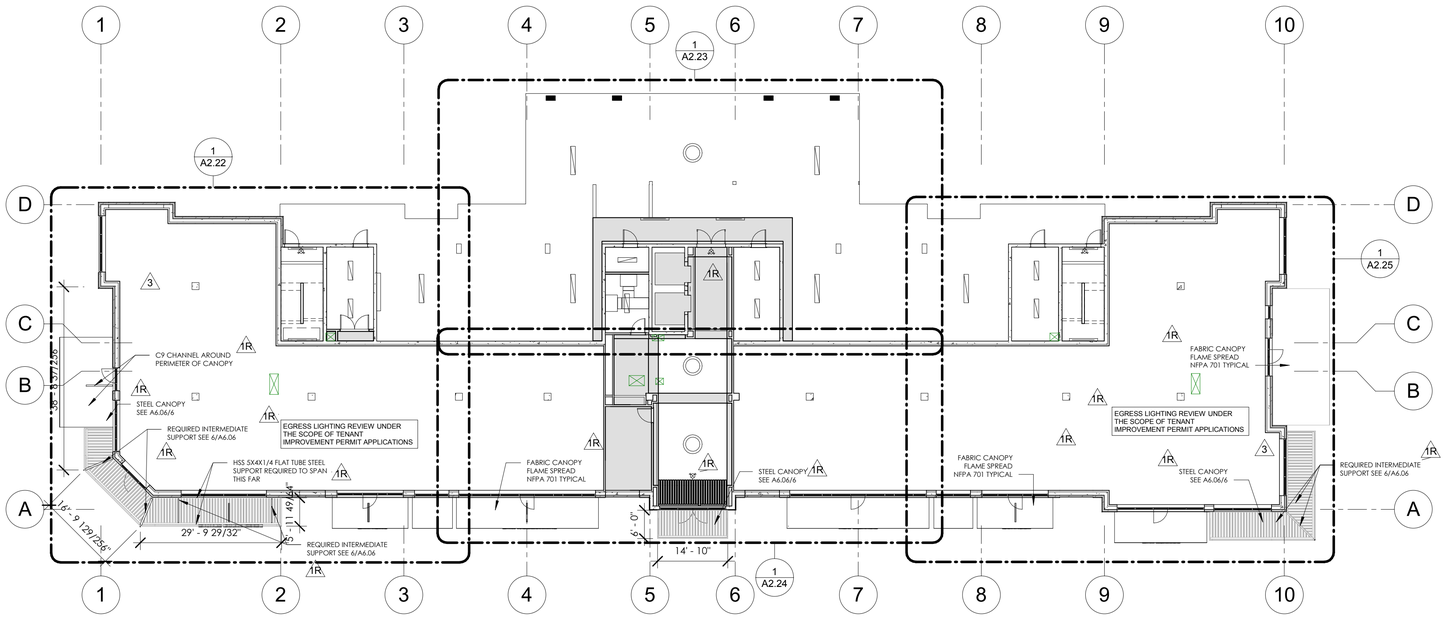
EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

1 REVISION 1. 01-31-2019
1R RESPONSE TO COMMENTS, 01-31-2019
2R RESPONSE TO COMMENTS, 03-20-2019
3 REVISION 3. 06-13-2019
4 REVISION 4. 07-08-2019
5 REVISION 5. 08-02-2019
6 REVISION 6. 09-03-2019

ENLARGED PLANS - FLOOR 4 - 5C

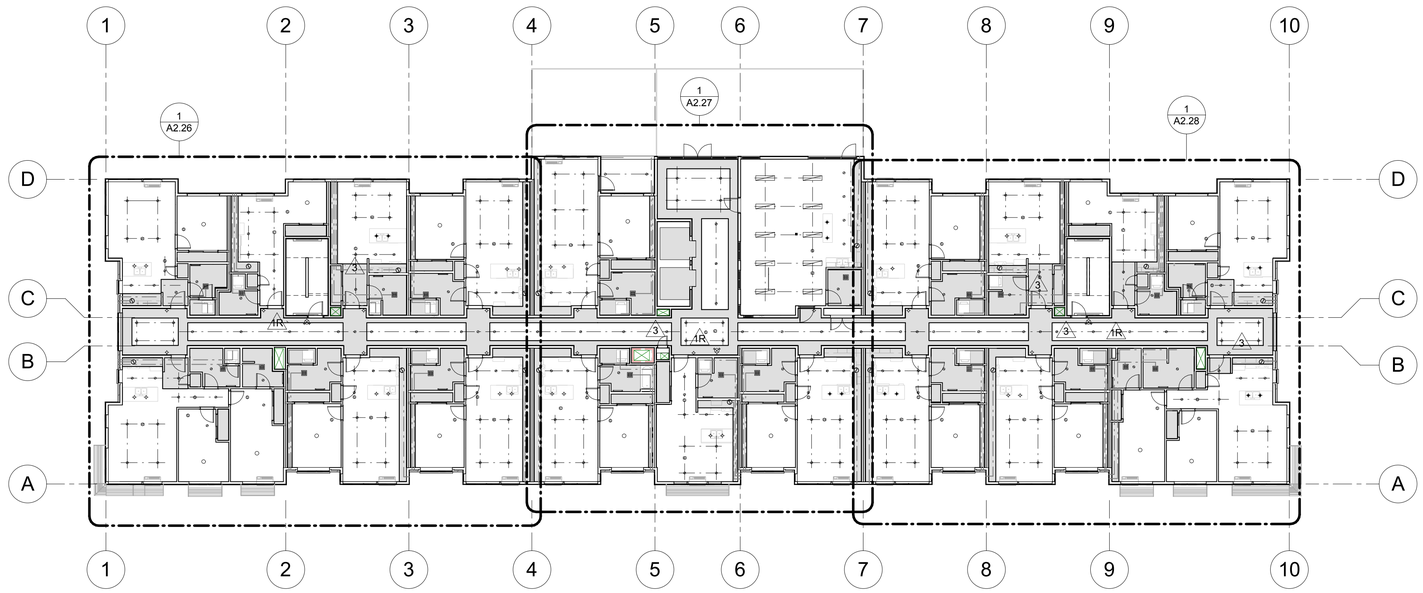
A2.19



1 FLOOR 1 - REFLECTED CEILING PLAN

1/16" = 1'-0"

0' 4' 8' 16' 32'



2 LEVEL 2

1/16" = 1'-0"

GENERAL NOTES

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2. CONTRACTOR SHALL PROVIDE SUBMITTAL CUT SHEETS TO ARCHITECT FOR REVIEW ON ALL LIGHTING PRODUCTS TO BE INSTALLED PRIOR TO ORDERING.
3. CONTRACTOR SHALL PROVIDE ALL BACKING AS REQUIRED FOR ALL FIXTURES.
4. ALL SURFACE MOUNT FIXTURES SHALL BE INSTALLED FLUSH TO FINISH SURFACE. CONTRACTOR TO COORDINATE JUNCTION BOX LOCATIONS PRIOR TO COVER.
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13. FIXTURE LOCATIONS ARE SHOWN FOR REFERENCE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. ALL LIGHT FIXTURE PENETRATIONS THROUGH RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH IBC 714.42.

PLAN LEGEND

SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND FIXTURE SCHEDULES. LETTERS IN PARENTHESIS NEXT TO LIGHT FIXTURE SYMBOLS INDICATES FIXTURE TYPE AS LISTED IN THE LIGHT FIXTURE SCHEDULE ON SHEET E - 100

- PENDANT LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE. PROVIDE WET LOCATION FIXTURE AS REQUIRED. PROVIDE WITH LED
- SURFACE MOUNT LIGHT FIXTURE
- WALL SCONCE FIXTURE
- VANITY LIGHT FIXTURE, WALL MOUNTED
- EXIT LIGHTS
- LINEAR LED LIGHTING FIXTURE
- 1X4 LINEAR LED LIGHTING FIXTURE
- LINEAR LED, WITH EMERGENCY BATTERY PACK
- BATHROOM LIGHT/EXHAUST FAN
- KITCHEN EXHAUST FAN
- 1 HEIGHT — 5/8" TYPE "X" GYPSUM BOARD W/ LEVEL 4 FINISH
- T&G HEIGHT — T & G 1x6 TONGUE AND GROOVE WOOD SOFFIT
- 2 HEIGHT — SUSPENDED CEILING SYSTEM.
- OS — DUAL TECHNOLOGY AUTOMATIC OCCUPANCY SENSOR DEVICE WITH POWER PACK (WATT STOPPER #DT-300L)
- S — 120V SMOKE DETECTOR
- SC — 120V COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH SOUNDER BASE
- FLOOD LIGHT, WITH EMERGENCY BATTERY PACK
- FAN COIL UNIT, SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER
- RETURN DIFFUSER

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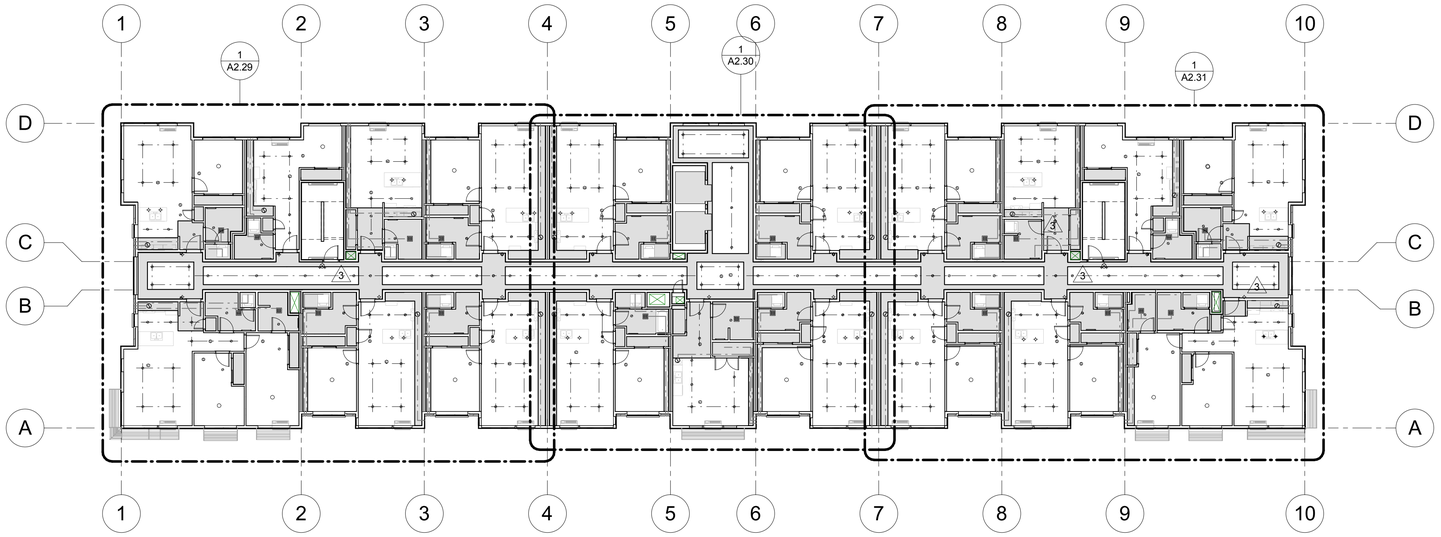
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

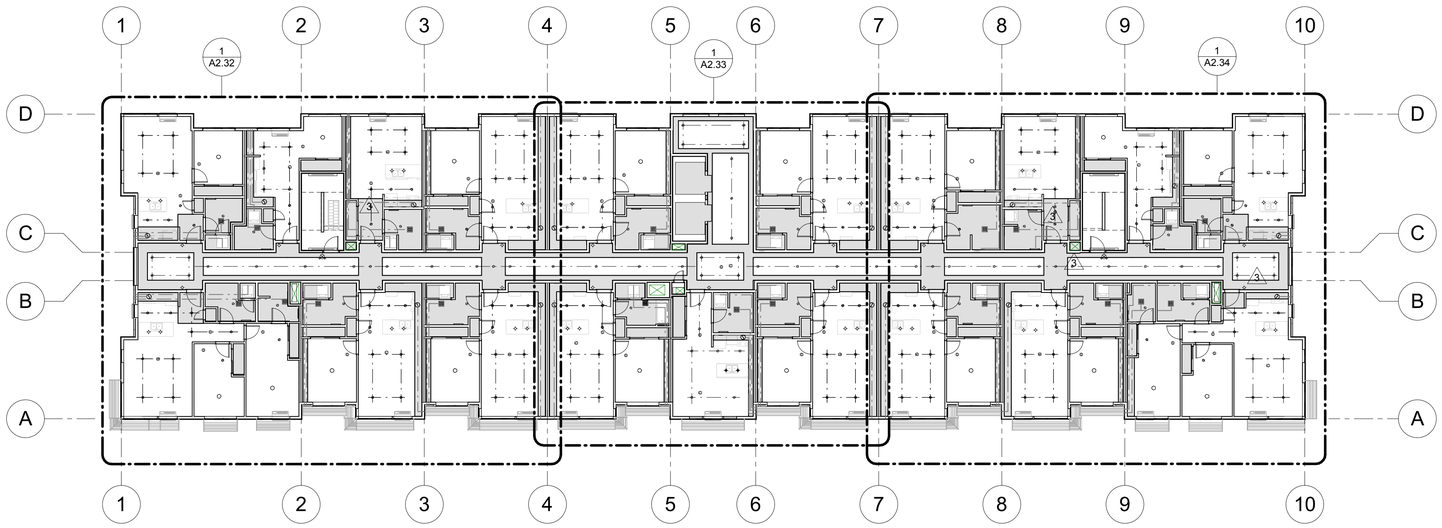
KEY RCP - LEVEL 1-2

A2.20



1 FLOOR 3 - REFLECTED CEILING PLAN

1/16" = 1'-0"



2 FLOOR 4 - 5 - REFLECTED CEILING PLAN

1/16" = 1'-0"

PLAN LEGENDS

- 1 / A101 — SECTION MARKER, NUMBER BELOW INDICATES PAGE WHERE SECTION CAN BE FOUND, NUMBER ABOVE INDICATES THE SECTION LOCATION ON THE PAGE.
- 1 / A - 209 — DETAIL MARKER, NUMBER BELOW INDICATES PAGE WHERE DETAIL CAN BE FOUND, NUMBER ABOVE INDICATES THE DETAIL LOCATION ON THE PAGE.
- A — DOOR MARKER, LETTER INDICATES TYPE OF DOOR. SCHEDULE LOCATED ON PAGE A - 801
- FEC — AMBASSADOR- SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 1-1/2" SQUARE TIME OR EQUAL. PROVIDE WITH 2A- 10BC EXTINGUISHER. EVERY 3,000 SQUARE FEET AS LOCATED IN PLANS, NOT TO EXCEED 75 FEET OF TRAVEL.

PLAN LEGEND

SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND FIXTURE SCHEDULES. LETTERS IN PARENTHESIS NEXT TO LIGHT FIXTURE SYMBOLS INDICATES FIXTURE TYPE AS LISTED IN THE LIGHT FIXTURE SCHEDULE ON SHEET E - 100

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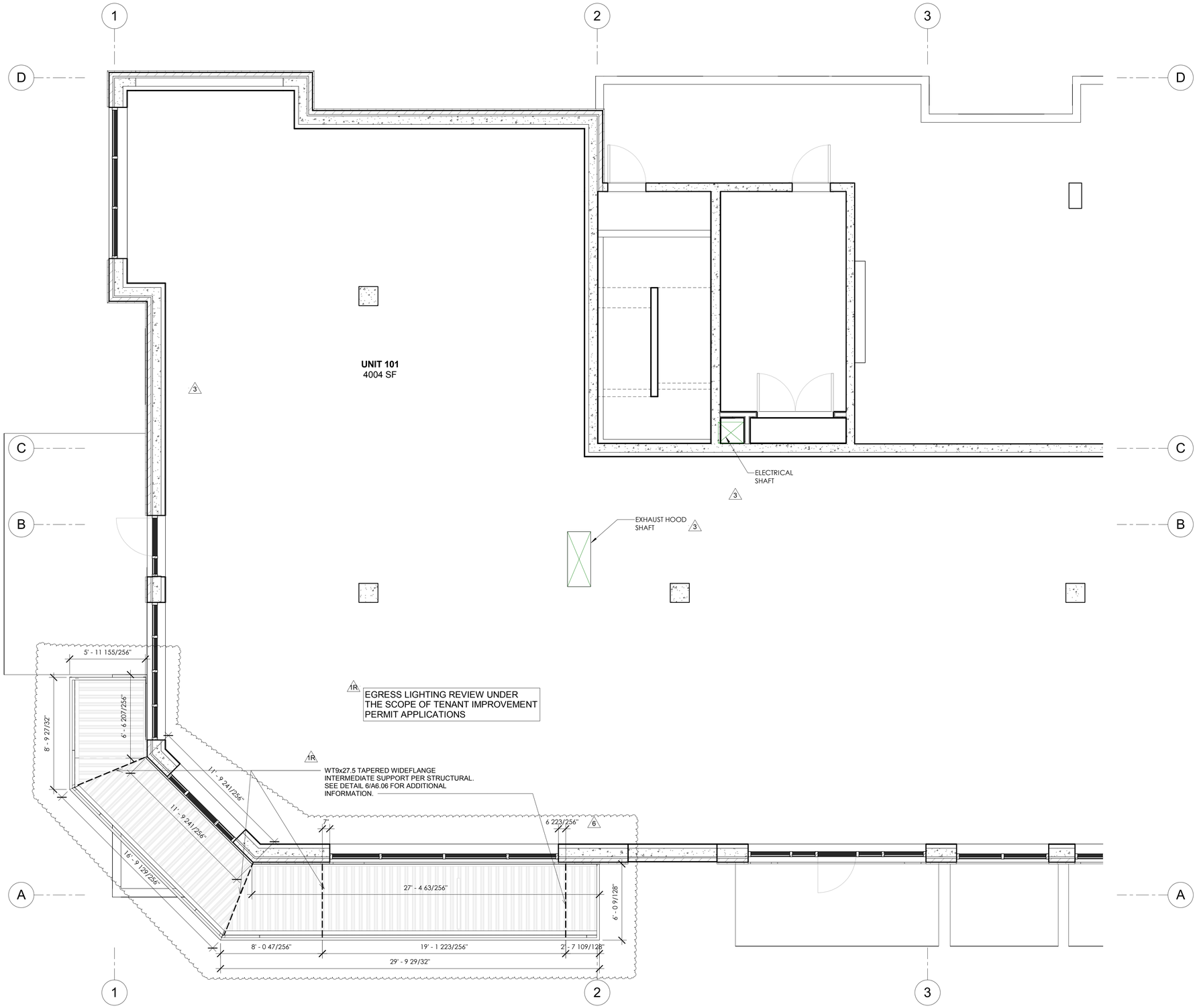
KEY RCP - LEVEL 3-5

A2.21



1 PARTIAL FLOOR 1 - ENLARGED RCP A

1/4" = 1'-0"

0' 4' 8' 16' 32'

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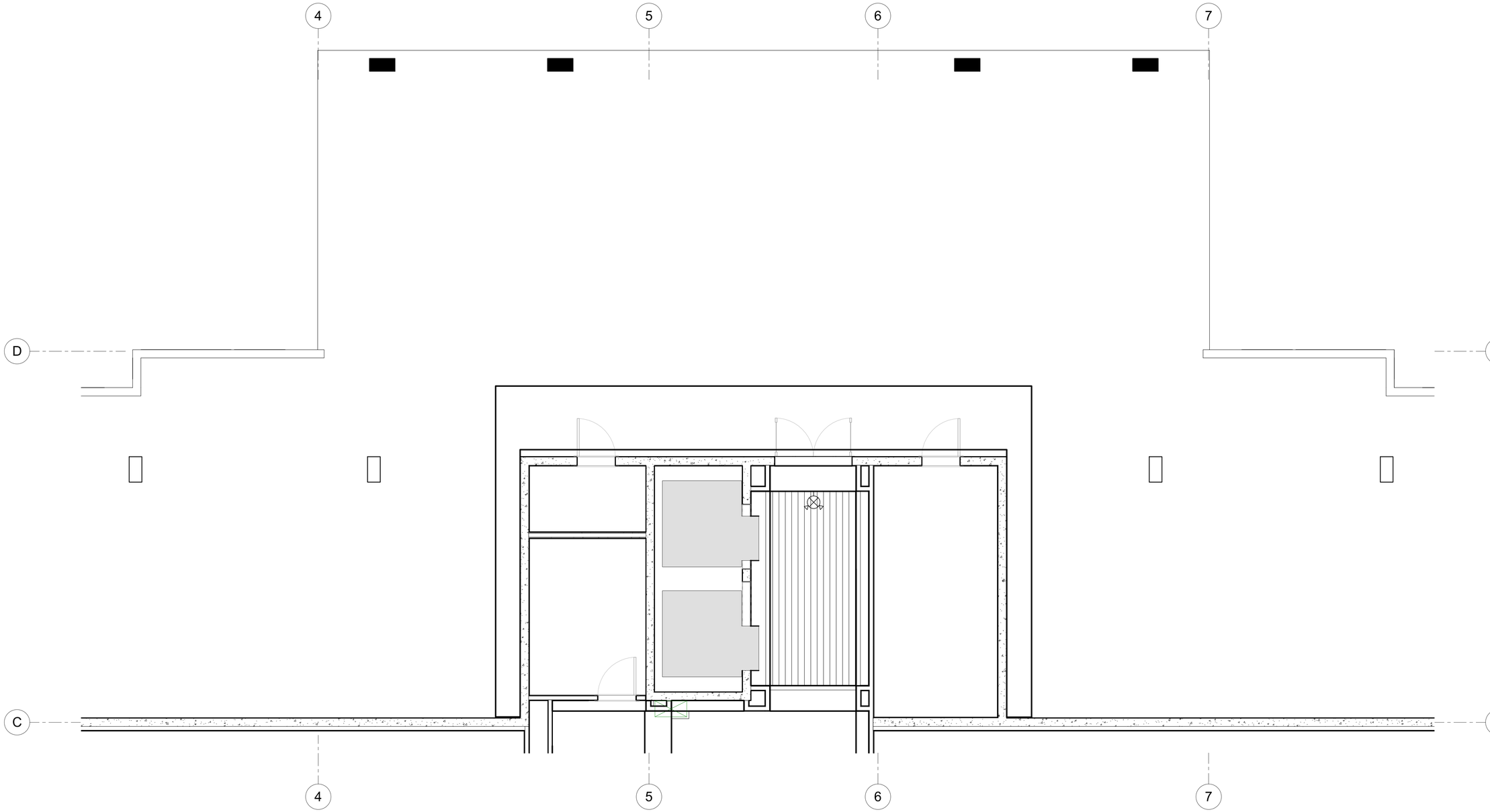
ENLARGED RCP - FLOOR 1A

A2.22


KEY PLAN



1 PARTIAL FLOOR 1 - ENLARGED RCP B

1/4" = 1'-0"

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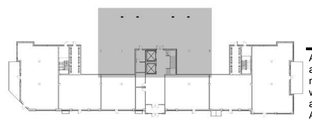
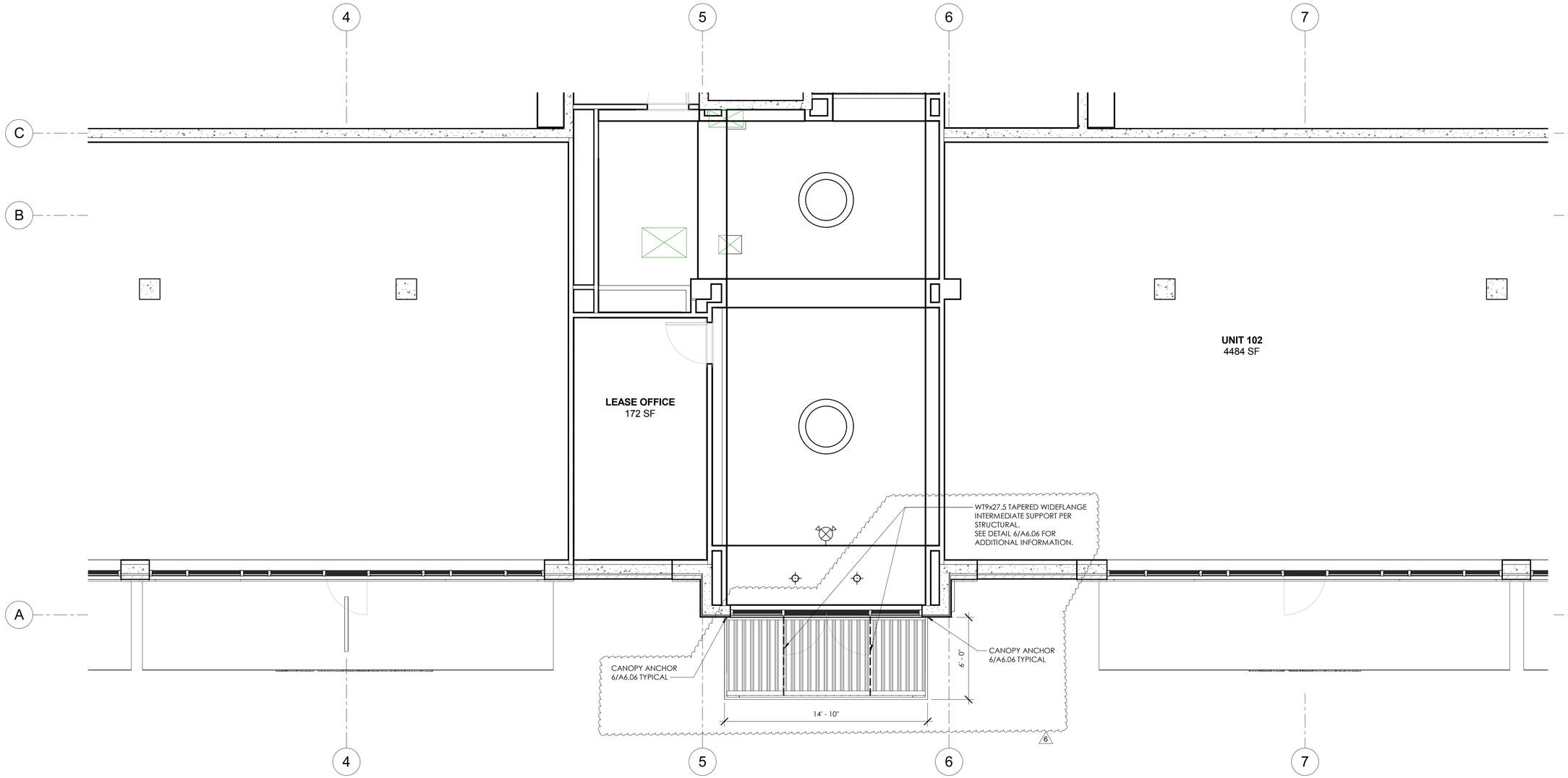
ENLARGED RCP - FLOOR 1B

A2.23


KEY PLAN



1 PARTIAL FLOOR 1 - ENLARGED RCP C

1/4" = 1'-0"

0' 4' 8' 16' 32'

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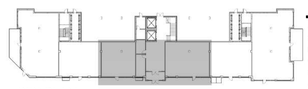
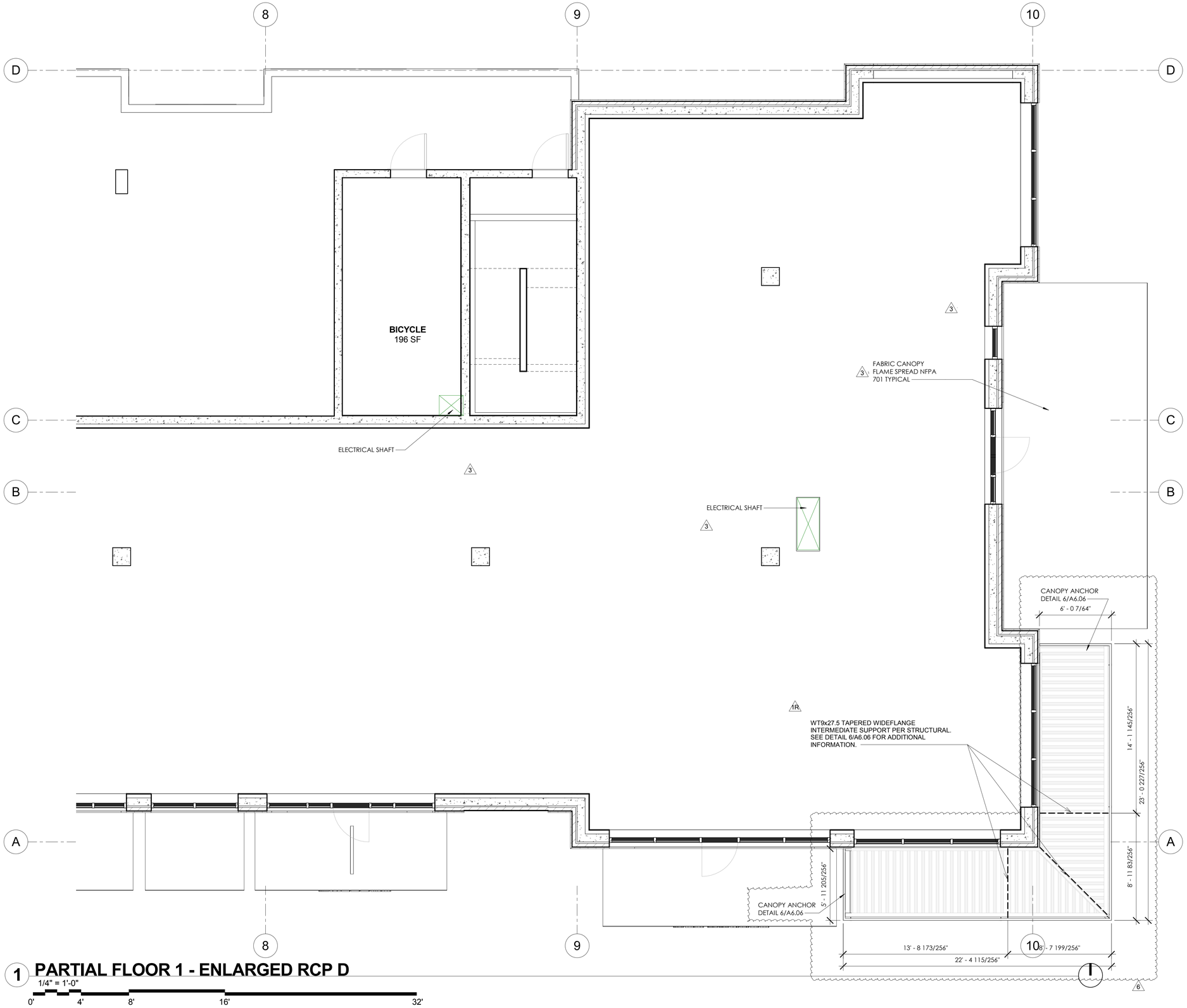
ENLARGED RCP - FLOOR 1C

A2.24


KEY PLAN



1 PARTIAL FLOOR 1 - ENLARGED RCP D

1/4" = 1'-0"

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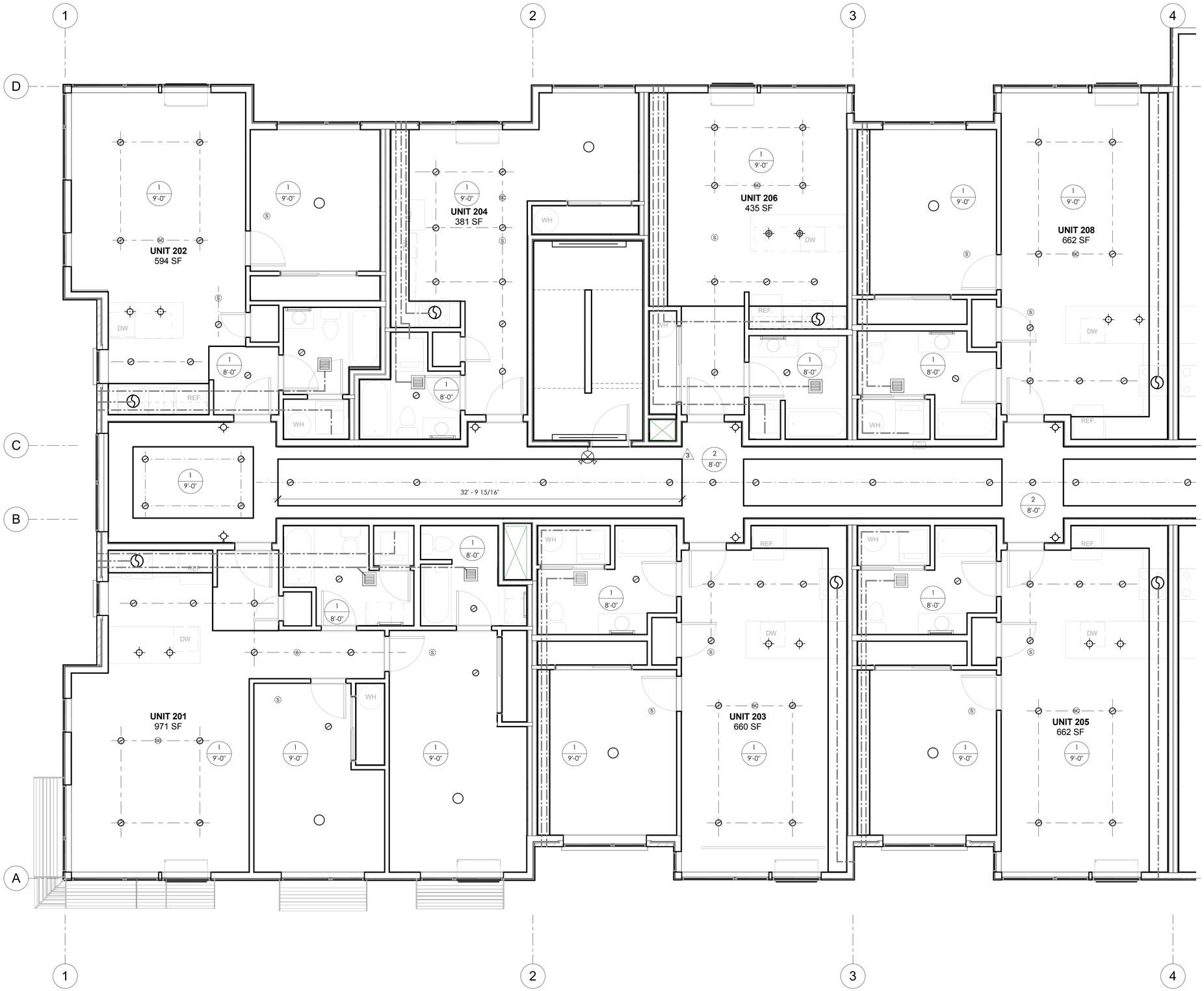
ENLARGED RCP - FLOOR 1D

A2.25

KEY PLAN



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ENLARGED RCP - FLOOR 2A

1R

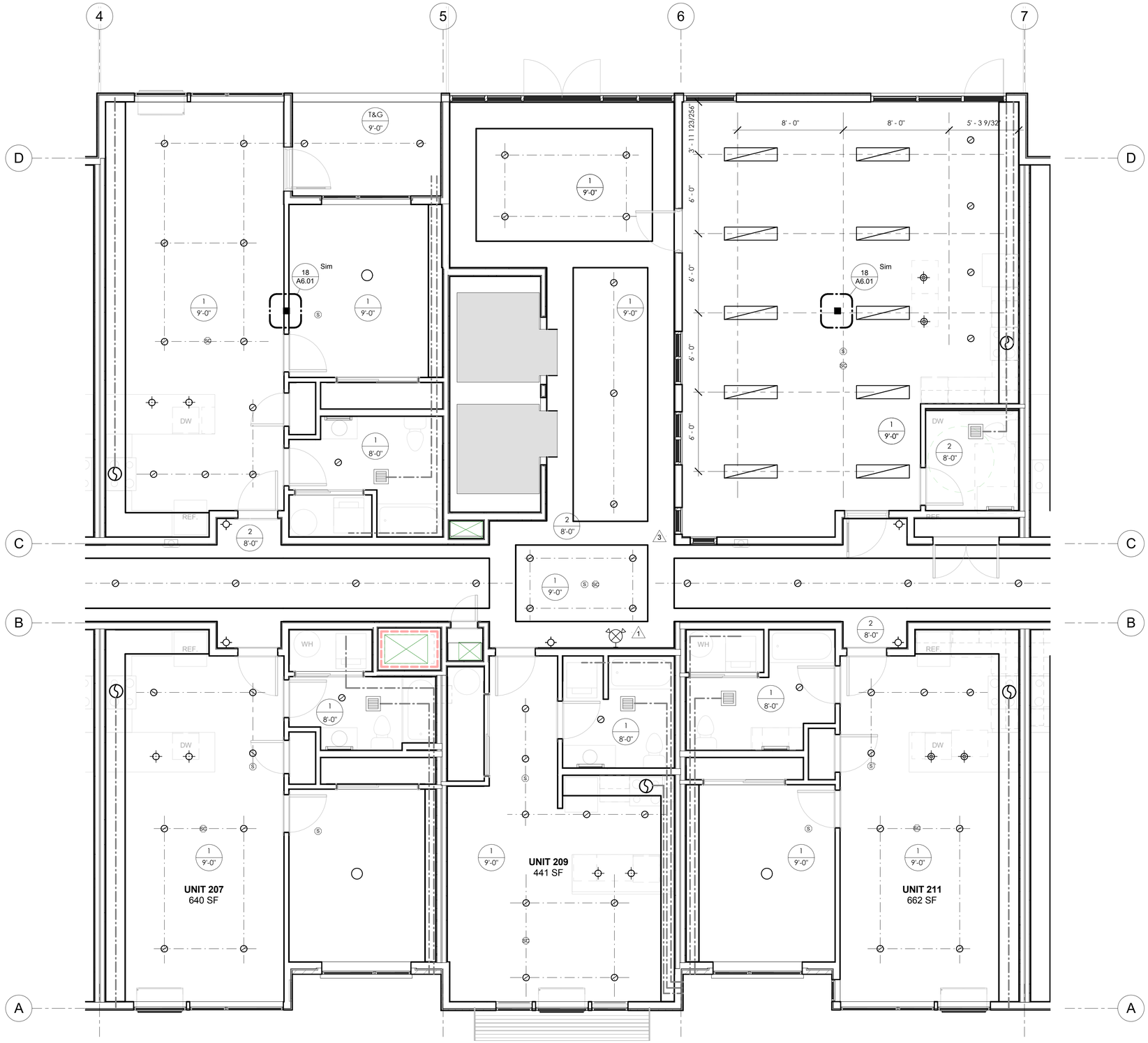
A2.26

KEY PLAN

1 PARTIAL FLOOR 2 - ENLARGED RCP A

1/4" = 1'-0"

0' 4' 8' 16' 32'



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- PENDANT LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE, PROVIDE WET LOCATION FIXTURE AS REQUIRED. PROVIDE WITH LED
- SURFACE MOUNT LIGHT FIXTURE
- WALL SCONCE FIXTURE
- VANITY LIGHT FIXTURE, WALL MOUNTED
- EXIT LIGHTS
- LINEAR LED LIGHTING FIXTURE
- 1X4 LINEAR LED LIGHTING FIXTURE
- LINEAR LED, WITH EMERGENCY BATTERY PACK
- BATHROOM LIGHT/EXHAUST FAN
- KITCHEN EXHAUST FAN
- 1 HEIGHT — 5/8" TYPE "X" GYPSUM BOARD W/ LEVEL 4 FINISH
- T&G HEIGHT — T & G 1x6 TONGUE AND GROOVE WOOD SOFFIT
- 2 HEIGHT — SUSPENDED CEILING SYSTEM.
- OS — DUAL TECHNOLOGY AUTOMATIC OCCUPANCY SENSOR DEVICE WITH POWER PACK (WATT STOPPER #DT-300L)
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- FAN COIL UNIT, SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER
- RETURN DIFFUSER

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4 Approved as submitted. 09/17/2019

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

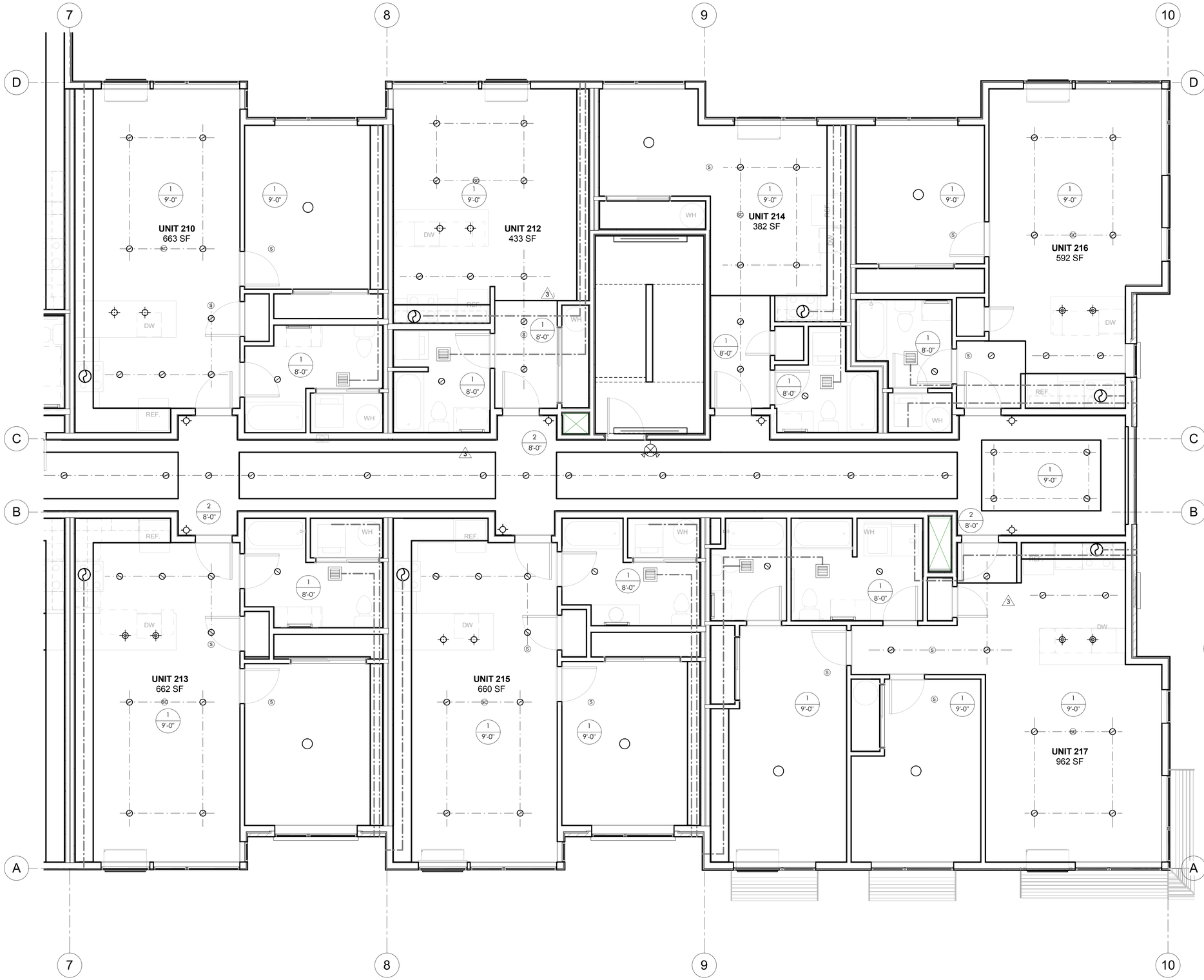
Project No: 1514
BUILDING PERMIT SET
09/09/2019

- 1 REVISION 1. 01-31-2019
- 1R RESPONSE TO COMMENTS. 01-31-2019
- 2R RESPONSE TO COMMENTS. 03-20-2019
- 3 REVISION 3. 06-13-2019
- 4 REVISION 4. 07-08-2019
- 5 REVISION 5. 08-02-2019
- 6 REVISION 6. 09-03-2019

ENLARGED RCP - FLOOR 2B

1R A2.27

KEY PLAN



1 PARTIAL FLOOR 2 - ENLARGED RCP C

1/4" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

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14. ALL LIGHT FIXTURE PENETRATIONS THROUGH RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH IBC 714.42.

PLAN LEGEND

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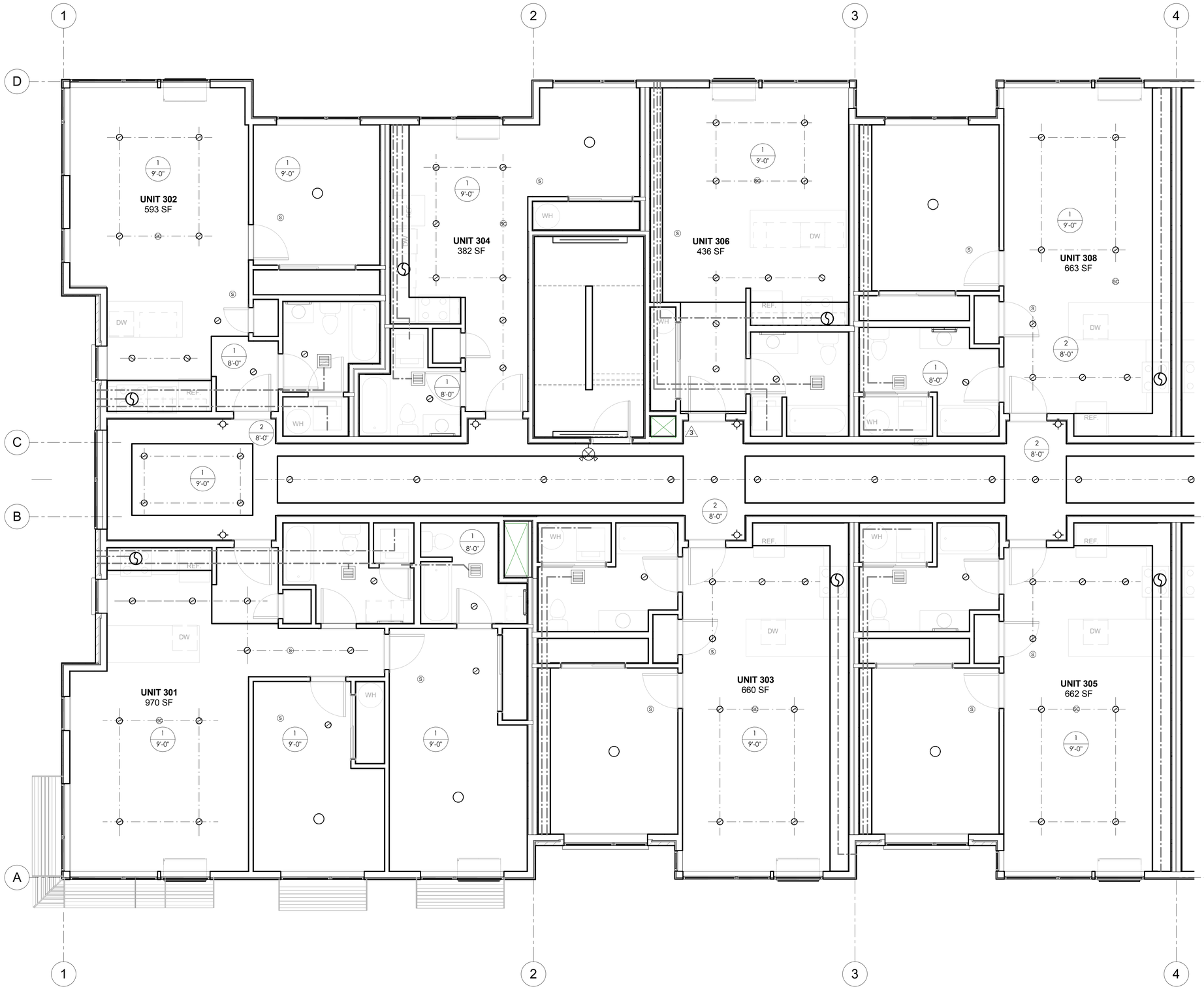
ENLARGED RCP - FLOOR 2C

1R **A2.28**

KEY PLAN



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PLAN LEGEND

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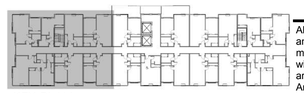
ENLARGED RCP - FLOOR 3A

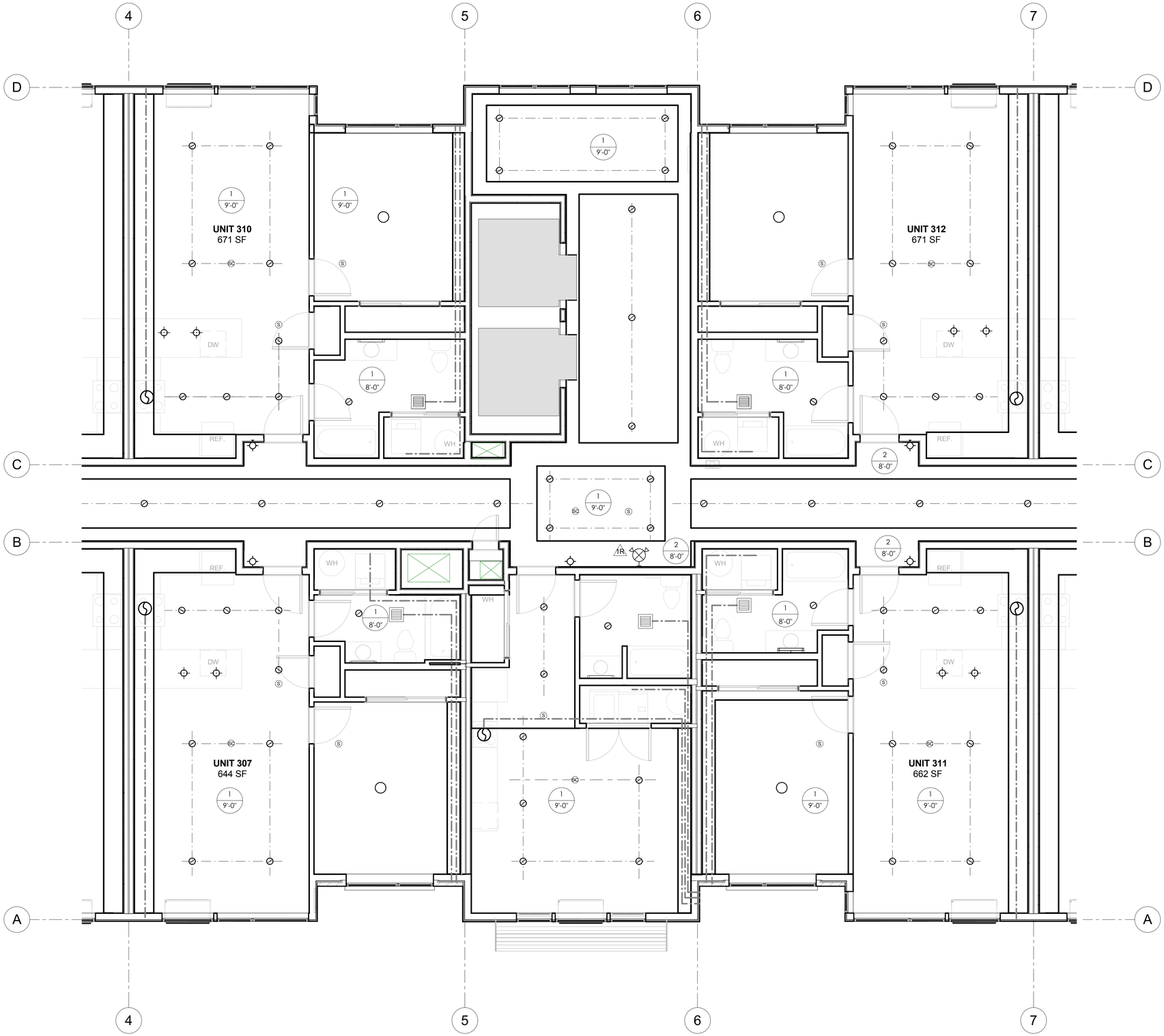
1R
A2.29


KEY PLAN

1 PARTIAL FLOOR 3 - ENLARGED RCP A

1/4" = 1'-0"

0' 4' 8' 16' 32'



1 PARTIAL FLOOR 3 - ENLARGED RCP B

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0' 4' 8' 16' 32'

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PLAN LEGEND

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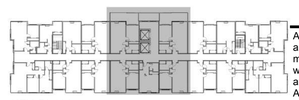
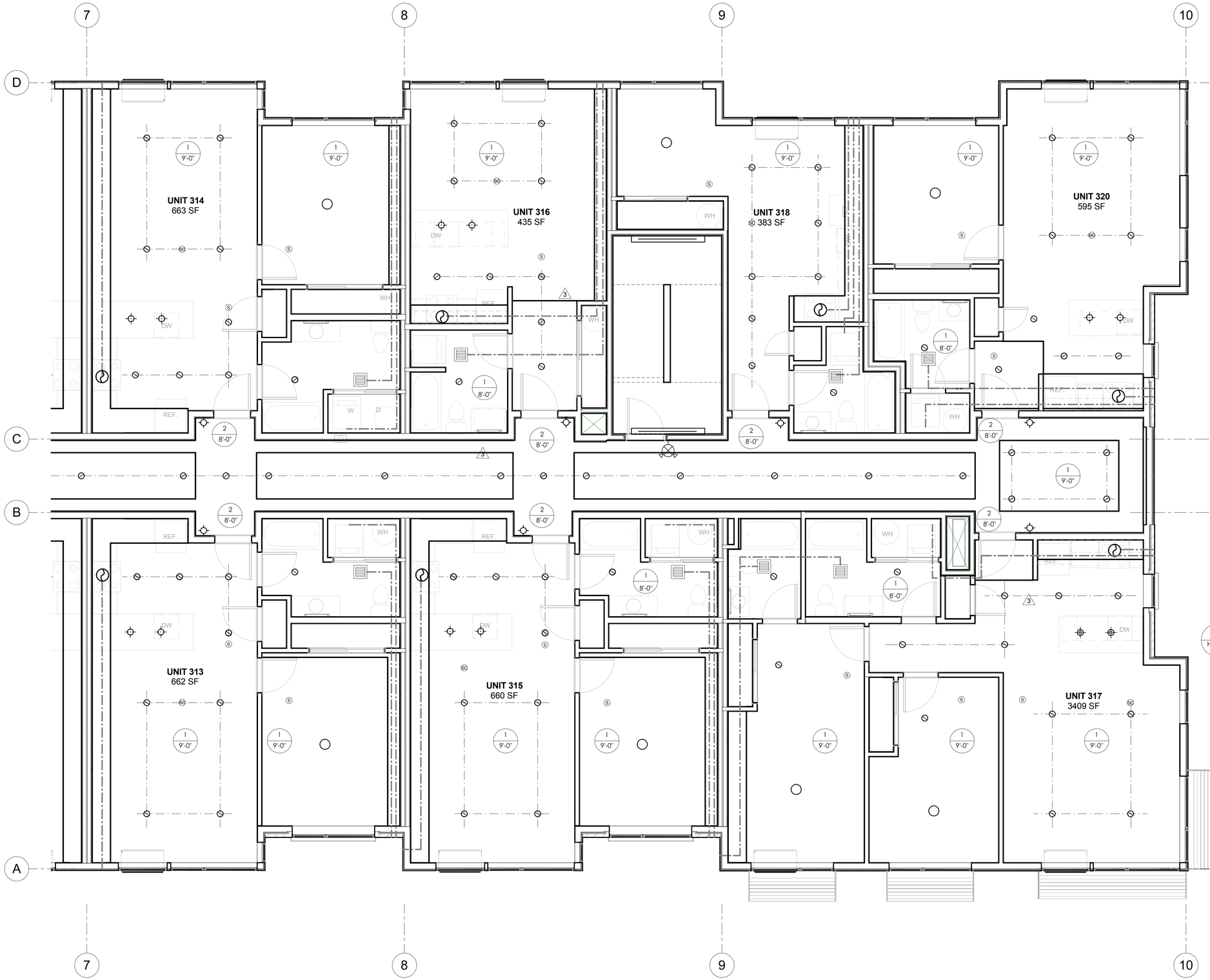
ENLARGED RCP - FLOOR 3B

A2.30



KEY PLAN



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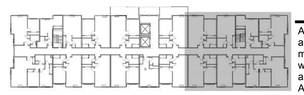
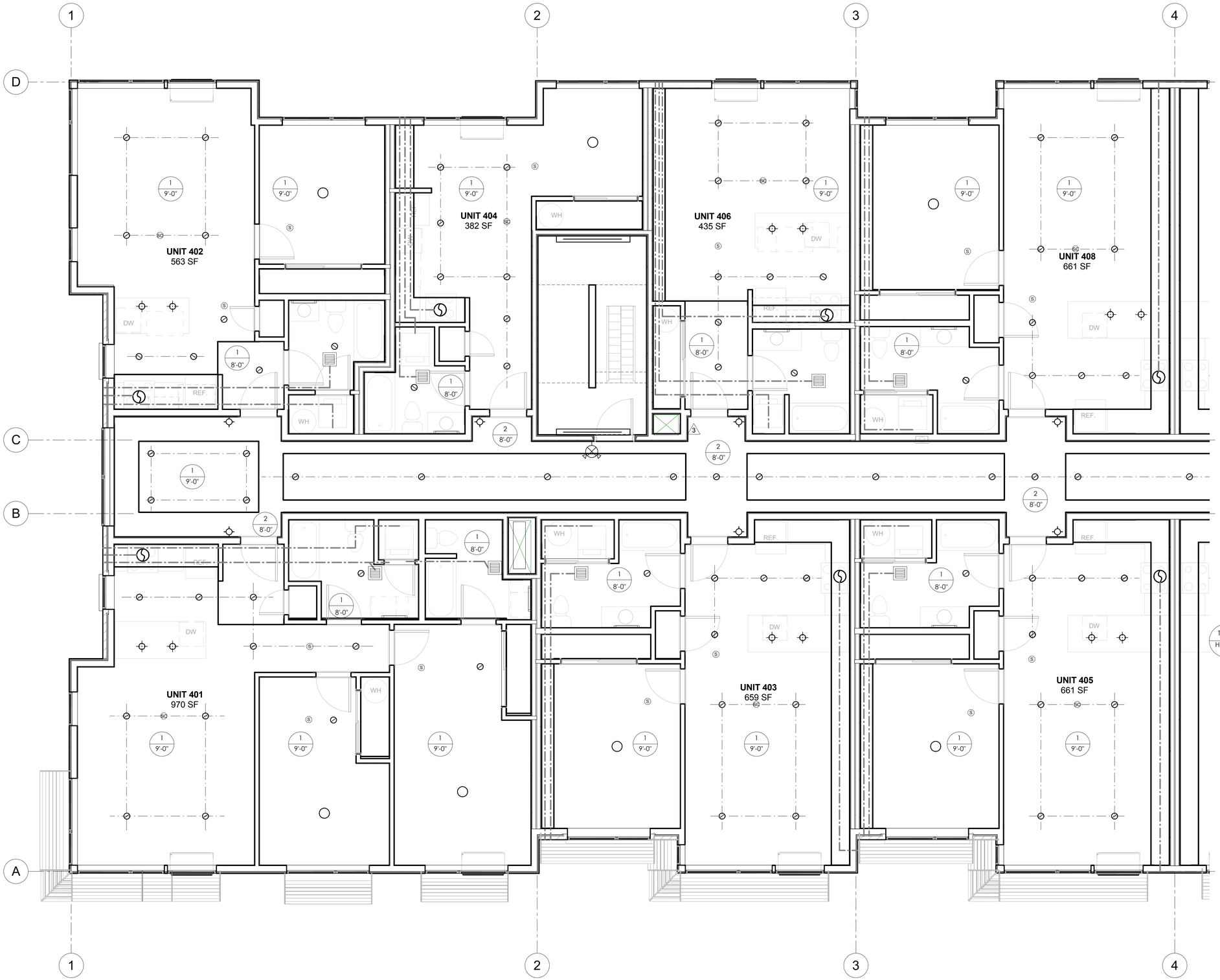
ENLARGED RCP - FLOOR 3C

A2.31

1 **PARTIAL FLOOR 3 - ENLARGED RCP C**
1/4" = 1'-0"
0' 4' 8' 16' 32'


KEY PLAN



1 PARTIAL FLOOR 4 - 5 - ENLARGED RCP A

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14. ALL LIGHT FIXTURE PENETRATIONS THROUGH RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH IBC 714.4.2

PLAN LEGEND

SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND FIXTURE SCHEDULES. LETTERS IN PARENTHESIS NEXT TO LIGHT FIXTURE SYMBOLS INDICATES FIXTURE TYPE AS LISTED IN THE LIGHT FIXTURE SCHEDULE ON SHEET E - 100

- PENDANT LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE, PROVIDE WET LOCATION FIXTURE AS REQUIRED, PROVIDE WITH LED
- SURFACE MOUNT LIGHT FIXTURE
- WALL SCONCE FIXTURE
- VANITY LIGHT FIXTURE, WALL MOUNTED
- EXIT LIGHTS
- LINEAR LED LIGHTING FIXTURE
- 1X4 LINEAR LED LIGHTING FIXTURE
- LINEAR LED, WITH EMERGENCY BATTERY PACK
- BATHROOM LIGHT/EXHAUST FAN
- KITCHEN EXHAUST FAN
- 1 HEIGHT — 5/8" TYPE "X" GYPSUM BOARD W/ LEVEL 4 FINISH
- T&G HEIGHT — T & G 1x6 TONGUE AND GROOVE WOOD SOFFIT
- 2 HEIGHT — SUSPENDED CEILING SYSTEM.
- OS — DUAL TECHNOLOGY AUTOMATIC OCCUPANCY SENSOR DEVICE WITH POWER PACK (WATT STOPPER #DT-300L)
- S — 120V SMOKE DETECTOR
- SC — 120V COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH SOUNDER BASE
- FLOOD LIGHT, WITH EMERGENCY BATTERY PACK
- FAN COIL UNIT, SEE MECHANICAL DRAWINGS
- SUPPLY DIFFUSER
- RETURN DIFFUSER

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TOWNZEN & ASSOCIATES
PLAN APPROVAL
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4 Approved as submitted.
09/17/2019

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

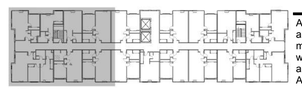
Project No: 1514
BUILDING PERMIT SET
09/09/2019

- 1 REVISION 1. 01-31-2019
- 1R RESPONSE TO COMMENTS. 01-31-2019
- 2R RESPONSE TO COMMENTS. 03-20-2019
- 3 REVISION 3. 06-13-2019
- 4 REVISION 4. 07-08-2019
- 5 REVISION 5. 08-02-2019
- 6 REVISION 6. 09-03-2019

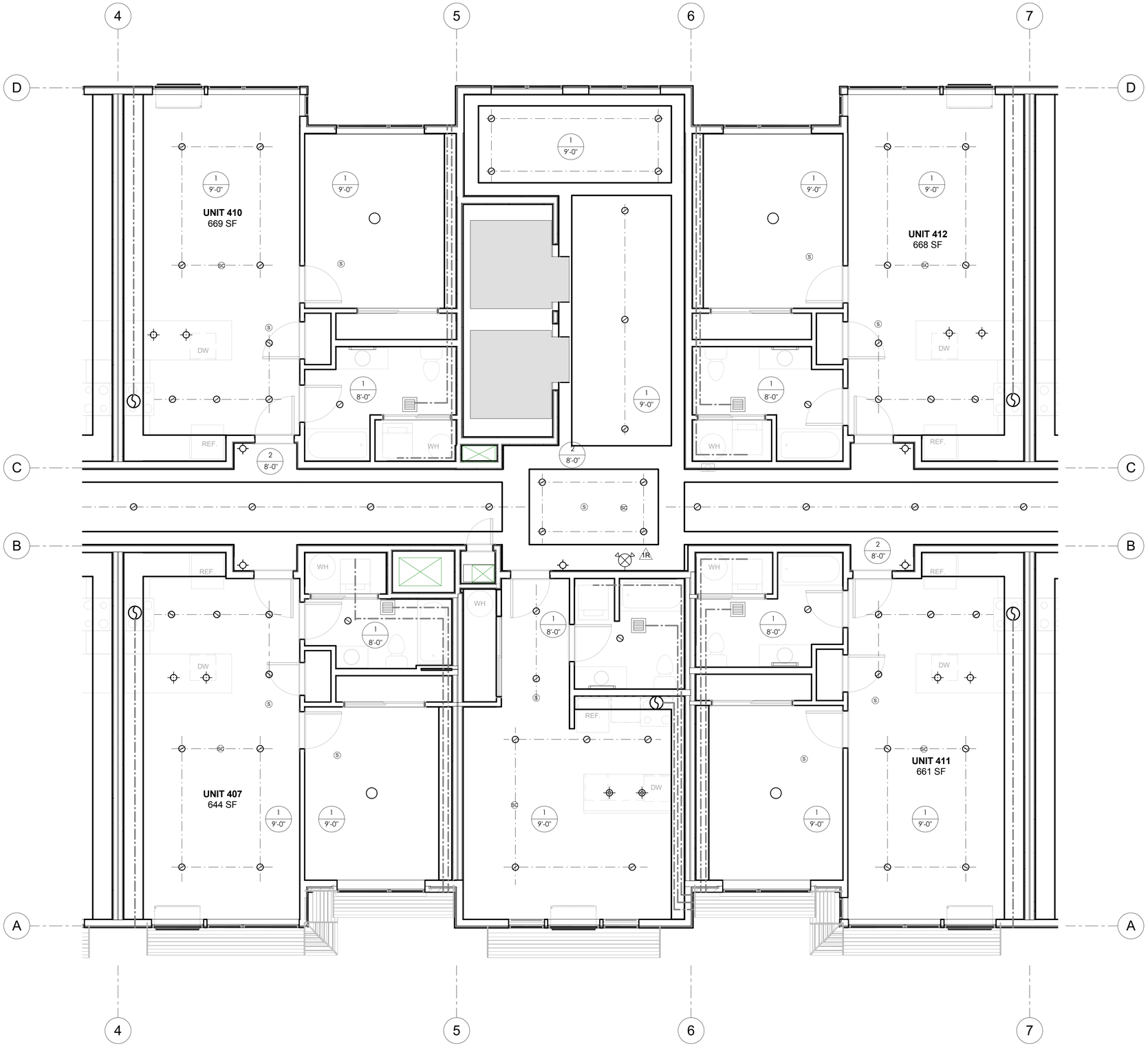
ENLARGED RCP - FLOOR 4 - 5A

1R

A2.32



KEY PLAN



1 **PARTIAL FLOOR 4 - 5 - ENLARGED RCP B**

1/4" = 1'-0"

0' 4' 8' 16' 32'

GENERAL NOTES

1. ALL MECHANICAL AND ELECTRICAL WORK SHALL BE INSTALLED PER CURRENT CODE AND LOCAL JURISDICTION REQUIREMENTS. NO TRIM SHALL BE CUT TO ACCOMMODATE SWITCH PLATES.
2. CONTRACTOR SHALL PROVIDE SUBMITTAL CUT SHEETS TO ARCHITECT FOR REVIEW ON ALL LIGHTING PRODUCTS TO BE INSTALLED PRIOR TO ORDERING.
3. CONTRACTOR SHALL PROVIDE ALL BACKING AS REQUIRED FOR ALL FIXTURES.
4. ALL SURFACE MOUNT FIXTURES SHALL BE INSTALLED FLUSH TO FINISH SURFACE. CONTRACTOR TO COORDINATE JUNCTION BOX LOCATIONS PRIOR TO COVER.
5. ALL CEILING MOUNTED FIXTURES SHALL BE CENTERED IN SPACE UNLESS NOTED OTHERWISE (U.N.O.).
6. WALL MOUNTED LIGHT FIXTURES SHALL BE CENTERED ON WALL UNLESS NOTED OTHERWISE. SEE EXTERIOR AND INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS.
7. ALL LIGHT FIXTURE GROUPS ABOVE SINKS SHALL BE CENTERED ON SINK.
8. ALL INTERIOR FIXTURES SHALL HAVE A MINIMUM OF 75% OF LIGHTING TO BE SUPPLIED WITH HIGH EFFICIENCY LAMPS.
9. CONTRACTOR SHALL CONFIRM STAIRS HAVE AN ILLUMINATION LEVEL ON TREAD RUNS OF NOT LESS THAN 1 FOOT-CANDLE (II LUX).
10. ALL SMOKE ALARMS SHALL BE INTERCONNECTED, HARDWIRED W/ BATTERY BACKUP.
11. ALL CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED, HARDWIRED W/ BATTERY BACKUP. 1R
12. EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED INTERCONNECTED, HARDWIRED W/ BATTERY BACKUP.
13. FIXTURE LOCATIONS ARE SHOWN FOR REFERENCE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. ALL LIGHT FIXTURE PENETRATIONS THROUGH RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH IBC 714.42.

PLAN LEGEND

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09/09/2019

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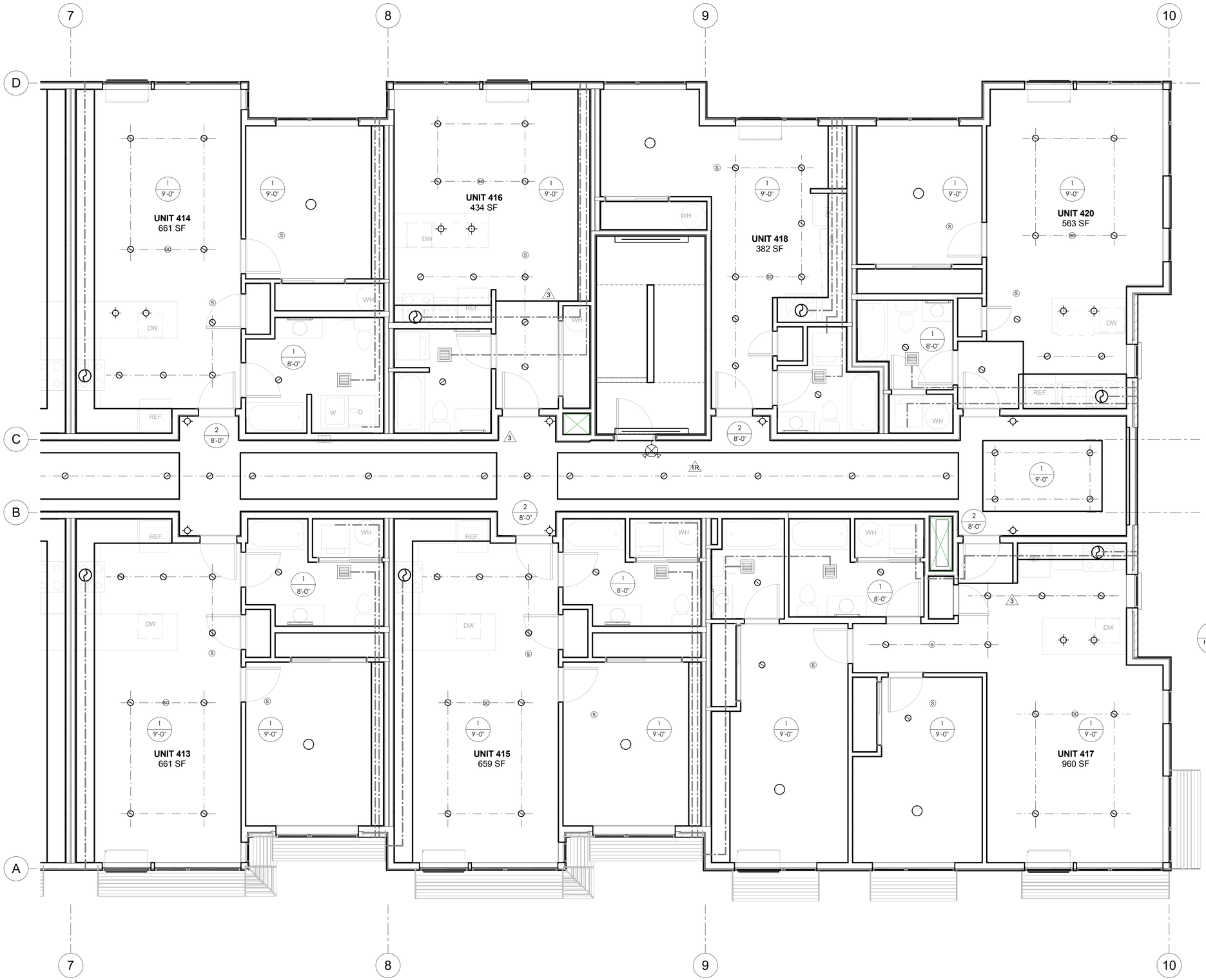
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

ENLARGED RCP - FLOOR 4 - 5B

A2.33

KEY PLAN



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- SUPPLY DIFFUSER
- RETURN DIFFUSER

1 PARTIAL FLOOR 4 - 5 - ENLARGED RCP C

1/4" = 1'-0"

0' 4' 8' 16' 32'

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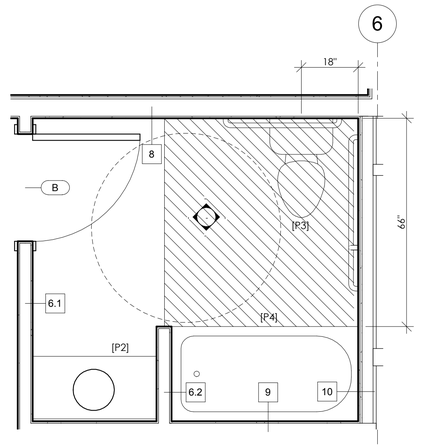
6	REVISION 6. 09-03-2019

ENLARGED RCP - FLOOR 4 - 5C

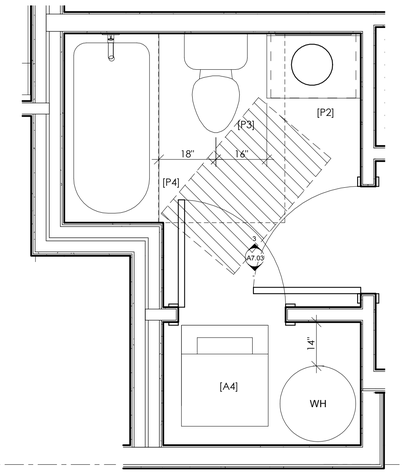
1R

A2.34

KEY PLAN

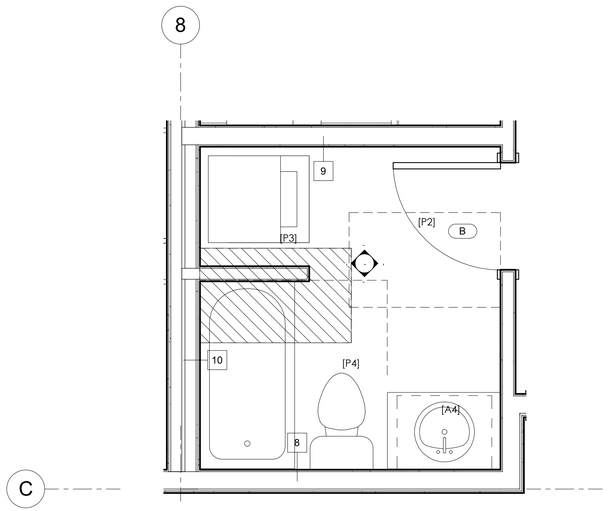


5 ENLARGED BATHROOM PLAN TYPE A UNIT-309
1/2" = 1'-0"

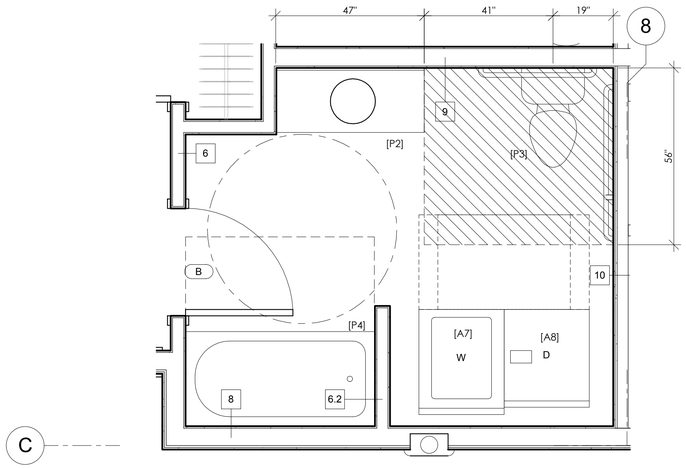


4 ENLARGED BATHROOM PLAN TYPE B UNIT-216
1/2" = 1'-0"

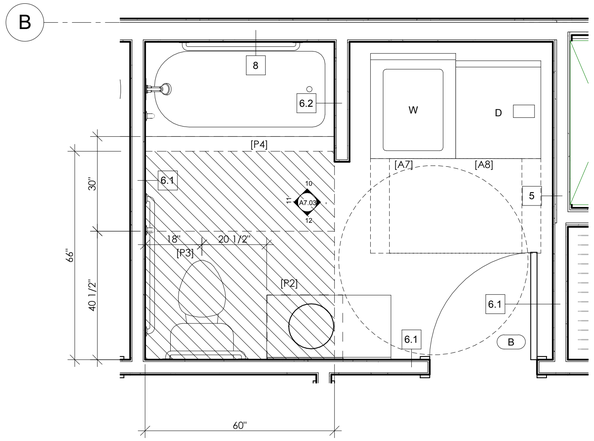
1R



3 ENLARGED BATHROOM PLAN TYPE B UNIT-416
1/2" = 1'-0"



2 ENLARGED BATHROOM TYPE A UNIT-414/514
1/2" = 1'-0"



1 ENLARGED BATHROOM PLAN TYPE A UNIT-217
1/2" = 1'-0"

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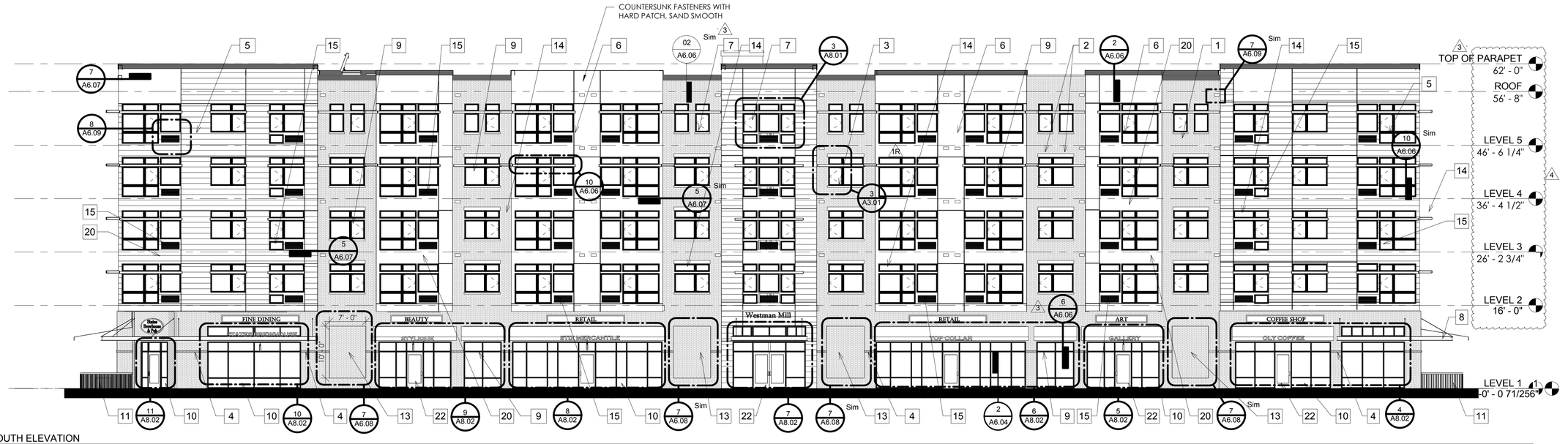
6	REVISION 6. 09-03-2019

ENLARGED PLANS-BATHROOMS

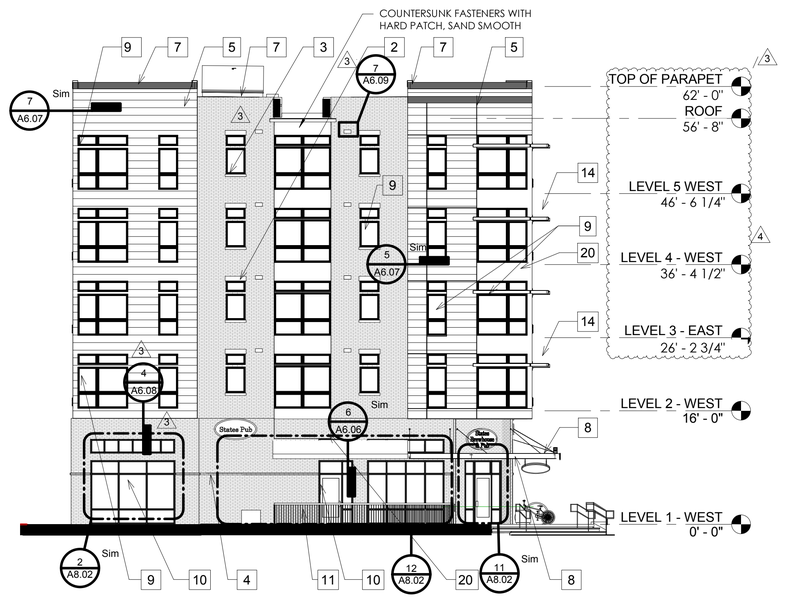
1

A2.35



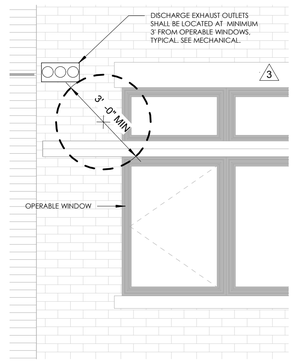
6 SOUTH ELEVATION
3/32" = 1'-0"

0' 4' 8' 16' 32'



1 WEST ELEVATION
3/32" = 1'-0"

0' 4' 8' 16' 32'



3 EXHAUST DISCHARGE LOCATION
1/2" = 1'-0"

ELEVATION KEY NOTES

1	BRICK FIELD - FOREST BLEND
2	BRICK SOLDIER - RAVEN
3	BRICK STILL - RAVEN
4	BRICK ACCENT BAND - RAVEN
5	WOOD RAINSCREEN - CEDAR
6	CEMENT PANEL W/ REGLET REVEAL - HARDI
7	METAL FLASHING - BLACK
8	STEEL CANOPY - BLACK, SEE DETAIL
9	WINDOWS - SEE SCHEDULE
10	STORE FRONT - SEE SCHEDULE
11	METAL RAILING - BLACK, SEE DETAIL
12	LIGHT FIXTURES - SEE ELECTRICAL SCHEDULE
13	BRICK RECESS - SEE DETAILS
14	METAL SUNSHADE - SEE DETAIL
15	PTHP GRILLE - ARCHITECTURE GRILL, SEE DETAIL
16	SOLID WASTE ENCLOSURE - SEE SHEET A1.01
17	HARDI INFILL PANEL
18	WOOD DOOR - SEE DOOR SCHEDULE
20	BREAK METAL INFILL PANEL
22	WOOD GRAIN DOOR AT STOREFRONT

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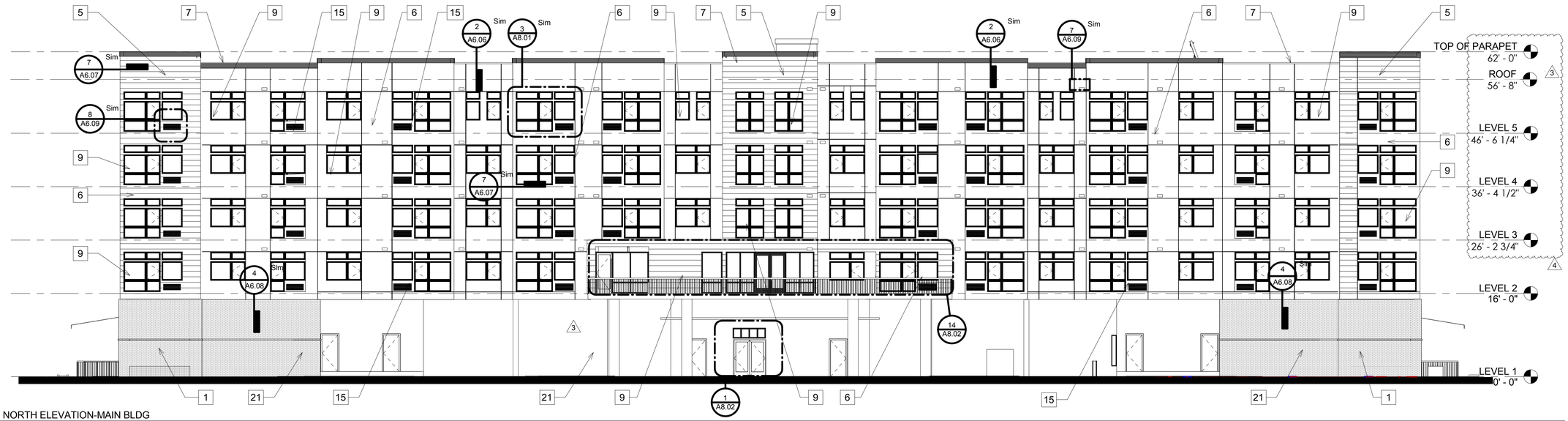
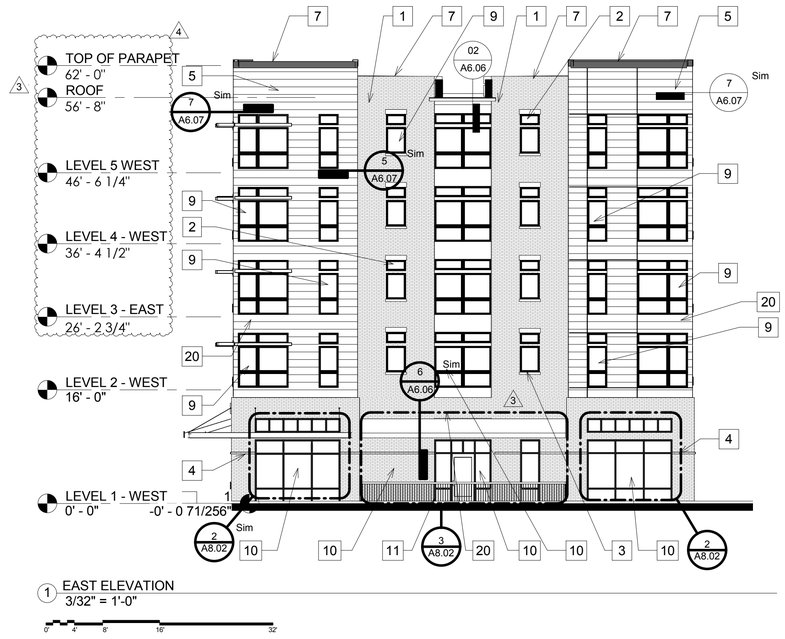
ELEVATIONS

A3.01



2 NORTH ELEVATION-MAIN BLDG
3/32" = 1'-0"

0' 4' 8' 16' 32'



1 EAST ELEVATION
3/32" = 1'-0"

0' 4' 8' 16' 32'

ELEVATION KEY NOTES

1	BRICK FIELD - FOREST BLEND
2	BRICK SOLDIER - RAVEN
3	BRICK STILL - RAVEN
4	BRICK ACCENT BAND - RAVEN
5	WOOD RAINSCREEN - CEDAR
6	CEMENT PANEL W/ REGLET REVEAL - HARDI
7	METAL FLASHING - BLACK
8	STEEL CANOPY - BLACK, SEE DETAIL
9	WINDOWS - SEE SCHEDULE
10	STORE FRONT - SEE SCHEDULE
11	METAL RAILING - BLACK, SEE DETAIL
12	LIGHT FIXTURES - SEE ELECTRICAL SCHEDULE
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14	METAL SUNSHADE - SEE DETAIL
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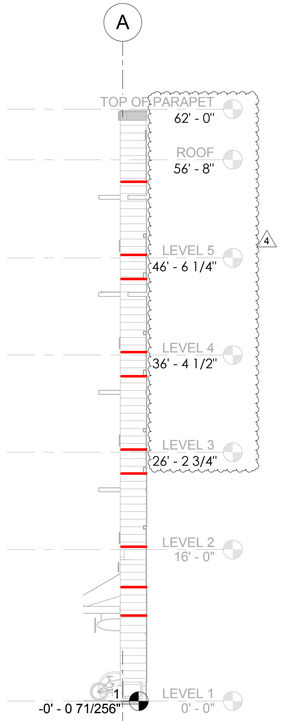
ELEVATIONS

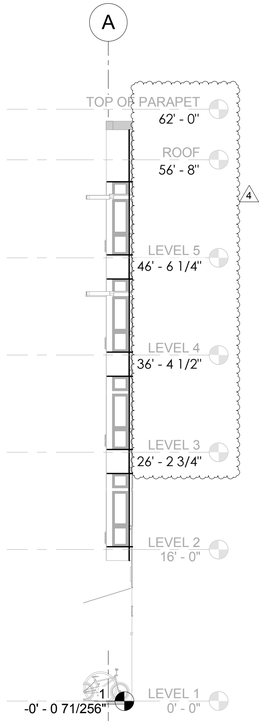
A3.02

NOTE: ALIGN SIDING PANEL BREAKS WITH EDGE OF WINDOW, TYPICAL

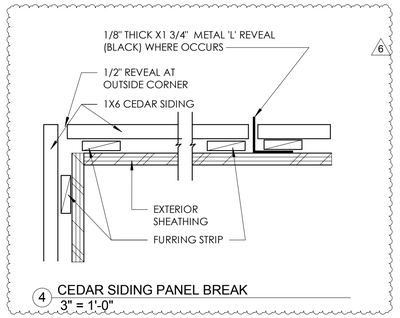
1 SOUTH ELEVATION PANEL BREAKS
3/32" = 1'-0"



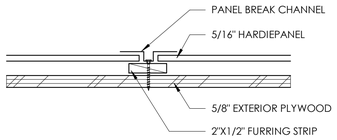
5 REVEAL A (TYPICAL)
1/8" = 1'-0"



6 Elevation 3 - a
1/8" = 1'-0"



4 CEDAR SIDING PANEL BREAK
3" = 1'-0"



3 HARDIEPANEL BREAK
3" = 1'-0"

NOTE: ALIGN SIDING PANEL BREAKS WITH EDGE OF WINDOW, TYPICAL

2 WEST ELEVATION PANEL BREAKS
3/32" = 1'-0"

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Community Planning & Development Department
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TOWNZEN & ASSOCIATES
PLAN APPROVAL
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09/17/2019

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

1	REVISION 1. 01-31-2019
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2R	RESPONSE TO COMMENTS. 03-20-2019
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4	REVISION 4. 07-08-2019
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

ELEVATIONS

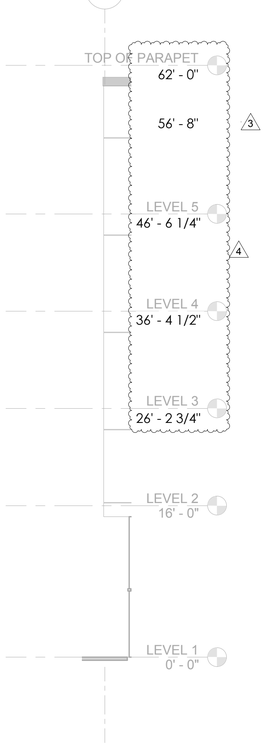
A3.03

NOTE: ALIGN SIDING PANEL BREAKS WITH EDGE OF WINDOW, TYPICAL

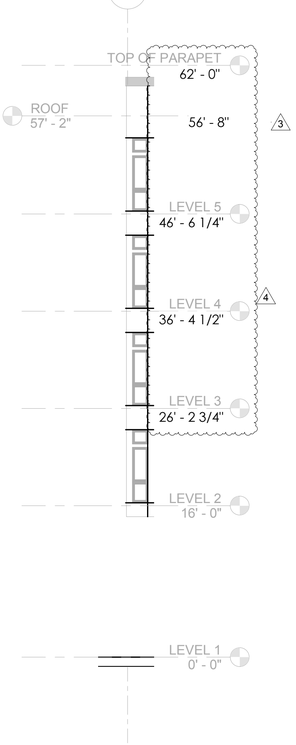
1 NORTH ELEVATION-MAIN BLDG PANEL BREAKS
3/32" = 1'-0"

NOTE: ALIGN SIDING PANEL BREAKS WITH EDGE OF WINDOW, TYPICAL

2 EAST ELEVATION PANEL BREAK
3/32" = 1'-0"



4 Elevation 2 - c
1/8" = 1'-0"



3 Elevation 1 - c
1/8" = 1'-0"

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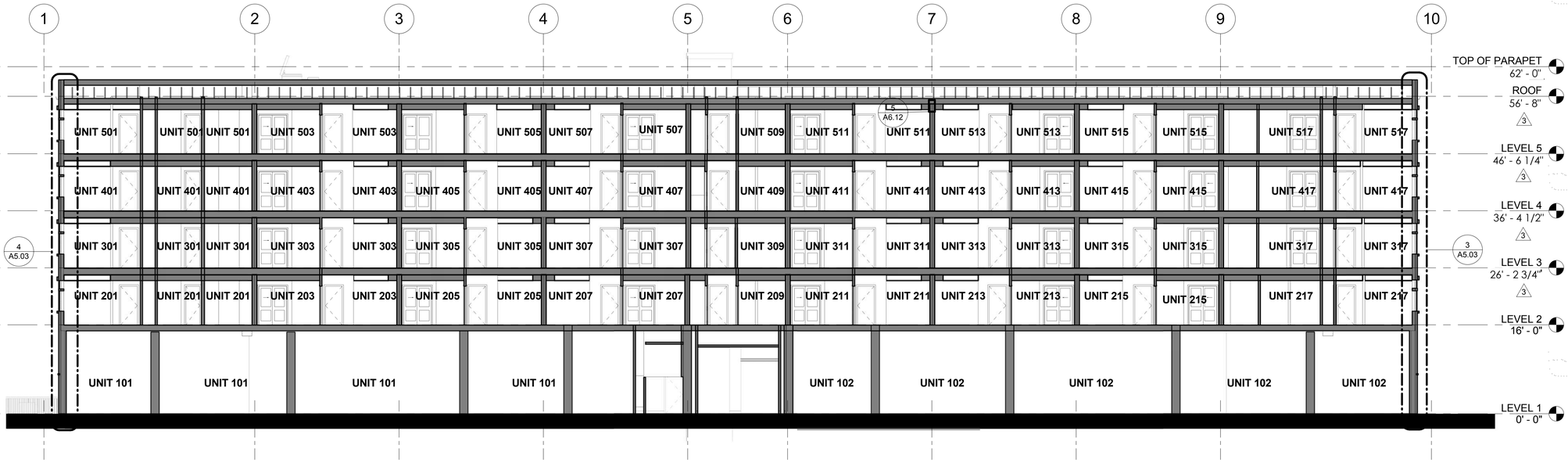
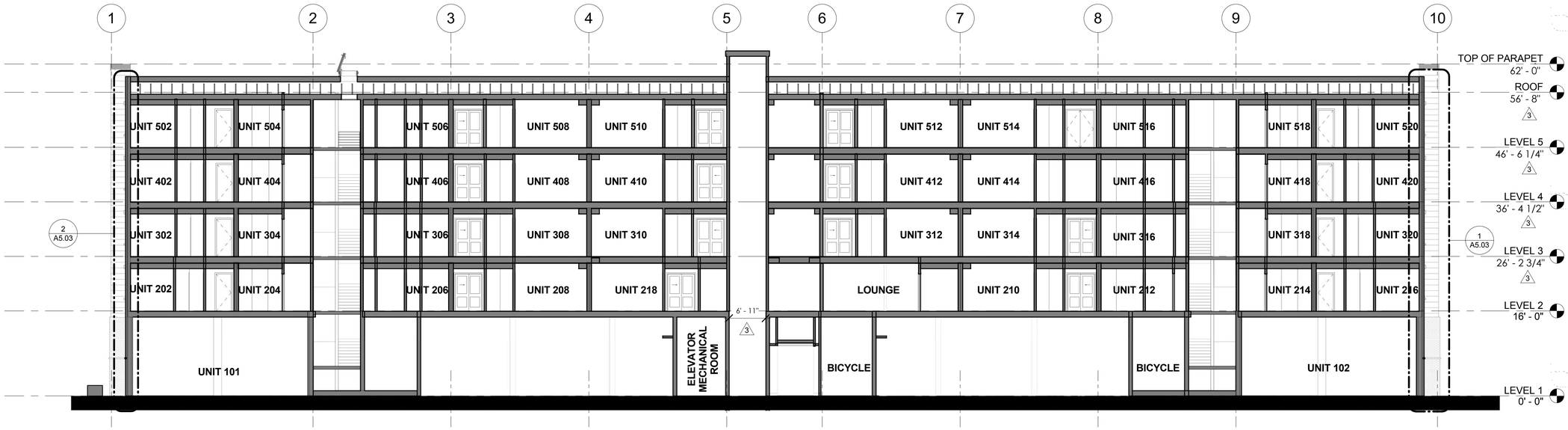
ELEVATION

A3.04



1 SECTION - WEST/EAST BUILDING KEY

3/32" = 1'-0"



2 SECTION - WEST/EAST BUILDING KEY1

3/32" = 1'-0"

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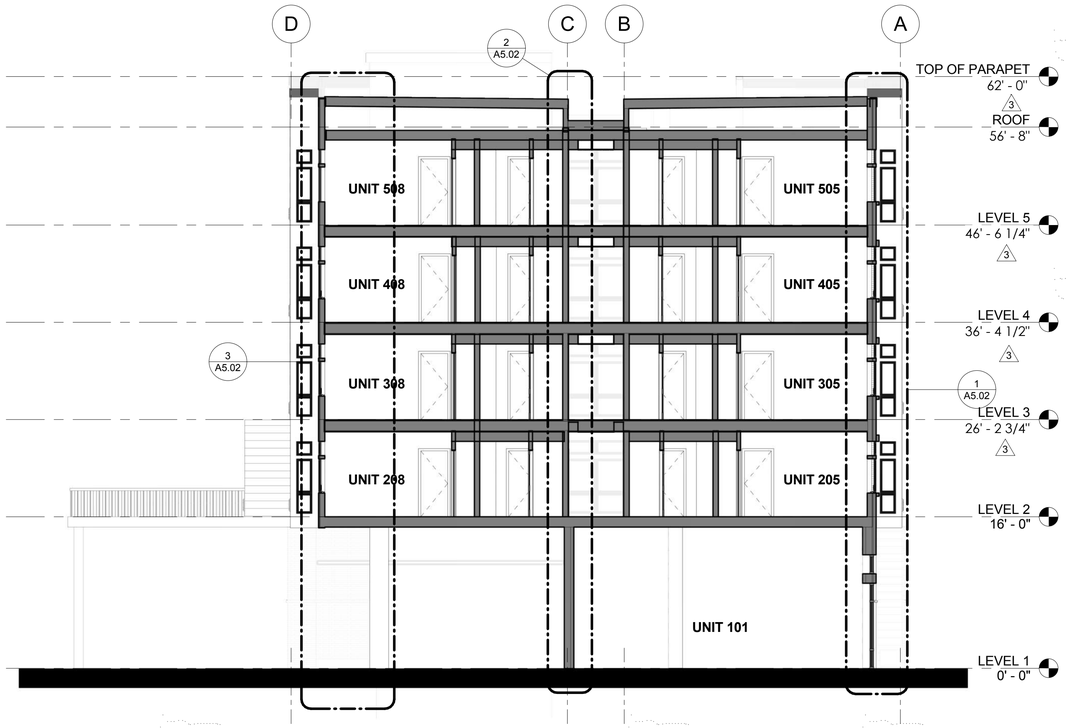
6	REVISION 6. 09-03-2019

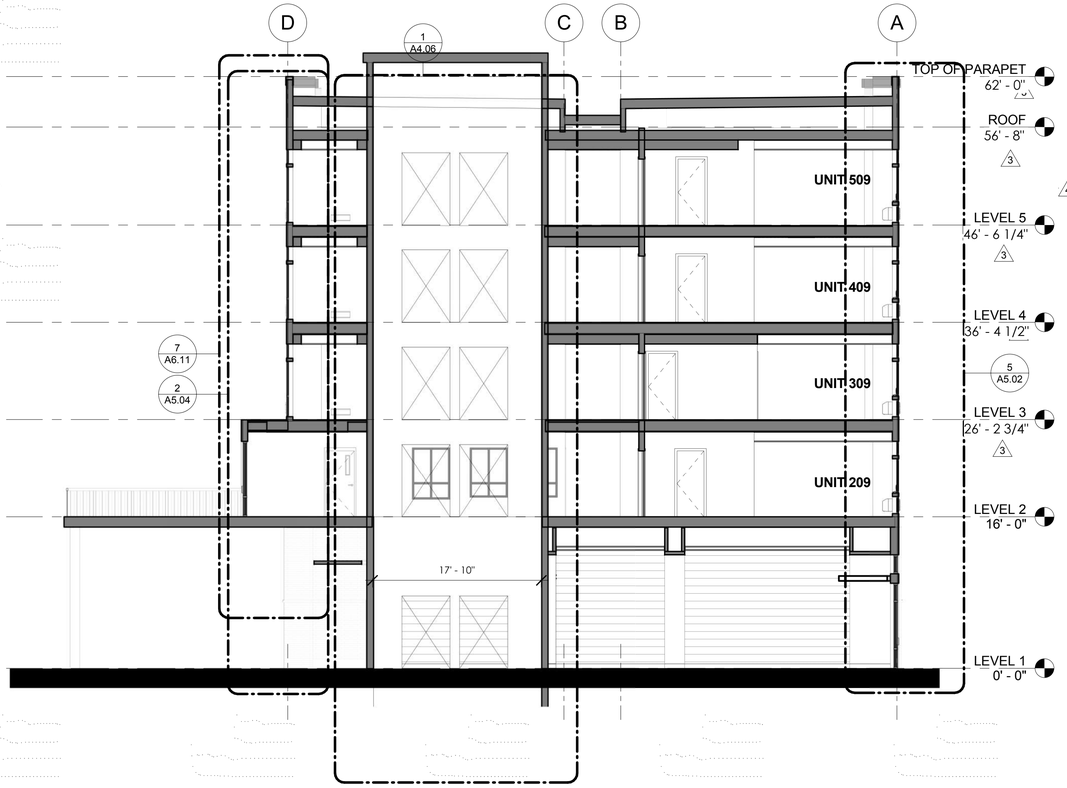
SECTIONS

A4.01



4 SECTION - NORTH/SOUTH WALL A

1/8" = 1'-0"



3 SECTION - NORTH/SOUTH WALL B

1/8" = 1'-0"

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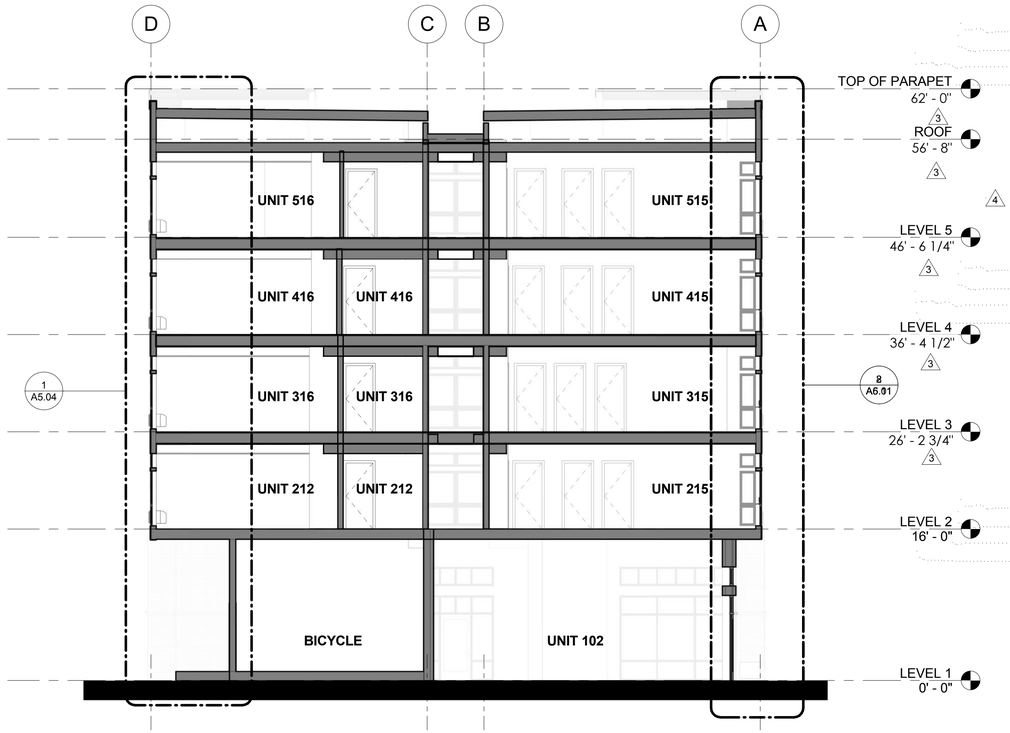
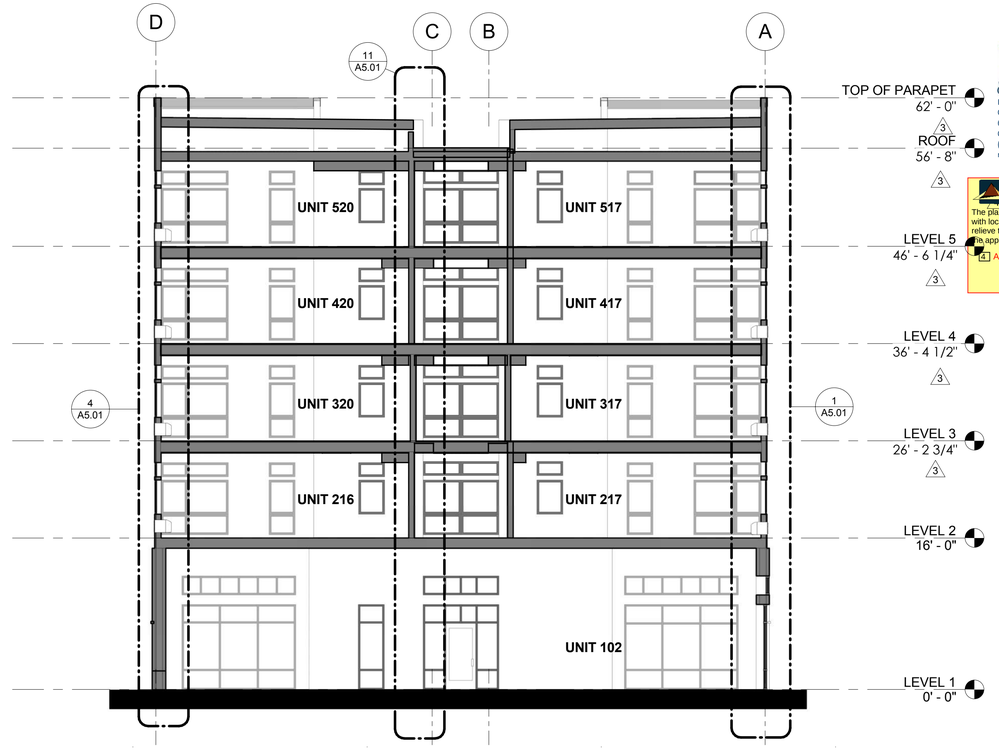
SECTIONS

A4.02



2 SECTION - NORTH/SOUTH WALL C

1/8" = 1'-0"



1 SECTION - NORTH/SOUTH WALL D

1/8" = 1'-0"

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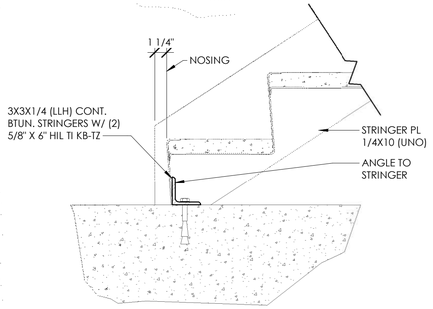
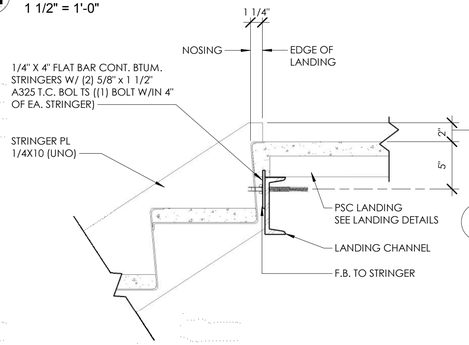
SECTIONS

A4.03

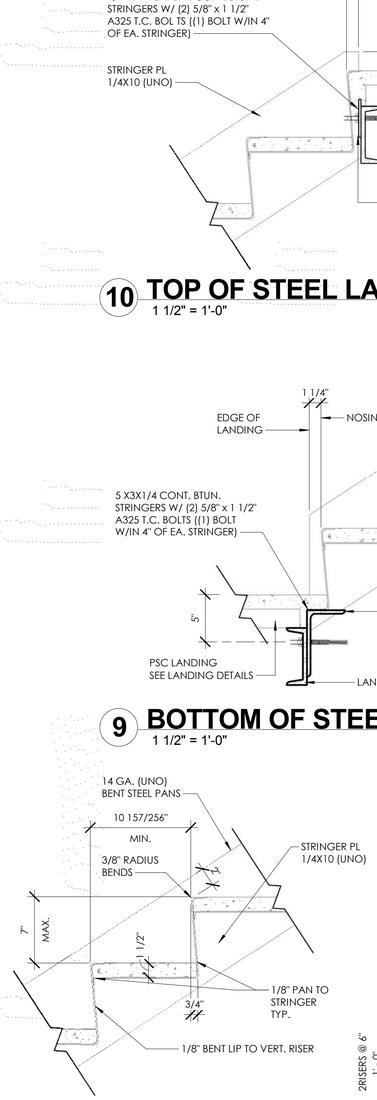


11 CONNECTION TO SLAB
1 1/2" = 1'-0"

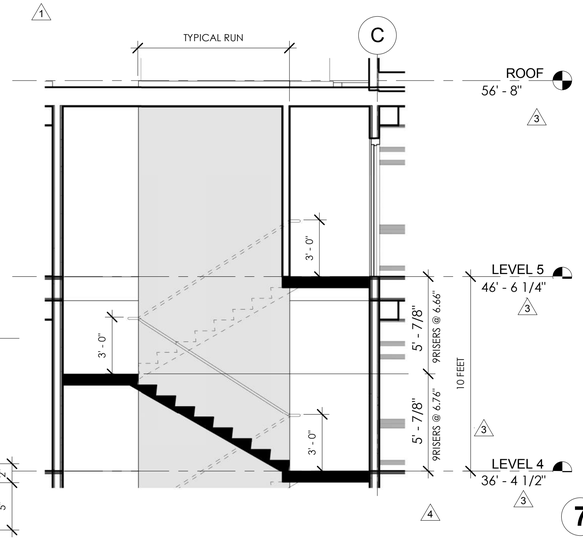


10 TOP OF STEEL LANDING
1 1/2" = 1'-0"

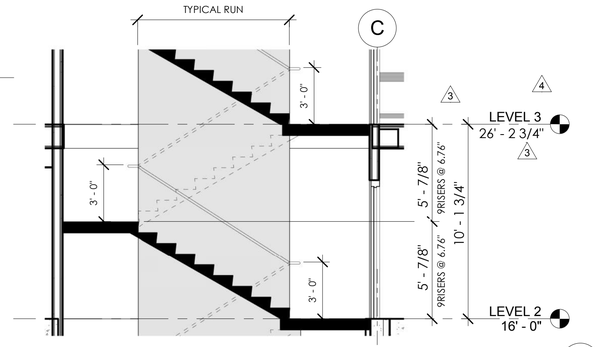
9 BOTTOM OF STEEL LANDING
1 1/2" = 1'-0"



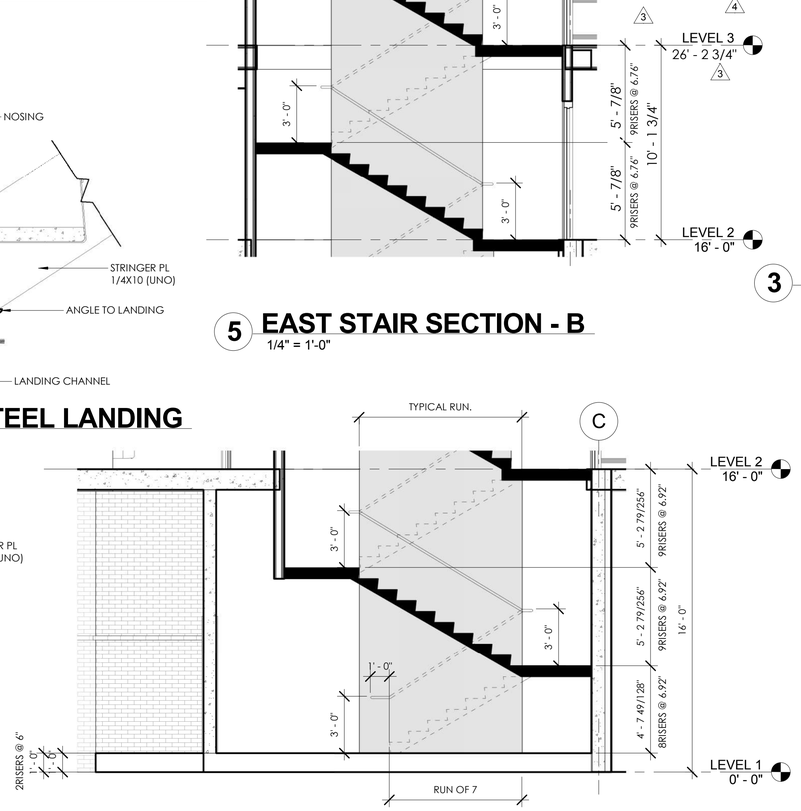
8 STEEL TREAD/RISER
1 1/2" = 1'-0"



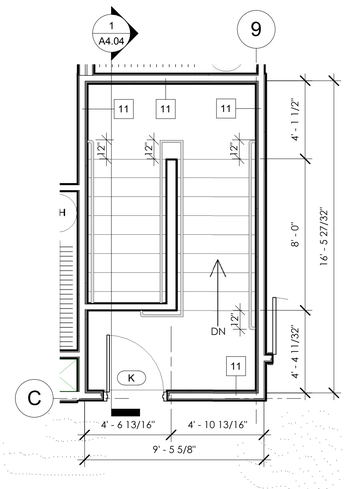
6 EAST STAIR SECTION - A
1/4" = 1'-0"



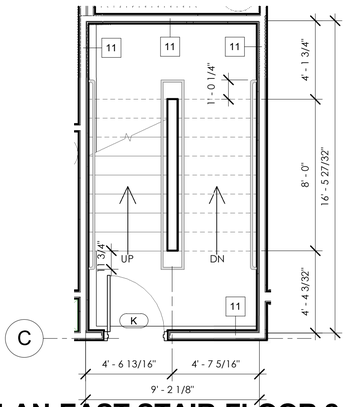
5 EAST STAIR SECTION - B
1/4" = 1'-0"



4 EAST STAIR SECTION - C
1/4" = 1'-0"

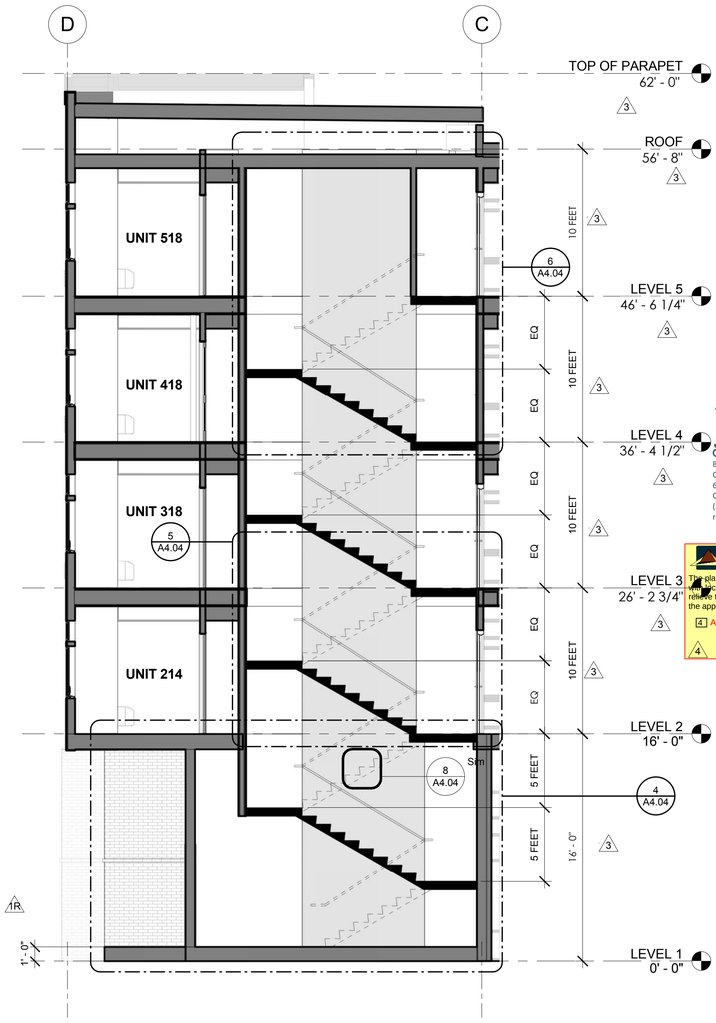


7 PLAN-EAST STAIR-FLOOR 5
1/4" = 1'-0"



3 PLAN-EAST STAIR-FLOOR 2-4 TYP.
1/4" = 1'-0"

2 PLAN-EAST STAIR-FLOOR 1 TYP.
1/4" = 1'-0"



1 EAST STAIR SECTION
3/16" = 1'-0"

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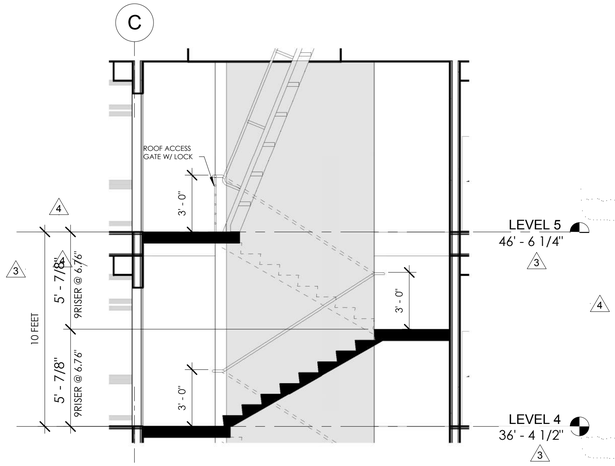
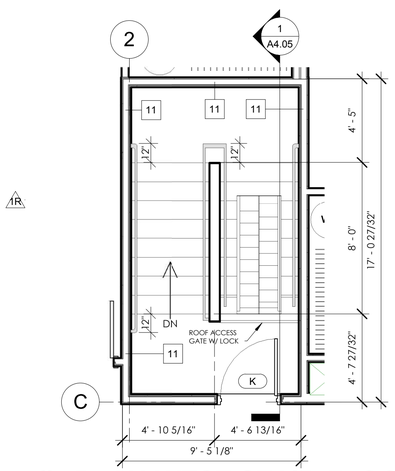
SECTIONS - EAST STAIR

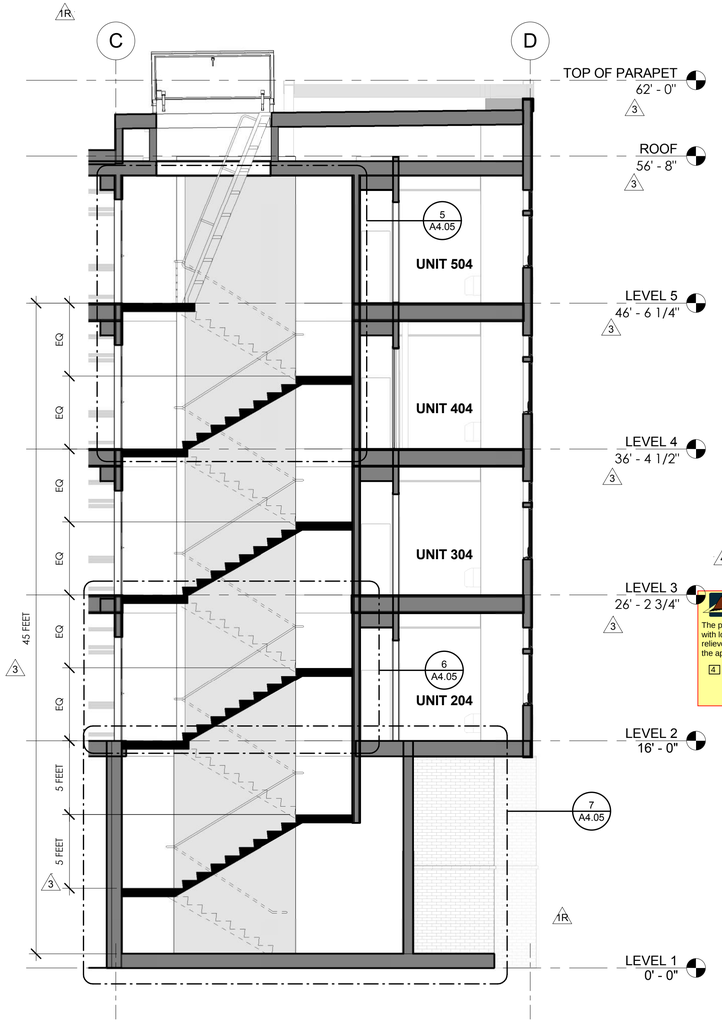
1R
A4.04



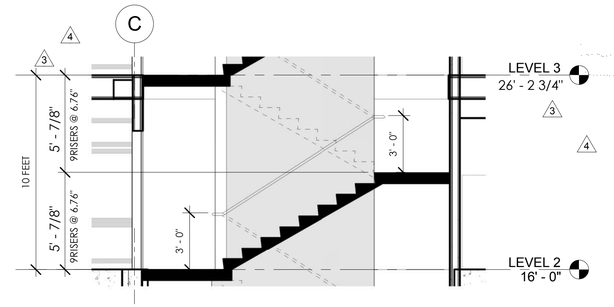
5 WEST STAIR SECTION - A
1/4" = 1'-0"



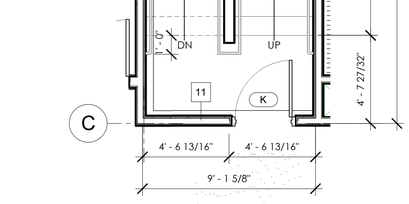
4 PLAN-WEST STAIR-FLOOR 5
1/4" = 1'-0"



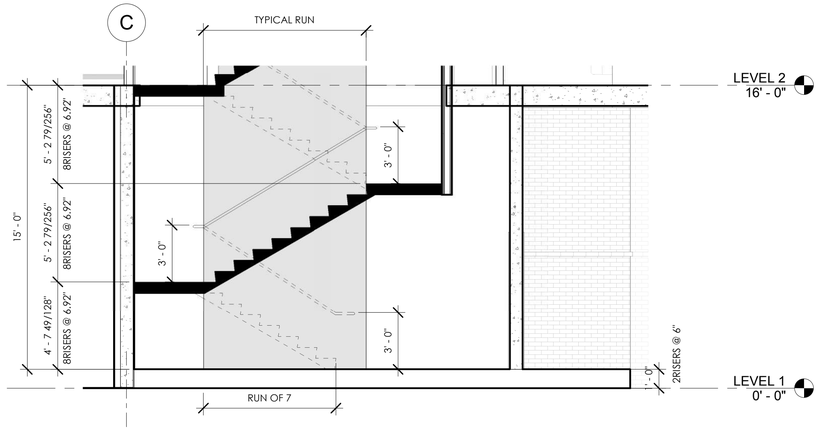
1 Section 21
3/16" = 1'-0"



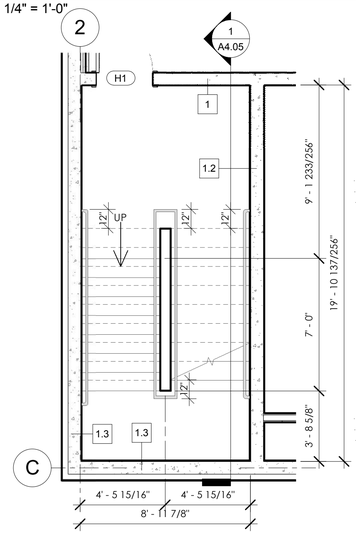
6 WEST STAIR SECTION - B
1/4" = 1'-0"



3 PLAN-WEST STAIR-FLOOR 2-4 TYPICAL
1/4" = 1'-0"



7 WEST STAIR SECTION - C
1/4" = 1'-0"



2 PLAN-WEST STAIR-FLOOR 1TYPICAL
1/4" = 1'-0"

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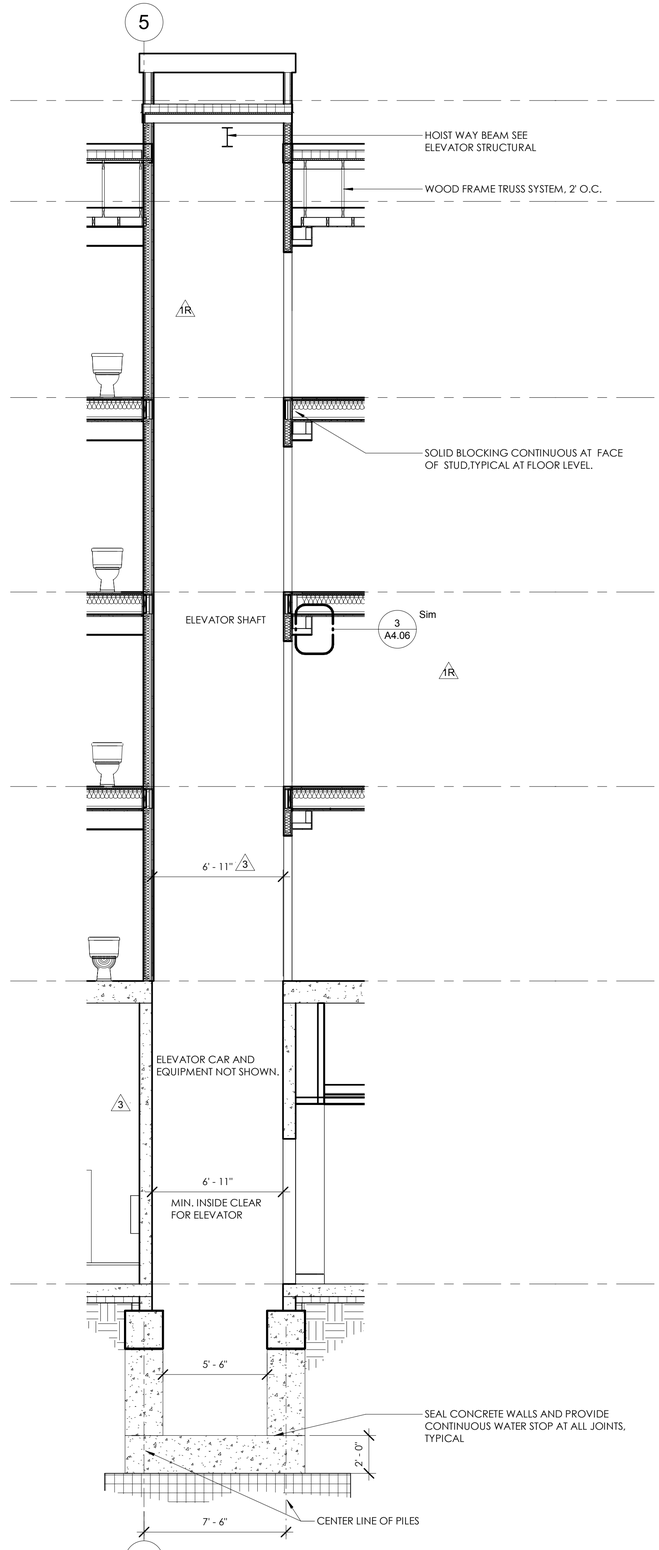
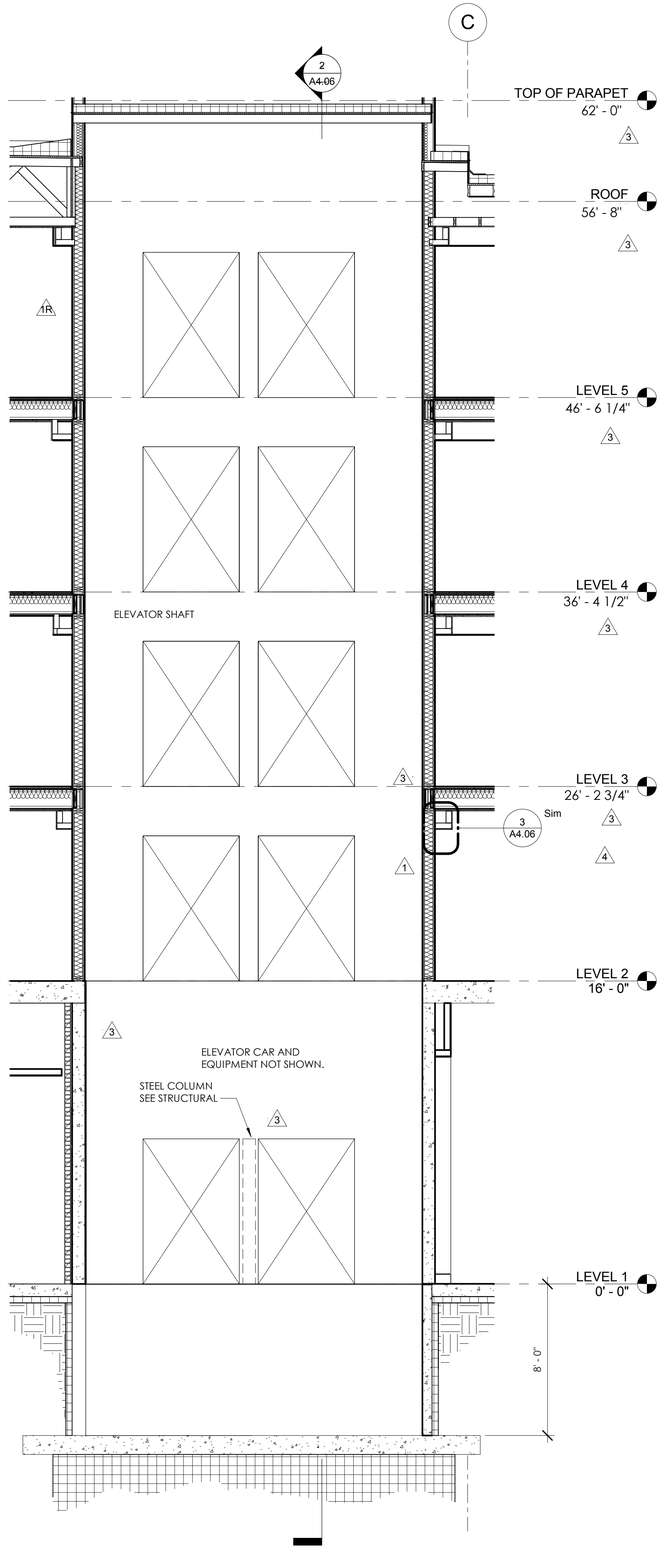
SECTIONS - WEST STAIR

A4.05

3 CEILING CHASE
1" = 1'-0"



2 SECTION - ELEVATOR @ NORTH ELEVATION
1/4" = 1'-0"



1 SECTION- ELEVATOR @ EAST ELEVATION
1/4" = 1'-0"

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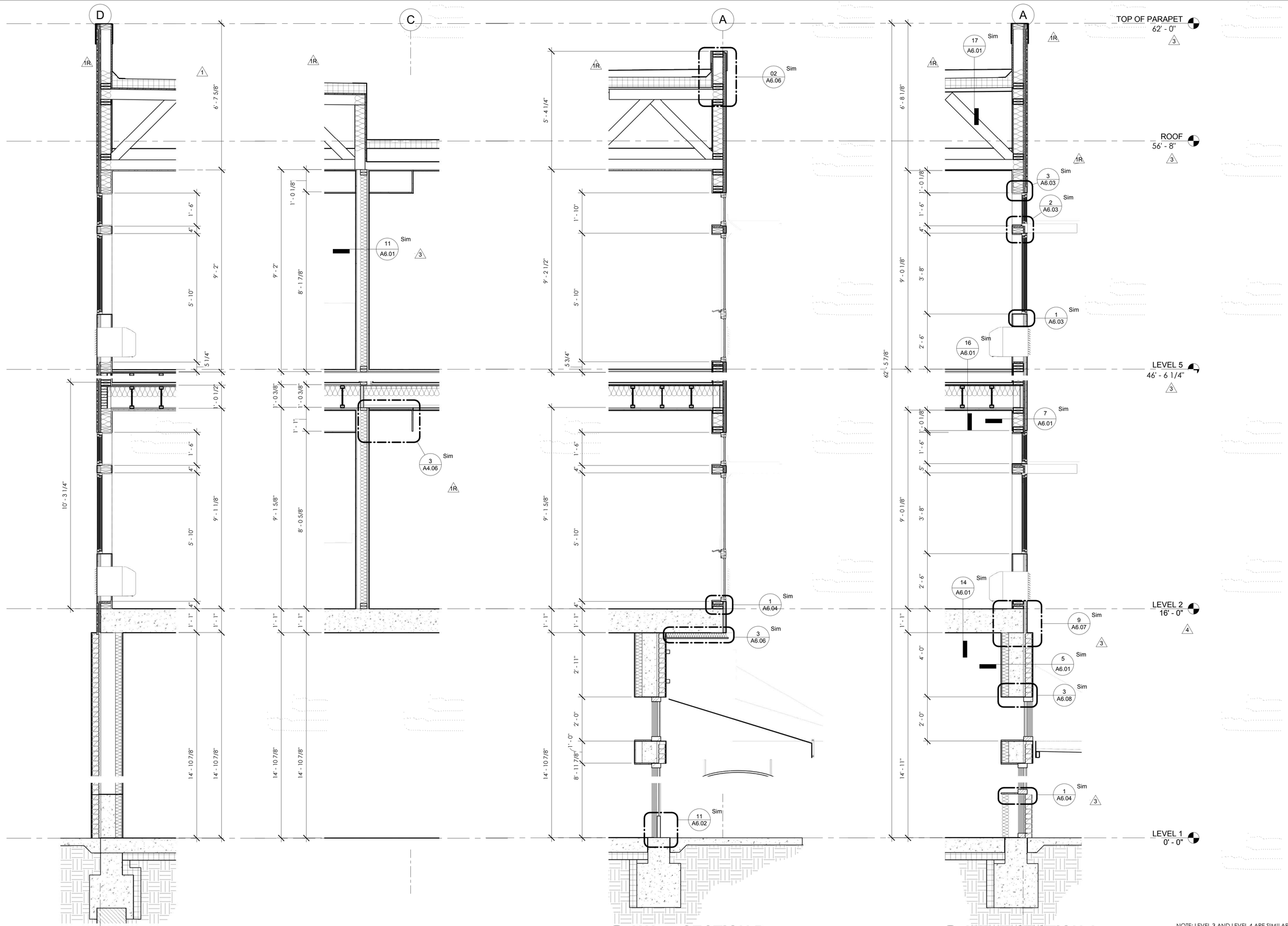
ELEVATOR SECTIONS

A4.06



NOTE: LEVEL 3 AND LEVEL 4 ARE SIMILAR TO LEVEL 2.

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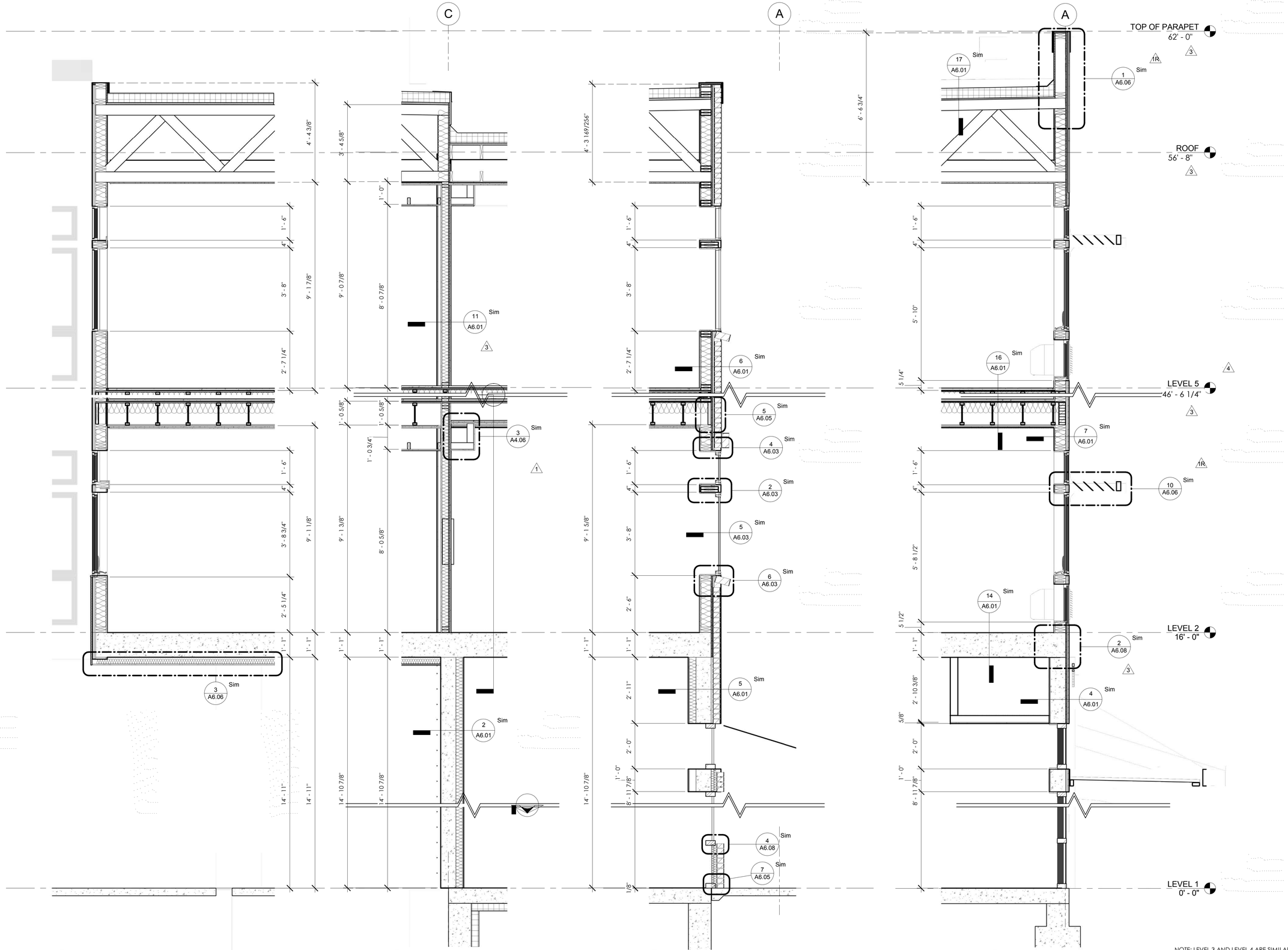
WALL SECTIONS

A5.01



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

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

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

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

NOTE: LEVEL 3 AND LEVEL 4 ARE SIMILAR TO LEVEL 2.

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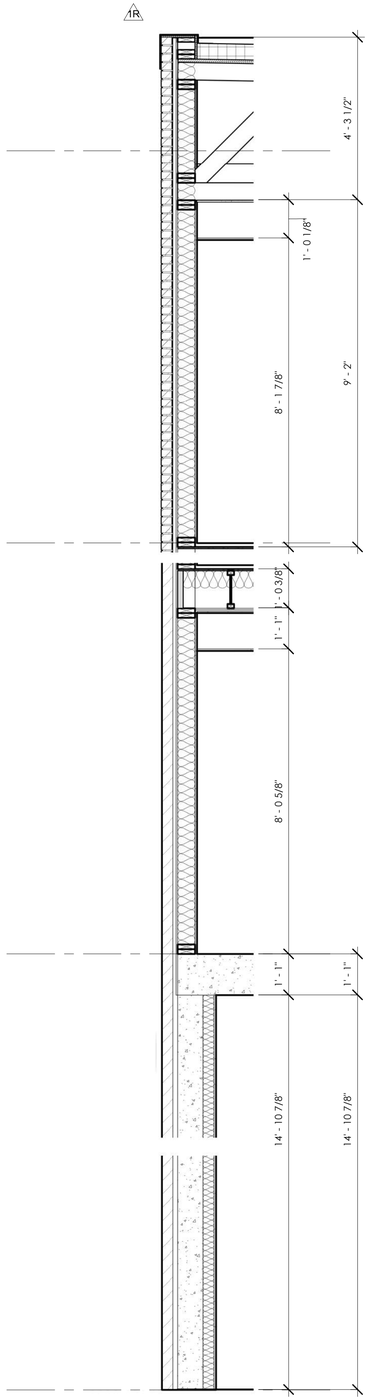
09/09/2019

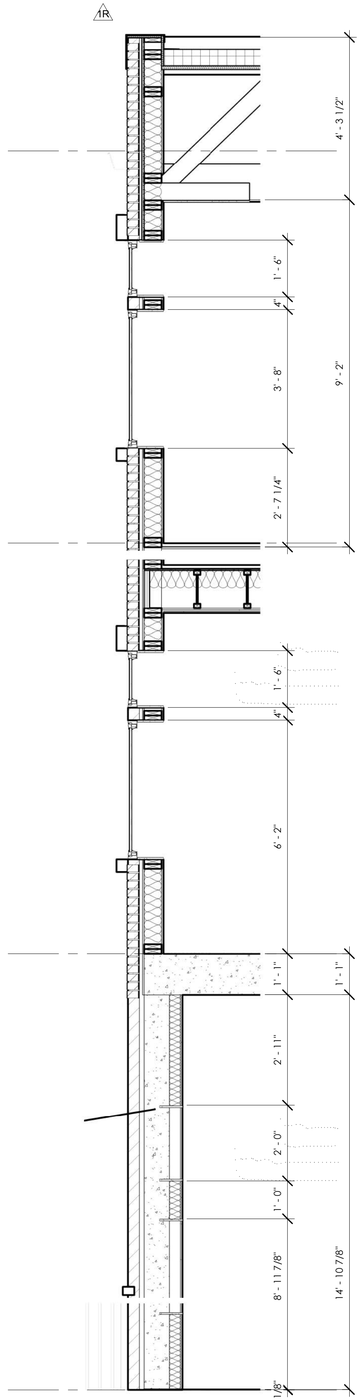
1	REVISION 1. 01-31-2019
1R	RESPONSE TO COMMENTS. 01-31-2019
2R	RESPONSE TO COMMENTS. 03-20-2019
3	REVISION 3. 06-13-2019
4	REVISION 4. 07-08-2019
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

WALL SECTIONS

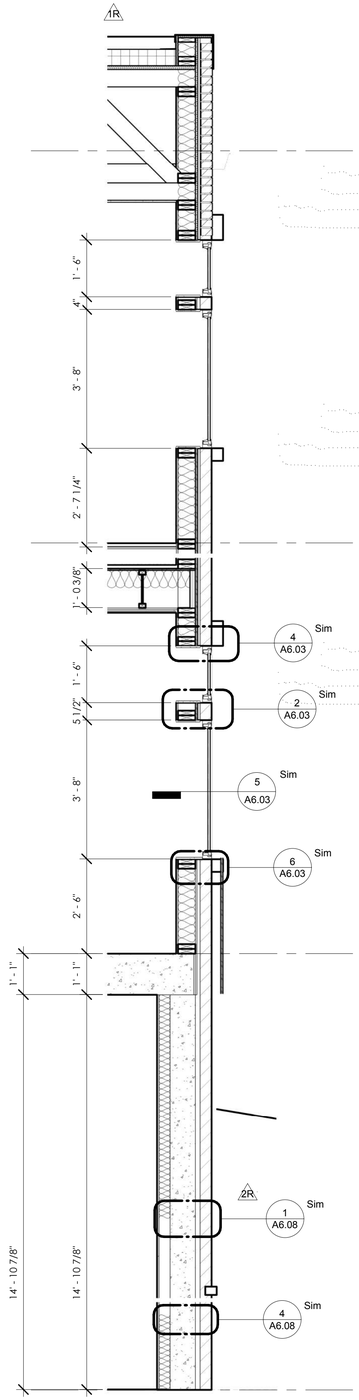
A5.02



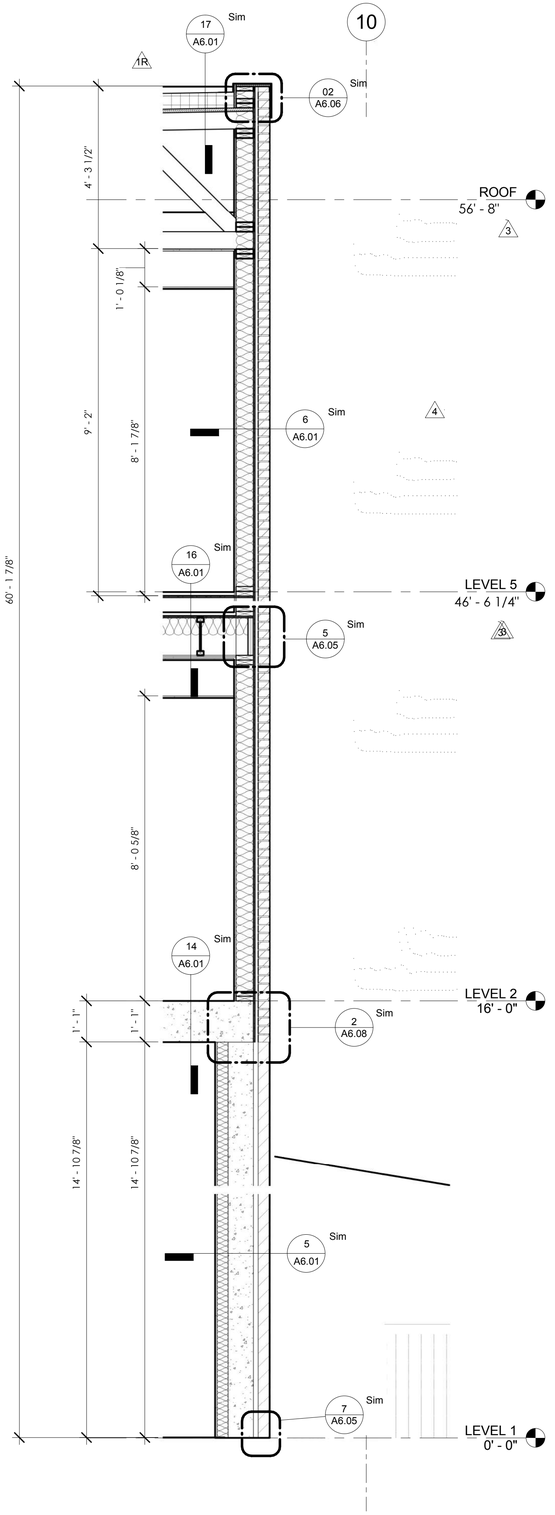
2 SECTION O
1/2" = 1'-0"



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



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



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

NOTE: LEVEL 3 AND LEVEL 4 ARE SIMILAR TO LEVEL 2.

THOMAS
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4295 REGISTERED ARCHITECT
RONALD S. THOMAS
STATE OF WASHINGTON

Olympia
Reviewed for Code Compliance
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Building Plans Examiner
Community Planning & Development Department
601 4th Ave East
Olympia, WA 98501
(360) 753-8248
rbalders@ci.olympia.wa.us

TOWNZEN & ASSOCIATES
PLAN APPROVAL
The plans submitted for review are approved in accordance with local state applicable standards. This approval does not relieve the applicant of the responsibility of compliance with the applicable codes.
4 Approved as submitted.
09/17/2019

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

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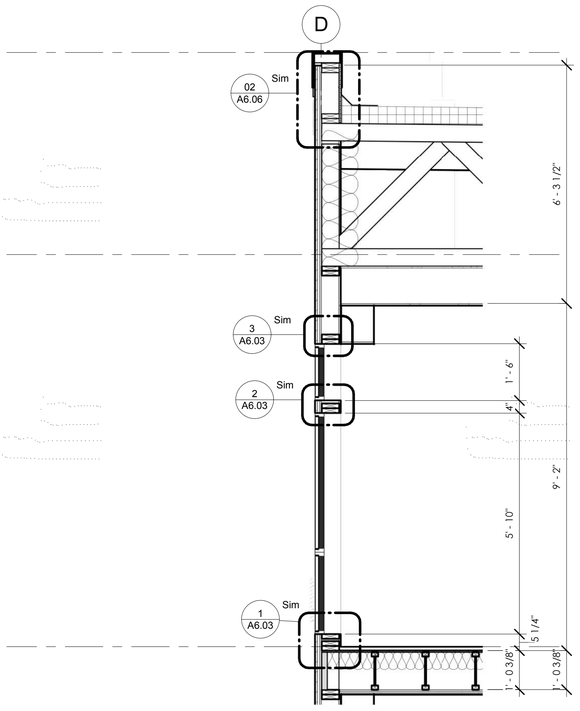
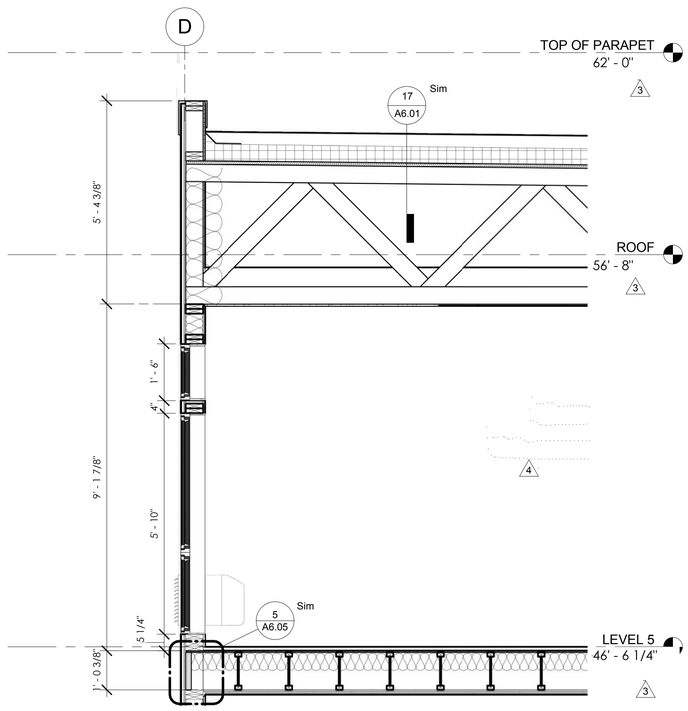
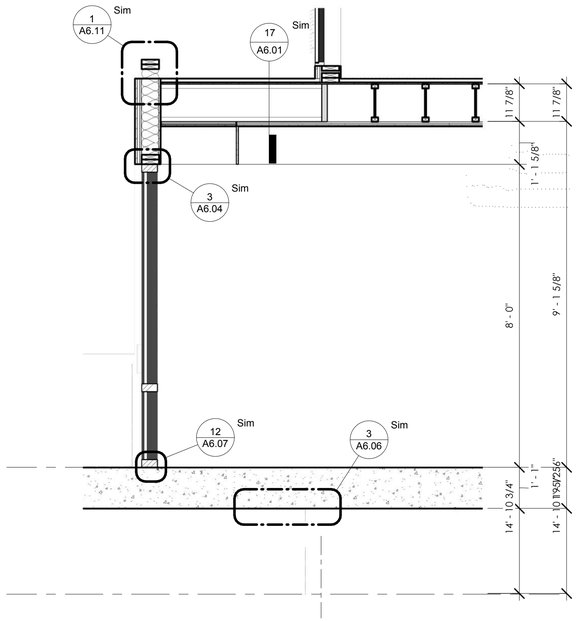
6	REVISION 6. 09-03-2019

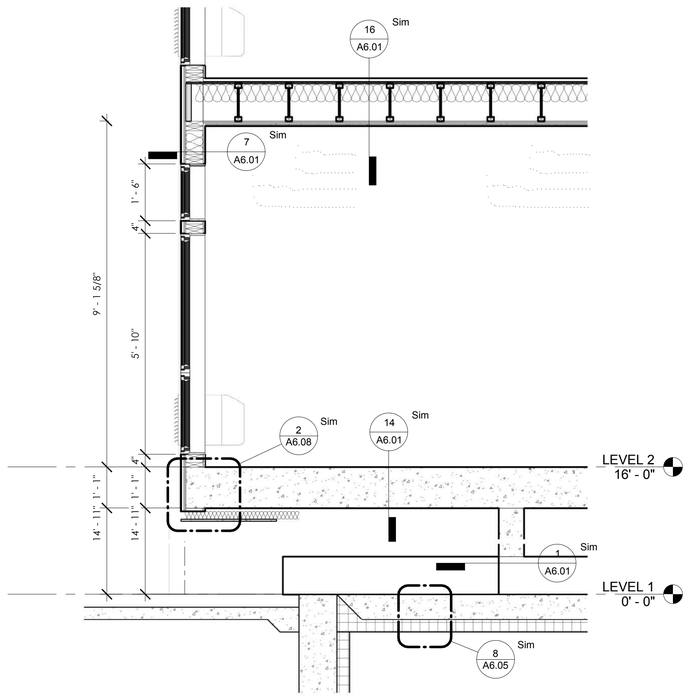
WALL SECTIONS

A5.03









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

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

NOTE: LEVEL 3 AND LEVEL 4 ARE SIMILAR TO LEVEL 2.

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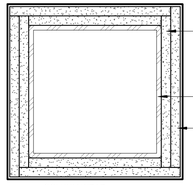
WALL SECTION

A5.04



TWO LAYERS 1/2" TYPE 'X' GWB APPLIED AROUND COLUMN AND HELD IN PLACE WITH PAPER MASKING TAPE.

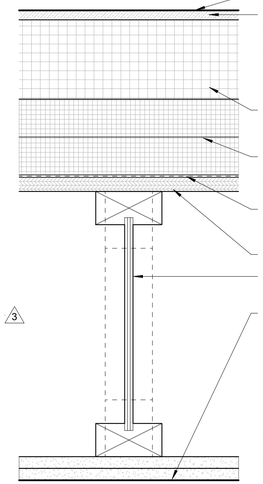
STEEL COLUMN PER STRUCTURAL MIN. 4"X4" PER UL X526

24 ga. GALVANIZED STEEL COLUMN COVER CONSISTING OF TWO L-SHAPED SECTIONS WITH SNAP-LOCK SHEET STEEL JOINTS.

COLUMN WRAP

NOTE: UL X526

18 COLUMN WRAP (1 HR)
3" = 1'-0"



ROOF IS CLASS "C".

2-PLY SBS MODIFIED BITUMEN ROOFING SYSTEM W/ PMMA FLASHING AT PENETRATIONS OVER DENSDECK PRIME COVER BOARD. SOPREMA SOPRALENE FLAM 180 AND SOPREALEN FLAM 180 FR GR, W/ ALSAN RS OR APPROVED EQUAL.

4" MINIMUM HIGH DENSITY MINERAL WOOL INSULATION, ADHERED TO POLYISO

2 LAYERS OF 2" POLYISOCYANURATE INSULATION, MECHANICALLY FASTENED, TAPERED FOR SLOPE.

FULLY ADHERED AIR AND VAPOR BARRIER MEMBRANE, SOPREMA SOPRAVAP'R OR EQUAL

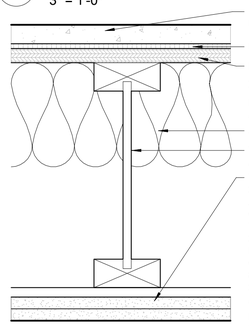
PLYWOOD SHEATHING PER STRUCTURAL

ENGINEERED ROOF PER STRUCTURAL

TWO LAYERS 5/8" TYPE X GWB APPLIED AT RIGHT ANGLES TO JOISTS, BASE LAYER INSTALLED W/ 1 1/4" TYPE 'S' SCREWS, SPACED 24" O.C. FACE LAYER ATTACHED THROUGH BASE LAYER WITH 1-7/8" TYPE 'S' SCREWS AT 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS. FACE LAYER TYPE 'G' DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS, 12" O.C.

NOTE:
UL P522, GA FILE NO. RC 2604

17 ROOF CEILING ASSEMBLY
3" = 1'-0"



1" MINIMUM LEVELROCK FLOOR UNDERLAYMENT

USG SRM-25 SOUND MAT

PLYWOOD SHEATHING PER STRUCTURAL, APPLIED AT RIGHT ANGELS TO JOISTS WITH CONSTRUCTION ADHESIVE AND 6d RING SHANK NAILS AT 12" O.C. MINIMUM

5 1/2" MINERAL FIBER SOUND INSULATION

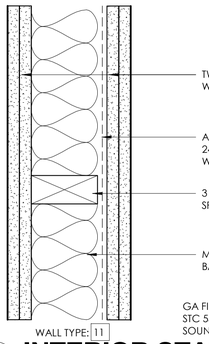
WOOD JOISTS PER STRUCTURAL, MINIMUM 9-1/2" "I" JOIST AT 24" O.C.

TWO LAYERS 1/2" PROPRIETARY GWB - SHEETROCK BRAND FIRE CODE C, APPLIED AT RIGHT ANGLES TO RESILIENT FURRING CHANNELS, BASE LAYER INSTALLED W/ 1" TYPE 'S' SCREWS TO RESILIENT CHANNEL, SPACED 8" O.C. AT BUTT JOINTS, 16" IN FIELD. FACE LAYER ATTACHED TO CHANNEL WITH 1-5/8" TYPE 'S' SCREWS AT 8" O.C. AND 1-1/2" TYPE 'G' SCREWS SPACED 8" O.C. AT BUTT JOINTS LOCATED MID-SPAN BETWEEN CHANNELS.

NOTE: PROVIDE DRAFT STOPPING IN FLOORING PER IBC 718.3

NOTE: GA FILE No. FC 5011, UL No. L570, STC RATING 64-58

16 FLOOR ASSEMBLY (1HR)
3" = 1'-0"



TWO LAYERS OF 5/8" GYPSUM WALL BOARD ON BOTH SIDES

ADD RESILIENT CHANNEL 24" O.C ON ONE SIDE OF WALL FOR STC RATING

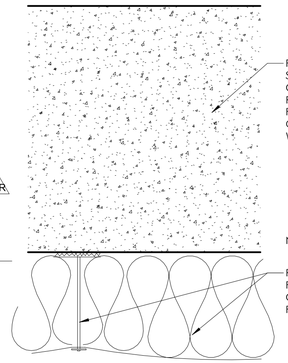
3 1/2" USG C STUDS, 25 GA. SPACED 24" O.C.

MIN. 3" MINERAL FIBER BATT INSULATION

WALL TYPE: 11

GA FILE NO. WP 3825, UL 301, (2 HR) STC 55-59
SOUND TEST RAL TL11-164, 7-12-11

15 INTERIOR STAIR WALL 2HR
3" = 1'-0"

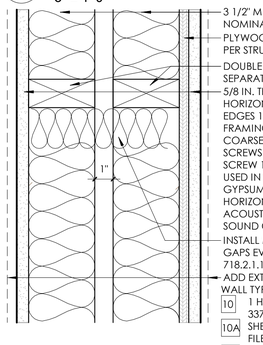


POST TENSIONED CONCRETE SLAB PER STRUCTURAL. PROVIDE 2" MINIMUM CONCRETE COVER OVER ALL REINFORCING TO MAINTAIN 3 HOUR FIRE RATING. PROVIDE 2-1/2" INCHES OF COVER AT ALL IN SLAB BEAMS WIDER THEN 12".

NOTE: 11" P.T. @ DECK SEE STRUCTURAL

R-30 MINERAL FIBER INSULATION FASTEN TO UNDERSIDE OF ALL CONDITIONED SPACES WITH STICK-PIN FASTENERS

14 P.T. SLAB - INTERIOR (3 HOUR)
3" = 1'-0"



3 1/2" MINERAL FIBER SOUND INSULATION NOMINAL 2.5 PCF, FRICTION FIT IN STUD SPACE

PLYWOOD SHEATHING WHERE CALLED FOR PER STRUCTURAL AT WALL TYPE 10A

DOUBLE ROW OF 2x4 WOOD STUDS 16" O.C. ON SEPARATE PLATES 1" APART, PER STRUCTURAL

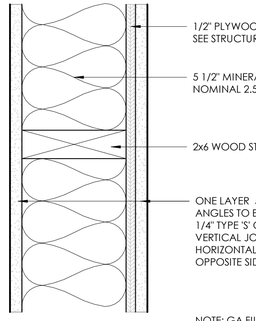
5/8 IN. THICK GYPSUM PANELS, APPLIED EITHER HORIZONTALLY OR VERTICALLY. OFFSET PANEL EDGES 16" O.C. GYPSUM PANELS FASTENED TO FRAMING WITH 1-1/4 IN. LONG TYPE W COARSE THREAD GYPSUM PANEL STEEL SCREWS SPACED A MAX 8 IN. OC. WITH LAST SCREW 1 IN. FROM EDGE OF BOARD. WHEN USED IN WIDTHS OF OTHER THAN 48 IN., GYPSUM BOARDS ARE TO BE INSTALLED HORIZONTALLY. APPLY A BEAD OF ACOUSTICAL SEALANT AT PERIMETER FOR SOUND CONTROL.

INSTALL MINERAL FIBER INSULATION TO SEAL GAPS EVERY 10' O.C. HORIZ. + VERT. PER IBC 718.2.1.1

ADD EXTRA LAYER TYPE X GWB AT WAL TYPE 10B

WALL TYPES:
10 1 HOUR FIRE RATING (TYP.) GA FILE NO. 3370, NRC TL 93-266 STC 56
10A SHEARWALL: 1 HOUR FIRE RATING: GA FILE NO. WP 3370, NRC TL 93-266 STC 56
10B 2 HOUR FIRE RATING: GA FILE NO. 3820, STC 55-59

13 DEMISING WALL 1HR
3" = 1'-0"



1/2" PLYWOOD SHEATHING WHERE OCCURS, SEE STRUCTURAL

5 1/2" MINERAL FIBER SOUND INSULATION NOMINAL 2.5 PCF, FRICTION FIT IN STUD SPACE

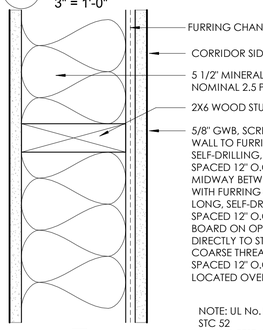
2x6 WOOD STUDS PER STRUCTURAL

ONE LAYER 5/8" TYPE 'X' GWB APPLIED AT RIGHT ANGLES TO EACH SIDE OF 2x6 WOOD STUDS WITH 2 1/4" TYPE 'S' OR 'W' DRYWALL SCREWS 12" O.C., VERTICAL JOINTS STAGGERED 16" O.C., HORIZONTAL JOINTS STAGGERED 24" O.C., ON OPPOSITE SIDES.

WALL TYPE: 9

NOTE: GA FILE No. WP 3661 SIMILAR

12 INTERIOR 2X6 SHEAR WALL
3" = 1'-0"



FURRING CHANNEL

CORRIDOR SIDE

5 1/2" MINERAL FIBER SOUND INSULATION NOMINAL 2.5 PCF, FRICTION FIT IN STUD SPACE

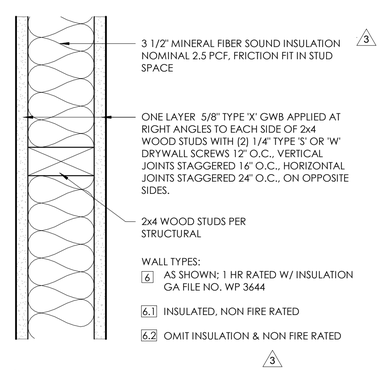
2X6 WOOD STUDS PER STRUCTURAL, 16" O.C.

5/8" GWB, SCREW ATTACHED ON ONE SIDE OF WALL TO FURRING CHANNELS WITH 1 IN. LONG, SELF-DRILLING, SELF-TAPPING STEEL SCREWS SPACED 12" O.C., VERTICAL JOINTS LOCATED MIDWAY BETWEEN STUDS AND BACK BLOCKED WITH FURRING CHANNELS, ATTACHED WITH 1" LONG, SELF-DRILLING, SELF-TAPPING SCREWS, SPACED 12" O.C., ALONG EACH EDGE, GYPSUM BOARD ON OPPOSITE SIDE OF WALL ATTACHED DIRECTLY TO STUDS WITH 1-1/4" LONG TYPE 'W' COARSE THREAD GYPSUM PANEL STEEL SCREWS SPACED 12" O.C., VERTICAL JOINTS SHALL BE LOCATED OVER STUDS ON THIS SIDE OF WALL.

WALL TYPE 8

NOTE: UL No. U311, (1HR) 1R
STC 52
SOUND TEST: SA-830702

11 CORRIDOR WALL 2X6 1HR
3" = 1'-0"



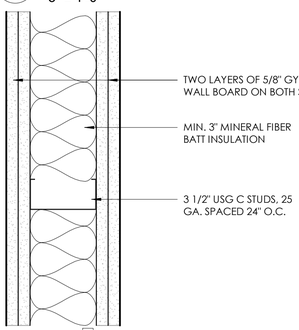
3 1/2" MINERAL FIBER SOUND INSULATION NOMINAL 2.5 PCF, FRICTION FIT IN STUD SPACE

ONE LAYER 5/8" TYPE 'X' GWB APPLIED AT RIGHT ANGLES TO EACH SIDE OF 2x4 WOOD STUDS WITH (2) 1/4" TYPE 'S' OR 'W' DRYWALL SCREWS 12" O.C., VERTICAL JOINTS STAGGERED 16" O.C., HORIZONTAL JOINTS STAGGERED 24" O.C., ON OPPOSITE SIDES.

2x4 WOOD STUDS PER STRUCTURAL

WALL TYPES:
6 AS SHOWN; 1 HR RATED W/ INSULATION GA FILE NO. WP 3644
6.1 INSULATED, NON FIRE RATED
6.2 OMIT INSULATION & NON FIRE RATED

10 2X4 WALL 1 HR
3" = 1'-0"



TWO LAYERS OF 5/8" GYPSUM WALL BOARD ON BOTH SIDES

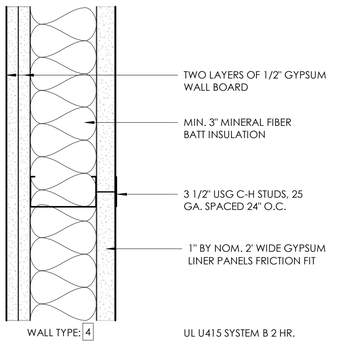
MIN. 3" MINERAL FIBER BATT INSULATION

3 1/2" USG C STUDS, 25 GA. SPACED 24" O.C.

WALL TYPE: 5

UL 308, 2 HR.

9 INTERIOR PARTITION-2HR
3" = 1'-0"



TWO LAYERS OF 1/2" GYPSUM WALL BOARD

MIN. 3" MINERAL FIBER BATT INSULATION

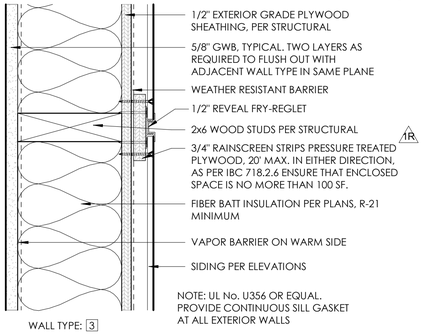
3 1/2" USG C-H STUDS, 25 GA. SPACED 24" O.C.

1" BY NOM. 2" WIDE GYPSUM LINER PANELS FRICTION FIT

WALL TYPE: 4

UL U415 SYSTEM B 2 HR.

8 SHAFT WALL SYSTEM-2HR
3" = 1'-0"



1/2" EXTERIOR GRADE PLYWOOD SHEATHING, PER STRUCTURAL

5/8" GWB, TYPICAL. TWO LAYERS AS REQUIRED TO FLUSH OUT WITH ADJACENT WALL TYPE IN SAME PLANE

WEATHER RESISTANT BARRIER

1/2" REVEAL FRY-REGLET

2x6 WOOD STUDS PER STRUCTURAL 1R

3/4" RAINSCREEN STRIPS PRESSURE TREATED PLYWOOD, 20' MAX. IN EITHER DIRECTION, AS PER IBC 718.2.6 ENSURE THAT ENCLOSED SPACE IS NO MORE THAN 100 SF.

FIBER BATT INSULATION PER PLANS, R-21 MINIMUM

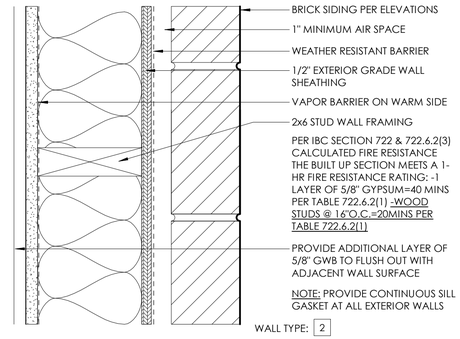
VAPOR BARRIER ON WARM SIDE

SIDING PER ELEVATIONS

NOTE: UL No. U356 OR EQUAL, PROVIDE CONTINUOUS SILL GASKET AT ALL EXTERIOR WALLS

WALL TYPE: 3

7 EXTERIOR SIDING (1 HR)
3" = 1'-0"



BRICK SIDING PER ELEVATIONS

1" MINIMUM AIR SPACE

WEATHER RESISTANT BARRIER

1/2" EXTERIOR GRADE WALL SHEATHING

VAPOR BARRIER ON WARM SIDE

2x6 STUD WALL FRAMING

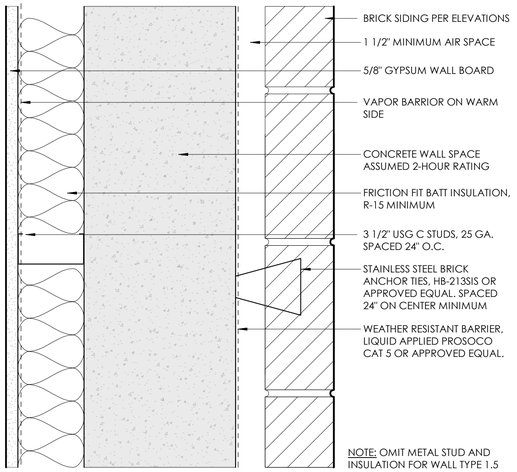
PER IBC SECTION 722 & 722.6.2(3) CALCULATED FIRE RESISTANCE THE BUILT UP SECTION MEETS A 1-HR FIRE RESISTANCE RATING: -1 LAYER OF 5/8" GYPSUM=40 MINS PER TABLE 722.6.2(1) -WOOD STUDS @ 16"O.C.=20MINS PER TABLE 722.6.2(1)

PROVIDE ADDITIONAL LAYER OF 5/8" GWB TO FLUSH OUT WITH ADJACENT WALL SURFACE

NOTE: PROVIDE CONTINUOUS SILL GASKET AT ALL EXTERIOR WALLS

WALL TYPE: 2

6 EXTERIOR MASONRY WALL 1HR
3" = 1'-0"



BRICK SIDING PER ELEVATIONS

1 1/2" MINIMUM AIR SPACE

5/8" GYPSUM WALL BOARD

VAPOR BARRIOR ON WARM SIDE

CONCRETE WALL SPACE ASSUMED 2-HOUR RATING

FRICTION FIT BATT INSULATION, R-15 MINIMUM

3 1/2" USG C STUDS, 25 GA. SPACED 24" O.C.

STAINLESS STEEL BRICK ANCHOR TIES, HB-213SIS OR APPROVED EQUAL. SPACED 24" ON CENTER MINIMUM

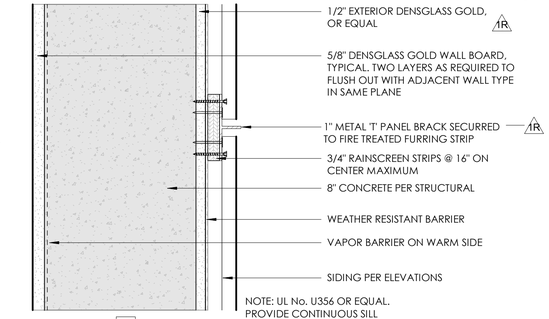
WEATHER RESISTANT BARRIER, LIQUID APPLIED PROSOCO CAT 5 OR APPROVED EQUAL.

NOTE: OMIT METAL STUD AND INSULATION FOR WALL TYPE 1.5

NOTE: PROVIDE CONTINUOUS SILL GASKET AT ALL EXTERIOR WALLS

WALL TYPE: 1.5 1.6

5 EXTERIOR MASONRY ON CONCRETE
3" = 1'-0"



1/2" EXTERIOR DENSGLASS GOLD, OR EQUAL 1R

5/8" DENSGLASS GOLD WALL BOARD, TYPICAL. TWO LAYERS AS REQUIRED TO FLUSH OUT WITH ADJACENT WALL TYPE IN SAME PLANE

1" METAL 'T' PANEL BRACK SECURRED TO FIRE TREATED FURRING STRIP 1R

3/4" RAINSCREEN STRIPS @ 16" ON CENTER MAXIMUM

8" CONCRETE PER STRUCTURAL

WEATHER RESISTANT BARRIER

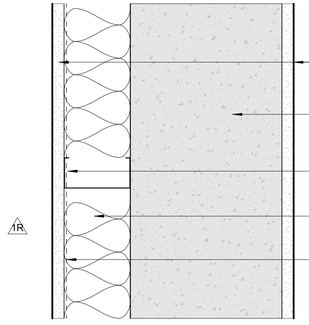
VAPOR BARRIER ON WARM SIDE

SIDING PER ELEVATIONS

NOTE: UL No. U356 OR EQUAL. PROVIDE CONTINUOUS SILL GASKET AT ALL EXTERIOR WALLS

WALL TYPE: 1.4

4 EXT. SIDING ON CONCRETE
3" = 1'-0"



5/8" DENSGLASS GOLD WALL BOARD ON BOTH SIDES OF CONCRETE WALL

CONCRETE WALL SPACE ASSUMED 2-HOUR RATING

3 1/2" USG C STUDS, 25 GA. SPACED 24" O.C.

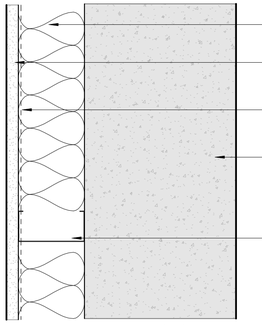
FRICTION FIT BATT INSULATION, R-15 MINIMUM

VAPOR BARRIER AT WARM SIDE

NOTE: OMIT METAL STUD AND INSULATION FOR WALL TYPE 1.2

WALL TYPE: 1.2 1.3

3 SHAFT WALL 2HR.
3" = 1'-0"



FRICTION FIT BATT INSULATION, R-15 MINIMUM

5/8" GYPSUM WALL BOARD ON INTERIOR SIDE OF CONCRETE WALL

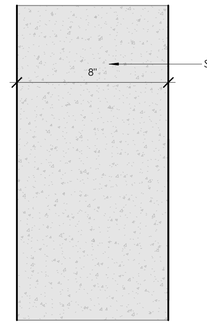
VAPOR BARRIER AT WARM SIDE

CONCRETE WALL SPACE ASSUMED 2-HOUR RATING

3 1/2" USG C STUDS, 25 GA. SPACED 24" O.C.

WALL TYPE: 1.1

2 EXT. CONCRETE WALL
3" = 1'-0"



8"

SIZE VARIES, SEE STRUCTURAL

WALL TYPE: 1

1 CONCRETE WALL
3" = 1'-0"

1R

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Building Plans Examiner
Community Planning & Development Department
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Olympia, WA 98501
(360) 753-8248
rbalders@ci.olympia.wa.us

TOWNZEN & ASSOCIATES PLAN APPROVAL
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4 Approved as submitted.
09/17/2019

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

1	REVISION 1. 01-31-2019
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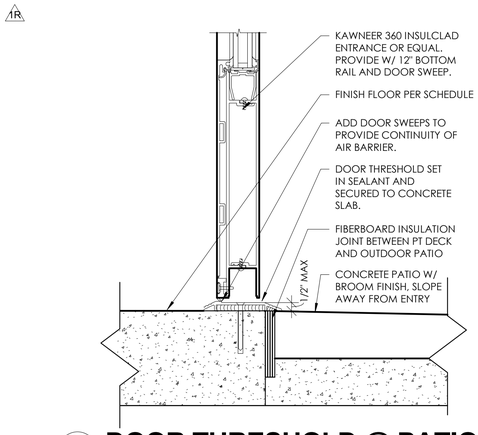
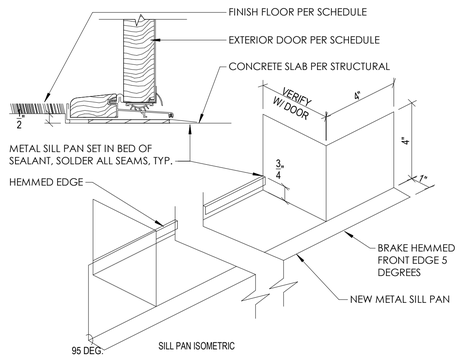
2R	RESPONSE TO COMMENTS. 03-20-2019
3	REVISION 3. 06-13-2019
4	REVISION 4. 07-08-2019
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

ASSEMBLY DETAILS

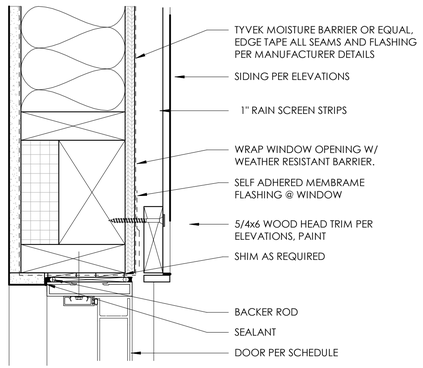
A6.01



15 DOOR THRESHOLD @ PATIO
3" = 1'-0"

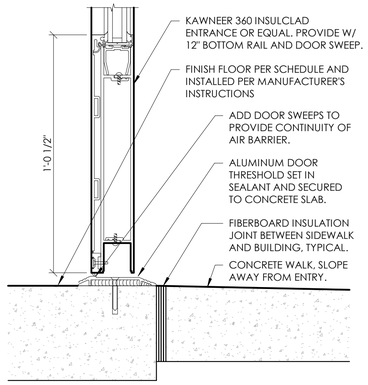


14 THRESHOLD FLASHING
3" = 1'-0"

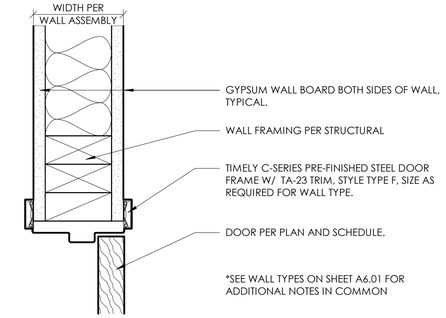


13 DOOR HEAD @STOREFRONT
3" = 1'-0"

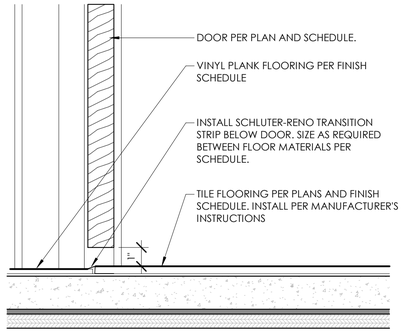
12 DOOR JAMB @ STOREFRONT
3" = 1'-0"



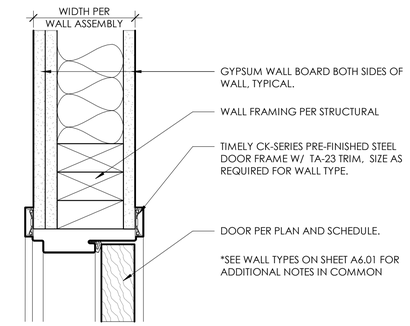
11 THRESHOLD @ STOREFRONT
3" = 1'-0"



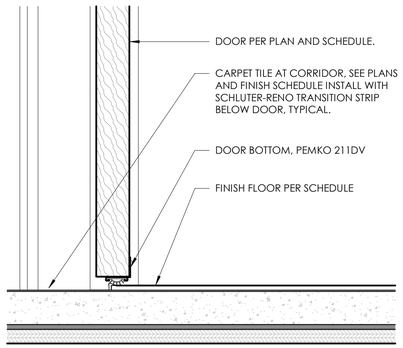
7 DOOR HEAD/JAMB @ INT.
3" = 1'-0"



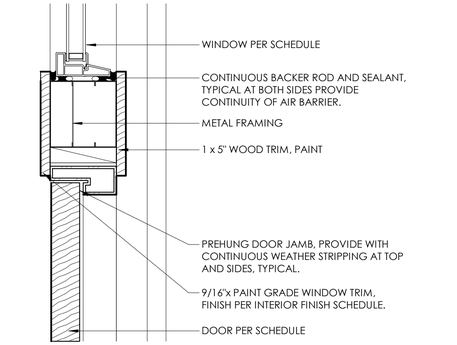
6 THRESHOLD @ INTERIOR
3" = 1'-0"



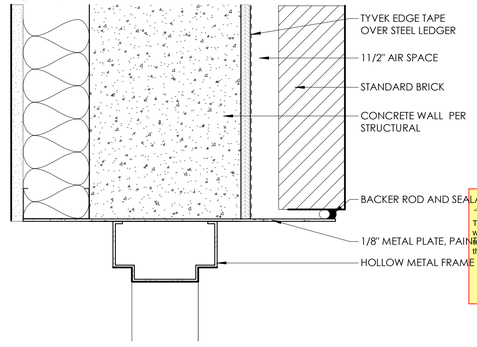
5 DOOR HEAD/JAMB @ UNIT
3" = 1'-0"



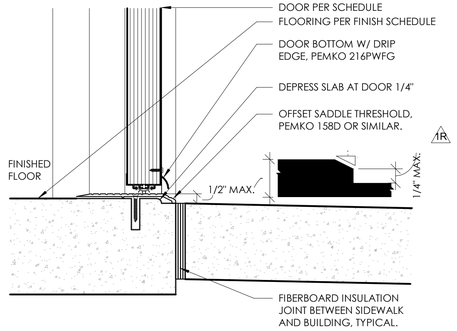
4 THRESHOLD @ UNIT ENTRY
3" = 1'-0"



3 DOOR OVERHEAD @ TRANSOM
3" = 1'-0"



2 DOOR JAMB @ BRICK
3" = 1'-0"



1 DOOR THRESHOLD @ SLAB
3" = 1'-0"

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09/17/2019

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WESTMAN MILL
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Project No: 1514
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09/09/2019

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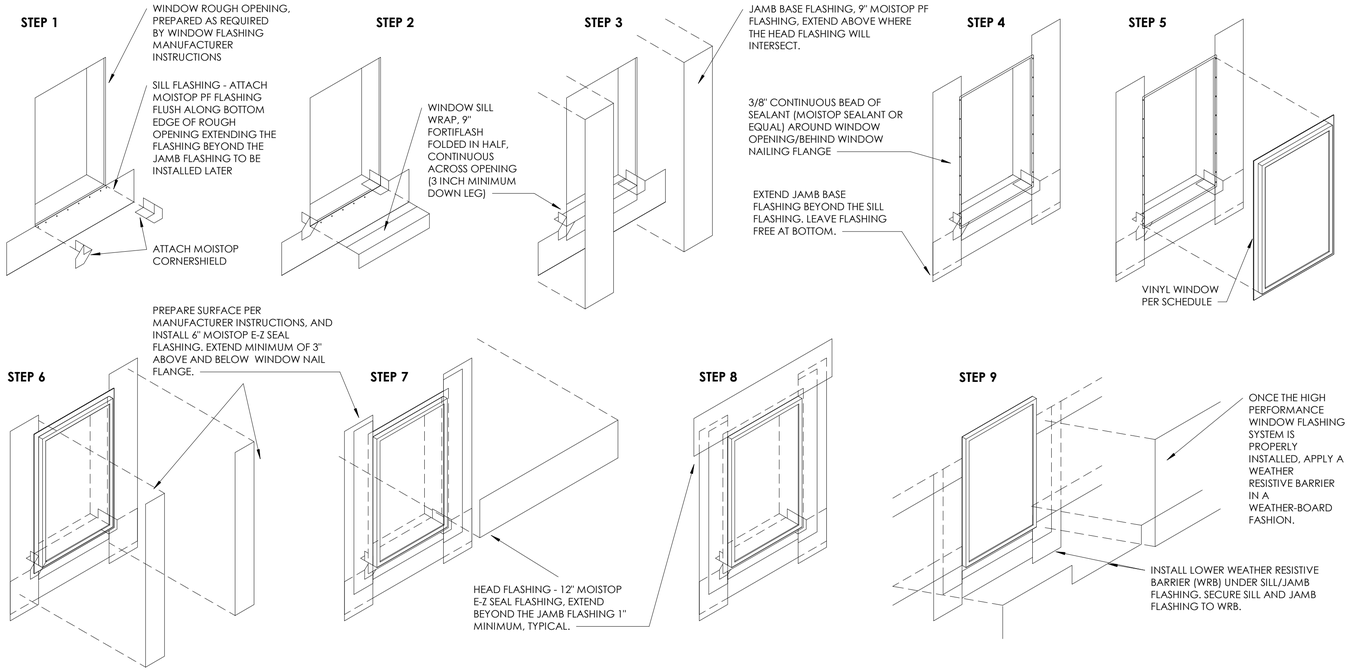
6	REVISION 6. 09-03-2019

DOOR DETAILS

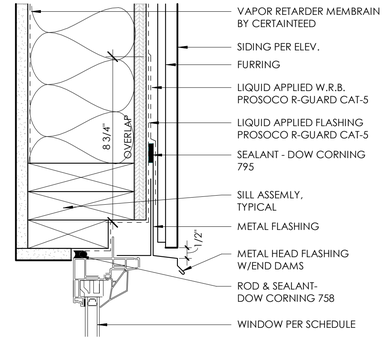
A6.02



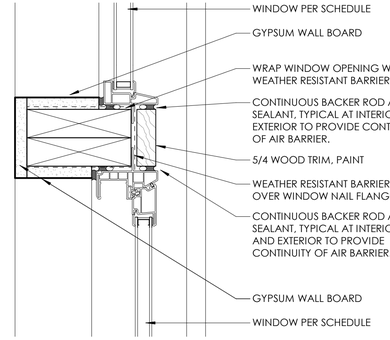
10 TYPICAL TRIM @ INTERIOR
1/2" = 1'-0"

GENERAL NOTES:

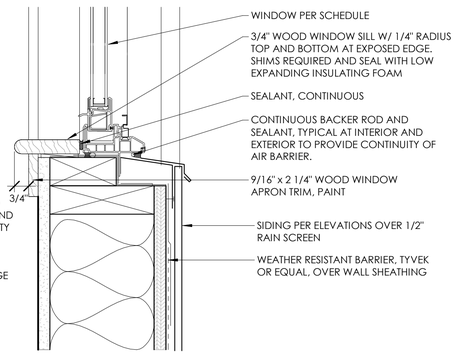
1. SEE FORTIFIBER BUILDING SYSTEMS HIGH PERFORMANCE WINDOW FLASHING SYSTEM WITH ADDITION OF CORNER SHIELD AND SILL WRAP FOR MANUFACTURER'S SPECIFIC INSTRUCTIONS
2. PREPARE ALL SURFACES AS RECOMMENDED BY WINDOW FLASHING MANUFACTURER.



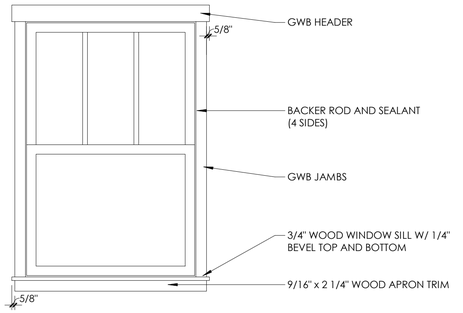
3 WINDOW HEAD
3" = 1'-0"



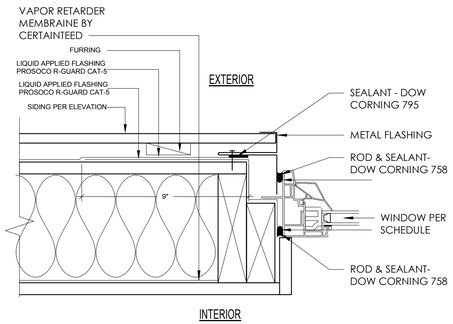
2 WINDOW MULLION
3" = 1'-0"



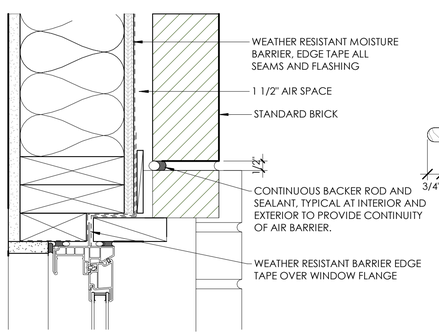
1 WINDOW SILL AT SIDING
3" = 1'-0"



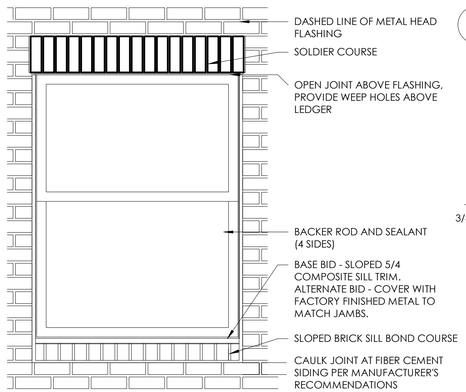
9 TYP. TRIM ELEVATION @ INT.
3/4" = 1'-0"



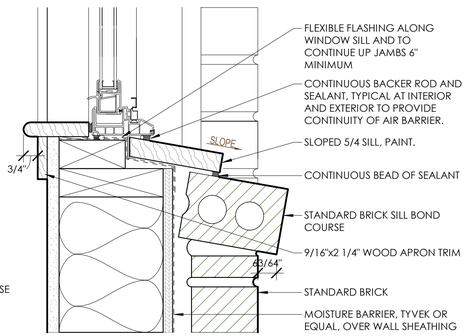
7 WINDOW JAMB PLAN
3" = 1'-0"



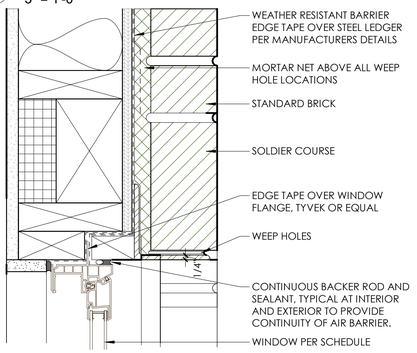
5 WINDOW JAMB @ BRICK
3" = 1'-0"



8 TYP. WINDOW @ SIDING
3/4" = 1'-0"



6 WINDOW SILL @ BRICK
3" = 1'-0"



4 WINDOW HEAD @ BRICK
3" = 1'-0"

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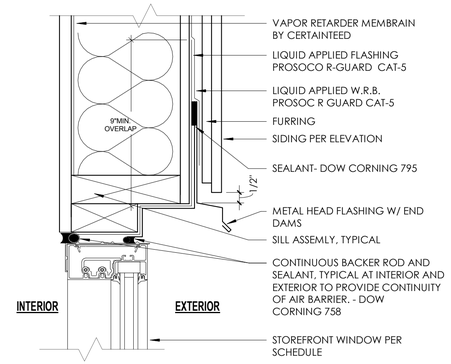
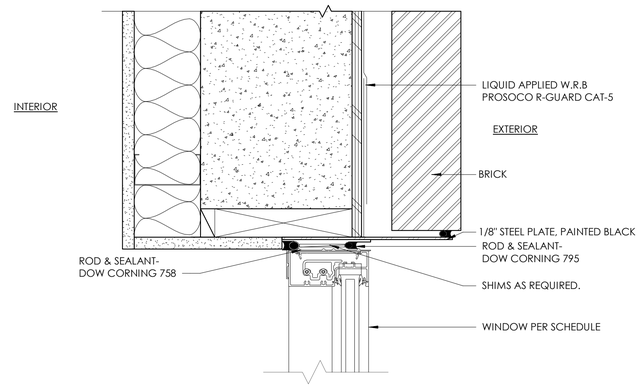
WINDOW DETAILS

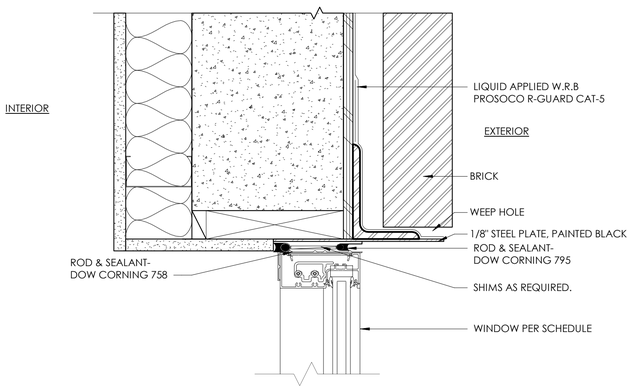
A6.03



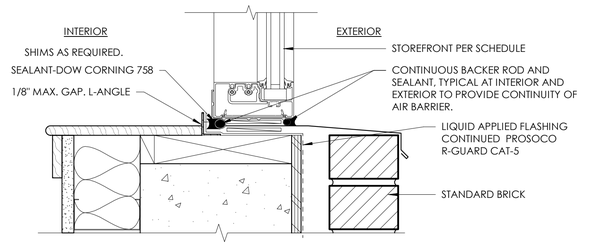
3 STOREFRONT HEAD @ BALCONY
3" = 1'-0"



2 STOREFRONT JAMB
3" = 1'-0"



4 STOREFRONT HEAD @ CONCRETE
3" = 1'-0"



1 STOREFRONT SILL
3" = 1'-0"

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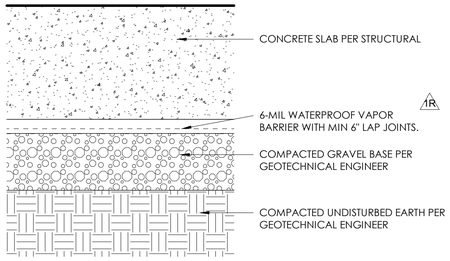
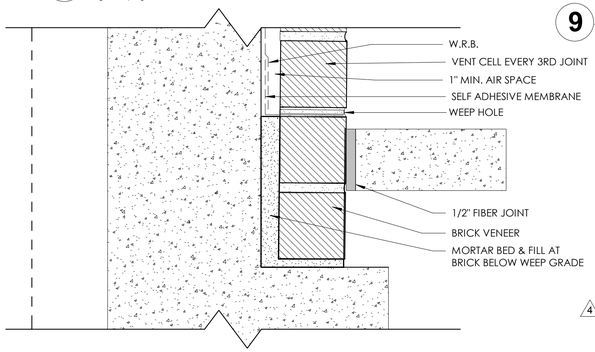
WINDOW STOREFRONT DETAILS

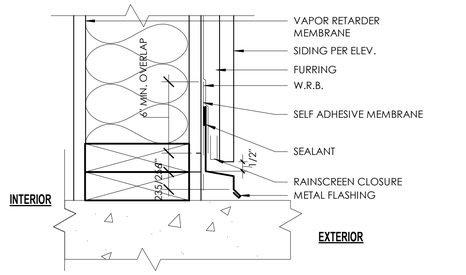
A6.04



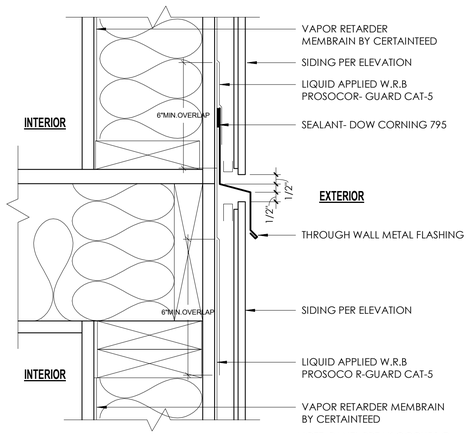
8 TYP. CONCRETE SLAB
3" = 1'-0"



7 BASE OF WALL @ BRICK
3" = 1'-0"



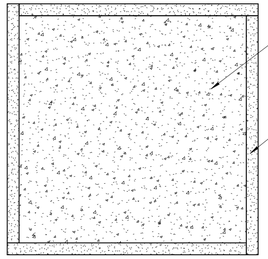
6 BASE OF WALL @ CONCRETE
3" = 1'-0"



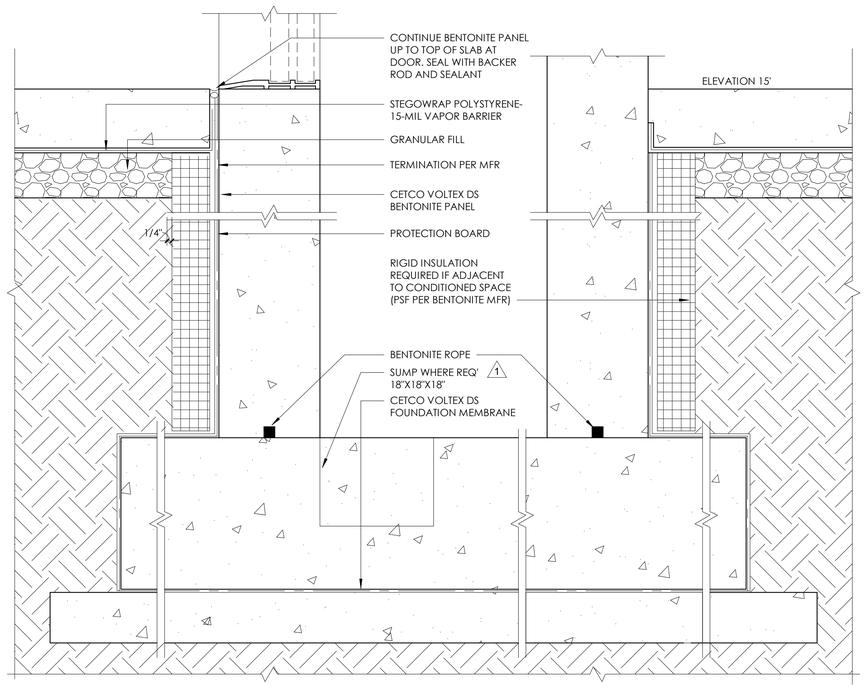
NOTE: PANEL BREAK OCCURS @ WINDOW HEAD TYPICAL

5 THROUGH WALL
3" = 1'-0"

9 NOT USED
1 1/2" = 1'-0"

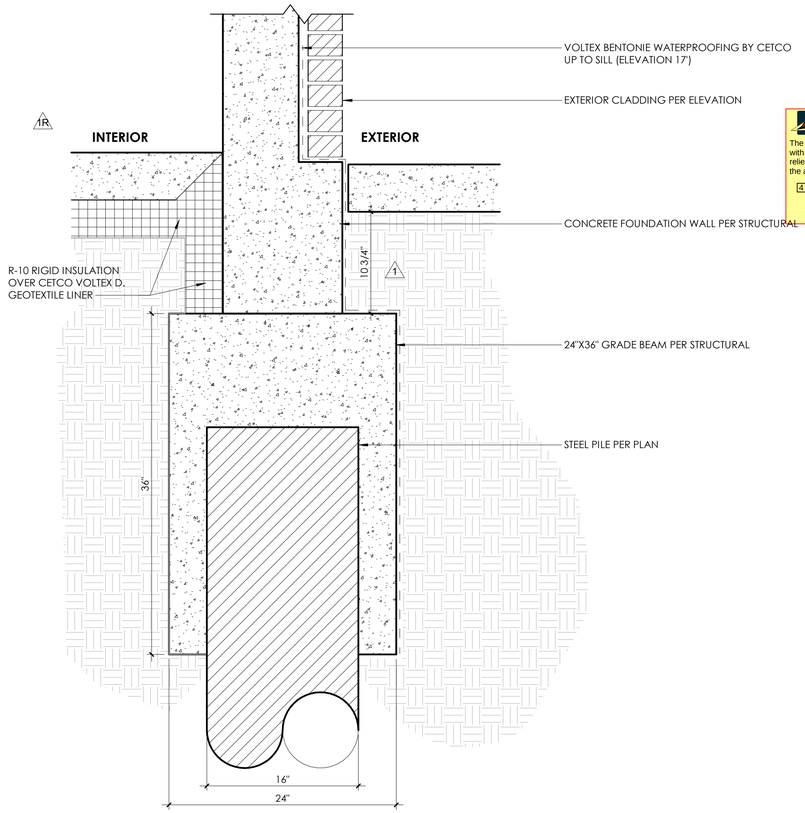


4 PLAN DETAIL AT COLUMN
3" = 1'-0"



3 ELEVATOR PIT
3" = 1'-0"

2 NOT USED
1" = 1'-0"



1 CONCRETE FOOTING
1 1/2" = 1'-0"

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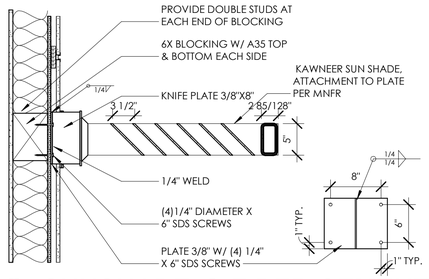
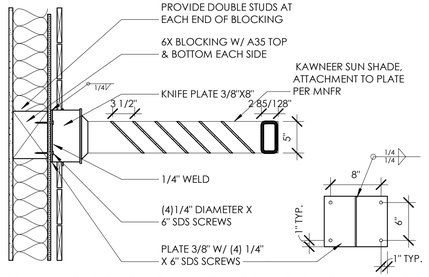
BUILDING ENVELOPE

A6.05



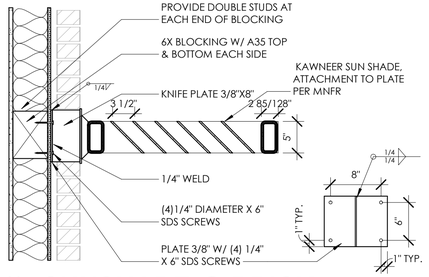
10 SUNSHADE @ FIBER CEMENT SIDIN

1" = 1'-0"



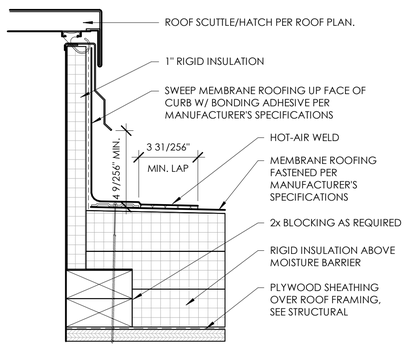
9 SUNSHADE @ WOOD SIDING

1" = 1'-0"



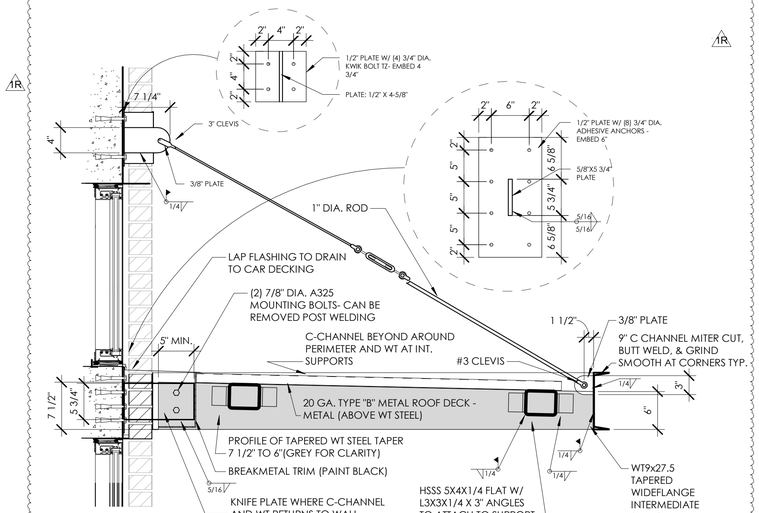
8 SUNSHADE @ BRICK

1" = 1'-0"



7 ROOF SCUTTLE

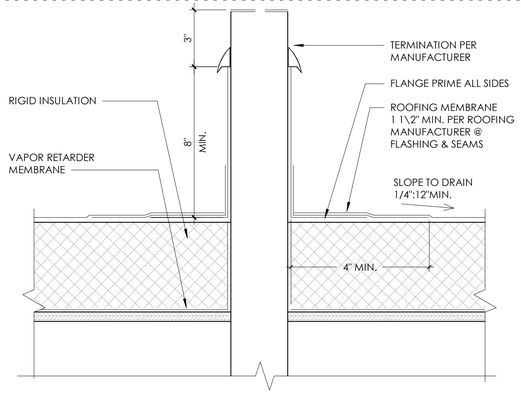
3" = 1'-0"



6 CANOPY

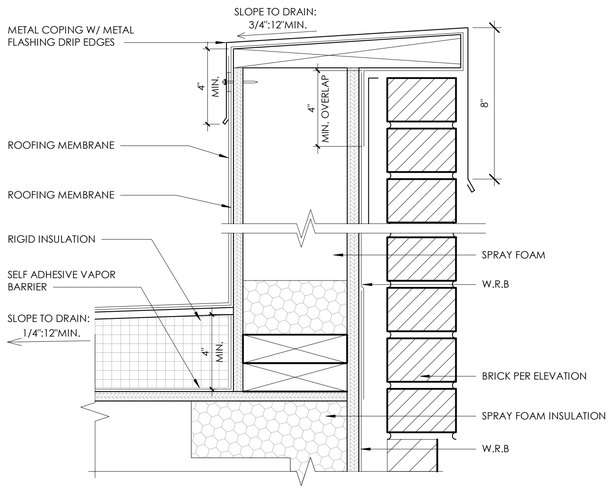
NOTE: PAINT ALL VISIBLE PORTION OF UNDERSIDE OF CANOPY BLACK

1" = 1'-0"



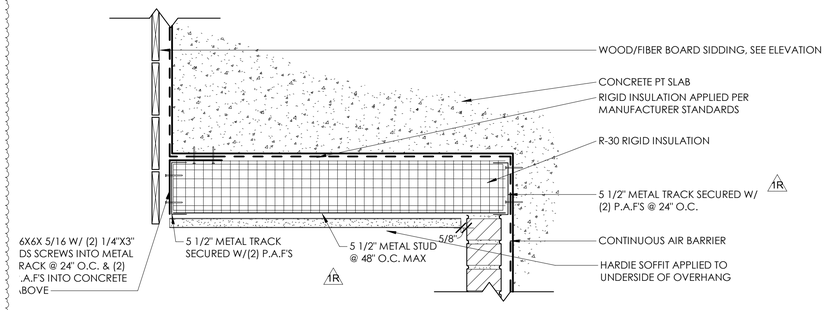
5 PIPE PENETRATION @ ROOF

3" = 1'-0"



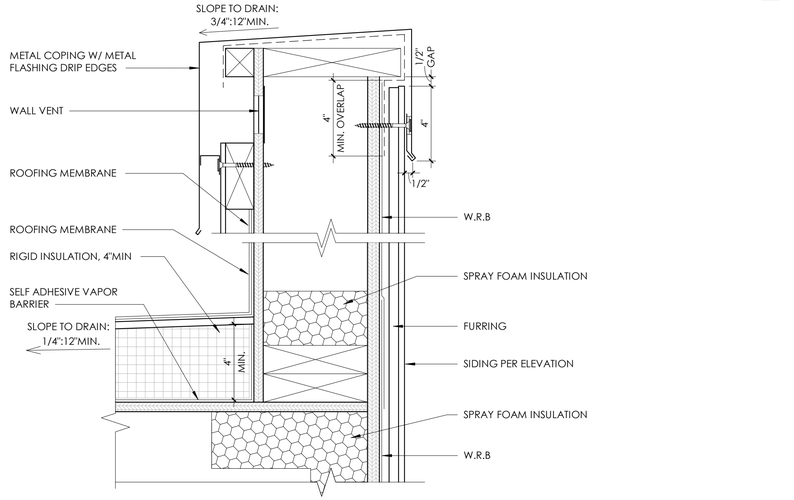
4 PARAPET @ BRICK

3" = 1'-0"



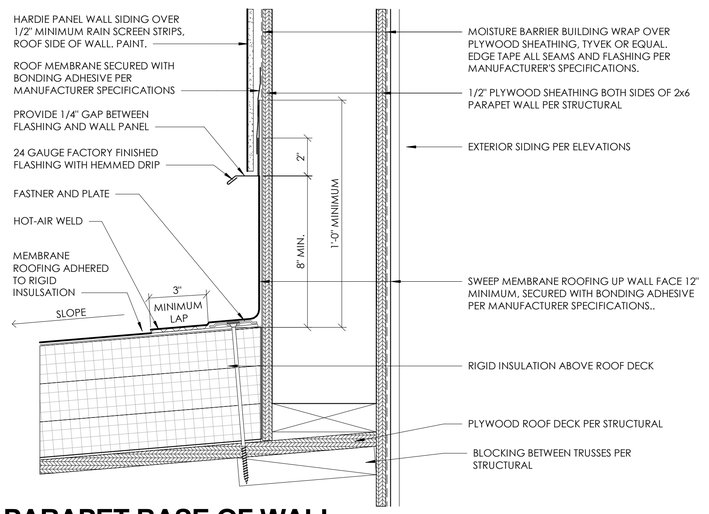
3 INSULATION @ OVERHANG

1 1/2" = 1'-0"



02 PARAPET @ SIDING

3" = 1'-0"



1 PARAPET BASE OF WALL

3" = 1'-0"

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EAST BAY LOT A WESTMAN MILL

510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

1	REVISION 1. 01-31-2019
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2R	RESPONSE TO COMMENTS. 03-20-2019
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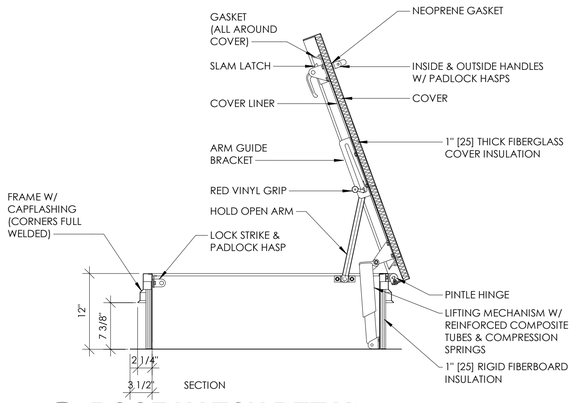
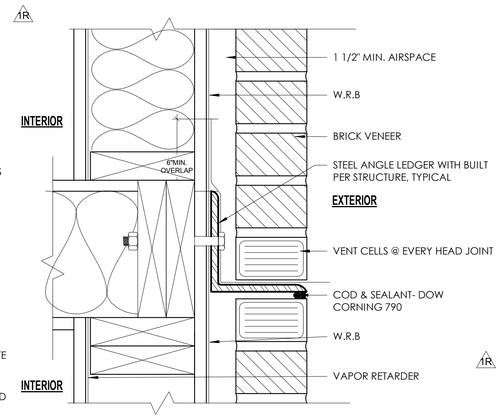
4	REVISION 4. 07-08-2019
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

BUILDING ENVELOPE

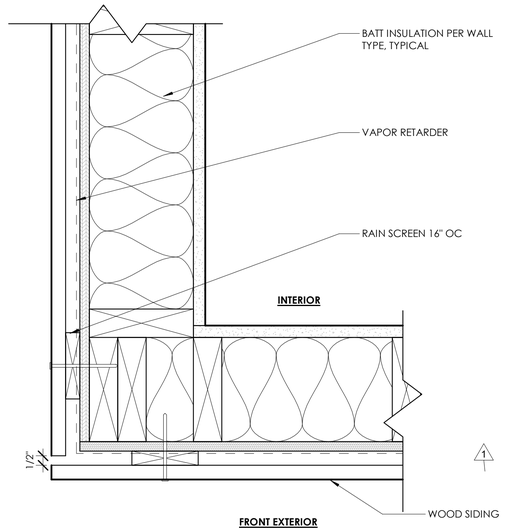
A6.06



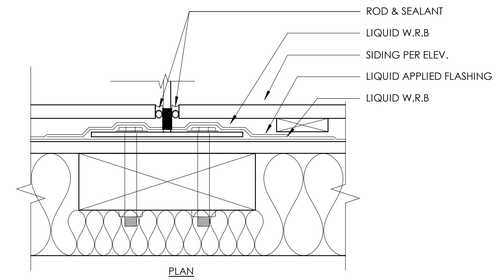
13 ROOF HATCH DETAIL
1" = 1'-0"



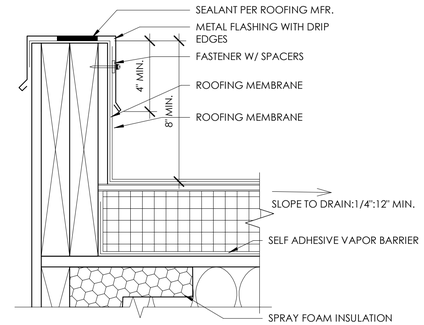
10 BRICK LEDGER
3" = 1'-0"



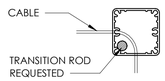
7 OUTSIDE CORNER
3" = 1'-0"



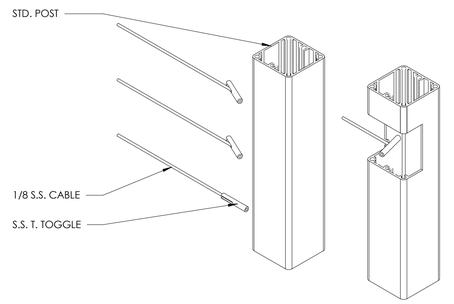
4 KNIFE PLATE DETAIL PLAN
3" = 1'-0"



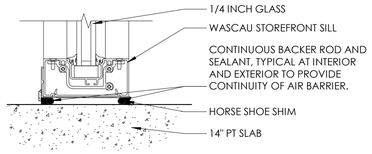
3 MECHANICAL CURB
3" = 1'-0"



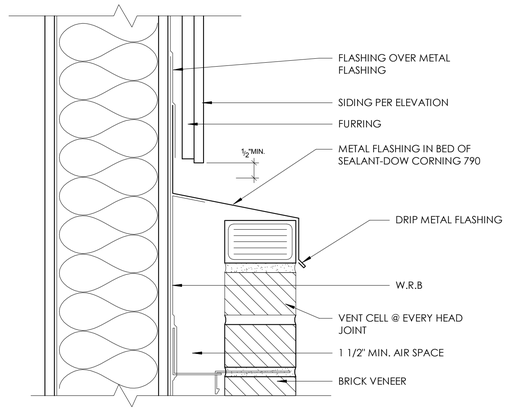
2 RAILING @ CORNER CONDITION
3" = 1'-0"



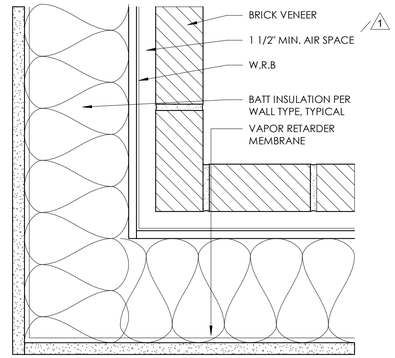
1 RAILING @ END
3" = 1'-0"



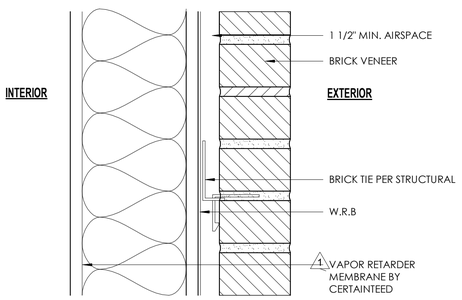
12 STOREFRONT SILL ON SLAB
3" = 1'-0"



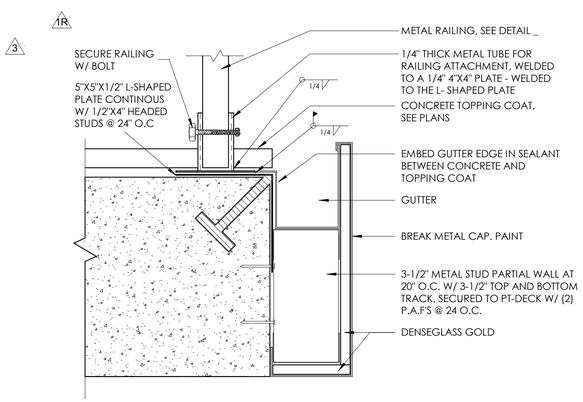
9 BRICK SIDING @ JOINT
3" = 1'-0"



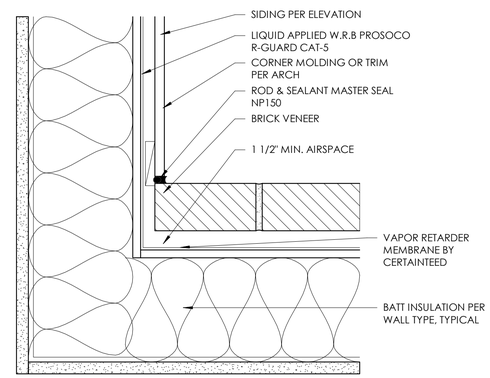
6 INSIDE CORNER @ BRICK
3" = 1'-0"



11 BRICK @ TIE
3" = 1'-0"



8 DECK EDGE GUARD RAIL DETAIL
3" = 1'-0"



5 INSIDE CORNER @ SIDING & BRICK
3" = 1'-0"

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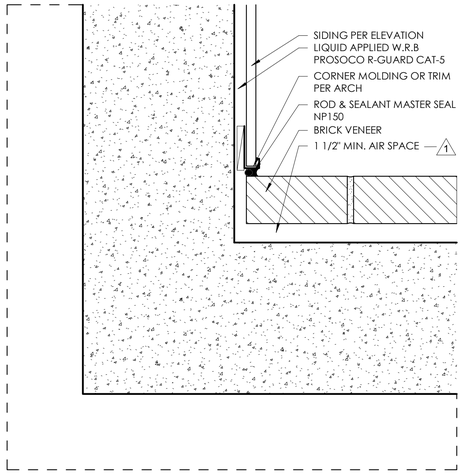
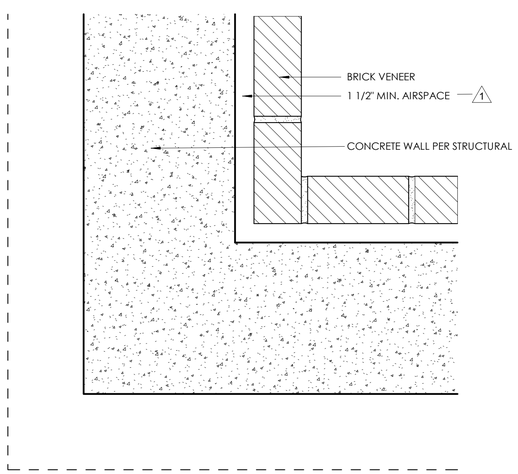
BUILDING ENVELOPE

A6.07



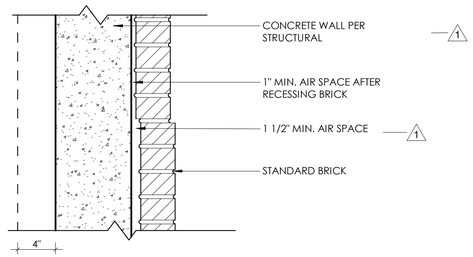
9 INSIDE CORNER CONCRETE WALL BRICK TO WOOD

3" = 1'-0"



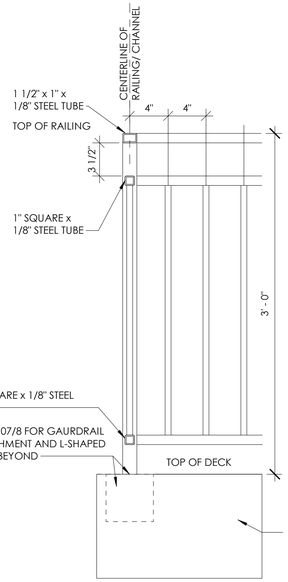
8 INSIDE CORNER CONCRETE WALL

3" = 1'-0"



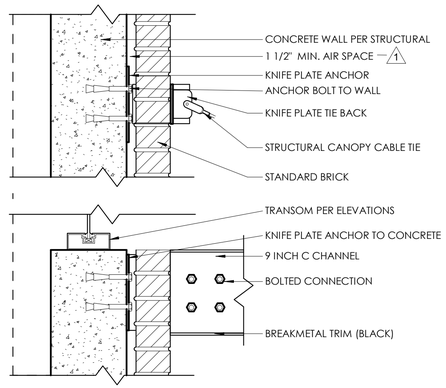
7 CONCRETE @ RECESS

1 1/2" = 1'-0"



6 GAURDRAIL @ OUTDOOR PATIO

1 1/2" = 1'-0"



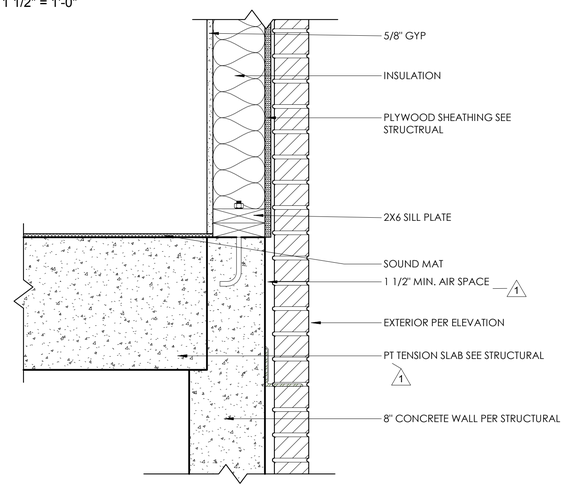
PLAN

3 CONCRETE WALL @ BRICK & STOREFRONT JAMB

1 1/2" = 1'-0"

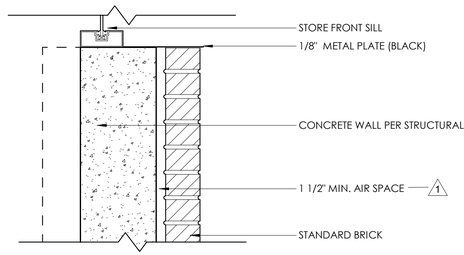
5 CONCRETE WALL @ CANOPY

1 1/2" = 1'-0"



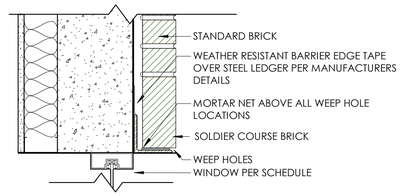
2 CONCRETE THROUGH WALL

1 1/2" = 1'-0"



4 CONCRETE WALL @ BRICK & STOREFRONT SILL

1 1/2" = 1'-0"



1 CONCRETE @ WINDOW HEAD & BRICK

1 1/2" = 1'-0"

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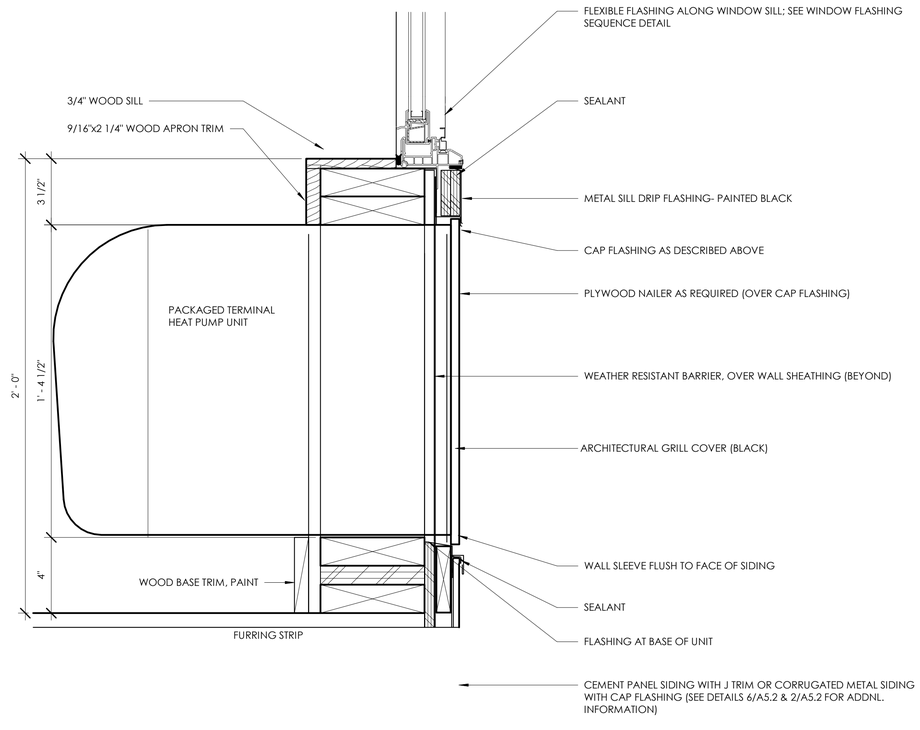
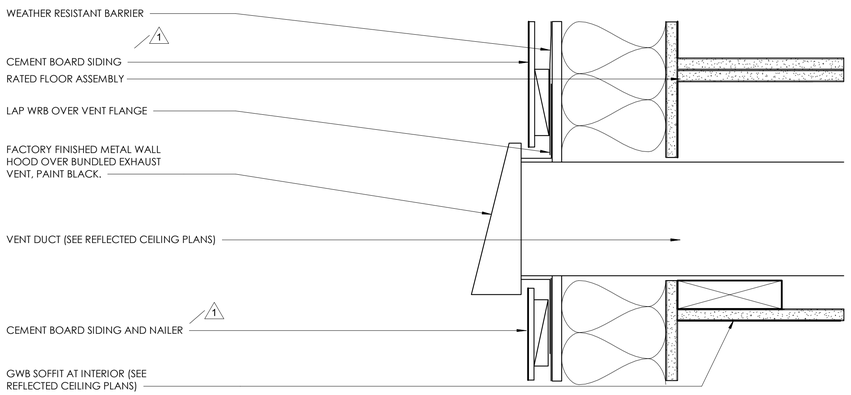
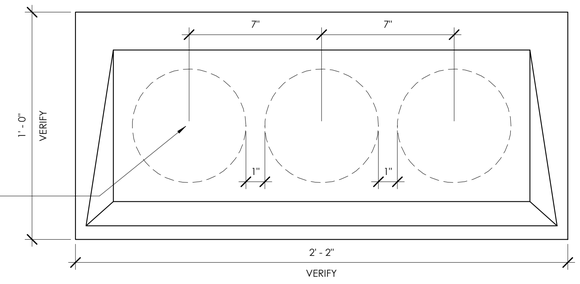
EXTERIOR BUILDING DETAILS

A6.08

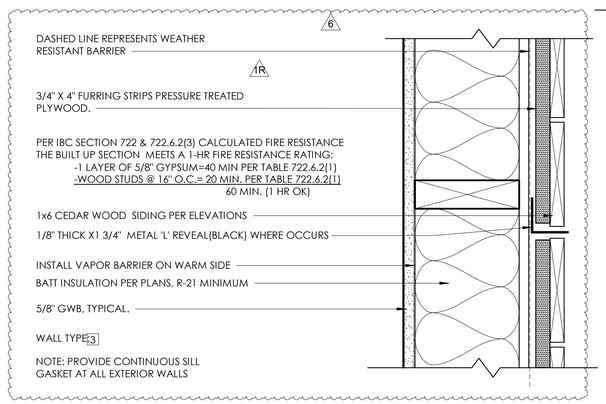


8 PTHP MECHANICAL UNIT
3" = 1'-0"

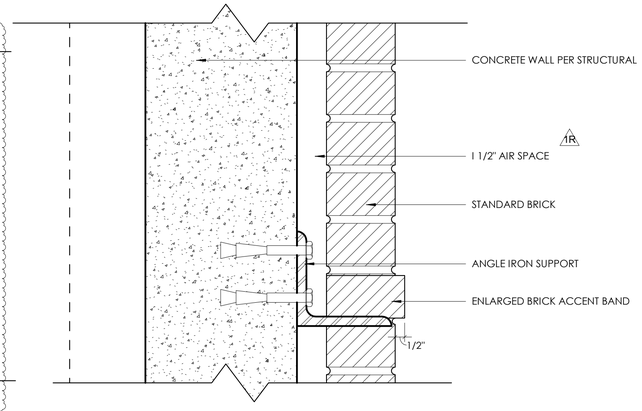




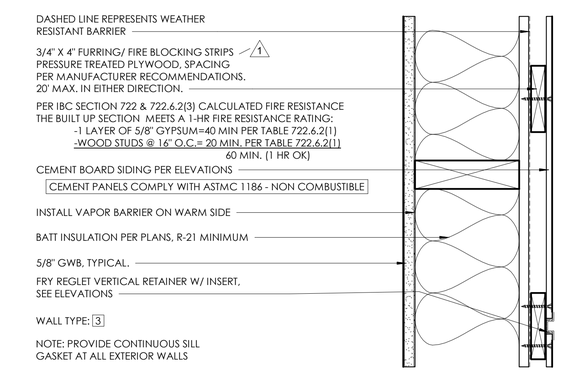
7 EXHAUST VENTING
3" = 1'-0"



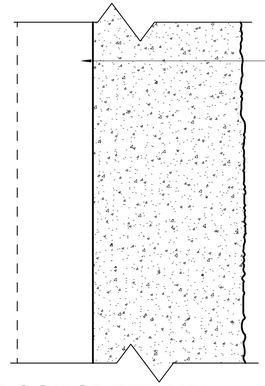
6 EXTERIOR WALL WOOD SIDING
3" = 1'-0"



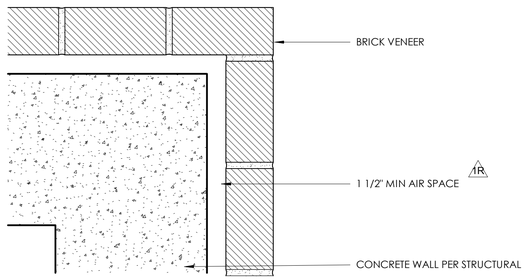
3 BRICK ACCENT BAND
3" = 1'-0"



5 EXTERIOR WALL PANEL SIDING
3" = 1'-0"



2 ROUGH CONCRETE WALL
3" = 1'-0"



1 OUTSIDE CORNERE CONCRETE WALL BRICK TO BRICK
3" = 1'-0"

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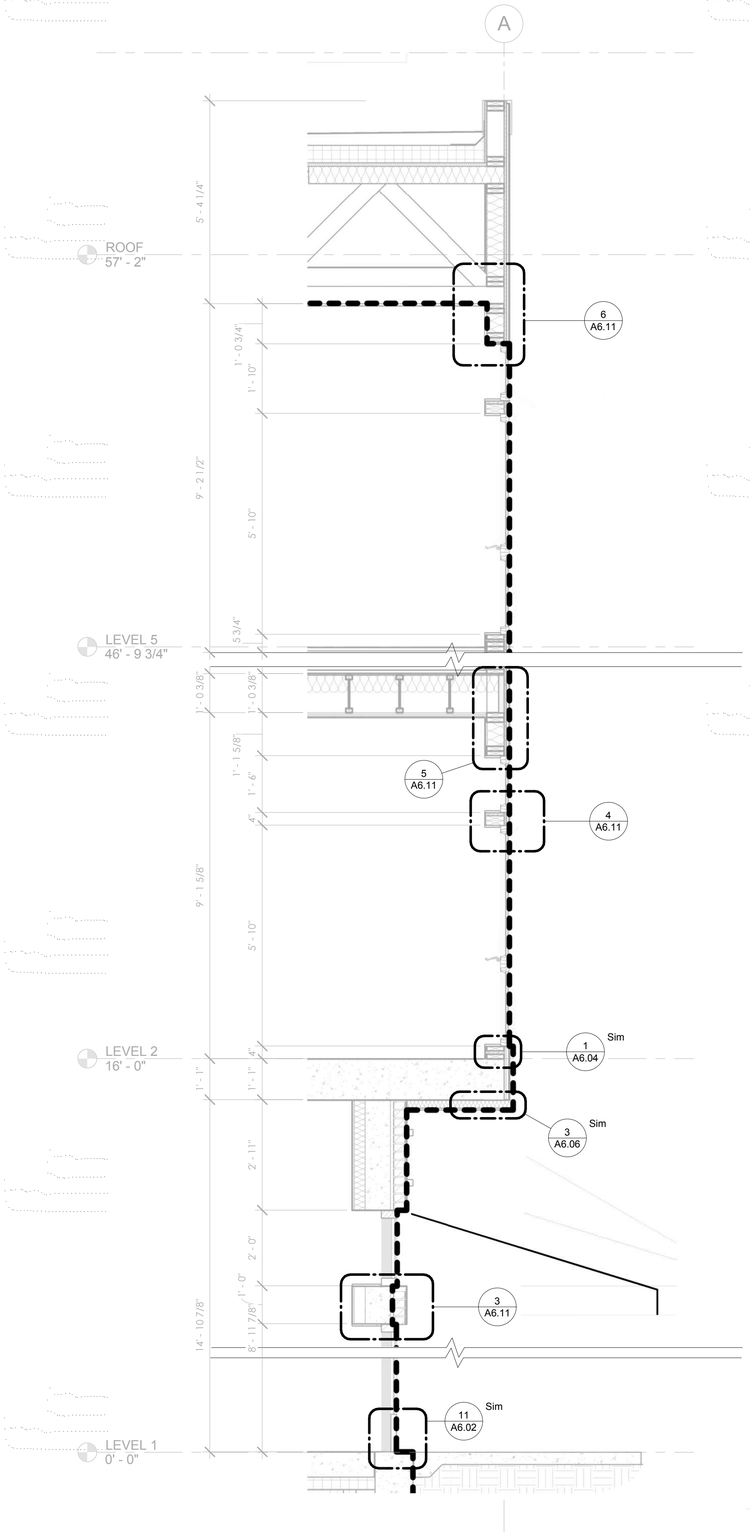
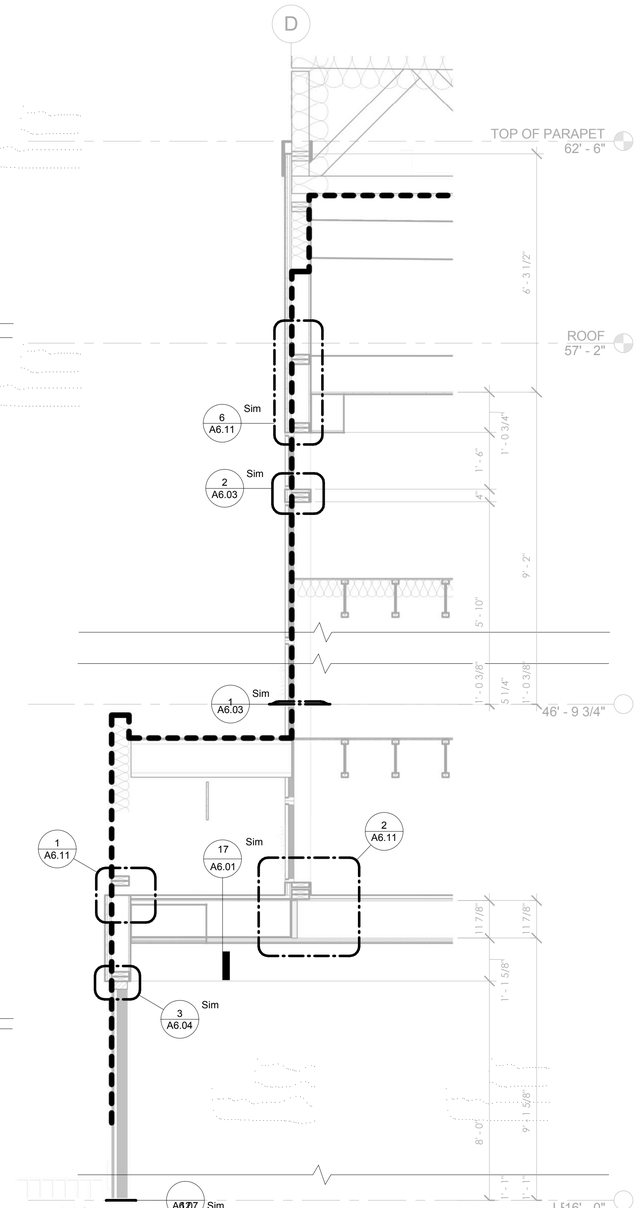
EXTERIOR WALL DETAILS

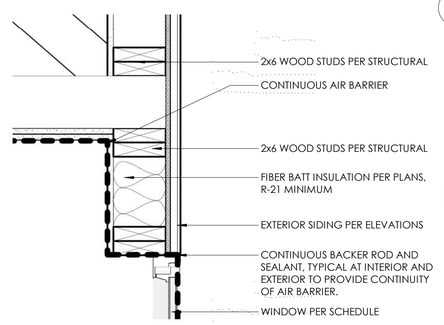
A6.09



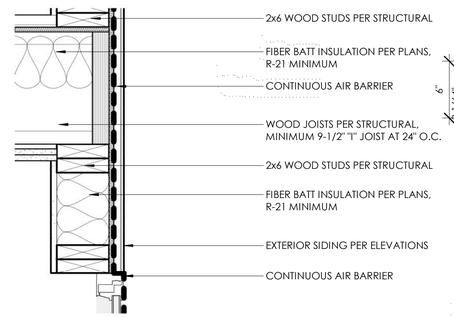
TYPICAL
8 EXTERIOR WALL SECTION
1/2" = 1'-0"



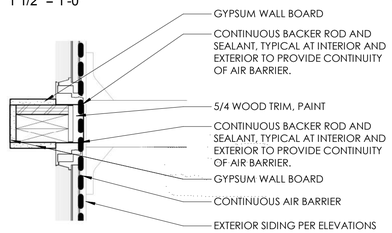
TYPICAL
7 EXTERIOR WALL SECTION @ 2ND FLOOR ROOF
1/2" = 1'-0"



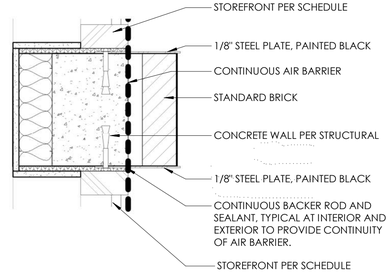
6 WINDOW HEAD @ ROOF CONDITION
1 1/2" = 1'-0"



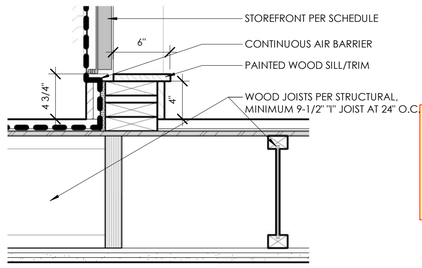
5 TYPICAL TROUGH WALL
1 1/2" = 1'-0"



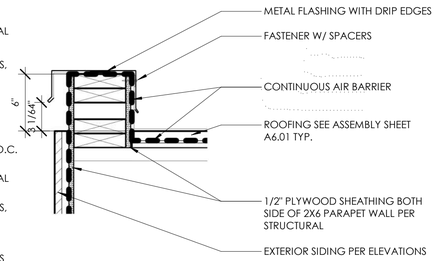
4 TYPICAL WINDOW MULLION @ WOOD
1 1/2" = 1'-0"



3 TYPICAL WINDOW MULLION @ CONCRETE
1 1/2" = 1'-0"



2 CONNECTION @ ROOF AND FLOOR
1 1/2" = 1'-0"



1 PARAPIT DETAIL @ 2ND FLOOR ROOF
1 1/2" = 1'-0"

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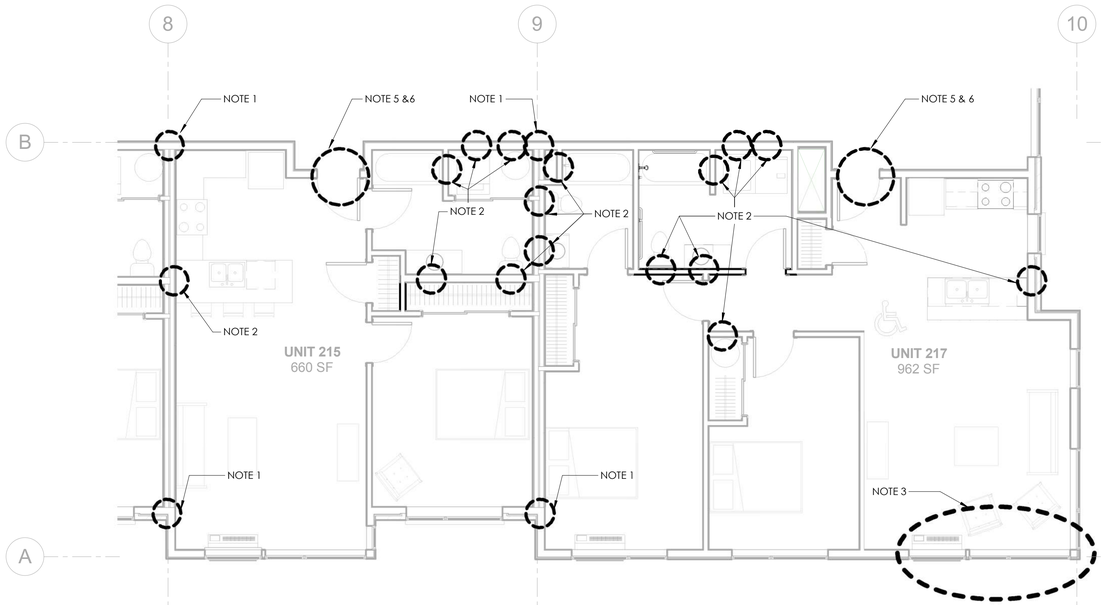
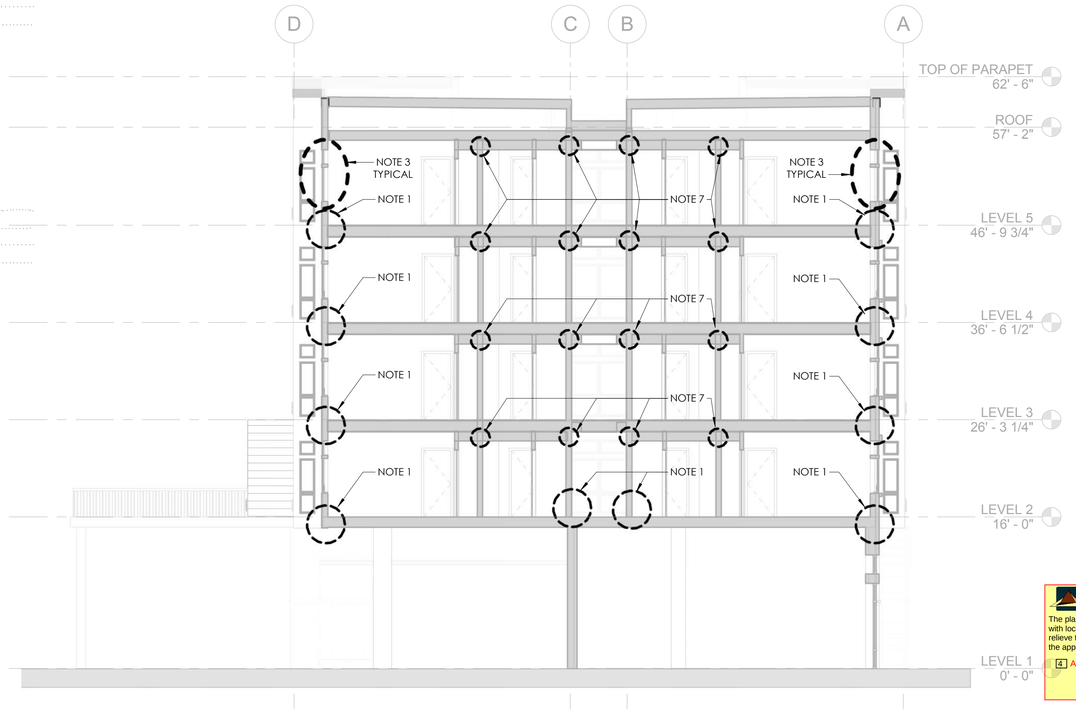
AIR BARRIER

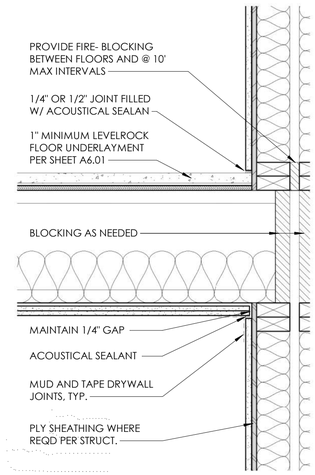
A6.11



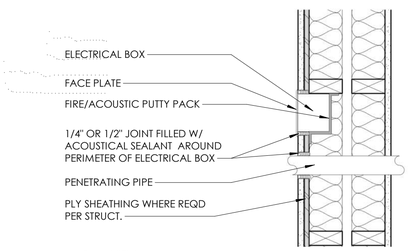
6 TYPICAL UNIT LAYOUT
3/16" = 1'-0"



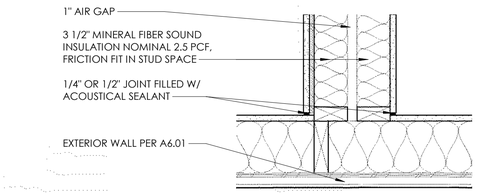
3 BUILDING SECTION
1/8" = 1'-0"



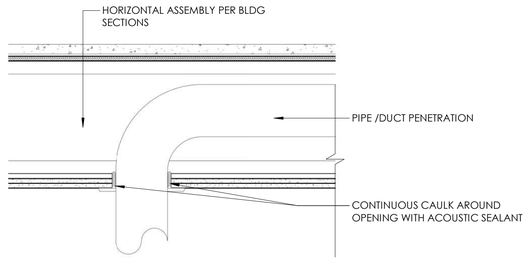
SECTION VIEW
7 UNIT DEMISING WALL TO CEILING/FLOOR
1 1/2" = 1'-0"



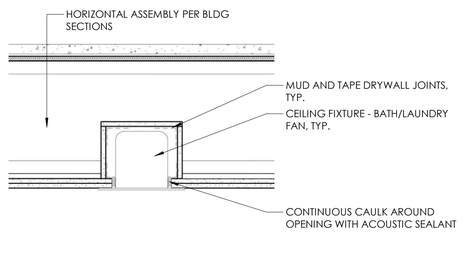
PLAN VIEW
5 DRYWALL PENETRATIONS, TYP.
1 1/2" = 1'-0"



PLAN VIEW
4 UNIT DEMISING WALL @ L2-L5 TYP.
1 1/2" = 1'-0"



SECTION VIEW
2 PENETRATION @ CLG, TYP.
1 1/2" = 1'-0"



SECTION VIEW
1 RECESSED FIXTURE @ CLG, TYP.
1 1/2" = 1'-0"

1. SEAL THE GWB AT THE WALL/ CEILING AND WALL FLOOR INTERSECTION AT THE EXTERIOR, CORRIDOR AND PARTY WALLS OF ALL DWELLING UNITS. SEE DETAILS 4,5, AND 7 ON SHEET A6.12 FOR TYPICAL DETAILS AND ACOUSTIC DETAILS
2. PROVIDE SEALANT AT ALL PLUMBING PIPE PENETRATIONS THROUGH THE GWB. SEE ACOUSTIC CAULKING REQUIREMENTS ON SHEET DETAILS 1,2, AND 5 IN SHEET A6.12. THIS INCLUDES BUT IS NOT LIMITED TO:
   - 2.1 THE WATER CLOSET SUPPLY LINE
   - 2.2 PLUMBING WASTE LINES
   - 2.3 SINK, LAV WASTE, AND SUPPLY LINES.
   - 2.4 SHOWER AND TUB DRAIN LINES
3. SEAL THE GWB AND WINDOW SILLS TO THE WINDOW FRAMES AT THE SILL, JAMBS, AND HEAD. SEE DETAILS ON SHEET A6.03 FOR TYPICAL CONDITIONS
4. PROVIDE A PUTTY PACK AT ALL OUTLETS AND SWITCHES AT THE UNIT PARTY WALLS WHEN THE DEVICES ARE LESS THAN 24" APART. SEE DETAIL 5 ON SHEET A6.12.
5. PROVIDE 20 MINUTE RATED SMOKE GASKETS AT THE UNIT ENTRY DOORS AT THE DOOR HEAD AND JAMBS, SEE DETAILS ON SHEET A6.02.
6. PROVIDE A THRESHOLD AND DOOR SWEEP AT THE UNIT ENTRY DOORS. SEE DETAILS ON SHEET A6.02.
7. SEAL THE GWB AT THE WALL/ CEILING INTERSECTION AT INTERIOR WALLS AT ALL DWELLING UNITS. SEE DETAILS ON SHEET >>>>
8. SEAL UNIT ELECTRICAL PANEL AND LOW VOLTAGE PANELS TO THE GWB.
9. SEAL ANY WIRING PENETRATIONS THAT DO NOT REQUIRE FIRE SEALING TREATMENT.
10. COMPLETED BUILDING TO BE TESTED PER WSEC C402.5.1.2.

1R

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09/17/2019

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510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

1	REVISION 1. 01-31-2019
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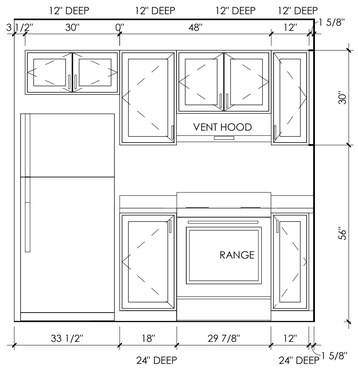
4	REVISION 4. 07-08-2019
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

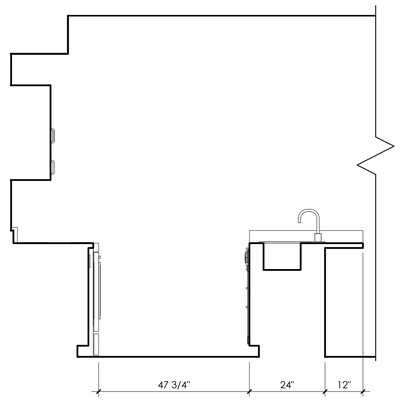
AIR BARRIER

A6.12



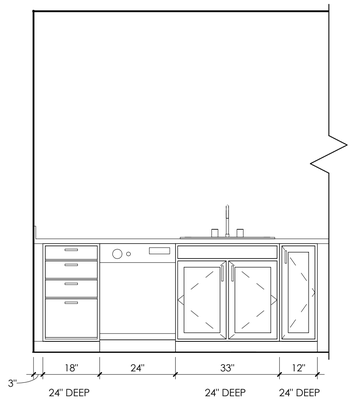
14 KITCHEN ELEV. 4 - D

SCALE: 1/2" = 1'-0"



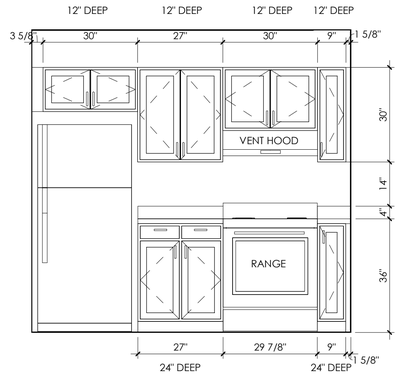
13 KITCHEN ELEV. 4 - A

SCALE: 1/2" = 1'-0"



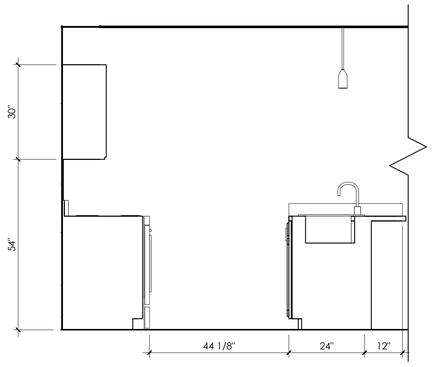
12 KITCHEN ELEV. 4 - B

SCALE: 1/2" = 1'-0"



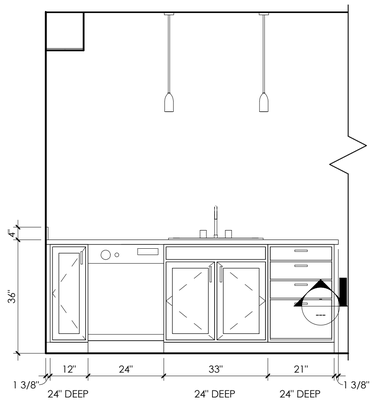
11 UNIT 409 KITCHEN ELEV. 9-A

SCALE: 1/2" = 1'-0"



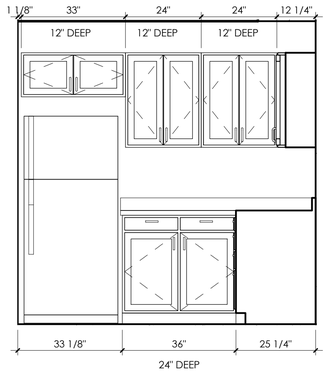
10 UNIT 409 KITCHEN ELEV. 9-B

SCALE: 1/2" = 1'-0"



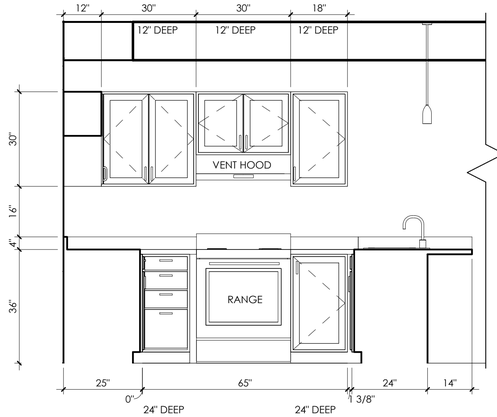
9 UNIT 409 KITCHEN ELEV. 9-C

SCALE: 1/2" = 1'-0"



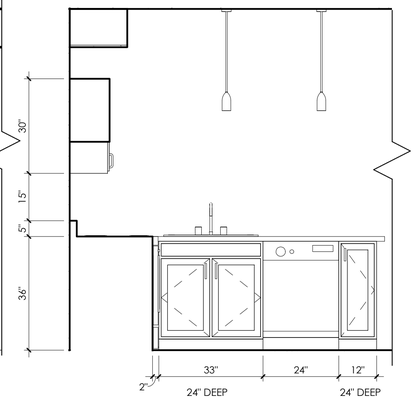
8 UNIT 211 KITCHEN ELEV. 8-A

SCALE: 1/2" = 1'-0"



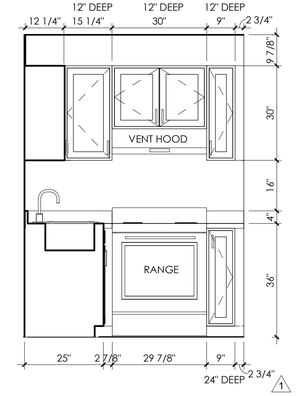
7 UNIT 211 KITCHEN ELEV. 8-B

SCALE: 1/2" = 1'-0"



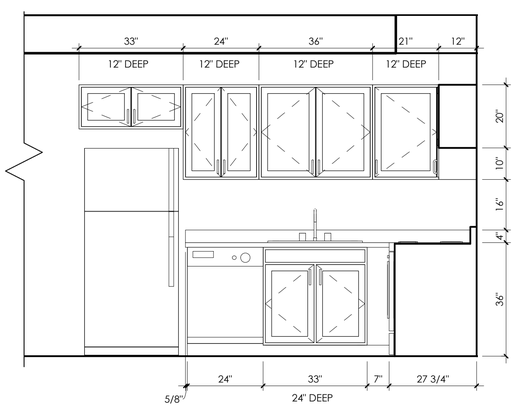
6 UNIT 211 KITCHEN ELEV. 8-C

SCALE: 1/2" = 1'-0"



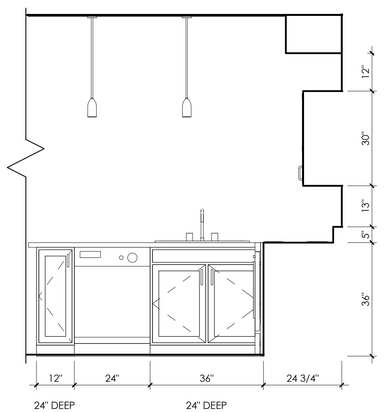
5 UNIT 214 KITCHEN ELEV. 1 - B

SCALE: 1/2" = 1'-0"



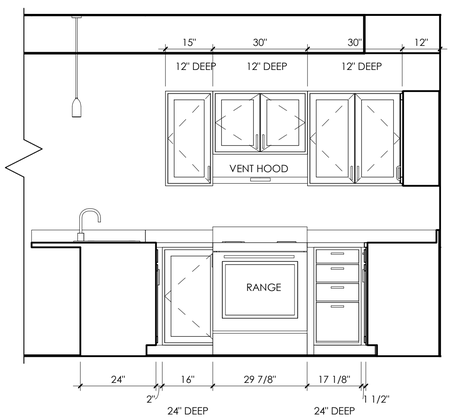
4 UNIT 214 KITCHEN ELEV. 1-A

SCALE: 1/2" = 1'-0"



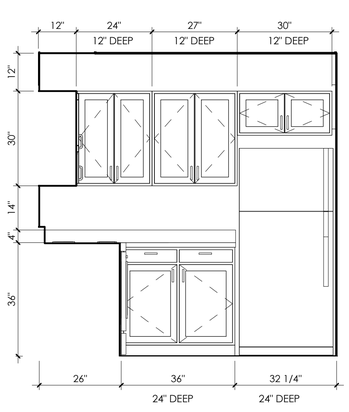
3 UNIT 213 KITCHEN ELEV. 3 - D (TYPICAL)

SCALE: 1/2" = 1'-0"



2 UNIT 213 KITCHEN ELEV. 3 - A (TYPICAL)

SCALE: 1/2" = 1'-0"



1 UNIT 213 KITCHEN ELEV. 3 - B (TYPICAL)

SCALE: 1/2" = 1'-0"

1R

KITCHEN ELEVATION GENERAL NOTES

1. ALL INTERIOR ELEVATIONS ARE TYPE B UNITS UNLESS NOTED OTHERWISE.
2. ALL TYPE A UNITS ARE TO COMPLY WITH SECTION 1003 OF THE ICC A117.1 2009.
3. ALL TYPE B UNITS ARE TO COMPLY WITH SECTION 1004 OF THE ICC A117.1 2009.

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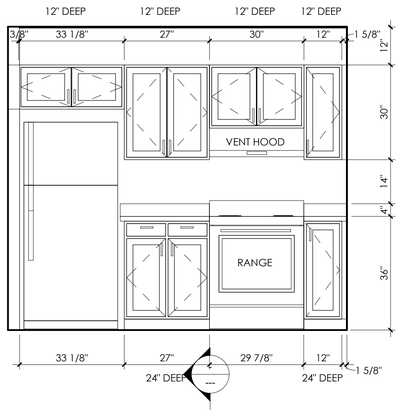
6	REVISION 6. 09-03-2019

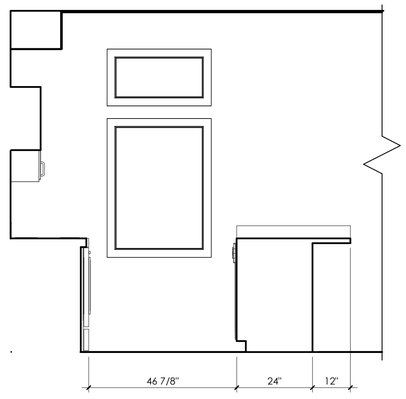
KITCHEN ELEVATIONS

A7.01



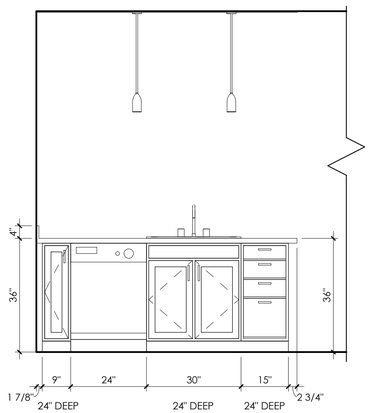
12 UNIT 317 KITCHEN ELEV. 5-B

SCALE: 1/2" = 1'-0"



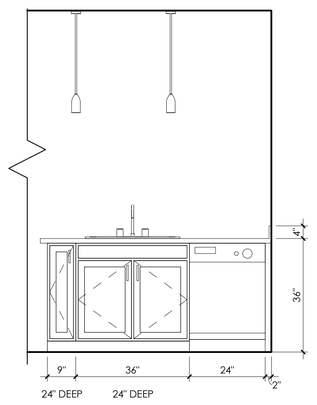
11 UNIT 317 KITCHEN ELEV. 5-A

SCALE: 1/2" = 1'-0"



10 UNIT 317 KITCHEN ELEV. 5-C

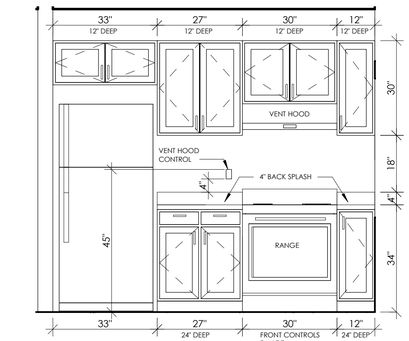
SCALE: 1/2" = 1'-0"



9 UNIT 216 KITCHEN ELEV. 2 - C

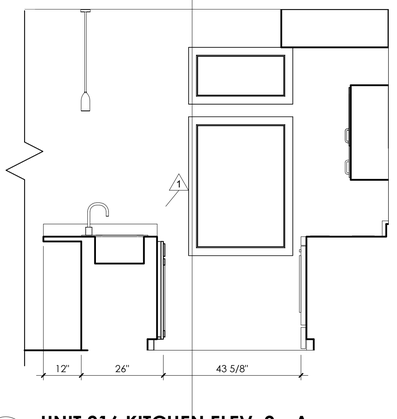
SCALE: 1/2" = 1'-0"

1R **TYPE A ACCESSIBLE UNITS:**
1003.9 OPERABLE PARTS.
LIGHTING CONTROLS, ELECTRICAL PANELBOARD,ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL COMPLY WITH SECTION 309.



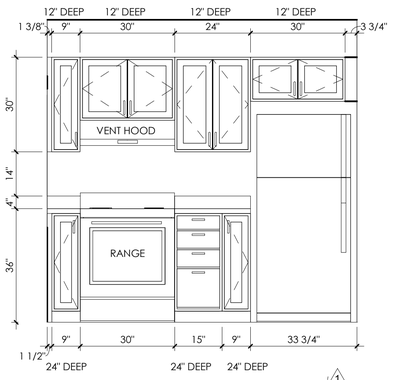
13 TYPICAL TYPE A UNIT 217-A

1/2" = 1'-0"



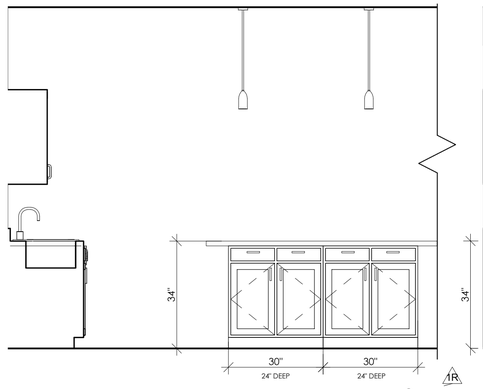
8 UNIT 216 KITCHEN ELEV. 2 - A

SCALE: 1/2" = 1'-0"



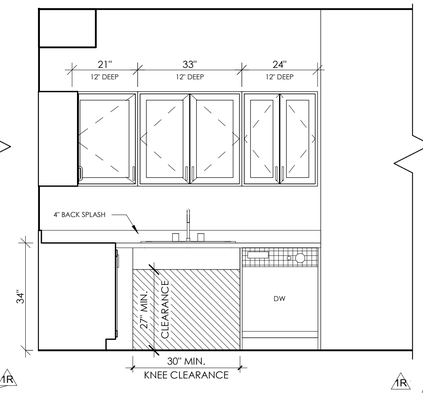
7 UNIT 216 KITCHEN ELEV. 2 - B

SCALE: 1/2" = 1'-0"



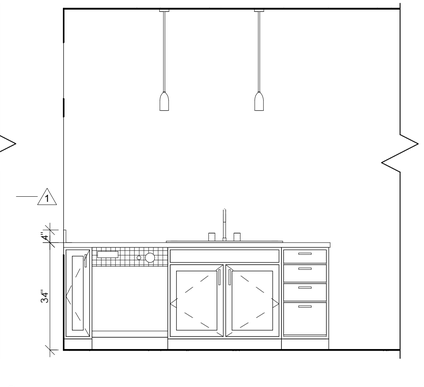
6 COMMUNAL KITCHEN ADA-C

1/2" = 1'-0"



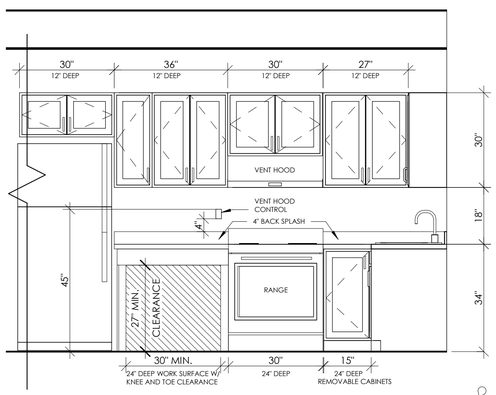
5 COMMUNAL KITCHEN ADA-B

1/2" = 1'-0"



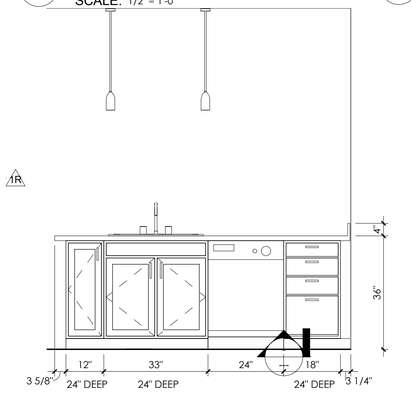
14 TYPICAL TYPE A UNIT 217-B

1/2" = 1'-0"



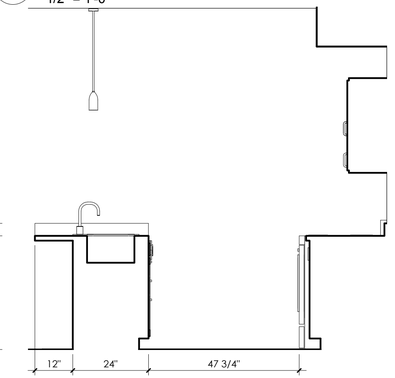
4 COMMUNAL KITCHEN ADA-A

1/2" = 1'-0"



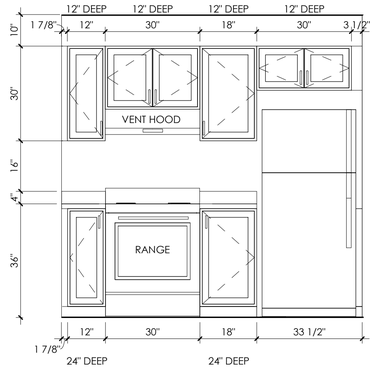
3 UNIT 206 KITCHEN ELEV. 10-A

SCALE: 1/2" = 1'-0"



2 UNIT 206 KITCHEN ELEV.10-B

SCALE: 1/2" = 1'-0"



1 UNIT 206 KITCHEN ELEV. 10-C

SCALE: 1/2" = 1'-0"

KITCHEN ELEVATION GENERAL NOTES

1. ALL INTERIOR ELEVATIONS ARE TYPE B UNITS UNLESS NOTED OTHERWISE.
2. ALL APPLIANCES IN COMMUNITY ROOM KITCHEN IS TO BE EQUIPPED WITH OPERABLE PARTS IN COMPLIANCE W/ A117.1 2009 804.5/ 309

1R

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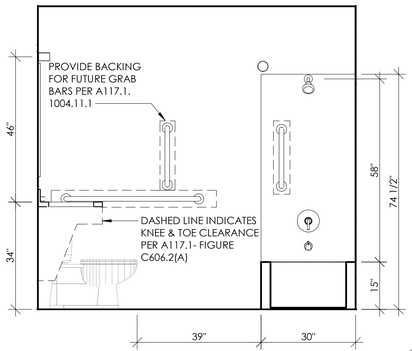
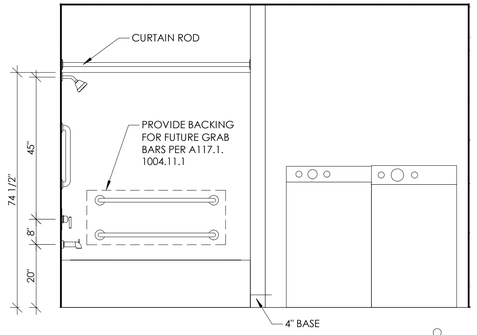
KITCHEN ELEVATIONS

A7.02



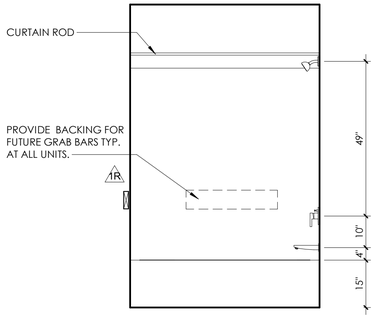
11 TYPICAL TYPE A UNIT 217 4-B

1/2" = 1'-0"



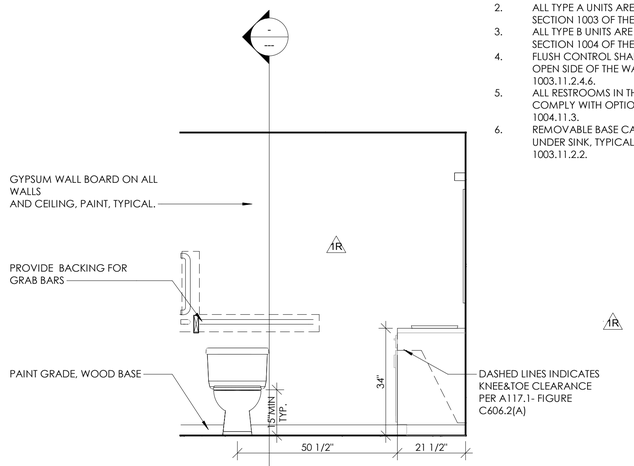
10 TYPICAL TYPE A UNIT 217 4-A

1/2" = 1'-0"



9 UNIT 213 BATH TUB 1-D, (TYPICAL)

SCALE: 1/2" = 1'-0"



8 COMMUNITY BATHROOM ELEV. A

SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. ALL INTERIOR ELEVATIONS ARE TYPE B UNITS UNLESS NOTED OTHERWISE.
2. ALL TYPE A UNITS ARE TO COMPLY WITH SECTION 1003 OF THE ICC A117.1 2009.
3. ALL TYPE B UNITS ARE TO COMPLY WITH SECTION 1004 OF THE ICC A117.1 2009.
4. FLUSH CONTROL SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET PER A117.1-1003.11.2.4.6.
5. ALL RESTROOMS IN THE TYPE 'B' UNITS SHALL COMPLY WITH OPTION A OR B PER A117.2009 1004.11.3.
6. REMOVABLE BASE CABINETS IN TYPE'A' UNITS UNDER SINK, TYPICAL COMPLY W/ A117.1 1003.11.2.2.

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4295 REGISTERED ARCHITECT RONALD S. THOMAS STATE OF WASHINGTON

Olympia
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Construction Permitting Only
Building Plans Examiner
Community Planning & Development Department
601 4th Ave East
Olympia, WA 98501
(360) 753-8248
rbalders@ci.olympia.wa.us

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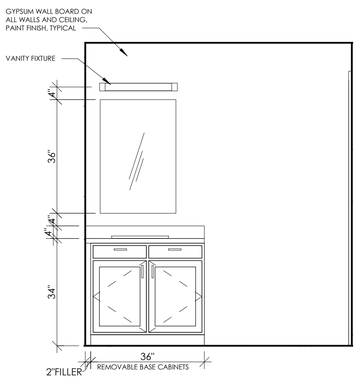
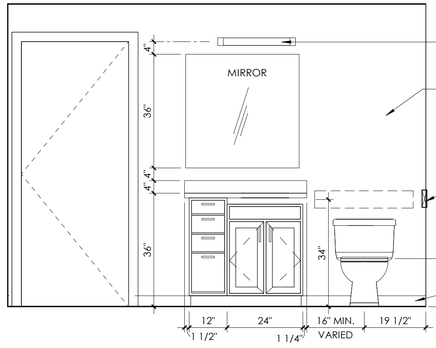
Approved as submitted.
09/17/2019



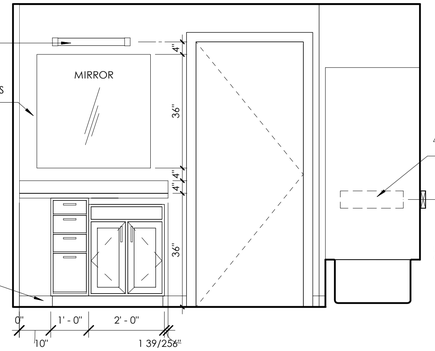
7 COMMUNITY BATHROOM ELEV. B

SCALE: 1/2" = 1'-0"



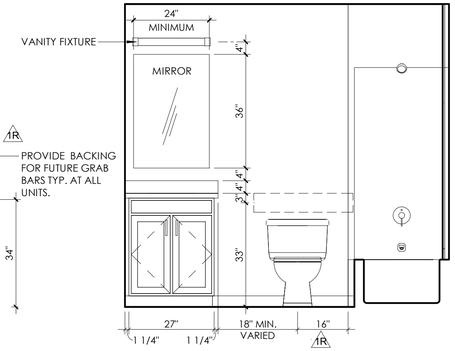
6 UNIT 317 STANDING, (RIGHT, TYP.)

SCALE: 1/2" = 1'-0"



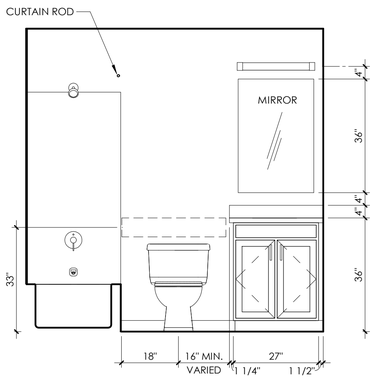
5 UNIT 201 STANDING, (LEFT, TYP.)

SCALE: 1/2" = 1'-0"



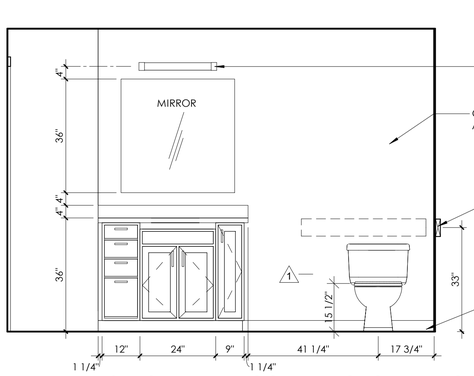
4 UNIT 217 SMALL BATHROOM 5-D, (RIGHT, TYP.)

SCALE: 1/2" = 1'-0"



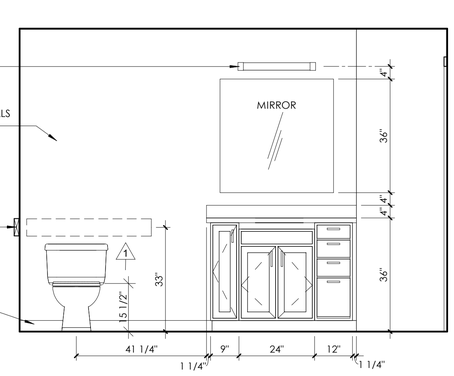
3 UNIT 216 SMALL BATHROOM 3-F, (LEFT, TYP.)

SCALE: 1/2" = 1'-0"



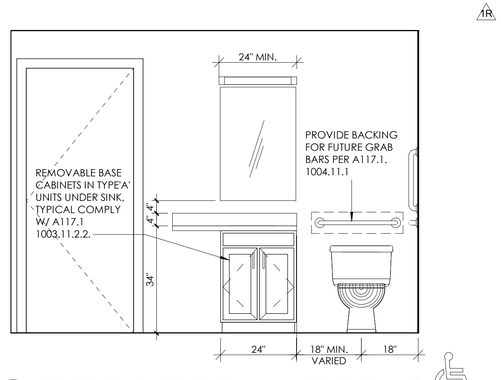
2 UNIT 211 STD. BATHROOM 1-E, (RIGHT, TYP.)

SCALE: 1/2" = 1'-0"



1 UNIT 213 STD. BATHROOM 1-B, (LEFT, TYP.)

SCALE: 1/2" = 1'-0"



12 TYPICAL TYPE A UNIT 217 4-C

1/2" = 1'-0"

EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

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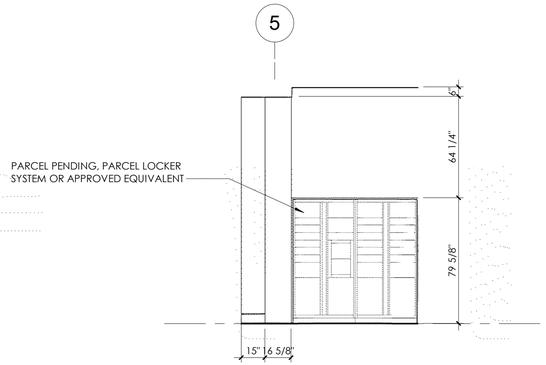
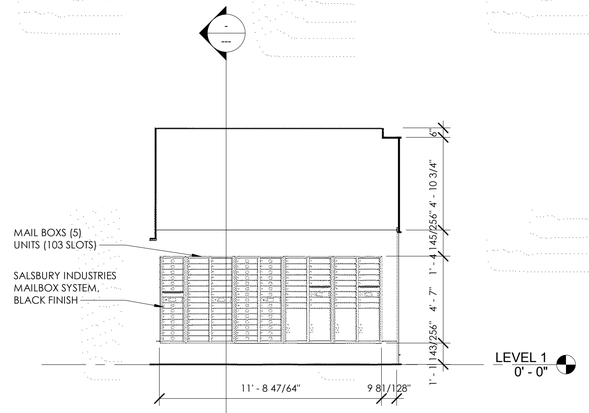
5	REVISION 5. 08-02-2019
6	REVISION 6. 09-03-2019

BATHROOM ELEVATIONS

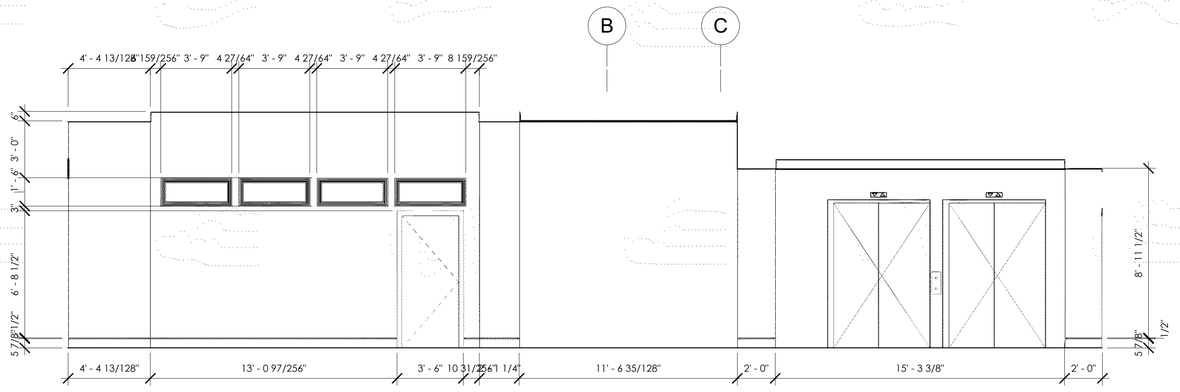
A7.03



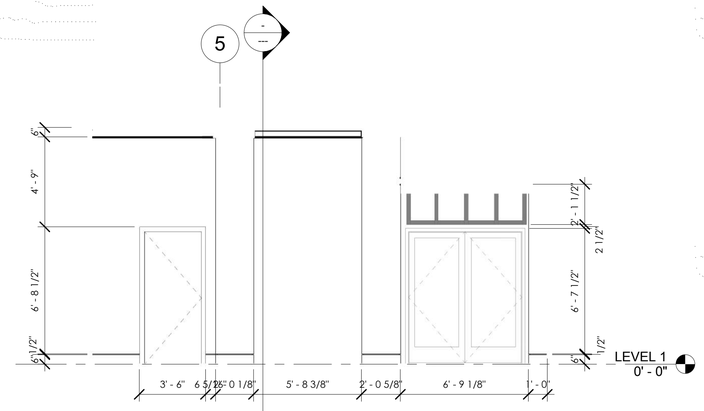
6 LOBBY PARCEL BOX
1/4" = 1'-0"



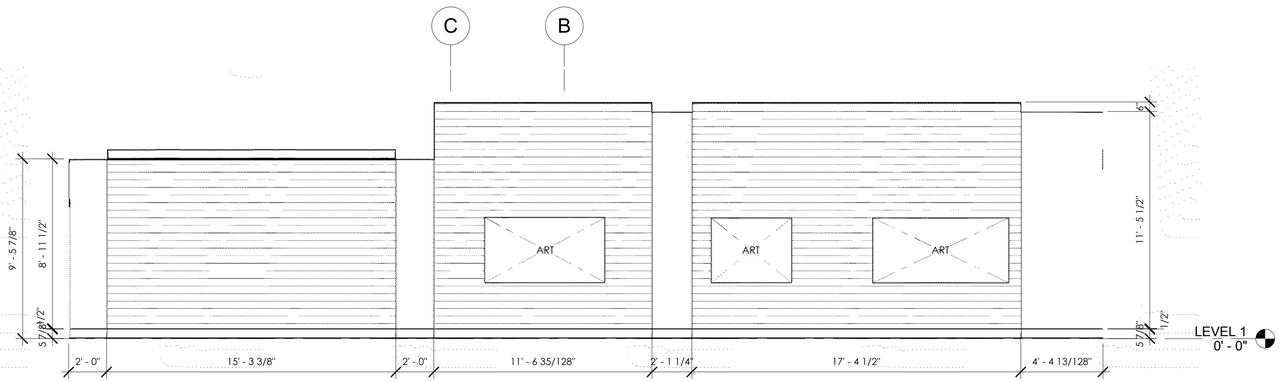
5 LOBBY MAIL BOX
1/4" = 1'-0"



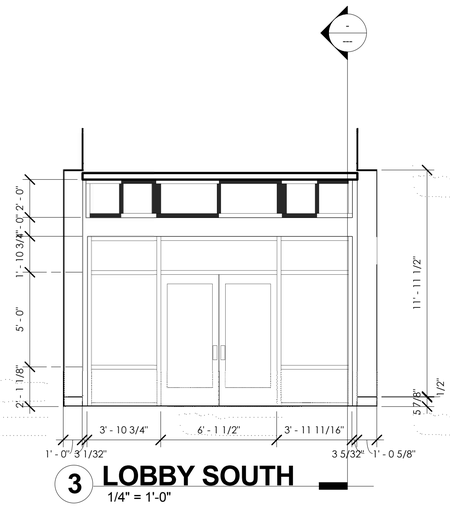
2 LOBBY WEST
1/4" = 1'-0"



4 LOBBY NORTH
1/4" = 1'-0"



1 LOBBY EAST
1/4" = 1'-0"



3 LOBBY SOUTH
1/4" = 1'-0"

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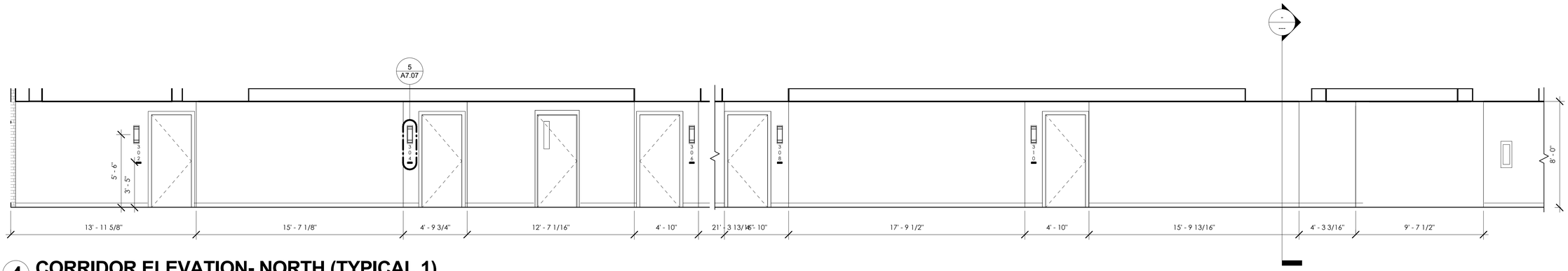
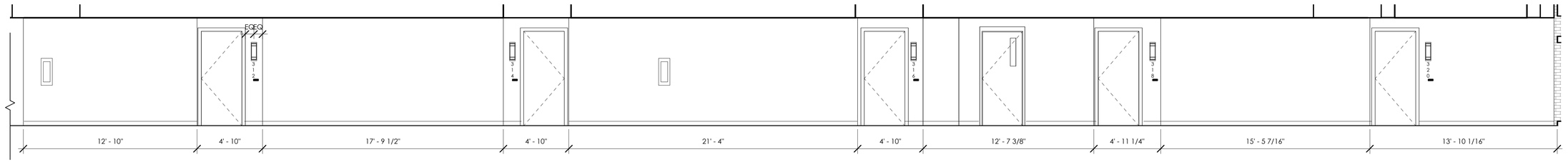
LOBBY ELEVATIONS

A7.05



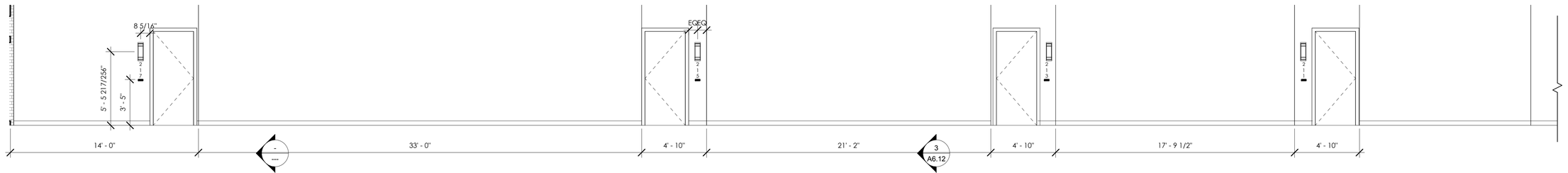
4 CORRIDOR ELEVATION- NORTH (TYPICAL 1)

1/4" = 1'-0"



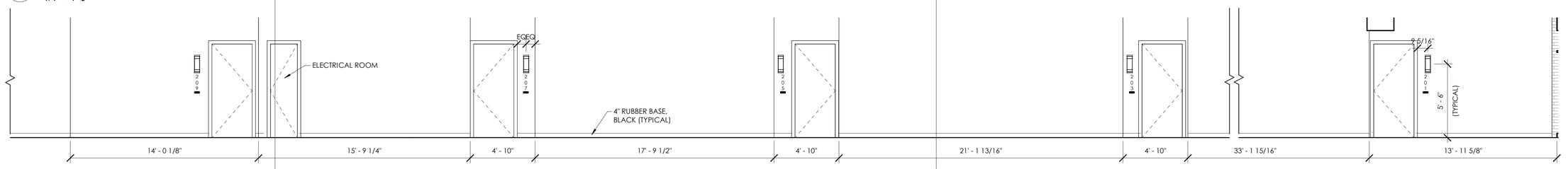
3 CORRIDOR ELEVATION- NORTH (TYPICAL 2)

1/4" = 1'-0"



2 CORRIDOR ELEVATION - SOUTH (TYPICAL 1)

1/4" = 1'-0"



1 CORRIDOR ELEVATION - SOUTH (TYPICAL 2)

1/4" = 1'-0"

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CORRIDOR ELEVATION

A7.06

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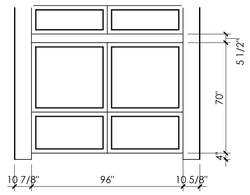
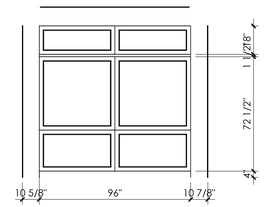
3

WALL SCONCE
KUZCO 606031 B2
(TYPICAL)

3 UNIT NUMDER RAISED, BLACK

4 UNIT NUMDER BRAILLE

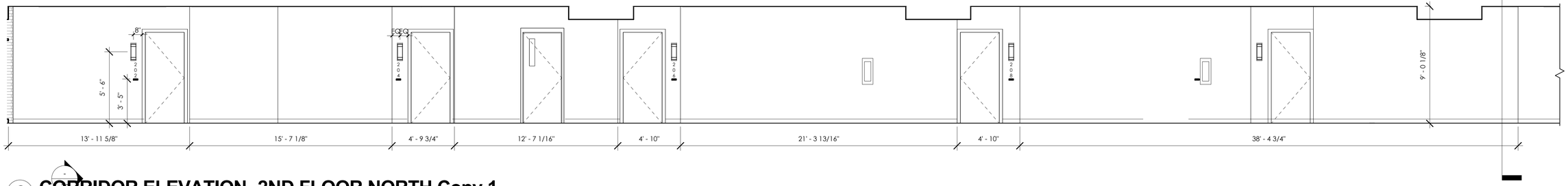




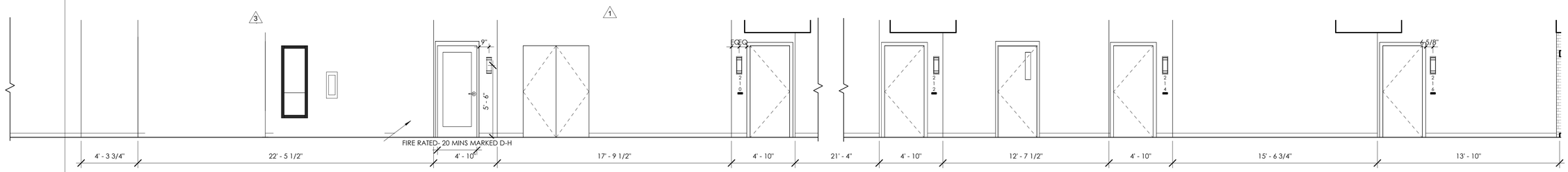
5 UNIT SCONCE
SCALE: 1/2" = 1'-0"

4 CORRIDOR ELEVATION- EAST
1/4" = 1'-0"

3 CORRIDOR ELEVATION- WEST
1/4" = 1'-0"



2 CORRIDOR ELEVATION- 2ND FLOOR NORTH Copy 1
1/4" = 1'-0"



1 CORRIDOR ELEVATION- 2ND FLOOR NORTH
1/4" = 1'-0"

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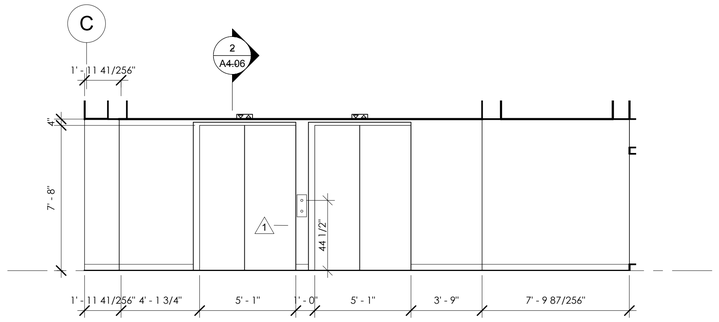
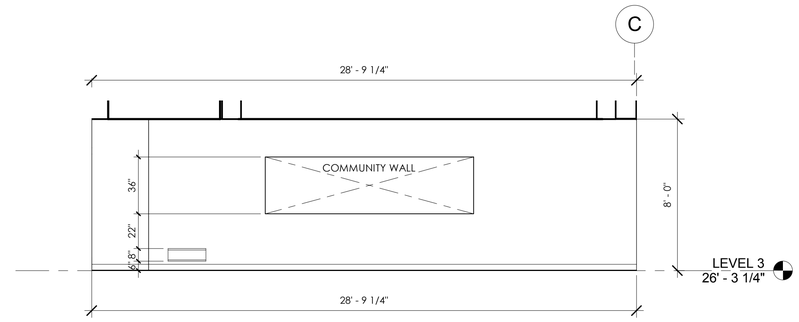
CORRIDOR ELEVATION

1 A7.07



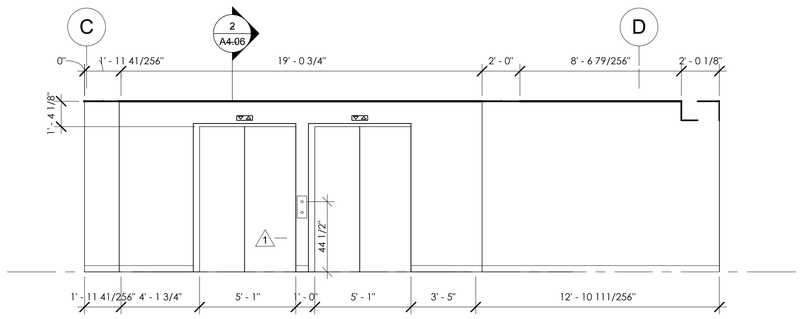
6 ELEVATOR LOBBY 3-WEST (TYPICAL)

SCALE: 1/4" = 1'-0"



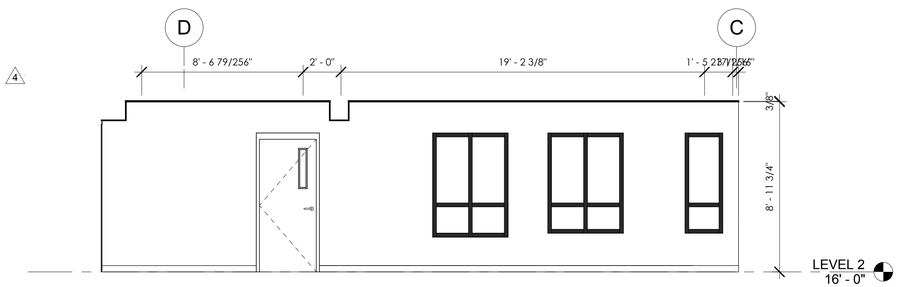
5 ELEVATOR LOBBY 3 - EAST (TYPICAL)

SCALE: 1/4" = 1'-0"



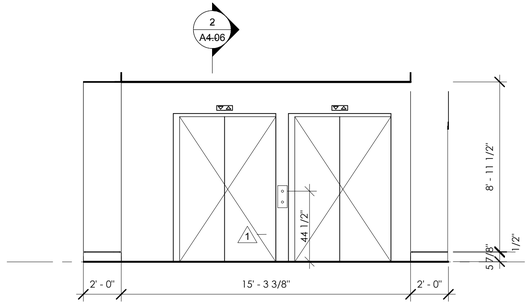
3 ELEVATOR LOBBY- SECOND FLOOR WEST

SCALE: 1/4" = 1'-0"



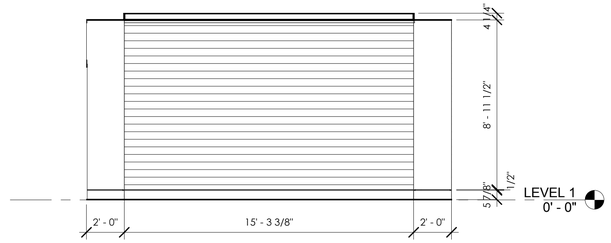
4 ELEVATOR LOBBY- SECOND FLOOR EAST

SCALE: 1/4" = 1'-0"



2 ELEVATOR LOBBY-FIRTS FLOOR WEST

SCALE: 1/4" = 1'-0"



1 ELEVATOR LOBBY- FIRST FLOOR EAST

SCALE: 1/4" = 1'-0"

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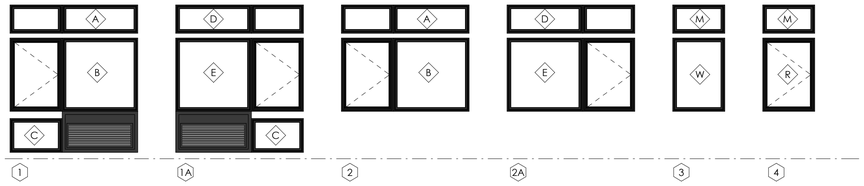
ELEVATOR LOBBY

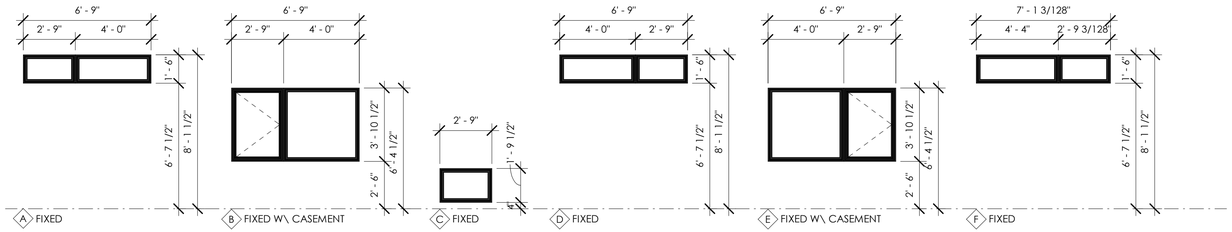
1

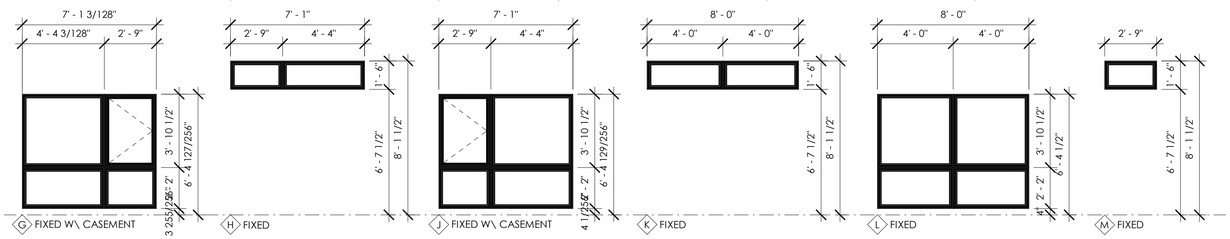
A7.08

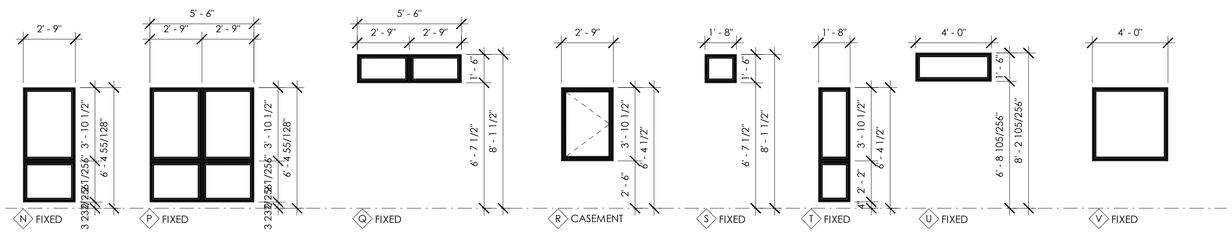


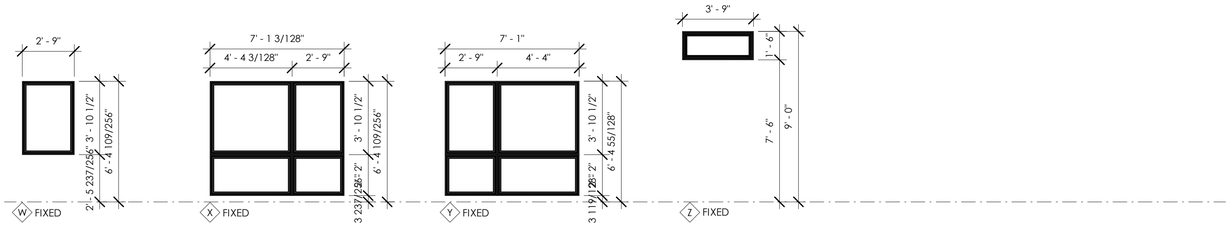
3 TYPICAL WINDOW GROUPS

1/4" = 1'-0"









2 WINDOW TYPES (ALT.)

1/4" = 1'-0"

DOOR SCHEDULE

TYPE	HEIGHT	WIDTH	CONSTRUCTION TYPE	FINISH	FIRE RATING	HARDWARE	TYPE COMMENTS
A	7' - 0"	3' - 0"	WOOD	PAINT	20 MIN.		UNIT ENTRY DOOR
A2	7' - 0"	3' - 0"					
B	7' - 0"	2' - 10"	WOOD				UNIT BATHROOM
C	7' - 0"	2' - 10"	WOOD	PAINT		3,5	UNIT BEDROOM
D	7' - 0"	2' - 10"	WOOD	PAINT		3,5	UNIT CLOSET
D1	7' - 0"	2' - 0"	WOOD				UNIT CLOSET
D2	7' - 0"	2' - 6"	WOOD	PAINT		3,5	UNIT CLOSET
E	7' - 0"	5' - 0"	WOOD	PAINT		4	UNIT CLOSET
E1	7' - 0"	6' - 0"	WOOD	PAINT		4	UNIT CLOSET
F1	7' - 0"	5' - 0"		PAINT			UNIT LAUNDRY
G1	7' - 0"	2' - 0"	WOOD	PAINT	90 MIN.	3,5,7,10	MISC.
H	7' - 0"	3' - 0"	METAL	PAINT		5,6,11,13	BIKE STARAGE
H1	7' - 0"	3' - 0"	METAL	PAINT	90 MIN.	5,6,11,13	STAIR EXTERIOR
J	7' - 0"		WOOD	CLEAR SEALER		5(PAIR),6,7,11,14,15	MAIN ENTRY
J1	7' - 0"		WOOD				RETAIL ENTRY
J2	7' - 9 1/2"	5' - 9 31/64"	ALUMINUM	DARK BRONZE		3,5 (PAIR),6,10,11	COMMON SPACE
K	7' - 0"	3' - 0"	WOOD		90 MIN.		STAIR INTERIOR
N	7' - 9 1/2"	2' - 11 3/4"	FIBERGLASS	DARK BRONZE		3,5,6,10,11	
S	7' - 0"	3' - 0"	FIBERGLASS	DARK BRONZE	60 MIN.	2,5,7,9,10,11	UNIT W/ PATIO
T	7' - 0"	3' - 0"					
Y	7' - 0"	6' - 0"		PAINT		3	
Z	7' - 0"	3' - 0"		PAINT		5,6,11,13	COMMUNAL ROOM

GENERAL NOTES:

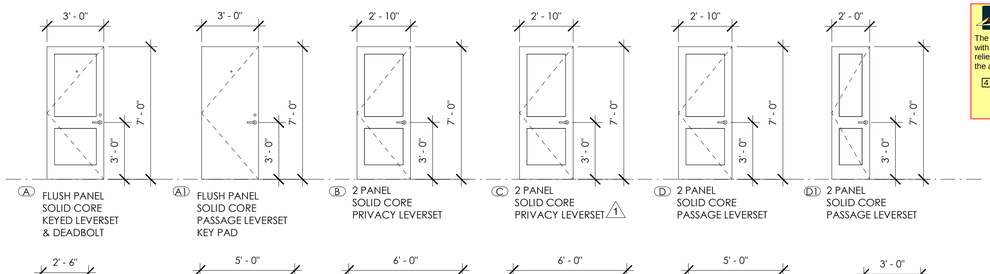
1. WINDOWS SHALL HAVE A MINIMUM U-VALUE = 0.30 OR BETTER & A SHGC = 0.40 OR BETTER.
2. ALL WINDOWS TO RECEIVE GYPSUM WALL BOARD WRAP @ HEAD AND JAMBS, PAINT GRADE WOOD AT SILL & APRON.
3. BASIS OF DESIGN: VINYL WINDOWS SHALL BE MILGARD VINYL, OR APPROVED EQUAL.
   COLOR: DARK BRONZE EXTERIOR, WHITE INTERIOR.
4. ALL PRODUCTS SHALL BE LABELED W/ RATED U-FACTOR, SHGC, VT, & LEAKAGE RATING.
5. EMERGENCY ESCAPE SHALL BE OPERATIONAL FROM INSIDE THE ROOM WITHOUT USE OF TOOLS. PER IBC 1030.4. AND OPERATIONAL PARTS SHALL BE OPERABLE W/ ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO ACTIVATE. OPERABLE FORCE SHALL BE 5 POUNDS MAX.
6. ALL OPERABLE WINDOWS ABOVE THE FIRST FLOOR WITH A SILL HEIGHT LESS THAN 36" ABOVE THE FINISHED FLOOR SHALL BE EQUIPPED WITH A FACTORY INSTALLED FALL PREVENTION DEVICE PER ASTM F 2090
7. ALL WIDOWS TO HAVE TRICKLE VENTS 15" TO 48" AFF. PROVIDE 12 SQUARE INCHES PER UNIT. SEE MECHANICAL FOR WHOLE HOUSE VENTILATION METHODS.

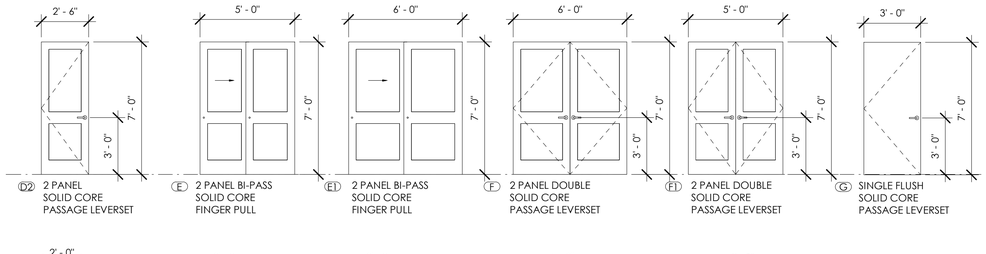
HARDWARE TYPES - DESIGN BASIS

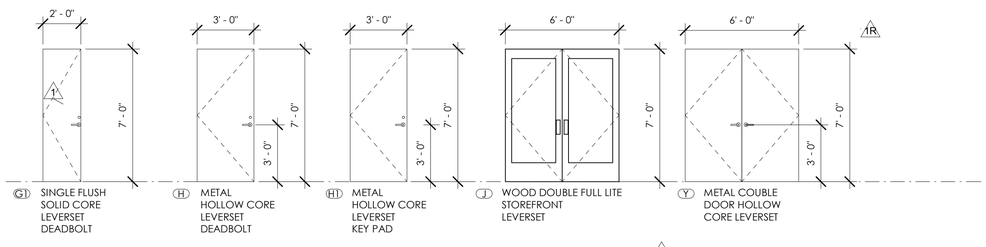
TYPE	NAME	NOTE
1	ENTRY	KEYED LEVERSET
2	PRIVACY	PRIVACY LEVERSET
3	PASSAGE	PASSAGE LEVERSET
4	BI-PASS	FINGER PULL
5	HINGES	OIL RUBBED BRONZE FINISH
6	CLOSER	PROVIDE SELF CLOSING HINGES OR CLOSER PER IBC 716.5.9
7	DEAD BOLT	OIL RUBBED BRONZE FINISH
8	PANIC BAR	VON DUPRIN 9875, OIL RUBBED BRONZE FINISH
9	DOOR BUMPER	WALL MOUNTED DOOR BUMPER
10	SMOKE/WEATHER SEAL	BLACK
11	THRESHOLD	BLACK
12	DOOR VIEWER MOUNT	50" ABOVE FINISH FLOOR
13	KEYPAD	COMBO LOCK, OIL RUBBED BRONZE FINISH
14	FLUSH BOLT	RECESSED FLUSH BOLT
15	DOOR STOP	FOLD DOWN DOOR STOP

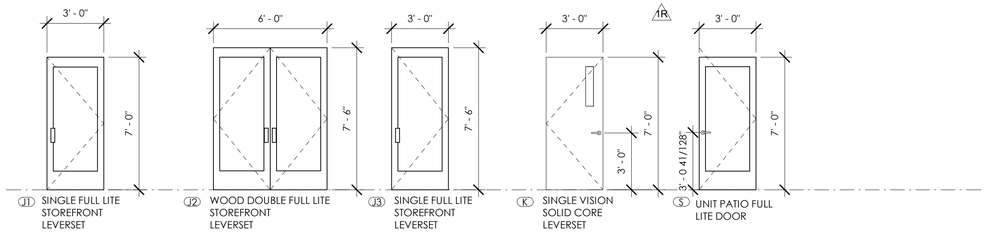
NOTES:

1. DOOR BASIS OF DESIGN:
   EXTERIOR ENTRY: SIMPSON DOOR COMPANY, EXTERIOR FRENCH AND SASH DOOR WIDE STILE W/ 3/4" GLASS IN DOOR, OR APPROVED EQUAL. "SHALL HAVE A MINIMUM U-VALUE = 0.6 OR BETTER & SHGC = 0.40 OR BETTER"
   INTERIOR DOORS: 2-PANEL DOORS SHALL BE MASONITE, HERITAGE SERIES, LOGAN, SOLID CORE DOOR, SMOOTH FINISH. PAINT PER FINISH SCHEDULE, OR APPROVED EQUAL.
2. PROVIDE STEEL FLUSH PANEL DOORS AT EXTERIOR UTILITY SPACES.
3. MAXIMUM AIR INFILTRATION RATE TO COMPLY WITH TABLE C402.4.3 OF THE WAC 51-11C-40243.
   MAXIMUM RATE:
   3.a. SWINGING DOORS TO HAVE 0.2 CFM/SF, 0.30 CFM PER SQ FT IS ALLOWED WHEN TESTED IN ACCORDANCE, PER WAC 51-11C-40243.
4. ALL EXTERIOR DOORS SHALL BE AAMA PERFORMANCE RATED DOOR TO MEET MINIMUM THERMAL PERFORMANCE CRITERIA AND AIR LEAKAGE PER THE ENERGY CODE, WITH A WATER PENETRATION RESISTANCE RATING.
5. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
6. ALL DOORS W/GLAZING SHALL BE SAFETY GLAZING PER IBC 2406. 1R









1 DOOR TYPES

1/4" = 1'-0"

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WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
BUILDING PERMIT SET
09/09/2019

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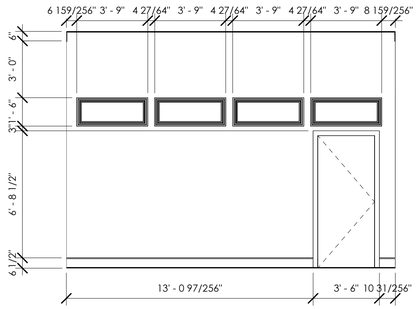
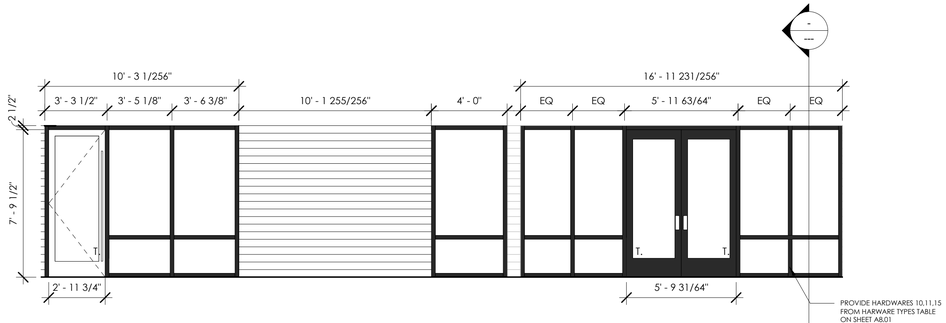
6	REVISION 6. 09-03-2019

DOOR SCHEDULE

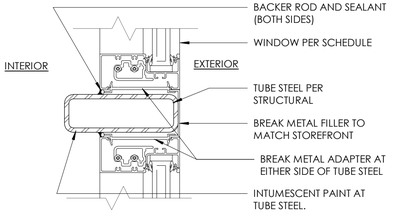
A8.01



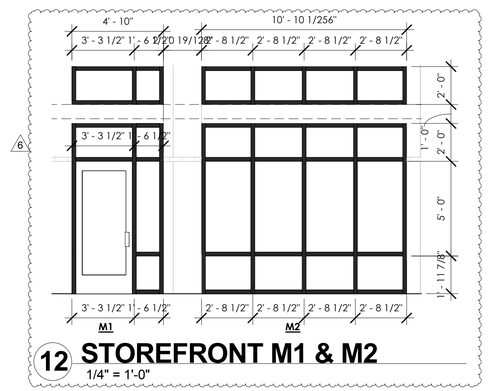
15 STOREFRONT P @ LOBBY WEST
1/4" = 1'-0"



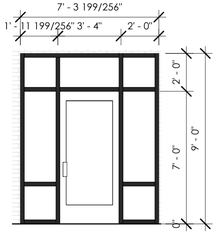
14 STOREFRONT - SECOND FLOOR BALCONY
1/4" = 1'-0"



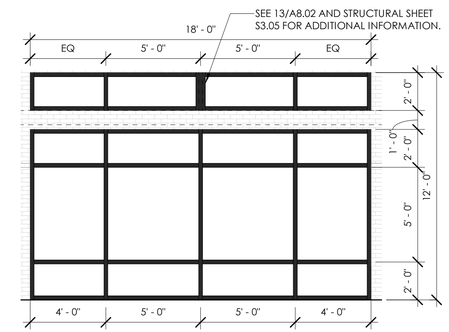
13 STOREFRONT JAMB @ TRANSOM
3" = 1'-0"



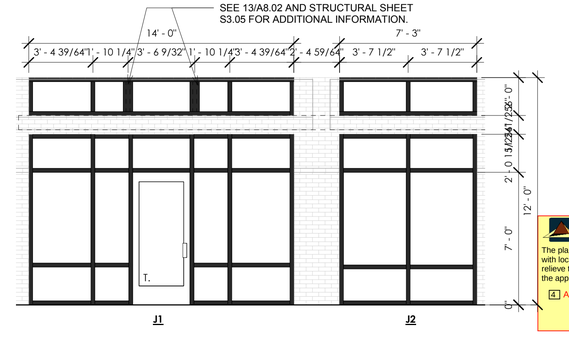
12 STOREFRONT M1 & M2
1/4" = 1'-0"



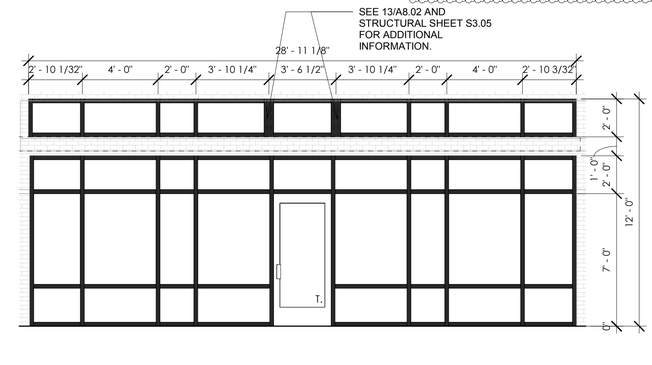
11 STOREFRONT L
1/4" = 1'-0"



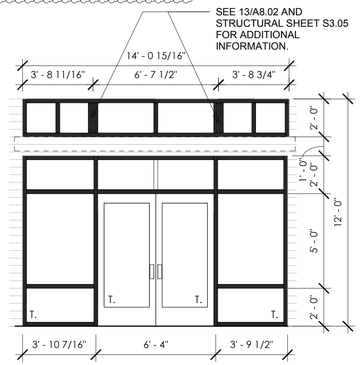
10 STOREFRONT K
1/4" = 1'-0"



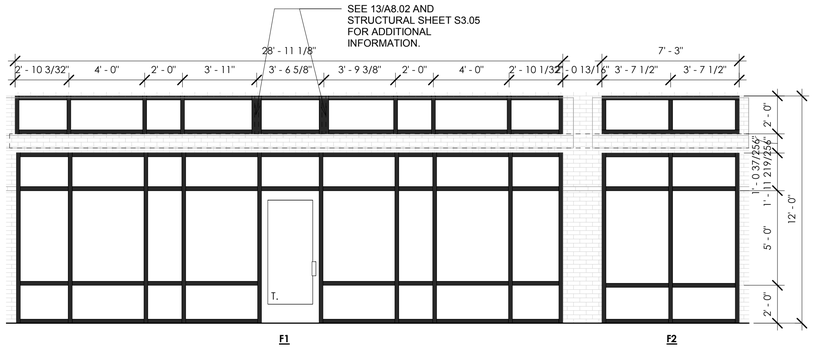
9 STOREFRONT J1 & J2
1/4" = 1'-0"



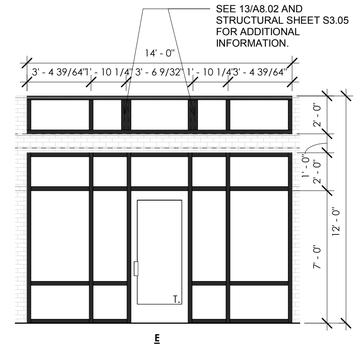
8 STOREFRONT H
1/4" = 1'-0"



7 STOREFRONT G
1/4" = 1'-0"

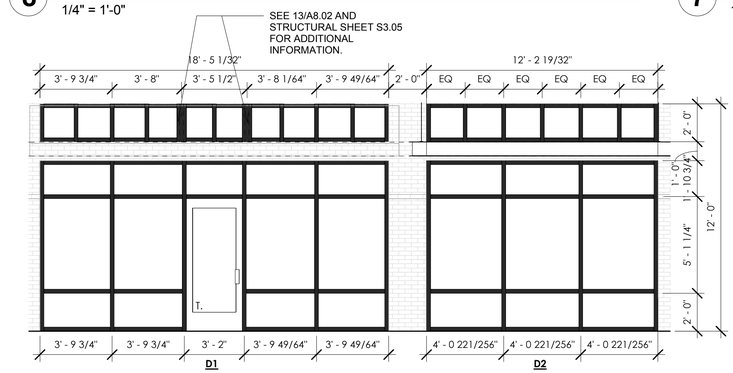


6 STOREFRONT F1 & F2
1/4" = 1'-0"



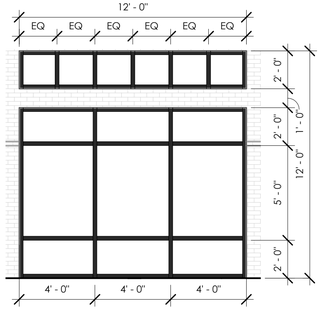
5 STOREFRONT E
1/4" = 1'-0"

NOTE: "STOREFRONT WINDOWS SHALL HAVE A MINIMUM U- VALUE = 0.38 OR BETTER & SHGC = 0.40 OR BETTER"

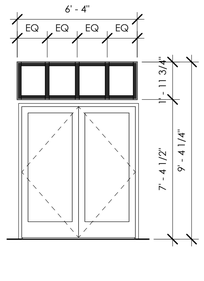


4 STOREFRONT D1 & D2
1/4" = 1'-0"

3 STOREFRONT C
1/4" = 1'-0"



2 STOREFRONT B
1/4" = 1'-0"



1 STOREFRONT A
1/4" = 1'-0"

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STOREFRONT SCHEDULE

3 A8.02

BASIS OF DESIGN: WESTMAN MILL

SITE FINISHES
PATIOS AND WALKWAYS
- CONCRETE W/ BROOM FINISH (UNO)
- BOARDWALK: STAMPED CONCRETE; SLIP RESISTENT

EXTERIOR BUILDING FINISHES
ROOFING
- TPO ROOF MEMBRANE

SIDING
- FIBER CEMENT SIDING: JAMES HARDI; 5/16" HARDIPANEL VERTICAL SIDING, SMOOTH; PRIME AND PAINT W/ SHERWIN WILLIAMS; COLOR TBD
- FIBER CEMENT SIDING REVEAL: FRY REGLET REVEAL - DRM-50-50- PAINT TO MATCH FCP SIDING
- BRICK: MUTUAL MATERIALS - FACING BRICK - FROST BLEND, EBONY, RAVEN

TRIM
- WINDOW TRIM: CEDAR (FLASH AS REQ'D); PRIME AND PAINT W/ SHERWIN WILLIAMS "BEST BRONZE" SW 6160

TOP CASING:5/4" X 6"
SIDE CASING:1" X 4"
STOOL: 2x SHAPED TO DRAIN AND DRIP
APRON: NONE
- EAVES FASCIA (BEHIND GUTTERS): PRIME AND PAINT TO MATCH WINDOW TRIM
  AT 2X8 RAFTERS5/4"X6 CEDAR
  AT 2X10 RAFTERS5/4"X8 CEDAR
- GABLE FASCIA: PRIME AND PAINT TO MATCH WINDOW TRIM
  AT 2X10 RAFTERS;1X3 CEDAR RAKE ON 5/4" X10 CEDAR FASCIA
  AT 2X8 RAFTERS;1X3 CEDAR RAKE ON 5/4"X8 CEDAR FASCIA

WINDOWS
- VINYL WINDOWS: PLY-GEM 600 SERIES, DARK BRONZE
- AT MAIN ENTRY: ALUMINUM STOREFRONT WINDOWS AND DOORS; 1" LOW-E INSULATED GLAZING IN THERMALLY BROKEN STOREFRONT SYSTEM, ANODIZED "BRONZE" FACTORY FINISH

SHEET METAL
- PARAPET CAP, GUTTERS, DOWNSPOUTS, AND SCUPPER/OVERFLOW; FF TO MATCH METAL ROOFING

EXTERIOR GUARD
- POST: ½" X 3" STEEL POST; CUSTOM SHAPE (WELD TO 5" X 7" X ½" CONNECTION PLATE); FINISH PER STRUCTURAL METAL
- 1/2" SQUARE VERTICAL STEEL PICKETS AT 4" OC
- TOP RAIL CAP: 2X8 CEDAR; SLOPE TO DRAIN BACK TO BALCONY; STAIN AND SEAL

EXTERIOR HAND RAIL
- HAND RAIL: GALVANIZED METAL 1 ¼" I.D. PIPE; PRIME AND PAINT TO MATCH METAL ROOFING

PATIOS
- CONCRETE WITH BROOM FINISH

INTERIOR FINISHES
CEILING:
- GWB: LIGHT ORANGE PEEL TEXTURE; PAINT WITH SHERWIN WILLIAMS, COLOR TBD, EGGSHELL SHEEN (UNO); VERIFY ALL PAINTS WITH TEST SAMPLE BEFORE FINAL PAINTING; COORDINATE W/ OWNER AND DESIGN PROFESSIONAL
- AT KITCHEN: CEILING TO HAVE SMOOTH SURFACE AND EPOXY PAINT FINISH; "WHITE" (TYP.)
- SEE GENERAL ROOM SCHEDULE FINISH NOTES FOR ADDITIONAL INFORMATION.
- ACCOUSTICAL TILE: LOBBY CEILING, GAME ROOM CEILING, LOUNGE CEILING: ARMSTRONG SURFACE APPLIED: DUNE - SECOND LOOK

WALLS:
- GWB WALLS: LIGHT ORANGE PEEL TEXTURE; PAINT WITH SHERWIN WILLIAMS, COLOR TBD, EGGSHELL SHEEN (UNO); VERIFY ALL PAINTS WITH TEST SAMPLE BEFORE FINAL PAINTING; COORDINATE W/ OWNER AND DESIGN PROFESSIONAL
- UP TO 3 ACCENT PAINT COLORS
- WOOD ACCENT WALLS IN LOBBY: 1x6 CEDAR PLANKS (1/4" GAP) WITH ON 5/8" FURRING STRIPS PAINTED BLACK. 2 SCREW FASTENERS PER END OF PLAN
- ELEVATOR LOBBY FLOORS 2-5: VINYL WALL ART FULL HEIGHT

WALL BASE:
- AT CARPETED AREAS: 4" RUBBER BASE: JOHNSONITE CONTOURED WALL BASE;
- AT VINYL FLOORING: 4" PAINT GRADE WOOD TRIM. PAINT: SHERWIN WILLIAMS; COLOR TBD

DOORS AND HARDWARE:
- AT RATED METAL FRAMES: TIMLEY (OR EQUAL) PRIMED AND PAINTED WITH SHERWIN WILLIAMS ENAMEL.
- SOLID CORE WOOD LEAF: SIMPSON; FLUSH PANEL (STRAIGHT GRAIN FIR) WITH CLEAR STAIN FINISH; OR EQUAL
- HOLLOW METAL LEAF: PRIMED AND PAINTED WITH SHERWIN WILLIAMS ENAMEL
- METAL FRAMES: TIMLEY (OR EQUAL) PRIMED AND PAINTED WITH SHERWIN WILLIAMS ENAMEL.
- HARDWARE: ALL SIDE HINGE SWING DOORS TO HAVE 1 1/2 PAIR OF HINGES, STOP, SILENCER, AND LATCH SET WITH LEVER DOOR HANDLE; "ATHENS" OR "SPARTA" LEVER DESIGN (OR EQUAL); 626 "OIL RUBBED BRONZE" FINISH
- DESIGNATED MAIN ENTRY DOORS SHALL BE PROVIDED W/ KAWNEER STANDARD ARCHITECTS CLASSICS HARDWARE (OR EQUAL) W/ EXTERIOR MOUNTED 1" ROUND 9" OFFSET PULL (CO-9/CO-12); INTERIOR MOUNTED PANIC HARDWARE; OIL RUBBED BRONZE FINISH

1R

ELECTRICAL TRIM
- WHITE

FLOORING:
- AT CORRIDORS: CARPET TILE; MOHAWK, PT359 AUDACIOUS TILE; 999 LEATHER JACKET
- AT LOUNGE: CARPET TILE: MOHAWK, EB104-7879 BASALT WATERVILLE
- AT UNITS & GAME ROOM: VINYL PLANK: KARNDEAN K-TRADE SERIES, COLOR TBD.
- AT ALL RESTROOMS: 12X24 TILE: UNITED TILE – CROSSVILLE- GOTHAM-AV324 MAINLINE.
- 4" TILE BASE TO MATCH 4"x24" SINGLE BULLNOSE
- AT LOBBY: STAINED CONCRETE
- STAIRWAYS: CARPET TILE OR SHEET CARPET

FLOOR TRANSITIONS:
- TYPICALLY USE SCHLUTER SYSTEMS EDGING (OR EQUAL) AT FLOOR MATERIAL TRANSITIONS, STAINLESS STEEL, OR DARK ANNODIZED ALUMINUM

TRIM:
- AT COMMON AREAS: 4" RUBBER BASE, JOHNSONITE MANDALAY
- AT ADMINISTRATIVE, STAFF, UTILITY AREAS: STANDARD 4" RUBBER BASE – COLORS,TBD
- WINDOWS: GWB WRAP WITH ¾" WOOD SILL (ROUNDED NOSE) AND 3/4" APRON TRIM; CLEAR FACTORY FINISH

WINDOW BLINDS:
- ROLLER SHADES : LEVOLOR - BLACK-OUT – COLOR: WHITE

CASEWORK:
- ARISTOKRAFT, BRELLIN, COLOR TBD
- PULLS: STANDARD WIRE PULLS (96MM CENTER TO CENTER) WITH "OIL RUBBED BRONZE" FINISH (UNO)
- HARDWARE: EUROPEAN HINGES, SOFT-CLOSE WITH "OIL RUBBED BRONZE" FINISH; (UNO)

COUNTERTOP EDGE AND BACKSPLASH:
- AT UNITS: CORIAN: QUARTZ
- AT COMMON AREAS: QUARTZ

TOILET ROOM FIXTURES
- TOILET TISSUE DISPENSER: CHROME FINISH
- PAPER TOWEL DISPENSER: BRUSHED STAINLESS STEEL FINISH
- GRAB BARS: BRUSHED STAINLESS STEEL FINISH

ELEVATOR
- DUAL, SIDE BY SIDE
- MANUFACTURE: SCHINDLER ELEVATOR CORPORATION
- TYPE: 330A HOLELESS HYDRAULIC
- SPEED: FPM UP 125
- CAPACITY: 4500 LBS
- DOOR TYPE: 4'-0" WIDE SIDE OPENING
- CAB DIMENSIONS (CLEAR INSIDE) 7'-9.5"X5'-8" 1R
- ADA COMPLIANT PER IBC, 3002.4, 1009.2.1, 1009.4, 1009.8

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BASIS OF DESIGN

A8.03

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS, WALL CONFIGURATIONS. INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	CONCENTRATED LOADS
ROOF	20 PSF	30 PSF (1)	300#
RESIDENTIAL	35 PSF	40 PSF	
STAIRS	20 PSF	100 PSF	300#

(1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.10.
(2) LIVE LOAD REDUCTION NOT PERMITTED EXCEPT AS NOTED IN IBC SECTION 1607.10.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF + 5 PSF RAIN ON SNOW)

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH IN CONJUNCTION WITH STEEL PILES. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE IN ADDITION TO STRUCTURAL PILES.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "METHOD 2 - SIMPLIFIED ENVELOPE PROCEDURE" PER ASCE 7-10.

- EXPOSURE CATEGORY = C
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 110 MPH
- RISK CATEGORY PER TABLE 1.5-1 = II
- TOPOGRAPHIC FACTOR K_{ZT} = 1.0
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES [1]						
EFFECTIVE WIND AREA	POSITIVE PRESSURES (PSF)			NEGATIVE PRESSURES (PSF)		
	ZONE [2]					
	1	2	3	1	2	3
10 SF	16.0	16.0	16.0	-35.3	-59.1	-89.1
20 SF	16.0	16.0	16.0	-34.3	-52.8	-43.7
50 SF	16.0	16.0	16.0	-33.2	-44.6	-53.6
100 SF	16.0	16.0	16.0	-32.2	-38.2	-38.2

WALL SURFACES AND ROOF OVERHANGS [1]						
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)		NEGATIVE PRESSURE (PSF)		ROOF OVERHANGS (PSF)	
	ZONE [2]					
	4	5	4	5	2	3
10 SF	35.3	35.3	-38.2	-47.1	-50.9	-83.6
20 SF	33.7	33.7	-36.6	-44.1	-49.9	-65.6
50 SF	31.6	31.6	-34.5	-39.9	-48.8	-47.0
100 SF	30.0	30.0	-33.0	-36.6	-47.8	-24.0
500 SF	26.2	26.2	-29.3	-29.3	-47.8	-24.0

1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
2. ZONES ARE AS DEFINED BY FIGURE 30.5-1 IN ASCE 7-10.

SEISMIC: (ASCE 7-10) V = CsW

WHERE $Cs = \dfrac{S_{DS}}{(\frac{R}{Ie})}$; WITH

$Cs\ MINIMUM = 0.044\, S_{DS} I_E \geq$

OR

$Cs\ MINIMUM = \dfrac{0.5S_1}{\frac{R}{Ie}}$ FOR $S_1 > 0.6g$

$Cs\ MAXIMUM = \dfrac{S_{D1}}{T(\frac{R}{Ie})}$ FOR $T \leq$

OR

$Cs\ MAXIMUM = \dfrac{S_{D1}T_L}{T^2 (\frac{R}{Ie})}$ FOR $T > T_L$

SEISMIC IMPORTANCE FACTOR, Ie = 1.0
RISK CATEGORY OF BUILDING PER TABLE 1.5-1 = II
SPECTRAL RESPONSE ACCELERATIONS S_S = 1.33 & S_1 = 0.55
SITE CLASS PER TABLE 20.3-1 = E
DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 0.80 & S_{D1} = 0.87
SEISMIC DESIGN CATEGORY = D
W = EFFECTIVE SEISMIC WEIGHT OF WOOD FRAMING = 3,091 K
TOTAL SEISMIC WEIGHT OF CENTRAL BUILDING = 6,065 K
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R FOR WOOD FRAMING = 6.5, FOR SPECIALLY REINFORCED CONCRETE SHEAR WALLS = 5
Cs FOR WOOD FRAMING = 0.123, SPECIALLY REINFORCED CONCRETE SHEAR WALLS = 0.160
DESIGN BASE SHEAR V FOR WOOD FRAMING = 381 K
TOTAL BASE SHEAR V FOR CENTRAL BUILDING = 975 K

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA (REFER TO GEOTECHNICAL REPORT BY LANDAU ASSOCIATES.)

16"Ø STEEL OPEN ENDED PILE CAPACITY: 380 KIPS ALLOWABLE STATIC BEARING CAPACITY PER GEOTECHNICAL REPORT, PILE DRIVEN 95-115FT BGS TYPICAL UNLESS NOTED OTHERWISE ON PLAN

PASSIVE RESISTANCE: 200 PCF STATIC (INCLUES F.O.S. ≥ 1.5)
390 PCF SEISMIC (INCLUDES F.O.S. ≥ 1.1)

IN THE CASE THAT THE ALLOWABLE BEARING CAPACITY IS ACHIEVED PRIOR TO REACHING THE MINIMUM STATED BGS DEPTH, THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER FOR FURTHER INSTRUCTION OR APPROVAL.

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (F'c= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

FREE DRAINING BACKFILL MATERIAL

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%,

WITH A MAXIMUM DUST RATIO $\dfrac{\text{\% PASSING U.S. NO. 200 SIEVE}}{\text{\% PASSING U.S. NO. 40 SIEVE}}$ = 2/3 MAX.

STEEL PILES

PDA TESTING IS AT THE CONTRACTOR'S OPTION. THIS TESTING METHOD IS RECOMMENDED AS IT MAY JUSTIFY SHALLOWER PILE EMBEDMENT DEPTHS WHICH WOULD RESULT IN A MORE COST EFFECTIVE DEEP FOUNDATION.

AT A MINIMUM A WAVE EQUATION ANALYSIS PROGRAM (WEAP) SHALL BE PERFORMED PER THE WSDOT STANDARD SPECIFICATION SECTION 6-05.

MATERIAL: PIPE PILES - ASTM A252 GR3 (Fy = 45 KSI)

TIP DESIGN: TIP DESIGN SHALL BE PER CONTRACTOR AND TAKE INTO CONSIDERATION INSTALLATION REQUIREMENTS.

INSTALLATION: INSTALL IN A TRUE VERTICAL POSITION. REFER TO THE GEOTECHNICAL REPORT TO DETERMINE THE GENERALIZED SUBSURFACE PROFILES, DRIVEABILITY, SOIL PROPERTIES, CONSTITUENTS, EXISTING SITE FEATURES AND CONDITIONS, AND LOAD TESTING PROTOCALS.

INDICATOR PILES: THE LENGTH OF THE PILE REQUIRED AND THE PILE INSTALLATION SHALL BE VERIFIED IN THE FIELD BY A QUALIFIED INSPECTOR WHO WILL EVALUATE THE CONTRACTOR'S OPERATION AND COLLECT, INTERPRET AND RECORD DATA. A MINIMUM OF TWO INDICATOR PILES SHALL BE DRIVEN BEFORE ORDERING PRODUCTION PILES TO ESTIMATE THE TRUE PILE LENGTHS AND DETERMINE DRIVING CHARACTERISTICS AND PROBLEMS. A QUALIFIED INSPECTOR SHALL EVALUATE INSTALLATION OF INDICATOR PILES.

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE":

ACI:
1. ACI-117 'SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION, MATERIALS AND COMMENTARY'.
2. ACI-301 'STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
3. ACI-302.1 'GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION'.
4. ACI-304 'GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE'.
5. ACI-305.1 'SPECIFICATIONS FOR HOT WEATHER CONCRETING'.
6. ACI-306.1 'STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING'.
7. ACI-308.1 'STANDARD SPECIFICATION FOR CURING CONCRETE'.
8. ACI-309 'GUIDE FOR CONSOLIDATION OF CONCRETE'.
9. ACI-311.4 'GUIDE FOR CONCRETE INSPECTION'.
10. ACI-315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.
11. ACI-318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
12. ACI 347 'GUIDE TO FORMWORK FOR CONCRETE'.
13. ACI 303.1 'STANDARD SPECIFICATION FOR CAST-IN PLACE/ARCHITECTURAL CONCRETE'.

ASTM:
1. ASTM C33 'STANDARD SPECIFICATION FOR CONCRETE AGGREGATES'.
2. ASTM C94 'STANDARD SPECIFICATION FOR READY-MIX CONCRETE'.
3. ASTM C150 'STANDARD SPECIFICATION FOR PORTLAND CEMENT'.
4. ASTM C260 'STANDARD SPECIFICATION FOR AIR-ENTRAINED ADMIXTURES FOR CONCRETE'.
5. ASTM C309 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE'.
6. ASTM C494 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE'.
7. ASTM C595 'STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS'.
8. ASTM C618 'STANDARD SPECIFICATION FOR ... FLY-ASH...'.
9. ASTM C989 'STANDARD SPECIFICATION FOR SLAG...'.
10. ASTM C1017 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE'.
11. ASTM C-1116 'STANDARD SPECIFICATION FOR FIBER-REINFORCED CONCRETE'.
12. ASTM C-1218 'STANDARD TEST METHOD FOR WATER-SOLUBLE CHLORIDE IN MORTAR AND CONCRETE'.
13. ASTM C-1315 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS HAVING SPECIAL PROPERTIES FOR CURING AND SEALING'

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

STRUCTURAL DRAWING INDEX	
SHEET NUMBER	**SHEET DESCRIPTION**
S1.00	GENERAL NOTES
S1.01	GENERAL NOTES
S1.02	GENERAL NOTES
S1.03	GENERAL NOTES
S1.04	GENERAL NOTES
S2.00	MAIN BUILDING PILE PLAN
S2.01	MAIN BUILDING FOUNDATION PLAN
S2.02A	MAIN BUILDING SECOND FLOOR SLAB REINFORCEMENT PLAN
S2.02B	MAIN BUILDING SECOND FLOOR SLAB P.T. PLAN
S2.02C	MAIN BUILDING SECOND FLOOR FRAMING PLAN
S2.03	MAIN BUILDING THIRD FLOOR FRAMING PLAN
S2.04	MAIN BUILDING FOURTH FLOOR FRAMING PLAN
S2.05	MAIN BUILDING FIFTH FLOOR FRAMING PLAN
S2.06	MAIN BUILDING ROOF FRAMING PLAN
S3.00	GRADE BEAM DETAILS
S3.01	CONCRETE SLAB ON GRADE DETAILS
S3.02	TWO WAY PT DETAILS
S3.03	TWO WAY PT DETAILS
S3.04	CONCRETE COLUMN SCHEDULE
S3.05	CONCRETE WALL ELEVATIONS AND DETAILS
S4.00	WALL FRAMING DETAILS
S4.01	WALL FRAMING DETAILS
S4.02	HOLDDOWN DETAILS
S4.03	WALL ON SLAB FRAMING DETAILS
S4.04	WALL FRAMING DETAILS
S4.05	MASONRY VENEER DETAILS
S5.00	COLUMN AND GLULAM BEAM DETAILS
S6.00	FLOOR FRAMING DETAILS
S6.01	FLOOR FRAMING DETAILS
S6.02	FLOOR FRAMING DETAILS
S7.00	ROOF FRAMING DETAILS
S7.01	ROOF FRAMING DETAILS
Grand total: 32	

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Construction Permitting Only

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EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
PERMIT SET
5/11/18

REVISION 9
07/17/19

GENERAL NOTES

S1.00

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN **5-1/2 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	5000	0.40	100	57 OR 67	1
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	1
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4000	0.45	100	57 OR 67	1, 2, 4
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
ELEVATED PT BEAMS AND SLABS	3000 AT 3 DAYS 5000 AT 56 DAYS	0.40	100	57 OR 67	2,3
CLOSURE STRIPS	5000 @ 56 DAYS	0.40	100	57 OR 67	2,3,4
COLUMNS AND SHEAR WALLS	4000	0.50	--	7 OR 8	
TOPPING SLAB OVER I-JOISTS	3000	0.50	--	7 OR 8	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

CONCRETE MIX NOTES:

1. FIBROUS CONCRETE REINFORCEMENT SHALL BE "FIBERMESH" MANUFACTURED BY PROPEX CONCRETE SYSTEMS OR PRE-APPROVED EQUAL AND SHALL CONFORM TO ASTM C1116 TYPE III 4.1.3, PERFORMANCE LEVEL 1, AND SHALL BE 100 PERCENT VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT. DOSAGE SHALL FOLLOW MANUFACTURER'S RECOMMENDATION BUT NOT LESS THAN 1.5 LB/CU. YD.
2. MAXIMUM WATER CONTENT 240 PCY.
3. MAXIMUM WATER SOLUBLE CHLORIDE ION CONCENTRATION 0.06 PERCENT BY WEIGHT OF CEMENTITIOUS MATERIAL.
4. THIS MIX SHALL CONTAIN 1 GALLON PER CY OF 'ECLIPSE' SHRINKAGE REDUCING ADD MIXTURE BY W.R. GRACE OR APPROVED ALTERNATE. FOR CONCRETE REQUIRING AN AIR ENTRAINMENT ADMIXTURE, 'ECLIPSE PLUS' SHALL BE USED.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

FORMED SURFACES:

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

FORMWORK STRIPPING:

COLUMNS & WALLS: COLUMNS AND WALLS NOT SUPPORTING FRAMING WEIGHT MAY BE STRIPPED AS SOON AS FORMS CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

BEAMS & SLABS: BEAMS AND SLABS MAY BE STRIPPED AND BECOME SELF SUPPORTING AS SOON AS THEIR COMPRESSIVE STRENGTH REACHES 75% OF THE SPECIFIED DESIGN STRENGTH. RESHORING SHALL BE PROVIDED FOR ALL CONSTRUCTION LOADS THEREAFTER PER THE GENERAL CONTRACTOR.

COLD WEATHER PLACEMENT:

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F. 0° TO 30° F. BELOW 0° F.	60° 65° 70°	55° 60° 65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN O.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.

2. APPLICATION OF AN EVAPORATION RETARDER.

3. USE OF FOG SPRAY.

4. REDUCTION OF POUR SIZE.

5. PLACING CONCRETE AT NIGHT.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 6 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
2. WALLS AND COLUMNS: COORDINATE CONSTRUCTION JOINTS WITH ARCHITECTURAL REVEALS.
3. TOPPING OVER WOOD FRAMING: PROVIDE JOINTS AT 12' O.C. MAXIMUM.

EMBEDDED ITEMS

1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.
5. EMBEDDED CONDUIT IS NOT PERMITTED IN CONCRETE SLABS ON METAL DECK UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
6. EMBEDDED FLEXIBLE CONDUIT IS PERMITTED IN OTHER CAST IN PLACE CONCRETE SLABS WITH A THICKNESS GREATER OR EQUAL TO 5-1/2 INCHES. WHERE PERMITTED IT MAY BE PLACED ON TOP OF THE BOTTOM MAT OF REINFORCING. THE OUTSIDE DIAMETER OF THE CONDUIT SHALL NOT BE GREATER THAN 1-INCH. A MINIMUM OF 2-INCHES CLEAR SHALL BE PROVIDED BETWEEN CONDUIT AND PARALLEL REINFORCING. SPACE CONDUITS A MINIMUM OF 12-INCHES APART, WHERE THIS IS NOT POSSIBLE NOTIFY ENGINEER FOR ADDITIONAL REINFORCING REQUIREMENTS.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
SLABS EXPOSED TO EARTH OR WEATHER OR VEHICLE OR FORKLIFT TRAFFIC INCLUDING LOADING DOCKS	1, (3 OR 4 OR 5), 6
ALL OTHER SLABS	1, (3 OR 4 OR 5)
FORMED SURFACES EXCLUDING FOUNDATIONS	2
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
2. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
3. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
4. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
5. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
6. APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURER'S RECOMMENDATIONS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL

ASTM A706 GRADE 60 FOR ALL MOMENT FRAME HORIZONTAL BEAM BARS, MOMENT FRAME VERTICAL COLUMN BARS, VERTICAL SHEAR WALL BARS AND ALL COUPLING BEAM BARS (EXCEPT TIES). PER ACI 318, ASTM A615 GRADE 60 MAY BE SUBSTITUTED FOR THESE MEMBERS IF THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18 KSI, THE RATIO OF ACTUAL ULTIMATE TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25, AND IF THE ELONGATION OVER AN 8" GAGE LENGTH MEETS THE FOLLOWING:

BAR SIZE	MINIMUM ELONGATION
#3 - #6	≥ 14%
#7 - #11	≥ 12%

ASTM A706 GRADE 60 FOR ALL WELDED BARS.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP ONE FULL MESH ON SIDES AND ENDS BUT NOT LESS THAN 8 INCHES. WELDED WIRE REINFORCING SHALL BE SUPPORTED TO WITHSTAND CONCRETE PLACEMENT. PULLING OF MESH INTO PLACE AFTER PLACEMENT IS NOT ALLOWED.

EPOXY COATED BARS SHALL CONFORM TO ASTM A775. BARS SHOULD BE HANDLED CAREFULLY, AVOIDING DAMAGE TO THE COATING. IN THE EVENT THAT THE COATING INCURS MINOR CHIPS OR CRACKS, FIELD REPAIRS MAY BE DONE WITH A TWO PART EPOXY.

GALVANIZED BARS SHALL CONFORM TO ASTM A767. BARS SHOULD BE HANDLED CAREFULLY, AVOIDING DAMAGE TO THE COATING. IN THE EVENT THAT THE COATING INCURS MINOR DAMAGE, FIELD REPAIRS MAY BE DONE WITH A COLD APPLIED ZINC GALVANIZING PAINT HAVING A MINIMUM OF 65% ZINC DUST IN THE DRY FILM.

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REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)					
BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-5"
#8	6'-8"	5'-2"	5'-2"	3'-11"	1'-7"
#9	7'-6"	5'-10"	5'-10"	4'-6"	1'-9"

SPLICE TABLE NOTES:

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

FORM SAVERS: "LENTON" BY ERICO THREADED FORM SAVERS TYPE FS OR APPROVED EQUAL.

STUD RAILS: "STUD RAILS" BY DECON INC. FLAT SLAB SHEAR REINFORCING RAILS OR APPROVED EQUAL

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ---------- 3"
EXPOSED TO WEATHER OR EARTH ---------- 2"
TIES ON BEAMS AND COLUMNS ---------- 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"

CONCRETE INSERTS: THREADED DOWEL BAR SUBSTITUTIONS SHALL BE MANUFACTURED BY RICHMOND SCREW ANCHOR CO., INC., OR PRE-APPROVED EQUAL AND SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE CAPACITY OF THE BAR.

POST-TENSIONED CONCRETE

POST-TENSIONED CONCRETE WORK SHALL, IN ADDITION TO CAST-IN-PLACE CONCRETE REQUIREMENTS, CONFORM TO THE FOLLOWING POST-TENSIONING INSTITUTE STANDARDS AND SPECIFICATIONS AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND MAKE AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THESE STANDARDS:

PTI:
1. FIELD PROCEDURES MANUAL FOR UNBONDED SINGLE STRAND TENDONS.
2. SPECIFICATIONS FOR UNBONDED SINGLE STRAND TENDONS.
3. POST-TENSIONING MANUAL.

POST-TENSIONING MATERIAL

POST-TENSIONING TENDONS SHALL BE STRESS-RELIEVED, LOW RELAXATION STRAND AND SHALL CONFORM TO THE FOLLOWING:

SEVEN WIRE STRAND ASTM DESIGNATION	A416 1/2"
DIAMETER TENDON AREA	0.153 SQ. IN.
ULTIMATE STRENGTH (FPU)	270 KSI

SHEATHING: UNBONDED STRANDS SHALL BE ENCASED IN SHEATHING PER PTI SPECIFICATION SECTION 2.3 AND NOT BE LESS THAN 50 MILS IN THICKNESS. TEARS IN THE SHEATHING SHALL BE REPAIRED PRIOR TO CONCRETE PLACEMENT.

ENCAPSULATION: THE ENCAPSULATION REQUIREMENTS OF PTI SPECIFICATION SECTION 2.2.6.2 SHALL BE MET FOR ALL ANCHORAGES AND COUPLERS. WHERE GREASE TUBES ARE USED THE DEAD END ANCHORS SHALL BE GREASED IN THE SHOP AND STRESSING END ANCHORS SHALL BE GREASED IN THE FIELD. ALL SLEEVES AND CAPS SHALL BE TRANSLUCENT TO ALLOW FOR VISUAL INSPECTION OF GREASE REQUIREMENTS. SLEEVES SHALL BE COMPLETELY FILLED WITH GREASE AND VOID FREE.

SUBMITTALS

SHOP DRAWINGS: SUPPLIER SHALL SUBMIT SHOP DRAWINGS SHOWING TENDON LAYOUT, DEAD END, AND STRESSING END LOCATIONS, STRESSING SEQUENCE, AND TENDON SUPPORT LAYOUTS WITH DETAILS NECESSARY FOR INSTALLATION. SHOP DRAWINGS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE STRUCTURE WILL BE CONSTRUCTED.

CALCULATIONS: THE MINIMUM NUMBER OF TENDONS ARE SHOWN ON THE STRUCTURAL DRAWINGS. STRUCTURAL DESIGN IS BASED ON AN AVERAGE FINAL EFFECTIVE FORCE OF 26.8 KIPS PER TENDON UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. THE SUPPLIER SHALL PROVIDE CALCULATIONS INDICATING FINAL EFFECTIVE FORCE FOR ALL TENDON CONDITIONS. ADDITIONAL TENDONS WILL BE REQUIRED IF THE PROPOSED SYSTEM DOES NOT MEET THE FINAL EFFECTIVE FORCE REQUIREMENTS. CALCULATIONS SHALL BE SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE STRUCTURE WILL BE CONSTRUCTED.

MILL CERTIFICATES: SUBMIT MILL CERTS FOR EACH COIL OF STRAND USED. MILL CERTS SHALL INCLUDE: TYPE OF MATERIAL, HEAT NUMBER, DIAMETER, EFFECTIVE AREA, CHEMICAL ANALYSIS, YIELD STRESS AT 1% ELONGATION, TENSILE STRENGTH, ELONGATION AT FAILURE, AND MODULUS OF ELASTICITY.

PLACEMENT

TENDON PLACEMENT: CARE SHALL BE TAKEN THAT TENDONS ARE LOCATED AND HELD IN THEIR DESIGNED POSITIONS. TOLERANCES FOR LOCATION OF PRESTRESSING STEEL SHALL NOT BE MORE THAN ±1/4" VERTICALLY, EXCEPT AS NOTED OR APPROVED BY THE STRUCTURAL ENGINEER. ACCESS TO STRESSING ENDS SHALL BE MAINTAINED WHERE SHOWN. MANUFACTURED CHAIRS SHALL BE USED TO SUPPORT TENDONS. TENDONS SHALL BE SUPPORTED AT 4'-0" MAX.

ADJUSTMENTS: SLIGHT DEVIATIONS IN THE SPACING OF THE SLAB TENDONS WILL BE PERMITTED WHEN REQUIRED TO AVOID OPENINGS, INSERTS, AND DOWELS THAT ARE SPECIFICALLY LOCATED. WHERE LOCATIONS OF TENDONS INTERFERE WITH EACH OTHER, ONE TENDON MAY BE MOVED HORIZONTALLY IN ORDER TO AVOID THE INTERFERENCE.

ANCHORAGES: SHALL BE RECESSED 1-1/2" UNLESS NOTED OTHERWISE.

TENDON STRESSING

STRESSING: STRESSING SHALL NOT START UNTIL FIELD CURED CYLINDER TESTS INDICATE THE CONCRETE IN PLACE HAS REACHED THE SPECIFIED COMPRESSIVE STRENGTH (F'CI) = 3,000 PSI. FORCE AT JACKING END SHALL NOT EXCEED 33 KIPS. CONTINUOUS INSPECTION AND RECORDING OF ELONGATIONS IS REQUIRED DURING ALL STRESSING OPERATIONS. THE OBSERVED ELONGATIONS SHALL BE WITHIN (-) 7% OR (+) 7% OF THAT PREDICTED, EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT ELONGATION REPORT TO ENGINEER AND SUPPLIER FOR APPROVAL PRIOR TO CUTTING TENDONS.

STRESS SEQUENCE:
1. DISTRIBUTED SLAB TENDONS
2. BANDED OR BEAM TENDONS AND TEMPERATURE TENDONS
3. GIRDER TENDONS

CONTINUOUS INSPECTION AND RECORDING OF ELONGATIONS IS REQUIRED DURING ALL STRESSING OPERATIONS. THE OBSERVED ELONGATIONS SHALL BE WITHIN (-) 7% OR (+) 7% OF THAT PREDICTED BUT NOT LESS THAN 1/4 INCH, EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT ELONGATION REPORT TO ENGINEER AND SUPPLIER FOR APPROVAL PRIOR TO CUTTING TENDONS

CONTINUOUS INSPECTION AND RECORDING OF ELONGATIONS IS REQUIRED DURING ALL STRESSING OPERATIONS. THE OBSERVED ELONGATIONS SHALL BE WITHIN (-) 7% OR (+) 7% OF THAT PREDICTED BUT NOT LESS THAN 1/4 INCH, EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT ELONGATION REPORT TO ENGINEER AND SUPPLIER FOR APPROVAL PRIOR TO CUTTING TENDONS

CUTTING: TENDONS SHALL NOT BE CUT UNTIL THE CONTRACTOR HAS OBTAINED WRITTEN APPROVAL TO DO SO BY THE STRUCTURAL ENGINEER AND SUPPLIER. IMMEDIATELY AFTER CUTTING TENDON INSTALL TRANSLUCENT GREASE CAP TO ENSURE NO WATER IS ALLOWED TO COLLECT ON TENDON TAIL, ANCHOR, OR WEDGES.

MISCELLANEOUS PT ITEMS

GROUTING STRESSING POCKETS: STRESSING POCKETS SHALL BE GROUTED WITH NON-SHRINK, NON CORROSIVE, GROUT WITH MAXIMUM SOLUBLE CHLORIDE ION CONTENT OF 0.06% WITHIN 5 DAYS OF CUTTING AND CAPPING TENDONS. PROVIDE A BONDING AGENT PER THE MANUFACTURER'S RECOMMENDATIONS PRIOR TO GROUTING.

DRILLING IN PT CONCRETE: DRILLING INTO POST-TENSIONED CONCRETE IS NOT ALLOWED EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER. AT APPROVED LOCATIONS POWDER DRIVEN FASTENERS AND DRILLED ANCHORS SHALL NOT PENETRATE INTO POST-TENSIONED ELEMENT A DISTANCE GREATER THAN THE MINIMUM COVER OF THE TENDONS.

DE-SHORING: SLAB OR BEAMS MAY BE DE-SHORED WHEN ALL TENDONS HAVE BEEN STRESSED AND ELONGATIONS APPROVED, UNLESS SHORING IS REQUIRED TO CARRY FLOORS ABOVE.

MASONRY

MASONRY ASSEMBLIES: SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 21 OF THE IBC, AND SHALL BE TESTED PER SECTION 2105.1 OF THE IBC FOR COMPLIANCE WITH f'm. MINIMUM SPECIFIED COMPRESSIVE STRENGTH, f'm, SHALL BE 1900 PSI FOR CONCRETE MASONRY ASSEMBLIES AND 2500 PSI FOR HOLLOW CLAY MASONRY ASSEMBLIES.

MASONRY VENEER: SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 14, AND THE PROJECT SPECIFICATIONS.

MORTAR: SHALL BE TYPE S PER IBC. CONFORM TO ASTM C270. MINIMUM COMPRESSIVE STRENGTH = 1800 PSI.

GROUT: GROUT FOR POURING SHALL BE A FLUID CONSISTENCY. CONFORM TO ASTM C476 AND ACI 530. f'g= 2500 PSI MINIMUM AT 28 DAYS.

GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT AND BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12 INCHES SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION 15 TO 20 MINUTES AFTER PLACEMENT TO MINIMIZE VOIDS DUE TO WATER LOSS. GROUT POURS 12 INCHES OR LESS IN HEIGHT SHALL BE MECHANICALLY VIBRATED, OR PUDDLED. COVER AND KEEP DRY ALL MASONRY WORK DURING CONSTRUCTION AND PREVENT MOISTURE ABSORPTION INTO MASONRY UNTIL THE ROOFING IS COMPLETE.

ANCHORED VENEER (MASONRY AND STONE UNITS): ALL VENEER ANCHORAGE ATTACHMENTS SHALL CONFORM TO IBC SECTION 1405.6 AND ACI 530 SECTIONS 12.1 AND 12.2 FOR THE APPLICABLE SEISMIC DESIGN CATEGORY.

ANCHOR TIES AND JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS B-2 AND SHALL BE MANUFACTURED BY WIRE-BOND OR LOCK RITE OR PRE-APPROVED EQUAL. ANCHOR TIES SHALL BE SPACED 16"O.C. EACH WAY MAXIMUM, AND SHALL HAVE A LIP OR HOOK ON THE EXTENDED LEG THAT WILL ENGAGE OR ENCLOSE A HORIZONTAL JOINT REINFORCEMENT WIRE OF NO. 9 GAUGE OR EQUIVALENT. THE JOINT REINFORCEMENT SHALL BE CONTINUOUS WITH BUTT SPLICES BETWEEN TIES PERMITTED.

ANCHORAGE OF VENEER TO BACKING SHALL BE AS FOLLOWS:

BACKING	VENEER TIE	ATTACHMENT TO BACKING
WOOD STUDS	WIRE-BOND RJ-711 OR HOHMANN & BARNARD HB-213 S.I.S.	ZINC PLATED SCREWS BY MANUFACTURER
CONCRETE	WIRE-BOND RJ-711 OR HOHMANN & BARNARD HB-213 S.I.S.	1/4" HILTI KWIK-CON II + SCREW W/ 1-3/4" EMBEDMENT

ANCHOR VENEER WITH CAVITY WIDTH GREATER THAN 4-1/2": WHERE THE CAVITY WIDTH BETWEEN THE EXTERIOR FACE OF THE STRUCTURAL BACKING WALL AND THE INTERIOR FACE OF THE VENEER IS GREATER THAN 4-1/2", VENEER ANCHORAGE SYSTEMS SHALL BE DESIGNED PER THE REQUIREMENTS OF CURRENT CODE AND THE PROJECT SPECIFICATIONS. PROVIDE CALCULATIONS AND SHOP DRAWINGS INDICATING THE TYPE, SIZE, AND REQUIRED SPACING OF VENEER ANCHORS. CALCULATIONS AND SHOP DRAWINGS SHALL BE PRODUCED UNDER THE SUPERVISION OF AND SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PROJECT.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JUNE 22, 2010, THE AISC CODE OF STANDARD PRACTICE, APRIL 14, 2010 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JUNE 22, 2010.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

STEEL FABRICATORS

NON-AISC CERTIFIED STEEL FABRICATORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

STEEL ERECTORS

NON-AISC CERTIFIED STEEL ERECTORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE B (Fy = 46 KSI) ROUND - ASTM A500 GRADE B (Fy = 42 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED, ASTM F1554, GRADE 105 WHERE INDICATED.

WIDE FLANGE STRUCTURAL MEMBERS WHICH ARE ASTM A6 GROUP 3 SHAPES WITH FLANGE THICKNESS 1-1/2" THICK AND THICKER, AND ALL ASTM A6 GROUP 4 AND 5 SHAPES AND PLATE THAT IS 1-1/2" THICK OR THICKER SHALL HAVE A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBS @ 70 DEG F.

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

REINFORCING STEEL: WELD IN ACCORDANCE WITH "REINFORCING STEEL WELDING CODE" AWS D1.4. WELD ONLY WITH SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. IN NO CASE SHALL A WELD BE MADE WITHIN 6 BAR DIAMETERS OF A "COLD BEND".

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH CHARPY V-NOTCH RATINGS AS FOLLOWS:

WELDED CONNECTIONS INSPECTION:

1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.
2. ALL FULL PENETRATION WELDS TO MEMBERS WHICH FORM A PORTION OF THE LATERAL LOAD RESISTING FRAME SHALL BE CHECKED 100 PERCENT BY ULTRASONIC TESTING.
3. THE CONTRACTOR SHALL SUBMIT A WRITTEN WELDING PROCEDURE SPECIFICATION FOR SHOP AND FIELD WELDING OF ALL LATERAL LOAD RESISTING FRAME CONNECTIONS FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

GENERAL REQUIREMENTS

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RCSC SPECIFICATION.

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EPOXY GROUTED ANCHORS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

HEADED STUDS: SHALL BE "H4L HEADED CONCRETE ANCHORS" FOR STUDS 5/8" DIAMETER AND SMALLER AND "S3L SHEAR CONNECTORS" FOR STUDS 3/4" DIAMETER AND LARGER AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL HEADED STUDS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

DEFORMED BAR ANCHORS: SHALL BE "D2L DEFORMED BAR ANCHORS" AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL DEFORMED BAR ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS): ALL MEMBERS DESIGNATED AS AESS SHALL CONFORM TO SECTION 10, ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, OF THE AISC CODE OF STANDARD PRACTICE.

CARPENTRY:

NAILS: CONNECTION DESIGNS ARE BASED ON "COMMON WIRE" NAILS WITH THE FOLLOWING PROPERTIES:

PENNYWEIGHT	DIAMETER (INCHES)	LENGTH (INCHES)	TRACKER** EMBOSSED HEAD / COLOR
8d	0.131	2-1/2	3 / BLUE
10d	0.148	3	4 / WHITE
16d	0.162	3-1/2	6 / ORANGE
20d	0.192	4	-

FOR DIAPHRAGM OR SHEAR WALL NAILING THE FOLLOWING FASTENER TYPES MAY BE USED AT EQUIVALENT SPACING TO THAT SPECIFIED ON PLANS

FASTENER TYPE	DIAMETER (INCHES)	LENGTH (INCHES)	EQUIVALENT SPACING (INCHES)			TRACKER** EMBOSSED HEAD / COLOR
8d COMMON WIRE	0.131	2-1/2	6	4	3	3 / BLUE
8d "DIPPED GALV. BOX"	0.131	2-1/2	6	4	3	E3 / NONE
8d "SHINY BOX"	0.113	2-1/2	4-1/2	3	2-1/2	1 / BLUE
12 GA. STAPLES	0.1055	1-7/8*	6	5-1/2	4	-
14 GA. STAPLES	0.080	1-1/2*	6	4	3	-
15 GA STAPLES	0.072	1-1/2*	5	3	2-1/2	-
10d COMMON WIRE	0.148	3	6	4	3	4 / WHITE
10d "HOT DIPPED GALV. BOX"	0.148	3	6	4	3	F4 / NONE
10d "SHINY BOX"	0.128	3	4-1/2	3	2-1/4	3 / WHITE

*BASED ON 15/32" PLYWOOD OR OSB.
**REFERENCE TO EMBOSSED HEAD / COLOR CODED NAILS PER TRACKERS SYSTEM.

WOOD SHEATHING (STRUCTURAL): **SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY**. SHEATHING ON FLOOR AND WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS PERFORMANCE CATEGORY 3/4" OR THICKER. WOOD SHEATHING SHALL BE "STRUCTURAL I" CONFORMING TO PS1-09 AND/OR PS2-10. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY. SPAN RATING SHALL BE PROVIDED AS FOLLOWS: ROOF FRAMING AT 32"O.C. (48/24); ROOF FRAMING AT 24"O.C. (32/16); WALLS (32/16); FLOORS (48/24) ALL WOOD SHEATHED WALLS SHALL BE BLOCKED AT ALL PANEL EDGES UNLESS NOTED OTHERWISE.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR (DF) FOR SIMPLE SPANS AND 24F-V8 DF FOR CANTILEVERED SPANS (Fb=2400 PSI, Fv=265 PSI, E=1.8X10^6 PSI) AND DF COMBINATION 2 FOR COLUMNS.

TRUSSES SHALL HAVE A BALANCED LAY-UP FOR CHORDS AND COMBINATION 2 FOR WEBS.

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "POC" SHALL BE PORT ORFORD CEDAR COMBINATION 22F-V/POC1 (Fb=2200 PSI, Fv=265 PSI, E=1.8X10^6 PSI) AND POC COMBINATION 2 FOR COLUMNS.

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "AYC" SHALL BE ALASKAN YELLOW CEDAR COMBINATION 20F-V13 (Fb=2000 PSI, Fv=265 PSI, E=1.5X10^6 PSI) AND AYC COMBINATION 2 FOR COLUMNS.

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "PPT" SHALL BE PRESERVATIVE PRESSURE TREATED COMBINATION 24F-V5 SOUTHERN PINE (SP) (Fb=2400 PSI, Fv=300 PSI, E=1.7X10^6 PSI) AND SP COMBINATION 2 FOR COLUMNS.

ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED TO VIEW; INDUSTRIAL APPEARANCE WHERE NOT EXPOSED TO VIEW. ALL MEMBERS TO HAVE EXTERIOR GLUE AND HAVE AN APPROVED GRADE STAMP. CAMBER AS SHOWN ON STRUCTURAL DRAWINGS.

FRAMING LUMBER: STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)
1. 6x BEAMS AND HEADERS. "DOUG FIR-LARCH" NO. 1 (Fb=1350 PSI, Fv=170 PSI)
2. 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
3. 6x POSTS AND COLUMNS. "DOUG FIR-LARCH" NO. 1 (Fc=1000 PSI)
4. EXTERIOR STUDS, INTERIOR BEARING WALLS AND 4x COLUMNS. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc= 1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
5. INTERIOR NON-BEARING STUD WALLS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI. Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)
6. THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI), OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
7. UTILITY & STANDARD GRADES NOT PERMITTED.

STRUCTURAL COMPOSITE LUMBER (SCL): SHALL BE MANUFACTURED BY REDBUILT LLC., OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS CONFORMING TO A CURRENT EVALUATION REPORT.

MIINIMUM DESIGN VALUES:
1. 2x SCL: Fb = 1700 PSI, Fv = 285 PSI, E = 1300 KSI
2. 1-3/4" SCL: Fb = 2600 PSI, Fv = 285 PSI, E = 1800 KSI
3. 3-1/2" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
4. 5-1/4" SCL: Fb = 2900 PSI, Fv = 285 PSI, E = 2000 KSI
5. RIMBOARD: APA/EWS PERFORMANCE RATED RIM (PRR-401) 1-1/4" MINIMUM THICKNESS

MEMBERS HAVE BEEN DESIGNED TO SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

PRESERVATIVE TREATED WOOD REQUIREMENTS:

TREATMENTS OTHER THAN THOSE LISTED BELOW ARE NOT PERMITTED.

		APPLICATION	SPECIFIED MATERIAL	PRESERVATIVE TREATMENT (1)	CONNECTORS & FASTENERS (2)(3)
EXPOSURE	DRY	FOUNDATION SILL PLATES, TOP PLATES & LEDGERS ON CONCRETE OR MASONRY WALLS (4)	2x, 4x, 6x (FIR), OR GLULAM (SP)	SBX	GALV (G60)
				ACQ, CBA, CA	GALV (G185)
	WET	FRAMING, DECKING, POSTS & LEDGERS	2x, & 4x (FIR)	ACQ, CBA, CA	GALV (G185)
			2x, & 4x (CEDAR)	NONE	GALV (G90)
		BEAMS & COLUMNS	6x (FIR), OR GLULAM (SP)	ACQ, CBA, CA	GALV (G185)
			6x OR GLULAM (CEDAR)	NONE	GALV (G90)

1. CCA: CHROMATED COPPER ARSENATE NOT PERMITTED
   SBX: DOT SODIUM BORATE
   ACQ: ALKALINE COPPER QUAT
   CBA & CA: COPPER AZOLE
   FIR: DOUG-FIR OR HEM-FIR
   SP: SOUTHERN PINE
2. CONNECTORS: JOIST HANGERS, STRAPS, FRAMING CONNECTORS, COLUMN CAPS AND BASES, ETC. FASTENERS: MACHINE BOLTS, ANCHOR BOLTS AND LAG SCREWS WITH ASSOCIATED PLATE WASHERS AND NUTS. NAILS, SPIKES, WOOD SCREWS, ETC.
3. G60, G90 & G185 PER ASTM A653 FOR COLD-FORMED STEEL CONNECTORS. BATCH/POST HOT-DIP GALVANIZED PER ASTM A123 FOR CONNECTORS AND ASTM A153 STRUCTURAL STEEL CONNECTORS. HOT-DIP GALVANIZED PER ASTM A153 FOR FASTENERS OR MECHANICALLY GALVANIZED FASTENERS PER ASTM B695, CLASS 55 OR GREATER.
4. AT CONTRACTORS OPTION, LEDGERS AND TOP PLATES A MINIMUM OF 8 FEET ABOVE GRADE ON CONCRETE OR MASONRY WALLS MAY BE UN-TREATED IF COMPLETELY SEPARATED FROM THE WALL BY A SELF ADHERING ICE & WATER SHIELD BARRIER (40 MIL MINIMUM).

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x0.229" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10 AND 2308.7.4 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

WOOD SHRINKAGE AND CONSOLIDATION: SHRINKAGE OF WOOD MEMBERS AND CONSOLIDATION OF BEARING WALLS IS EXPECTED FROM TIME OF FRAMING UNTIL AFTER BUILDING IS PUT IN SERVICE. MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS SHALL BE CONSTRUCTED TO ACCOMODATE 1/4" OF TOTAL SETTLEMENT PER STORY.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

LAG SCREWS: SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. LAG SCREWS SHALL BE OF A DIAMETER INDICATED ON DRAWINGS WITH A MINIMUM OF 8x DIA. EMBEDMENT IN SUPPORTING MEMBER UNLESS NOTED OTHERWISE. CLEARANCE HOLE FOR THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE UNTHREADED PORTION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW. LAG SCREWS SHALL NOT BE DRIVEN WITH A HAMMER. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

METAL-PLATE-CONNECTED WOOD TRUSSES: SHALL BE MANUFACTURED BY AN APPROVED TRUSS MANUFACTURER IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. TRUSS CALCULATION PACKAGE SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A <STRUCTURAL/PROFESSIONAL> ENGINEER LICENSED IN THE STATE OF PROJECT PER IBC SECTION 2303.4 TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS AND DETAILS. THE TRUSS ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS PLACEMENT PLANS AND TRUSS DESIGN DRAWINGS. ALL ROOF TRUSSES ARE TO BE PRE-ENGINEERED. ROOF TRUSSES SHALL BE PROVIDED TO COMPLETE THE ROOF FRAMING FROM THE ROOF SHEATHING TO THE SUPPORTING MEMBERS BELOW. TRUSSES DESIGNATED ON PLANS ARE FOR TYPICAL UNIFORMLY LOADED CONDITIONS. TRUSS ENGINEER SHALL PROVIDE ADDITIONAL TRUSSES AS REQUIRED TO SUPPORT SPECIAL LOADING CONDITIONS INDICATED ON DRAWINGS. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BEARING THE STAMP OF A <STRUCTURAL/PROFESSIONAL> ENGINEER REGISTERED IN THE STATE OF PROJECT. DETAIL DRAWINGS TO INDICATE ALL INFORMATION AS REQUIRED IN IBC SECTION 2303.4.1. ALONG WITH THE FOLLOWING:

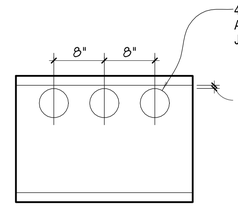
*KEY PLAN SHOWING EACH TRUSS
*INDIVIDUAL TRUSS DESIGNS
*PERMANENT BRACING REQUIREMENTS INCLUDING PLACEMENT AND CONNECTIONS DETAILS
*TRUSS DRAWINGS SHALL SPECIFY ALL TRUSS CONNECTIONS/HARDWARE TO MEET THE REQUIREMENTS OF THE PLAN.

TRUSS DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONALE FOR LOADING DISTRIBUTION ON MULTIPLE MEMBERS. SUBMITTAL SHALL ALSO PROVIDE ANY DOCUMENTATION NECESSARY TO INTERPRET DATA INDICATED ON CALCULATIONS.

REFER TO THE FRAMING CONNECTORS SECTION OF THESE GENERAL NOTES FOR REQUIREMENTS PLACED UPON CONNECTOR HARDWARE SPECIFIED BY TRUSS ENGINEER AND/OR PROVIDED BY TRUSS MANUFACTURER.

PROVIDE CERTIFICATE OF CONFORMANCE FROM AN INDEPENDENT TESTING LABORATORY OR A LICENSED PROFESSIONAL ENGINEER CERTIFYING THAT THEY HAVE INSPECTED THE FINISHED TRUSSES AND THAT ALL TRUSSES ARE CONSTRUCTED IN CONFORMANCE WITH THE TRUSS DESIGN DRAWINGS.

I-JOISTS: SHALL BE MANUFACTURED BY REDBUILT LLC, OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. MEMBERS SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT. THE ENTIRE OPEN-WEB TRUSS/I-JOIST ASSEMBLY SHALL BE AS APPROVED BY CURRENT EVALUATION REPORT. MEMBERS SHALL BE DESIGNED TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS AND DETAILS. THE TRUSS ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS PLACEMENT PLANS AND TRUSS DESIGN DRAWINGS. TRUSSES/I-JOISTS SHALL BE PROVIDED TO COMPLETE THE ROOF AND/OR FLOOR FRAMING FROM THE SHEATHING TO THE SUPPORTING MEMBERS BELOW. MEMBER DESIGNATIONS ON PLANS ARE FOR TYPICAL UNIFORMLY LOADED CONDITIONS. MANUFACTURER SHALL PROVIDE ADDITIONAL MEMBERS AS REQUIRED TO SUPPORT SPECIAL LOADING CONDITIONS INDICATED ON DRAWINGS. TOP CHORD AT STRAP CONNECTIONS TO CONCRETE OR MASONRY WALLS SHALL BE COMPOSED OF A STRUCTURAL COMPOSITE LUMBER MEMBER APPROVED BY A CURRENT EVALUATION REPORT FOR SUCH A USE OR AT CONTRACTORS OPTION, STRAP NAIL HOLES SHALL BE PRE-DRILLED IN CHORD. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BEARING THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PROJECT. DETAIL DRAWINGS TO INDICATE MEMBER TYPES, SIZE, SPACING, BRIDGING, BLOCKING, CONNECTIONS, ANCHORING, BEARING PLATE AND OTHER PERTINENT DETAILS. PROVIDE 1 1/2" DIA. OPEN KNOCKOUTS AT 12" O.C. ON ALL ROOF I-JOISTS.



TYPICAL I-JOIST VENTED BLOCKING
NO SCALE

MEMBER DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONALE FOR LOADING DISTRIBUTION ON MULTIPLE MEMBERS. SUBMITTAL SHALL ALSO PROVIDE ANY DOCUMENTATION NECESSARY TO INTERPRET DATA INDICATED ON CALCULATIONS.

MEMBERS HAVE BEEN DESIGNED TO MEET SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

REFER TO THE FRAMING CONNECTORS SECTION OF THESE GENERAL NOTES FOR REQUIREMENTS PLACED UPON CONNECTOR HARDWARE SPECIFIED BY TRUSS ENGINEER AND/OR PROVIDED BY TRUSS MANUFACTURER.

SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA 13 AND COMMERCIAL PUBLICATION "SPRINKLER SYSTEM INSTALLATION WITH GUIDELINES FOR REDBUILT OPEN-WEB TRUSSES AND I-JOISTS". LOADS HUNG FROM JOIST NOT SPECIFICALLY IDENTIFIED ON STRUCTURAL DRAWINGS SHALL NOT EXCEED 30 POUNDS AT ANY ONE POINT, NOR SHALL TOTAL LOADS IN POUNDS ON ANY ONE JOIST EXCEED 8 TIMES THE JOIST SPAN IN FEET, UNLESS DETAILED OTHERWISE ON THE DRAWINGS. ATTACHMENT OF LOADS EXCEEDING 90 POUNDS SHALL BE APPROVED PRIOR TO INSTALLATION. DO NOT NOTCH OR DRILL THRU TRUSS MEMBERS.

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EAST BAY LOT A WESTMAN MILL

510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
PERMIT SET
5/11/18

REVISION 9
07/17/19

GENERAL NOTES

S1.03

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MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

		STRUCTURAL ENGR.	BLDG. DEPT.
1.	CONCRETE MIX DESIGNS	X	X
2.	REINFORCING STEEL SHOP DRAWINGS	X	
3.	VENEER ANCHORAGE SYSTEMS	X	X
4.	STRUCTURAL STEEL	X	X
5.	MISCELLANEOUS STEEL	X	X
6.	GLU-LAMINATED MEMBERS	X	X
7.	STRUCTURAL COMPOSITE LUMBER	X	X
8.	METAL-PLATE-CONNECTED WOOD TRUSSES	X	X
9.	CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

DEFERRED SUBMITTALS

THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BEAR THE SEAL OF AN ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED.

		ENGINEER STAMP REQUIRED
1.	I-JOISTS	PE
2.	METAL-PLATE-CONNECTED WOOD TRUSSES	PE
3.	POST TENSIONING SYSTEM	PE
4.	CONTINUOUS HOLD-DOWN SYSTEMS	PE

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
DRIVEN-PILE FOUNDATIONS	VERIFY PILE MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS	X			IBC 1705.7
	DETERMINE CAPACITIES OF TEST PILES AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED	X			
	INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PILE	X			
	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT	X			
	STEEL PILE INSPECTION			SEE STEEL CONSTRUCTION SPECIAL INSPECTION REQUIREMENTS	IBC 1705.2
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. PLUG AND SLOT WELDS C. SINGLE-PASS FILLET WELDS ≤ 5/16"	X X	X	SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X		
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	INSPECTION OF WELDING REINFORCING STEEL: 1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 2. REINFORCING STEEL IN MOMENT FRAMES AND BOUNDARY ELEMENTS 3. SHEAR REINFORCEMENT 4. OTHER REINFORCING STEEL	 X X X	X		AWS D1.3 AWS D1.4 ACI 318 SECTION 26.6.4
CONCRETE	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS: NON-STRUCTURAL SLAB ON GRADE CONCRETE FOUNDATION WALLS WITH F'c ≤ 2500 PSI ISOLATED SPREAD FOOTINGS FOR BUILDINGS THREE-STORIES AND LESS ABOVE GRADE PLANE CONTINUOUS FOOTINGS SUPPORTING WALLS OF THREE-STORIES AND LESS ABOVE GRADE PLANE WHERE WALLS ARE LIGHT-FRAME CONSTRUCTION AND STRUCTURAL DESIGN IS BASED ON F'c ≤ 2500 PSI	ACI 318: 17.8.2 AISC 360 SECTION N7
	VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318, CH 19
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING		X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1
	TESTING OF MATERIALS		X		IBC 1705.3.2
WOOD FRAMING	SHEAR WALL NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5
	DIAPHRAGM NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5
	NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM		X		IBC 1705.11.1, 1705.12.2
ANCHORED VENEER	INSPECTION PROGRAM SHALL VERIFY: 1. SIZE, TYPE OF VENEER ANCHORS 2. SIZE, GRADE OF JOINT REINF. 3. PROPORTIONS OF MORTAR 4. CONSTRUCTION OF MORTAR JOINTS 5. INSTALLATION OF TIES		X X X X X	VERIFICATION AT BEGINNING OF CONSTRUCTION	IBC 1705.12.5, 1705.4 TMS 402 / ACI 530 / ASCE 5

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

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EAST BAY LOT A
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GENERAL NOTES

S1.04

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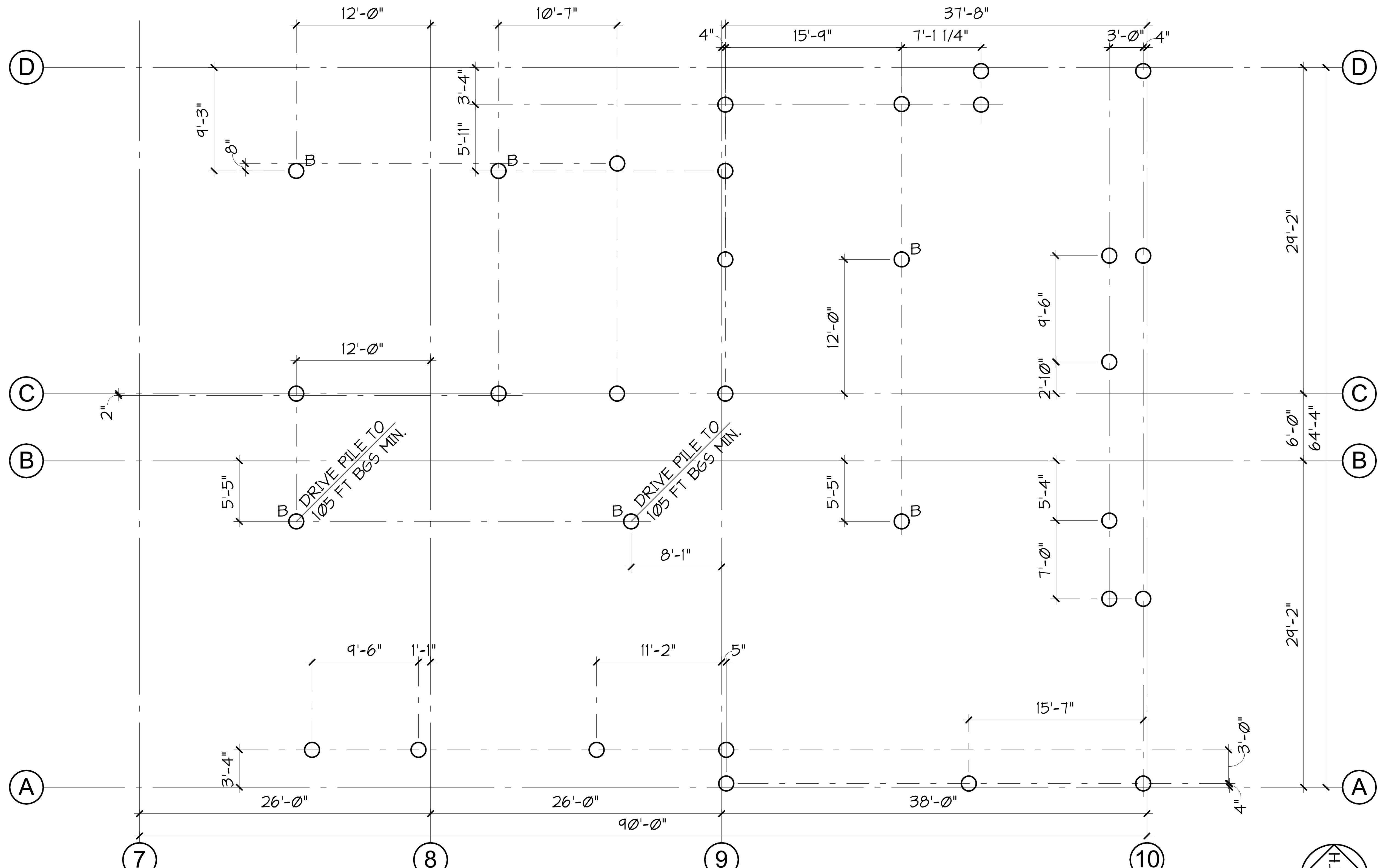
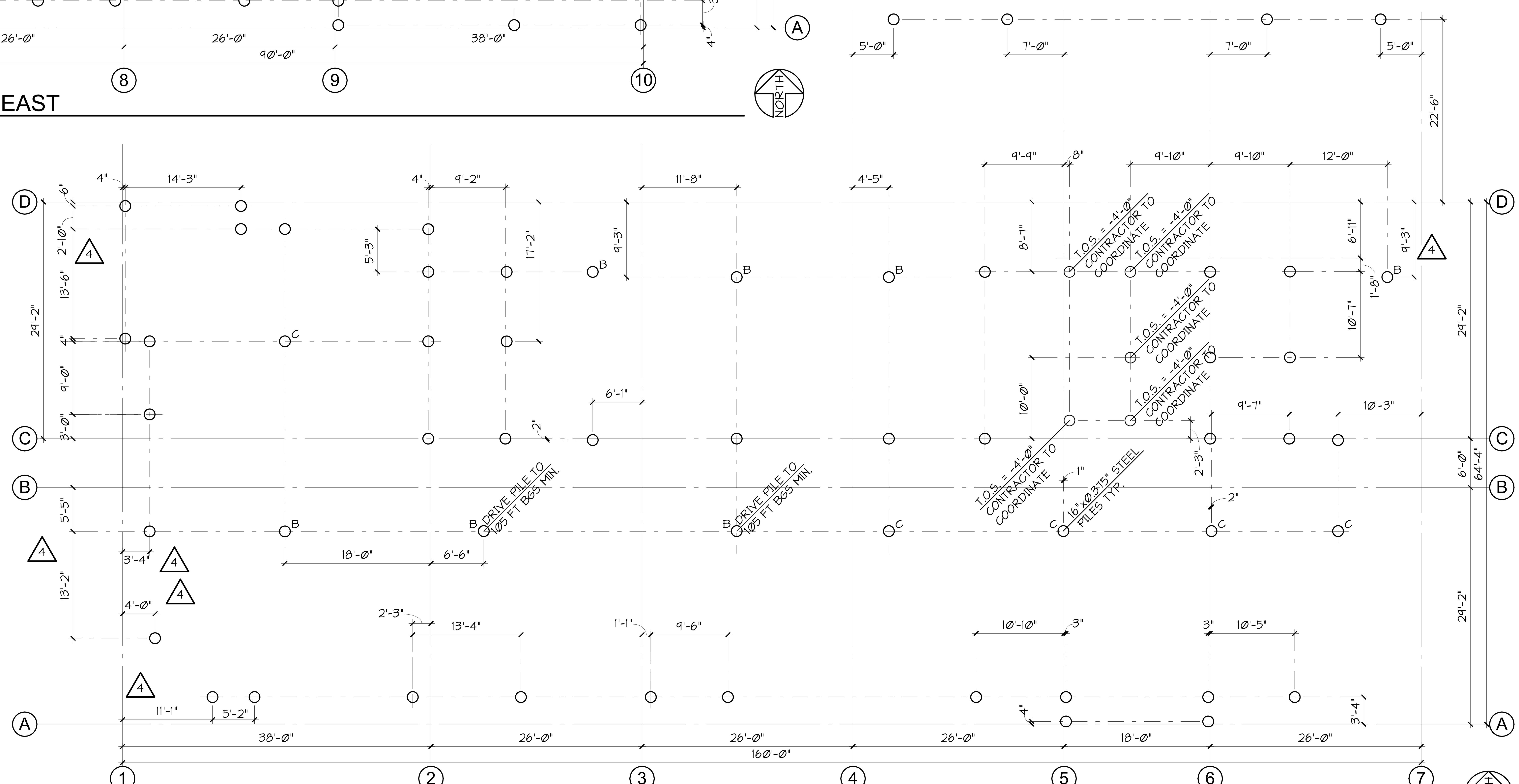


1 PILE PLAN - EAST
S2.00 1/8" = 1'-0"



2 PILE PLAN - WEST
S2.00 1/8" = 1'-0"

PILE PLAN NOTES

1. ○ INDICATES 16" DIAMETER x 0.375" OPEN-ENDED STEEL PILES DRIVEN APPROXIMATELY 95-115 FEET DEEP UNLESS NOTED OTHERWISE ON PLAN. SEE GENERAL NOTES AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

2. FOR SITE PLAN & PILE LOCATIONS & DIMENSIONS SEE A0.10.

PILE SCHEDULE[6]

PILE ID	MAX. ASD LOAD[2]	MINIMUM PROOF RESISTANCE[3]					REQ'D PILE WALL THICKNESS[4]	MIN. TIP DEPTH	ESTIMATED TIP DEPTH
		WEAP		PDA		WSDOT DRIVING FORMULA			
		EOD	BOR	EOD	BOR	EOD			
A	350	490	637	415	539	700	0.375	95	>115
B	290	406	528	344	447	580	0.375	95	95-115
C	200	280	364	237	308	400	0.375	95	95-115
D	100	140	182	118	154	200	0.375	95	95-115

NOTES:
1. ALL LOADS IN KIPS, DEPTHS IN FEET, PILE WALL THICKNESS IN INCHES.
2. DL+LL ASSUMED TO BE CONTROLING LOAD COMBINATIONS.
3. ASSUMES A SETUP FACTOR OF 1.3 FOR EOD PROOF RESISTANCE.
4. TO LIMIT DRIVING STRESSES TO 90% OF YIELD STRESS (MIN. fy = 52 KSI) DURING EOD. ASSUMES WEAP AND NO PDA AND NO DELMAG D30 HAMMER OR EQUIVALENT.
5. ALL PILES ARE D UNLESS NOTED OTHERWISE.
6. SCHEDULE AND DRIVING CRITERIA PER LANDAU ASSOCIATE'S RESPONSE LETTER DATED MAY 22, 2018.

ASD = ALLOWABLE STRESS DESIGN
BOR = BEGINNING OF RESTRIKE
EOD = END OF DRIVING
PDA = PILE DRIVING ANALYSIS
WEAP = WAVE EQUATION ANALYSIS OF PILES

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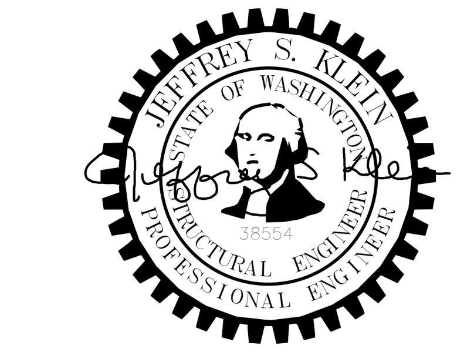

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MAIN BUILDING PILE PLAN

S2.00

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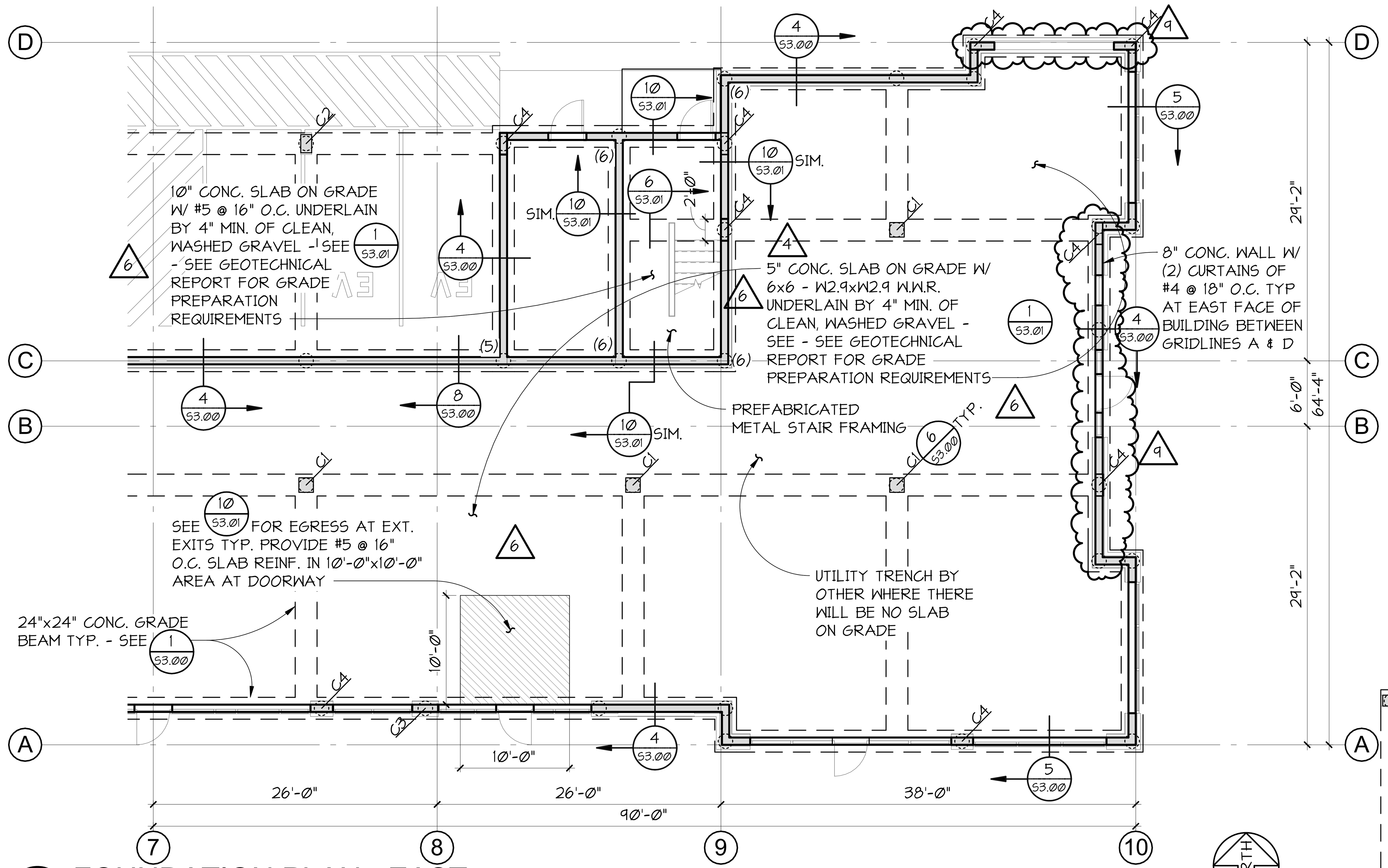
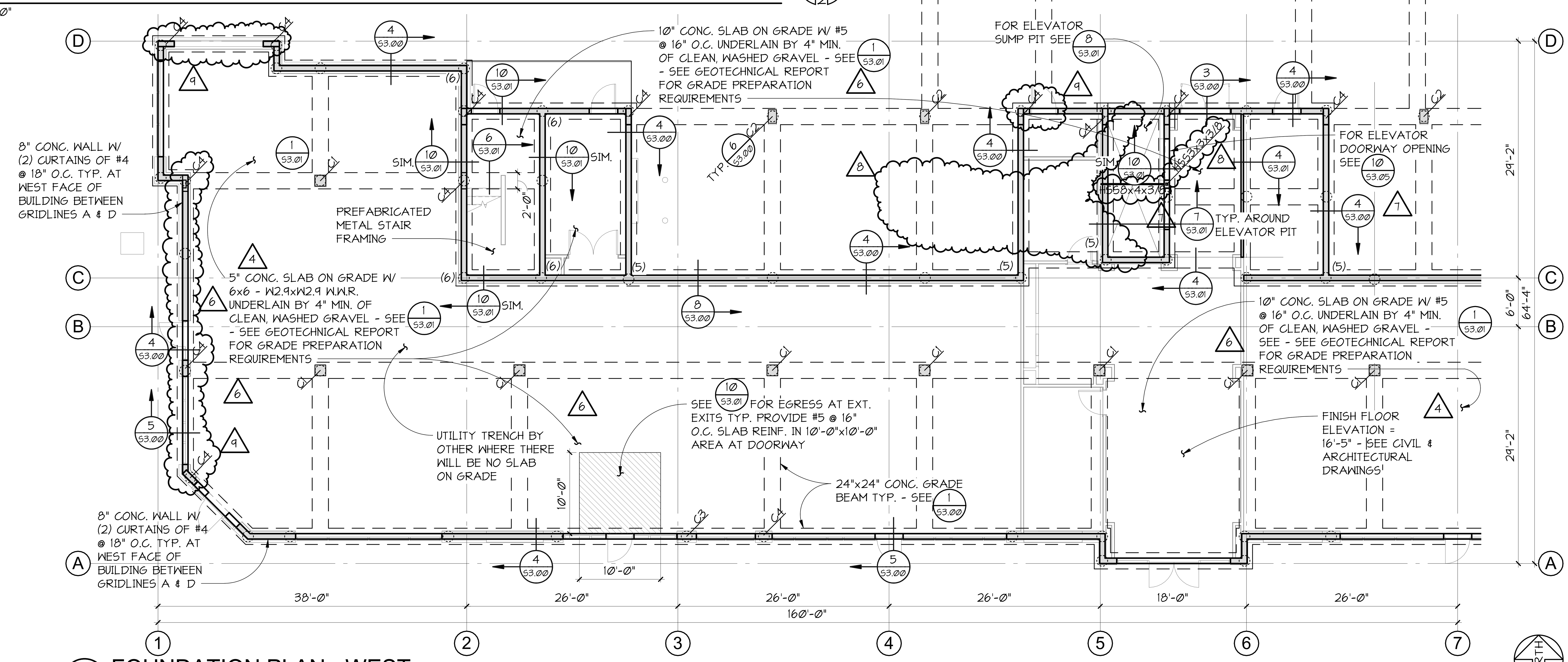


1 FOUNDATION PLAN - EAST
S2.01
1/8" = 1'-0"



2 FOUNDATION PLAN - WEST
S2.01
1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. INDICATES 8" THICK CONCRETE WALL WITH #5 AT 12" ON CENTER EACH WAY UNLESS NOTED OTHERWISE ON PLANS.
2. INDICATES 24"x24" CONCRETE GRADE BEAM. SEE S3.00 FOR DETAILS
3. (#) INDICATES THE NUMBER OF VERTICAL REINFORCING BARS AT THE END OF A CONCRETE SHEAR WALL. PROVIDE (2) AT 3" ON CENTER TYPICAL AND PROVIDE ADDITIONAL PER PLAN. BARS TO BE SAME SIZE AS TYPICAL WALL REINFORCING.
4. PROVIDE 180° HORIZONTAL SEISMIC HOOKS AROUND CONCRETE SHEAR WALL END REINFORCEMENT DESCRIBED IN NOTE #3. MATCH TYPICAL WALL REINFORCING AND PROVIDE ℓd PER THE GENERAL NOTES.
5. INDICATES 16" DIAMETER STEEL PILE PER PILE PLAN S2.00.
6. CX INDICATES CONCRETE COLUMN. FOR REINFORCING SEE 1/S3.04.
7. FOR SLAB ON GRADE DETAILS SEE S3.01.
8. PROVIDE #5 ℓd ℓd CORNER BARS AT 12" ON CENTER AT ALL CONCRETE WALL INTERSECTIONS. AT "T" INTERSECTIONS ALTERNATE CORNER BAR DIRECTION INTO ADJACENT WALL.
9. FOR TYPICAL OPENING IN CONCRETE WALL GREATER THAN 1'-0" IN EITHER DIRECTION SEE 7/S3.05.
10. FOR TYPICAL OPENING IN CONCRETE WALL INCLUDING DOORWAYS SEE 8/S3.05.
11. SEE ARCHITECTURAL DRAWING FOR VAPOR BARRIER INFORMATION.

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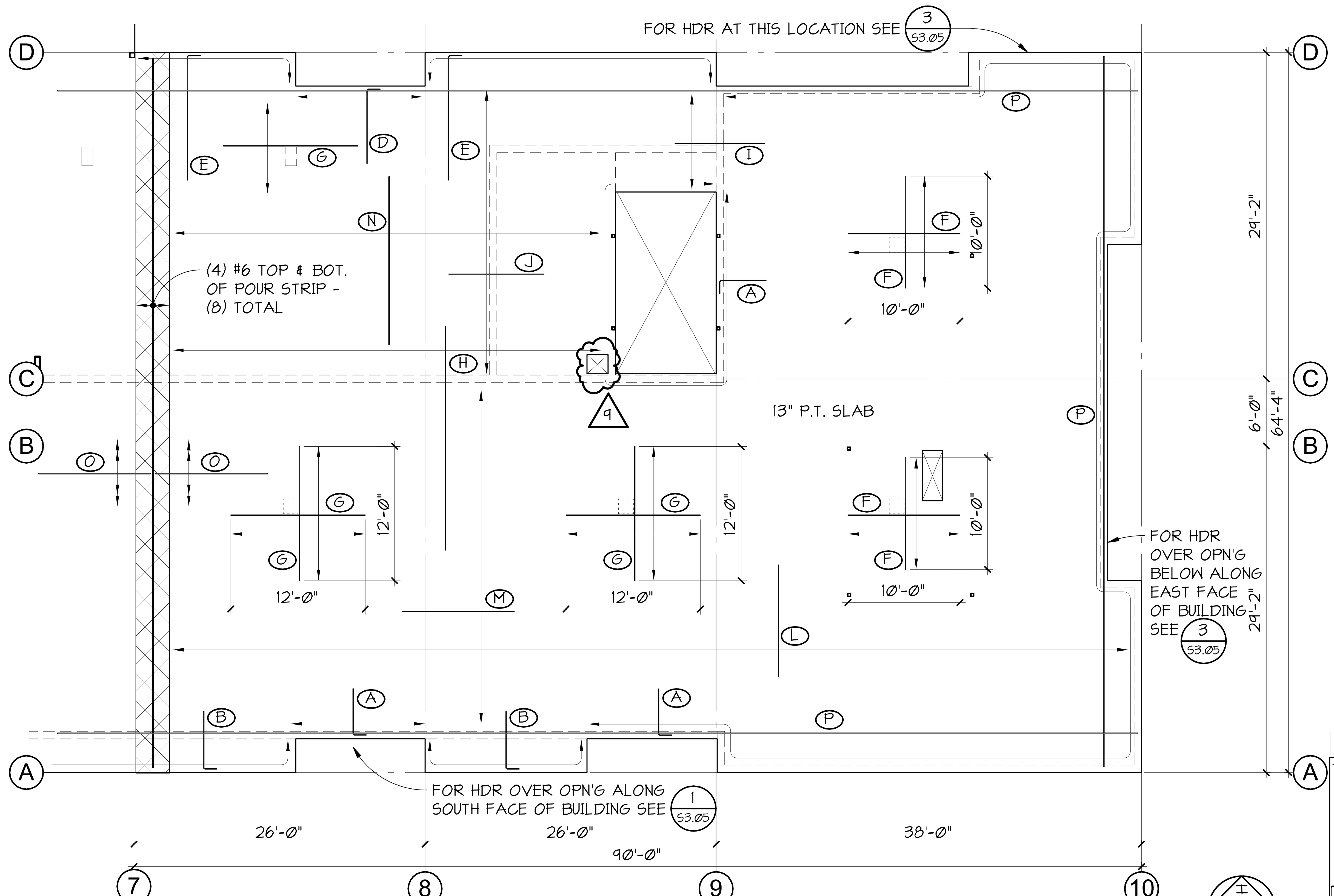
MAIN BUILDING FOUNDATION PLAN

S2.01



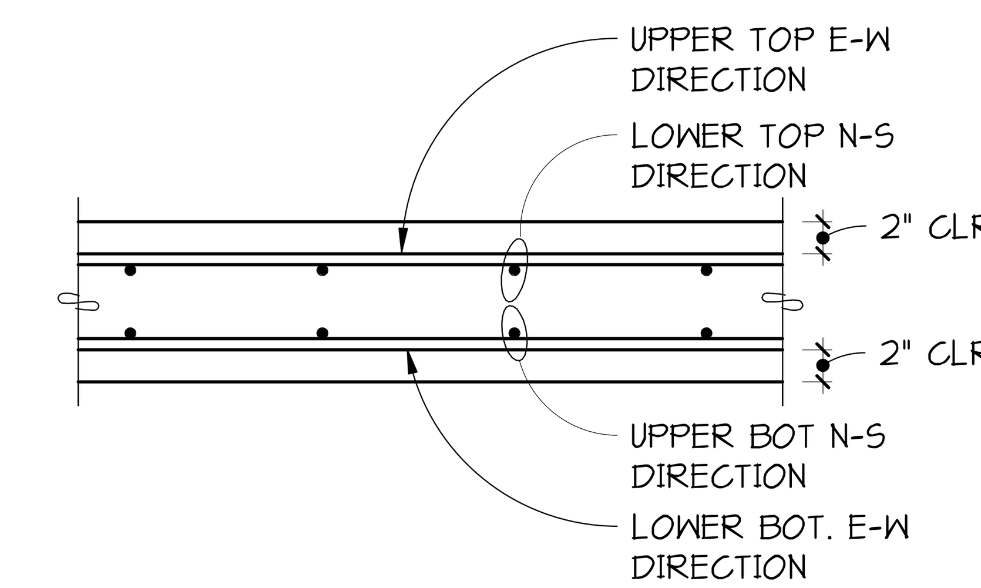
2/S2.02A SECOND FLOOR SLAB REINFORCEMENT PLAN - EAST

1/8" = 1'-0"

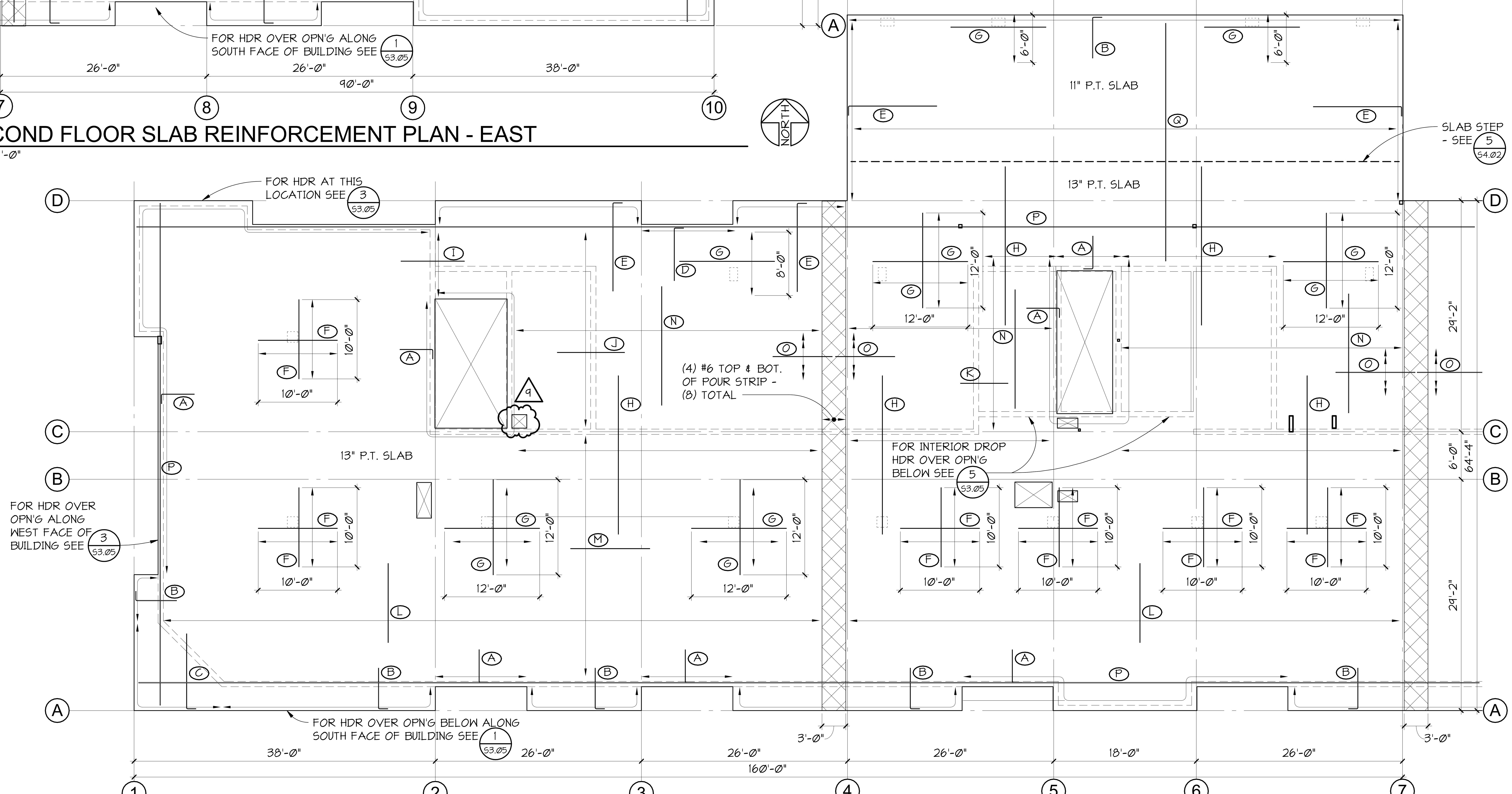
SLAB REINFORCING SCHEDULE		
MARK	CALLOUT	REMARKS
A	#5x 4'-2" @ 16" O.C. TOP	PERIMETER & OPENINGS
B	#5x 5'-2" @ 16" O.C. TOP	PERIMETER WITH OVERHANG
C	#6x OVERHANG +3'-1" @ 12" O.C. TOP	INTERACTION AT INTERSECTION OF GRIDLINE 1 & A
D	#5x 6'-8" @ 16" O.C. TOP	(2) LOCATIONS NEAR GRIDLINE D
E	#5x 11'-2" @ 16" O.C. TOP	(4) LOCATIONS ALONG GRIDLINE D
F	#5x10'-0" @ 6" O.C. TOP	CTR OVER COL. BELOW
G	#5x12'-0" @ 6" O.C. TOP	CTR OVER COL. BELOW
H	#5x20'-0" @ 16" O.C. TOP	PER PLAN
I	#5x8'-0" @ 14" O.C. TOP	CTR OVER WALL BELOW
J	#5x8'-6" @ 14" O.C. TOP	CTR OVER WALL BELOW
K	#5x6'-0" @ 14" O.C. TOP	CTR OVER WALL BELOW
L	#5x10'-0" @ 16" O.C. BOTTOM	CTR BETWEEN SUPPORTS
M	#5x10'-0" @ 24" O.C. BOTTOM	CTR BETWEEN SUPPORTS
N	#5x15'-0" @ 16" O.C. BOTTOM	CTR BETWEEN SUPPORTS
O	#6x10'-0" @ 9" O.C. TOP & BOTTOM	TYP. AT POUR STRIP
P	(2) #7 AT MID HEIGHT	CHORD REINFORCING
Q	#6x30'-0" @ 16" O.C. BOTTOM	CTR BETWEEN SUPPORTS

SLAB REINFORCING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. FOR STUD RAIL REINFORCEMENT AT TOP OF COLUMNS, SEE 2/S3.04.
3. [pour strip symbol] INDICATES POUR STRIP. CAST NO EARLIER THAN 56 DAYS AFTER FINAL DECK ASSOCIATED WITH FLAT DECK.
4. FOR TYPICAL TOP-OF-WALL CONNECTION TO CONCRETE SLAB SEE 9/S3.04.
5. [opening symbol] INDICATES OPENING IN SLAB. SEE 6/S3.02 FOR ADDITIONAL REINFORCING REQUIREMENTS.



TYPICAL SLAB REBAR PLACEMENT DETAIL



1/S2.02A SECOND FLOOR SLAB REINFORCEMENT PLAN - WEST

1/8" = 1'-0"

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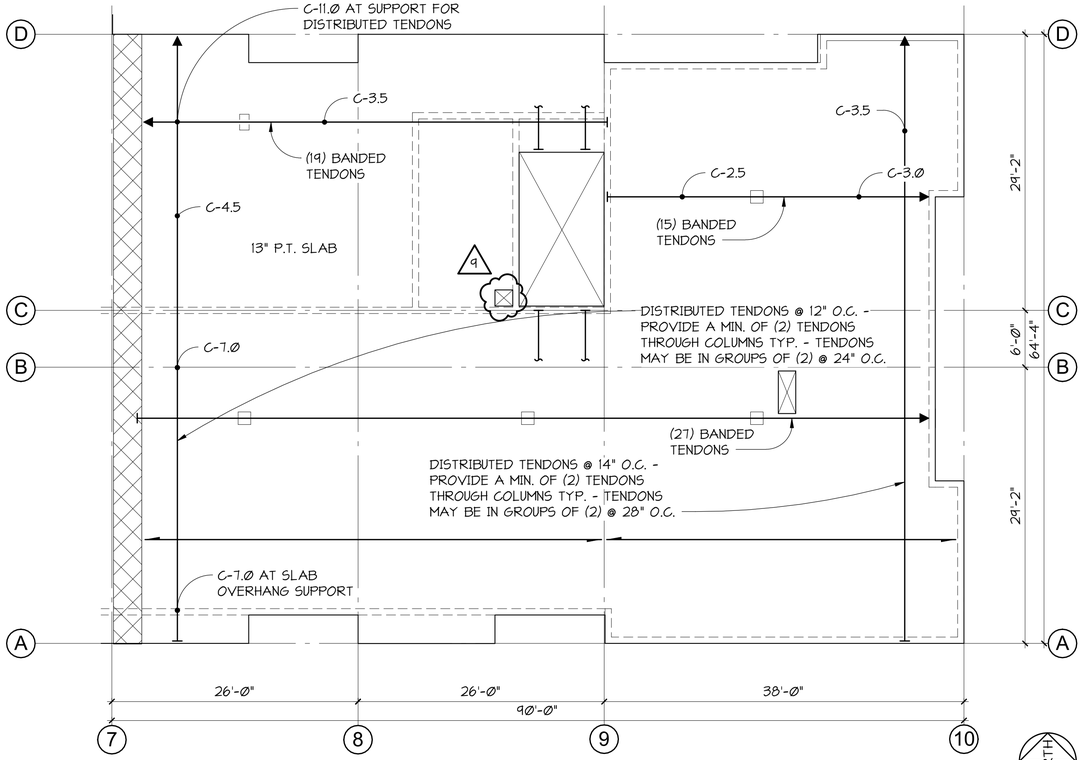
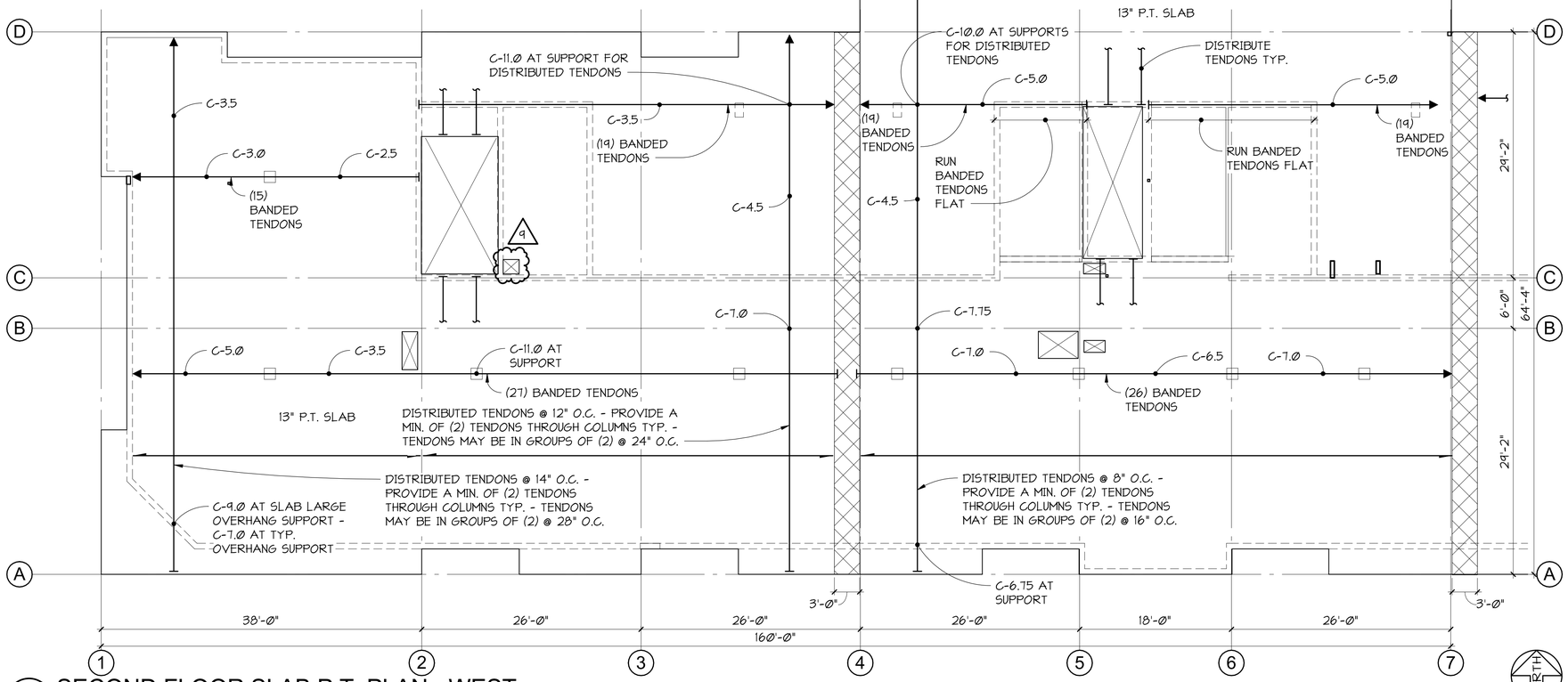
~~MAIN BUILDING~~ SECOND FLOOR SLAB REINFORCEMENT PLAN

S2.02A



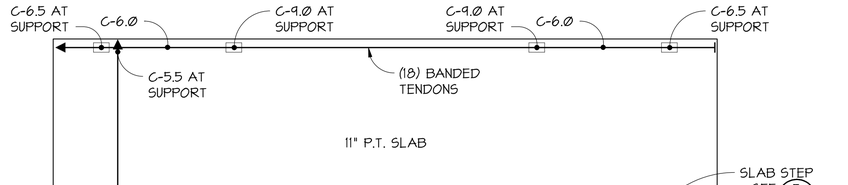
1 S2.02B SECOND FLOOR SLAB P.T. PLAN - EAST

1/8" = 1'-Ø"



2 S2.02B SECOND FLOOR SLAB P.T. PLAN - WEST

1/8" = 1'-Ø"



POST TENSIONING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. INDICATES C.G.S. OF POST TENSIONING TENDONS AT CONTROL POINT MEASURED FROM SLAB SOFFIT TYPICAL. SEE DETAIL 1/S3.02 FOR TYPICAL LAYOUT OF CONTROL POINTS.
3. "C-_" TYPICAL SLAB POST-TENSIONING PROFILES.

13" PT SLAB	11" PT SLAB
= 2.00" AT SLAB MID-SPAN U.N.O.	= 2.00" AT SLAB MID-SPAN U.N.O.
= 8.75" CENTERED OVER SUPPORTS U.N.O.	= 5.50" AT ANCHOR U.N.O.
= 6.50" AT ANCHOR U.N.O.	

4. INDICATES POUR STRIP. CAST NO EARLIER THAN 56 DAYS AFTER FINAL DECK ASSOCIATED WITH FLAT DECK.

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MAIN BUILDING SECOND FLOOR SLAB P.T. PLAN

S2.02B

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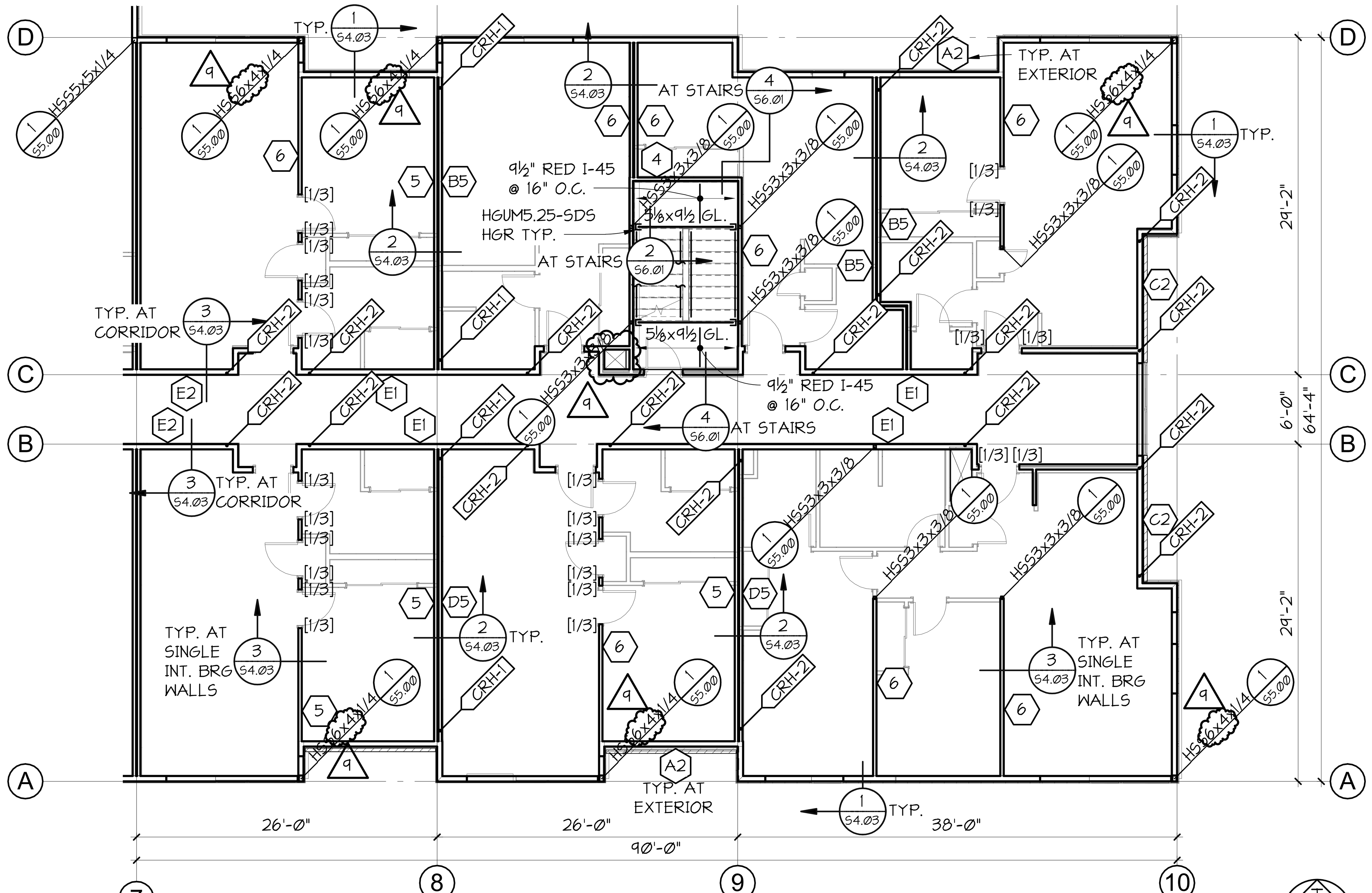
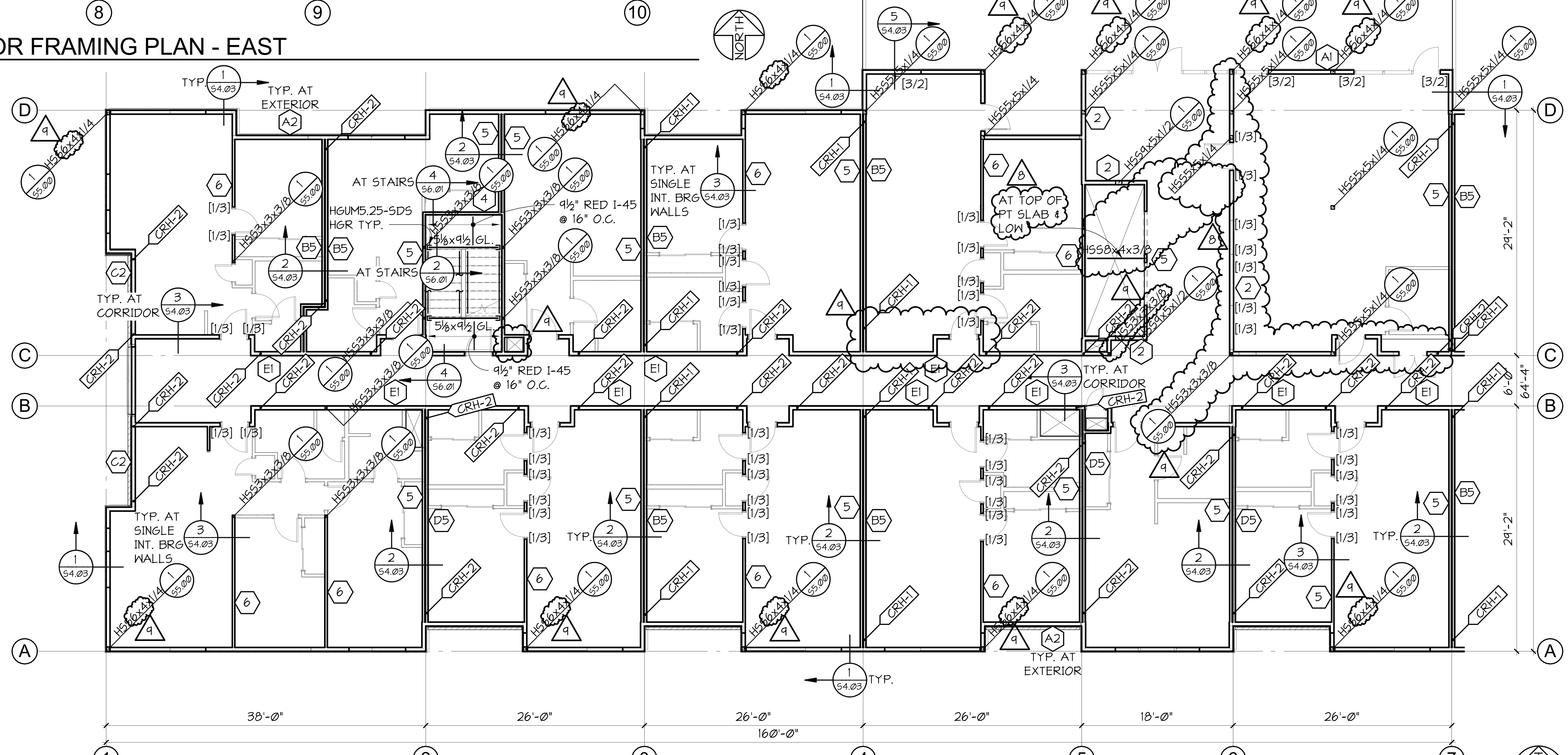
FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" A.F.F. UNLESS NOTED OTHERWISE.
2. INDICATES WOOD STUD WALL. WOOD STUDS SHOULD ALIGN WITH TRUSS LAYOUT AND BE SPACED @ 16" O.C. MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 1/2" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 10d @ 6" O.C. AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 10d @ 12" O.C. AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE. SEE NOTE 9 FOR ADDITIONAL SHEAR WALL NAILING.
3. INDICATES MASONRY VENEER. FOR ATTACHMENT OF VENEER TO BACKING SEE GENERAL NOTES. FOR VENEER LINTEL ANGLES AT OPENINGS SEE 1/S4.05. FOR CONTROL JOINT SEE 2/S4.05.
4. INDICATES WALL EXTENDING TO FLOOR STRUCTURE.
5. INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/S4.00.
6. HSS_ INDICATES HOLLOW STRUCTURAL SECTION COLUMNS ORIGINATING AT FLOOR LEVEL.
7. B.U. COL. INDICATES WOOD STUD BUILT-UP COLUMN. SEE 2/S4.00 FOR TYPICAL DETAIL.
8. [X/Y] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE 1/S4.00 FOR TYPICAL DETAIL.
9. XX INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 4/S4.00 FOR SCHEDULE.
10. CRH-X INDICATES CONTINUOUS ROD HOLDOWN. SEE S4.02 FOR SCHEDULES.
11. INDICATES DEPRESSED OR SLOPED SLABS. FOR SLOPE AND EXACT LOCATION SEE ARCHITECTURAL DRAWINGS.
12. INDICATES PENETRATION IN FLOOR STRUCTURE.
13. NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE S4.04.



1 S2.02C SECOND FLOOR FRAMING PLAN - EAST
1/8" = 1'-0"



2 S2.02C SECOND FLOOR FRAMING PLAN - WEST
1/8" = 1'-0"

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MAIN BUILDING SECOND FLOOR FRAMING PLAN

S2.02C

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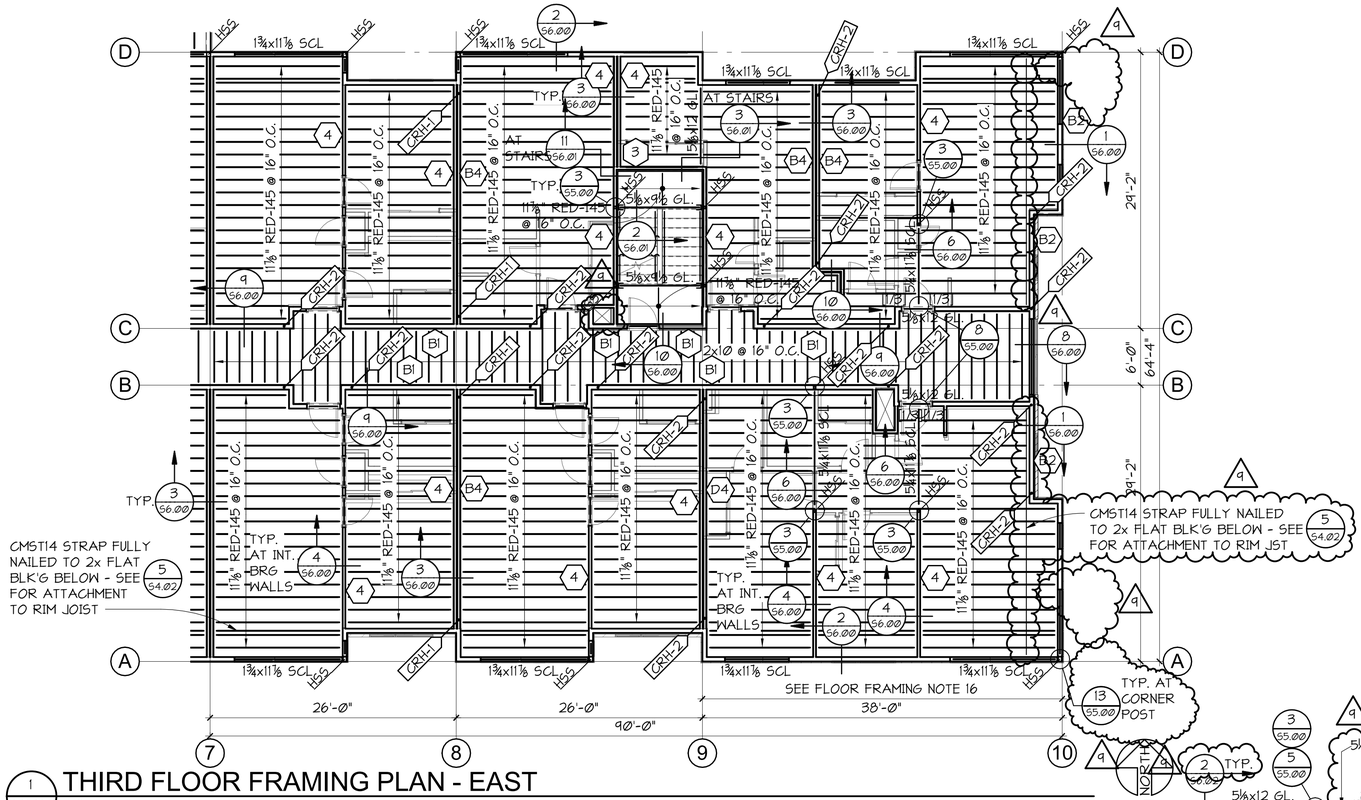
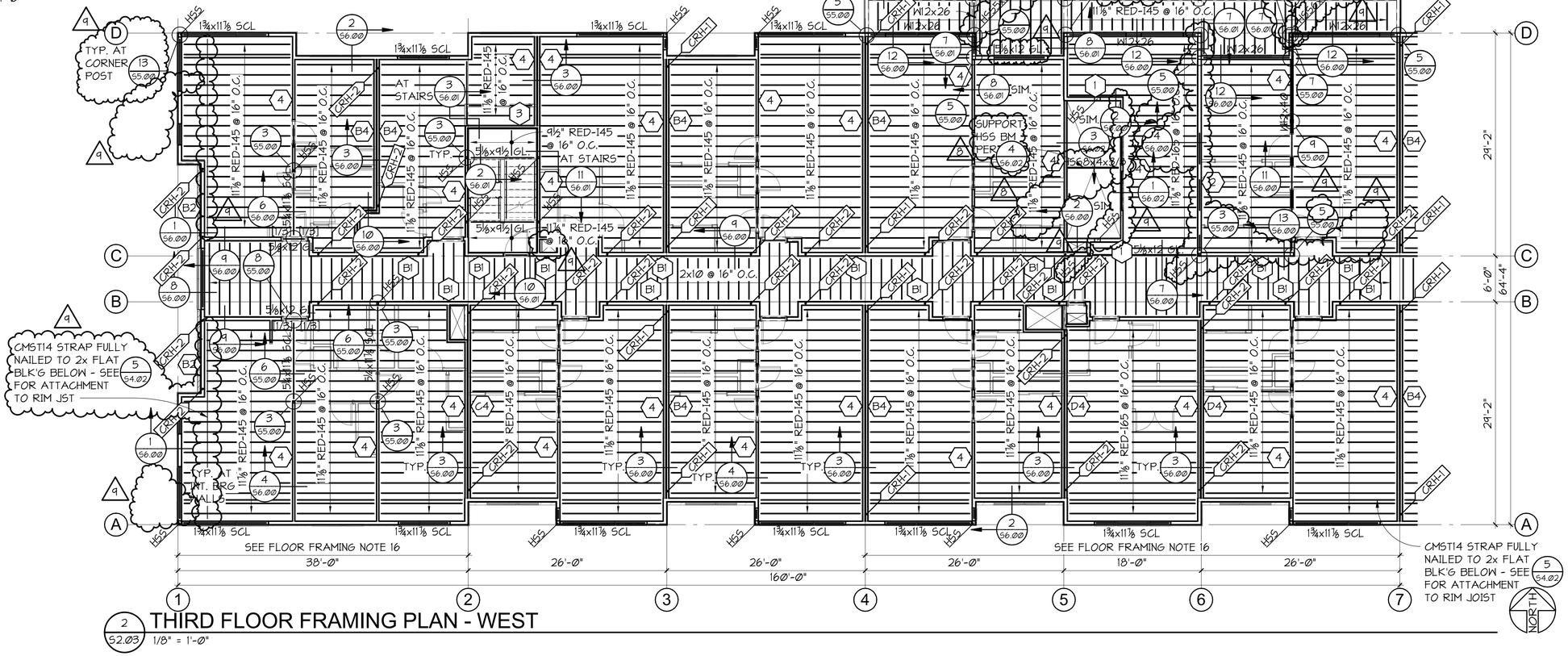


1 S2.03 **THIRD FLOOR FRAMING PLAN - EAST**

1/8" = 1'-0"



2 S2.03 **THIRD FLOOR FRAMING PLAN - WEST**

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. INDICATES WOOD STUD WALL. WOOD STUDS TO BE 2x6 AND SPACED @ 16" ON CENTER MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 1/2" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 10d @ 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 10d @ 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE. SEE NOTE #9 FOR ADDITIONAL SHEAR WALL NAILING.
3. INDICATES WALL EXTENDING TO FLOOR STRUCTURE.
4. INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/S4.00.
5. HSS — INDICATES HOLLOW STRUCTURAL SECTION COLUMNS ORIGINATING AT FLOOR LEVEL.
6. HSS — INDICATES HOLLOW STRUCTURAL SECTION COLUMNS PASSING THROUGH FLOOR LEVEL.
7. BU COL. — INDICATES WOOD STUD BUILT-UP COLUMN. SEE 2/S4.00 FOR TYPICAL DETAIL.
8. [X/Y] — INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE 1/S4.00 FOR TYPICAL DETAIL.
9. XX — INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 4/S4.00 FOR SCHEDULE.
10. CRH-1 — INDICATES CONTINUOUS ROD HOLDOWN. SEE S4.02 FOR SCHEDULES.
11. INDICATES PENETRATION IN FLOOR STRUCTURE.
12. PROVIDE 23/32" TONGUE & GROOVE WOOD SHEATHING OVER ENTIRE FLOOR STRUCTURE. NAIL WOOD FLOOR SHEATHING WITH 10d @ 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d @ 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE. SEE 3/S4.00 FOR ADDITIONAL INFORMATION.
13. FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM FLOOR STRUCTURE SEE 5/S6.01 & 6/S6.01.
14. NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE S4.04.
15. PROVIDE 1½" CONCRETE TOPPING SLAB ON TOP OF SHEATHING OVER ENTIRE FLOOR STRUCTURE. SEE GENERAL NOTES FOR MIX DESIGN.
16. BETWEEN GRIDLINES 1-2, 4-7, & 9-10 PROVIDE BLOCKED DIAPHRAGM. PROVIDE 2x FLAT BLOCKING AT ALL PANEL EDGES. NAIL WITH 10d AT 4" ON CENTER AT SUPPORTED EDGES AND BOUNDARIES AND 10d AT 6" ON CENTER AT INTERMEDIATE SUPPORTS AT ALL LEVELS.
17. FOR EAST - WEST ELEVATOR GUIDERAIL SUPPORT, SEE FRAMING PER PLAN ALONG WITH DETAILS 10/S5.00, 11/S5.00 & 6/S5.00.

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MAIN BUILDING THIRD FLOOR FRAMING PLAN

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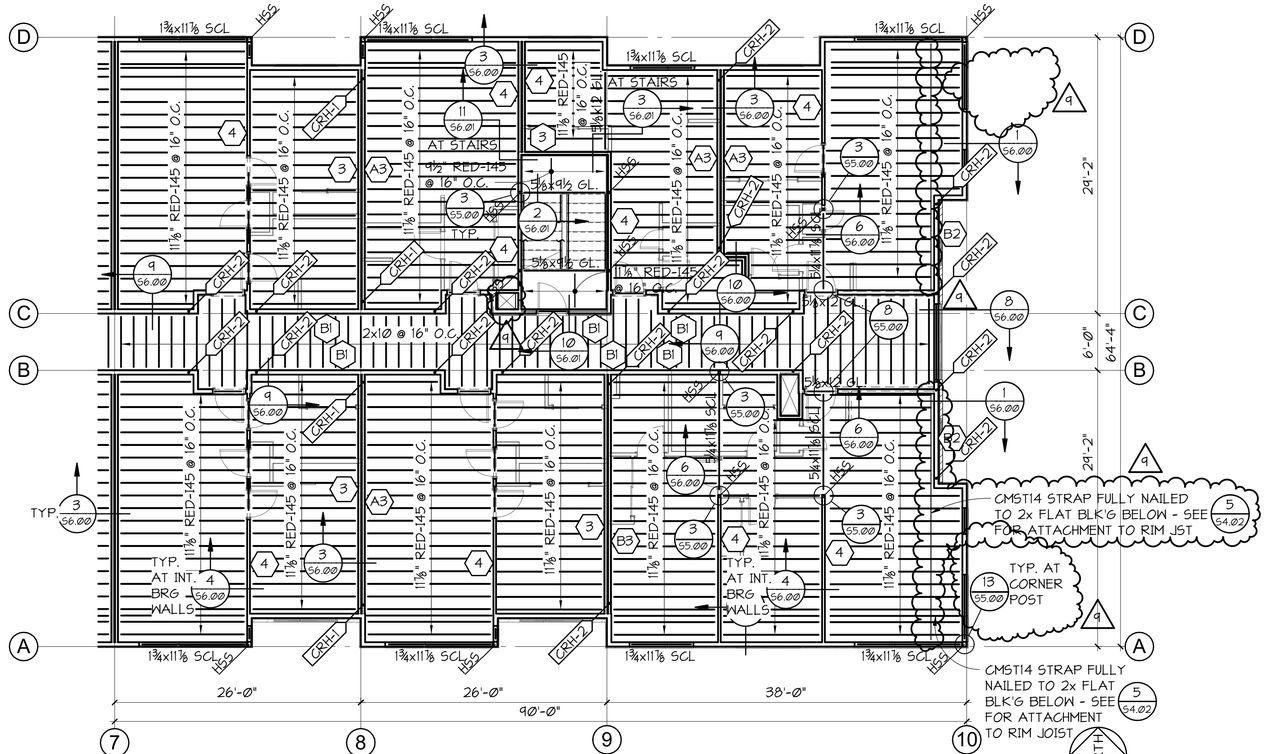
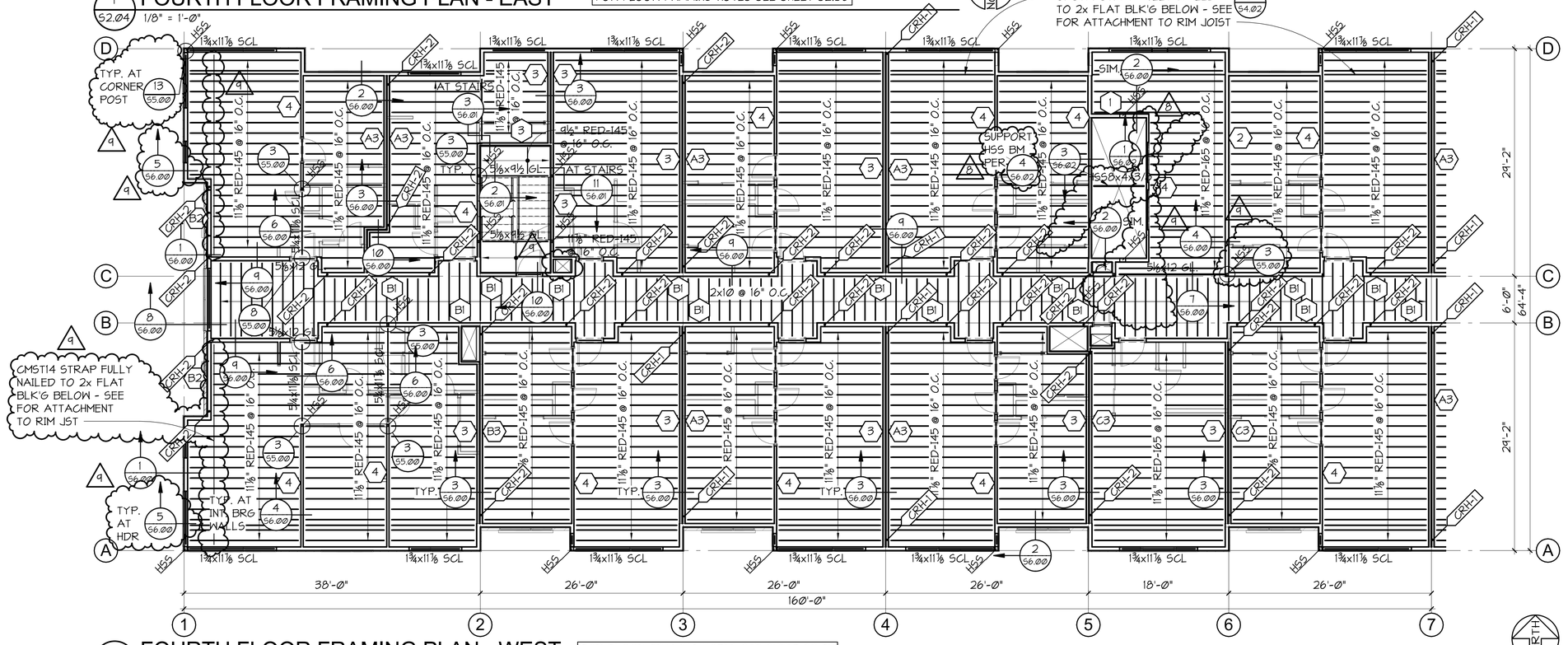


1 S2.04 **FOURTH FLOOR FRAMING PLAN - EAST** 1/8" = 1'-Ø"

FOR FLOOR FRAMING NOTES SEE SHEET S2.03



2 S2.04 **FOURTH FLOOR FRAMING PLAN - WEST** 1/8" = 1'-Ø"

FOR FLOOR FRAMING NOTES SEE SHEET S2.03

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MAIN BUILDING FOURTH FLOOR FRAMING PLAN

S2.04

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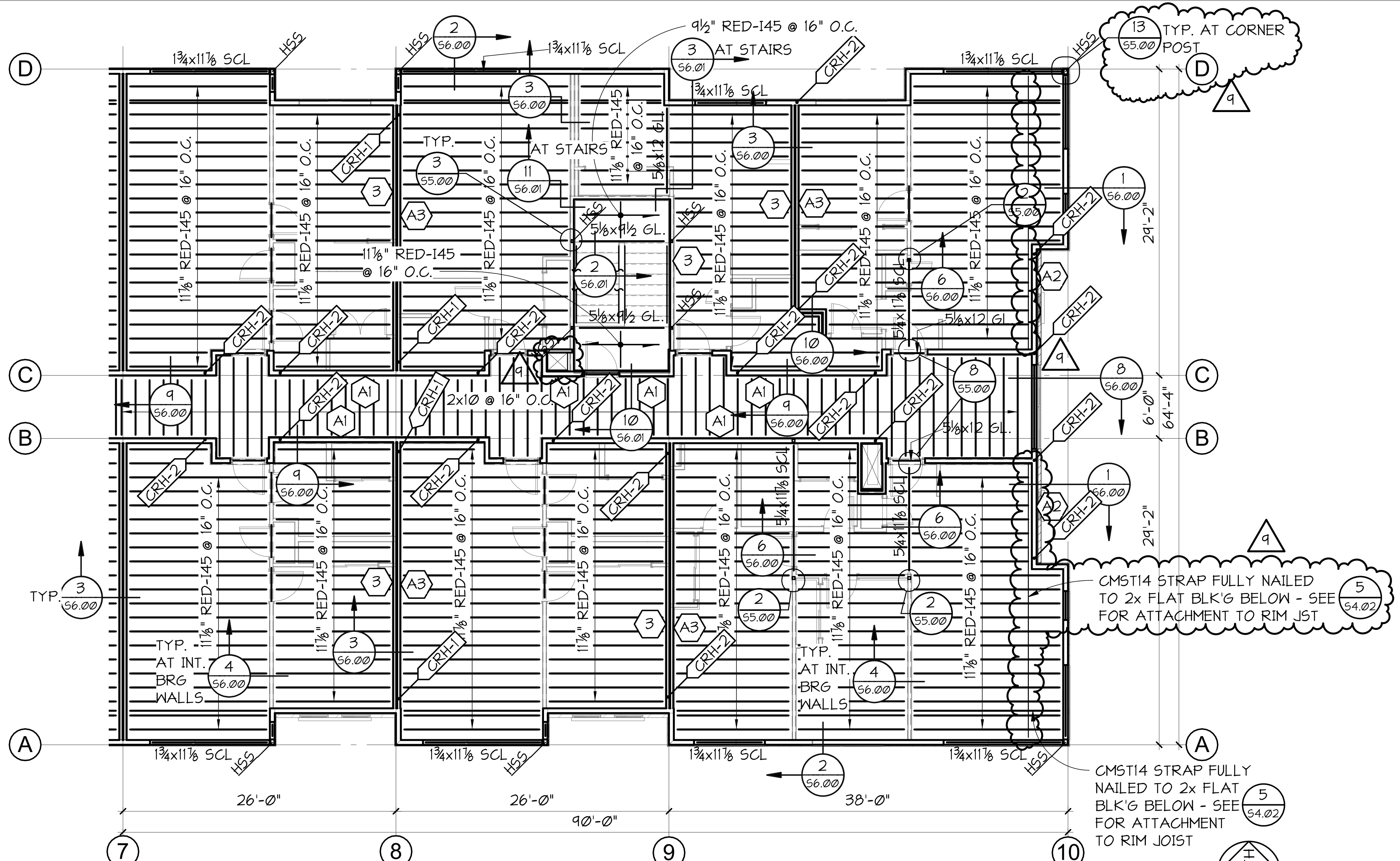
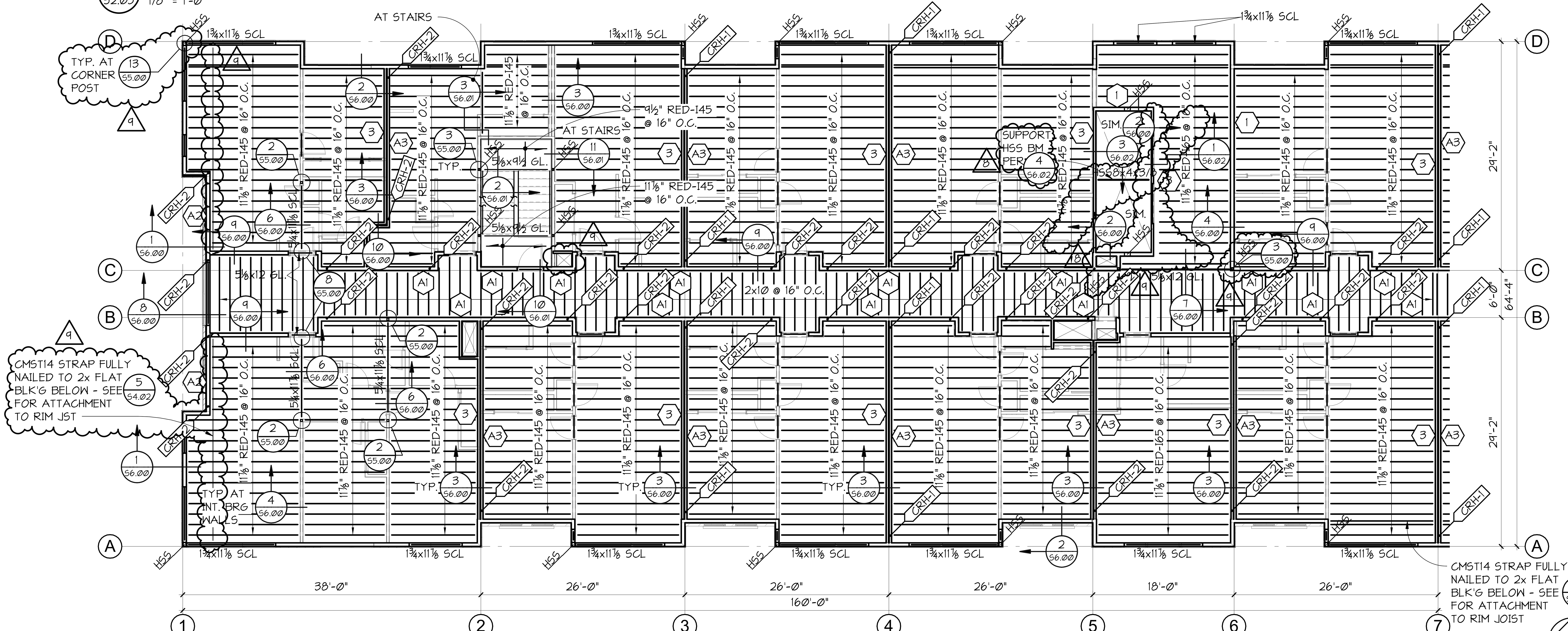


FIFTH FLOOR FRAMING PLAN - EAST

1/S2.05 — 1/8" = 1'-0"

FOR FLOOR FRAMING NOTES SEE SHEET S2.03



FIFTH FLOOR FRAMING PLAN - WEST

2/S2.05 — 1/8" = 1'-0"

FOR FLOOR FRAMING NOTES SEE SHEET S2.03

8/6/2019 2:11:12 PM   C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt

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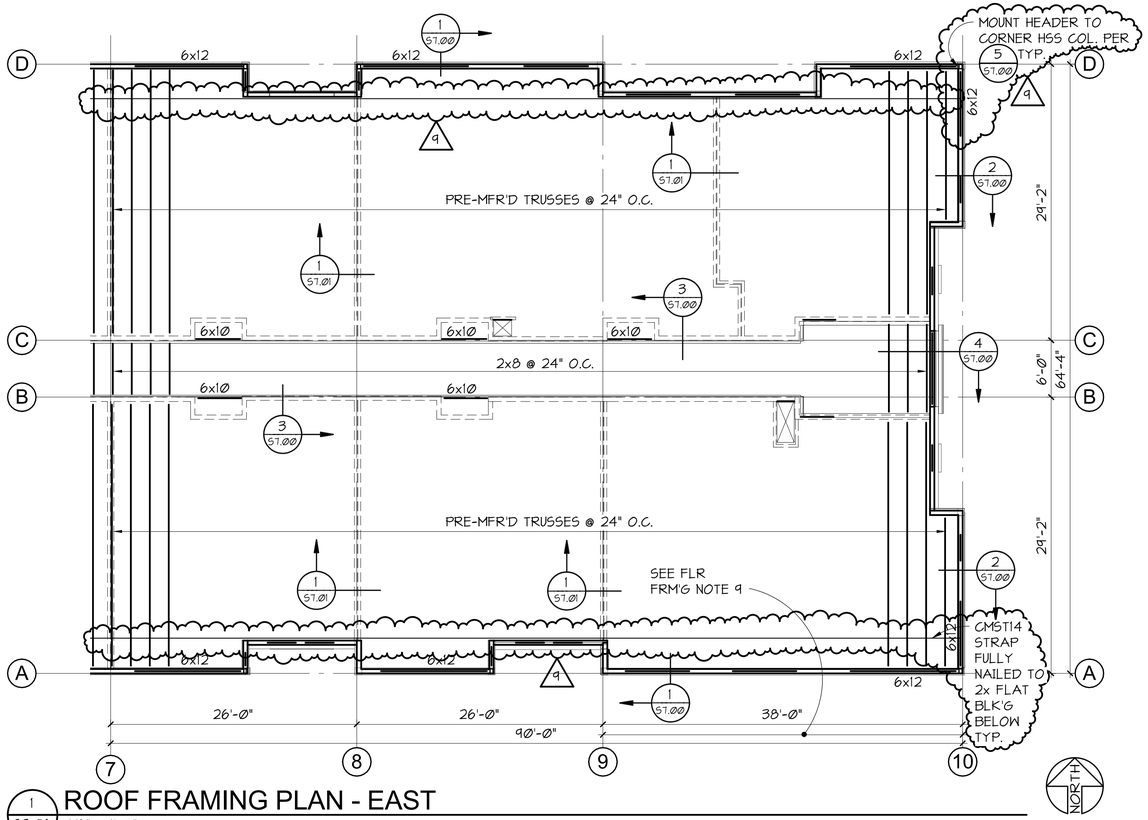
EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
PERMIT SET
5/11/18

REVISION 9
07/17/19

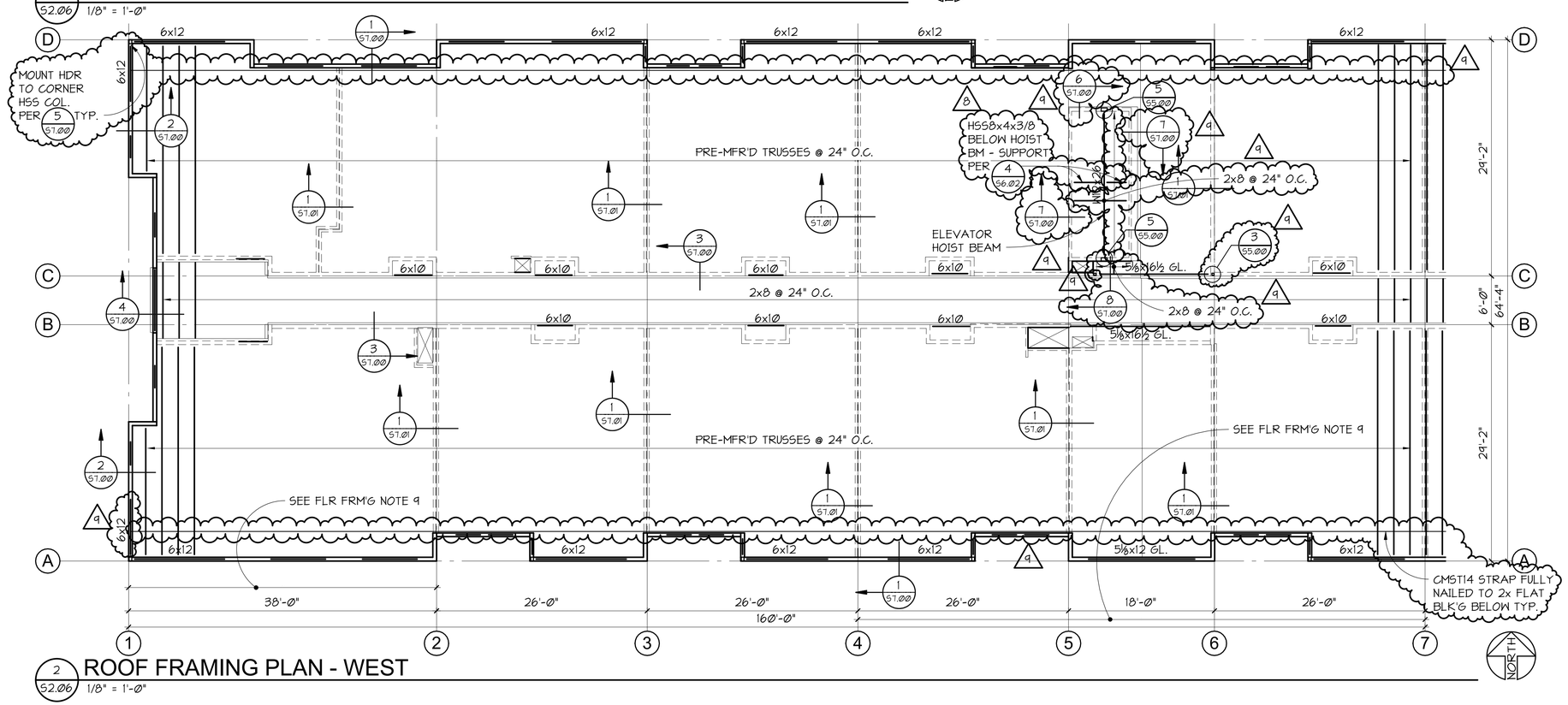
MAIN BUILDING FIFTH FLOOR FRAMING PLAN

S2.05



1 S2.06 ROOF FRAMING PLAN - EAST

1/8" = 1'-0"



2 S2.06 ROOF FRAMING PLAN - WEST

1/8" = 1'-0"

ROOF FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" A.F.F. UNLESS NOTED OTHERWISE.
2. INDICATES WOOD STUD WALL EXTENDING ABOVE ROOF TO FORM PARAPET.
3. INDICATES WALL EXTENDING TO ROOF STRUCTURE.
4. INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/S4.00.
5. INDICATES PENETRATION IN ROOF STRUCTURE.
6. PROVIDE 23/32" T&G WOOD SHEATHING OVER ENTIRE ROOF STRUCTURE. NAIL WOOD FLOOR SHEATHING WITH 10d @ 6" O.C. AT ALL SUPPORTED PANEL EDGES AND 10d @ 10" O.C. AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE. SEE 3/S4.00 FOR ADITIONAL INFORMATION.
7. INDICATES OVER-LAY FRAMING. SEE 3/S7.01 & 4/S7.01.
8. FOR SUPPORT OF MISCELLANOUS MECHANICAL EQUIPMENT AND PIPES FROM ROOF STRUCTURE, SEE5/S7.01.
9. BETWEEN GRID LINES 1-2, 4-7, & 9-10 PROVIDE BLOCKED DIAPHRAGM. PROVIDE 2x FLAT BLOCKING AT ALL PANEL EDGES. NAIL WITH 10d @ 4" O.C. AT SUPPORT EDGES & BOUNDARIES AND 10d @ 6" O.C. AT INTERMEDIATE SUPPORTS AT ALL LEVELS.
10. FOR TYPICAL MECHANICAL UNIT ATTACHMENT TO ROOF TRUSSES SEE 6/S7.01.

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EAST BAY LOT A WESTMAN MILL

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MAIN BUILDING ROOF FRAMING PLAN

S2.06

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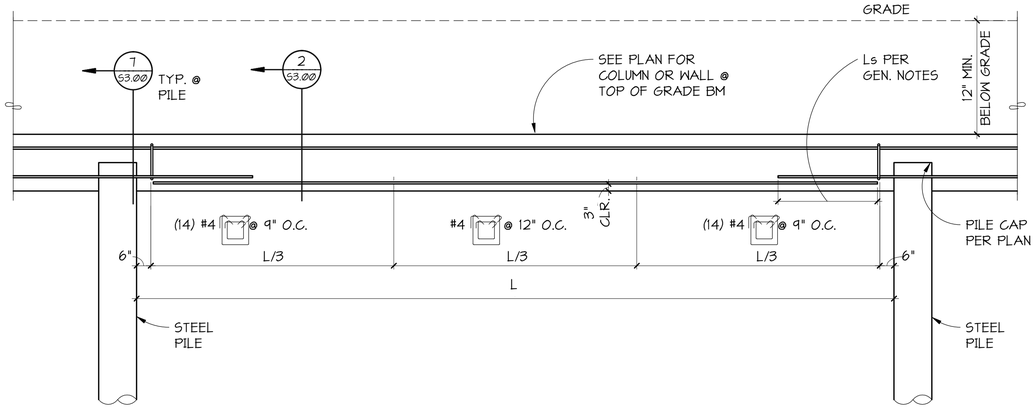
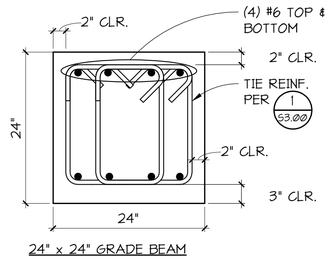


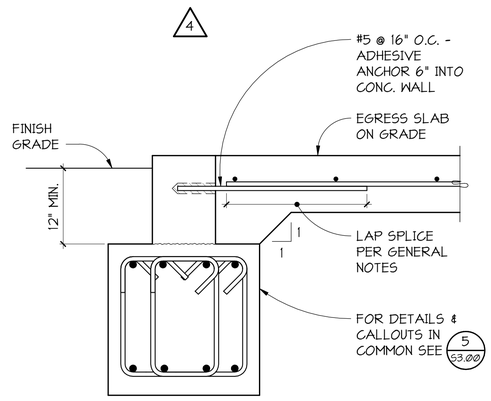
GRADE BEAM

1 53.00 ELEVATION
NO SCALE

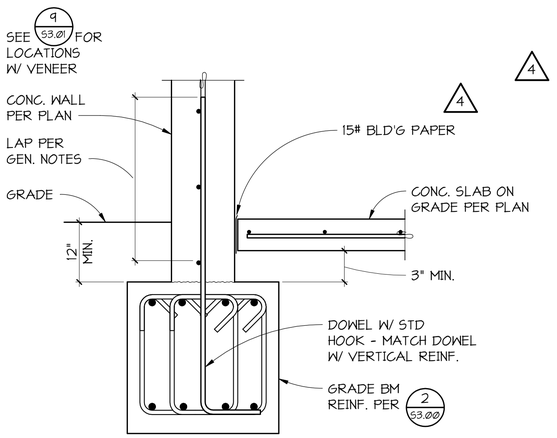


24" x 24" GRADE BEAM

2 53.00 SECTION
NO SCALE



3 53.00 SECTION
NO SCALE



4 53.00 SECTION
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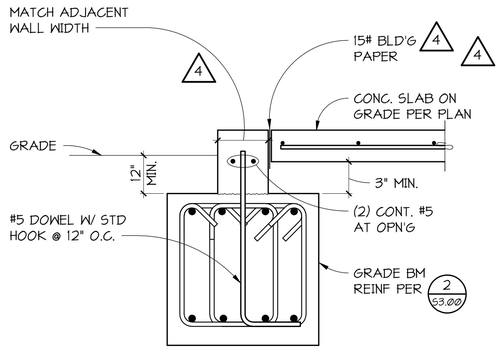

5 53.00 SECTION
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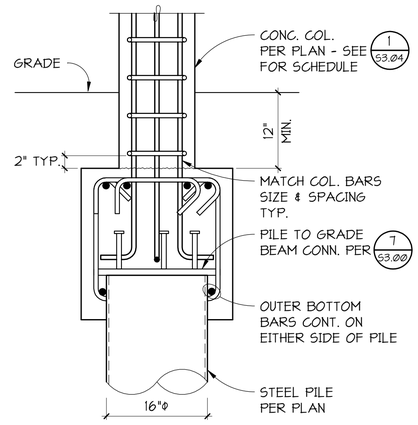

6 53.00 SECTION
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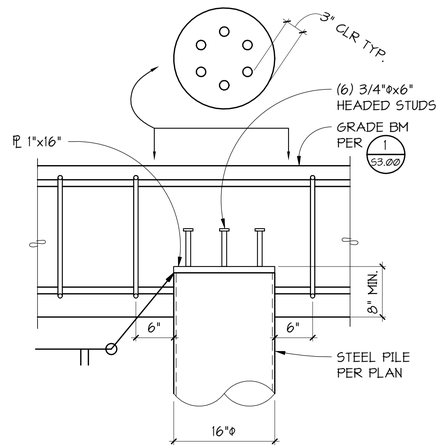

7 53.00 SECTION
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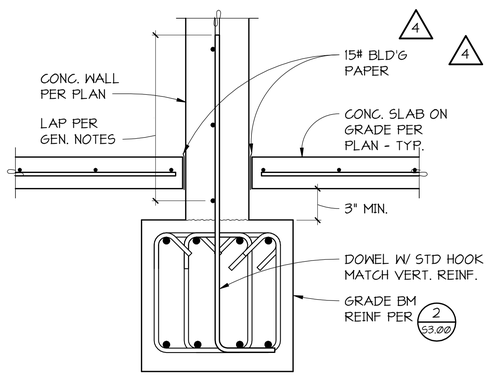
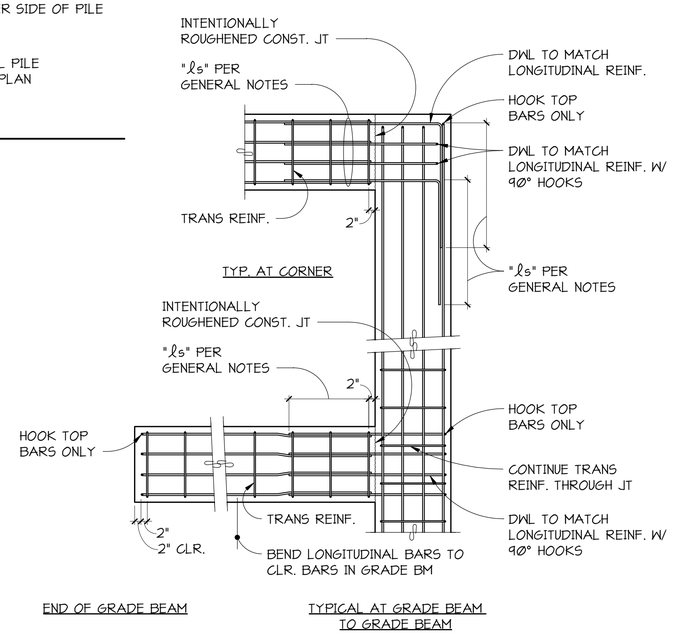


8 53.00 SECTION
NO SCALE



9 53.00 PLAN DETAIL
1/2" = 1'-0"

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EAST BAY LOT A
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GRADE BEAM DETAILS

S3.00

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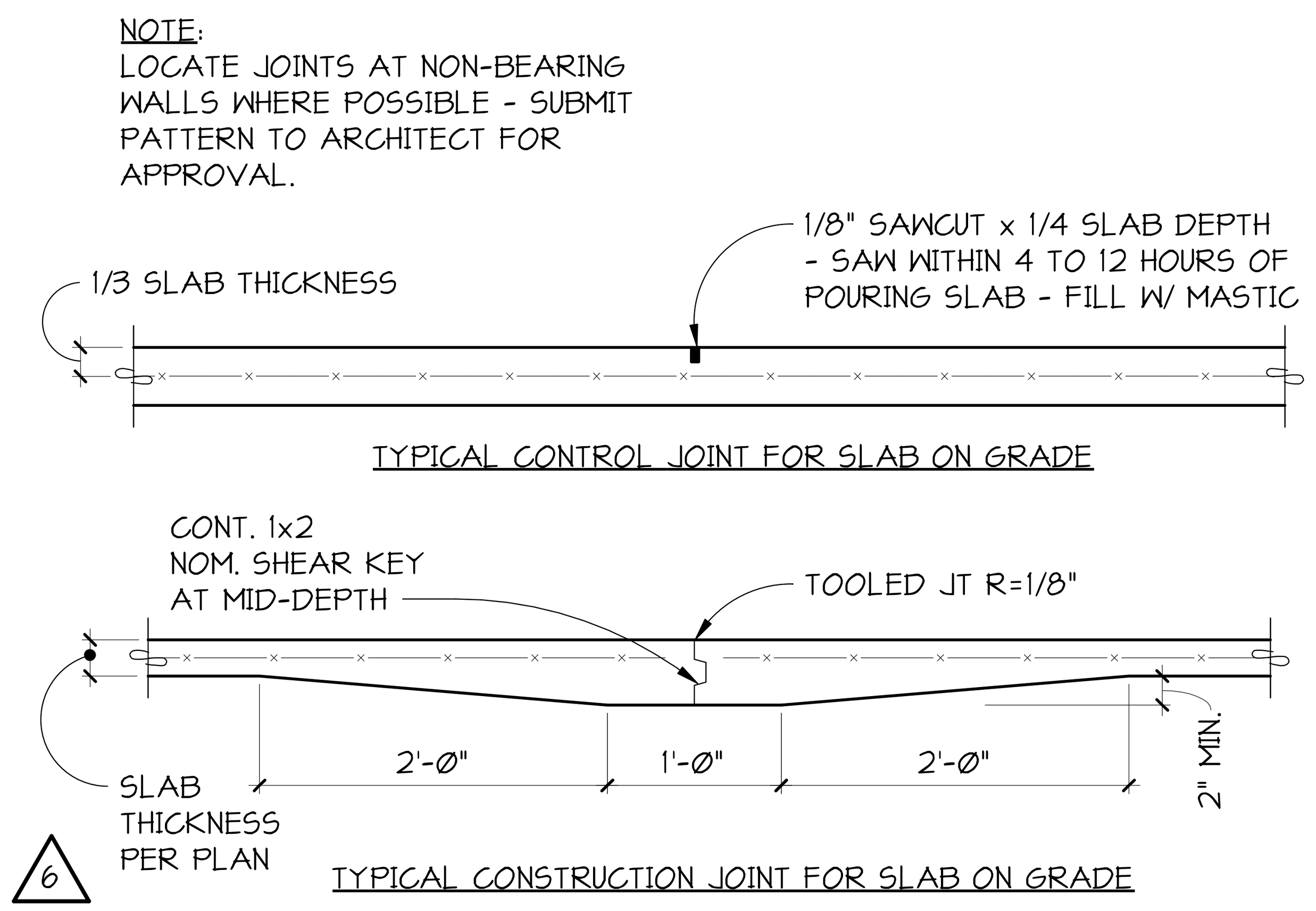
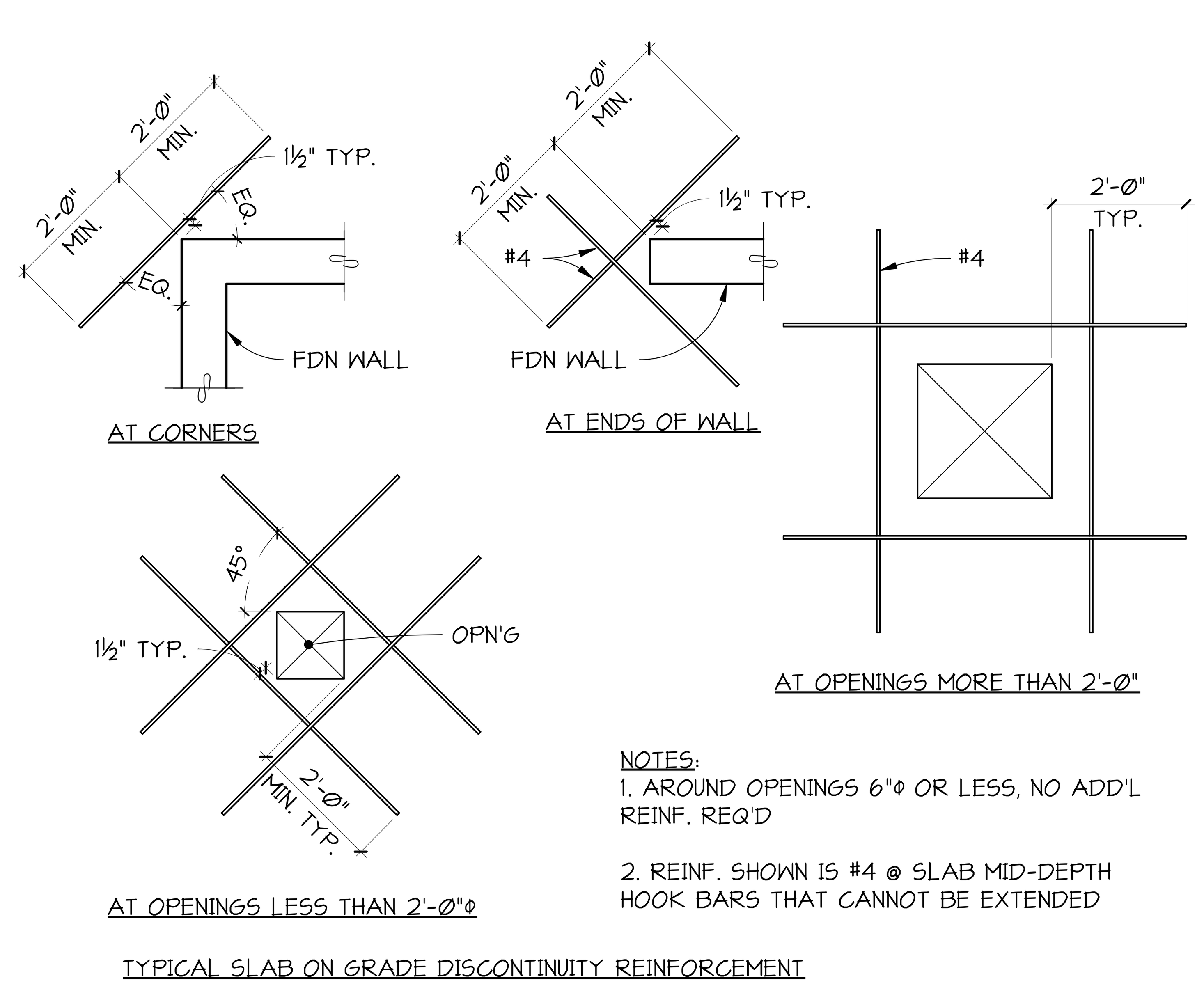
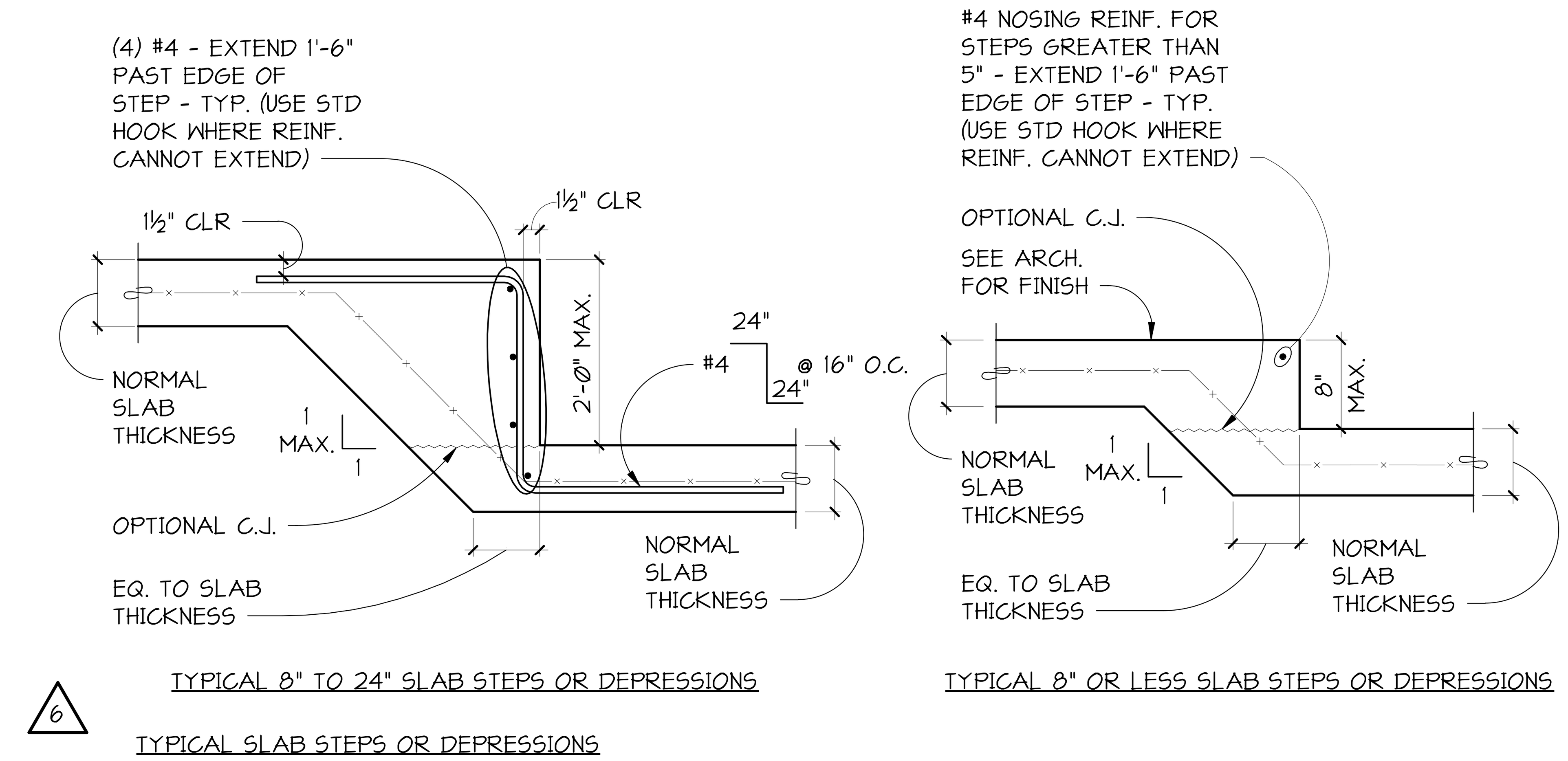

NOTE:
LOCATE JOINTS AT NON-BEARING WALLS WHERE POSSIBLE - SUBMIT PATTERN TO ARCHITECT FOR APPROVAL.
1/8" SAWCUT x 1/4 SLAB DEPTH - SAW WITHIN 4 TO 12 HOURS OF POURING SLAB - FILL W/ MASTIC
1/3 SLAB THICKNESS
TYPICAL CONTROL JOINT FOR SLAB ON GRADE
CONT. 1x2 NOM. SHEAR KEY AT MID-DEPTH
TOOLED JT R=1/8"
SLAB THICKNESS PER PLAN
2'-0"
1'-0"
2'-0"
2" MIN.
6
TYPICAL CONSTRUCTION JOINT FOR SLAB ON GRADE

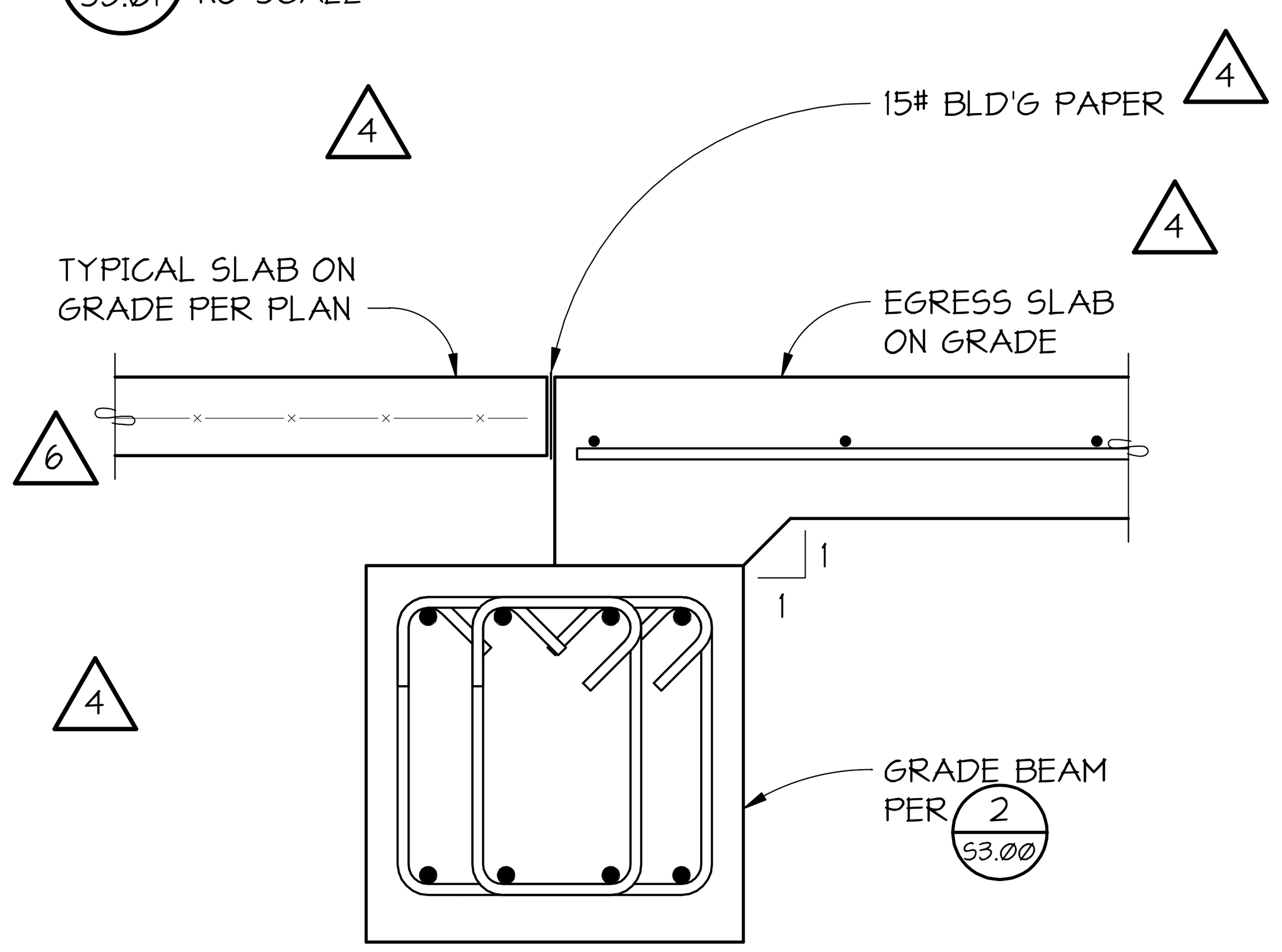
1 SECTION
S3.01 NO SCALE


2'-0" MIN.
2'-0" MIN.
1½" TYP.
EQ.
EQ.
FDN WALL
AT CORNERS
#4
1½" TYP.
FDN WALL
AT ENDS OF WALL
2'-0" TYP.
#4
AT OPENINGS MORE THAN 2'-0"
45°
1½" TYP.
OPN'G
2'-0" MIN. TYP.
AT OPENINGS LESS THAN 2'-0"ø
NOTES:
1. AROUND OPENINGS 6"ø OR LESS, NO ADD'L REINF. REQ'D
2. REINF. SHOWN IS #4 @ SLAB MID-DEPTH HOOK BARS THAT CANNOT BE EXTENDED
TYPICAL SLAB ON GRADE DISCONTINUITY REINFORCEMENT

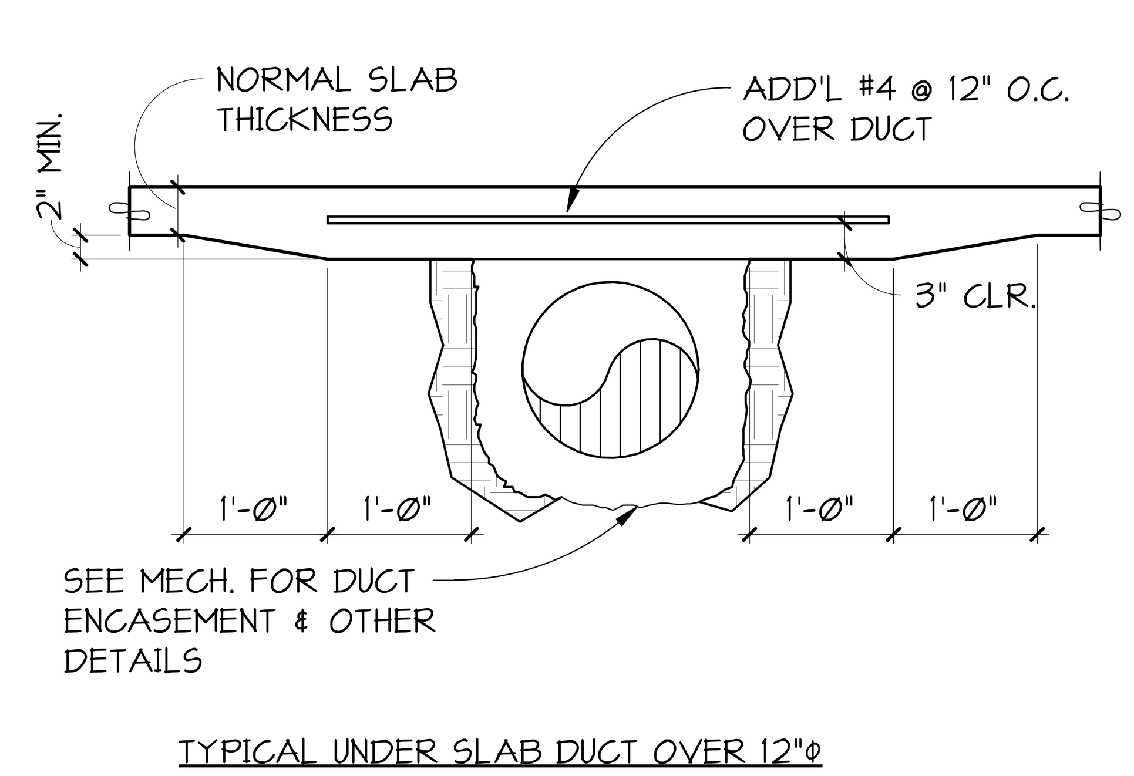
2 PLAN DETAILS
S3.01 NO SCALE


(4) #4 - EXTEND 1'-6" PAST EDGE OF STEP - TYP. (USE STD HOOK WHERE REINF. CANNOT EXTEND)
1½" CLR
1½" CLR
NORMAL SLAB THICKNESS
1 MAX. 1
2'-0" MAX.
24"
#4
24"
@ 16" O.C.
OPTIONAL C.J.
NORMAL SLAB THICKNESS
EQ. TO SLAB THICKNESS
TYPICAL 8" TO 24" SLAB STEPS OR DEPRESSIONS
#4 NOSING REINF. FOR STEPS GREATER THAN 5" - EXTEND 1'-6" PAST EDGE OF STEP - TYP. (USE STD HOOK WHERE REINF. CANNOT EXTEND)
OPTIONAL C.J.
SEE ARCH. FOR FINISH
8" MAX.
NORMAL SLAB THICKNESS
1 MAX. 1
EQ. TO SLAB THICKNESS
NORMAL SLAB THICKNESS
TYPICAL 8" OR LESS SLAB STEPS OR DEPRESSIONS
6
TYPICAL SLAB STEPS OR DEPRESSIONS

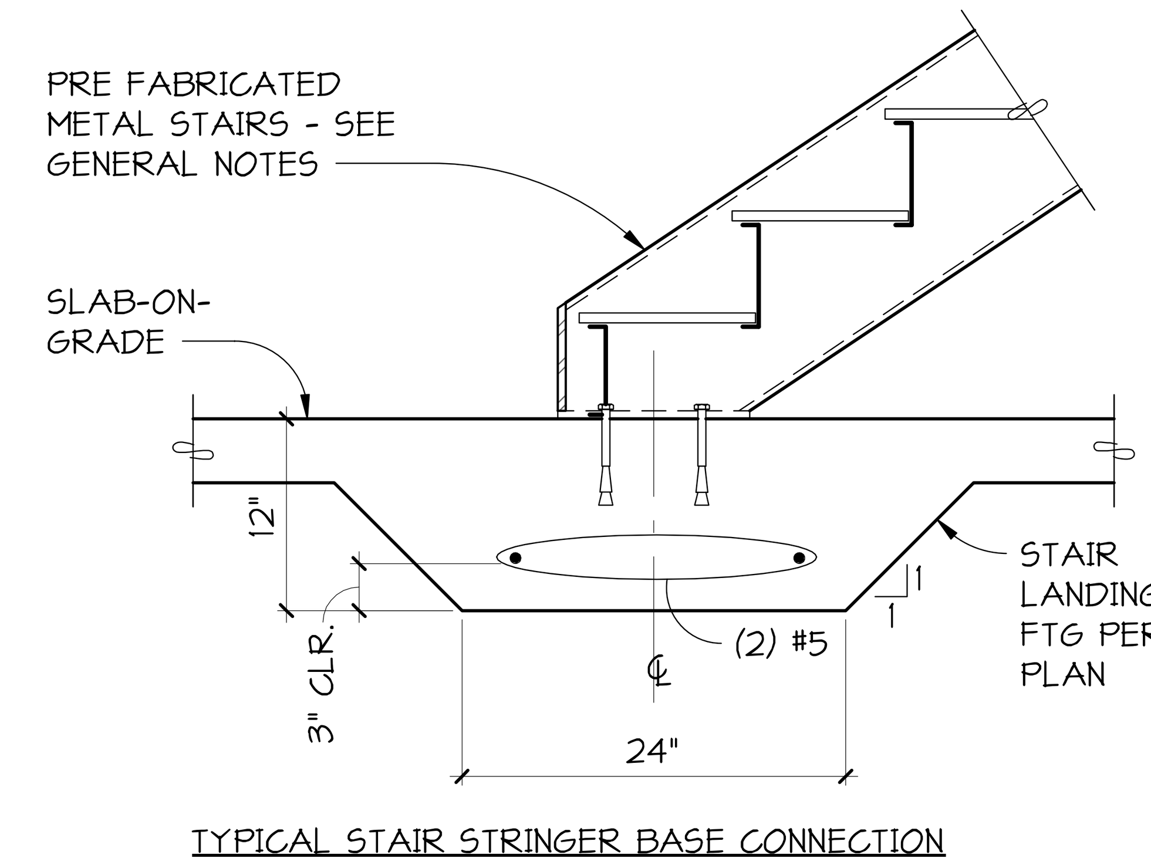
3 DETAIL
S3.01 NO SCALE



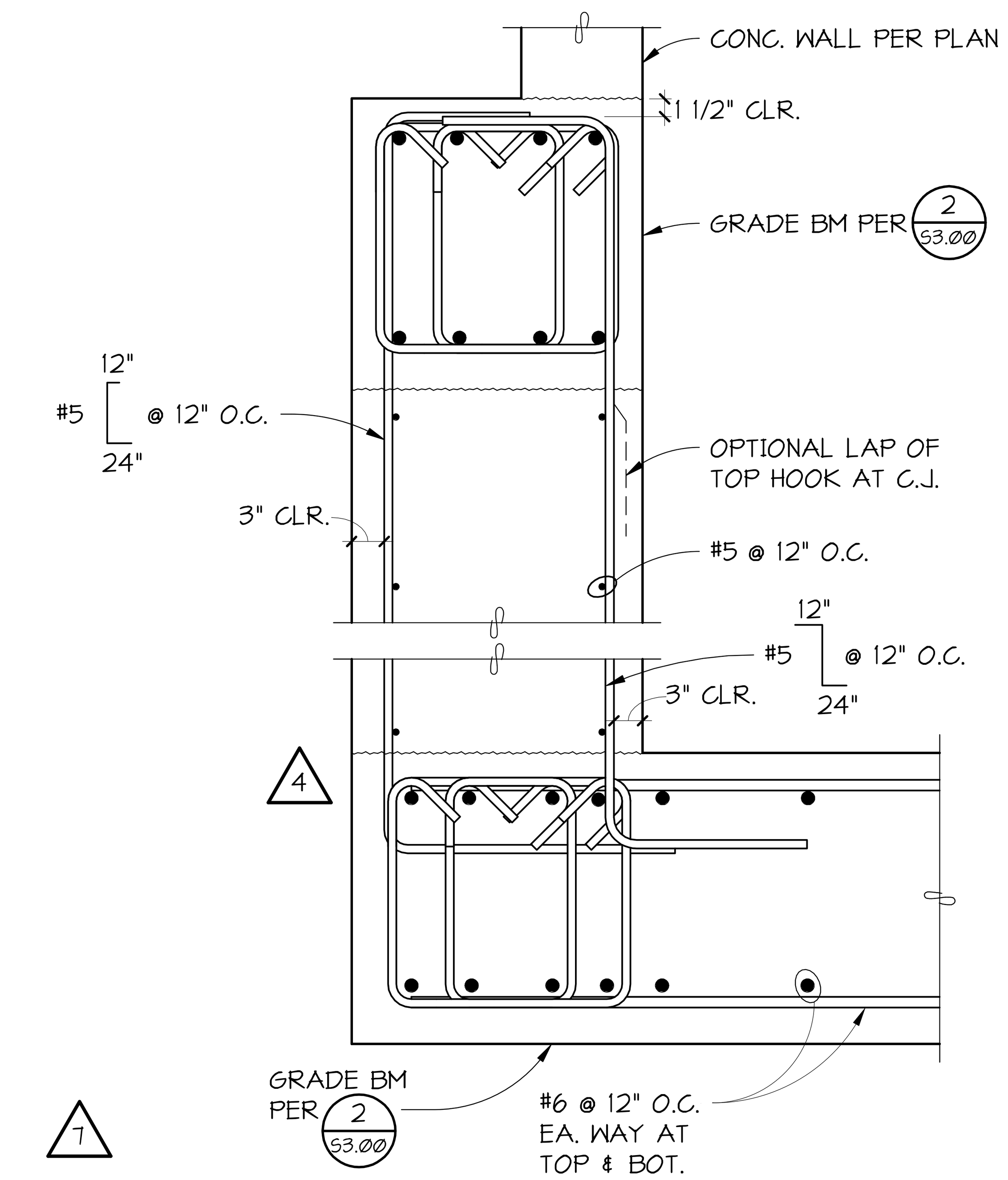
4 SECTION
S3.01 NO SCALE



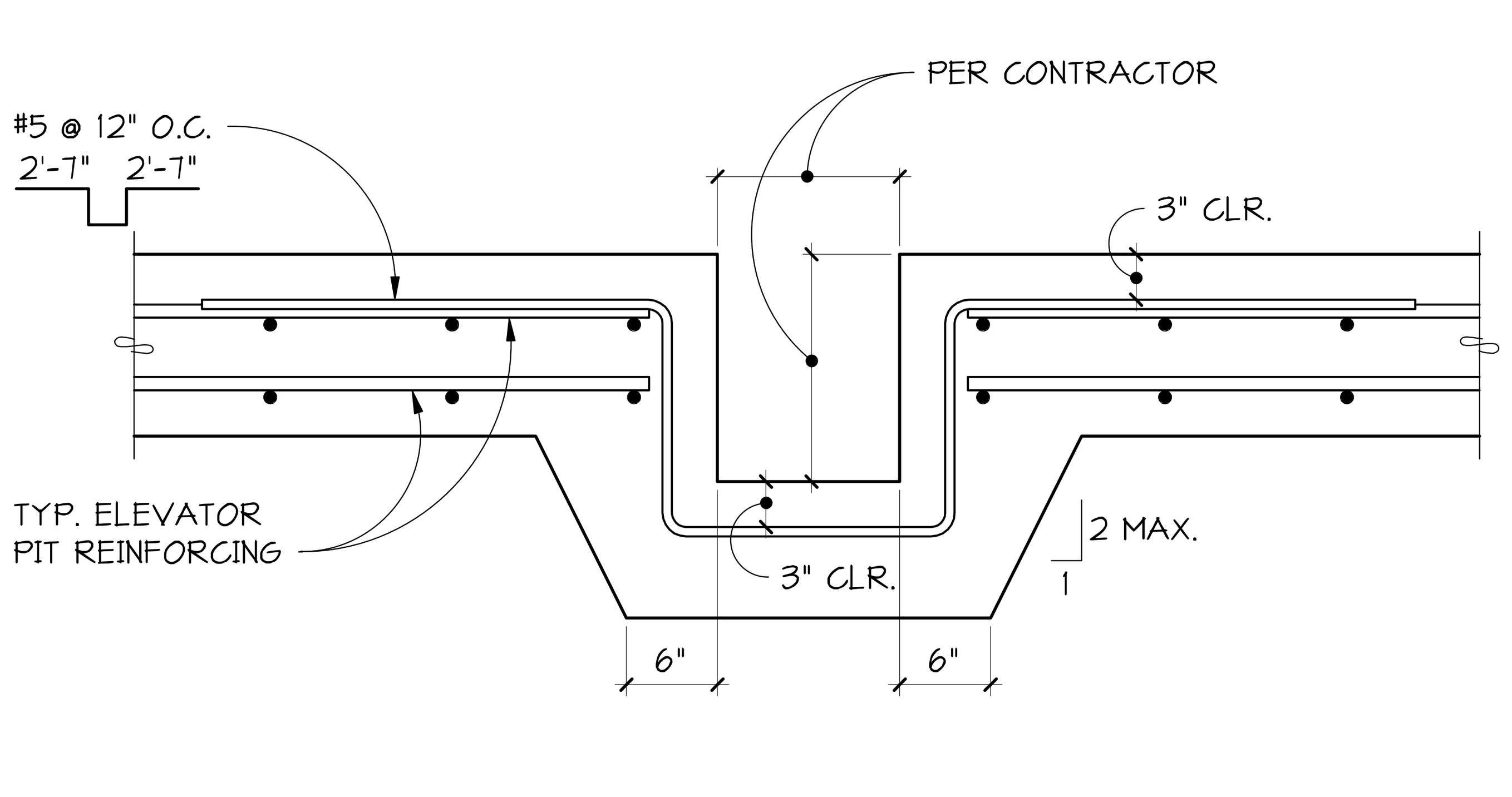
5 SECTION
S3.01 NO SCALE



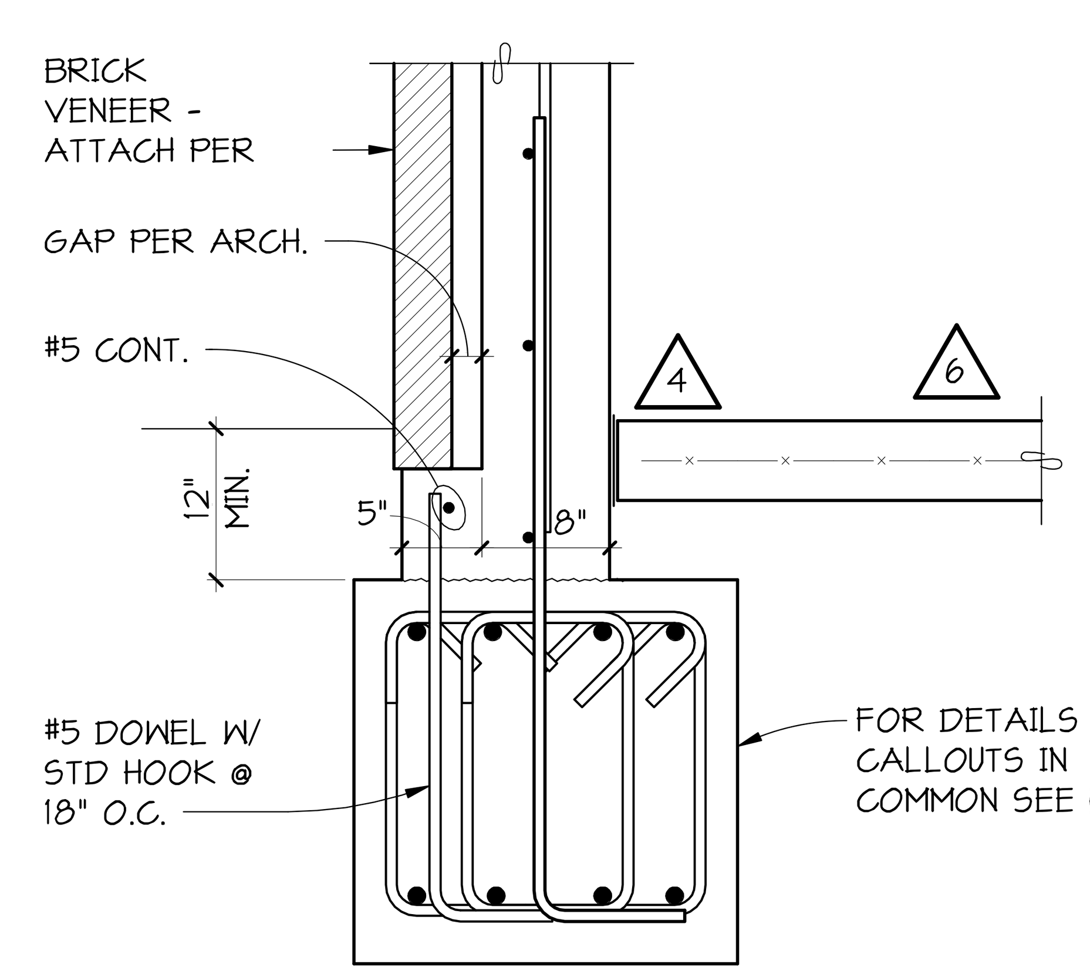
6 SECTION
S3.01 NO SCALE



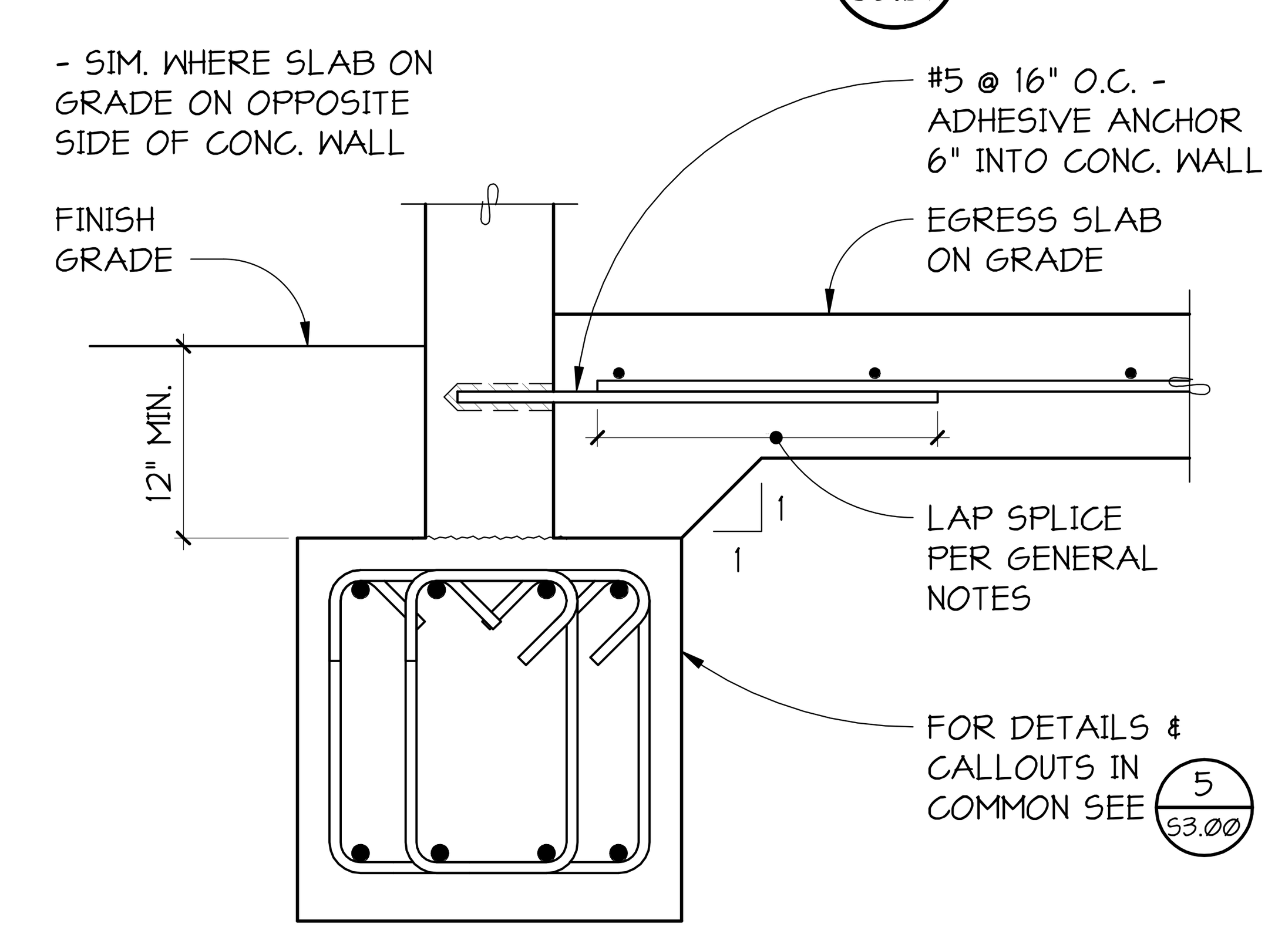
7 SECTION
S3.01 NO SCALE



8 SECTION
S3.01 NO SCALE



9 SECTION
S3.01 NO SCALE



10 SECTION
S3.01 NO SCALE

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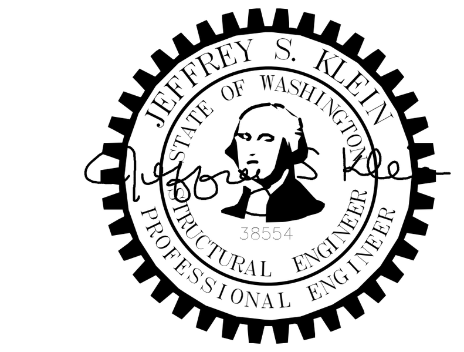

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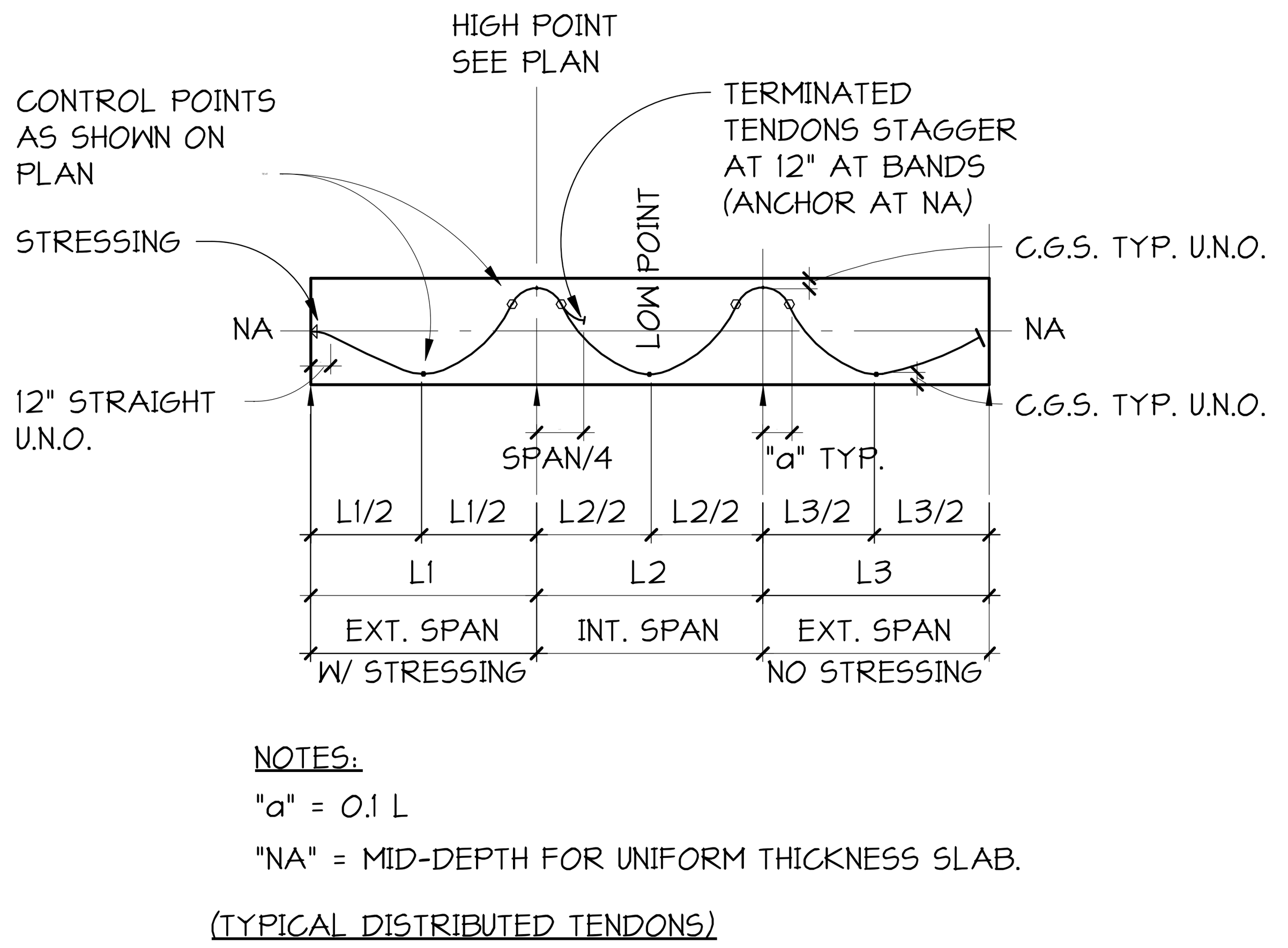
CONCRETE SLAB ON GRADE DETAILS

S3.01



NOTES:

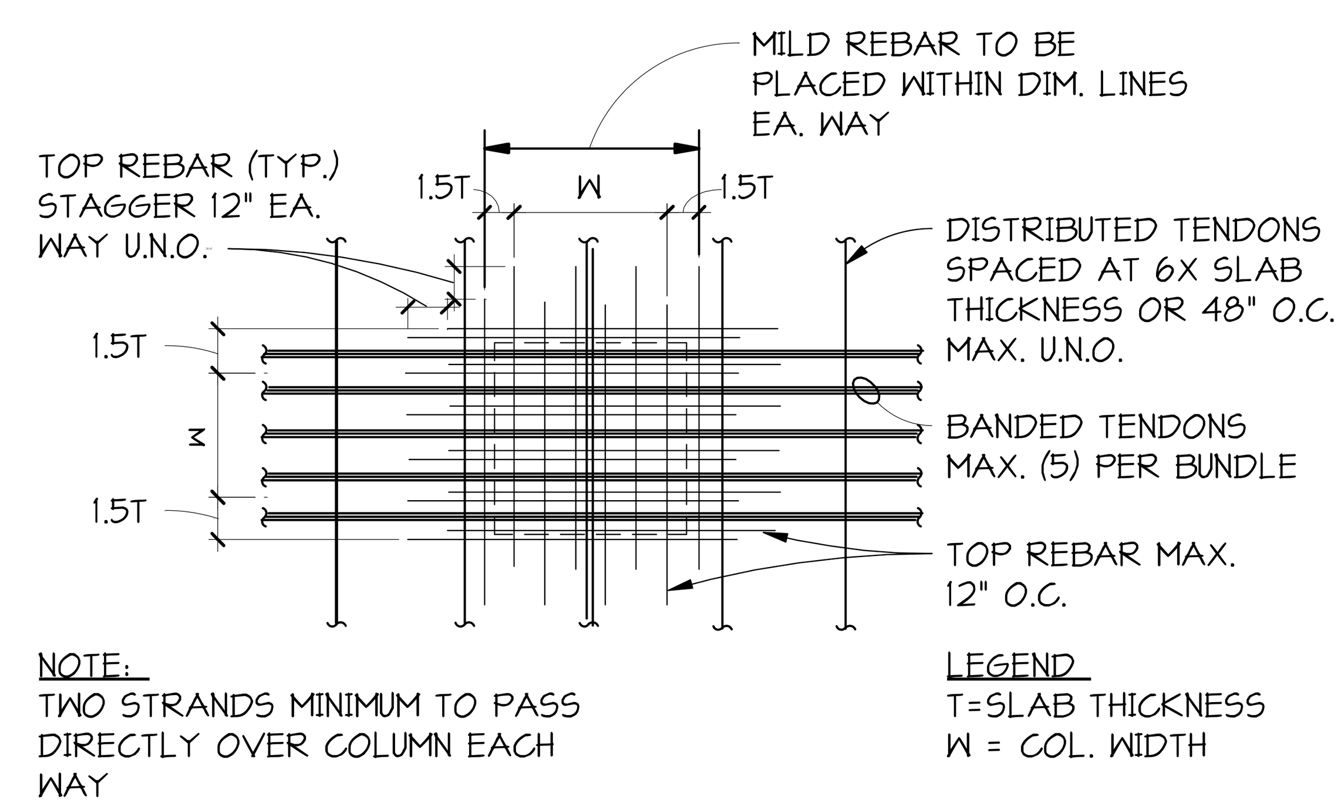
"a" = 0.1 L

"NA" = MID-DEPTH FOR UNIFORM THICKNESS SLAB.

(TYPICAL DISTRIBUTED TENDONS)

TYPICAL PROFILE FOR REVERSED PARABOLA TENDONS

1 ELEVATION
S3.02 NO SCALE

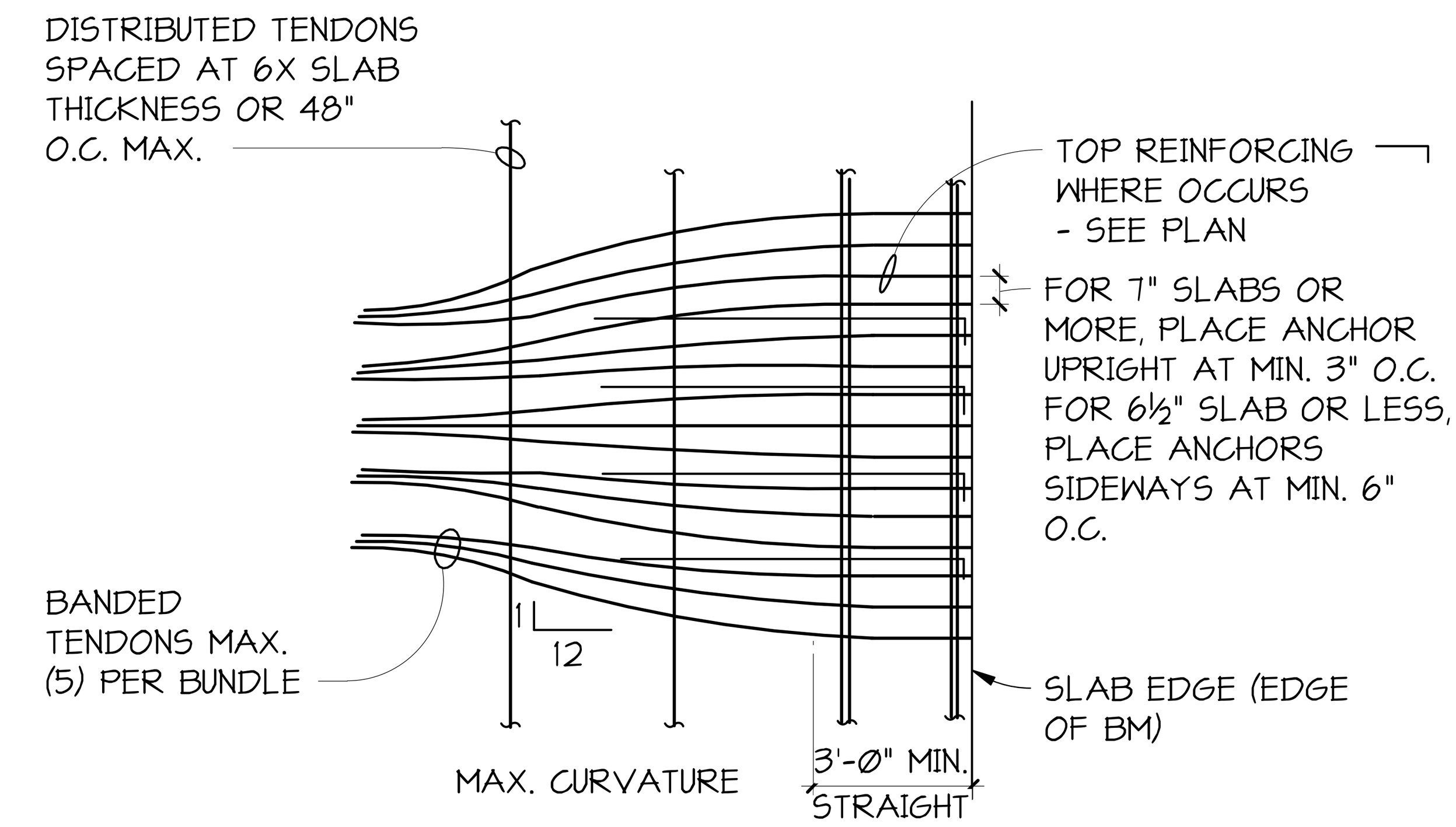


NOTE:
TWO STRANDS MINIMUM TO PASS DIRECTLY OVER COLUMN EACH WAY

LEGEND
T=SLAB THICKNESS
W = COL. WIDTH

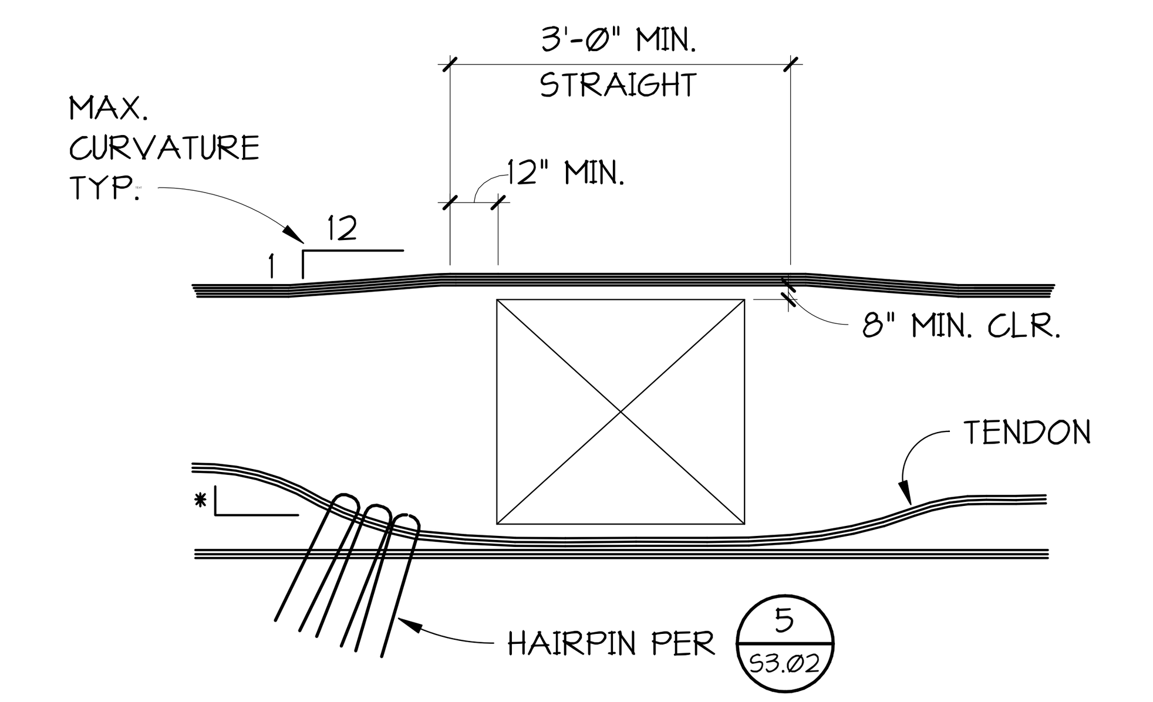
TYPICAL TOP REINFORCEMENT AT INTERIOR COLUMNS

2 PLAN DETAIL
S3.02 NO SCALE



TYPICAL BANDED TENDONS AT EXTERIOR

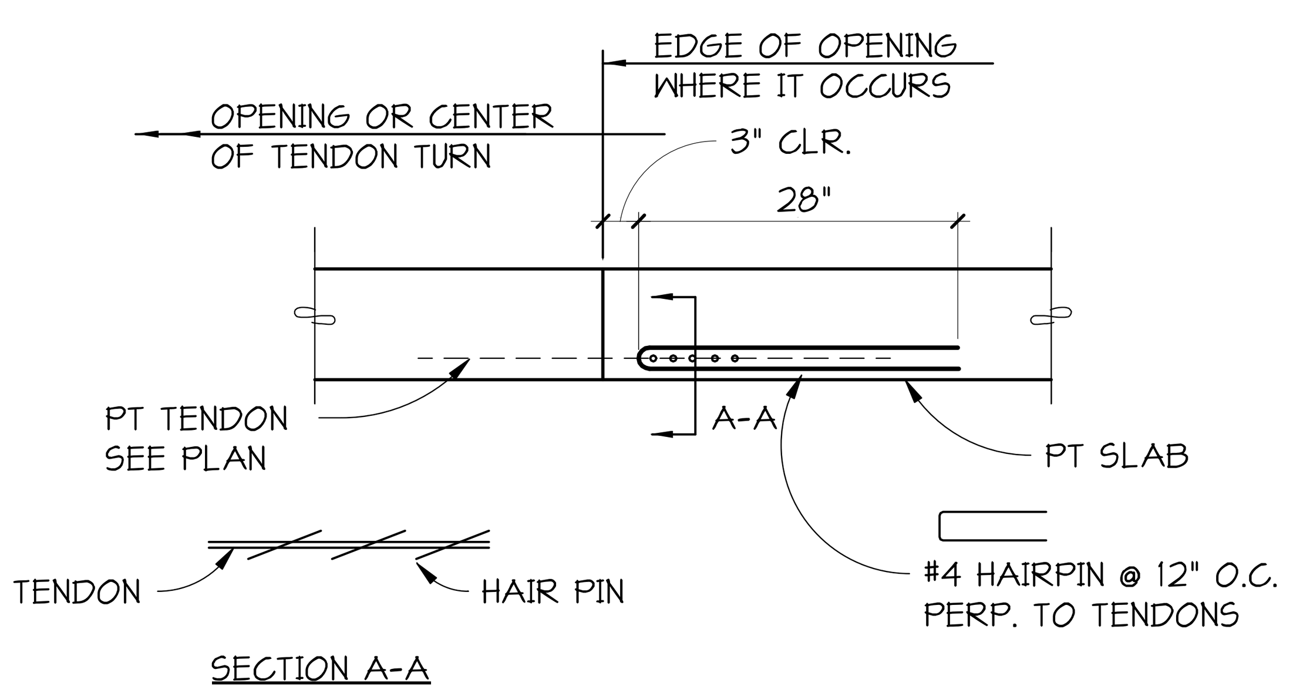
3 PLAN DETAIL
S3.02 NO SCALE



* WHERE TENDON CURVATURE EXCEEEDS 1:12
* MAX. ALLOWABLE CURVATURE: 1:6

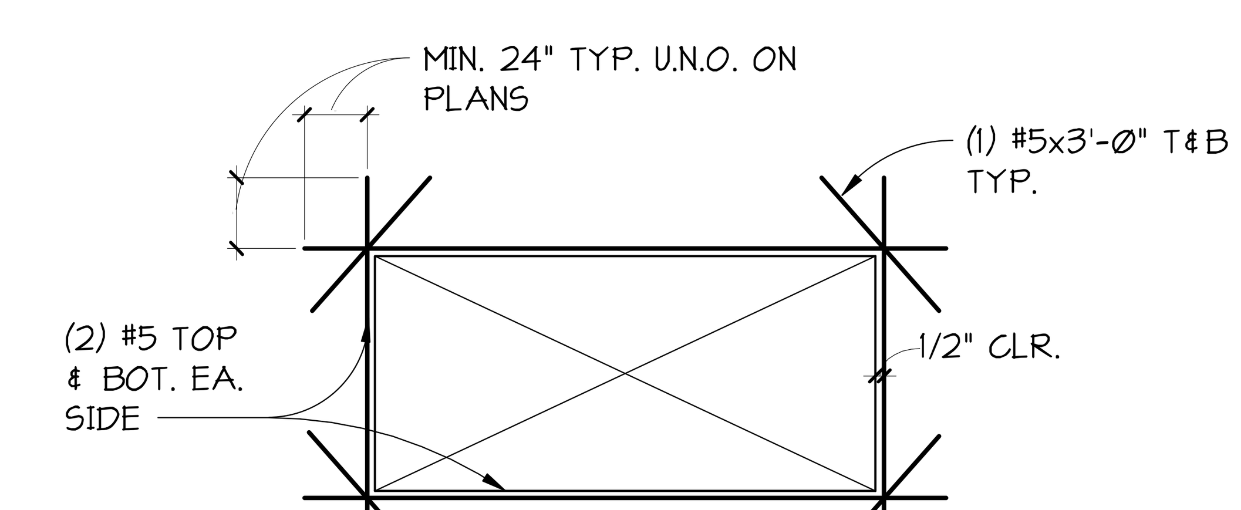
TYPICAL TENDON PLACEMENT AT OPENING 24" OR LARGER

4 PLAN DETAIL
S3.02 NO SCALE



TYPICAL HAIRPIN AT TENDON TURNS

5 SECTION
S3.02 NO SCALE

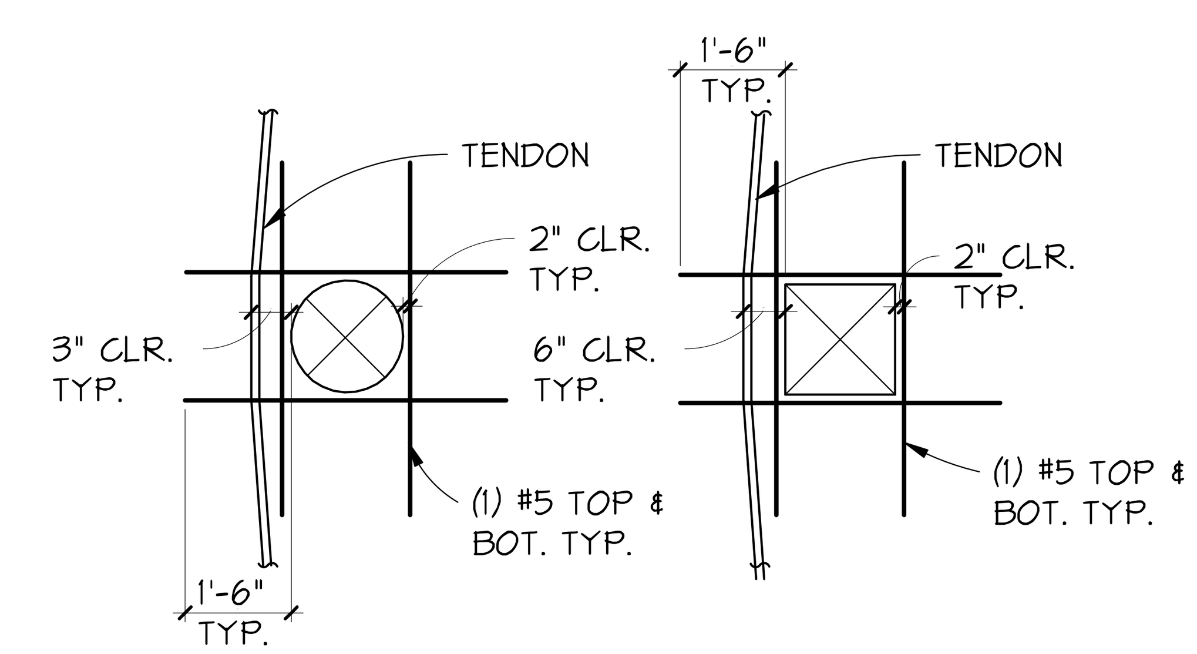


NOTES:

1. ALL OPENINGS LARGER THAN 24" SHALL BE TRIMMED AS SHOWN - FOR OPENINGS LESS THAN 24", SEE 7/S3.02.
2. THESE BARS ARE IN ADDITION TO REBAR SHOWN ON PLANS

TYPICAL TRIM BARS FOR INTERIOR OPENINGS IN SLAB > 24"

6 DETAIL
S3.02 NO SCALE

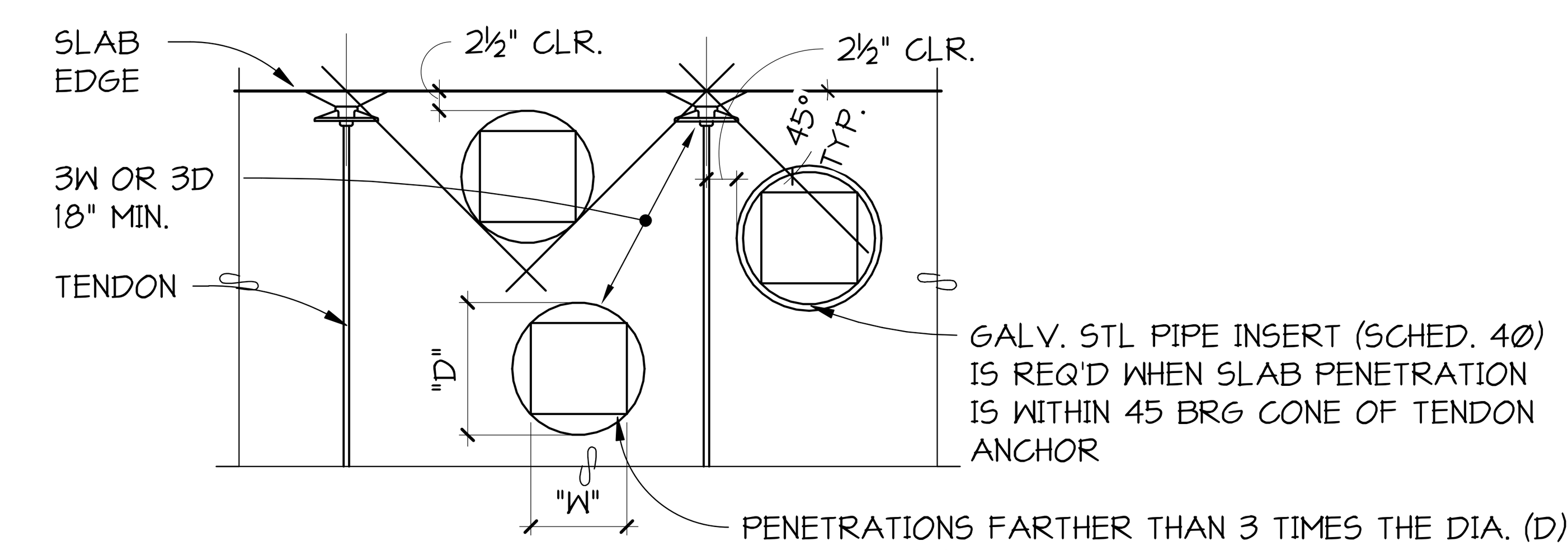


REINF. FOR OPENINGS 6"-24" IN SLAB

SINGLE OPENINGS OF SMALLER DIMENSION DO NOT REQUIRE TRIM BARS.

TYPCIAL TRIM BARS AT SLAB OPENING

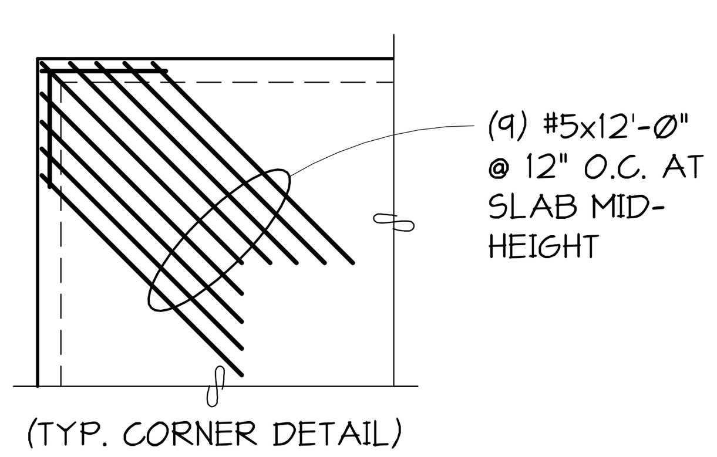
7 PLAN DETAIL
S3.02 NO SCALE



1. PENETRATION WITH DIMENSIONS GREATER THAN 6" REQUIRE TRIM REBAR PER TYPICAL DETAIL.
2. NO CORING OF POST-TENSIONED ALLOWED. ALL PENETRATIONS SHALL BE SLEEVED OR FORMED. PROVIDE REINFORCEMENT PER 6/S3.02 & 7/S3.02.

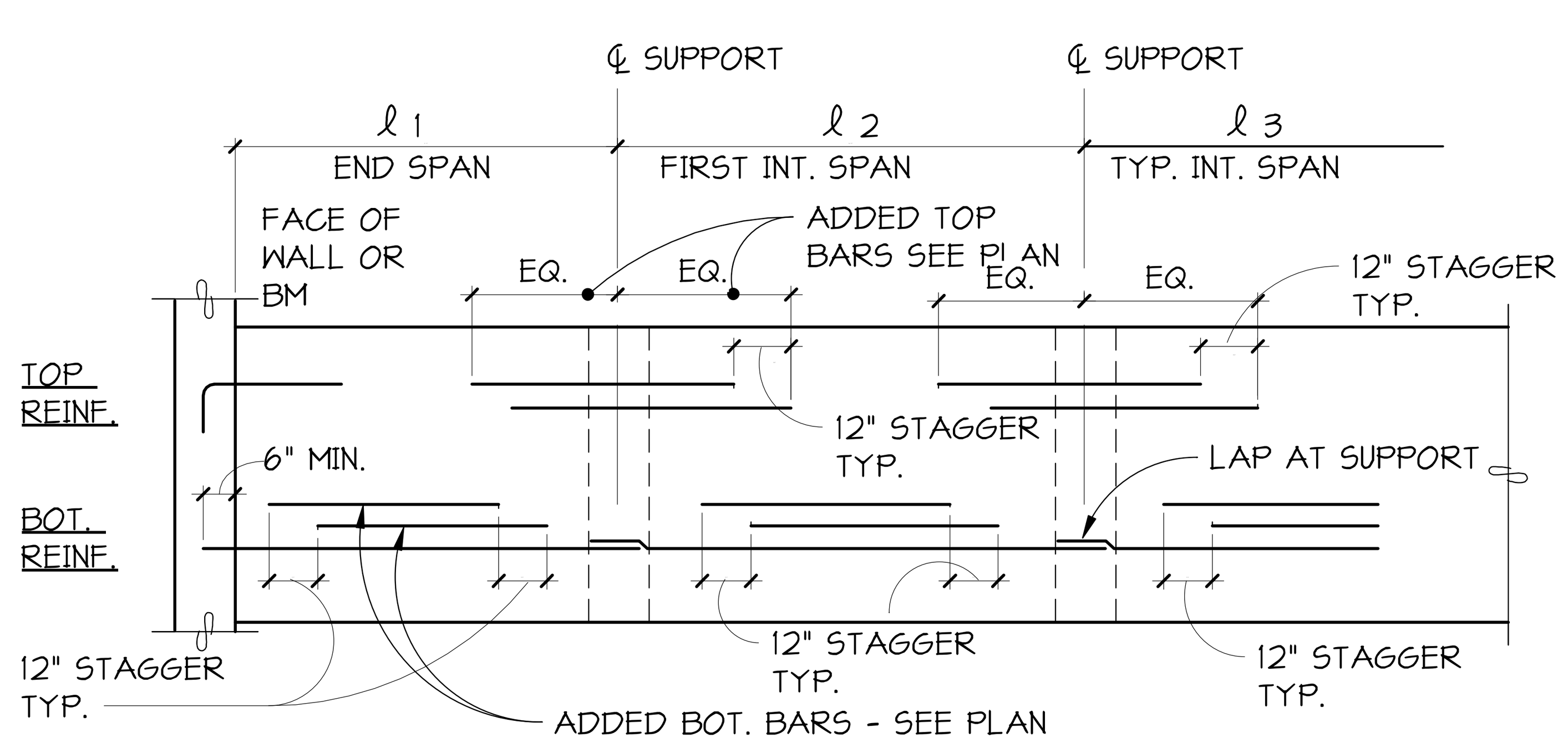
OPENINGS AT PT ANCHOR

8 PLAN DETAIL
S3.02 NO SCALE



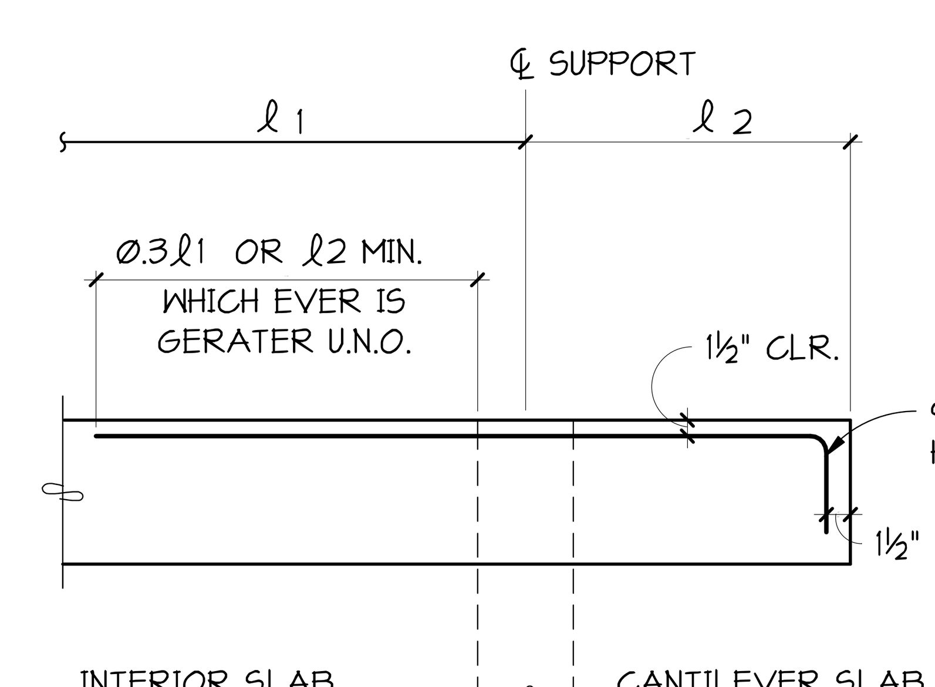
TYPICAL TRIM BAR AT SUPPORTED SLAB EDGES

9 PLAN DETAIL
S3.02 NO SCALE



TYPICAL ARRANGEMENT OF SLAB BARS

10 ELEVATION
S3.02 NO SCALE



11 SECTION
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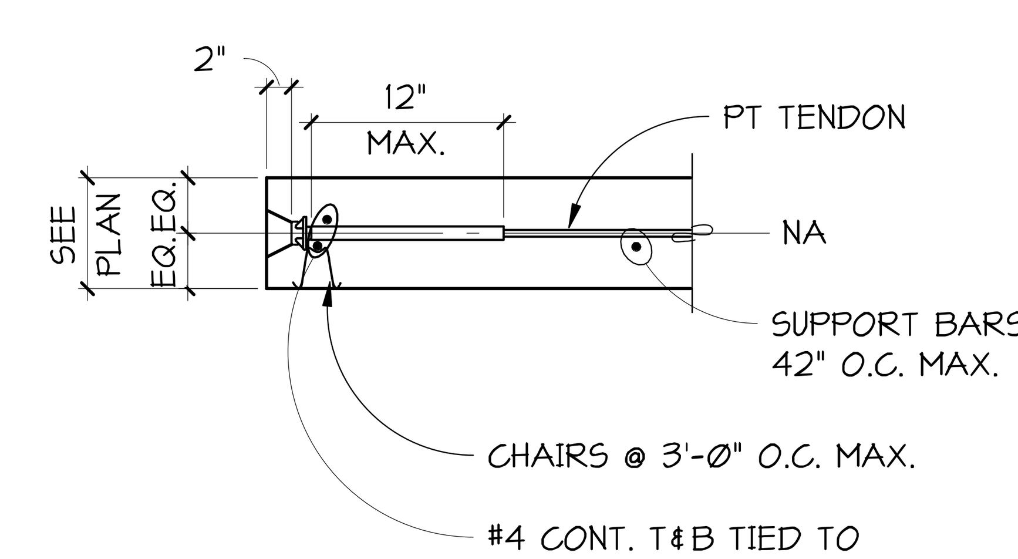

DEAD END AT DISTRIBUTED TENDONS

12 SECTION
S3.02 NO SCALE

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TWO WAY PT DETAILS

S3.02

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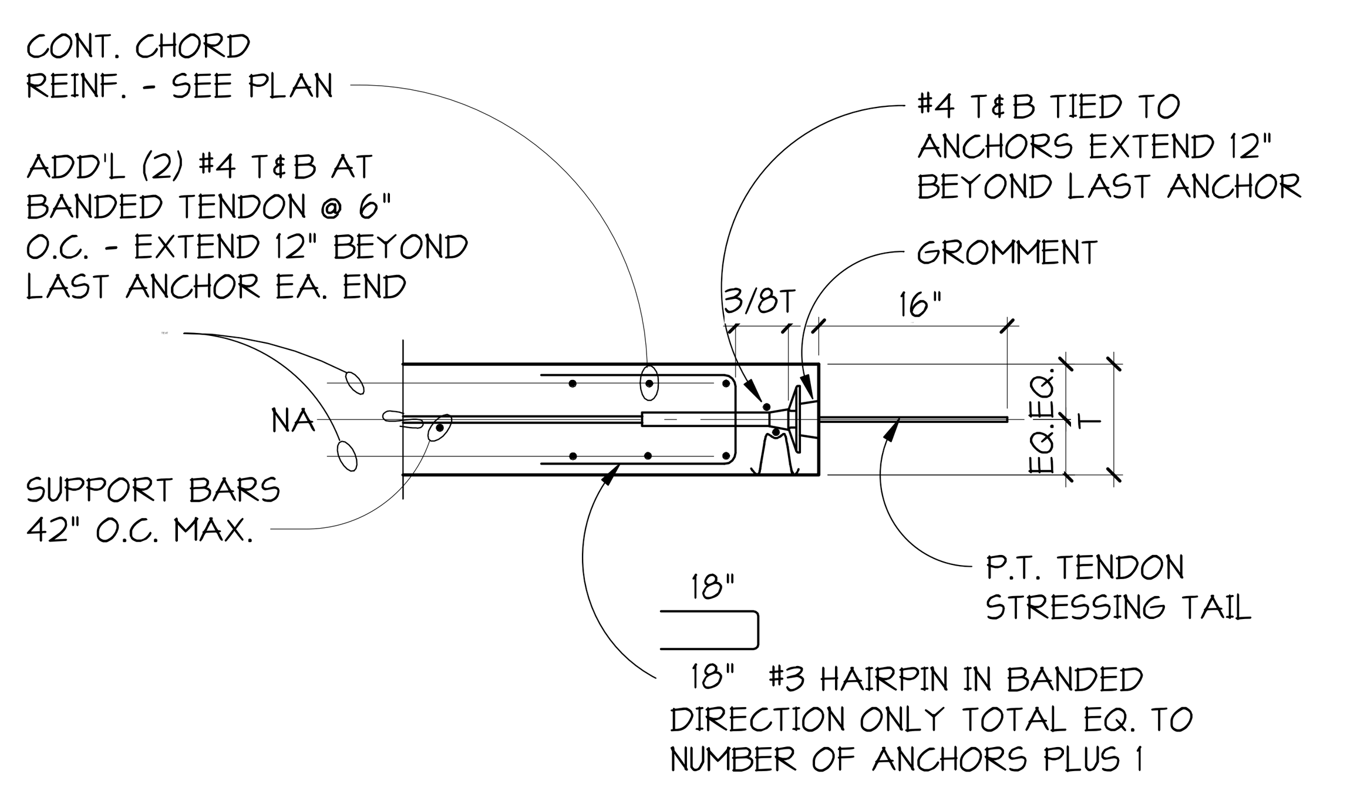
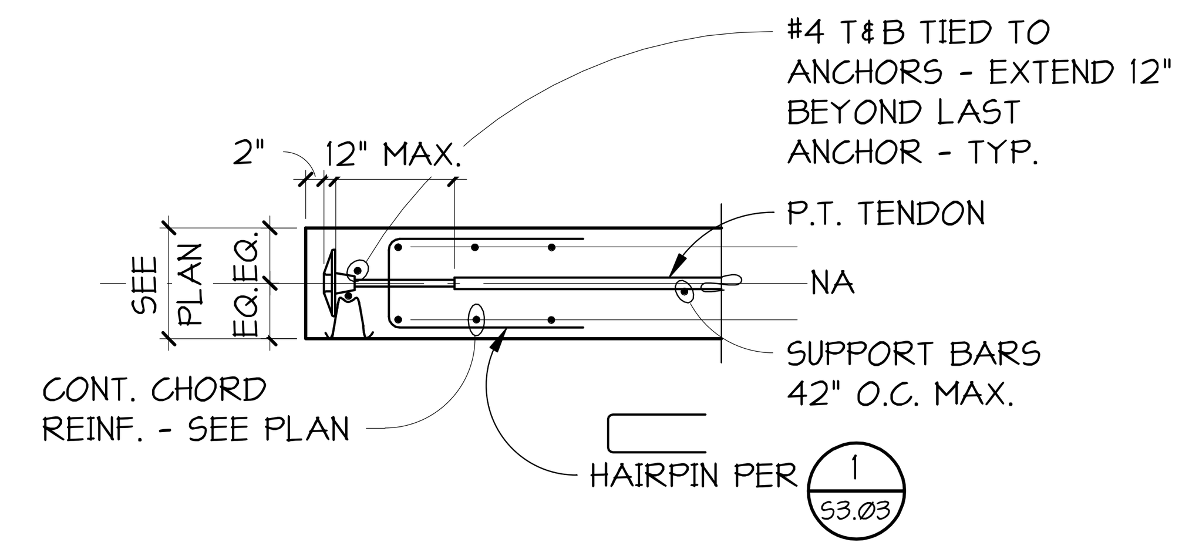


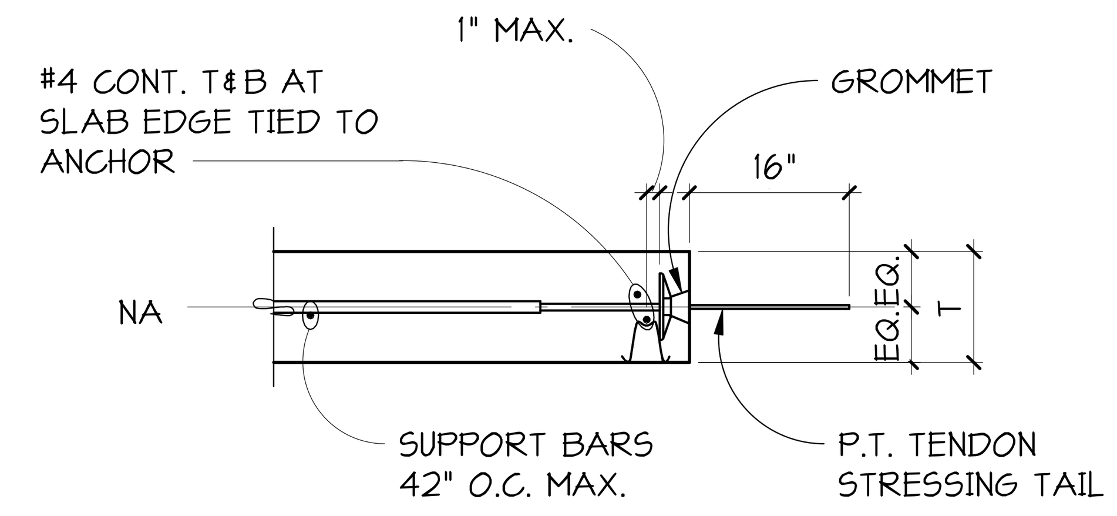
STRESSING END ANCHOR AT BANDED TENDONS

1 S3.03 **SECTION**
NO SCALE



DEAD END AT BANDED TENDONS

2 S3.03 **SECTION**
NO SCALE



STRESSING END ANCHOR AT DISTRIBUTED TENDONS

3 S3.03 **SECTION**
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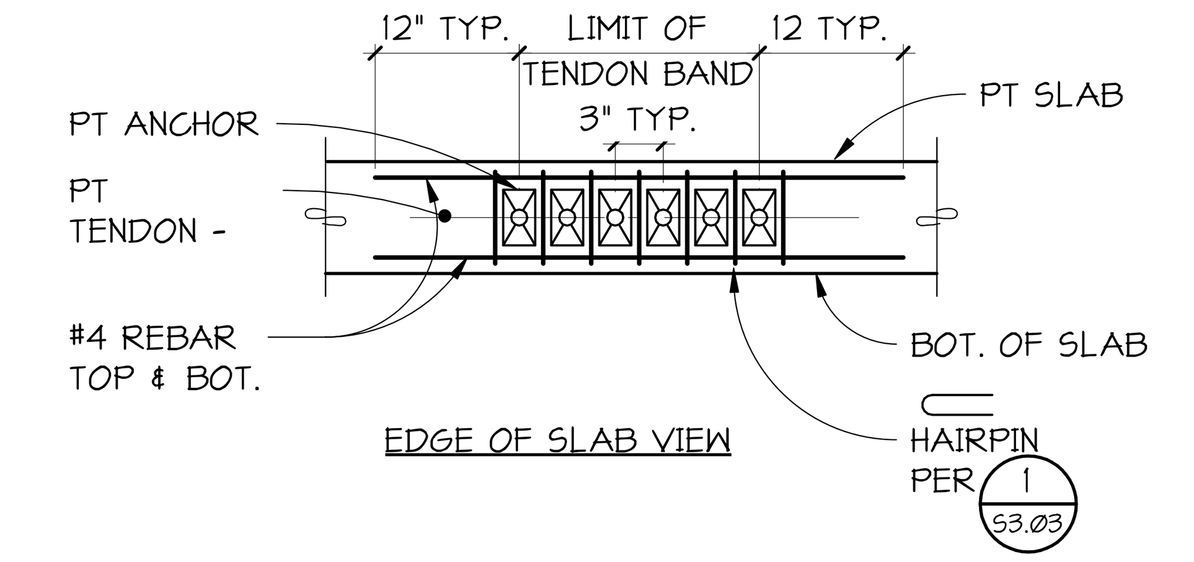
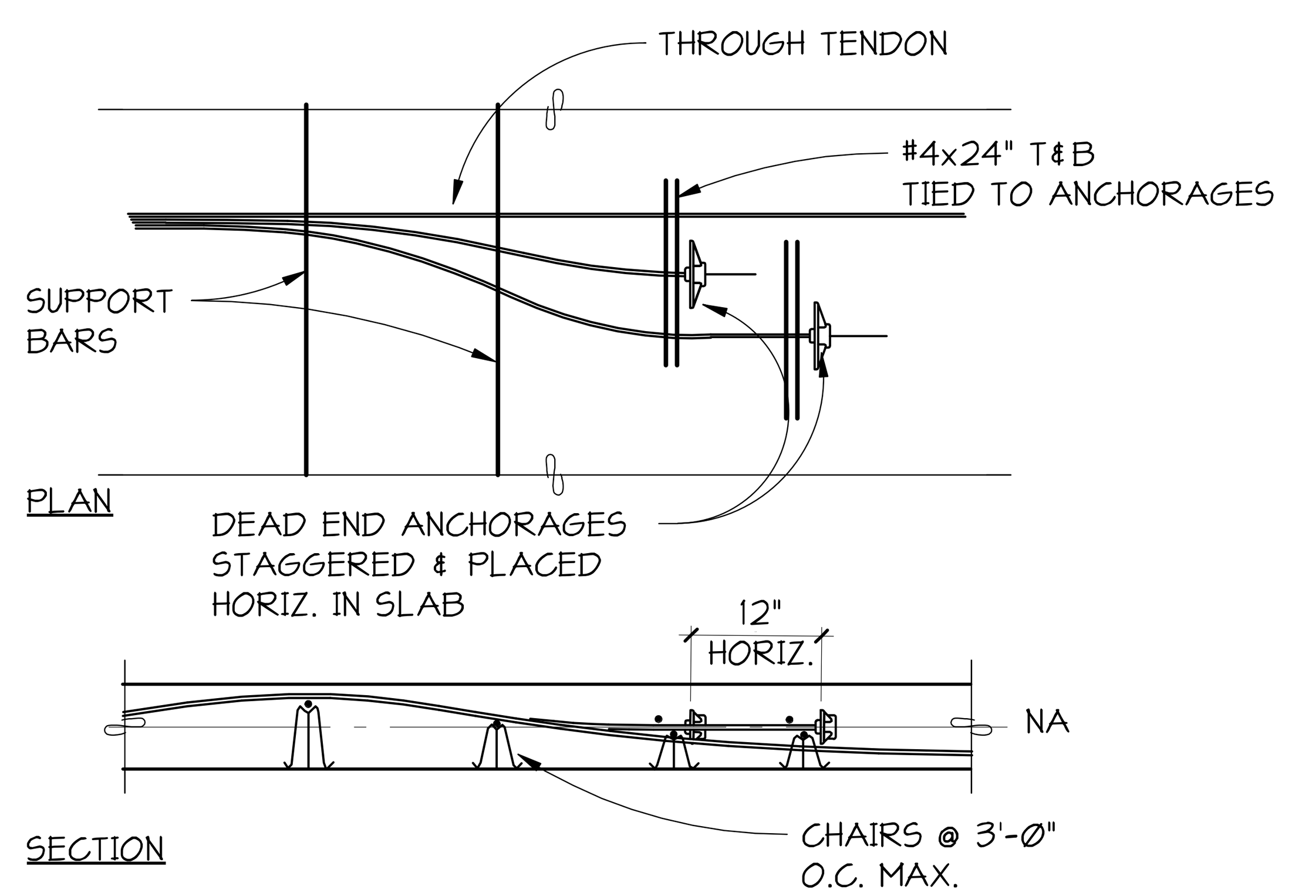


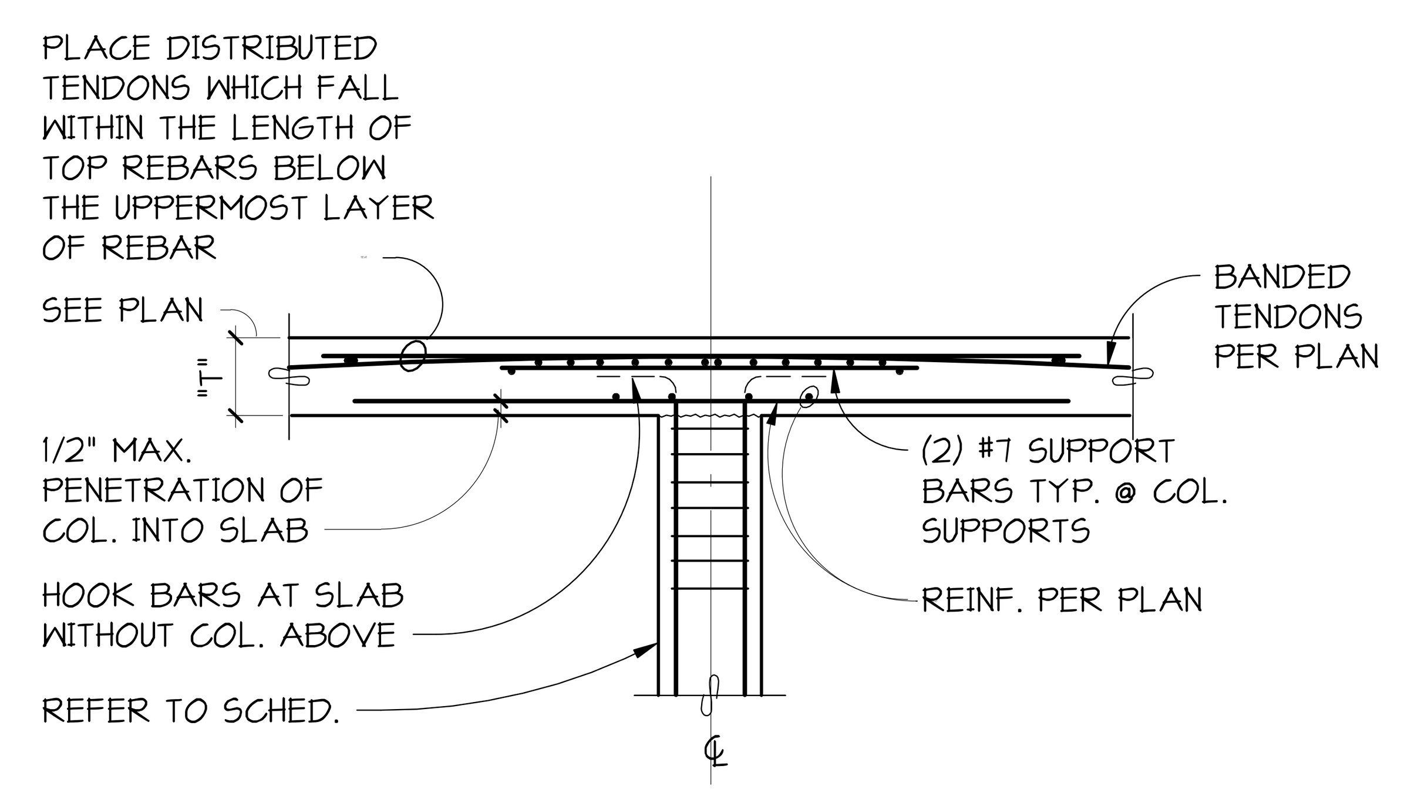
TYPICAL REINFORCEMENT OF TENDON BAND AT SLAB EDGES

4 S3.03 **SECTION**
NO SCALE



TYPICAL PLACEMENT OF ADDED TENDON

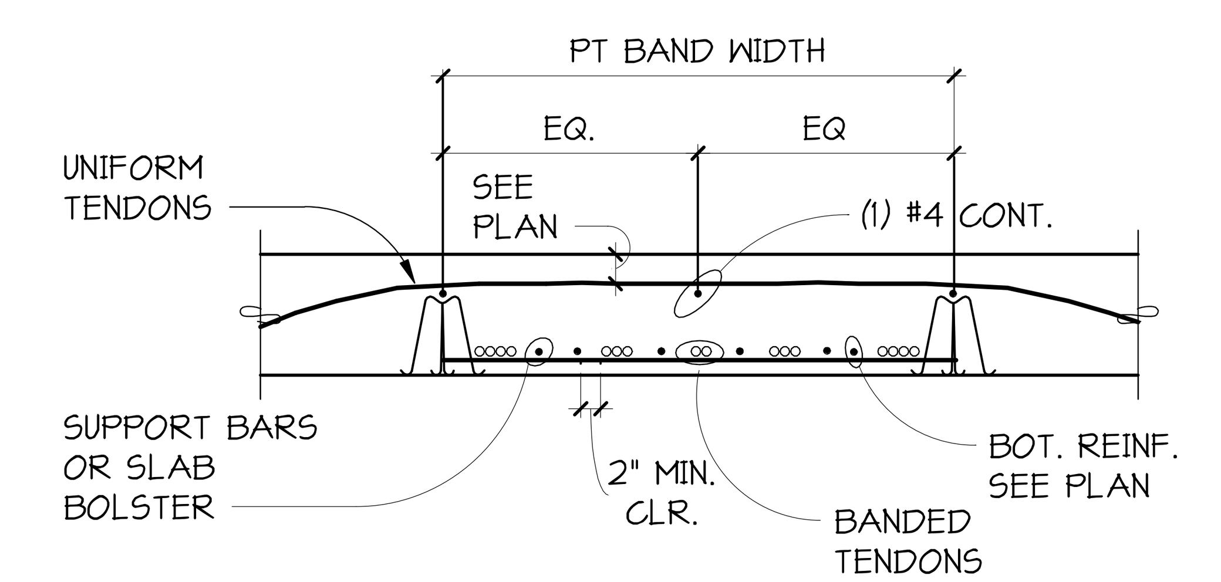
5 S3.03 **DETAIL**
NO SCALE



NOTES:
1. SEE PLAN DETAIL FOR COLUMN REINFORCMENT DETAILS
2. AT EXTERIOR AND CORNER COLUMNS PROVIDE 90° STD HOOK WHERE BARS CANNOT BE EXTENDED THROUGH COLUMN

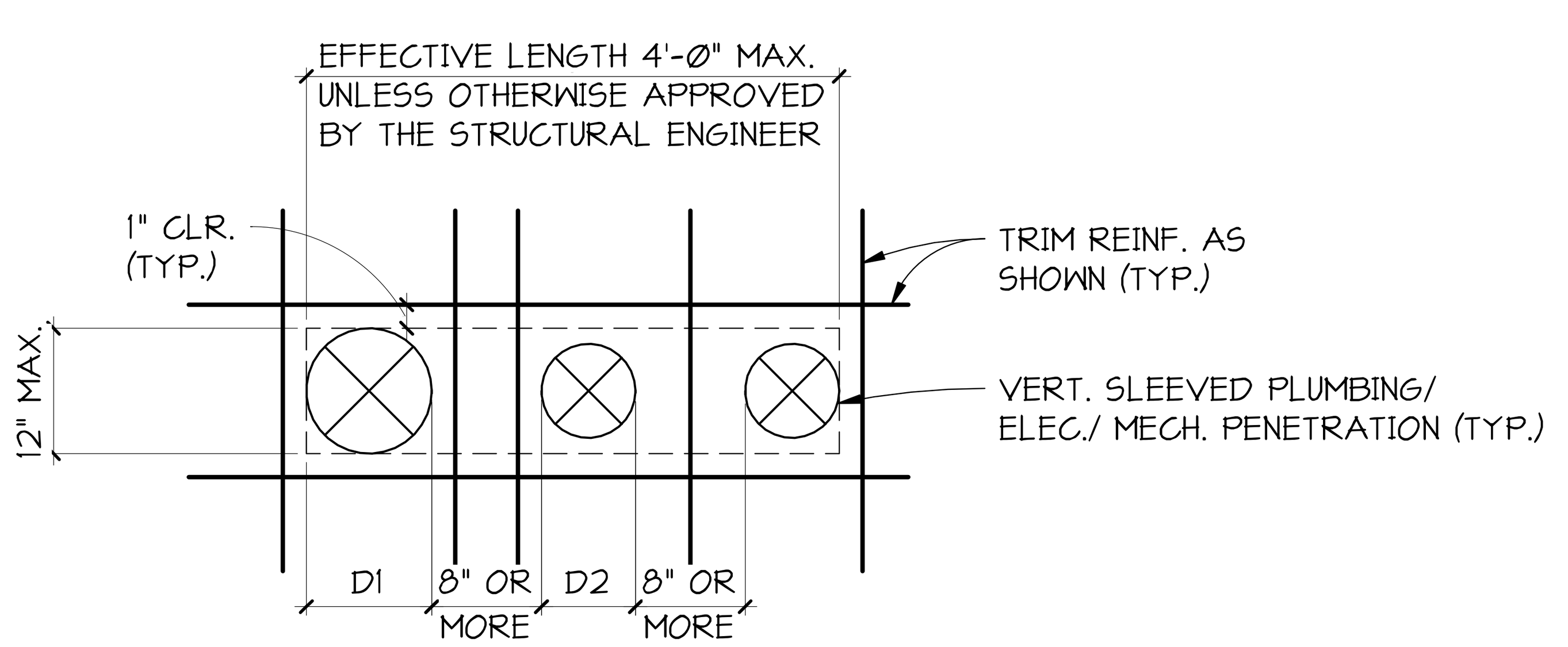
TYPICAL COLUMN - SLAB SECTION

6 S3.03 **SECTION**
NO SCALE



BANDED TENDONS AT MID-SPAN

7 S3.03 **SECTION**
NO SCALE

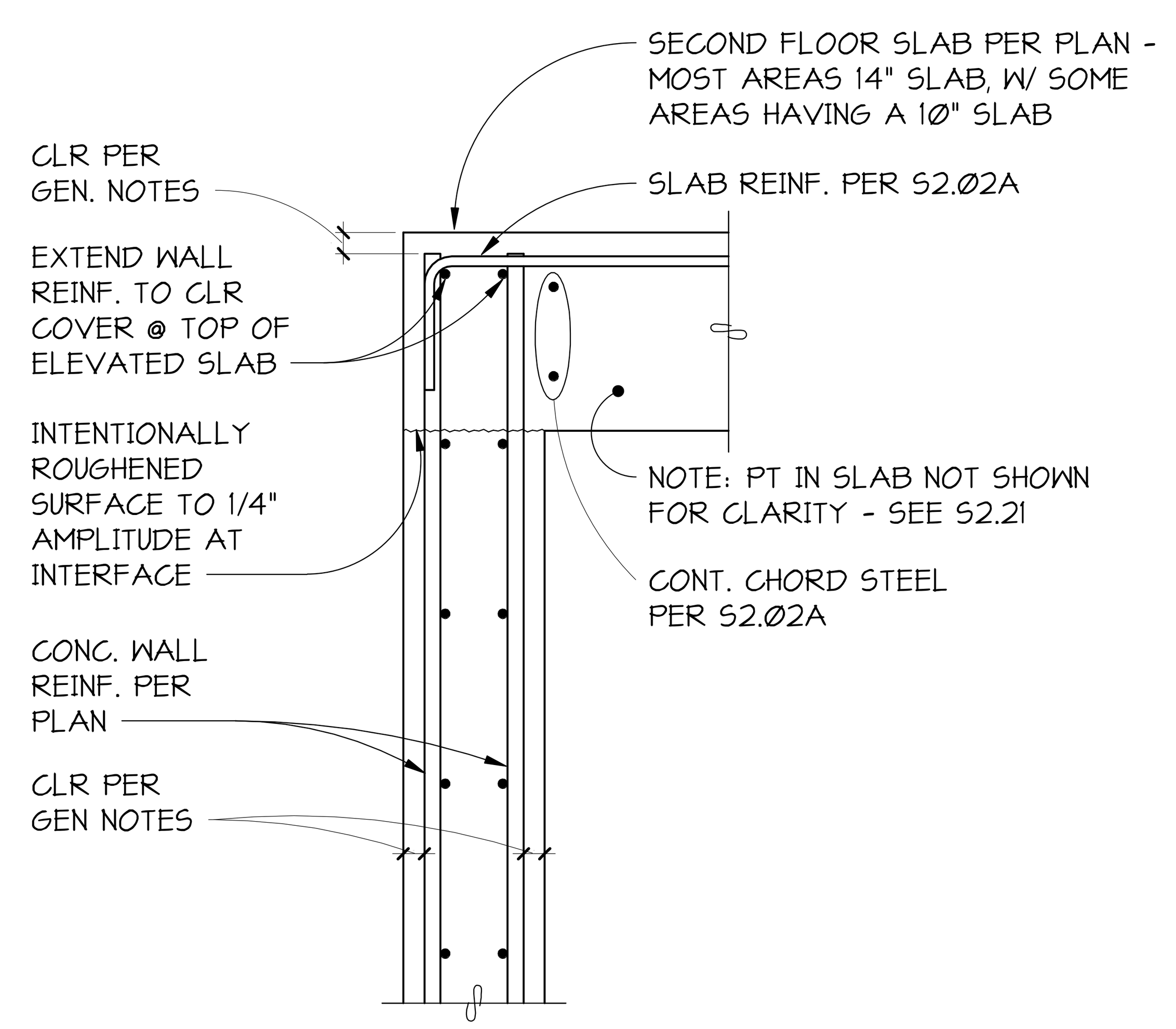


NOTE:
VERTICAL SLEEVES WHICH ARE EQUAL TO OR LESS THAN 16" O.C. ARE CONSIDERED TO FORM A COMBINED OPENING.

- PROVIDE (1) #5 TOP AND BOTTOM WITH 1'-6" EMBEDMENT PAST THE OPENING.
- IF EFFECTIVE LENGTH OF COMBINED OPENING IS LARGER THAN 24" PROVIDE TRIM REINFORCEMENT
- NO DIAGINAL BARS ARE REQUIRED AT ROUND VERTICAL SLEEVES.
- MULTIPLE VERTICAL SLEEVES ARE NOT TO BE LOCATED AT BANDED TENDON LOCATIONS.

TRIM BARS FOR MULTIPLE VERTICAL SLEEVED CONDUIT PENETRATIONS

8 S3.03 **DETAIL**
NO SCALE



TYPICAL TOP-OF-WALL CONN. TO CONC. SLAB

9 S3.03 **SECTION**
NO SCALE

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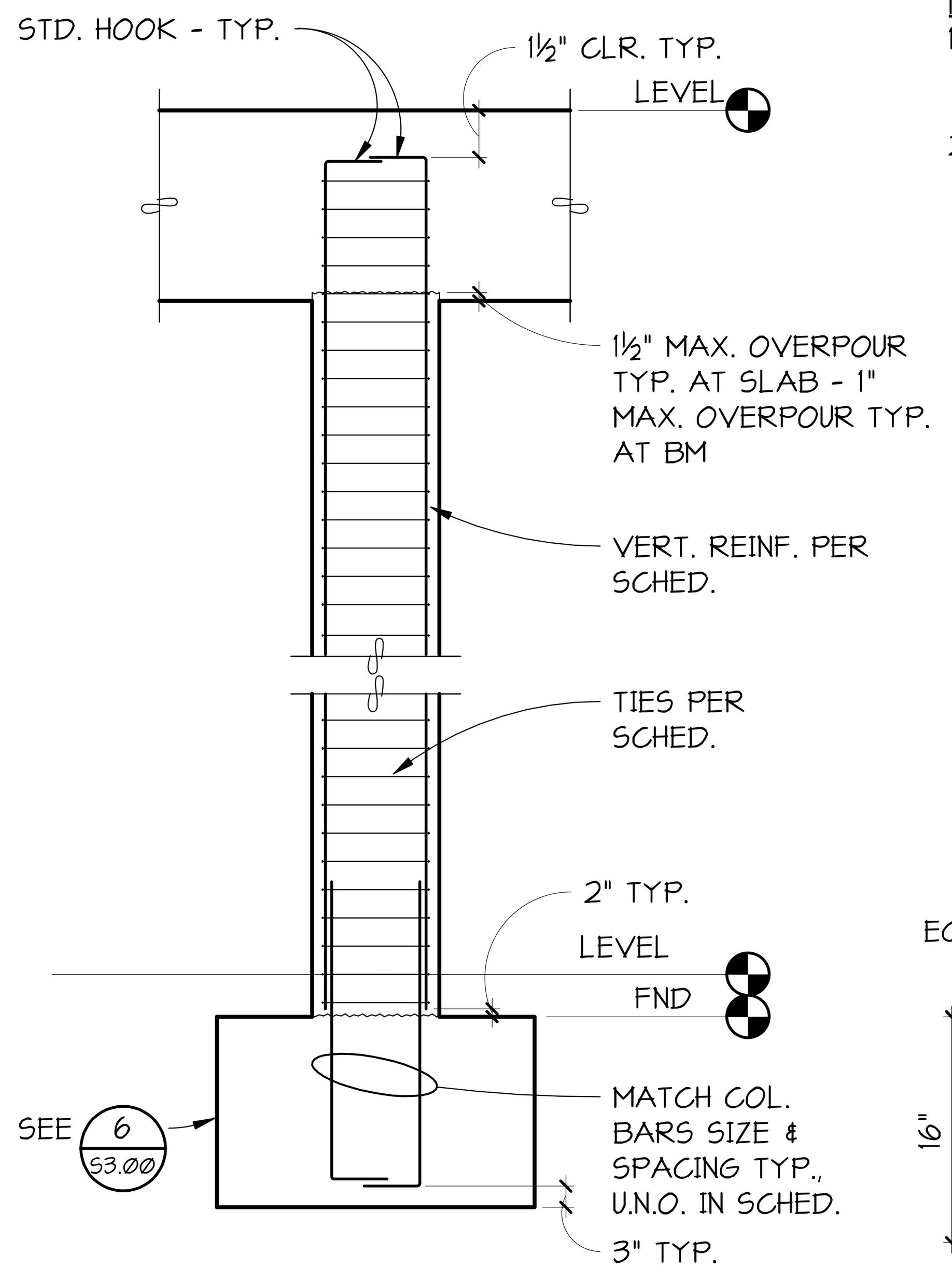
TWO WAY PT DETAILS

S3.03

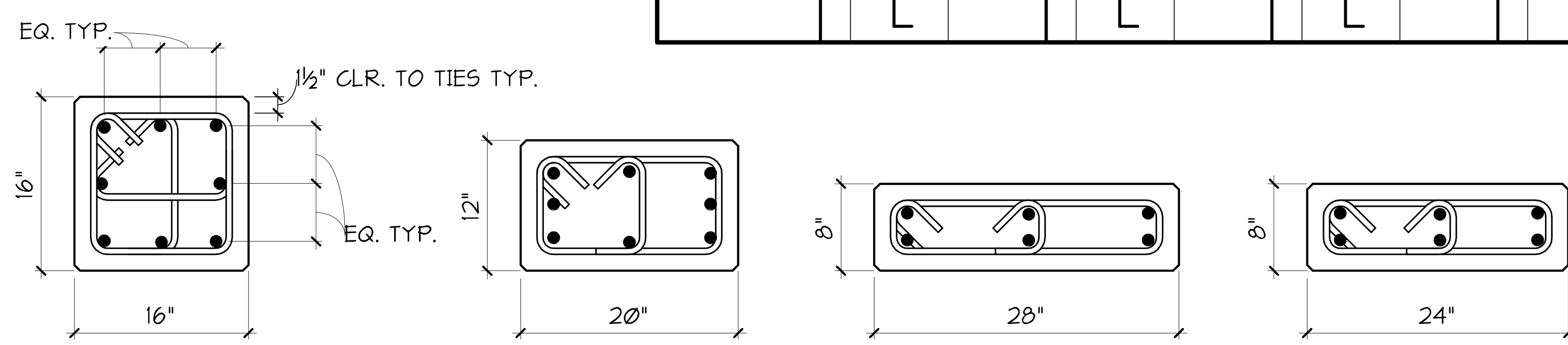


TYPICAL GRAVITY COLUMN DETAILS

NOTES:
1. ALL CONCRETE COLUMNS STOP AT PODIUM LEVEL.
2. FOR SHEAR STUD REINFORCING AT TOP OF COLUMN TO SLAB, SEE 2/S3.04.

GRAVITY COLUMN REINFORCING SCHEDULE

MARK / LEVEL	C1 VERTS	C1 HORIZ.	C2 VERTS	C2 HORIZ.	C3 VERTS	C3 HORIZ.	C4 VERTS	C4 HORIZ.
	16x16		12x20		8x28		8x24	
SECOND FLR. – FDN	(8) #8	#5 @ 6" O.C.	(8) #8	#5 @ 5" O.C.	(6) #8	#5 @ 5" O.C.	(6) #8	#5 @ 5" O.C.



C1
16"x16" COLUMN

C2
12"x20" COLUMN

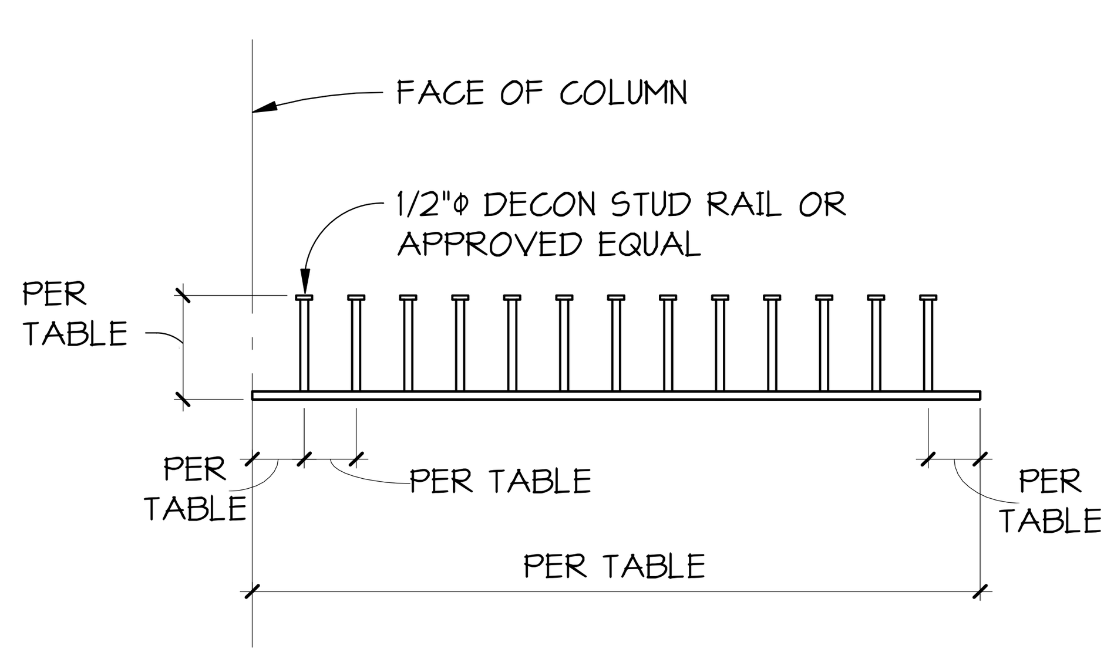
C3
12"x28" COLUMN

C4
8"x24" COLUMN

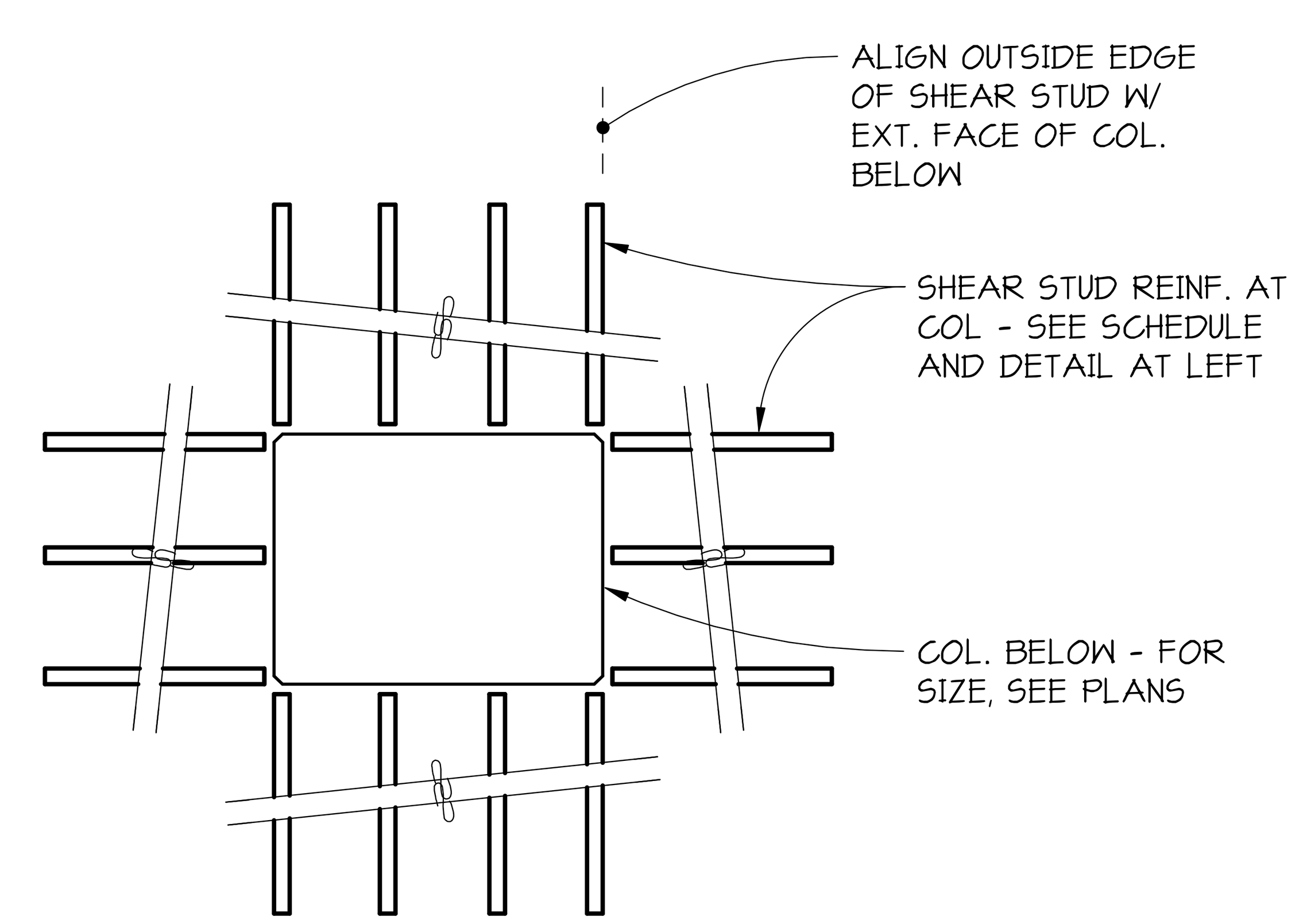
1 S3.04 DETAIL
NO SCALE

SHEAR STUD REINFORCING SCHEDULE

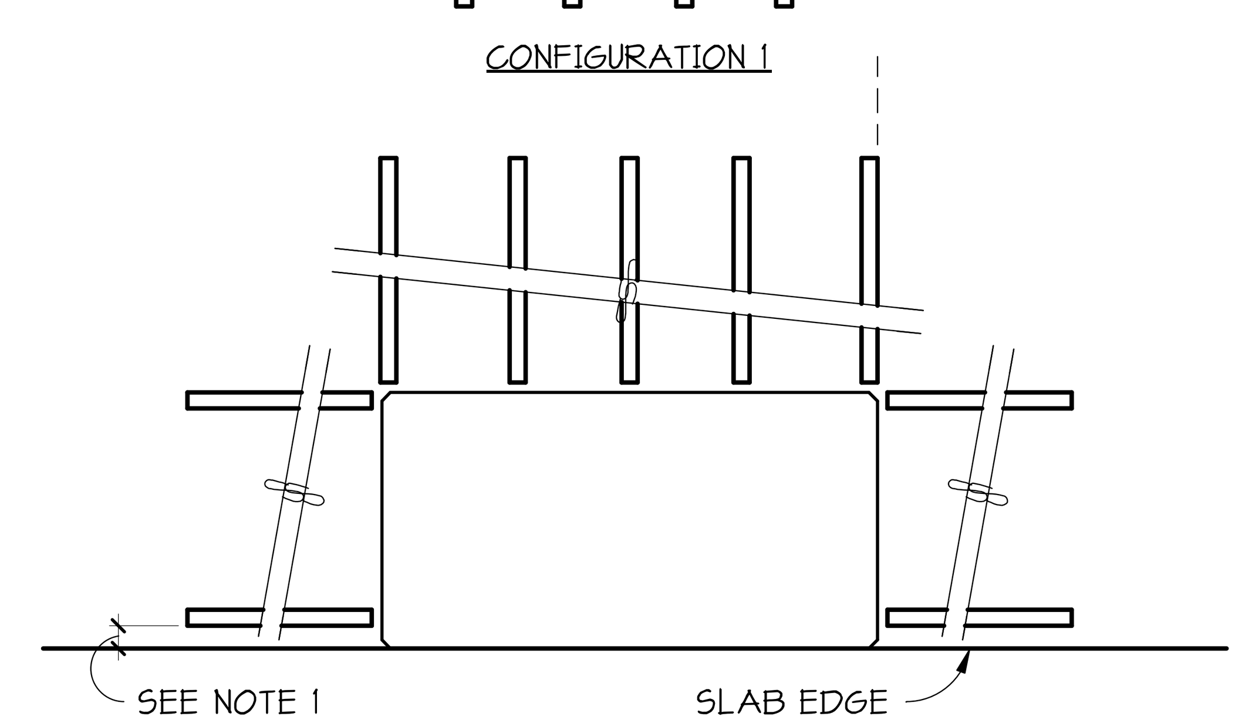
COLUMN TYPE PER COL SCHEDULE	CONFIGURATION	QTY. OF RAILS LONG/SHORT SIDES	OVERALL SHEAR STUD LENGTH	END SPACING/ TYP. SPACING	# OF STUDS PER STUD RAIL	STUD RAIL DIAMETER	STUD RAIL HEIGHT
C1	1	2 / 2	47"	4" / 3"	14	1/2"φ	10"
C2	1 OR 2 PER PLAN	3 / 2	32"	4" / 3"	9	1/2"φ	10"
C3	2	3 / 2	32"	4" / 3"	9	1/2"φ	10"
C4	1 OR 2 PER PLAN	3 / 2	26"	4" / 3"	7	1/2"φ	10"



NOTES: 1) PROVIDE 2" CLEAR SPACING MINIMUM FROM SLAB EDGES.
2) PROVIDE 3/4" CLEAR TOP AND BOTTOM.



CONFIGURATION 1



CONFIGURATION 2

TYPICAL STUD RAIL LAYOUT AT SECOND FLOOR

2 S3.04 DETAIL
NO SCALE

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CONCRETE COLUMN SCHEDULE

S3.04

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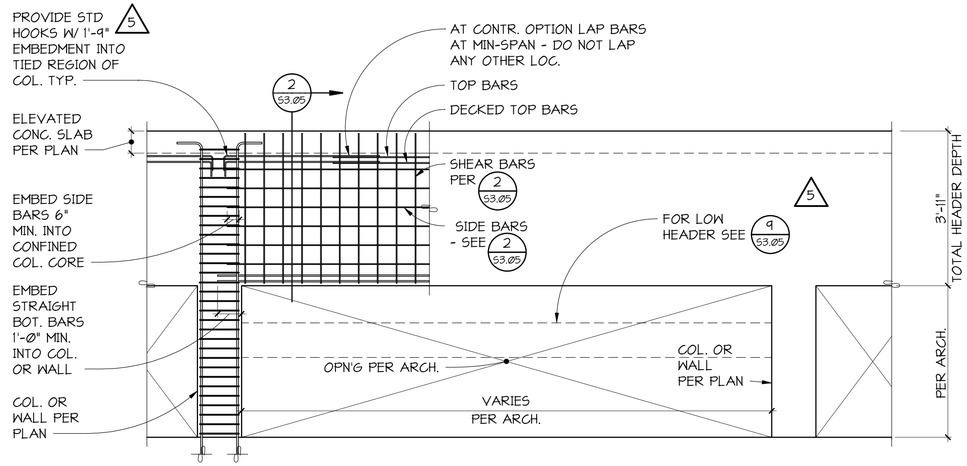
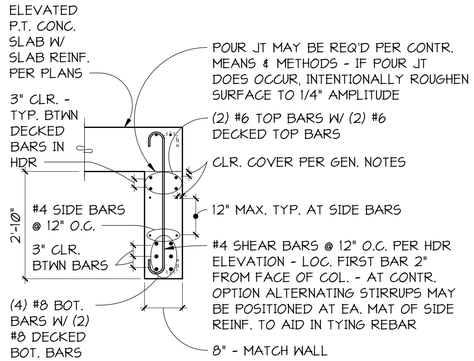


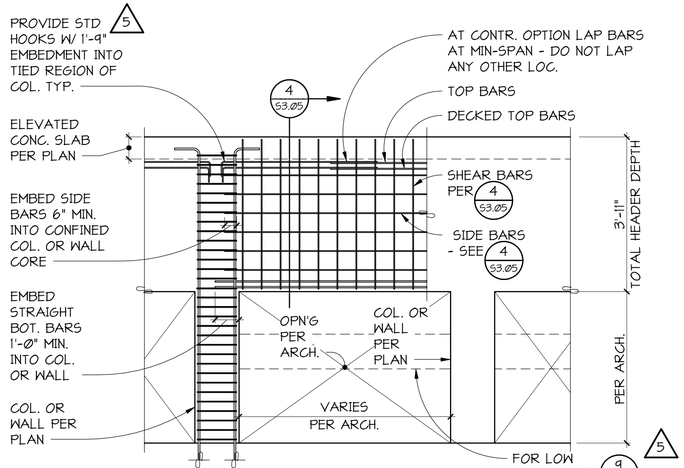
TYPICAL HEADER BEAM AT SOUTH FACE NEAR / ON GRIDLINE A

1 S3.05 **ELEVATION** NO SCALE



TYPICAL HEADER BEAM SECTION AT SOUTH FACE NEAR / ON GRIDLINE A

2 S3.05 **SECTION** NO SCALE



TYPICAL HEADER BEAM AT EAST, WEST & NORTH FACES OF BUILDING

3 S3.05 **ELEVATION** NO SCALE

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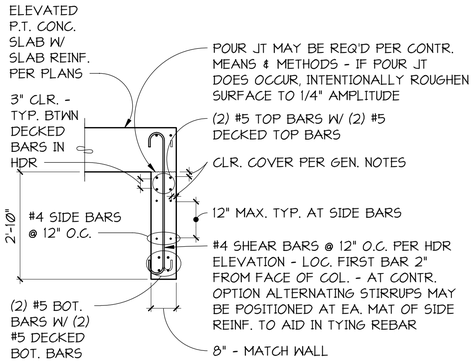
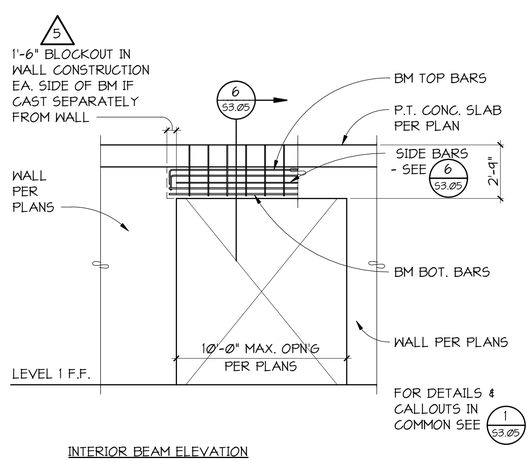


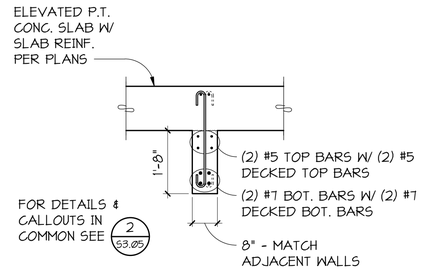
TYPICAL HEADER BEAM SECTION AT EAST & WEST FACES OF BUILDING

4 S3.05 **SECTION** NO SCALE



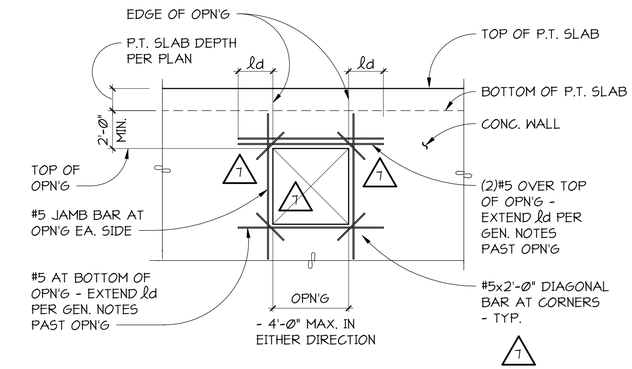
INTERIOR BEAM ELEVATION

5 S3.05 **ELEVATION** NO SCALE



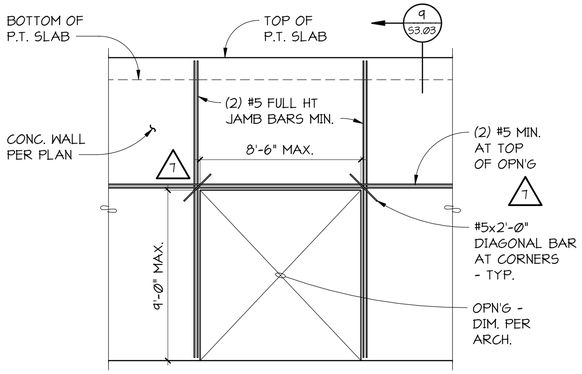
BEAM SECTION OF INTERIOR BEAM

6 S3.05 **SECTION** NO SCALE



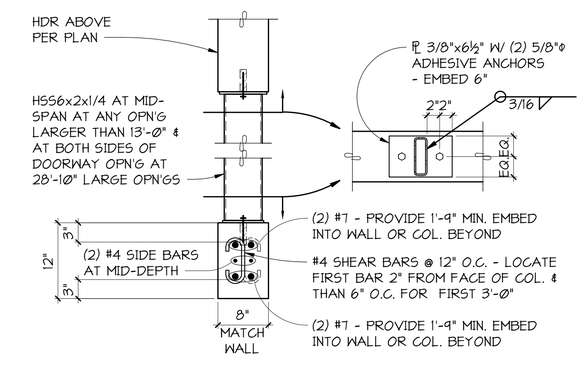
STANDARD OPENING IN CONCRETE WALL GREATER THAN 1'-Ø"

7 S3.05 **ELEVATION** NO SCALE



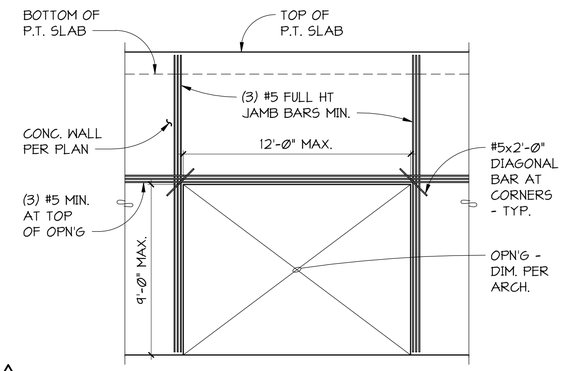
STANDARD DOORWAY OPENING IN CONCRETE WALL

8 S3.05 **ELEVATION** NO SCALE



5 TYPICAL LOW CONCRETE HEADER BEAM

9 S3.05 **SECTION** NO SCALE



7 ELEVATOR DOORWAY OPENING IN CONCRETE WALL

10 S3.05 **SECTION** NO SCALE

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CONCRETE WALL ELEVATIONS AND DETAILS

S3.05

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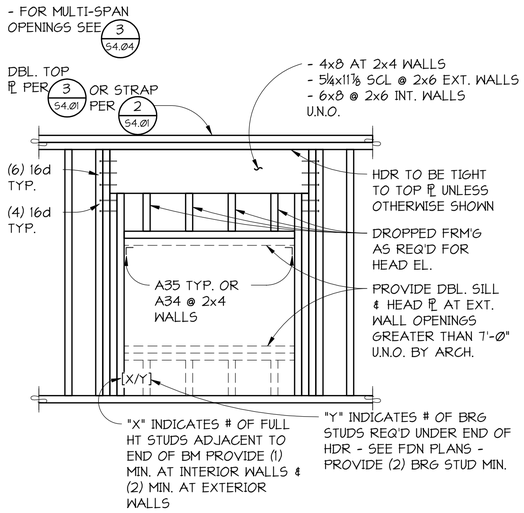
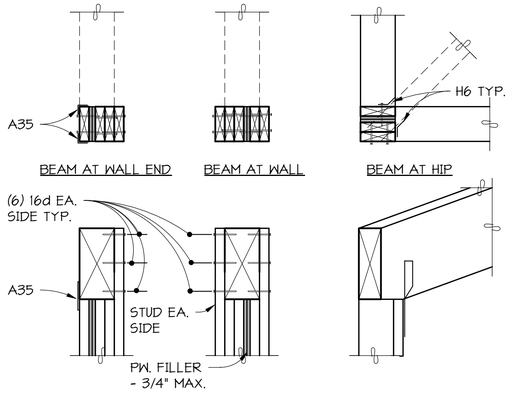


TYPICAL STUD WALL CONSTRUCTION AT HEADER

1/S4.00 SECTION

NO SCALE



TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

2/S4.00 DETAIL

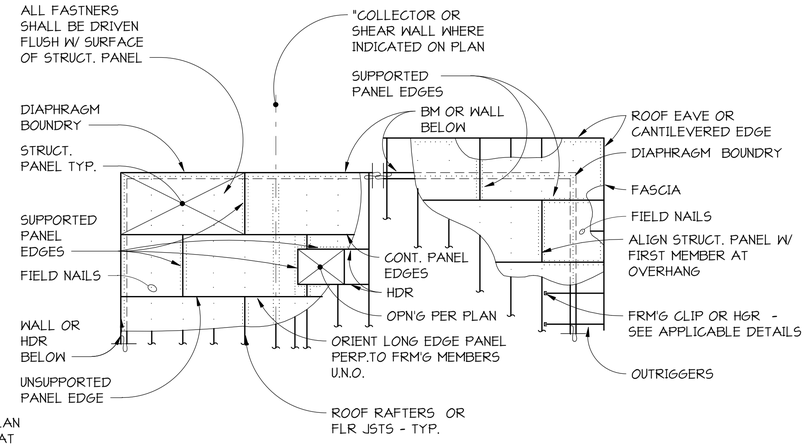
NO SCALE

DIAPHRAGM NAILING SCHEDULE			
DIAPHRAGM TYPE	LOCATION	NAILS	SPACING
FLOOR DIAPHRAGM 23/32" T&G SHEATHING UNBLOCKED UNLESS NOTED ON PLAN	DIAPHRAGM BOUNDRY	10d	6" O.C.
	FIELD NAILS	10d	12" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.
ROOF DIAPHRAGM 23/32" T&G SHEATHING UNBLOCKED UNLESS NOTED ON PLAN	DIAPHRAGM BOUNDRY	10d	6" O.C.
	FIELD NAILS	10d	10" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.

NOTES:

1. PROVIDE (2) ROWS OF SPECIFIED DIAPHRAGM BOUNDRY NAILING OVER INTERIOR SHEAR WALLS AND THE FULL LENGTH OF "COLLECTORS" WHERE INDICATED ON PLAN.

2. WHERE BLOCKED DIAPHRAGM INDICATED ON PLAN PROVIDE 2x4 FLATWISE BLOCKING WITH "Z2" CLIPS AT EACH END AT ALL UNSUPPORTED PANEL EDGES. USE 2x4 SCL FLATWISE BLOCKING IN LIEU OF SOLID SAWN WHERE NAILING SIZE OR SPACING EXCEEDS 10d AT 4" ON CENTER.



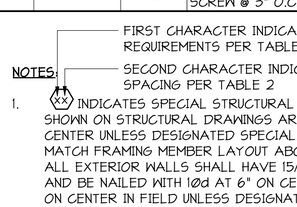
TYPICAL DIAPHRAGM NAILING

3/S4.00 SCHEDULE

NO SCALE

STUD WALL CONSTRUCTION SCHEDULE									
TABLE 1 - SHEAR WALL REQUIREMENTS									
MARK	WALL SHT'G	SIDES W/ SHT'G	SHT'G NAILS note 2	EDGE NAILING O.C.	EDGE FRAMING note 5	FIELD NAILING O.C.	SOLE NAILING	5/8" ANCHOR BOLT SPACING (EMBED 7" MIN.)	RIM/BLOCKING CONNECTOR TO TOP PLATE BELOW
A	15/32"	(1)	10d	6"	2x	12"	16d @ 6" O.C.	48"	A35 @ 16" O.C.
B	15/32"	(1)	10d	4"	3x	12"	16d @ 6" O.C.	32"	A35 @ 8" O.C.
C	15/32"	(1)	10d	3"	3x	12"	16d @ 6" O.C.	16"	A35 @ 8" O.C.
D	15/32"	(1)	10d	2"	3x	12"	1/4"ϕ x 3" SDS SCREW @ 6" O.C.	16"	A35 @ 8" O.C.
E	15/32"	(2)	10d	4"	3x	12"	1/4"ϕ x 3" SDS SCREW @ 3" O.C.	16"	A35 @ 8" O.C.

TABLE 2 - STUD REQUIREMENTS		
MARK	STUD SIZE & SPACING	# STUDS REQ'D AT MEMBER BRG
1	2x6 @ 16" O.C.	(1)
2	2x6 @ 16" O.C.	(2)
3	2x4 @ 16" O.C.	(1)
4	2x4 @ 16" O.C.	(2)
5	2x4 @ 16" O.C.	(3)
6	2x4 @ 16" O.C.	(4)

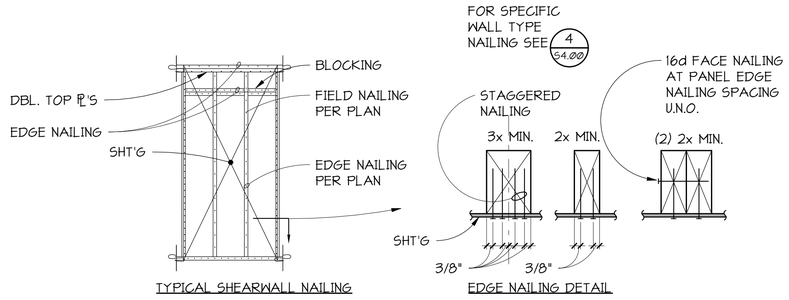


NOTES:

1. XX INDICATES SPECIAL STRUCTURAL WALL TYPE. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.
2. ALL EXTERIOR WALLS AND ALL DESIGNATED SHEAR WALLS SHALL BE BLOCKED AT ALL SHEATHING EDGES. EDGE NAILING APPLIES TO ALL TOP AND BOTTOM PLATES, VERTICAL JOINTS, HORIZONTAL BLOCKED JOINTS, WALL CORNERS, AND HOLDOWN ANCHORED STUDS.
3. WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMN PER 2/S4.00 FOR BEAM PERPENDICULAR TO WALL.
4. [X/X] INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 1/S4.00 FOR BEAM PARALLEL TO WALL.
5. PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 5/S4.00 ARE REQUIRED AT ALL ABUTTING PANEL EDGES WHERE INDICATED.
6. WHERE SOLID SAWN STUD LENGTH CANNOT BE OBTAINED, SCL STUDS MAY BE SUBSTITUTED. SOLID SAWN FRAMING MAY NOT BE SUBSTITUTED FOR SPECIFIED SCL FRAMING.

4/S4.00 SCHEDULE

NO SCALE



NOTES:

1. PANEL EDGE NAILING AND PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
2. SHEATHING JOINT SHALL OCCUR AT COMMON MEMBER UNLESS IT OCCURS AT A SPECIFIED DOUBLE MEMBER.
3. EDGE NAILING AS CALLED FOR ON PLANS AND DETAILS APPLIES TO AREAS INDICATED AND AT HOLDOWN ANCHORED STUDS

5/S4.00 SCHEDULE

NO SCALE

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WALL FRAMING DETAILS

S4.00

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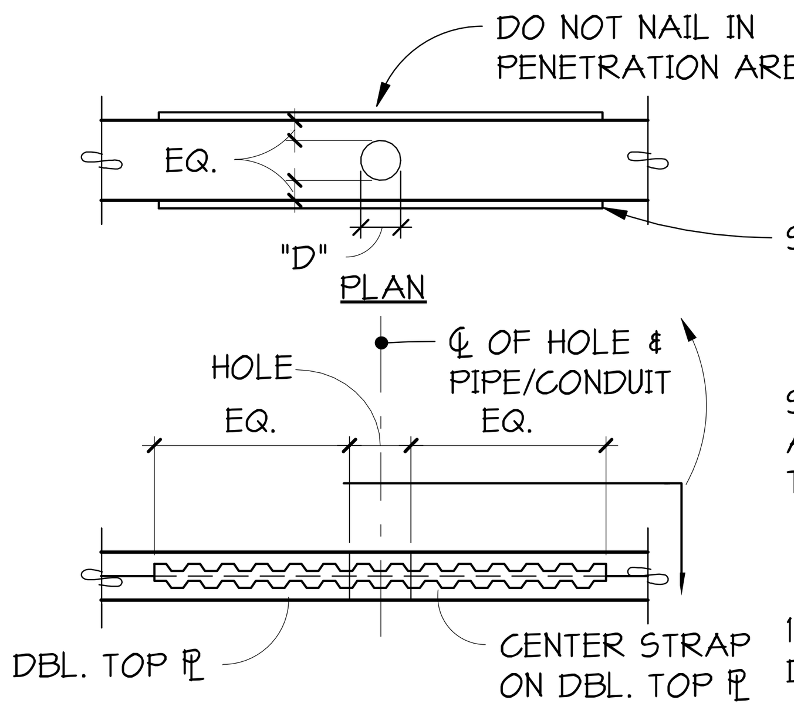
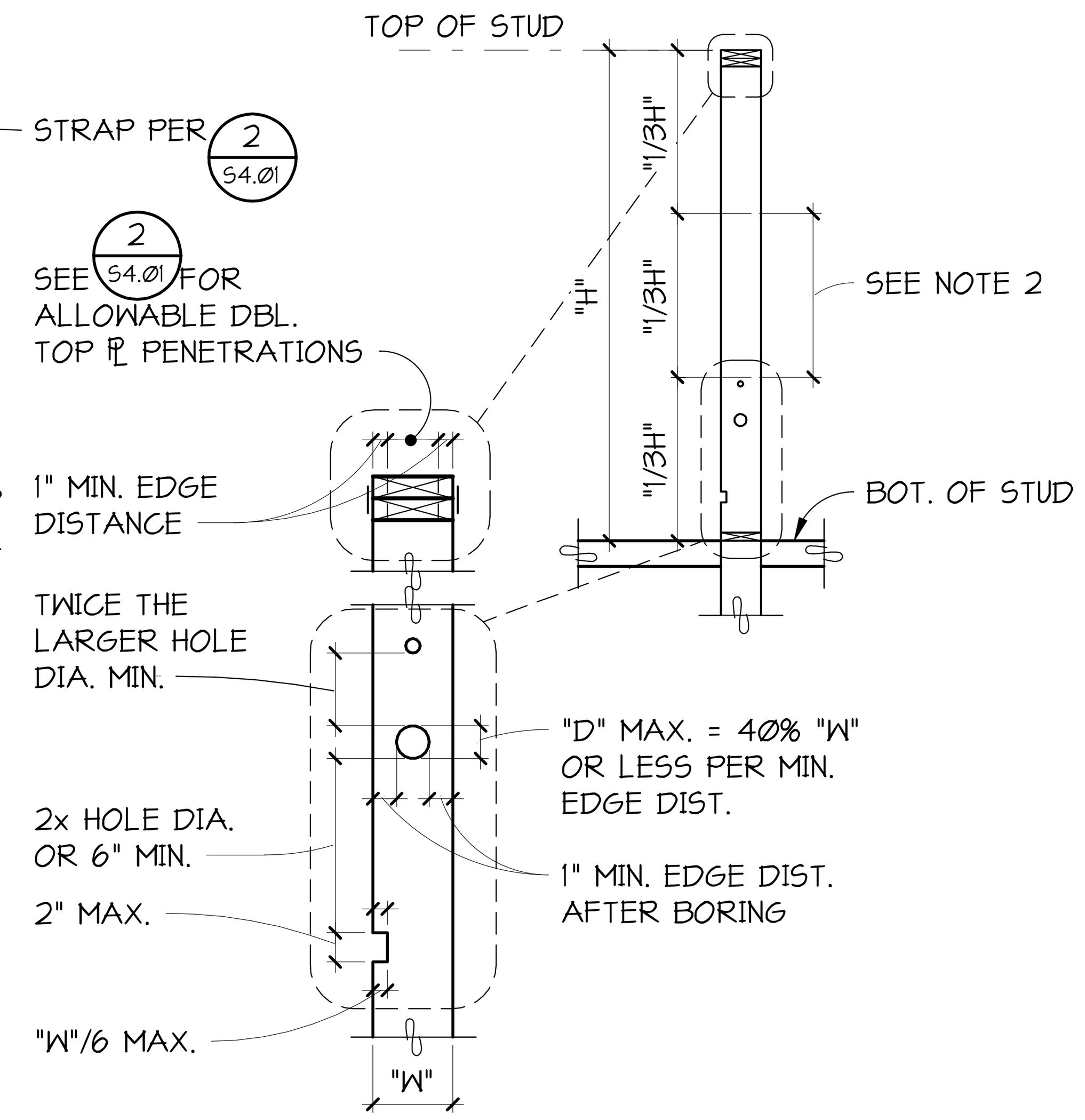


DOUBLE TOP PLATE REINFORCEMENT



NOTES:

1. BORING, CUTTING AND NOTCHING WALL FRAMING OTHER THAN INDICATED HERE REQUIRES PRIOR APPROVAL FROM ENGINEER OF RECORD.
2. BORING, CUTTING AND NOTCHING WITHIN THE MIDDLE 1/3 OF THE STUD HEIGHT IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM A ENGINEER OF RECORD.
3. NOTCHING AS INDICATED IS PERMITTED ON ONE FACE OF THE WALL ALONE.
4. MAXIMUM BORED HOLE DIAMETER IN STUD "D" MAXIMUM LIMITED TO 25% "W" AT BUILT-UP STUDS AND HOLDOWN ANCHORED STUDS.

ALLOWABLE LOAD BEARING/SHEARWALL STUD BORING, CUTTNG, AND NOTCHING

1 DETAIL
S4.01 NO SCALE

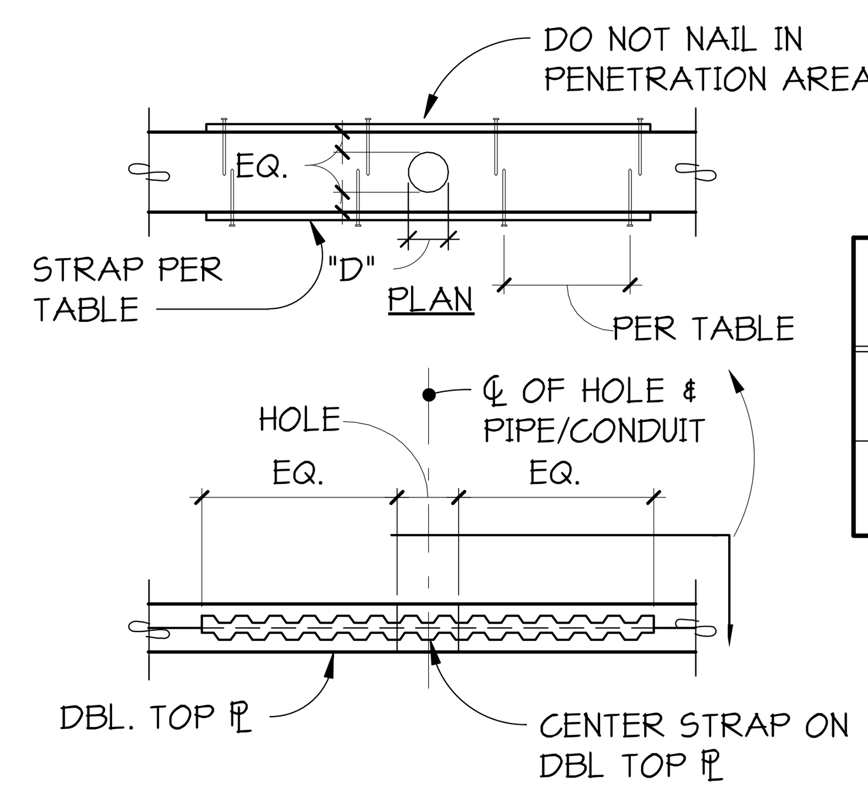
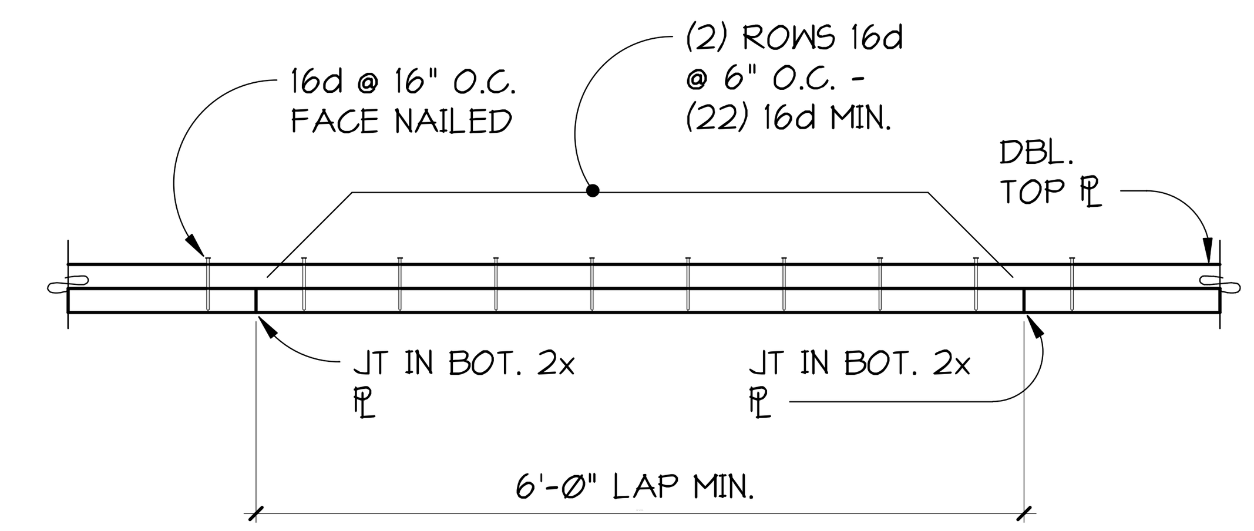


PLATE SIZE	HOLE DIA. "D" INCHES	SIMPSON STRAP
2x4	0" < "D" < 1" 1" ≤ "D" ≤ 2¼"	NO STRAP REQ'D (2) ST2215 W/ (8) 16d EA. END
2x6	0" < "D" < 2½" 2½" ≤ "D" ≤ 3⅝"	NO STRAP REQ'D (2) ST2215 W/ (8) 16d EA. END

- 2x4 1" HOLE = 3200# (Cd=1.0)
- 2x6 2½" HOLE = 3300# (Cd=1.0)
- (2) ST2215 = 2340# (Cd=1.0)
- (2) ST6224 = 3170# (Cd=1.0)

TYPICAL REINF. AT WALL DOUBLE TOP PLATE PENETRATIONS

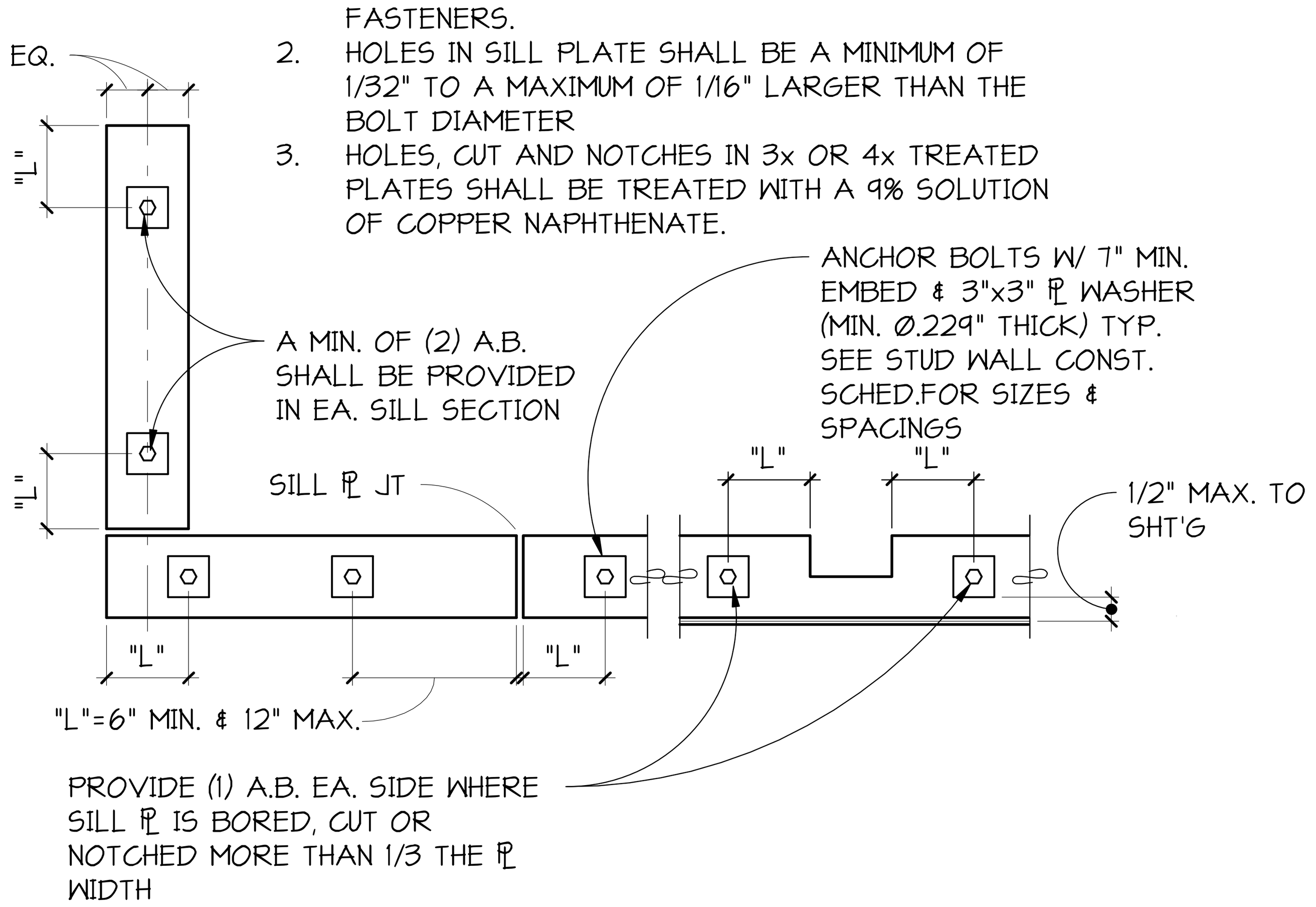
2 DETAIL
S4.01 NO SCALE



3 SECTION
S4.01 NO SCALE

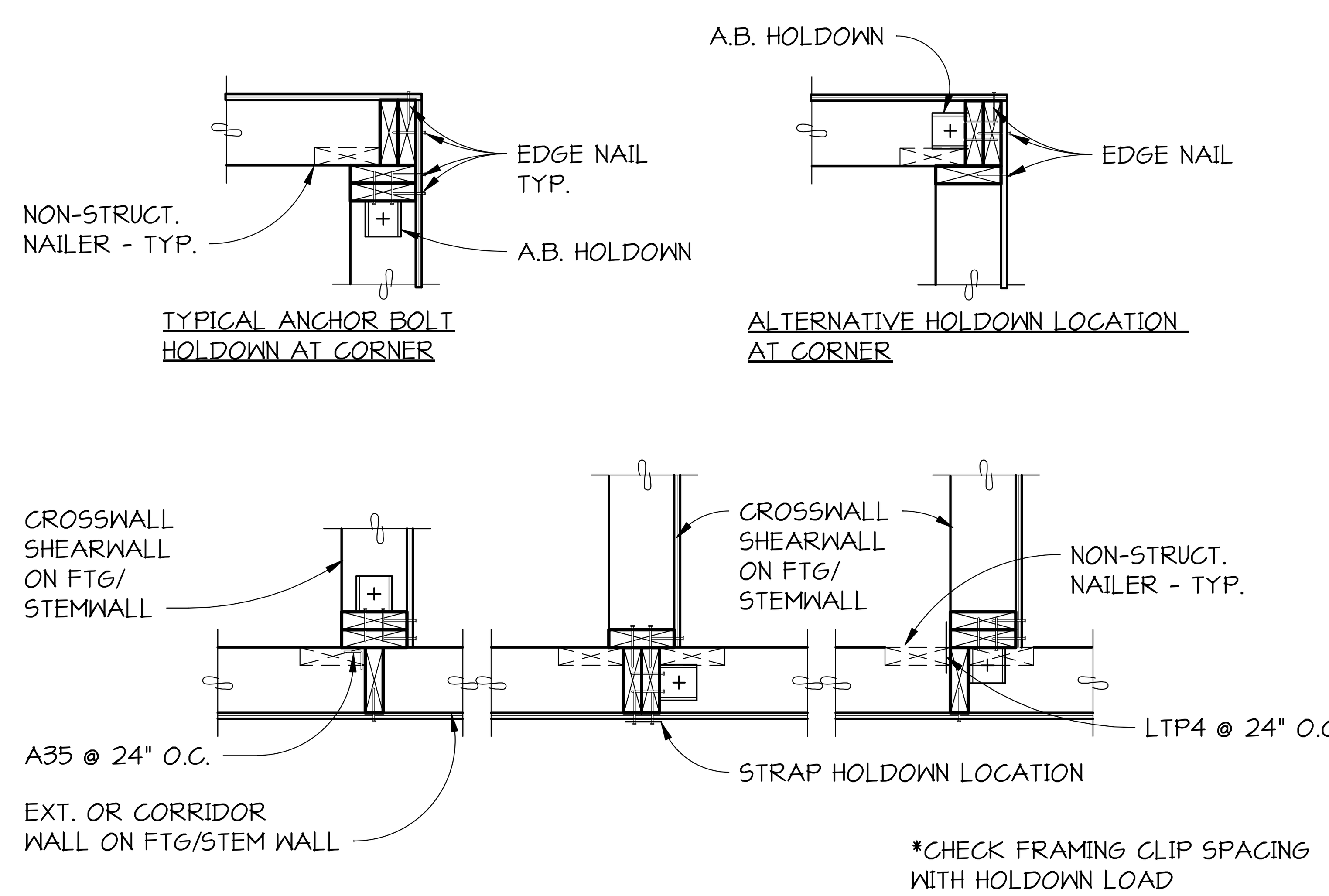
NOTES:

1. SILL PLATE SHALL BE PRESERVATIVE PRESSURE TREATED - REFER TO GENERAL NOTES FOR GALVANIZED REQUIREMENTS FOR CONNECTORS AND FASTENERS.
2. HOLES IN SILL PLATE SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER
3. HOLES, CUT AND NOTCHES IN 3x OR 4x TREATED PLATES SHALL BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE.



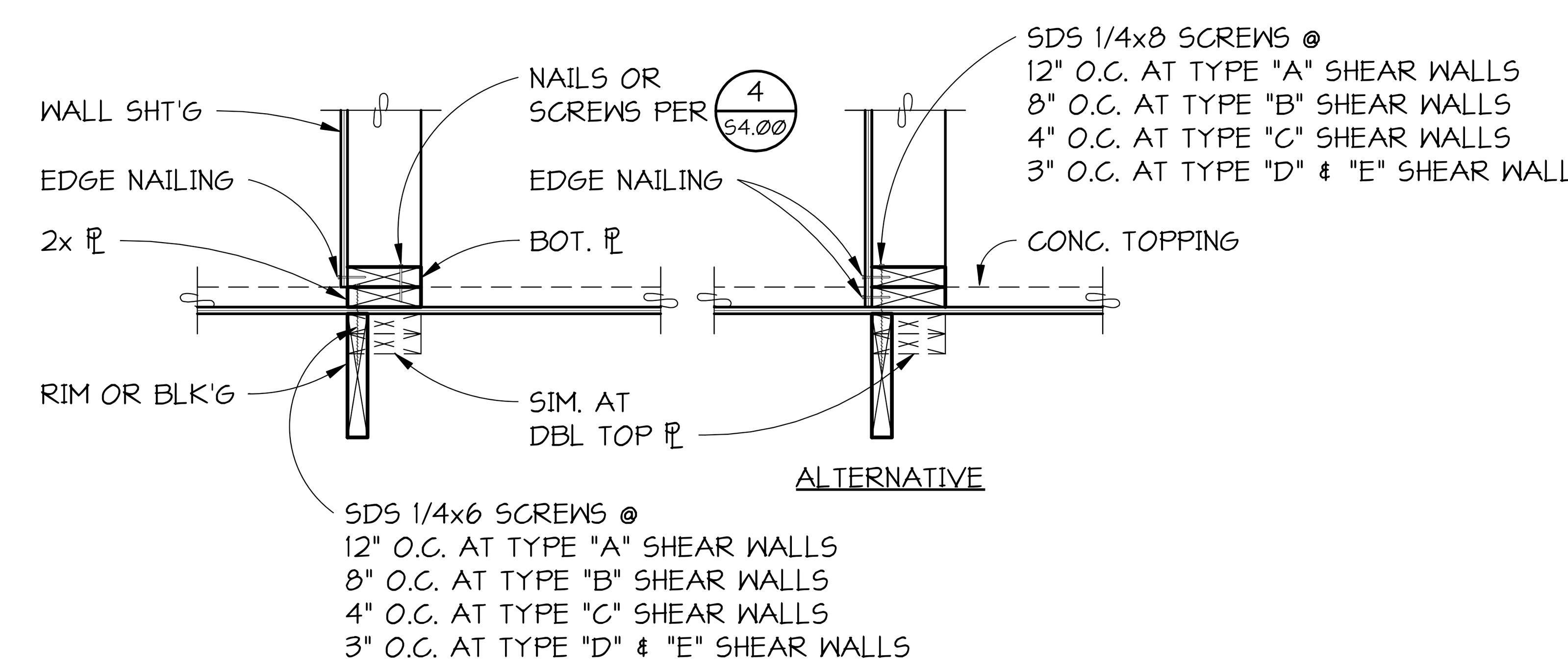
TYPICAL SILL PLATE ANCHORAGE

4 DETAIL
S4.01 NO SCALE



TYPICAL CROSSWALL HOLDOWN LOCATIONS

5 PLAN DETAIL
S4.01 NO SCALE



6 SECTION
S4.01 NO SCALE

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EAST BAY LOT A
WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
PERMIT SET
5/11/18

REVISION 9
07/17/19

WALL FRAMING DETAILS

S4.01

CONTINUOUS HOLDOWN SCHEDULE			
HOLDOWN	FLOOR	DIAMETER	GRADE
CRH-1	5	1/2"	F1554 GR 55
	4	1/2"	
	3	5/8"	
	2	1"	
CRH-2	5	1/2"	F1554 GR 55
	4	5/8"	
	3	1"	
	2	1¼"	

	CRH-1		
LEVEL	LOAD	STRETCH	POST ON EA. SIDE
5	620#	.071"	(2) STUDS PER PLAN
4	1,500#	.069"	(2) STUDS PER PLAN
3	6,800#	.104"	6x MEMBER PER PLAN
2	17,470#	.101"	10x MEMBER PER PLAN

	CRH-2		
LEVEL	LOAD	STRETCH	POST ON EA. SIDE
5	1,040#	.119"	(2) STUDS PER PLAN
4	7,620#	.117"	6x MEMBER PER PLAN
3	21,260#	.122"	10x MEMBER PER PLAN
2	45,790#	.115"	12x MEMBER PER PLAN

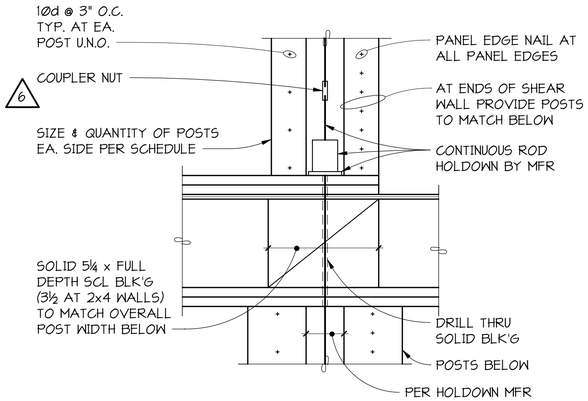
CONTINUOUS ROD HOLDOWN SCHEDULE

NOTES:

1. LOAD: THE DESIGN CUMULATIVE TENSION LOAD IN POUNDS AT SERVICE LEVEL.
   STRETCH: SYSTEM ELONGATION IN INCHES AT LISTED LOAD.
   POSTS: PROVIDE SIZE & QUANITY SHOWN EACH SIDE OF ROD HOLDOWN MINIMUM.
2. FOR TYPICAL ELEVATION SEE 2/S4.02.
3. FOR TYPICAL ANCHORAGE TO PODIUM SLAB DETAIL SEE 3/S4.02.
4. FOR TYPICAL ROD TERMINATION DETAIL SEE 4/S4.02.
5. A SHRINKAGE COMPENSATING TAKE UP DEVICE SHALL BE PROVIDED AT EACH FLOOR CAPABLE OF ACCOMODATING 3/8" OF SHRINKAGE/CONSOLIDATION.

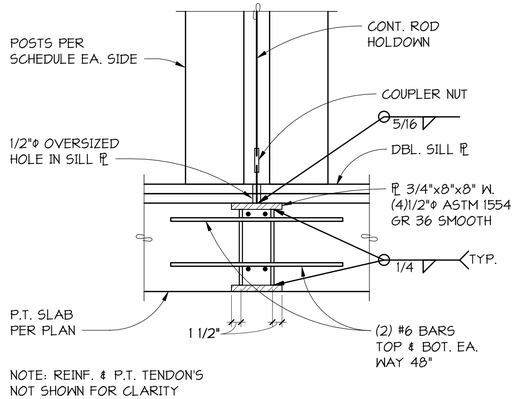
1 / S4.02 SCHEDULE
NO SCALE

6



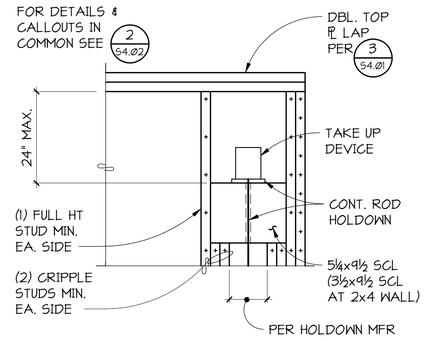
TYPICAL CONTINUOUS ROD HOLDOWN ELEVATION

2 / S4.02 ELEVATION
NO SCALE



NOTE: REINF. & P.T. TENDON'S
NOT SHOWN FOR CLARITY

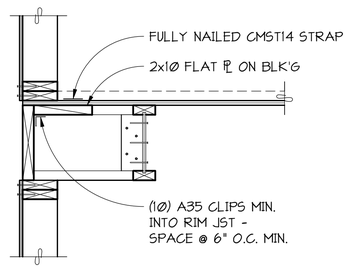
3 / S4.02 DETAIL
NO SCALE



TYPICAL ROD TERMINATION

4 / S4.02 DETAIL
NO SCALE

- SEE 2/S6.00 FOR CALLOUTS AT TYPICAL LOCATION



5 / S4.02 SECTION
NO SCALE

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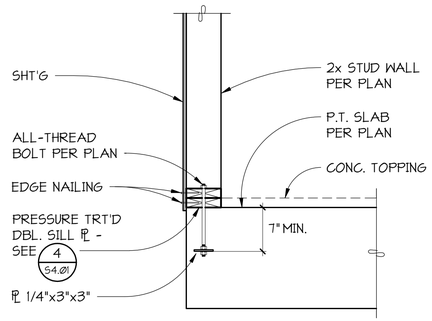
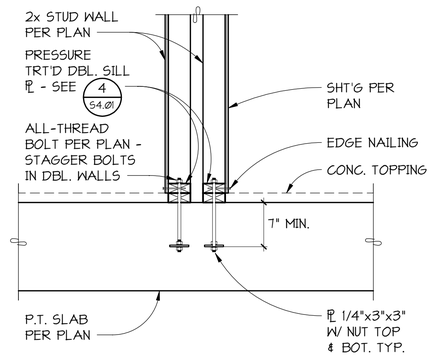
HOLDDOWN DETAILS

S4.02

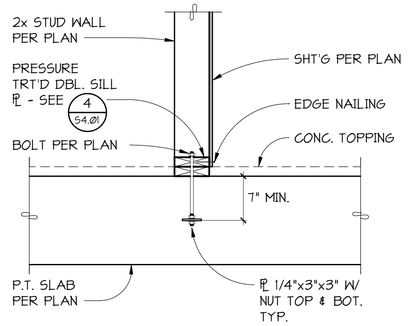
8/6/2019 2:11:47 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt



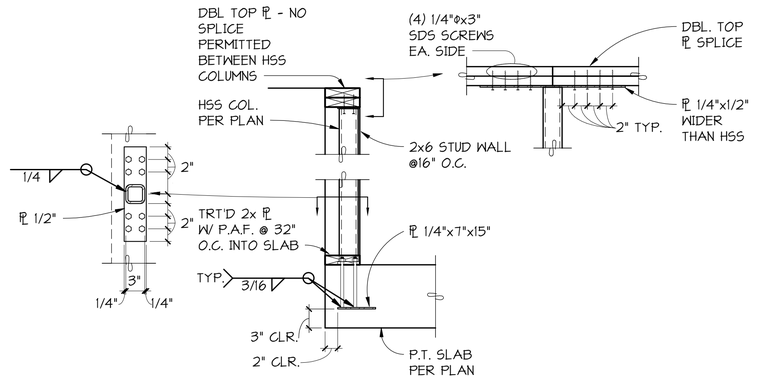
1 S4.03 **SECTION**
NO SCALE



2 S4.03 **SECTION**
NO SCALE



3 S4.03 **DETAIL**
NO SCALE



4 S4.03 **SECTION**
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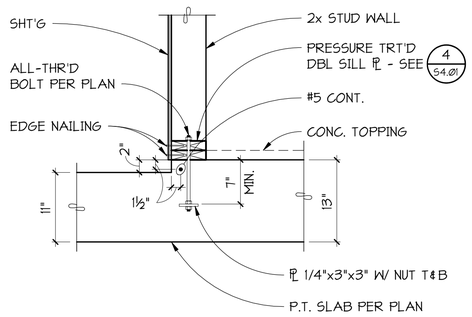

5 S4.03 **SECTION**
1" = 1'-Ø"

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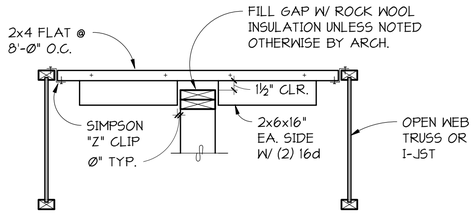
WALL ON SLAB FRAMING DETAILS

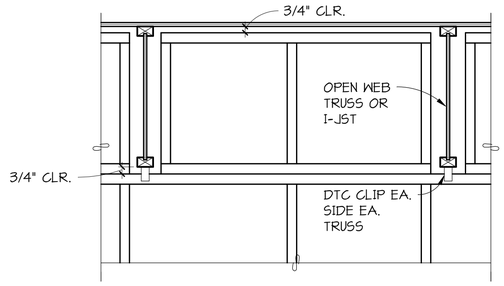
S4.03

8/6/2019 2:11:50 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt



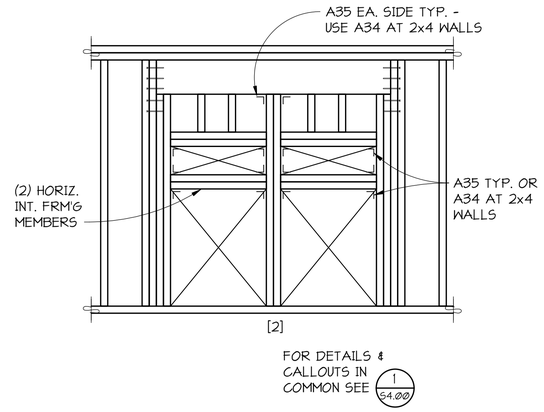
TYPICAL CONNECTION AT TOP OF NON-BEARING WALL EXTENDING TO ROOF STRUCTURE PARALLEL TO JOIST

1 S4.Ø4 SECTION
NO SCALE



TYPICAL CONNECTION AT TOP OF NON-BEARING WALL EXTENDING TO ROOF STRUCTURE PERPENDICULAR TO JOISTS

2 S4.Ø4 SECTION
NO SCALE



TYPICAL STUD WALL CONSTRUCTION AT HEADER WITH INTERMEDIATE MULLION

3 S4.Ø4 SECTION
3/4" = 1'-Ø"

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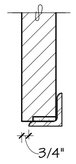
WALL FRAMING DETAILS

S4.04

8/6/2019 2:11:54 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_sanfillc.rvt

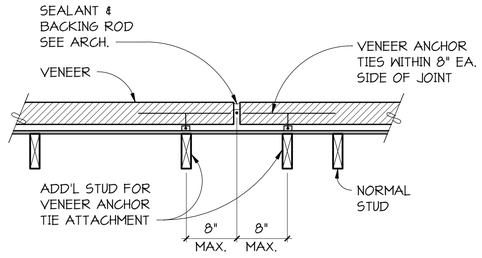
LINTEL ANGLE SCHEDULE		
MAX. WIDTH OF OPN'G	ANGLE SIZE	MIN. BEARING REQ'D AT END OF ANGLE
5'-0"	L3½x3½x1/4	4"
8'-0"	L6x3½x5/16	4"
10'-0"	L7x4x3/8	8"
14'-0"	L7x4x1/2	12"



NOTES:
ALL LINTEL ANGLES SHALL BE GALVANIZED.

1 S4.05 DETAIL
NO SCALE

NOTE:
SEE ARCH. FOR LOCATION OF VENEER CONTROL JOINTS



TYPICAL VENEER CONTROL JOINT

2 S4.05 DETAIL
NO SCALE

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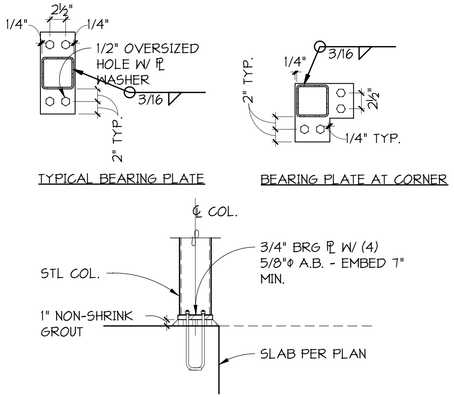
MASONRY VENEER DETAILS

S4.05

8/6/2019 2:11:58 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_santillo.rvt



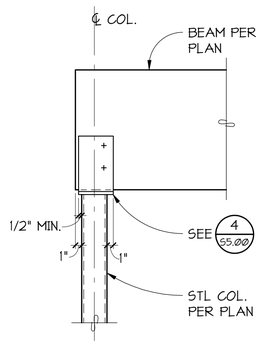
TYPICAL BEARING PLATE

BEARING PLATE AT CORNER

TYPICAL STEEL COLUMN BASE

1 / 55.00 SECTION

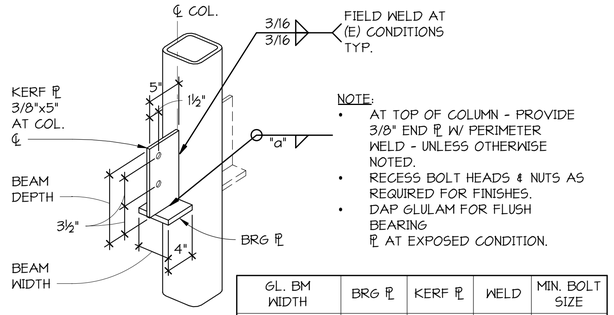
NO SCALE



TYPICAL SINGLE GLULAM BEAM TO COLUMN CONNECTION

2 / 55.00 SECTION

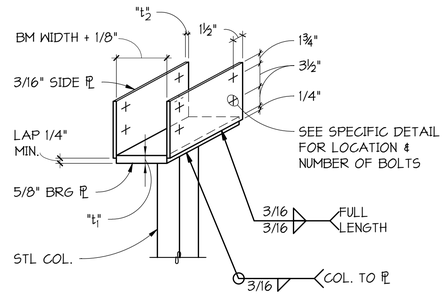
NO SCALE



GL. BM WIDTH	BRG ℄	KERF ℄	WELD	MIN. BOLT SIZE
5⅛	5/8"	3/8"	3/16"	3/4"

3 / 55.00 SECTION

NO SCALE

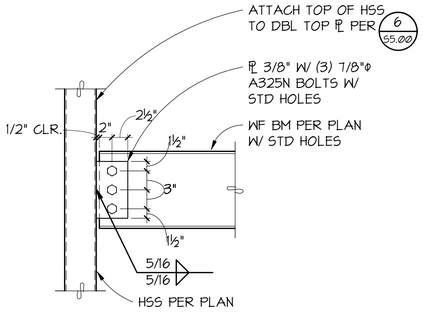


GL. BM WIDTH	BRG ℄ "t1"	SIDE ℄ "t2"	WELD "a"	MIN. BOLT SIZE
5⅛	5/8"	3/16"	3/16"	3/4"

TYPICAL GLULAM BEAM BEARING CONNECTION ASSEMBLY

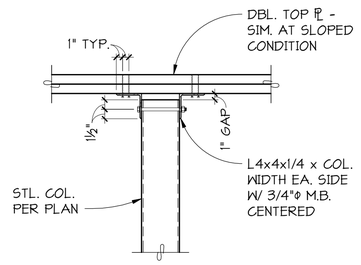
4 / 55.00 DETAIL

NO SCALE



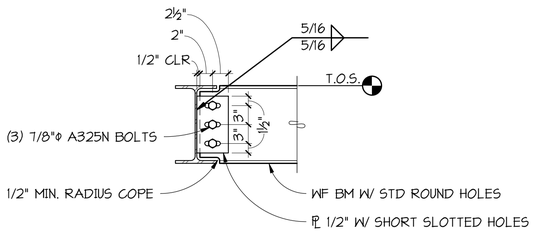
5 / 55.00 SECTION

NO SCALE



6 / 55.00 DETAIL

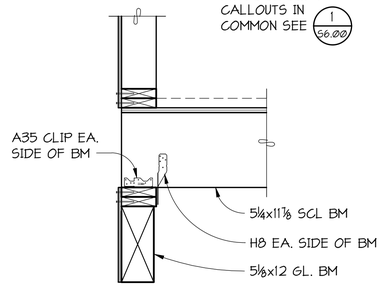
NO SCALE



TYPICAL BEAM TO BEAM CONNECTION

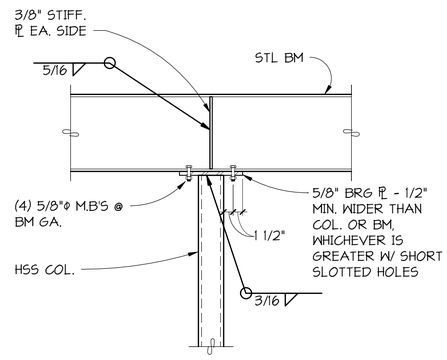
7 / 55.00 SECTION

NO SCALE



8 / 55.00 SECTION

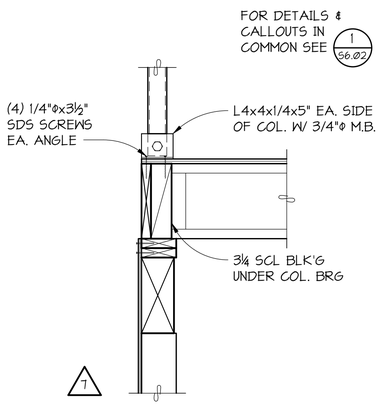
NO SCALE



TYPICAL CONTINUOUS STEEL BEAM COLUMN CONNECTION

9 / 55.00 SECTION

NO SCALE



10 / 55.00 SECTION

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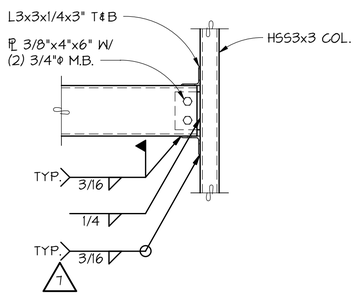
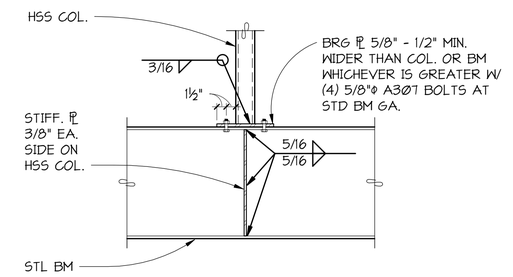


11 / 55.00 SECTION

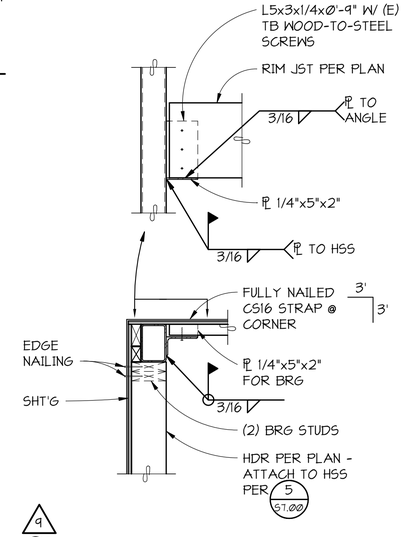
NO SCALE



TYPICAL STEEL BEAM CONNECTION TO COLUMN ABOVE

12 / 55.00 DETAIL

NO SCALE



13 / 55.00 SECTION

NO SCALE

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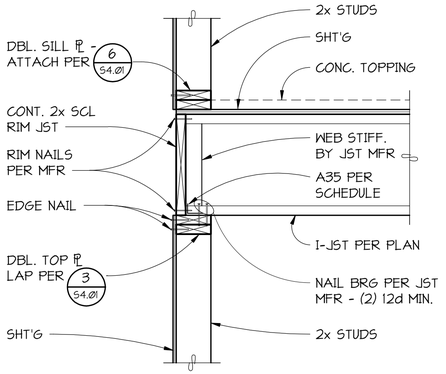
COLUMN AND GLULAM BEAM DETAILS

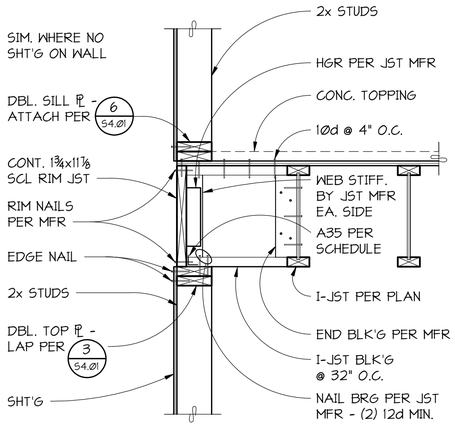
S5.00

8/6/2019 2:12:03 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt



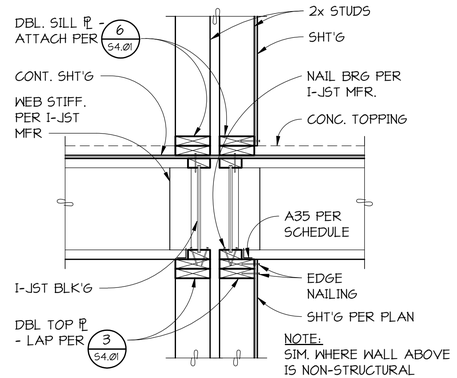
TYPICAL I-JOIST BEARING AT EXTERIOR WALL

1/S6.00 SECTION
NO SCALE



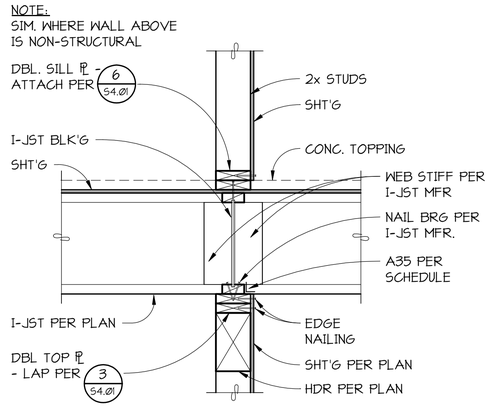
TYPICAL I-JOIST BLOCKING PARALLEL TO EXTERIOR WALL

2/S6.00 SECTION
NO SCALE



TYPICAL I-JOIST AT BEARING STUD WALL

3/S6.00 SECTION
NO SCALE



4/S6.00 SECTION
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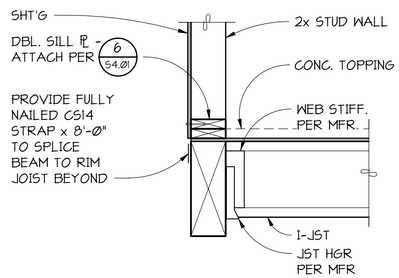
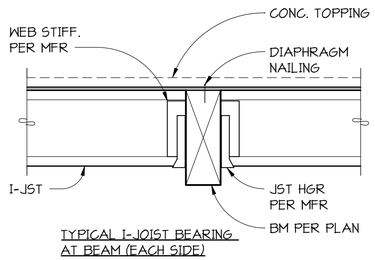


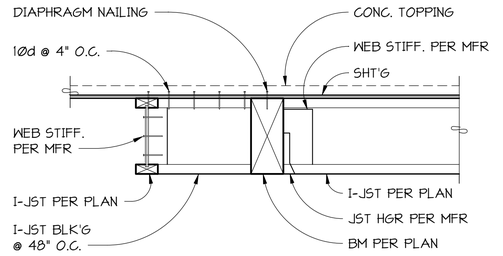
TYPICAL I-JOIST BEARING AT BEAM (ONE SIDE)

5/S6.00 SECTION
NO SCALE

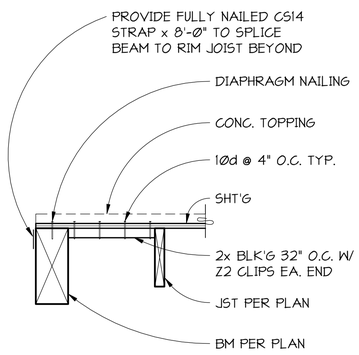


TYPICAL I-JOIST BEARING AT BEAM (EACH SIDE)

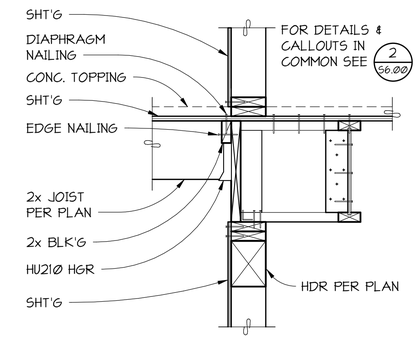
6/S6.00 SECTION
NO SCALE



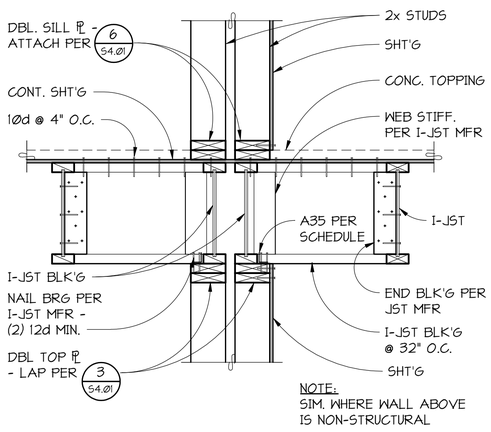
7/S6.00 SECTION
NO SCALE



8/S6.00 SECTION
NO SCALE



9/S6.00 DETAIL
NO SCALE



10/S6.00 SECTION
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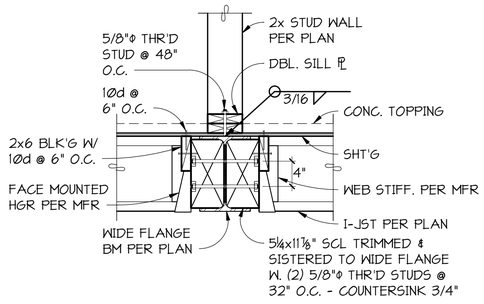
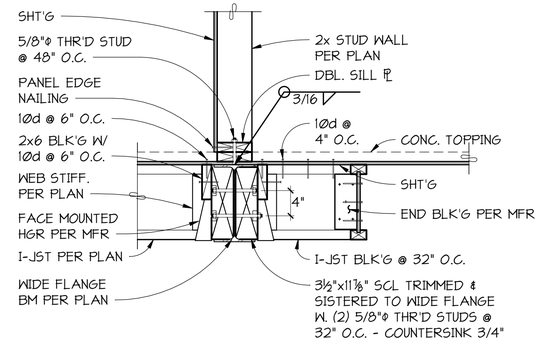
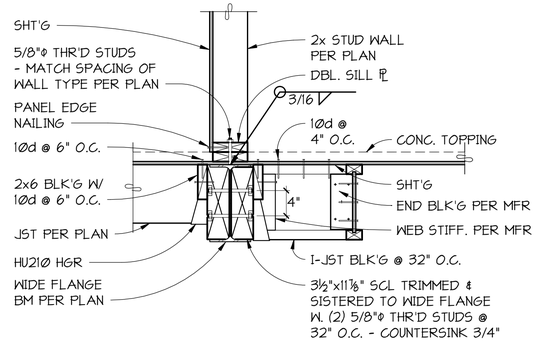


11/S6.00 SECTION
NO SCALE



12/S6.00 SECTION
1" = 1'-0"



13/S6.00 SECTION
1" = 1'-0"

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EAST BAY LOT A WESTMAN MILL

510 STATE AVE OLYMPIA, WA. 98501

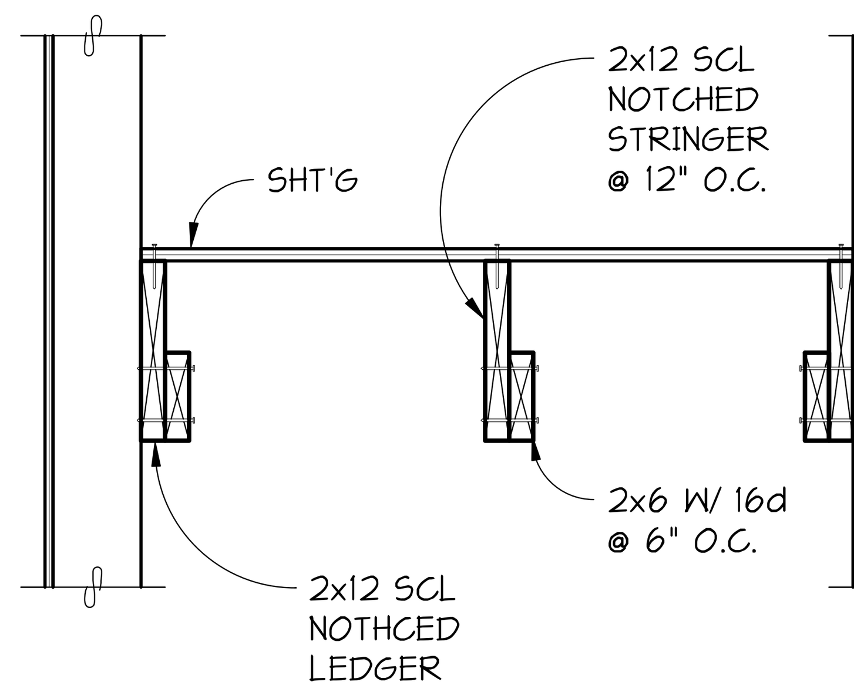
Project No: 1514
PERMIT SET
5/11/18

REVISION 9
07/17/19

FLOOR FRAMING DETAILS

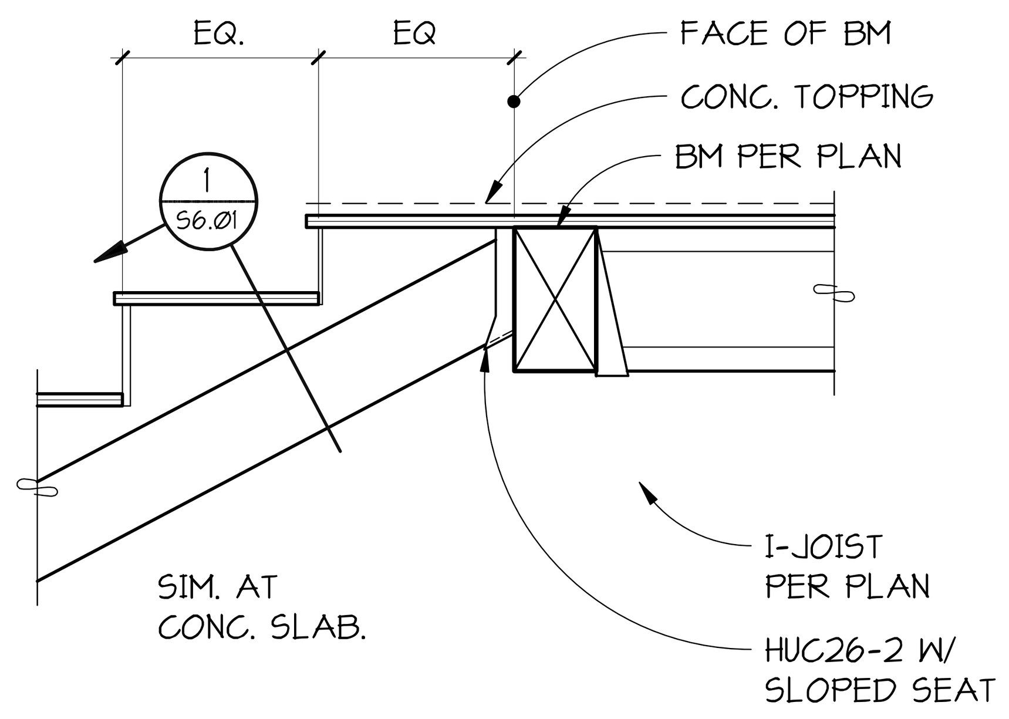
S6.00

8/6/2019 2:12:07 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_sanfilla.rvt



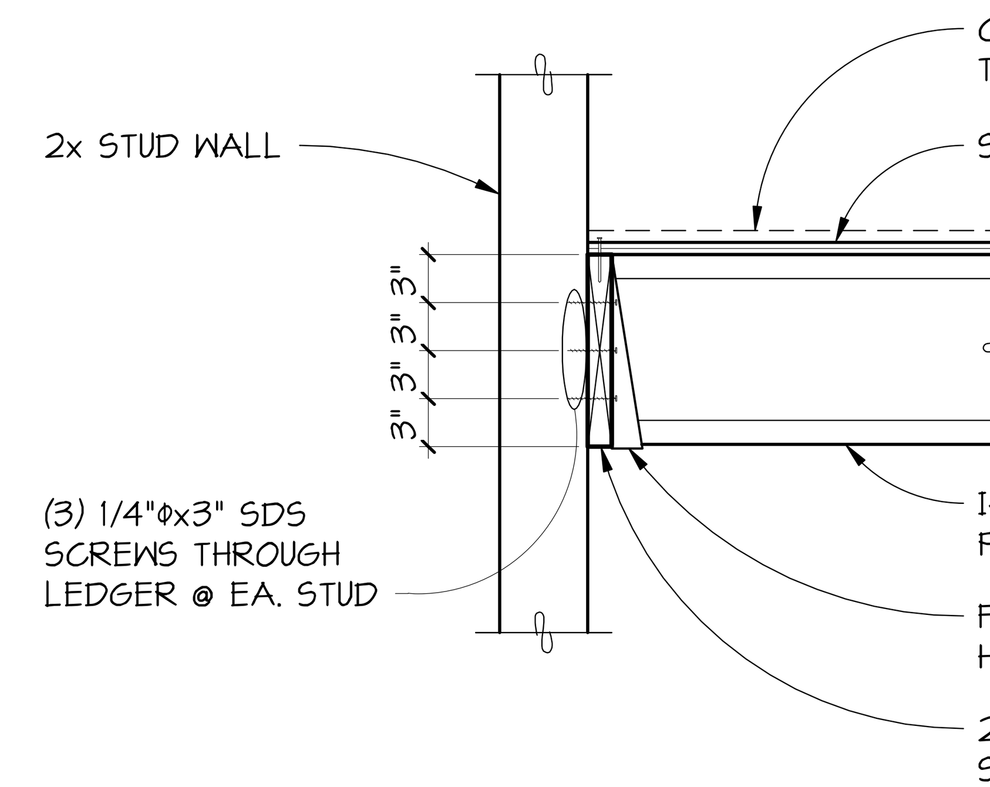
TYPICAL STAIR STRINGER

1 SECTION
S6.01 NO SCALE

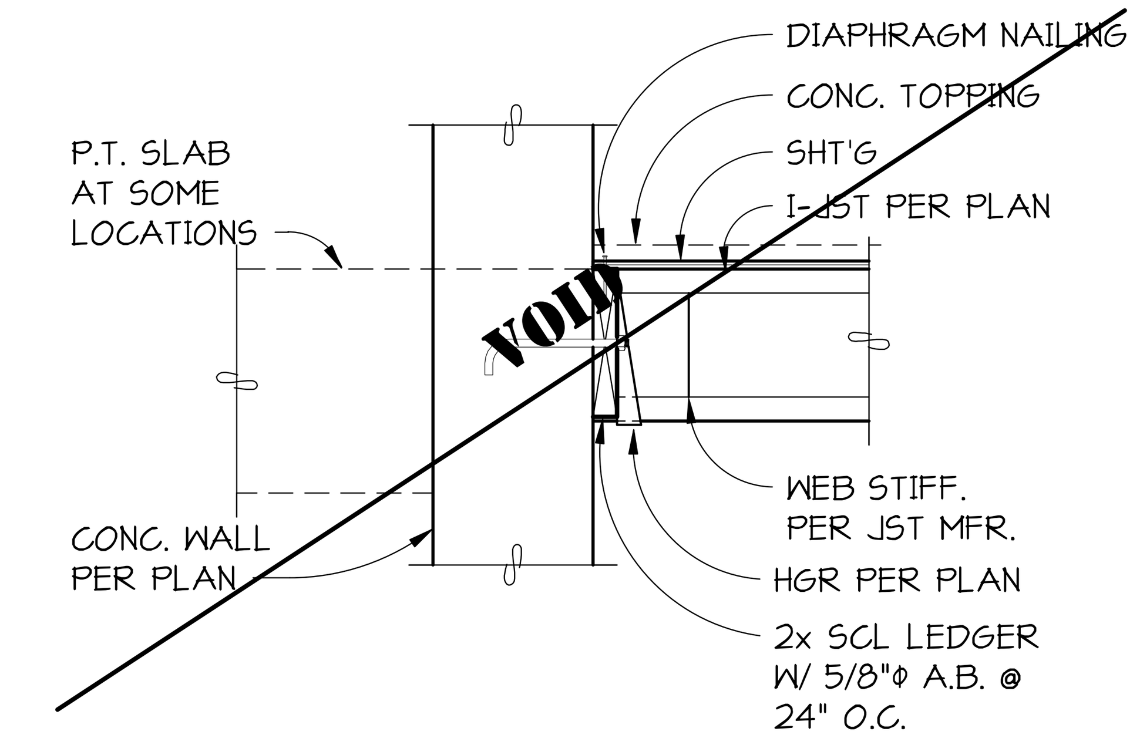


TYPICAL STRINGER CONNECTION TO FLOOR/LANDING

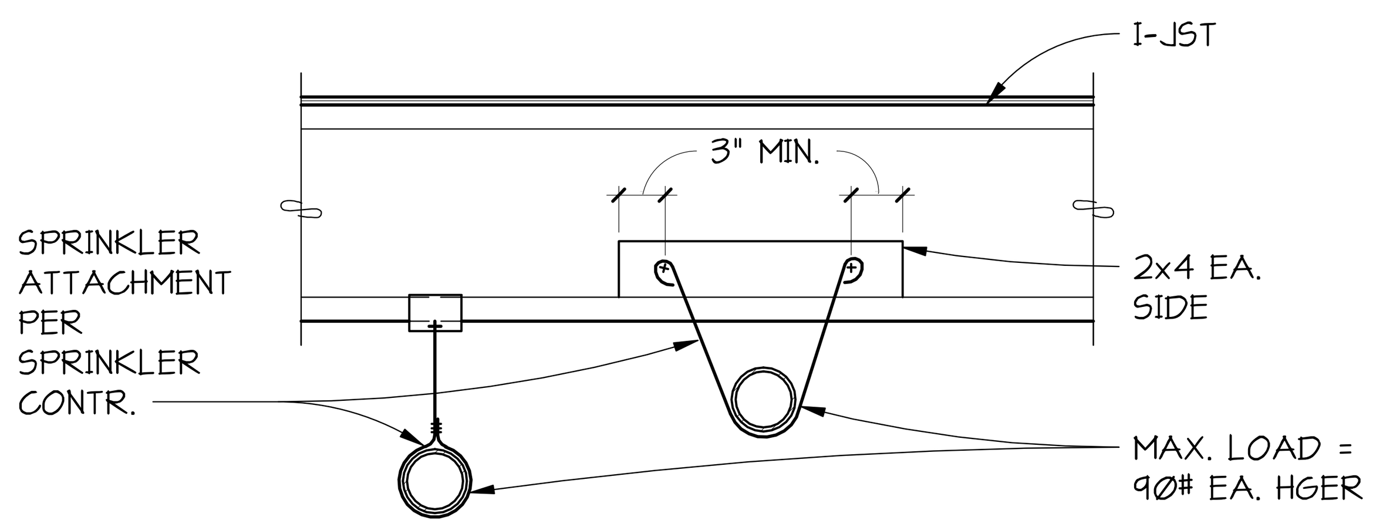
2 SECTION
S6.01 NO SCALE



3 SECTION
S6.01 NO SCALE



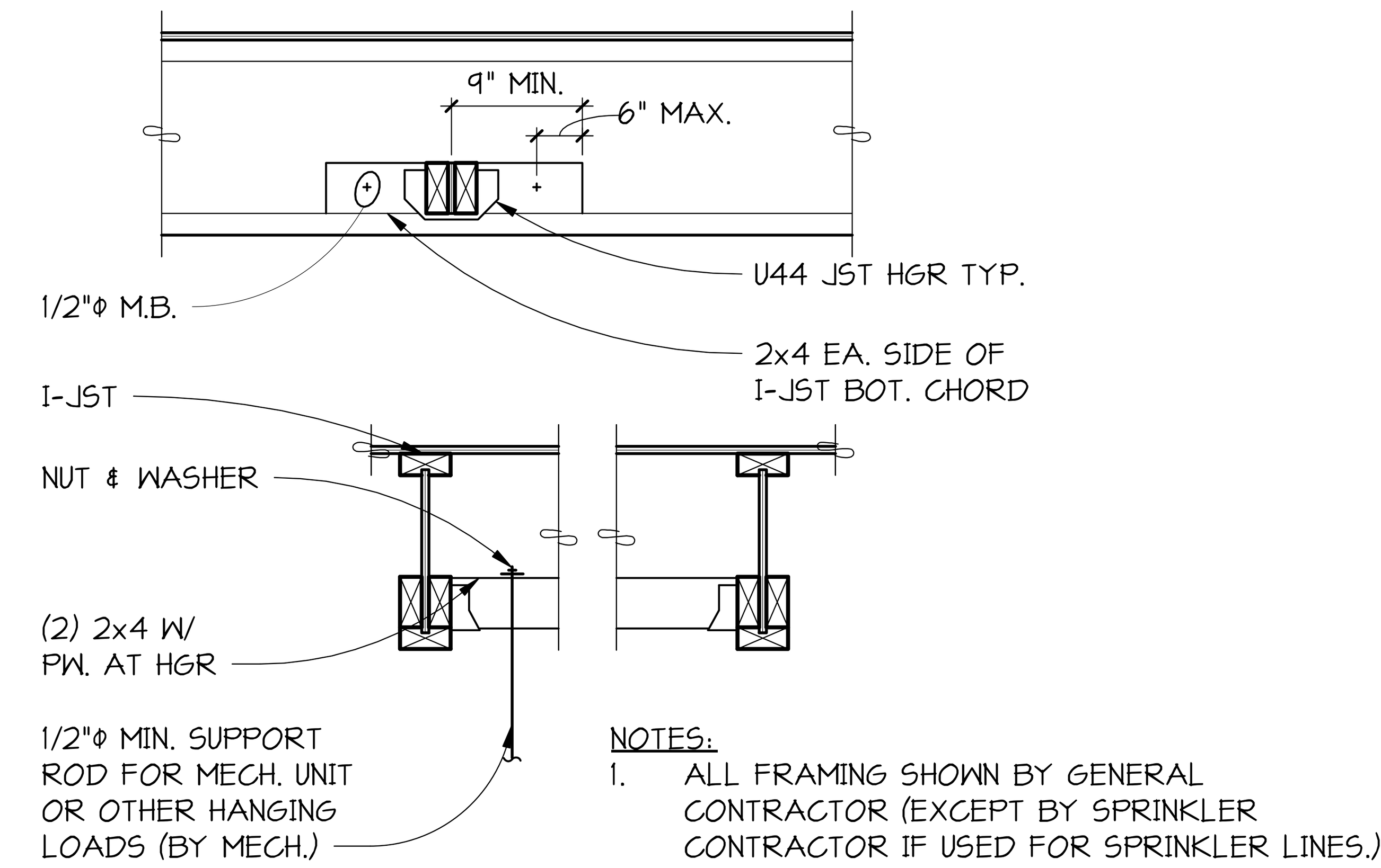
4 SECTION
S6.01 NO SCALE



NOTES:
FOR LINES GREATER THAN 3"ϕ HANG FROM GLULAM BEAMS OR STUD WALL OR HANG PER 6/S6.01 OR SUPPORT OFF WALLS WHEN SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER

TYPICAL SPRINKLER LINE ATTACHMENT FOR LINES 3"ϕ OR SMALLER

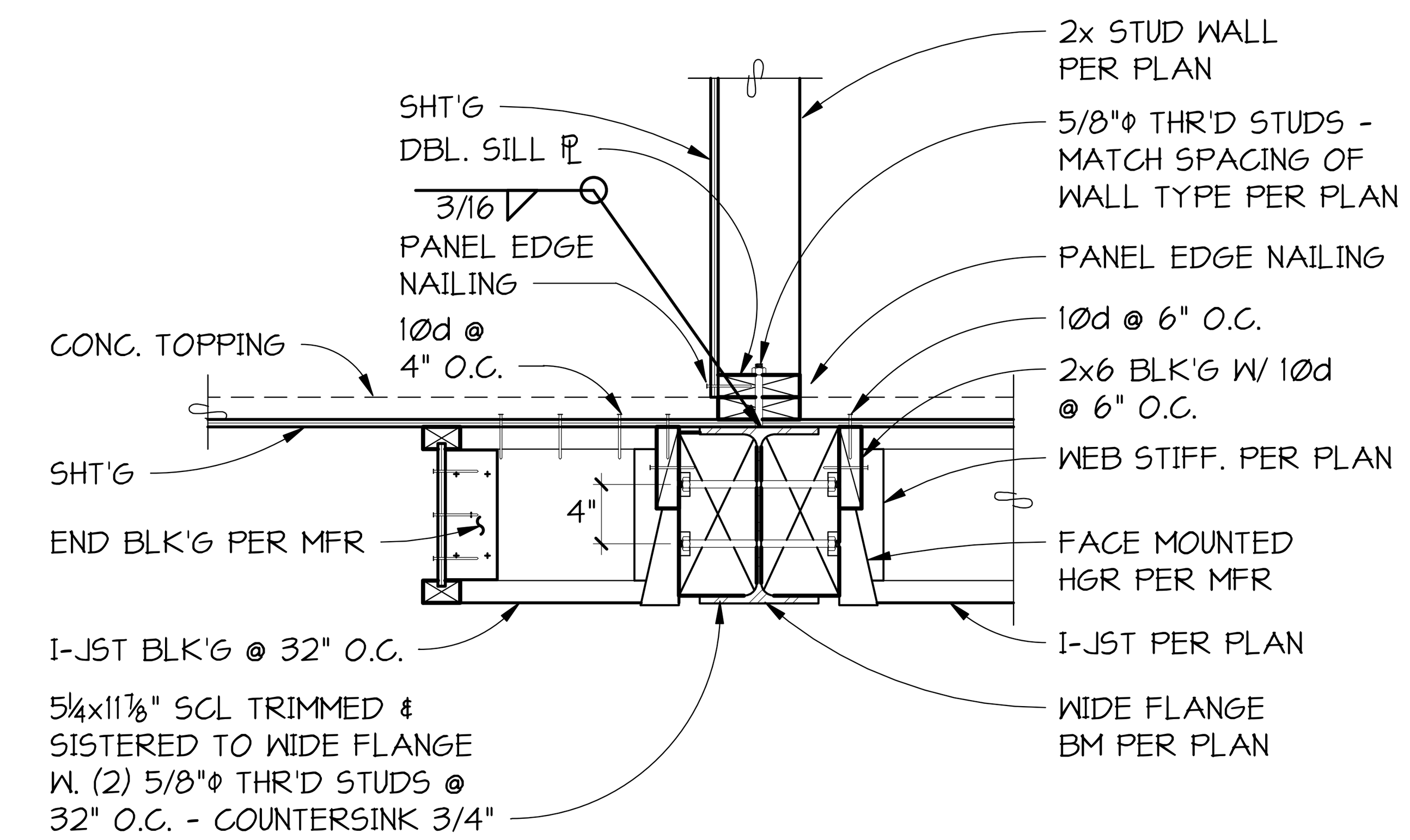
5 SECTION
S6.01 NO SCALE



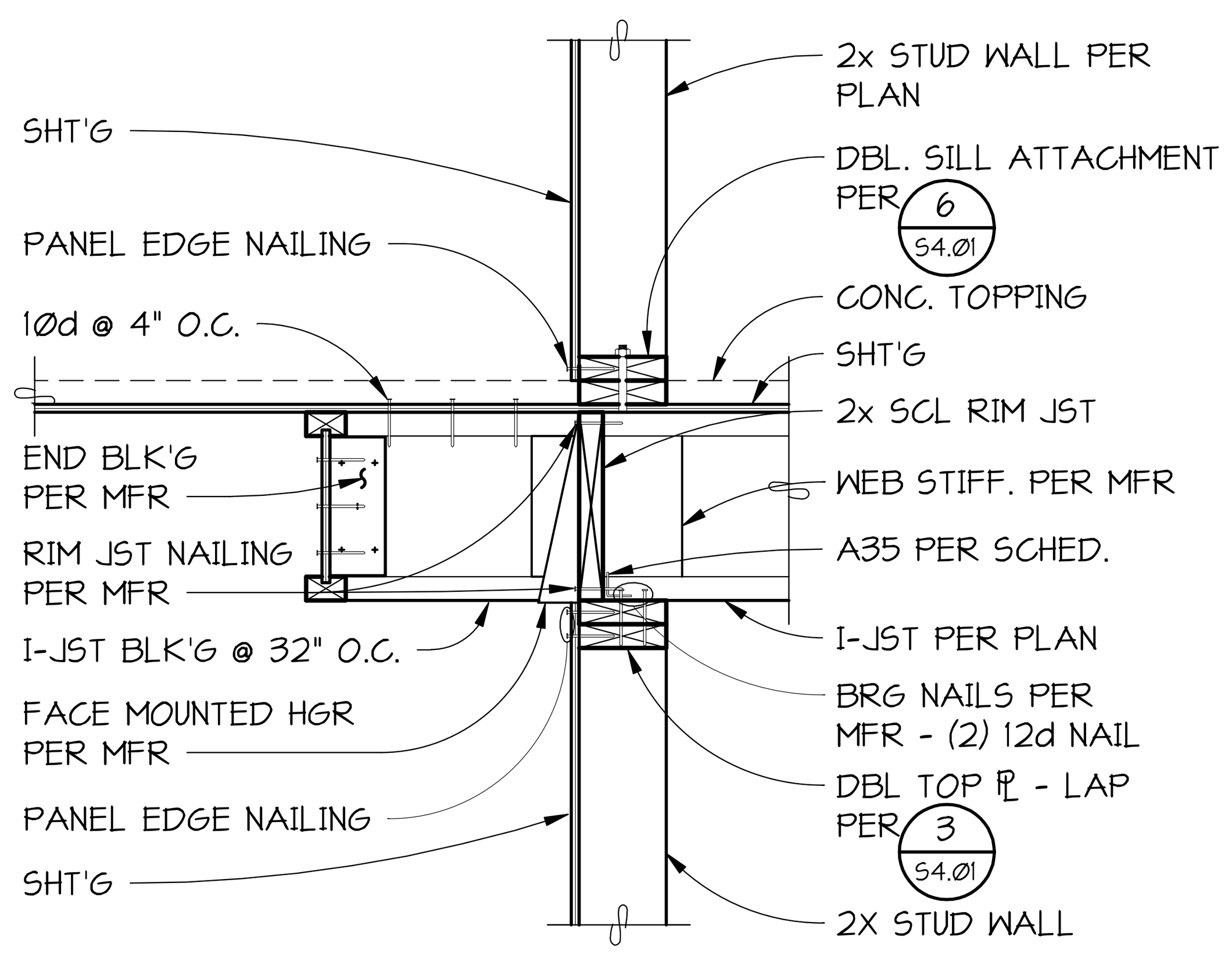
NOTES:
1. ALL FRAMING SHOWN BY GENERAL CONTRACTOR (EXCEPT BY SPRINKLER CONTRACTOR IF USED FOR SPRINKLER LINES.)
2. DO NOT CUT OR DRILL THRU JOIST.
3. MAXIMUM SUPPORT LOAD 500#.

TYPICAL DETAIL FOR HANGING LOADS FROM I-JOIST (ALL HEAT PUMPS, R FANS OR E FANS OVER 90#)

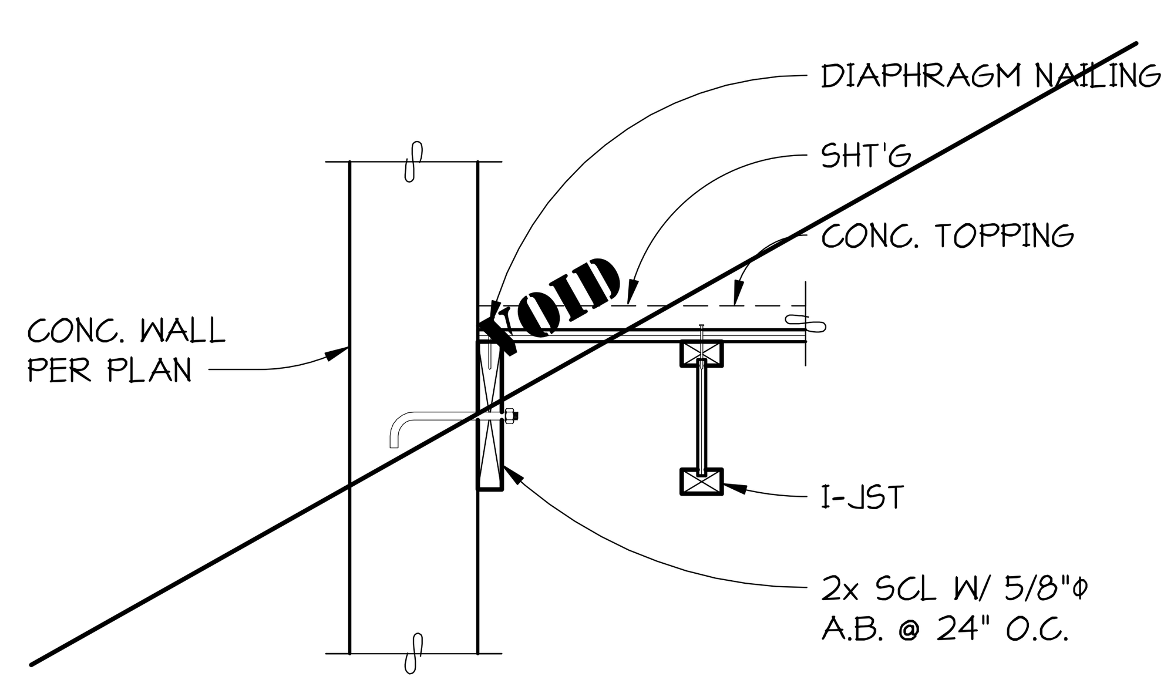
6 SECTION
S6.01 NO SCALE



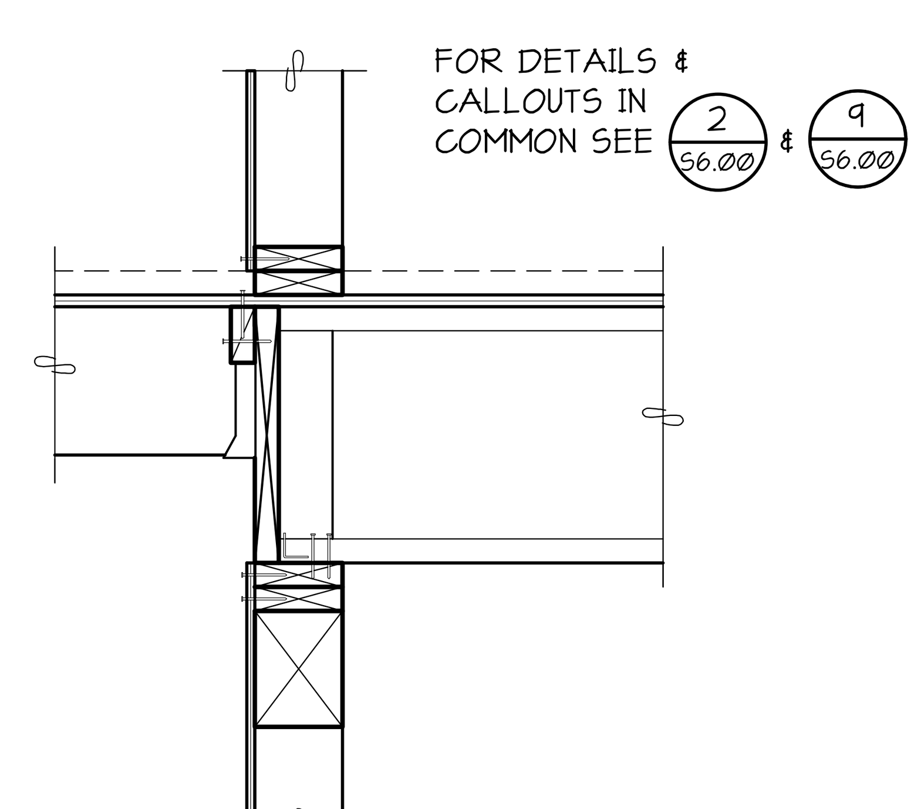
7 SECTION
S6.01 1" = 1'-0"



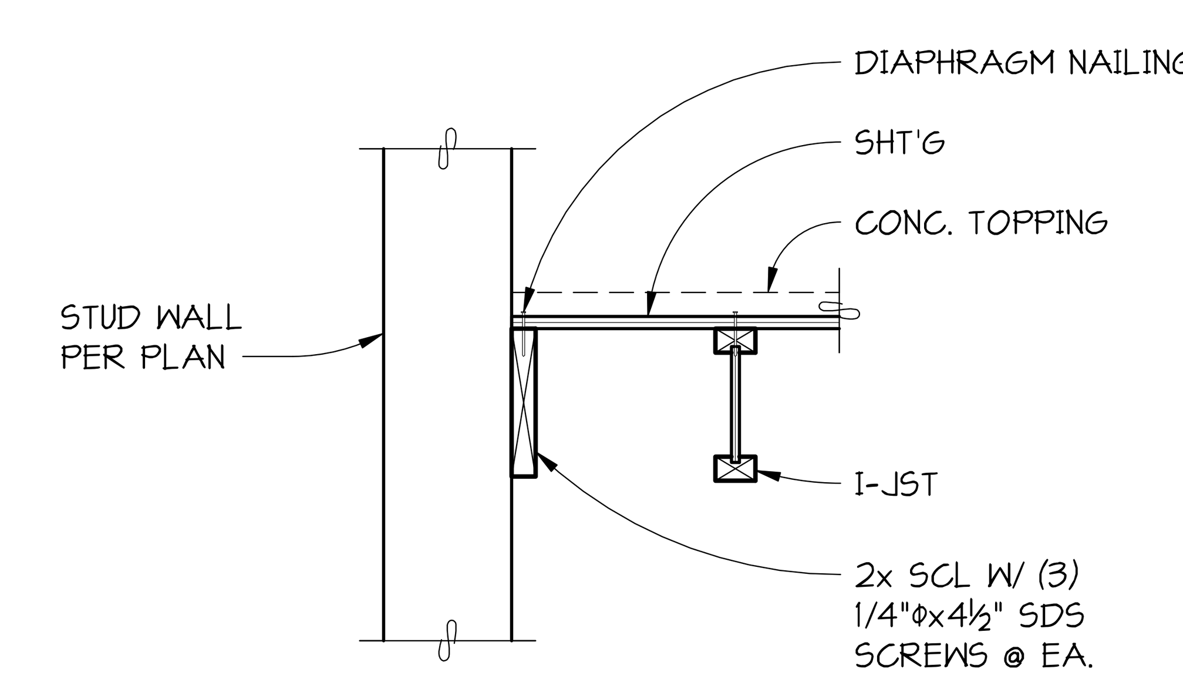
8 SECTION
S6.01 NO SCALE



9 SECTION
S6.01 NO SCALE



10 SECTION
S6.01 NO SCALE



11 SECTION
S6.01 NO SCALE

TAS
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WESTMAN MILL
510 STATE AVE OLYMPIA, WA. 98501

Project No: 1514
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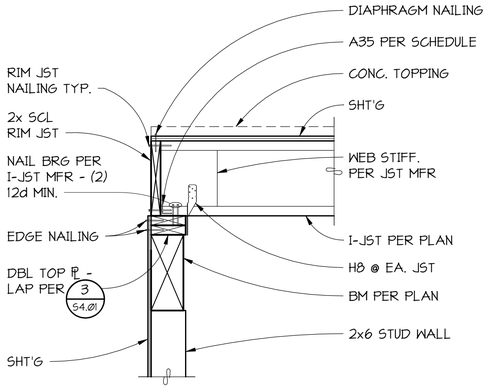
5/11/18

REVISION 9
07/17/19

FLOOR FRAMING DETAILS

S6.01

C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt
8/6/2019 2:12:10 PM



1 S6.02 SECTION
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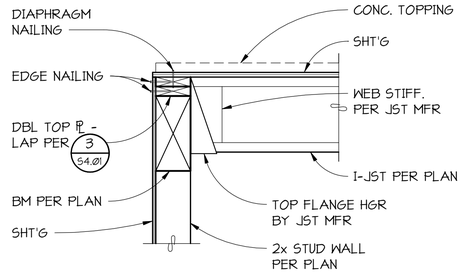
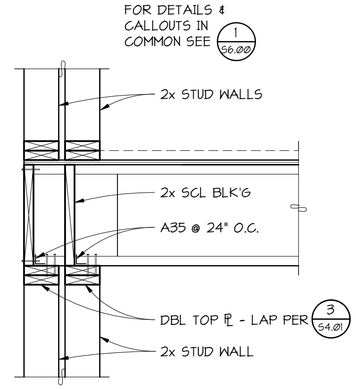


9
2 S6.02 SECTION
NO SCALE



3 S6.02 SECTION
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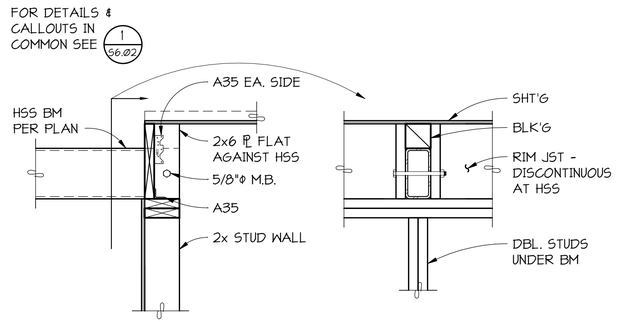

8
4 S6.02 SECTION
NO SCALE

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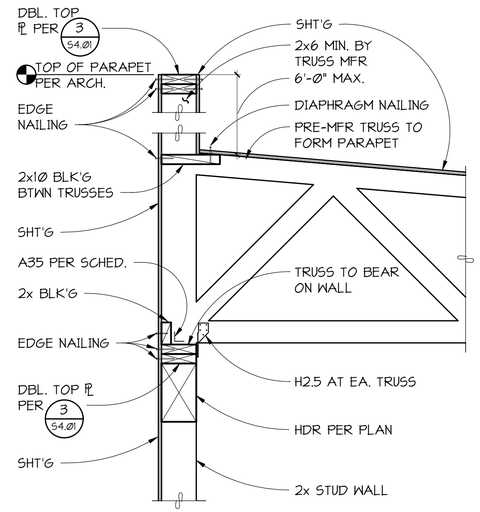
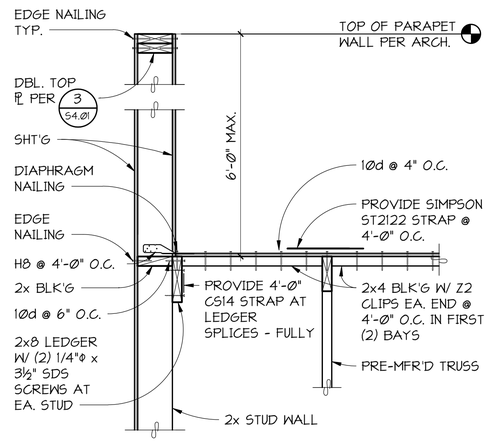
FLOOR FRAMING DETAILS

S6.02

8/6/2019 2:12:13 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_sanfillc.rvt



1 S7.00 **SECTION** NO SCALE



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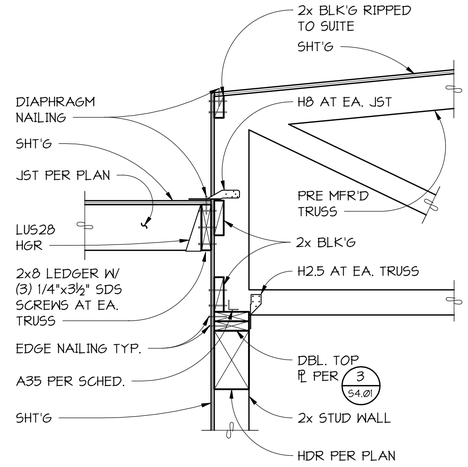

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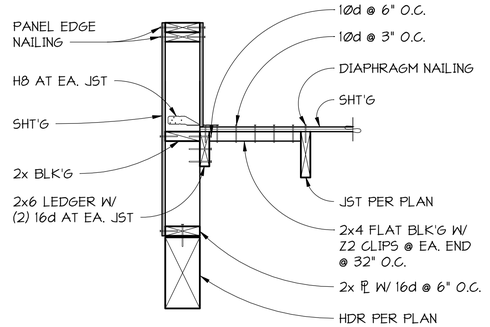

4 S7.00 **SECTION** NO SCALE

5 S7.00 **SECTION** NO SCALE

6 S7.00 **SECTION** NO SCALE

7 S7.00 **SECTION** NO SCALE

8 S7.00 **SECTION** NO SCALE

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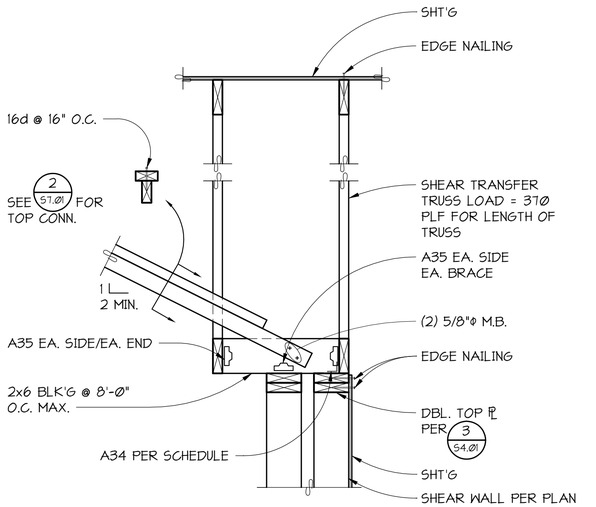
ROOF FRAMING DETAILS

S7.00

8/6/2019 2:12:17 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt



1 S7.Ø1 **SECTION**
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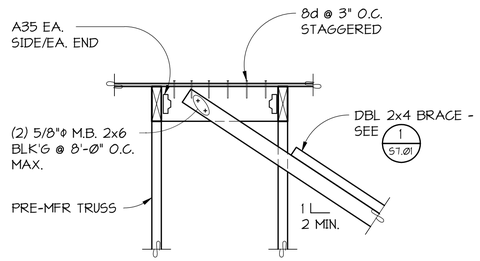

BRACE CONNECTION

2 S7.Ø1 **SECTION**
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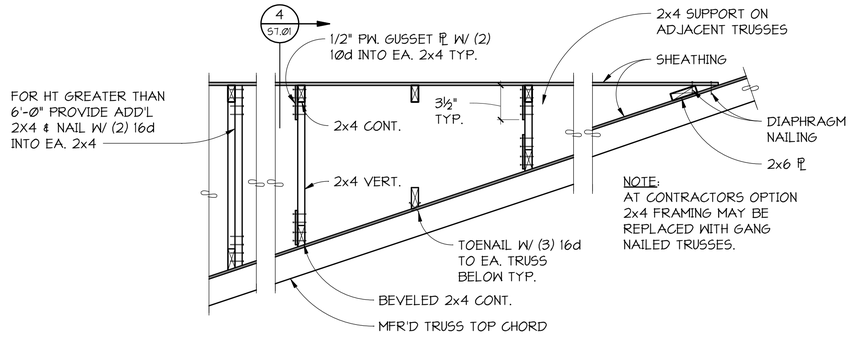

3 S7.Ø1 **SECTION**
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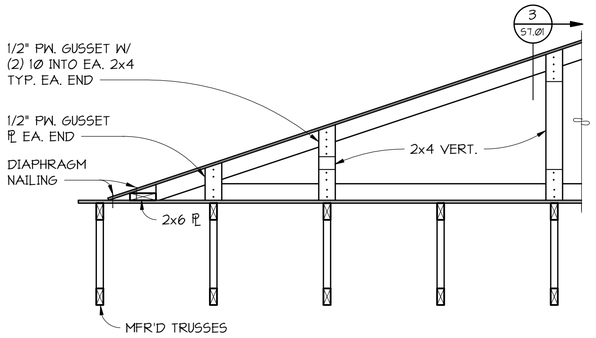

TYPICAL OVERLAY FRAMING

4 S7.Ø1 **SECTION**
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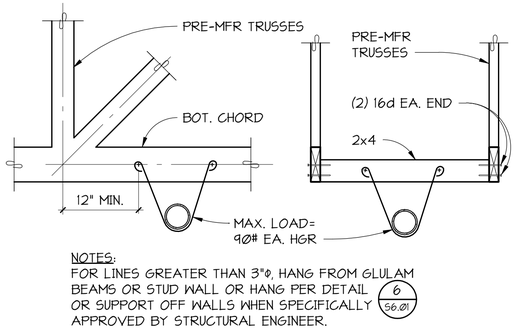

NOTES:
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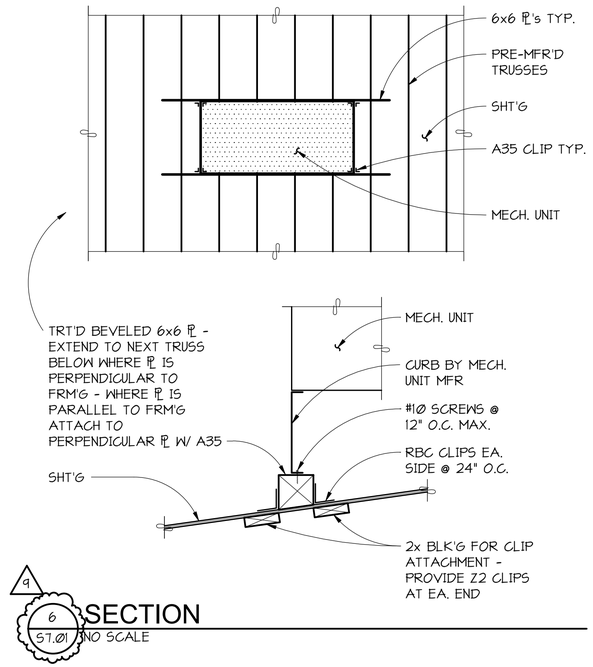
TYPICAL SPRINKLER LINE ATTACHMENT FOR LINES 3"ø OR SMALLER

5 S7.Ø1 **SECTION**
NO SCALE



9
6 S7.Ø1 **SECTION**
NO SCALE

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ROOF FRAMING DETAILS

S7.01

8/6/2019 2:12:20 PM C:_Revit Models\16574 Westman Mill v2017 (Central)_santilla.rvt

Final Shop Drawings

Westman Mill

Project #110805 — Olympia, WA

Reference Documents: ***5/24/2019***

Drawing Section	By	Date	Revision	Type	Sheets
Architectural	Thomas Architecture Studio, Inc.	6/7/2018		Bid	Full set
Structural	PCS Structural	6/7/2018		Bid	Full set
Mechanical					

IF YOU HAVE QUESTIONS...

Your primary contact is your Project Manager:

Tim Kolb
(208) 395-2454
tkolb@redbuilt.com

Your secondary contact is your Technical Representative:

Nolan Franks
(253) 857-7600
nfranks@redbuilt.com

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CM 7/30/19- EOR stamped calculations located on Page #15 of submittal package

CM 7/30/19- Submittal has been updated to include the beam deletions that occurred along the Level 2 lounge.

Material List & Calculations pp. 1-25, Drawings pp. 1-8

Our responsibility is limited to the design of RedBuilt products in accordance with the above referenced documents based on design loads specified by the engineer of record.

IMPORTANT (Please Read)

- Installation of the materials is the sole responsibility of the installer.
- Refer to Installation Information sheets for more detailed instruction.
- All materials shall be furnished by others unless included on the material list provided herein.

APPROVED FOR PRODUCTION

RedBUILT™ Engineered Wood Products

Material List

RB Number 110805
Project Name Westman Mill
Location Olympia, WA

Delivery D1: 3rd Fl 1-7
Plant Stayton

Operator Joe Legerski
Office Boise

Comment
Status **Approved For Production**
Report Type Customer

Red-I™ Products				***Joists***									
Quantity	Type	Series	Depth	Length	Profile	Bevel Cut	WS Att.	Knockouts	Camber	P.E.T.		Footage	Notes
30	A1	Red-I45	11.88	15'-6.00"	None					No		465.0	
17	A10	Red-I45	11.88	8'-0.00"	None					No		136.0	
6	A11	Red-I45	11.88	4'-6.00"	None					No		27.0	
164	A2	Red-I45	11.88	12'-6.00"	None					No		2050.0	
36	A3	Red-I45	11.88	11'-6.00"	None					No		414.0	
13	A4	Red-I45	11.88	9'-0.00"	None					No		117.0	
21	A5	Red-I45	11.88	17'-6.00"	None					No		367.5	
126	A6	Red-I45	11.88	15'-0.00"	None					No		1890.0	
21	A7	Red-I45	11.88	14'-0.00"	None					No		294.0	
19	A8	Red-I45	11.88	12'-0.00"	None					No		228.0	
33	A9	Red-I45	11.88	5'-0.00"	None					No		165.0	
24	B1	Red-I45	9.5	4'-6.00"	None					No		108.0	1
27	C1	Red-I65	11.88	18'-0.00"	None					No		486.0	
14	C2	Red-I65	11.88	10'-0.00"	None					No		140.0	
24	• • •	Red-I45	9.5	• • •	• • •	• • •	• • •	• • •	• • •	• • •	*Total*	108.0	
41	• • •	Red-I65	11.88	• • •	• • •	• • •	• • •	• • •	• • •	• • •	*Total*	626.0	
486	• • •	Red-I45	11.88	• • •	• • •	• • •	• • •	• • •	• • •	• • •	*Total*	6153.5	
Note 1	Use 18 for stair landings below 3rd floor.												

Red-I™ Products				***Blocking Panels***						
Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts		Notes
215		Red-I45	11.875	14.188	1 Attached					
30		Red-I65	11.875	13.438	1 Attached					
160		Red-I45	11.875	14.188	None					
10		Red-I65	11.875	13.438	None					

				Connectors									
Quantity	Type	Model	Top	Face	Member	Slope	Skew	Flg. Slope	Flg. Angle	Flg. Offset	NetH	Finish	Notes
98	1	ITS1.81/11.88	4-N10	2-N10									
48	2	ITS1.81/9.5	4-N10	2-N10									2
148	3	IUS1.81/11.88		10-10d									
27	4	IUS2.56/11.88		10-10d									
Note 2	Use 36 for stair landings below 3rd floor.												

RedLam™ LVL Products				LVL Beams					
Quantity	Type	Size	Length	Grade	P.E.T.			Footage	Notes
2	RA1	5.25x11.88	9'-6.00"	2.0E				19.0	
1	RA2	5.25x11.88	12'-0.00"	2.0E				12.0	
1	RA3	5.25x11.88	14'-0.00"	2.0E				14.0	
2	RA4	5.25x11.88	8'-0.00"	2.0E				16.0	
4	RA5	5.25x11.88	4'-0.00"	2.0E				16.0	
1	RA6	5.25x11.88	10'-0.00"	2.0E				10.0	
6	RB1	5.25x11.88	16'-0.00"	2.0E				96.0	3
6	RB2	5.25x11.88	18'-0.00"	2.0E				108.0	3
12	RC1	3.5x11.88	12'-0.00"	2.0E				144.0	3
4	RC2	3.5x11.88	14'-0.00"	2.0E				56.0	3
2	RC3	3.5x11.88	18'-0.00"	2.0E				36.0	3
18	• • •	3.5x11.88	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	Total	236.0	
23	• • •	5.25x11.88	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	Total	291.0	
Note 3		WF Beam fillers								

RedLam™ LVL Products				LVL Rim Board			
Lineal Ft	Type	Size	Grade	LSL Substitution		Footage	Notes
784		1.75x11.88		N/A		784.0	

RedBuilt™ Products				LSL Rim Board				
Lineal Ft	Type	Size	Grade	LVL Substitution			Footage	Notes
144		1.5x9.5	1.3E	Allowed			144.0	
672		1.5x11.88	1.3E	Allowed			672.0	
144.0	• • •	1.5x9.5	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	Total	144.0	
672.0	• • •	1.5x11.88	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	Total	672.0	

Third-Party (Sourced by RedBuilt™)				Glulam Beams						
Quantity	Type	Size	Length	Layup	Camber	Appearance	P.E.T.		Footage	Notes
5	GA1	5.125x9	10'-0.00"	24F-V4	5000'	Industrial			50.0	
2	GB1	5.125x12	4'-0.00"	24F-V4	5000'	Industrial			8.0	
3	GB3	5.125x12	15'-0.00"	24F-V4	5000'	Industrial			45.0	
1	GB4	5.125x12	13'-0.00"	24F-V4	5000'	Industrial			13.0	
5	• • •	5.125x9 V4	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	Total	50.0	
6	• • •	5.125x12 V4	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	Total	66.0	

				Hardware			
Quantity	Type	Description					Notes
8.0 lb		10dx1.5" Nails					
25.0 lb		10dx3" Nails					

Material List

RB Number	110805
Project Name	Westman Mill
Location	Olympia, WA
Delivery	D2: 3rd Fl 7-10
Plant	Stayton

Operator	Joe Legerski
Office	Boise
Comment	
Status	**Approved For Production**
Report Type	Customer

Red-I™ Products — ***Joists***

Quantity	Type	Series	Depth	Length	Profile	Bevel Cut	WS Att.	Knockouts	Camber	P.E.T.		Footage	Notes
26	A1	Red-I45	11.88	15'-6.00"	None					No		403.0	
6	A11	Red-I45	11.88	4'-6.00"	None					No		27.0	
107	A2	Red-I45	11.88	12'-6.00"	None					No		1337.5	
36	A3	Red-I45	11.88	11'-6.00"	None					No		414.0	
13	A4	Red-I45	11.88	9'-0.00"	None					No		117.0	
21	A5	Red-I45	11.88	17'-6.00"	None					No		367.5	
67	A6	Red-I45	11.88	15'-0.00"	None					No		1005.0	
24	B1	Red-I45	9.5	4'-6.00"	None					No		108.0	1
24	• • •	Red-I45	9.5	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	108.0	
276	• • •	Red-I45	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	3671.0	
Note 1		Use 18 for stair landings below 3rd floor.											

Red-I™ Products — ***Blocking Panels***

Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts				Notes
130		Red-I45	11.875	14.188	1 Attached							
96		Red-I45	11.875	14.188	None							

Connectors

Quantity	Type	Model	Top	Face	Member	Slope	Skew	Flg. Slope	Flg. Angle	Flg. Offset	NetH	Finish	Notes
102	1	ITS1.81/11.88	4-N10	2-N10									
50	2	ITS1.81/9.5	4-N10	2-N10									2
Note 2		Use 36 for stair landings below 3rd floor.											

RedLam™ LVL Products — ***LVL Beams***

Quantity	Type	Size	Length	Grade	P.E.T.			Footage	Notes
2	RA1	5.25x11.88	9'-6.00"	2.0E				19.0	
1	RA2	5.25x11.88	12'-0.00"	2.0E				12.0	
1	RA3	5.25x11.88	14'-0.00"	2.0E				14.0	
2	RA4	5.25x11.88	8'-0.00"	2.0E				16.0	
4	RA5	5.25x11.88	4'-0.00"	2.0E				16.0	
1	RA6	5.25x11.88	10'-0.00"	2.0E				10.0	
11	• • •	5.25x11.88	• • • • • • • •	• • • • •	• • • • • • • • •	• • • • • • •	*Total*	87.0	

RedLam™ LVL Products				LVL Rim Board			
Lineal Ft	Type	Size	Grade	LSL Substitution		Footage	Notes
448		1.75x11.88		N/A		448.0	

RedBuilt™ Products				LSL Rim Board			
Lineal Ft	Type	Size	Grade	LVL Substitution		Footage	Notes
416		1.5x11.88	1.3E	Allowed		416.0	
144		1.5x9.5	1.3E	Allowed		144.0	
144.0	• • •	1.5x9.5	• • • • • • • • •	• • • • •	• • • • • • • • • •	Total	144.0	
416.0	• • •	1.5x11.88	• • • • • • • • •	• • • • •	• • • • • • • • • •	Total	416.0	

Third-Party (Sourced by RedBuilt™)				Glulam Beams						
Quantity	Type	Size	Length	Layup	Camber	Appearance	P.E.T.		Footage	Notes
5	GA1	5.125x9	10'-0.00"	24F-V4	5000'	Industrial			50.0	
2	GB1	5.125x12	4'-0.00"	24F-V4	5000'	Industrial			8.0	
5	• • •	5.125x9 V4	• • • • • • • • •	• • • • •	• • • • • • • • • •	• • • • • • • • •	• • • • •	Total	50.0	
2	• • •	5.125x12 V4	• • • • • • • • •	• • • • •	• • • • • • • • • •	• • • • • • • • •	• • • • •	Total	8.0	

				Hardware			
Quantity	Type	Description					Notes
8.5 lb		10dx1.5" Nails					

Material List

RB Number	110805
Project Name	Westman Mill
Location	Olympia, WA
Delivery	D3: 4th Fl 1-7
Plant	Stayton

Operator	Joe Legerski
Office	Boise
Comment	
Status	**Approved For Production**
Report Type	Customer

Red-I™ Products — ***Joists***

Quantity	Type	Series	Depth	Length	Profile	Bevel Cut	WS Att.	Knockouts	Camber	P.E.T.		Footage	Notes
30	A1	Red-I45	11.88	15'-6.00"	None					No		465.0	
6	A11	Red-I45	11.88	4'-6.00"	None					No		27.0	
183	A2	Red-I45	11.88	12'-6.00"	None					No		2287.5	
36	A3	Red-I45	11.88	11'-6.00"	None					No		414.0	
13	A4	Red-I45	11.88	9'-0.00"	None					No		117.0	
21	A5	Red-I45	11.88	17'-6.00"	None					No		367.5	
147	A6	Red-I45	11.88	15'-0.00"	None					No		2205.0	
6	B1	Red-I45	9.5	4'-6.00"	None					No		27.0	
27	C1	Red-I65	11.88	18'-0.00"	None					No		486.0	
14	C2	Red-I65	11.88	10'-0.00"	None					No		140.0	
6	• • •	Red-I45	9.5	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	27.0	
41	• • •	Red-I65	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	626.0	
436	• • •	Red-I45	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	5883.0	

Red-I™ Products — ***Blocking Panels***

Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts			Notes
200		Red-I45	11.875	14.188	1 Attached						
194		Red-I45	11.875	14.188	None						
30		Red-I65	11.875	13.438	1 Attached						
28		Red-I65	11.875	13.438	None						

				Connectors									
Quantity	**Type**	**Model**	**Top**	**Face**	**Member**	**Slope**	**Skew**	**Flg. Slope**	**Flg. Angle**	**Flg. Offset**	**NetH**	**Finish**	**Notes**
98	1	ITS1.81/11.88	4-N10	2-N10									
12	2	ITS1.81/9.5	4-N10	2-N10									

RedLam™ LVL Products				***LVL Beams***			
Quantity	**Type**	**Size**	**Length**	**Grade**	**P.E.T.**	**Footage**	**Notes**
2	RA1	5.25x11.88	9'-6.00"	2.0E		19.0	
1	RA2	5.25x11.88	12'-0.00"	2.0E		12.0	
1	RA3	5.25x11.88	14'-0.00"	2.0E		14.0	
2	RA4	5.25x11.88	8'-0.00"	2.0E		16.0	
4	RA5	5.25x11.88	4'-0.00"	2.0E		16.0	
1	RA6	5.25x11.88	10'-0.00"	2.0E		10.0	
11	• • •	5.25x11.88			*Total*	87.0	

RedLam™ LVL Products				***LVL Rim Board***		
Lineal Ft	**Type**	**Size**	**Grade**	**LSL Substitution**	**Footage**	**Notes**
832		1.75x11.88		N/A	832.0	

RedBuilt™ Products				***LSL Rim Board***		
Lineal Ft	**Type**	**Size**	**Grade**	**LVL Substitution**	**Footage**	**Notes**
928		1.5x11.88	1.3E	Allowed	928.0	
32		1.5x9.5	1.3E	Allowed	32.0	
32.0	• • •	1.5x9.5		*Total*	32.0	
928.0	• • •	1.5x11.88		*Total*	928.0	

Third-Party (Sourced by RedBuilt™)				***Glulam Beams***					
Quantity	**Type**	**Size**	**Length**	**Layup**	**Camber**	**Appearance**	**P.E.T.**	**Footage**	**Notes**
2	GA1	5.125x9	10'-0.00"	24F-V4	5000'	Industrial		20.0	
2	GB1	5.125x12	4'-0.00"	24F-V4	5000'	Industrial		8.0	
1	GB3	5.125x12	15'-0.00"	24F-V4	5000'	Industrial		15.0	
2	• • •	5.125x9 V4					*Total*	20.0	
3	• • •	5.125x12 V4					*Total*	23.0	

		Hardware	
Quantity	**Type**	**Description**	**Notes**
6.0 lb		10dx1.5" Nails	

Material List

RB Number	110805
Project Name	Westman Mill
Location	Olympia, WA
Delivery	D4: 4th Fl 7-10
Plant	Stayton

Operator	Joe Legerski
Office	Boise
Comment	
Status	**Approved For Production**
Report Type	Customer

Red-I™ Products — ***Joists***

Quantity	Type	Series	Depth	Length	Profile	Bevel Cut	WS Att.	Knockouts	Camber	P.E.T.		Footage	Notes
26	A1	Red-I45	11.88	15'-6.00"	None					No		403.0	
6	A11	Red-I45	11.88	4'-6.00"	None					No		27.0	
107	A2	Red-I45	11.88	12'-6.00"	None					No		1337.5	
36	A3	Red-I45	11.88	11'-6.00"	None					No		414.0	
13	A4	Red-I45	11.88	9'-0.00"	None					No		117.0	
21	A5	Red-I45	11.88	17'-6.00"	None					No		367.5	
67	A6	Red-I45	11.88	15'-0.00"	None					No		1005.0	
6	B1	Red-I45	9.5	4'-6.00"	None					No		27.0	
6	• • •	Red-I45	9.5	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	27.0	
276	• • •	Red-I45	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	3671.0	

Red-I™ Products — ***Blocking Panels***

Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts				Notes
128		Red-I45	11.875	14.188	1 Attached							
96		Red-I45	11.875	14.188	None							

Connectors

Quantity	Type	Model	Top	Face	Member	Slope	Skew	Flg. Slope	Flg. Angle	Flg. Offset	NetH	Finish	Notes
102	1	ITS1.81/11.88	4-N10	2-N10									
12	2	ITS1.81/9.5	4-N10	2-N10									

RedLam™ LVL Products				*LVL Beams*				
Quantity	Type	Size	Length	Grade	P.E.T.		Footage	Notes
2	RA1	5.25x11.88	9'-6.00"	2.0E			19.0	
1	RA2	5.25x11.88	12'-0.00"	2.0E			12.0	
1	RA3	5.25x11.88	14'-0.00"	2.0E			14.0	
2	RA4	5.25x11.88	8'-0.00"	2.0E			16.0	
4	RA5	5.25x11.88	4'-0.00"	2.0E			16.0	
1	RA6	5.25x11.88	10'-0.00"	2.0E			10.0	
11	• • •	5.25x11.88				*Total*	87.0	

RedLam™ LVL Products				*LVL Rim Board*		
Lineal Ft	Type	Size	Grade	LSL Substitution	Footage	Notes
448		1.75x11.88		N/A	448.0	

RedBuilt™ Products				*LSL Rim Board*			
Lineal Ft	Type	Size	Grade	LVL Substitution		Footage	Notes
1024		1.5x11.88	1.3E	Allowed		1024.0	
32		1.5x9.5	1.3E	Allowed		32.0	
32.0	• • •	1.5x9.5			*Total*	32.0	
1024.0	• • •	1.5x11.88			*Total*	1024.0	

Third-Party (Sourced by RedBuilt™)				*Glulam Beams*						
Quantity	Type	Size	Length	Layup	Camber	Appearance	P.E.T.		Footage	Notes
2	GA1	5.125x9	10'-0.00"	24F-V4	5000'	Industrial			20.0	
2	GB1	5.125x12	4'-0.00"	24F-V4	5000'	Industrial			8.0	
2	• • •	5.125x9 V4						*Total*	20.0	
2	• • •	5.125x12 V4						*Total*	8.0	

			Hardware	
Quantity	Type	Description		Notes
6.5 lb		10dx1.5" Nails		

Material List

RB Number	110805
Project Name	Westman Mill
Location	Olympia, WA
Delivery	D5: 5th Fl 1-7
Plant	Stayton

Operator	Joe Legerski
Office	Boise
Comment	
Status	**Approved For Production**
Report Type	Customer

Red-I™ Products — ***Joists***

Quantity	Type	Series	Depth	Length	Profile	Bevel Cut	WS Att.	Knockouts	Camber	P.E.T.		Footage	Notes
30	A1	Red-I45	11.88	15'-6.00"	None					No		465.0	
6	A11	Red-I45	11.88	4'-6.00"	None					No		27.0	
183	A2	Red-I45	11.88	12'-6.00"	None					No		2287.5	
36	A3	Red-I45	11.88	11'-6.00"	None					No		414.0	
13	A4	Red-I45	11.88	9'-0.00"	None					No		117.0	
21	A5	Red-I45	11.88	17'-6.00"	None					No		367.5	
147	A6	Red-I45	11.88	15'-0.00"	None					No		2205.0	
6	B1	Red-I45	9.5	4'-6.00"	None					No		27.0	
27	C1	Red-I65	11.88	18'-0.00"	None					No		486.0	
14	C2	Red-I65	11.88	10'-0.00"	None					No		140.0	
6	• • •	Red-I45	9.5	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	27.0	
41	• • •	Red-I65	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	626.0	
436	• • •	Red-I45	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	5883.0	

Red-I™ Products — ***Blocking Panels***

Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts			Notes
200		Red-I45	11.875	14.188	1 Attached						
200		Red-I45	11.875	14.188	None						
30		Red-I65	11.875	13.438	1 Attached						
30		Red-I65	11.875	13.438	None						

				Connectors									
Quantity	**Type**	**Model**	**Top**	**Face**	**Member**	**Slope**	**Skew**	**Flg. Slope**	**Flg. Angle**	**Flg. Offset**	**NetH**	**Finish**	**Notes**
96	1	ITS1.81/11.88	4-N10	2-N10									
12	2	ITS1.81/9.5	4-N10	2-N10									

RedLam™ LVL Products				***LVL Beams***				
Quantity	**Type**	**Size**	**Length**	**Grade**	**P.E.T.**		**Footage**	**Notes**
2	RA1	5.25x11.88	9'-6.00"	2.0E			19.0	
1	RA2	5.25x11.88	12'-0.00"	2.0E			12.0	
1	RA3	5.25x11.88	14'-0.00"	2.0E			14.0	
2	RA4	5.25x11.88	8'-0.00"	2.0E			16.0	
4	RA5	5.25x11.88	4'-0.00"	2.0E			16.0	
1	RA6	5.25x11.88	10'-0.00"	2.0E			10.0	
11	• • •	5.25x11.88				*Total*	87.0	

RedLam™ LVL Products				***LVL Rim Board***		
Lineal Ft	**Type**	**Size**	**Grade**	**LSL Substitution**	**Footage**	**Notes**
816		1.75x11.88		N/A	816.0	

RedBuilt™ Products				***LSL Rim Board***			
Lineal Ft	**Type**	**Size**	**Grade**	**LVL Substitution**		**Footage**	**Notes**
624		1.5x11.88	1.3E	Allowed		624.0	
32		1.5x9.5	1.3E	Allowed		32.0	
32.0	• • •	1.5x9.5			*Total*	32.0	
624.0	• • •	1.5x11.88			*Total*	624.0	

Third-Party (Sourced by RedBuilt™)				***Glulam Beams***						
Quantity	**Type**	**Size**	**Length**	**Layup**	**Camber**	**Appearance**	**P.E.T.**		**Footage**	**Notes**
2	GA1	5.125x9	10'-0.00"	24F-V4	5000'	Industrial			20.0	
2	GB1	5.125x12	4'-0.00"	24F-V4	5000'	Industrial			8.0	
1	GB3	5.125x12	15'-0.00"	24F-V4	5000'	Industrial			15.0	
1	GC1	5.125x16.5	16'-0.00"	24F-V4	5000'	Industrial			16.0	1
1	GC2	5.125x16.5	19'-0.00"	24F-V4	5000'	Industrial			19.0	1
2	• • •	5.125x9 V4						*Total*	20.0	
3	• • •	5.125x12 V4						*Total*	23.0	
2	• • •	5.125x16.5 V4						*Total*	35.0	
Note 1		Roof beams from S2.06								

			Hardware		
Quantity	**Type**	**Description**			**Notes**
6.0 lb		10dx1.5" Nails			

Material List

RB Number	110805
Project Name	Westman Mill
Location	Olympia, WA
Delivery	D6: 5th Fl 7-10
Plant	Stayton

Operator	Joe Legerski
Office	Boise
Comment	
Status	**Approved For Production**
Report Type	Customer

Red-I™ Products — ***Joists***

Quantity	Type	Series	Depth	Length	Profile	Bevel Cut	WS Att.	Knockouts	Camber	P.E.T.		Footage	Notes
26	A1	Red-I45	11.88	15'-6.00"	None					No		403.0	
6	A11	Red-I45	11.88	4'-6.00"	None					No		27.0	
107	A2	Red-I45	11.88	12'-6.00"	None					No		1337.5	
36	A3	Red-I45	11.88	11'-6.00"	None					No		414.0	
13	A4	Red-I45	11.88	9'-0.00"	None					No		117.0	
21	A5	Red-I45	11.88	17'-6.00"	None					No		367.5	
67	A6	Red-I45	11.88	15'-0.00"	None					No		1005.0	
6	B1	Red-I45	9.5	4'-6.00"	None					No		27.0	
6	• • •	Red-I45	9.5	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	27.0	
276	• • •	Red-I45	11.88	• • • • •	• • • • • • • • •	• • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	*Total*	3671.0	

Red-I™ Products — ***Blocking Panels***

Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts			Notes
125		Red-I45	11.875	14.188	1 Attached						
96		Red-I45	11.875	14.188	None						

Connectors

Quantity	Type	Model	Top	Face	Member	Slope	Skew	Flg. Slope	Flg. Angle	Flg. Offset	NetH	Finish	Notes
100	1	ITS1.81/11.88	4-N10	2-N10									
12	2	ITS1.81/9.5	4-N10	2-N10									

RedLam™ LVL Products				*LVL Beams*				
Quantity	Type	Size	Length	Grade	P.E.T.		Footage	Notes
2	RA1	5.25x11.88	9'-6.00"	2.0E			19.0	
1	RA2	5.25x11.88	12'-0.00"	2.0E			12.0	
1	RA3	5.25x11.88	14'-0.00"	2.0E			14.0	
2	RA4	5.25x11.88	8'-0.00"	2.0E			16.0	
4	RA5	5.25x11.88	4'-0.00"	2.0E			16.0	
1	RA6	5.25x11.88	10'-0.00"	2.0E			10.0	
11	• • •	5.25x11.88				*Total*	87.0	

RedLam™ LVL Products				*LVL Rim Board*			
Lineal Ft	Type	Size	Grade	LSL Substitution		Footage	Notes
448		1.75x11.88		N/A		448.0	

RedBuilt™ Products				*LSL Rim Board*			
Lineal Ft	Type	Size	Grade	LVL Substitution		Footage	Notes
416		1.5x11.88	1.3E	Allowed		416.0	
16		1.5x9.5	1.3E	Allowed		16.0	
16.0	• • •	1.5x9.5			*Total*	16.0	
416.0	• • •	1.5x11.88			*Total*	416.0	

Third-Party (Sourced by RedBuilt™)				*Glulam Beams*						
Quantity	Type	Size	Length	Layup	Camber	Appearance	P.E.T.		Footage	Notes
2	GA1	5.125x9	10'-0.00"	24F-V4	5000'	Industrial			20.0	
2	GB1	5.125x12	4'-0.00"	24F-V4	5000'	Industrial			8.0	
2	• • •	5.125x9 V4						*Total*	20.0	
2	• • •	5.125x12 V4						*Total*	8.0	

				Hardware		
Quantity	Type	Description				Notes
6.5 lb		10dx1.5" Nails				

Material List

RB Number	110805
Project Name	Westman Mill
Location	Olympia, WA
Delivery	D7: 3rd Fl Grid 6
Plant	Stayton

Operator	Joe Legerski
Office	Boise
Comment	
Status	**Approved For Production**
Report Type	Customer

Red-I™ Products — ***Blocking Panels***

Quantity	Type	Series	Depth	Length	End Blocks	Custom Depth		Knockouts			Notes
20		Red-I45	11.875	14.188	None						
20		Red-I65	11.875	13.438	None						

RedLam™ LVL Products — ***LVL Rim Board***

Lineal Ft	Type	Size	Grade	LSL Substitution		Footage	Notes
32		1.75x11.88		N/A		32.0	

CM 7/30/19- See Rev. 03 provided on page #28 which includes beam revisions per RFI 008

RedBuilt™, LLC
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Ph: (208) 395-2400 • Fx: (208) 395-2443

RedBuilt Calculations

Date: 5/24/2019
Project: Westman Mill
Location: Olympia, WA
Job No.: 110805

The professional engineer's seal on this letter is to confirm the RedBuilt products identified on the attached calculation(s) are designed to support the loads shown for the span(s) and spacing(s) indicated. The attached calculation(s) assumes that adequate detailing has been performed by others in accordance with RedBuilt recommendations.

I have only reviewed the RedBuilt calculation(s). I have not reviewed the project construction documents or any other project information. The design loads, span(s) and spacing(s) were provided by others. If this information is incorrect or incomplete, notify your RedBuilt Project Manager, Tim Kolb at 208-395-2454, immediately. The suitability and application of the identified RedBuilt products for this project are the responsibility of the *Design Professional of Record*.

Calculation(s) included:

- Type(s): A1, A1-overspace, A5, A5-overspace, B1, A11, A7, A7-overspace, C2, C1 & A10

RedBuilt™ Product Approvals:

RedLam™ ESR 2993, Red-I™ Joists: ESR 2994, Open-web trusses (Red-L™, Red-W™, Red-S™, Red-M™, Red-H™): ESR 1774

RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/21/19 9:01 AM
Designer: Joe Legerski
Comment: @ flush beam

Type: A1

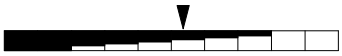
11.875" Red-I45™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	42%	750	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	60%	2812	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	52%	0.195	0.375	L / 925	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	49%	0.365	0.750	L / 493	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 5.4



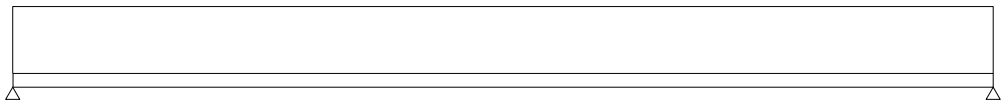
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, flexible support. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	400 (100)	400 (100)
Dead Reaction (lb)	350	350
Total Reaction (lb) (DOL%)	750 (100)	750 (100)
Bearing	Flush	Bottom
Support	Beam	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Left	ITS1.81/11.88	4-10dx1.5"	2-10dx1.5"	2-Strong-Grip	LVL DF/SP	5.25x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.



15'- 0.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/25/19 10:59 AM
Designer: Joe Legerski
Comment: 2" overspace

Type: A1-overspace

11.875" Red-I45™ @ 18" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	47%	844	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	68%	3164	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	58%	0.217	0.375	L / 829	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	54%	0.407	0.750	L / 442	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 4.6

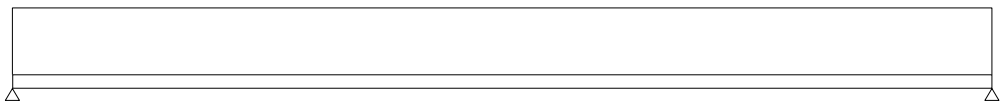
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, flexible support. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	450 (100)	450 (100)
Dead Reaction (lb)	394	394
Total Reaction (lb) (DOL%)	844 (100)	844 (100)
Bearing	Flush	Bottom
Support	Beam	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Left	ITS1.81/11.88	4-10dx1.5"	2-10dx1.5"	2-Strong-Grip	LVL DF/SP	5.25x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.



15'- 0.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	18"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/20/19 3:55 PM
Designer: Joe Legerski
Comment: longest I45

Type: A5

11.875" Red-I45™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	47%	838	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	75%	3507	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	70%	0.294	0.419	L / 683	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	66%	0.552	0.838	L / 364	L / 240	1.0D+1.0L	All Spans	PASS

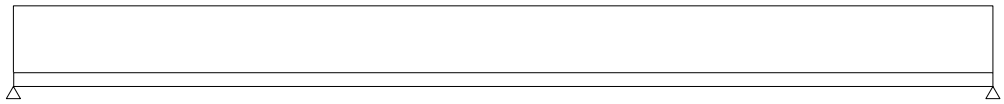
FloorChoice™ Rating: 2.7

Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, rigid supports. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	447 (100)	447 (100)
Dead Reaction (lb)	391	391
Total Reaction (lb) (DOL%)	838 (100)	838 (100)
Bearing	Bottom	Bottom
Support	Wall	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

SPANS AND LOADS

Dimensions represent horizontal design spans.



16'- 9.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/25/19 11:00 AM
Designer: Joe Legerski
Comment: 2" overspace

Type: A5-overspace

11.875" Red-I45™ @ 18" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	53%	942	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	84%	3945	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	78%	0.328	0.419	L / 612	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	73%	0.615	0.838	L / 327	L / 240	1.0D+1.0L	All Spans	PASS

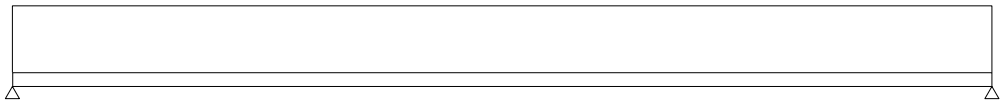
FloorChoice™ Rating: 2.1

Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, rigid supports. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	502 (100)	502 (100)
Dead Reaction (lb)	440	440
Total Reaction (lb) (DOL%)	942 (100)	942 (100)
Bearing	Bottom	Bottom
Support	Wall	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

SPANS AND LOADS

Dimensions represent horizontal design spans.



16'- 9.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	18"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/20/19 3:58 PM
Designer: Joe Legerski
Comment: stair landing

Type: B1

9.5" Red-I45™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	21%	340	1590	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	10%	361	3620	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	11%	0.011	0.106	L / 999+	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	6%	0.014	0.213	L / 999+	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 9.9

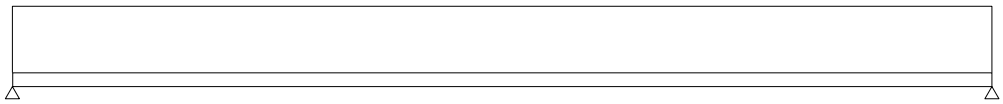
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, rigid supports. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	283 (100)	283 (100)
Dead Reaction (lb)	57	57
Total Reaction (lb) (DOL%)	340 (100)	340 (100)
Bearing	Flush	Flush
Support	Ledger	Ledger
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Left	ITS1.81/9.5	4-10dx1.5"	2-10dx1.5"	2-Strong-Grip	LSL	1.5x9.5
Right	ITS1.81/9.5	4-10dx1.5"	2-10dx1.5"	2-Strong-Grip	LSL	1.5x9.5

SPANS AND LOADS

Dimensions represent horizontal design spans.



4'- 3.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	100	20	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/25/19 2:58 PM
Designer: Joe Legerski
Comment: stair landing

Type: A11

11.875" Red-I45™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	20%	360	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	9%	405	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	8%	0.009	0.113	L / 999+	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	5%	0.011	0.225	L / 999+	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 9.9

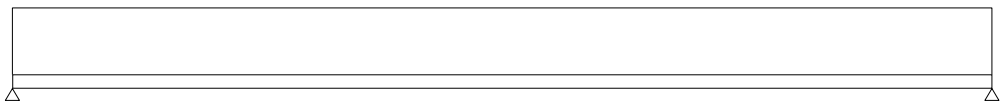
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, rigid supports. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	300 (100)	300 (100)
Dead Reaction (lb)	60	60
Total Reaction (lb) (DOL%)	360 (100)	360 (100)
Bearing	Bottom	Flush
Support	Wall	Ledger
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Right	ITS1.81/11.88	4-10dx1.5"	2-10dx1.5"	2-Strong-Grip	LSL	1.5x9.5

SPANS AND LOADS

Dimensions represent horizontal design spans.



4'- 6.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	100	20	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/21/19 7:24 AM
Designer: Joe Legerski
Comment: @ WF beam

Type: A7

11.875" Red-I45™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	39%	688	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	50%	2363	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	41%	0.141	0.344	L / 999+	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	38%	0.265	0.688	L / 624	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 7.4

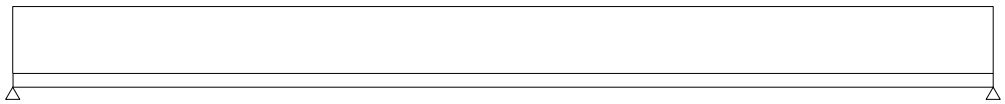
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, flexible support. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	367 (100)	367 (100)
Dead Reaction (lb)	321	321
Total Reaction (lb) (DOL%)	688 (100)	688 (100)
Bearing	Flush	Bottom
Support	Beam	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Left	IUS1.81/11.88		10-10d	2-Strong-Grip	LVL DF/SP	5.25x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.



13'- 9.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/25/19 11:02 AM
Designer: Joe Legerski
Comment: 2" overspace

Type: A7-overspace

11.875" Red-I45™ @ 18" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	43%	773	1785	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	57%	2659	4685	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	46%	0.157	0.344	L / 999+	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	43%	0.295	0.688	L / 559	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 6.8

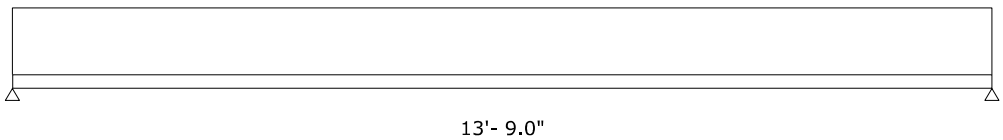
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, flexible support. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	412 (100)	412 (100)
Dead Reaction (lb)	361	361
Total Reaction (lb) (DOL%)	773 (100)	773 (100)
Bearing	Flush	Bottom
Support	Beam	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Left	IUS1.81/11.88		10-10d	2-Strong-Grip	LVL DF/SP	5.25x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.



13'- 9.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	18"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 5/24/19 8:41 AM
Designer: Joe Legerski
Comment: Elevator lobby

Type: C2

11.875" Red-I65™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	21%	475	2255	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	17%	1128	6750	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	12%	0.029	0.238	L / 999+	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	11%	0.054	0.475	L / 999+	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 9.8

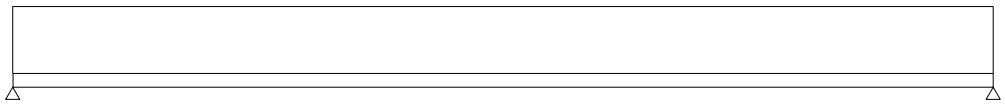
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, flexible support. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	253 (100)	253 (100)
Dead Reaction (lb)	222	222
Total Reaction (lb) (DOL%)	475 (100)	475 (100)
Bearing	Bottom	Flush
Support	Wall	Beam
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Right	IUS2.56/11.88		10-10d	2-Strong-Grip	LVL DF/SP	3.5x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.



9'- 6.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

\\redb-file400v\Secure_Sold Projects\11xxxx\1108xx\110805 Westman Mill\Design\110805 We.red

RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 5/24/19 8:43 AM
Designer: Joe Legerski
Comment: Elevator lobby

Type: C1

11.875" Red-I65™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	32%	712	2255	Floor(100%)	1.0D+1.0L	All Spans	PASS
Positive Moment (ft-lb)	38%	2538	6750	Floor(100%)	1.0D+1.0L	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	34%	0.121	0.356	L / 999+	L / 480	1.0D+1.0L	All Spans	PASS
Span Total	32%	0.226	0.713	L / 756	L / 240	1.0D+1.0L	All Spans	PASS

FloorChoice™ Rating: 8.0

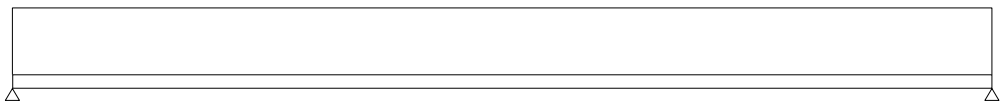
Performance rating is based on: 24 oc (23/32", 3/4") sheathing, nailed only, 1 1/2" Lightweight Concrete topping, 1/2" Gypsum ceiling, simple span, flexible support. RedSpec has not performed a structural analysis of the sheathing.

SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	380 (100)	380 (100)
Dead Reaction (lb)	333	333
Total Reaction (lb) (DOL%)	713 (100)	713 (100)
Bearing	Bottom	Flush
Support	Wall	Beam
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Right	IUS2.56/11.88		10-10d	2-Strong-Grip	LVL DF/SP	3.5x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.



14'- 3.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Floor(100%)	40	35	0	16"	Floor Joist

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Deflection analysis is based on composite action with 24 oc (23/32", 3/4") sheathing, nailed only.
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

\\redb-file400v\Secure_Sold Projects\11xxxx\1108xx\110805 Westman Mill\Design\110805 We.red

RedSpec™ by RedBuilt™
v7.1.9

Project: Westman Mill
Location: Olympia, WA
Folder: Floors
Date: 2/26/19 7:21 AM
Designer: Joe Legerski
Comment: Low roof - longest

Type: A10

11.875" Red-I45™ @ 16" o.c.

This product meets or exceeds the set design controls for the application and loads listed

DESIGN CONTROLS	%	Design	Allow.	DOL	Combination	Pattern	Pass/Fail
Shear (lb)	12%	253	2053	Snow(115%)	1.0D+1.0S	All Spans	PASS
Positive Moment (ft-lb)	9%	479	5388	Snow(115%)	1.0D+1.0S	All Spans	PASS
Negative Moment (ft-lb)	1%	-105	7496	Wind(160%)	0.6D+0.6W	All Spans	PASS

DEFLECTIONS (in)	%	Design	Allow.	Design	Allow.	Combination	Pattern	Pass/Fail
Span Live	4%	0.014	0.379	L / 999+	L / 240	1.0D+1.0S	All Spans	PASS
Span Total	5%	0.024	0.506	L / 999+	L / 180	1.0D+1.0S	All Spans	PASS

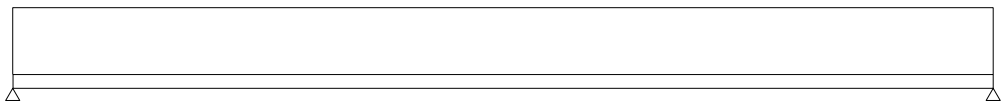
SUPPORTS	Support 1	Support 2
Live Reaction, Critical (lb) (DOL%)	152 (115)	152 (115)
Dead Reaction (lb)	101	101
Total Reaction (lb) (DOL%)	253 (115)	253 (115)
Net Uplift Reaction (lb) (DOL%)	-55 (160)	-55 (160)
Bearing	Flush	Bottom
Support	Beam	Wall
Req'd Bearing, No Stiffeners (in)	1.75	1.75
Req'd Bearing, Stiffeners (in)	-	-

HANGERS	Model	Top	Face	Member	Header	Size
Left	IUS1.81/11.88		10-10d	2-Strong-Grip	LVL DF/SP	5.25x11.875

SPANS AND LOADS

Dimensions represent horizontal design spans.

Member Slope: 0/12



7'- 7.0"

APPLICATION LOADS

Type	Units	DOL	Live	Dead	Partition	Tributary	Member Type
Uniform	psf	Snow(115%)	30	20	0	16"	Snow Roof Joist

ADDITIONAL LOADS

Type	Units	DOL	Live	Dead	Location from left	Application	Comment
Uniform	psf	Wind(160%)	-38.2	0	0'-0.0" to 7'-7.0"	Adds To	Gross ULT

NOTES

- Building code and design methodology: 2015 IBC ASD (US).
- Continuous lateral support required at top edge. Lateral support at bottom edge shall be per RedBuilt recommendations.

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I-JOIST INSTALLATION INFORMATION

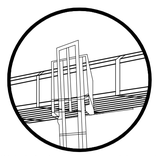
ATTENTION BUILDER

Enclosed is IMPORTANT information on how to safely and properly install RedBuilt™ Joists. Personal injury or death may result from failure to read and follow this information.

RedBUILT™ Engineered Wood Products

1 PRODUCT HANDLING

THIS



Lift joists from underside only.
DO NOT dump or drop from truck.

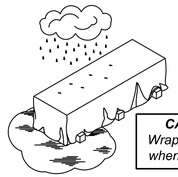
NOT THIS

DO NOT lift joists by top flange

DO NOT lift joists in the flat orientation

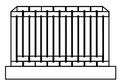
2 PRODUCT STORAGE

THIS



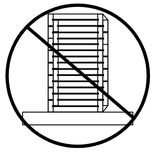
CAUTION
Wrap is slippery when wet or icy.

- Protect products from sun and water.
- Use support blocks at 10' on-center to keep products out of mud and water.



Store and handle joists in vertical orientation. Leave joists banded together until ready to install.

NOT THIS



DO NOT store joists in the flat orientation

WARNING
Workers should stay clear when cutting the banding to avoid possible injury from flying banding or toppling joists.

3 GENERAL INFORMATION

- All nails specified in framing package to be "common" nails unless noted otherwise.
- All joists not marked "Precision End Trim" (PET) on the material list may be sent up to 2'-0" longer than the length indicated on the material list.
- Do not scale drawings: written dimensions take precedence.
- Manufacturer's responsibility is only for the design of the RedBuilt™ products and not for any supporting structure or loads other than indicated herein. All materials shall be supplied by others, unless specifically noted as "by RB" or "by RedBuilt™" herein.

Abbreviation	Term
AFP	Approved for Production
AOR	Architect of Record
CL	Centerline
DBL	Double
DL	Dead Load
EOR	Engineer of Record
FBO	Framing by Others
FOC	Face of Concrete
FOS	Face of Stud
GC	General Contractor
LL	Live Load
LSL	Laminated Strand Lumber
LVL	Laminated Veneer Lumber
OFA	Out for Approval
OW	Open-Web Trusses by RedBuilt™
PLT	Plate
PSL	Parallel Stranded Lumber
RB	RedBuilt™

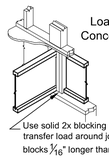
4 WEB STIFFENER REQUIREMENTS

- *Web stiffener requirements vary based on joist series and depth; they are always required at bearing on joists 20" in depth or greater.*
- *See plan/details for requirements specific to the joists being used on this project.*
- *If web stiffeners are required at hanger locations, they must be attached before placing joist in hanger.*

Web Stiffener Size and Material

Flange Width	Web Stiffener Size	Web Stiffener Material
1¾"	⅝"x2⅝6"	Sheathing (with face grain vertical) that meets the requirements of PS1 or PS2
2.3", 2½"	7⁄8"x2⅝6"	
3½"	2x4	Construction grade or better Red-I90HS™ Joists require LVL/LSL

Load Transfer at Concentrated Loads

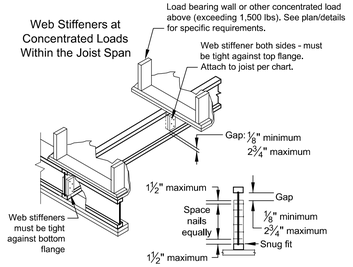


Use solid 2x blocking under post to transfer load around joist. Cut blocks 1⁄16" longer than joist depth.

Nailing Quantities for Web Stiffener Attachment

I-Joist Depth	Red-I45L™ & Red-I45™ Joists	Red-I58™ & Red-I65™ Joists	Red-I90™ & Red-I90H™ Joists		Red-I90HS™ Joists
	8dx2½" Nails	8dx2½" Nails	16dx3½"Nails		16dx3½"Nails
	End or Intermediate	End or Intermediate	End	Intermediate	End or Intermediate
9½"	3	N/A	N/A	N/A	N/A
11⅞"	3	3	3	3	4
14"	3	5	3	3	6
16"	3	6	4	4	6
18"	3	7	4	4	8
20"	3	8	5	5	10
22"	N/A	9	6	11	10
24"	N/A	10	6	13	12
26"	N/A	11	7	14	14
28"	N/A	12	8	15	14
30"	N/A	13	8	17	16
32"	N/A	N/A	9	18	18

Web Stiffeners at Concentrated Loads Within the Joist Span

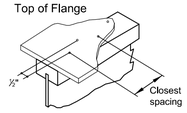


Web Stiffeners at Bearing Points

5 FLANGE AND BEAM NAILING

Nailing pattern to be per contract drawings and specifications. In addition, nail spacing shall comply with the criteria listed.

Joist attachment: For 1⅜" thick flanges, attach with a minimum of one 8dx2½" box nail, each side of Red-I™ joist at bearing. Use 10dx3" box nails with 1½" thick flanges, 12dx3¼" box nails with 1¾" thick flanges and 16dx3½" box nails with 2⅜" thick flanges. Maintain 1½" minimum end distance to minimize splitting.



IMPORTANT
Nailing closer than specified may cause the flange to split.

Nailing of sheathing

Nail Type	Nail Size	Closest On-Center Spacing Per Row(1)		
		1½" Thick I-Joist Flange(2)	1⅜" Thick I-Joist Flange(2)(6)	RedLam™ LVL Narrow Face
8dx2 1/2"(3)	.113" x 2½"	2"	4"	3"
	.131" x 2½"	2"	4"	3"
10d	.128" x 3"	2"	4"	3"
	.148" x 3"	3"	4"	4"(4)
12d	.128" x 3¼"	2"	4"	3"
	.148" x 3¼"	3"	4"	4"(4)
16d	.135" x 3½"	3"	4"	4"
	.148" x 3¼"	3"	4"	4"(4)
	.162" x 3½"	4"	6"	8"(5)

(1) If more than one row of nails is used, offset rows at least ½" and stagger. Maintain ⅜" minimum edge distance.
(2) Sheathing must be nailed to the full length of the top (or compression) flange on the I-joist with the maximum nail spacing as follows:
- 18" OC for I-joists with flange widths less than 2".
- 24" OC for I-joists with flange widths greater than 2".

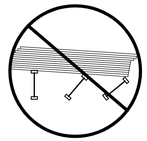
(3) 14-gauge staples may be a direct substitute for 8dx2½" nails if a minimum penetration of 1" into the flange is maintained.
(4) Minimum spacing must be 5" for 4 rows of nails.
(5) Spacing may be reduced to 5" where nail penetration does not exceed 1⅜".
(6) For diaphragm nailing criteria see section 4.2.7 AWC SDPWS-2008.
Maximum diaphragm nail penetration for Red-I45L™ and Red-I58™ joists is 1⅜".

6 INSTALLATION BRACING

DO NOT walk on the joists until all joist bearings and bracing have been permanently attached. Injury may result.

WARNING
Without correctly installed bracing, joists can buckle sideways or roll over, causing death, serious personal injury, or property damage.

NOTICE
Installation bracing and procedures, as well as the safety of workers, are the responsibility of the installer. The installer should make sure that this installation information is understood by all persons involved in the joist installation.



DO NOT stack building materials on unsheathed joists. Stack only over beams or walls.

IMPORTANT
Strut lines must extend to braced end wall, beam or sheathing.

Strut lines (1x4 minimum)
- 6' on-center for joists with 1¾" wide flanges
- 8' on-center for joists with 2.3" & 2½" wide flanges
- 10' on-center for joists with 3½" wide flanges

Strut lines are required at all bearing locations where joists are not otherwise braced.

Cantilever bracing may be required. See plan.

Ends of cantilevers must be laterally stabilized with blocking, bracing or rim joist

I-joist blocking panel (or equal) required at each side of I-joist for lateral stability and to transfer wall load above (as occurs) to bearing wall below. See plan/details for specific applications.

Blocking attachment: Minimum 10dx3" nails at 12" OC each side of I-joist blocking panel. When used for shear transfer, nail to bearing plate with connections equivalent to sheathing nail schedule.

4' (minimum) strip of sheathing (temporary or permanent) if there is no braced end wall. If permanent, fasten per plans and specifications. If temporary, use 8dx2 1/2" (0.113"Øx2½") nails at 12" OC.

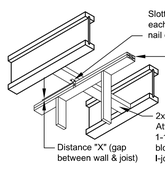
Fill all nail holes with the proper nails

Stack building materials over walls or beams only

Two 8d (0.113"Øx2½") nails minimum per joist

WARNING
- *All blocking, hangers, rim boards, and rim joists at the end supports of the I-joists must be completely installed and properly nailed.*
- *I-joist flanges must remain straight within ½" from true alignment.*
- *Sheathing must be completely attached to each I-joist before additional loads can be placed on the system.*
- *Without bracing, buckling sideways or rollover is highly probable under light construction loads like a worker or stacked sheathing.*

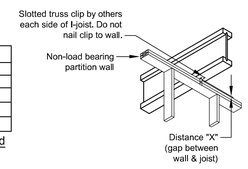
7 STANDARD INSTALLATION DETAILS

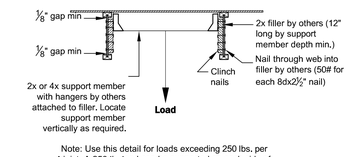


Spacing of clips and blocks per EOR

Distance "X"			
Under Roof		Under Floor	
Span	"X"	Span	"X"
0'-20'	1¼"	0'-20'	¾"
20'-40'	2½"	20'-40'	1¼"
40'-60'	4"	40'-60'	2"

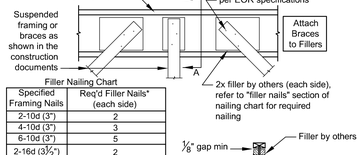
Recommended Attachment for Non-load Bearing Partitions





Note: Use this detail for loads exceeding 250 lbs. per I-joist. A 250 lb. load can be supported on each side of the joist's bottom flange at 5'-0" on center, provided the load is included in normal design loads.

Support Detail for Loads Supported from I-joist



Filler Nailing Chart

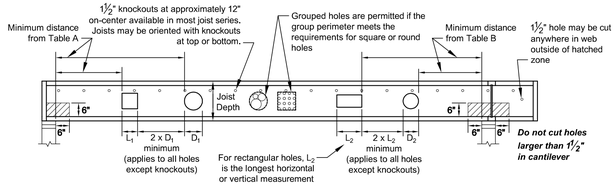
Specified Framing Nails	Req'd Filler Nails* (each side)
2-10d (3")	2
4-10d (3")	3
6-10d (3")	5
2-16d (3½")	2
4-16d (3½")	3
6-16d (3½")	5

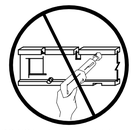
* Filler nails shall be 16d sinker or 12d common (0.148"Ø, 3¼" long)

Suspended Framing from I-joists

Rev 06/17

8 ALLOWABLE HOLES





DO NOT cut, drill, or notch flanges

Table A - End Support

Minimum distance from edge of hole to inside face of nearest end support

Joist Depth	Joist Series	Round Hole Size 2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		Square or Rectangular Hole Size 1.25"	2.5"	4"	5"	6"	7"	8.5"	9.5"	10.5"	13"
9½"	I45L / I45	1'-0"	***2'-6"***	***4'-0"***	-	-	-	-	-	-	-
	I58 / I65	1'-6"	***3'-0"***	***5'-0"***	-	-	-	-	-	-	-
	I90	2'-0"	3'-6"	***5'-6"***	-	-	-	-	-	-	-
11⅞"	I45L / I45	1'-0"	2'-0"	***3'-6"***	***5'-0"***	-	-	-	-	-	-
	I58 / I65	1'-6"	3'-0"	***4'-6"***	***6'-6"***	-	-	-	-	-	-
	I90 / I90H	1'-6"	3'-6"	5'-6"	***7'-0"***	-	-	-	-	-	-
	I90HS	2'-0"	4'-0"	6'-6"	-	-	-	-	-	-	-
14"	I45L / I45	1'-0"	2'-0"	3'-0"	***4'-0"***	***6'-0"***	-	-	-	-	-
	I58 / I65	1'-0"	2'-6"	4'-0"	***5'-6"***	***8'-0"***	-	-	-	-	-
	I90 / I90H	1'-0"	3'-0"	5'-0"	6'-6"	***9'-0"***	-	-	-	-	-
	I90HS	2'-0"	4'-0"	6'-0"	8'-0"	-	-	-	-	-	-
16"	I45 / I65	1'-0"	1'-6"	3'-0"	4'-0"	***5'-0"***	***8'-0"***	-	-	-	-
	I58	1'-0"	1'-6"	3'-0"	4'-6"	***6'-6"***	***9'-6"***	-	-	-	-
	I90 / I90H	1'-0"	2'-0"	4'-0"	6'-0"	8'-6"	***10'-6"***	-	-	-	-
	I90HS	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"	-	-	-	-	-
18"	I45 / I65	1'-0"	1'-0"	2'-6"	3'-6"	4'-6"	***6'-0"***	***9'-0"***	-	-	-
	I90 / I90H	1'-0"	1'-0"	2'-6"	5'-0"	7'-0"	9'-6"	***12'-6"***	-	-	-
	I90HS	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	-	-	-	-
20"	I45 / I65	1'-0"	1'-0"	2'-0"	3'-0"	4'-0"	5'-0"	***7'-0"***	***10'-6"***	-	-
	I90 / I90H	1'-0"	1'-0"	2'-0"	4'-0"	6'-0"	8'-0"	11'-0"	***14'-0"***	-	-
	I90HS	2'-0"	4'-0"	6'-0"	8'-0"	9'-6"	11'-6"	14'-0"	-	-	-
22"	I65	1'-0"	1'-0"	1'-6"	2'-6"	3'-6"	4'-6"	5'-6"	7'-6"	***11'-6"***	-
	I90 / I90H	1'-0"	1'-0"	1'-0"	3'-0"	5'-0"	7'-0"	9'-0"	12'-6"	***16'-0"***	-
	I90HS	2'-0"	4'-0"	6'-0"	8'-0"	9'-6"	11'-6"	13'-6"	16'-0"	-	-
24" to 26"	I65	1'-0"	1'-0"	1'-6"	2'-6"	3'-6"	4'-0"	5'-0"	6'-0"	7'-6"	***10'-0"***
	I90 / I90H	1'-0"	1'-0"	1'-0"	3'-0"	5'-0"	6'-6"	8'-6"	10'-6"	14'-6"	***18'-6"***
	I90HS	2'-0"	4'-0"	6'-0"	7'-6"	9'-6"	11'-6"	13'-6"	15'-0"	18'-0"	-
28" to 32"	I65	1'-0"	2'-0"	2'-6"	3'-6"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	10'-6"
	I90 / I90H	1'-0"	1'-0"	2'-6"	4'-0"	5'-6"	6'-6"	8'-0"	9'-6"	11'-6"	14'-6"
	I90HS	2'-0"	3'-6"	5'-0"	7'-0"	8'-6"	10'-0"	12'-0"	13'-6"	16'-0"	18'-6"

Table B - Intermediate or Cantilever Support

Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support

Joist Depth	Joist Series	Round Hole Size 2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		Square or Rectangular Hole Size 1.25"	2.5"	4"	5"	6"	7"	8.5"	9.5"	10.5"	13"
9½"	I45L / I45	1'-0"	***2'-6"***	***5'-0"***	-	-	-	-	-	-	-
	I58 / I65	1'-6"	***4'-0"***	***6'-6"***	-	-	-	-	-	-	-
	I90	3'-0"	5'-6"	***8'-0"***	-	-	-	-	-	-	-
11⅞"	I45L / I45	1'-0"	***2'-0"***	***4'-0"***	***6'-6"***	-	-	-	-	-	-
	I58 / I65	1'-0"	3'-0"	***5'-6"***	***8'-6"***	-	-	-	-	-	-
	I90 / I90H	2'-0"	4'-6"	7'-6"	***10'-0"***	-	-	-	-	-	-
	I90HS	3'-6"	6'-0"	9'-0"	***12'-6"***	-	-	-	-	-	-
14"	I45L / I45	1'-0"	1'-0"	3'-0"	***5'-0"***	***7'-6"***	-	-	-	-	-
	I58 / I65	1'-0"	1'-6"	4'-0"	***7'-0"***	***10'-6"***	-	-	-	-	-
	I90 / I90H	1'-0"	3'-6"	6'-0"	9'-0"	***12'-6"***	-	-	-	-	-
	I90HS	4'-0"	6'-6"	9'-0"	11'-6"	-	-	-	-	-	-
16"	I45 / I65	1'-0"	1'-0"	2'-0"	***4'-0"***	***6'-6"***	***10'-0"***	-	-	-	-
	I58	1'-0"	1'-0"	2'-0"	***4'-0"***	***6'-6"***	***10'-0"***	-	-	-	-
	I90 / I90H	1'-0"	1'-6"	4'-6"	8'-0"	11'-0"	***14'-6"***	-	-	-	-
	I90HS	3'-0"	6'-0"	8'-6"	11'-6"	14'-0"	-	-	-	-	-
18"	I45 / I65	1'-0"	1'-0"	1'-0"	2'-6"	***5'-0"***	***8'-0"***	***12'-0"***	-	-	-
	I90 / I90H	1'-0"	1'-0"	2'-6"	5'-6"	9'-0"	12'-6"	***17'-0"***	-	-	-
	I90HS	2'-6"	5'-6"	8'-0"	11'-0"	13'-6"	16'-6"	-	-	-	-
20"	I45 / I65	1'-0"	1'-0"	1'-0"	1'-0"	3'-6"	***6'-0"***	***9'-0"***	***13'-6"***	-	-
	I90 / I90H	1'-0"	1'-0"	1'-0"	3'-6"	7'-0"	10'-6"	14'-6"	***19'-6"***	-	-
	I90HS	2'-0"	5'-0"	7'-6"	10'-6"	13'-6"	16'-0"	19'-6"	-	-	-
22"	I65	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	4'-6"	7'-0"	10'-0"	***15'-0"***	-
	I90 / I90H	1'-0"	1'-0"	1'-6"	4'-0"	6'-6"	9'-6"	12'-0"	16'-0"	-	-
	I90HS	1'-0"	3'-0"	6'-0"	9'-0"	12'-6"	15'-6"	18'-6"	22'-0"	-	-
24" to 26"	I65	1'-0"	1'-0"	1'-0"	1'-6"	3'-0"	4'-6"	6'-0"	7'-6"	10'-0"	***13'-6"***
	I90 / I90H	1'-0"	1'-0"	1'-0"	3'-0"	4'-6"	6'-0"	7'-6"	9'-0"	11'-0"	***14'-0"***
	I90HS	1'-6"	4'-0"	6'-6"	9'-0"	11'-6"	14'-0"	17'-0"	20'-0"	23'-0"	-
28" to 32"	I65	1'-0"	1'-0"	1'-6"	3'-0"	4'-6"	6'-0"	7'-6"	9'-0"	11'-0"	***13'-6"***
	I90 / I90H	1'-0"	3'-0"	4'-6"	6'-0"	7'-6"	9'-0"	11'-0"	12'-6"	15'-6"	18'-6"
	I90HS	1'-0"	2'-6"	4'-6"	7'-0"	9'-6"	12'-0"	14'-6"	17'-0"	19'-6"	21'-6"

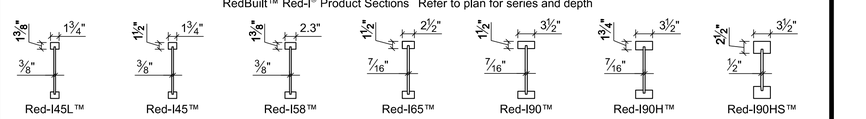
General Notes

- Tables are based on maximum allowable uniform loads. ***Bold italic*** cells indicate 2000 lb. concentrated load spread over two joists has not been considered, use RedSpec™ software or contact your RedBuilt™ technical representative if concentrated load check is required.
- For other hole sizes, hole locations, or loads, use RedSpec™ software or contact your RedBuilt™ technical representative
- Holes may be located vertically anywhere in the web. Leave ⅛" of web (minimum) at top and bottom of hole. **DO NOT cut joist flanges.**
- Knockouts are located in web at approximately 12" on-center; they do not affect hole placement.
- **Do not cut holes in cantilever without consulting your RedBuilt™ representative.**

How to use Tables A and B

1. Determine the hole shape and size. For rectangular holes, use the largest dimension of the rectangle. Sizes given in the table are hole sizes, not duct sizes.
2. Determine the Red-I™ joist series and depth.
3. Determine the type of support on each side of the hole. If the Red-I™ joist is continuous over a support, use both tables. Use Table A if the joist terminates at both supports.
4. Find the table cell at the intersection of the Red-I™ joist and the hole.
5. The measurement shown is the minimum distance from the edge of the hole to the inside face of the support.
6. Maintain the minimum required distance from both supports.
7. It is permissible to interpolate between hole sizes shown in the tables.

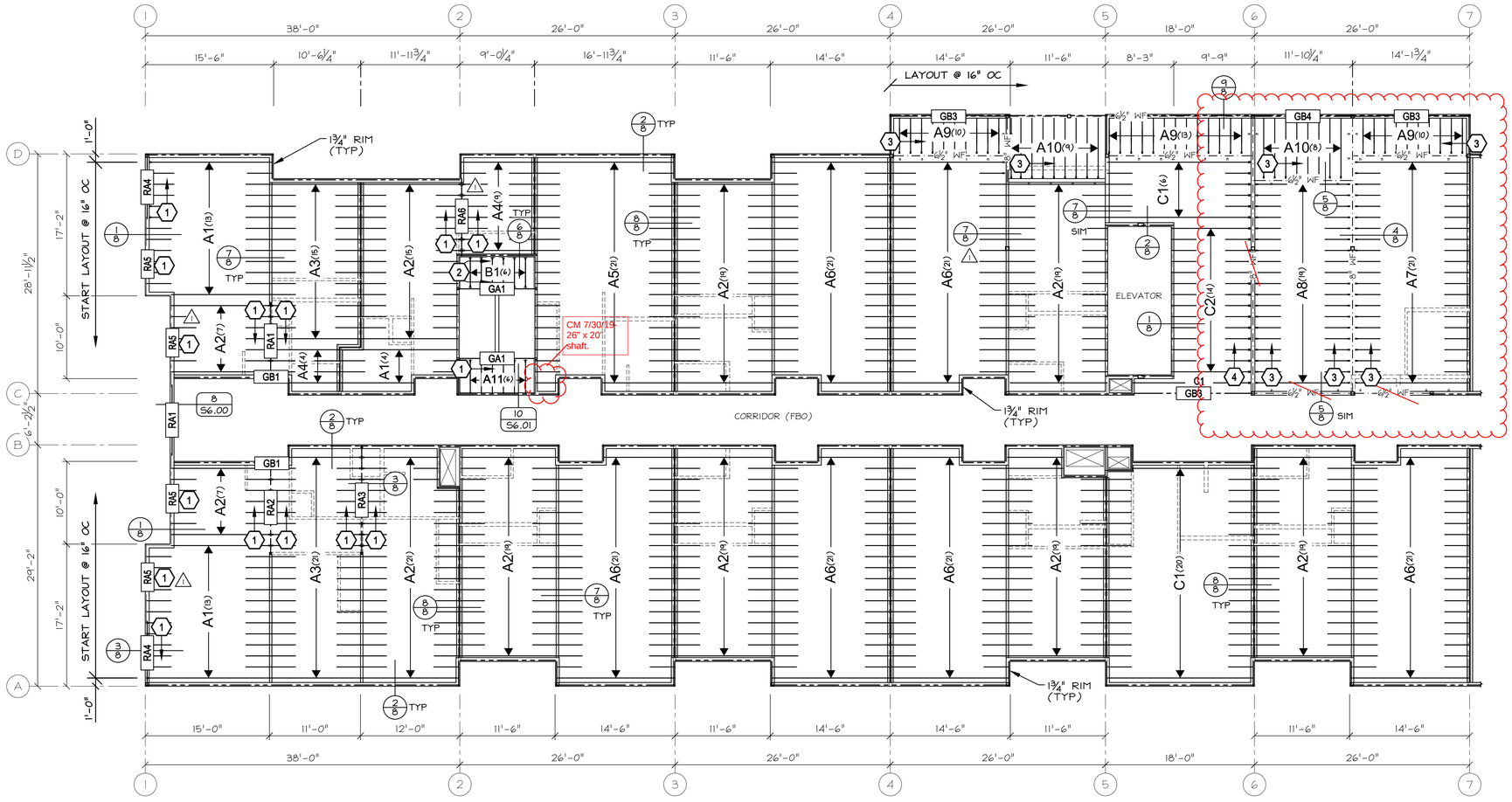
RedBuilt™ Red-I® Product Sections Refer to plan for series and depth



For allowable holes and fasteners information please scan the QR code or use the link below to access page number 3 of sprinkler system installation guide

http://www.redbuilt.com/images/docs/RedBuilt%20Sprinkler%20Guide.pdf

If you have questions or concerns:
Call your RedBuilt™ Representative directly, or for general customer service call
(866) 859-6757



3RD FLOOR - GRIDS 1 TO 7 FRAMING LOCATION PLAN

SCALE ⅛"=1'-0"

KEY NOTES

1. JOIST LAYOUT SHOWN DOES NOT ACCOUNT FOR CLEARANCE TO ANY FLOOR DRAINS. THE CONTRACTOR IS RESPONSIBLE FOR DRAIN LAYOUT. (NOTE: LIVING UNIT FLOOR JOISTS MAY BE OVERSPACED UP TO 2" FOR DRAIN CLEARANCE, THIS ALLOWS MOVING ANY ONE JOIST 4" MAX)
2. STAIR LANDING FRAMING BELOW THE 3RD FLOOR LEVEL WILL BE SHIPPED WITH THE 3RD FLOOR PRODUCT (SEE MATERIAL LIST). NOTE: LVL MATERIAL CAN NOT BE LOCATED DIRECTLY IN CONTACT WITH CONCRETE, USE MOISTURE BARRIER, BY OTHERS.
3. STAIR STRINGERS (AND ANY HARDWARE) ARE BY OTHERS
4. WIDE FLANGE BEAM FILLERS SHOWN IN DETAILS 11/S6.00 & 12/S6.00 ARE PROVIDED BY RB, SEE THE MATERIAL LIST.

Hangers

Quantity	Type	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
96	1	ITS1.81/11.88	4-N10	2-N10		
12	2	ITS1.81/9.5	4-N10	2-N10		
146	3	IUS1.81/11.88		10-10d		
27	4	IUS2.56/11.88		10-10d		

- REFER TO CURRENT SIMPSON STRONG TIE® LITERATURE FOR HANGER SPECIFIC INSTALLATION INSTRUCTIONS.
- WEB STIFFENERS IF REQUIRED MUST BE ATTACHED BEFORE PLACING JOIST IN HANGER.

IN ACCORDANCE WITH IBC SECTION 1603.1, THE PRODUCTS IN THIS PACKAGE HAVE BEEN DESIGNED FOR ONLY THOSE LOADS SPECIFICALLY SHOWN ON THE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS AND PLACEMENT DIAGRAMS HAVE NOT BEEN REVIEWED BY A REDBUILT ENGINEER. IF OTHER LOADS (WIND UPLIFT, SNOW DRIFT, BRACE LOADS, ETC.) ARE TO BE APPLIED, PLEASE PROVIDE THE MAGNITUDE AND LOCATION.

GENERAL NOTES & LEGEND

DESIGN CONSIDERATIONS

BUILDING CODE:	2015 IBC
FLOOR DESIGN	
RESIDENTIAL LIVE LOAD:	40 PSF
RESIDENTIAL DEAD LOAD:	35 PSF
STAIRS LIVE LOAD:	100 PSF
STAIRS DEAD LOAD:	20 PSF
ROOF DESIGN	
-TYPE A9 & A10 JOISTS-	
SNOW LOAD (@ 115%): (INCLUSES 5 PSF RAIN ON SNOW)	30 PSF
DEAD LOAD:	20 PSF
GROSS WIND PRESSURE (ULT @ 160%):	-38.2 PSF

DRAWING NOTES & LEGEND

- FOR TYPICAL NOTES, STANDARD DETAILS, AND ABBREVIATIONS, SEE INSTALLATION COVERSHEET(S).
- ALL DIMENSIONS ARE FROM FACE-OF-STUD, FACE-OF-CONCRETE OR CENTER-OF COLUMN/BEAM UNLESS OTHERWISE NOTED

XX(##) - PRODUCT CALLOUT AND QUANTITY ON PLAN.
"XX" - STRUCTURAL MEMBER TYPE CALLOUT
"##" - QUANTITY OF STRUCTURAL MEMBERS IN BAY

- RIM BOARD/FASCIA MATERIAL WILL BE SUPPLIED @ "STANDARD" 16'-0" LENGTHS AND AS EITHER LSL OR LVL

I-JOIST NOTES & LEGEND

- ALL I-JOISTS WILL BE SENT LONG TO BE FIELD TRIMMED

(X) - CONTINUOUS HANGER TYPE. SEE HANGER INFO.

THIRD PARTY PRODUCTS SOURCED BY REDBUILT

REDBUILT WILL PROVIDE GLULAM BEAMS WITH A 5000' RADIUS CAMBER. V8 BEAMS WILL NOT BE CAMBERED.

G? - LOCATION OF GLULAM BEAM. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL GLULAM BEAMS ARE SUPPLIED BASED ON THE SPECIFICATION SHOWN IN THE CONTRACT DOCUMENTS. REDBUILT SERVICES FOR THESE ITEMS ARE LIMITED TO PLACEMENT DRAWINGS ONLY. APPLICATION AND ADEQUACY REVIEW OF GLULAM BEAMS ARE THE SOLE RESPONSIBILITY OF THE DESIGN PROFESSIONAL OF RECORD AND ARE NOT PROVIDED BY REDBUILT.

RECTANGULAR SECTIONS

R? - LOCATION OF BEAM OR COLUMN BY RB. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL REDLAM LVL MATERIAL AND ASSOCIATED HARDWARE PROVIDED BY REDBUILT IS AS SPECIFIED ON THE CONTRACT DRAWINGS. SPECIFICATIONS AND SIZE HAVE NOT BEEN VERIFIED BY REDBUILT ENGINEERING UNLESS OTHERWISE NOTED.

PRODUCT TYPE CHART

SEE MATERIAL LIST FOR MORE INFORMATION

CALLOUT	MEMBER
A	11⅞" RED-145 JOIST
B	9½" RED-145 JOIST
C	11⅞" RED-165 JOIST
GA	5⅛"x9" GLULAM BEAM (THIRD PARTY)
GB	5⅛"x12" GLULAM BEAM (THIRD PARTY)
RA	5¼"x11⅞" REDLAM BEAM

PROJECT ASSUMPTIONS
- ALL MISCELLANEOUS ITEMS (SPRINKLER LINES, SOFFITS, DUCTWORK, ELECTRICAL CONDUITS, ETC.) ARE ASSUMED TO BE INCLUDED IN THE UNIFORM DESIGN DEAD LOAD SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.
- ALL OPENINGS (HATCHES, DUCTWORK, SKYLIGHTS, ETC.) ARE ASSUMED TO FIT BETWEEN REGULAR ON-CENTER SPACING AS SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.

APPROVED FOR PRODUCTION

BY	DATE	REMARKS
JL	5/24/19	OFA Comments

REDBUILT™ Engineered Wood Products

Westman Mill
Olympia, WA
3rd Floor - Grids 1 to 7

DRAWN	DATE	CHECKED	DATE	ORDER #	SHEET
JL	2/26/19	-	-	110805	2 OF 8

4 5 6 7

26'-0" 18'-0" 26'-0"

14'-6" 11'-6" 8'-3" 9'-9" 11'-10¼" 14'-1¾"

LAYOUT @ 16" OC

CM 7/30/19- Rev. 03 indicating revisions per RFI 008 to include deletion of the lounge beams

9/8

GB3 A9(10) 3 6½" WF

A10(9) 3 8" WF

6½" WF A9(13) 6½" WF

GB4 A10(8) 3 6½" WF

GB3 A9(10) 3 6½" WF

C1(6)

7/8 SIM 1

A6(21)

7/8 SIM 2

A2(19)

2/8

ELEVATOR

1/8

C2(14)

A8(19)

5/8

8" WF

4/8

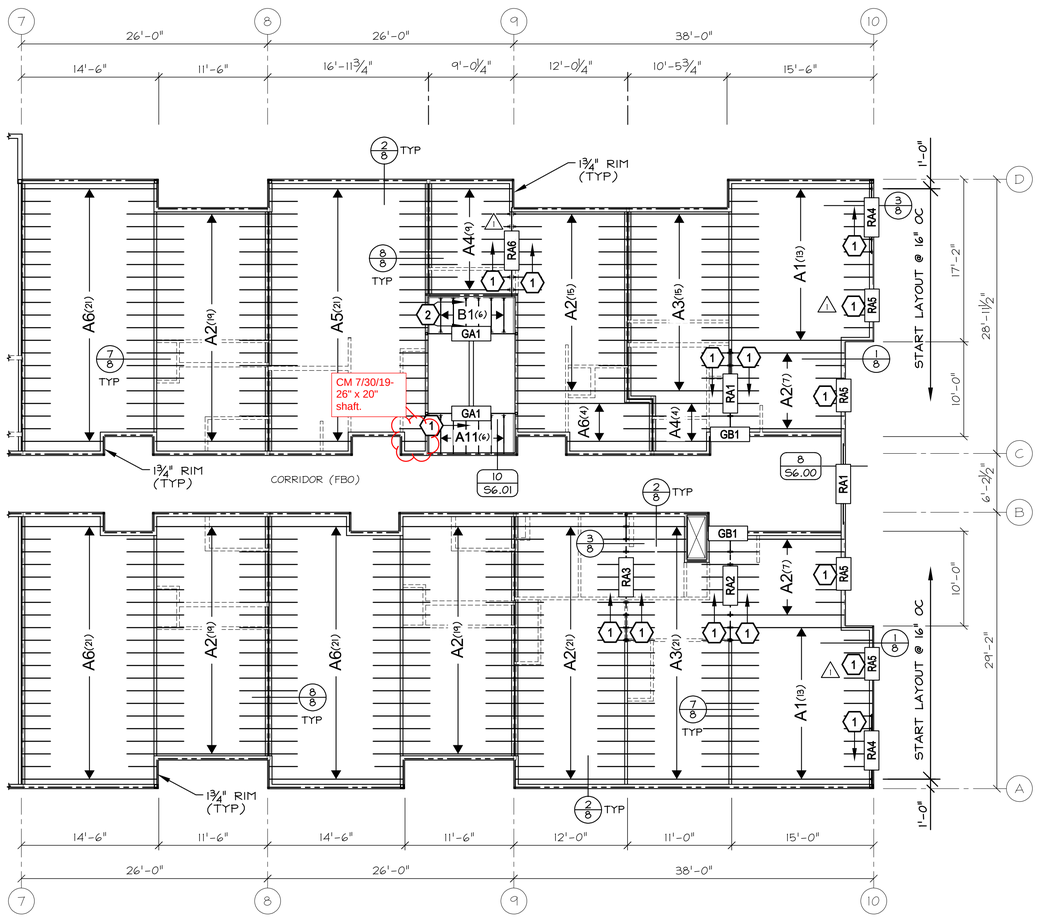
A7(21)

C1

GB3

1¾" RIM (TYP)

2/8 TYP



3RD FLOOR - GRIDS 7 TO 10 FRAMING LOCATION PLAN

SCALE ⅛"=1'-0"

KEY NOTES

1. JOIST LAYOUT SHOWN DOES NOT ACCOUNT FOR CLEARANCE TO ANY FLOOR DRAINS. THE CONTRACTOR IS RESPONSIBLE FOR DRAIN LAYOUT. (NOTE: LIVING UNIT FLOOR JOISTS MAY BE OVERSPACED UP TO 2" FOR DRAIN CLEARANCE, THIS ALLOWS MOVING ANY ONE JOIST 4" MAX)
2. STAIR LANDING FRAMING BELOW THE 3RD FLOOR LEVEL WILL BE SHIPPED WITH THE 3RD FLOOR PRODUCT (SEE MATERIAL LIST). NOTE: LVL MATERIAL CAN NOT BE LOCATED DIRECTLY IN CONTACT WITH CONCRETE, USE MOISTURE BARRIER, BY OTHERS.
3. STAIR STRINGERS (AND ANY HARDWARE) ARE BY OTHERS

Hangers

Quantity	Type	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
100	1	IT5I.81/11.88	4-N10	2-N10		
12	2	IT5I.81/9.5	4-N10	2-N10		

- REFER TO CURRENT SIMPSON STRONG TIE® LITERATURE FOR HANGER SPECIFIC INSTALLATION INSTRUCTIONS.
- WEB STIFFENERS IF REQUIRED MUST BE ATTACHED BEFORE PLACING JOIST IN HANGER.

IN ACCORDANCE WITH IBC SECTION 1603.1, THE PRODUCTS IN THIS PACKAGE HAVE BEEN DESIGNED FOR ONLY THOSE LOADS SPECIFICALLY SHOWN ON THE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS AND PLACEMENT DIAGRAMS HAVE NOT BEEN REVIEWED BY A REDBUILT ENGINEER. IF OTHER LOADS (WIND UPLIFT, SNOW DRIFT, BRACE LOADS, ETC.) ARE TO BE APPLIED, PLEASE PROVIDE THE MAGNITUDE AND LOCATION.

GENERAL NOTES & LEGEND

DESIGN CONSIDERATIONS

BUILDING CODE: 2015 IBC

FLOOR DESIGN
- RESIDENTIAL LIVE LOAD: 40 PSF
- RESIDENTIAL DEAD LOAD: 35 PSF

- STAIRS LIVE LOAD: 100 PSF
- STAIRS DEAD LOAD: 20 PSF

DRAWING NOTES & LEGEND

- FOR TYPICAL NOTES, STANDARD DETAILS, AND ABBREVIATIONS, SEE INSTALLATION COVERSHEET(S).
- ALL DIMENSIONS ARE FROM FACE-OF-STUD, FACE-OF-CONCRETE OR CENTER-OF-COLUMN/BEAM UNLESS OTHERWISE NOTED

XX(##) - PRODUCT CALLOUT AND QUANTITY ON PLAN.
"XX" - STRUCTURAL MEMBER TYPE CALLOUT
"##" - QUANTITY OF STRUCTURAL MEMBERS IN BAY

- RIM BOARD/FASCIA MATERIAL WILL BE SUPPLIED @ "STANDARD" 16'-0" LENGTHS AND AS EITHER LSL OR LVL

I-JOIST NOTES & LEGEND

- ALL I-JOISTS WILL BE SENT LONG TO BE FIELD TRIMMED

(X) - CONTINUOUS HANGER TYPE. SEE HANGER INFO.

THIRD PARTY PRODUCTS SOURCED BY REDBUILT

REDBUILT WILL PROVIDE GLULAM BEAMS WITH A 5000' RADIUS CAMBER. V8 BEAMS WILL NOT BE CAMBERED.

G? - LOCATION OF GLULAM BEAM. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL GLULAM BEAMS ARE SUPPLIED BASED ON THE SPECIFICATION SHOWN IN THE CONTRACT DOCUMENTS. REDBUILT SERVICES FOR THESE ITEMS ARE LIMITED TO PLACEMENT DRAWINGS ONLY. APPLICATION AND ADEQUACY REVIEW OF GLULAM BEAMS ARE THE SOLE RESPONSIBILITY OF THE DESIGN PROFESSIONAL OF RECORD AND ARE NOT PROVIDED BY REDBUILT.

RECTANGULAR SECTIONS

R? - LOCATION OF BEAM OR COLUMN BY RB. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL REDLAM LVL MATERIAL AND ASSOCIATED HARDWARE PROVIDED BY REDBUILT IS AS SPECIFIED ON THE CONTRACT DRAWINGS. SPECIFICATIONS AND SIZE HAVE NOT BEEN VERIFIED BY REDBUILT ENGINEERING UNLESS OTHERWISE NOTED.

PRODUCT TYPE CHART

SEE MATERIAL LIST FOR MORE INFORMATION

CALLOUT	MEMBER
A	11⅞" RED-145 JOIST
B	9½" RED-145 JOIST
GA	5⅛"x9" GLULAM BEAM (THIRD PARTY)
GB	5⅛"x12" GLULAM BEAM (THIRD PARTY)
RA	5¼"x11⅞" REDLAM BEAM

PROJECT ASSUMPTIONS
- ALL MISCELLANEOUS ITEMS (SPRINKLER LINES, SOFFITS, DUCTWORK, ELECTRICAL CONDUITS, ETC.) ARE ASSUMED TO BE INCLUDED IN THE UNIFORM DESIGN DEAD LOAD SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.
- ALL OPENINGS (HATCHES, DUCTWORK, SKYLIGHTS, ETC.) ARE ASSUMED TO FIT BETWEEN REGULAR ON-CENTER SPACING AS SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.

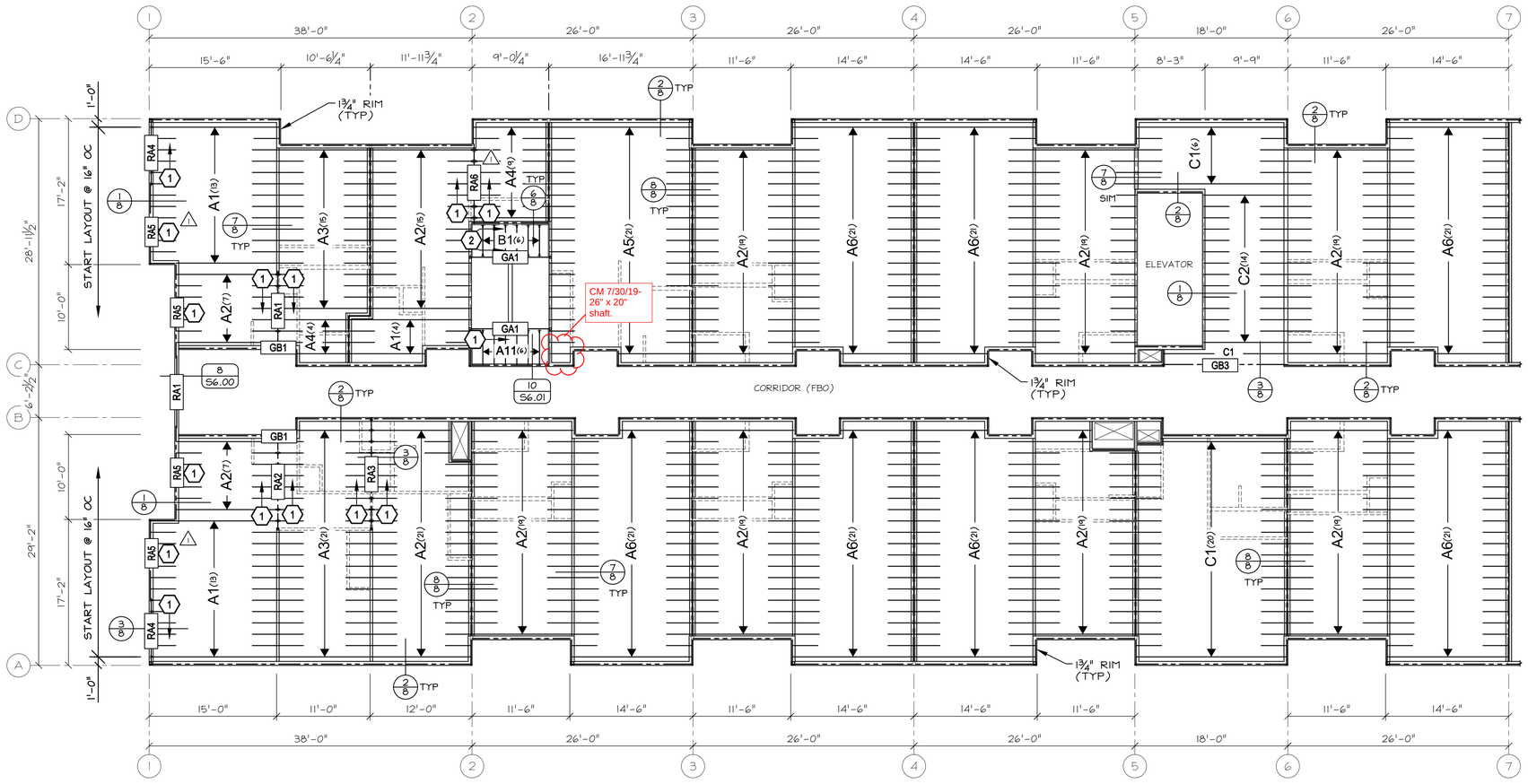
APPROVED FOR PRODUCTION

BY	DATE	REMARKS
JL	5/24/19	OFA Comments

REDBUILT™ Engineered Wood Products

Westman Mill
Olympia, WA
3rd Floor - Grids 7 to 10

DRAWN	DATE	CHECKED	DATE	ORDER #	SHEET
JL	2/26/19	-	-	110805	3 OF 8



4TH FLOOR - GRIDS 1 TO 7 FRAMING LOCATION PLAN

SCALE ⅛"=1'-0"

KEY NOTES

1. JOIST LAYOUT SHOWN DOES NOT ACCOUNT FOR CLEARANCE TO ANY FLOOR DRAINS. THE CONTRACTOR IS RESPONSIBLE FOR DRAIN LAYOUT. (NOTE: LIVING UNIT FLOOR JOISTS MAY BE OVERSPACED UP TO 2" FOR DRAIN CLEARANCE, THIS ALLOWS MOVING ANY ONE JOIST 4" MAX)

Hangers

Quantity	Type	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
96	1	ITS1.81/11.88	4-N10	2-N10		
12	2	ITS1.81/9.5	4-N10	2-N10		

- REFER TO CURRENT SIMPSON STRONG TIE® LITERATURE FOR HANGER SPECIFIC INSTALLATION INSTRUCTIONS.
- WEB STIFFENERS IF REQUIRED MUST BE ATTACHED BEFORE PLACING JOIST IN HANGER.

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GENERAL NOTES & LEGEND

DESIGN CONSIDERATIONS

BUILDING CODE:	2015 IBC
FLOOR DESIGN	
RESIDENTIAL LIVE LOAD:	40 PSF
RESIDENTIAL DEAD LOAD:	35 PSF
STAIRS LIVE LOAD:	100 PSF
STAIRS DEAD LOAD:	20 PSF

DRAWING NOTES & LEGEND

- FOR TYPICAL NOTES, STANDARD DETAILS, AND ABBREVIATIONS, SEE INSTALLATION COVERSHEET(S).
- ALL DIMENSIONS ARE FROM FACE-OF-STUD, FACE-OF-CONCRETE OR CENTER-OF-COLUMN/BEAM UNLESS OTHERWISE NOTED

XX(##) - PRODUCT CALLOUT AND QUANTITY ON PLAN.
"XX" - STRUCTURAL MEMBER TYPE CALLOUT
"##" - QUANTITY OF STRUCTURAL MEMBERS IN BAY

- RIM BOARD/FASCIA MATERIAL WILL BE SUPPLIED @ "STANDARD" 16'-0" LENGTHS AND AS EITHER LSL OR LVL

I-JOIST NOTES & LEGEND

- ALL I-JOISTS WILL BE SENT LONG TO BE FIELD TRIMMED

(X) - CONTINUOUS HANGER TYPE. SEE HANGER INFO.

THIRD PARTY PRODUCTS SOURCED BY REDBUILT

REDBUILT WILL PROVIDE GLULAM BEAMS WITH A 5000' RADIUS CAMBER. V8 BEAMS WILL NOT BE CAMBERED.

G? - LOCATION OF GLULAM BEAM. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL GLULAM BEAMS ARE SUPPLIED BASED ON THE SPECIFICATION SHOWN IN THE CONTRACT DOCUMENTS. REDBUILT SERVICES FOR THESE ITEMS ARE LIMITED TO PLACEMENT DRAWINGS ONLY. APPLICATION AND ADEQUACY REVIEW OF GLULAM BEAMS ARE THE SOLE RESPONSIBILITY OF THE DESIGN PROFESSIONAL OF RECORD AND ARE NOT PROVIDED BY REDBUILT.

RECTANGULAR SECTIONS

R? - LOCATION OF BEAM OR COLUMN BY RB. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL REDLAM LVL MATERIAL AND ASSOCIATED HARDWARE PROVIDED BY REDBUILT IS AS SPECIFIED ON THE CONTRACT DRAWINGS. SPECIFICATIONS AND SIZE HAVE NOT BEEN VERIFIED BY REDBUILT ENGINEERING UNLESS OTHERWISE NOTED.

PRODUCT TYPE CHART

SEE MATERIAL LIST FOR MORE INFORMATION

CALLOUT	MEMBER
A	11⅞" RED-145 JOIST
B	9½" RED-145 JOIST
C	11⅞" RED-165 JOIST
GA	5¼"x9" GLULAM BEAM (THIRD PARTY)
GB	5⅛"x12" GLULAM BEAM (THIRD PARTY)
RA	5¼"x11⅞" REDLAM BEAM

PROJECT ASSUMPTIONS
- ALL MISCELLANEOUS ITEMS (SPRINKLER LINES, SOFFITS, DUCTWORK, ELECTRICAL CONDUITS, ETC.) ARE ASSUMED TO BE INCLUDED IN THE UNIFORM DESIGN DEAD LOAD SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.
- ALL OPENINGS (HATCHES, DUCTWORK, SKYLIGHTS, ETC.) ARE ASSUMED TO FIT BETWEEN REGULAR ON-CENTER SPACING AS SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.

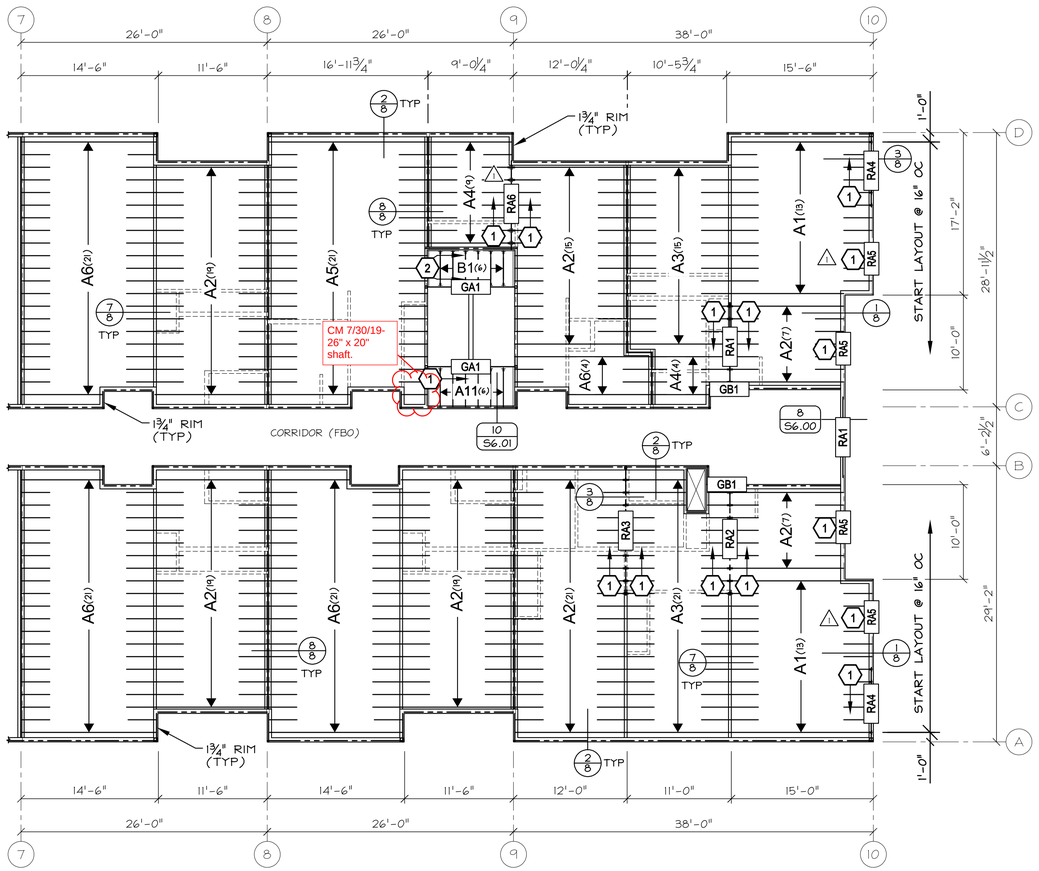
APPROVED FOR PRODUCTION

BY	DATE	REMARKS
JL	5/24/19	OFA Comments

REDBUILT™ Engineered Wood Products

Westman Mill
Olympia, WA
4th Floor - Grids 1 to 7

DRAWN	DATE	CHECKED	DATE	ORDER #	SHEET
JL	2/26/19	-	-	110805	4 OF 8



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4TH FLOOR - GRIDS 7 TO 10 FRAMING LOCATION PLAN

SCALE ⅛"=1'-0"

KEY NOTES

1. JOIST LAYOUT SHOWN DOES NOT ACCOUNT FOR CLEARANCE TO ANY FLOOR DRAINS. THE CONTRACTOR IS RESPONSIBLE FOR DRAIN LAYOUT. (NOTE: LIVING UNIT FLOOR JOISTS MAY BE OVERSPACED UP TO 2" FOR DRAIN CLEARANCE, THIS ALLOWS MOVING ANY ONE JOIST 4" MAX)

Hangers

Quantity	Type	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
100	1	ITS1.81/11.88	4-N10	2-N10		
12	2	ITS1.81/9.5	4-N10	2-N10		

- REFER TO CURRENT SIMPSON STRONG TIE® LITERATURE FOR HANGER SPECIFIC INSTALLATION INSTRUCTIONS.
- WEB STIFFENERS IF REQUIRED MUST BE ATTACHED BEFORE PLACING JOIST IN HANGER.

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GENERAL NOTES & LEGEND

DESIGN CONSIDERATIONS

BUILDING CODE: 2015 IBC

FLOOR DESIGN
- RESIDENTIAL LIVE LOAD: 40 PSF
- RESIDENTIAL DEAD LOAD: 35 PSF

- STAIRS LIVE LOAD: 100 PSF
- STAIRS DEAD LOAD: 20 PSF

DRAWING NOTES & LEGEND

- FOR TYPICAL NOTES, STANDARD DETAILS, AND ABBREVIATIONS, SEE INSTALLATION COVERSHEET(S).
- ALL DIMENSIONS ARE FROM FACE-OF-STUD, FACE-OF-CONCRETE OR CENTER-OF-COLUMN/BEAM UNLESS OTHERWISE NOTED

XX(##) - PRODUCT CALLOUT AND QUANTITY ON PLAN.
"XX" - STRUCTURAL MEMBER TYPE CALLOUT
"##" - QUANTITY OF STRUCTURAL MEMBERS IN BAY

- RIM BOARD/FASCIA MATERIAL WILL BE SUPPLIED @ "STANDARD" 16'-0" LENGTHS AND AS EITHER LSL OR LVL

I-JOIST NOTES & LEGEND

- ALL I-JOISTS WILL BE SENT LONG TO BE FIELD TRIMMED

(X) - CONTINUOUS HANGER TYPE. SEE HANGER INFO.

THIRD PARTY PRODUCTS SOURCED BY REDBUILT

REDBUILT WILL PROVIDE GLULAM BEAMS WITH A 5000' RADIUS CAMBER. V8 BEAMS WILL NOT BE CAMBERED.

G? - LOCATION OF GLULAM BEAM. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL GLULAM BEAMS ARE SUPPLIED BASED ON THE SPECIFICATION SHOWN IN THE CONTRACT DOCUMENTS. REDBUILT SERVICES FOR THESE ITEMS ARE LIMITED TO PLACEMENT DRAWINGS ONLY. APPLICATION AND ADEQUACY REVIEW OF GLULAM BEAMS ARE THE SOLE RESPONSIBILITY OF THE DESIGN PROFESSIONAL OF RECORD AND ARE NOT PROVIDED BY REDBUILT.

RECTANGULAR SECTIONS

R? - LOCATION OF BEAM OR COLUMN BY RB. SEE MATERIAL LIST FOR MORE INFORMATION.

- ALL REDLAM LVL MATERIAL AND ASSOCIATED HARDWARE PROVIDED BY REDBUILT IS AS SPECIFIED ON THE CONTRACT DRAWINGS. SPECIFICATIONS AND SIZE HAVE NOT BEEN VERIFIED BY REDBUILT ENGINEERING UNLESS OTHERWISE NOTED.

PRODUCT TYPE CHART

SEE MATERIAL LIST FOR MORE INFORMATION

CALLOUT	MEMBER
A	11⅞" RED-145 JOIST
B	9½" RED-145 JOIST
GA	5⅛"x9" GLULAM BEAM (THIRD PARTY)
GB	5⅛"x12" GLULAM BEAM (THIRD PARTY)
RA	5¼"x11⅞" REDLAM BEAM

PROJECT ASSUMPTIONS
- ALL MISCELLANEOUS ITEMS (SPRINKLER LINES, SOFFITS, DUCTWORK, ELECTRICAL CONDUITS, ETC.) ARE ASSUMED TO BE INCLUDED IN THE UNIFORM DESIGN DEAD LOAD SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.
- ALL OPENINGS (HATCHES, DUCTWORK, SKYLIGHTS, ETC.) ARE ASSUMED TO FIT BETWEEN REGULAR ON-CENTER SPACING AS SHOWN, UNLESS SPECIFICALLY SHOWN OTHERWISE ON THESE SHOP DRAWINGS.

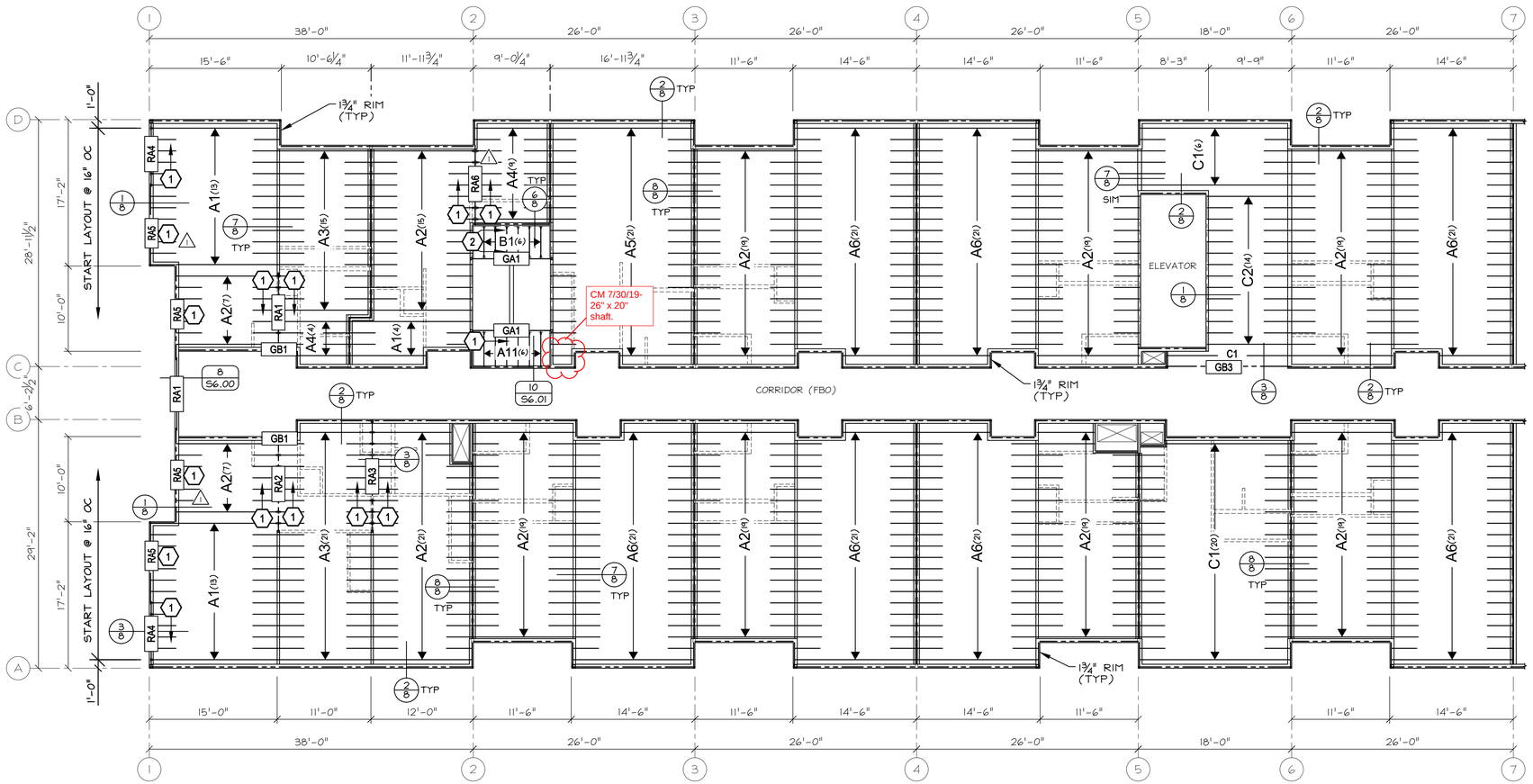
APPROVED FOR PRODUCTION

BY	DATE	REMARKS
JL	5/24/19	OFA Comments

REDBUILT™ Engineered Wood Products

Westman Mill
Olympia, WA
4th Floor - Grids 7 to 10

DRAWN	DATE	CHECKED	DATE	ORDER #	SHEET
JL	2/26/19	-	-	110805	5 OF 8



5TH FLOOR - GRIDS 1 TO 7 FRAMING LOCATION PLAN

SCALE ⅛"=1'-0"

KEY NOTES

1. JOIST LAYOUT SHOWN DOES NOT ACCOUNT FOR CLEARANCE TO ANY FLOOR DRAINS. THE CONTRACTOR IS RESPONSIBLE FOR DRAIN LAYOUT. (NOTE: LIVING UNIT FLOOR JOISTS MAY BE OVERSPACED UP TO 2" FOR DRAIN CLEARANCE, THIS ALLOWS MOVING ANY ONE JOIST 4" MAX)
2. ROOF BEAMS (2 GLULAMS SHOWN ON SHEET S2.06) WILL BE SHIPPED WITH THE 5TH FLOOR (SEE MATERIAL LIST).

Hangers

Quantity	Type	Model	Nailing			Web Stiffeners Required
			Top	Face	Member	
96	1	ITS1.81/11.88	4-N10	2-N10		
12	2	ITS1.81/9.5	4-N10	2-N10		

- REFER TO CURRENT SIMPSON STRONG TIE® LITERATURE FOR HANGER SPECIFIC INSTALLATION INSTRUCTIONS.
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2			
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