OSOYOOS APARTMENTS

(5603 Lakeshore Drive, Osoyoos, B.C.)

SPAN WEST BUILDING CORPORATION





OWNER

SPAN WEST BUILDING CORPORATION 514B-45 STREET EAST SASKATOON, SASKATCHEWAN S7K 0W2

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ELECTRICAL CONSULTANT

ENGLOBE 202-13167, 146 STREET EDMONTON, AB T5L 4S8 CONTACT: Wes Bullock, P.Eng. LEED AP [TEL] 780-801-6136 [CELL] 780-860-5224

[EMAIL] wes.bullock@englobecorp.com

SPRINKLER CONSULTANT

ryan schmidt



GENERAL NOTES:

1. ALL CONSTRUCTION AND RELATED WORK SHALL COMPLY WITH THE 2018 EDITION OF THE BRITISH COLUMBIA BUILDING CODE, LOCAL BYLAWS AND REGULATIONS.

2. ONE FULL SET OF APPROVED CONSTRUCTION DOCUMENTS TO BE KEPT ON SITE AND AVAILABLE FOR CHECKING AT ALL TIMES DURING CONSTRUCTION.

3. ENSURE ACCESS TO ALL FIRE EXITS ARE MAINTAINED DURING CONSTRUCTION.

4. ALL DIMENSIONS ARE FROM FACE OF STUD, FACE OF GIRTS FACE OF CONCRETE, FACE OF BLOCK OR CENTRE LINE OF GRID CENTRE LINE OF CONCRETE PILE, CENTRE LINE OF CONCRETE FOOTING, CENTRE LINE OF STEEL OR CENTRE LINE OF GRID UNLESS NOTED OTHERWISE.

5. DRAWINGS ARE NOT TO BE SCALED FOR SIZES OR

6. REFER TO CONTRACT DOCUMENTS FOR SPECIFIC

7. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIEDIN THE REVISION COLUMN. DO NOT USE THESE DRAWINGS FOR CONSTRUCTION UNLESS THEY ARE MARKED "ISSUED FOR CONSTRUCTION".

8. THE ENGINEER(S) / ARCHITECT(S) ARE RESPONSIBLE ONLY FOR ITEMS NOTED ON THIS DRAWING.

9. THE ENGINEER(S) / ARCHITECT(S) DO NOT HAVE CONTROL OF CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR METHODS, PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

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ISSUED FOR BUILDING PERMIT DATE BY NO. DESCRIPTION DRAWING ISSUE NUMBER / REVISIONS

STAMPS:

CLIENT:

SPAN WEST SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

COVER SHEET

SHEET 1 DRAWN BY A0.1 CHK'D BY: FILE NO:

1) A building classified as Group C is permitted to conform to Sentence (2) provided a) except as permited by Sentences 3.2.2.7(1) and 3.2.2.18(2), the building is sprinklered throughout,

b) it is not more than 3 storeys in building height, and c) it has a building area not more than

iii) 1 800 m2 if 3 storeys in building height

2) The building referred to in Sentence (1) is permitted to be of combustible construction or noncombustible construction used singly or in combination, and

a) except as pemitted by Sentences (3) and (4), floor assemblies shall be fire separations with a fire-resistance rating not less than 45 min.,

c) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported

MISCELLANEOUS NOTES:

 ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE THE PROVINCE OF SASKATCHEWAN UNIFORM BUILDING AND ACCESSIBILITY ACT, THE NATIONAL BUILDING CODE, 2015.

READ ALL SHEETS OF THE DRAWINGS IN CONJUNCTION WITH ONE ANOTHER. 3. TYPE-X DRYWALL SHALL BE SPECIAL FIRE-RESISTANCE TYPE-X GYPSUM BOARD CONFORMING TO

NATIONAL BUILDING CODE OF CANADA ARTICLE 9.29.5.2.

ABSORPTIVE MATERIAL REQUIRED FOR THE FIRE-RATED WALL ASSEMBLIES SHALL BE MINERAL FIBRE BATT INSULATION WITH A MASS OF ATLEAST 4.8 KG/SQ.M. FOR 150mm STUD THICKNESS OR 2.8

KG/SQ.M. FOR 89mm STUD THICKNESS AND COMPLETELY FILLING THE WALL CAVITY 5. FOR COMPLETE DETAILS OF FIRE-RESISTANCE BUILDING ASSEMBLIES SEE A-9.10.3.1. NATIONAL

BUILDING CODE OF CANADA, 2010.

6. ALL DRYWALL TAPED AND FILLED. ALL EXPOSED DRYWALL TO BE PAINTED.

7. ALL SEALANTS BETWEEN DOOR AND WINDOW FRAMES WITH SIDING AND / OR BRICK TO BE

8. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF GEOTECHNICAL ENGINEER'S SOIL REPORT. 9. PLYWOOD AROUND BUILDING PERIMETER AND WOOD PLATES IN CONTACT WITH SOIL SHALL BE

10. PROVIDE POLY UNDER ALL STUD WALLS AGAINST CONCRETE SLAB.

11. LAP ALL REBAR 16" MINIMUM.

12. ALL COLORS TO BE CONFIRMED BY OWNER

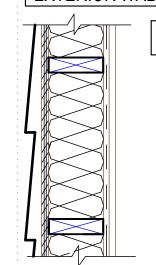
13. VAPOR BARRIER INSTALLATION: LAP AND CAULK ALL VAPOR BARRIER JOINTS. 14. BLOCKING TO BE PROVIDED AT ALL JOINTS.

15. AIR BARRIER: ENSURE CONTINUITY OF AIR BARRIER AROUND ENTIRE STRUCTURE. 16. DO NOT EXCAVATE UNTIL SERVICE FACILITIES HAVE BEEN LOCATED.

IT IS THE EXCAVATORS RESPONSIBILITY TO ENSURE THERE IS NO DAMAGE TO THE FACILITIES DURING EXCAVATION AND PLACING A REQUEST WITH THE ONE-CALL SYSTEM DOES NOT REMOVE THAT RESPONSIBILITY.

	SHEET INDEX	
ID	Name	Published
A0.1	COVER SHEET	
A0.2	KEY NOTES	
A0.3	CODE ANALYSIS	
A0.4	CODE REVIEW	
A0.5	CODE REVIEW	
A1.1	SITE PLAN	
A1.2	LANDSCAPING DETAILS	
A2.1	MAIN FLOOR PLAN CONSTRUCTION	
A2.2	2ND FLOOR PLAN CONSTRUCTION	
A2.3	3RD FLOOR PLAN CONSTRUCTION	
A2.4	SUITE TYPES 'A & A2'	
A2.5	SUITES TYPE 'B & C'	
A2.6	SUITE TYPE 'D'	
A2.7	SUITE- 'MANAGER' & "E"	
A2.8	SUITE TYPE 'A' BF	
A3.1	NORTH & SOUTH ELEVATIONS	
A3.2	EAST & WEST ELEVATIONS	
A4.1	BUILDING SECTION AA	
A4.2	ELEVATOR HOISTWAY SECTION	
A5.1	WALL & MISC DETAILS	
A5.2	WALL & MISC DETAILS	
A6.1	DOOR & WINDOW SCHEDULES	
A6.2	WINDOW INSTALLATION PROCEDURES	
A7.1	MILLWORK DETAILS	
A7.2	KITCHEN MILLWORK DETAILS	
A-7.3	BF Millwork Details	
A9.1	STAIR PLANS, SECTION & DETAILS	
A9.2	ELEVATOR DETAILS	
A9.3	MAIN ROOF PLAN	

EXTERIOR WALLS



EXTERIOR WALL $^{
m J}$ 1 hour fire-rating JAMES HARDIE PANEL SIDING STRAPPING 2 LAYERS #15 FELT 5/8" FIBREGLASS MAT GYPSUM EXTERIOR WALL SHEATHING 2X6 WOOD WALL STUDS STUD SPACING AS PER STRUCTURAL ENGINEER DESIGN R20 (5 1/2") BATT INSULATION 2 LAYERS 5/8" TYPE 'X' DRYWALL W/ 6 MIL VAPOR BARRIER

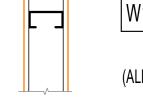
EXTERIOR WALL [E2] (COMMON WALL BETWEEN BALCONIES):

PREFINISHED ALUMINUM FLASHING

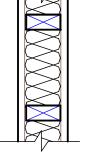
HORIZONTAL VINYL SIDING 2 LAYERS #15 FELT 1/2" EXTERIOR GRADE SHEATHING 2X6 WOOD WALL STUDS STUD SPACING AS PER STRUCTURAL ENGINEER DESIGN R20 (5 1/2") BATT INSULATION 5/8" TYPE 'X' DRYWALL W/ 6 MIL VAPOR BARRIER PREFINISHED ALUMINUM FLASHING

E2a EXTERIOR WALL (2nd & 3rd FLOOR) JAMES HARDIE PANEL SIDING STRAPPING

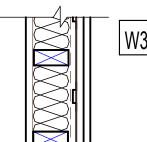
INTERIOR WALLS



W1 INTERIOR WALL - NON-FIRE RATED 2X4 STEEL WALL STUDS AT 16" O.C 1 LAYER OF 1/2" TYPE-X DRYWALL PTD EACH SIDE (ALL INTERIOR SUITE WALLS ARE W1 UNLESS NOTED OTHERWISE)

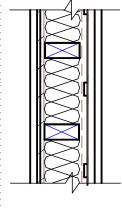


W2 INTERIOR WALL (MECHANICAL, GENERAL STORAGE, HOUSEKEEPING STAIRWELL NOT NEXT TO SUITES) 1 HR. FIRE-RATING - STC 36 2X4 WOOD WALL STUDS AT 16" O.C. 3 1/2" SOUND BATT INSULATION 1 LAYER OF 5/8" TYPE-X DRYWALL BOTH SIDES

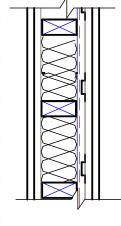


INTERIOR WALL (BEARING WALL) CORRIDORS:

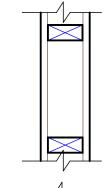
1 HOUR FIRE-RATING - STC 51 2X6 WOOD WALL STUDS AT 16" O.C. RESILIENT METAL CHANNEL ON ONE SIDE @ 24" O.C. 2- LAYER OF 5/8" TYPE-X DRYWALL ON RESILIENT CHANNEL 5 1/2" SOUND BATT INSULATION 1- LAYERS OF 5/8" TYPE-X DRYWALL ON OTHER SIDE



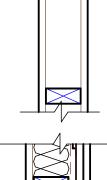
INTERIOR WALL (COMMON WALL BETWEEN SUITES): 1 HOUR FIRE-RATING - STC 51 2X6 WOOD WALL STUDS AT 16" O.C. RESILIENT METAL CHANNEL ON ONE SIDE @ 24" O.C. 2- LAYER OF 5/8" TYPE-X DRYWALL ON RESILIENT CHANNEL 5 1/2" SOUND BATT INSULATION 1/2" PLYWOOD 1- LAYERS OF 5/8" TYPE-X DRYWALL ON OTHER SIDE



INTERIOR WALL (ELEVATOR SHAFT): 1 1/2 HOUR FIRE-RATING - STC 55 2X6 WOOD WALL STUDS SPACED AT 16" O.C. ON 2X6 PLATE 5 1/2" SOUND BATT INSULATION RESILENT METAL CHANNELS ON ONE SIDE SPACED 24" O.C. 2 LAYERS OF 1/2" TYPE-X DRYWALL ON BOTH SIDE

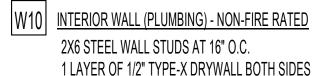


W7 INTERIOR WALL (STAIRWELL) 2X 6 WOOD WALL STUDS AT 16" O.C.



| W9 | INTERIOR WALL (EXIT STAIR SHAFTS & MECH. NEXT TO SUITE) 1 HOUR FIRE-RATING - STC 54 2X4 WOOD WALL STUDS AT 24" O.C. RESILIENT METAL CHANNEL ON ONE SIDE @ 24" O.C. 2- LAYER OF 5/8" TYPE-X DRYWALL ON RESILIENT CHANNEL 3 1/2" SOUND BATT INSULATION 1- LAYERS OF 5/8" TYPE-X DRYWALL ON OTHER SIDE

1 LAYER OF 1/2" TYPE-X DRYWALL ON BOTH SIDES



FLOORS/CEILINGS/PATIO

CEILING (ON ALL ROOF TRUSSES)

2 LAYERS OF 1/2" TYPE-X DRYWALL = 50 MIN RESILENT METAL CHANNELS SPACED 24" O.C. W/ 6 MIL VAPOR BARRIER (CMHC APPROVED) ON ENGINEER APPROVED ROOF TRUSSES AT 2'-0" O.C.

CONCRETE FLOOR SLAB: FLOOR FINISH (AS PER ROOM FINISH SCHEDULE) ON CONCRETE SLAB REINFORCING AS PER STRUCTURAL DRAWINGS POLY VAPOR BARRIER 1" TO 2" SAND BED (TO PROTECT THE POLY VAPOR BARRIER FROM TEARING) 6" COMPACTED FILL (COMPACT TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY)

(CONFIRM WITH STRUCTURAL) MAIN FLOOR PATIO CONCRETE SLAB: 4" CONCRETE SLAB R/W 10M BARS 12" O.C. E.W. AT MID-SLAB 5 TO 7% AIR ENTRAINMENT REQUIRED ON 4" VOID FORM

WITH 10M DOWELS AT 12" O.C.

XTERIOR CONCRETE WALK 4" CONCRETE SLAB R/W 6X6-8.8 WWF (FLAT MAT) MID-SLAB OR FIBER REINFORCED CONC 5 TO 7% AIR ENTRAINMENT REQUIRED FOR EXTERIOR CONCRETE SLABS ON SAND BED DOWEL CONC EXTERIOR WALKS INTO CONC FOUNDATION WALL WITH 10M DOWELS AT 18" O.C.

DOWEL CONC SLAB INTO CONC FOUNDATION WALL

JPPER FLOOR ASSEMBLY 3/4 HR FIRE-RATING - STC 50 1 1/2" CONCRETE TOPPING

5/8" PLYWOOD ON ENGINEERED FLOOR JOIST (CONFIRM SPACING WITH SUPPLIER) 2 LAYERS 5/8" TYPE-X DRYWALL

ROOF

R1 ROOF CONSTRUCTION: (SPRINKLERED) (22"X36" ATTIC ACCESS OPENINGS) ASPHALT SHINGLES (25 YEAR) EAVE PROTECTION (POLY OR BUILDING PAPER)

7/16" OSB SHEATHING ON ENGINEER APPROVED TRUSSES @ 24" 0.C. R40 FIBREGLASS BLOWN INSULATION (AS REQUIRED) CARDBOARD INSULATION STOPS AT EACH TRUSS TO PROVIDE 2" CLEARANCE FOR AIR FLOW PROVIDE ROOF TOP ATTIC VENTS (1 PER 250 SQ.FT. - MIN.) OR CONTINUOUS RIDGE TOP ROOF VENTING

MISCELLANEOUS

TRIM AND SOFFIT: PREFINISHED ALUM TRIM, 5" (MIN) GUTTER, VENTED SOFFIT. DRIP. FLASHING AND DOWNSPOUTS (RWL) DOWN TO CONCRETE SPLASH PADS

INTERIOR LOAD BEARING COLUMNS (ALL FLOORS): 60 MIN. FIRE-RESISTANCE RATING - 2 HR. PROVIDED 2 LAYERS - 1/2" TYPE-X DRYWALL CONCEALING COLUMN

EXTERIOR BALCONIES (2ND & 3RD FLOOR): 8" HOLLOWCORE PRE-CAST PRE-STRESSED CONCRETE FLOOR SLABS TYPE 'N' CONCRETE GROUT & TROWEL SMOOTH AT ADJOINING SLABS

D-2.3.4. METHOD OF CALCULATION

TABLE D-2.3.4.-A

TIME ASSIGNED TO PROTECTIVE MEMBRANES ON FIRE-EXPOSED SIDE OF WOOD-FRAMED WALLS

DESCRIPTION OF FINISH	TIME, M	IN
	LOADBEARING WALL	S NON-LOADBEARING WALLS
11.0 mm DOUGLAS FIR PLYWOOD PHENOLIC	C BONDED -	10 (1)
14.0 mm DOUGLAS FIR PLYWOOD PHENOLIC	C BONDED -	15 (1)
12.7 mm TYPE X GYPSUM BOARD	25 (2)	25
15.9 mm TYPE X GYPSUM BOARD	40 (2)	40 (3)
DOUBLE 12.7 mm TYPE x GYPSUM BOARD (4	4) 50	80

NOTES TO TABLE D-2.3.4.-A:

APPLIES TO STUD CAVITIES FILLED WITH MINERAL WOOL CONFORMING TO CAN/ULC-2702, AND HAVING A MASS PER UNIT AREA OF NOT LESS THAN 2 kg/m², WITH NO ADDITIONAL CREDIT FOR INSULATION.

APPLIES ONLY TO WOOD-FRAMED WALLS.

APPLIES ONLY TO STEEL-FRAMED WALLS.

RESILIENT METAL CHANNELS ARE PERMITTED TO BE INSTALLED AT A SPACING OF 400 mm O.C. WITH NO EFFECT ON THE RATING OF THE WALL ASSEMBLY

TABLE D-2.3.4.-E

TIME ASSIGNED FOR CONTRIBUTION OF WOOD-FRAMED WALLS

DESCRIPTION OF FRAME	TIME, MIN	
	LOADBEARING WALLS	NON-LOADBEARING WALLS
WOOD STUDS SPACED ≤ 400 mm O.C.	20	20
WOOD STUDS SPACED ≤ 600 mm O.C	15	15

TABLE D-2.3.4.-G

TIME ASSIGNED FOR ADDITIONAL PROTECTION

DESCRIPTION OF ADDITIONAL PROTECTION	TIME, MIN
ADD TO THE FIRE-RISTIANCE RATING OF WOOD STUD WALLS, SHEATHED WITH GYPSUM BOARD IF THE SPACES BETWEEN THE STUDS ARE FILLED WITH PREFORMED INSUALTION OF ROCK OR SLAG FIBRES CONFORMING TO CAN/ULC-S702, AND WITH A MASS PER UNIT AREA OF NOT LESS THAN 1.22 kg/m² OF WALL SURFACE	15 (1)
ADD TO THE FIRE-RESISTANCE RATING OF NON-LOADBEARING WOOD STUD WALLS, SHEATHED WITH GYPSUM BOARD IF THE SPACES BETWEEN THE STUDS ARE FILLED WITH PREFORMED INSULATION OF GLASS FIBRES CONFORMING TO CAN/ULC-S702, AND HAVING A MASS PER UNIT AREA OF NOT LESS THAN 0.67 kg/m² OF WALL SURFACE	5 (2)
ADD TO THE FIRE-RESISTANCE RATING OF LOADBEARING WOOD STUD WALLS, SHEATHED WITH GYPSUM BOARD IF THE SPACES BETWEEN THE STUDS ARE FILLED WITH INSULATION OF CELLULOSE FIBRES CONFORMING TO CAN/ULC-S703, AND HAVING A DENSITY OF NOT LESS THAN 50 kg/m³	10

NOTES TO TABLE D-2.3.4.-G:

APPLIES TO WOOD-FRAMED WALLS ONLY.

(2) APPLIES TO WOOD JOIST, WOOD TRUSSES, WOOD I-JOINSTS AND COLD-FORMED STEEL JOISTS (C-SHAPED JOISTS)

SUMMARY OF ASSEMBLIES, FIRE AND SOUND RATED AS FOLLOWS:

STORAGE ROOM NOT CONTAINED IN SUITE MECHANICAL SERVICE ROOM LOAD BEARING WALLS, COLUMNS, ARCHES FLOOR ASSEMBLY WITHIN A DWELLING UNIT JANITOR'S ROOM (SPRINKLERED) ELECTRICAL SERVICE ROOM REFUSE STORAGE PUBLIC CORRIDOR SEPARATIONS SUITE SEPARATIONS SUITE SEPARATION STC RATING **ELEVATOR SEPARATION STC RATING** SUITE DOORS 20 MIN. FIRE ALARM SYSTEM REQUIRED CONCEALED SPACES IN FLOOR AND ROOF ASSEMBLIES 300 SQ.M. (MAX)

... 45 MIN. FIRE SEPARATION 3.3.4.3.(3) .. 1 HR FIRE SEPARATION 3.6.2.1. 3.2.2.51.(2)(c) .. 45 MIN. FIRE SEPARATION 3.3.4.2. ... 45 MIN. FIRE SEPARATION ... FIRE SEPARATION NOT REQ'D 3.3.1.21. (3) . 1 HR FIRE SEPARATION 3.6.2.1. (6) .. 1 HR FIRE SEPARATION 3.6.2.5. ... 45 MIN. FIRE SEPARATION 3.3.4.2.(2) .. 45 MIN. FIRE SEPARATION 3.3.4.2.(2) 50 STC (MINIMUM) 55 STC (MINIMUM) 3.1.8.12 (1)

3.1.11.5.

TABLE 3.1.8.4. FIRE PROTECTION RATING OF CLOSURES FIRE RESISTANCE RATING

OF FIRE SEP	PARATION	RATING OF CLOSURE
45 MIN.		45 MIN.
1 HOUR		45 MIN.
1.5 HOURS		1 HOUR

ISSUED FOR BUILDING PERMIT APR. 12/24 LAS NO. DESCRIPTION DATE BY DRAWING ISSUE NUMBER / REVISIONS

SPAN WEST REQUIRED FIRE PROTECTION | SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

SCALE: SHEET 2

DRAWN BY CHK'D BY: FILE NO:

ryan schmidt

1. ALL CONSTRUCTION AND RELATED WORK SHALL COMPLY

WITH THE 2018 EDITION OF THE BRITISH COLUMBIA BUILDING

2. ONE FULL SET OF APPROVED CONSTRUCTION DOCUMENTS

3. ENSURE ACCESS TO ALL FIRE EXITS ARE MAINTAINED DURING

4. ALL DIMENSIONS ARE FROM FACE OF STUD, FACE OF GIRTS

FACE OF CONCRETE, FACE OF BLOCK OR CENTRE LINE OF GRID

UNLESS NOTED OTHERWISE. FOR STRUCTURAL DRAWINGS, ALI

CENTRE LINE OF CONCRETE PILE, CENTRE LINE OF CONCRETE

FOOTING, CENTRE LINE OF STEEL OR CENTRE LINE OF GRID

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IDENTIFIEDIN THE REVISION COLUMN. DO NOT USE THESE

DRAWINGS FOR CONSTRUCTION UNLESS THEY ARE MARKED

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9. THE ENGINEER(S) / ARCHITECT(S) DO NOT HAVE CONTROL O

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PROCEDURES, FOR SAFETY PRECAUTION AND PROGRAMS IN

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PERSONS PERFORMING ANY OF THE WORK OR FOR THE

FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN

REMAIN THE EXCLUSIVE PROPERTY OF RYAN SCHMIDT

ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PRIOR CONSENT IS STRICTLY PROHIBITED.

INTERIOR DIMENSIONS ARE FROM CENTRE LINE OF WALL,

TO BE KEPT ON SITE AND AVAILABLE FOR CHECKING AT ALL

CODE, LOCAL BYLAWS AND REGULATIONS.

TIMES DURING CONSTRUCTION.

UNLESS NOTED OTHERWISE.

"ISSUED FOR CONSTRUCTION".

FOR ITEMS NOTED ON THIS DRAWING.

GENERAL NOTES:

CONSTRUCTION.

INCLUSIONS.

STAMPS:

CLIENT:

KEY NOTES

3.1.8.12 TWENTY-MINUTE CLOSURES

1) A door assembly having a fire-protection rating not less than 20 min. is permitted to be used as a closure in a) a fire separation not required to have a fire-resistance rating more than 1h, located between

i) a public corridor and a suite.

3.1.8.13. Self-Closing Devices

1) Except as permitted by Sentence (2), every door in a fire separation shall be equipped with a self-closing device designed to return the door to the closed position after each use.

3.1.9.1. Fire Stops

1) Except as provided in in Sentence (2) to (5) and Article 3.1.9.4., penetrations of a fire separation or a membrane forming part of an assembly required to have a fire-resistance rating shall be

a) sealed by a fire stop that, when subjected to the fire test methond in CANéULC-S115, `fire Tests of Flrestop Systems, has an F rating not less than the fire-protection rating requied for closures in the fire separation in conformance with Table 3.1.8.4., or

b) cast in place (see Note A-3.1.9.1.(1)(b)).

3.1.9.5. Combustible Piping Penetrations

1) Combustible sprinkler piping is permitted to penetrate a fire separation provided the fire compartments on each side of the fire separation are sprinklered.

2) Combustible water distribution piping is permitted to penetrate a fire separation that is required to have a fire-resistance rating without being incorporated in the assembly at the time of testing as required by Article 3.1.9.2., provided the piping is protected at the penetration with a fire stop in conformance with Sentence (4).

3) Except as permitted by Sentences (4) to (5), combustible piping shall not be used in a drain, waste and vent piping system if any part of that system penetrates

a) a fire separation required to have a fire-resistance rating, or

b) a membrane that forms part of an assembly required to have a fire-resistance rating.

4) Combustibule drain, waste and vent piping is permitted to penetrate a fire separation required to have a fire-resistance rating or a membrane that forms part of an assembly required to have a fire-resistance rating, provided

a) the piping is sealed at the penetration by a fire stop that has an F rating subjected to the fire test method in CAN/ULC-S115, "Fire Tests of Firestop Systems," with a pressure differential of 50 Pa between the exposed and unexposed sides, with the higher pressure on the exposed side, and

b) the pipiing is not located in a vertical service space.

3.1.13.3. Bathrooms in Residential Suites

1) The flame-spread rating of interior wall and ceiling finishes for a bathroom within a suite of residential occupancy shall be not more than 200.

3.1.15.1.Roof Covering Classification

1) A roof covering classification shall be determined in conformance with CAN/ULC-S107-M, "Fire Tests of Roof Coverings."

3.2.1.1. Exceptions in Determining Building Height

1) A roof-top enclosure provided for elevator machinery, a stairway or a service room used for no purpose other than for service to the building, shall not be considered as a storey in calculating the building height.

3.2.2.11. Exterior Balconies

1) An exterior balcony shall be constructed in accordance with the type of construction required by Articles 3.2.2.20. to 3.2.2.90., as applicable to the occupancy classification of the building.

3.2.2.14. Roof-Top Enclosures

1) A roof-top enclosure for elevator machinery or for a service room shall be constructed in accordance with the type of construction required by Articles 3.2.2.20. to 3.2.2.90.

2) A roof-top enclosure for elevator machinery or for a service room, not more than one storey high, is not required to have a fire-resistance rating.

3) A roof-top enclosure for a stairway shall be constructed in accordance with the type of construction required by Articles 3.2.2.20. to 3.2.2.90.

4) A roof-top enclosure for a stairway need not have a fire-resistance rating nor be constructed as a fire separation.

3.2.4.8. Annunciator and Zone Indication

1) Excecpt as permitted by Sentences (3) to (5), an annuciator shall be installed in close proximitiy to a building entrance that faces a street or an access route for fire department vehicles that complies with Sentence 3.2.5.5.(1).

3.2.6. Adiitional Reugirements for High Buildings

3.2.6.1. Application

1) This subsection applies to a building

d) containing a Group C major occupancy whose floor level is more that 18m above grade.

3.2.7.4. Emergency Power for Lighting

1) An emergency power supply shall be

a) provided to maintain the emergency lighting required by this Subsection from a power source such as batteries or generators that will continue to supply power in the event that the regular power supply to the building is interrupted, and b) so designed and installed that upon failure of the regular power it will assume the electrical load automatically for a

iv) 30 min for a building of any other occupancy.

2) If self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141, "Emergency Lighting Equipment."

3.2.7.8. Emergency Power for Fire Alarm Systems

1) Fire alarm systems, including those incorporating a voice communication system, shall be provided with an emergency power supply conforming to Sentences (2), (3) and (4).

2) The emergency power supply required by Sentence (1) shall be supplied from

a) a generator,

b) a batteries, or

c) a combination thereof.

3) The emergency power supply required by Sentence (1) shall be capable of providing

a) supervisory power for not less than 24 h, and

b) immediately following, emergency power under full load for not less than

iv) 5 min for a building not required to be equipped with an annunciator, and

v) 30 min for any other building.

4) The emergency power supply required by Sentence (1) shall be designed so that, in the event of a failure of the normal power source, there is an immediate automatic transfer to emergency power with no loss of information.

3.2.7.9. Emergency Power for Building Services

1) An emergency power supply capable of operating under a full load for not less than 2 h shall be provided by an emergency generator for

b) water supply for fire fighting in conformance with Article 3.2.5.7., if the supply is dependent on electrical power supplied to the building,

3.3.4.2. Fire Separations

2) The fire-resistance rating of the fire separaiton required by Sentence (1) is permitted to be less than 1 h but not less than 45 min provided the fire-resistance rating required by Subsection 3.2.2. is permitted to be less than 1 h for

a) the floor assembly above the floor area, or

b) the floor assembly below the floor area, if there is no floor assembly above.

3.3.4.3. Storage Rooms

1) Sprinklers shall be installed in a storage room provided for the use of tenants in a residential occupancy within a floor area but not contained within a suite.

3) The fire-resistance rating of the fire separaiton required by Sentence (2) is permitted to be less than 1 h but not less than 45 min provided the fire-resistance rating required by Subsection 3.2.2. is permitted to be less than 1 h for

a) the floor assembly above the floor area, or

b) the floor assembly below the floor area, if there is no floor assembly above.

3.3.4.6. Sound Transmission

1) Sound transmission class ratings of building assemblies shall conform to Section 5.8.

5.8.1.1. Required Protection

1) Except as provided in Sentence (2) a dwelling unit shall be separated from every other space in a building in which noise may be generated by

b) a separating assembly providing a sound transmission class (STC) rating of not less than 50 and adjoining contructions that

2) Construction separating a dwelling unit from an elevator shaft shall have an STC rating not less than 55.

5.8.1.3. Compliance with Required Ratings

1) Compliance with the required STC ratings shall be demonstrated through

b) the construction of separating assemblies conforming to those presented in Table 9.10.3.1.-A or 9.10.3.1.-B, as applicable.

3.3.4.7. Stairs, Landings, Handrails and Guards for Dwelling Units

1) Stairs, landings, handrails and guards within a dwelling unit shall conform to the appropriate requirements in Section 9.8.

3.4.2.5. Location of Exits

1) Except as permitted by Sentences (2) and 3.3.2.5.(6), if more than one exit is required from a floor area, the exits shall be located so that the travel distance to at least one exit shall be not more than

c) 45 m in a floor area that contains an occupancy other than a high hazard industrial occupancy, provided it is sprinklered throughout

3.4.3.2. Exit Width

1) The minimum aggregate width of required exits serving residential occupancies shall be determined by multiplying the occupant load of the area served by

a) 6.1 mm per person for corridors

8) The minimum widths of exits shall conform to to Table 3.4.3.2.A.

i) be not less than 1 100 mm for corridors and passageways, and stairs and ramps.

ii) be not less than 800 mm for doorways

3.4.6.2. Minimum Number of Risers

1) Except as permitted by Sentence 3.3.2.15.(1), every flight of interior stairs shall have not less than 3 risers.

3.4.6.3. Maximum Vertical Rise of Stair Flights and Required Landings

1) No flight of stairs shall have a vertical rise of more than 3.7 m between floors or landings.

2) Except as provided in Sentence (3), a landing shall be provided

a) at the top and bottom of each flight of interior and exterior stairs, b) at the top the top and bottom of every section of ramp,

c) where a doorway opens onto a stair or ramp,

d) where a ramp opens onto a stair, and

e) where a stair opens onto a ramp.

3) A landing may be omitted at the bottom of an exterior stair or ramp, provided there is no gate, door or fixed obstruction within the lesser of

a) the width of the stair or ramp, or

b) 1 100 mm.

3.3.1.9. Corridors

1) The minimum width of a public corridor shall be 1 100 mm.

3.4.6.5. Handrails

1) One handrail shall be provided on stiars that are less than 1 100 mm in width.

2) One handrail shall be provided on each side of

a) stiars that are 1 100 mm or more in width

3.4.6.6. Guards

1) Every exit shall have a wall or a well-secured guard on each side, where

a) there is a difference in elevation of more tha 600mm between the walking surface and the adjacent surface, or b) the adjacent surface within 1.2m of the walking surface has a slope of more than 1 in

6) In a stairway, a window for which the destance measured vertically between the bottom of the window and a line drawn through the outside edges of the stair nosings is less than 900 mm, or a sindow that estends to less than 1 070 mm above the landing, shall

a) be protected by a guard that is

i) located approximately 900 mm above a line drawn through the outside edges of the stair nosing, or

ii) not less than 1 070 mm high measured to the top of the guard from the surface of the landing, or

b) be fixed in position and designed to resist the lateral design loads specified for guars and walls in Articles 4.1.5.14. and 4.1.5.16.

3.4.6.7. Ramp Slope

1) The maximum slope of a ramp shall be

a) 1 in 10 in any residential occupancy.

3.4.6.8. Treads and Risers

1) Except as permitted for dwelling units, steps for stairs shall have a run of not less than 280 mm between successive steps. 2) Steps for stairs referred to in Sentence (1) shall have a rise between successive treads not less than 125mm and not more than 180mm.

3.5.2.1. Elevators, Escalators and Dumbwaiters

1) The design, construction, installation and alteration of every elevator, escalator and dumbwaiter shall conform to a) provincial or territorial regulations or municipal bylaws, or

b) ASME A17.1/CSA B44, "Safety Code for Elevators and Escalators," in absence of the regulations or bylaws referred to in Clause (a).

(See Note A-3.5.2.1.(1).)

2) Before placing in service, every elevator installation, including safety and control devices, shall be inspected and tested in accordance with

a) provincial or territorial regulations or municipal bylaws, or

b) ASME A17.1/CSA B44, "Safety Code for Elevators and Escalators," in absence of the regulations or bylaws referred to in Clause (a). (See Note A-3.5.2.1.(1).)

3) Passenger elevators shall conform to Appendix E of ASME A17.1/CSA B44, "Safety Code for Elevators and Escalators."

3.5.3.3. Fire Separations for Elevator Machine Rooms

1) Except as permitted by Sentence (2), a room containing elevator machinery shall be separated from all other parts of the building by a fire separation having a fire-resistance rating not less than that required for the vertical service space containing the elevator hoistway.

3.6.1.4. Storage Use Prohibition

1) Service spaces shall not be designed to facilitate subsequent use as storage space.

3.6.3.1. Fire Separations for Vertical Service Spaces

1) Except as provided in Articles 3.6.3.3. and 3.6.3.5. and Section 3.5., a vertical service space shall be separated form all other portions of each adjacent strorey by a fire separation having a fire-resistance rating conforming to Table 3.6.3.1. for the fireresistance rating required by Subsection 3.2.2. for

a) the floor assembly above the storey, or

b) the floor assembly below the storey, if there is no floor assembly above.

Table 3.6.3.1

Fire Separations for Vertical Service Spaces

Fire-Resistance Rating of Fire Separation Required for Floor Assembly minimum fire-Resistance Rating of Vertical Service Space

2) A vertical service space that does not extend through the roof of a building shall be enclosed at the top with construction having a fire-resistance rating not less than that required for the vertical service space walls.

3.8.2.3. Areas Requiring Access

1)Except as permitted by Sentence (2), access from the accessible entrances required by Sentences 3.8.2.2.(1) and (2) shall be provided throughout the entrance storey or storeys and within all other normally occupied floor areas as required by Sentence 3.8.2.1.(1).

3.8.3.5. Ramps

1) A ramp located in an accessible path of travel shall

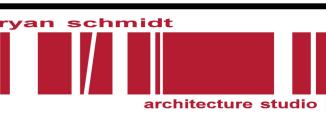
a) have a width of not less than 1500 mm (see Note A-3.4.3.4.),

b) have a slope of not more than 1 in 12 (see Note A-3.8.3.5.(1)(b)),

c) have a level area not less than 1 500 by 1 500 mm at the top and bottom and at intermediate levels of a ramp leading to a door, so that on the latch side the level area extends not less than

i) 600 mm beyond the edge of the door opening where the door opens towards the ramp, or

ii) 300 mm beyond the edge of the door opening where the door opens away from the ramp. (see Note A-3.8.3.5.(1)(c)),



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3. ENSURE ACCESS TO ALL FIRE EXITS ARE MAINTAINED DURING

4. ALL DIMENSIONS ARE FROM FACE OF STUD, FACE OF GIRTS FACE OF CONCRETE, FACE OF BLOCK OR CENTRE LINE OF GRID INTERIOR DIMENSIONS ARE FROM CENTRE LINE OF WALL, CENTRE LINE OF CONCRETE PILE, CENTRE LINE OF CONCRETE FOOTING, CENTRE LINE OF STEEL OR CENTRE LINE OF GRID UNLESS NOTED OTHERWISE.

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6. REFER TO CONTRACT DOCUMENTS FOR SPECIFIC

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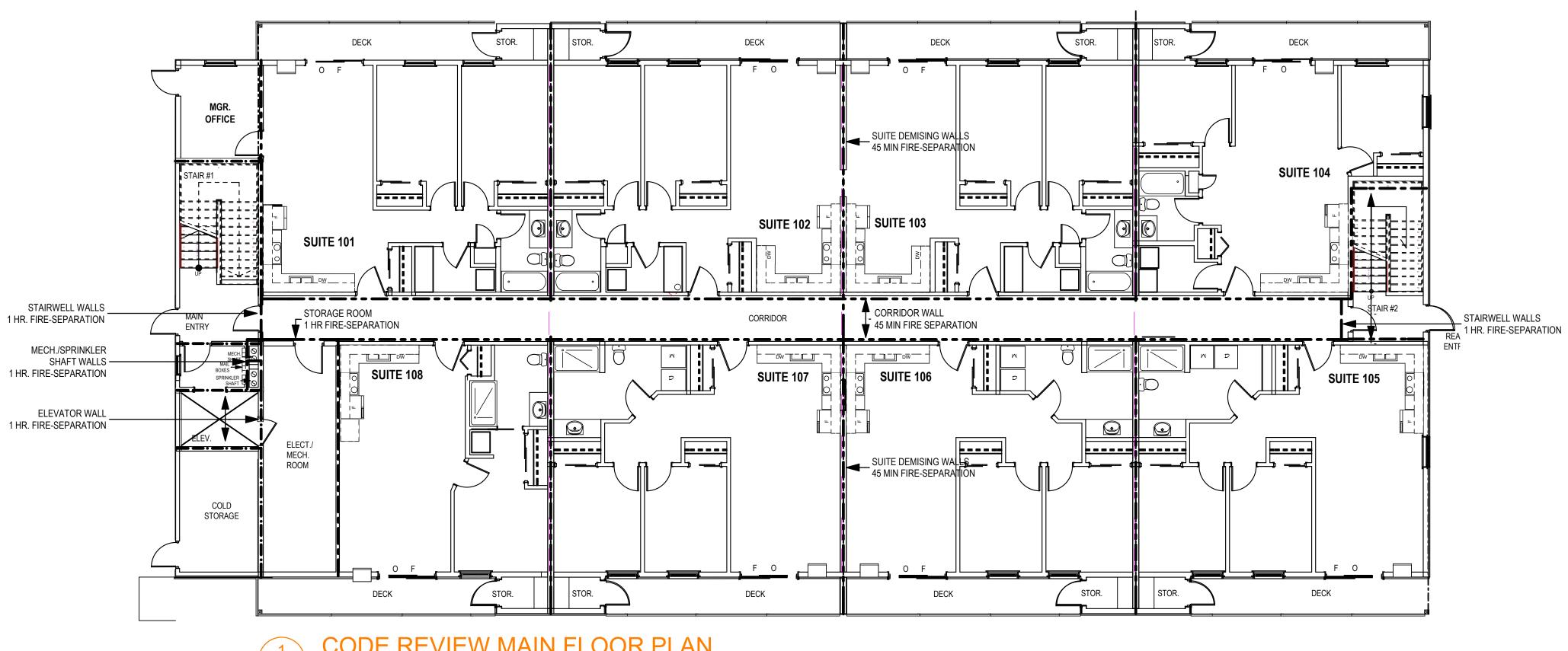
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PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

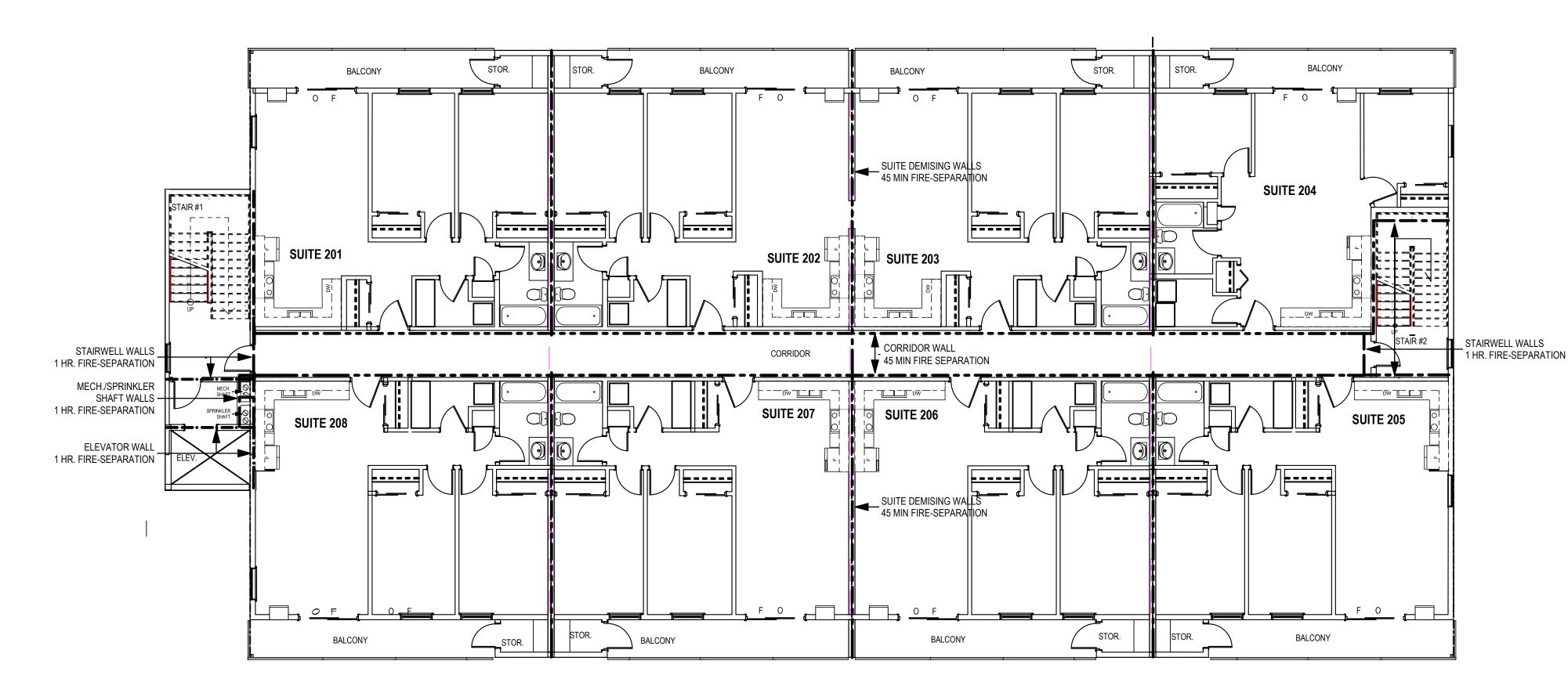
CODE ANALYSIS

SCALE:	SHEET 3
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CHK'D BY:	AU.3
FILE NO:	



1 CODE REVIEW MAIN FLOOR PLAN

A0.4 SCALE: 1/8" = 1'-0"



2 CODE REVIEW 2ND FLOOR PLAN

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



45 MIN. FIRE SEPARATION

45 MIN. FIRE RESISTANCE RATING LOAD BEARING WALLS, COLUMNS, ARCHES, BEAMS 3.2.2.69.2(b)

1 HOUR FIRE SEPARATION

1 1/2 HOUR FIRE SEPARATION

SEE KEY NOTE SHEET A0.2 FOR SPECIFIC WALL SPECIFICATIONS & CONSTRUCTION RATINGS.

1) EXTEND FIRE-RATED WALL ASSEMBLY OF FIRE-RATED WALLS (FIRE-SEPARATIONS) TO CEILING DRYWALL (U/S OF ROOF TRUSSES).
2) MECHANICAL DUCTS PENETRATING FIRE-SEPARATION SHALL CONTAIN FIRE-DAMPERS. DUCTS MAY BE SHAFTED DIRECTLY TO THE EXTERIOR IN INDIVIDUAL FIRE-RATED SHAFTS WITHOUT THE USE OF A FIRE-DAMPER. DUCTS DO NOT REQUIRE FIRE DAMPERS WHEN PENETRATING LOAD-BEARING WALLS THAT ARE FIRE-RESISTANCE RATINGS ONLY AND THAT ARE NOT FIRE-SEPARATIONS.

3) RATED DRYWALL APPLIED BEFORE DUCTWORK INSTALLED.

3.1.11.5. FIRE BLOCKS IN HORIZONTAL CONCEALED SPACES

1) EXCEPT FOR CRAWL SPACES CONFORMING TO SENETENCE 3.1.11.6.(1) AND AS REQUIRED IN SENTENCE (3), HORIZONTAL CONCEALED SPACES WITHIN A FLOOR ASSEMBLY OR ROOF ASSEMBLY OF COMBUSTIBLE CONSTRUCTION, IN WHICH SPRINKLERS ARE NOT INSTALLED, SHALL BE SEPARATED BY CONSTRUCTION CONFORMING TO ARTICLE 3.1.11.7. INTO COMPARTMENTS

b) NOT MORE THAN 300 m2 IN AREA WITH NO DIMENSION MORE THAN 20m IF THE EXPOSED CONSTRUCTION MATERIALS WITHIN THE SPACE HAVE A FLAME-SPREAD RATING MORE THAN 25.

architecture studio Itd

ryan schmidt

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3. ENSURE ACCESS TO ALL FIRE EXITS ARE MAINTAINED DURING CONSTRUCTION.

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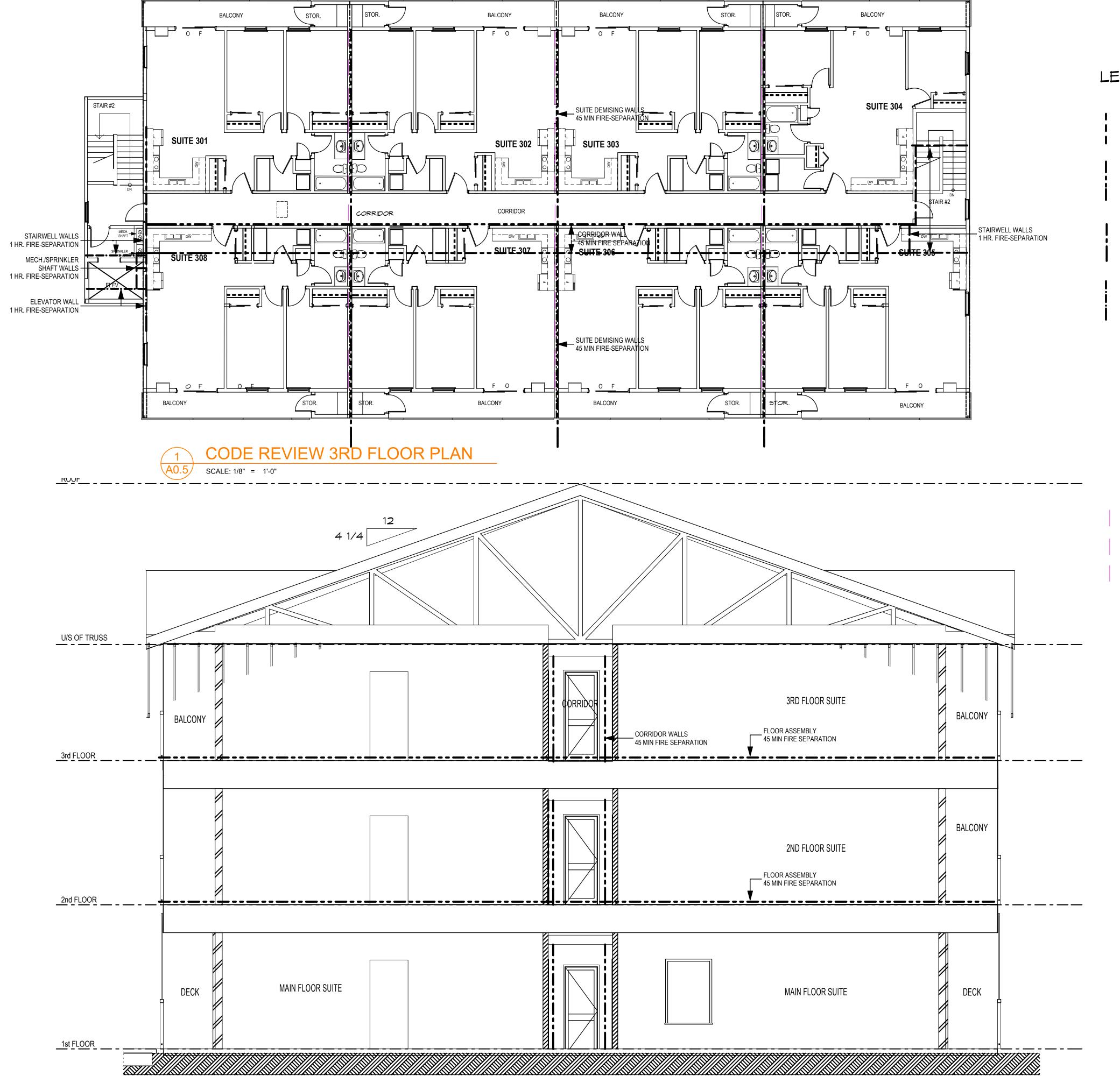
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SPAN WEST SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

CODE REVIEW





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b) NOT MORE THAN 300 m2 IN AREA WITH NO DIMENSION MORE THAN 20m IF THE EXPOSED CONSTRUCTION



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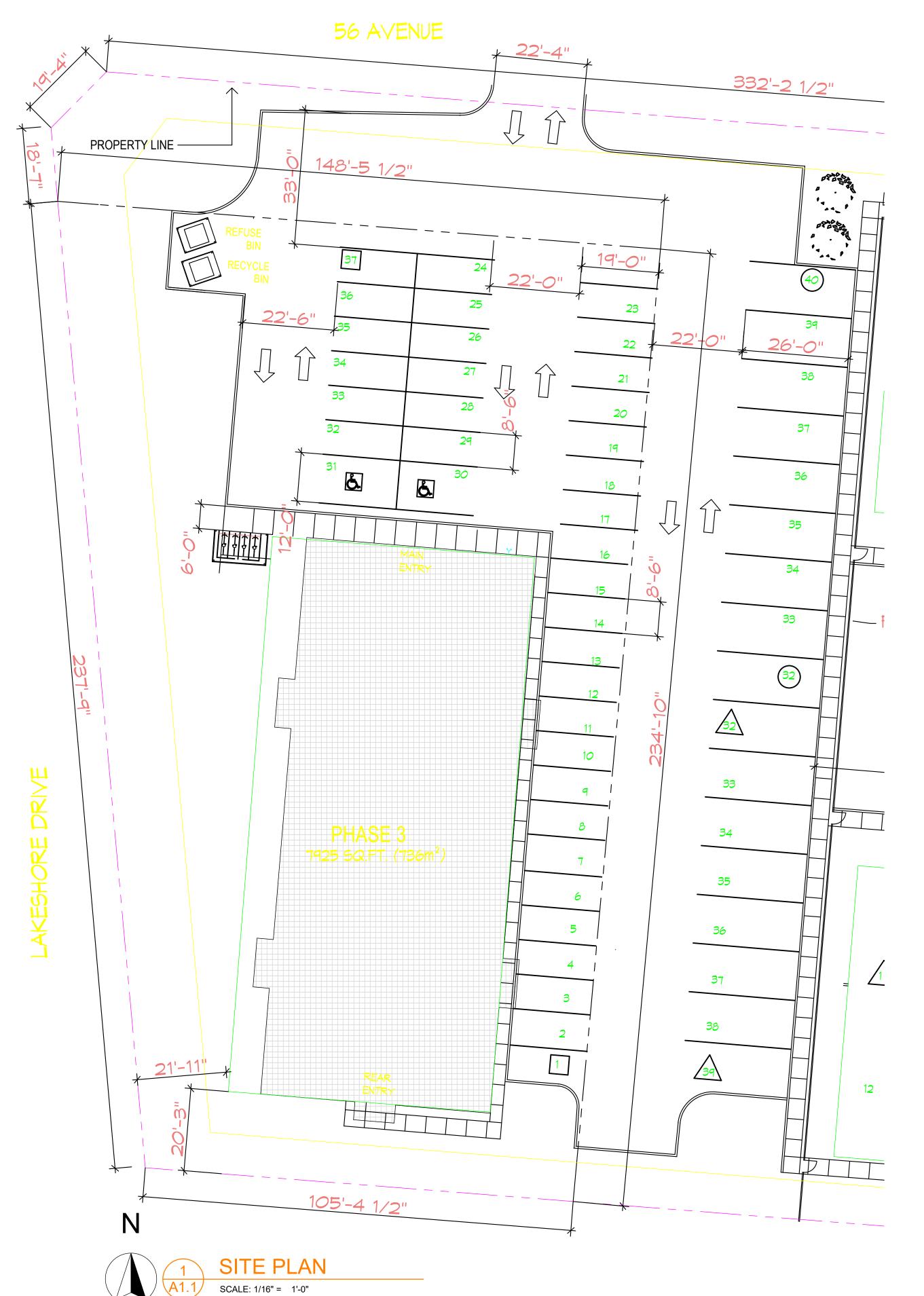
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A0.5

CODE REVIEW

2 CODE REVIEW SECTION AA
A0.5 SCALE: 1/4" = 1'-0"



ZONING:

R7 - HIGH DENSITIY RESIDENTIAL MULTIPLE FAMILY DWELLING

SITE AREA

= 29,808 SQ. FT. (2,769 SQ. M) (0.276 HECTARE)

0.276 HECTARES = 21 UNITS

APARTMENT BUILDING FOOTPRINT = 7,925 SQ. FT. (736 SQ. M)

BUILDING HEIGHT = 37'-7" (+/-)

MINIMUM FRONT YARD: 19'-8" (6.0 M)
MINIMUM REAR YARD: 19'-8" (6.0 M)
MINIMUM SIDE YARD APARTMENT: 14'-9" (4.5 M)

PARKING:

MULTIPLE DWELLING UNITS: 1.75 PARKING SPACES PER DWELLING

21 X 1.75 = 37 PARKING STALLS REQUIRED = 37 PARKING STALL PROVIDED

APARTMENT:

3.2.3.1. LIMITING DISTANCE AND AREA OF UNPROTECTED OPENINGS

TABLE 3.2.3.1.-D

1ABLE 3.2.3.1D			
EXPOSING BUILDING FACE	AREA OF UNPROTECTED OPENING %		
MAX. AREA m ² 168.65 m ² (N) 168.65 m ² (S) 407.30 m ² (E) 407.30 m ² (W)	LIMITING DISTANCE, m 100% OPENINGS; 33.5m 52% OPENINGS; 6m 52% OPENINGS; 6m 60% OPENINGS; 6.7m		



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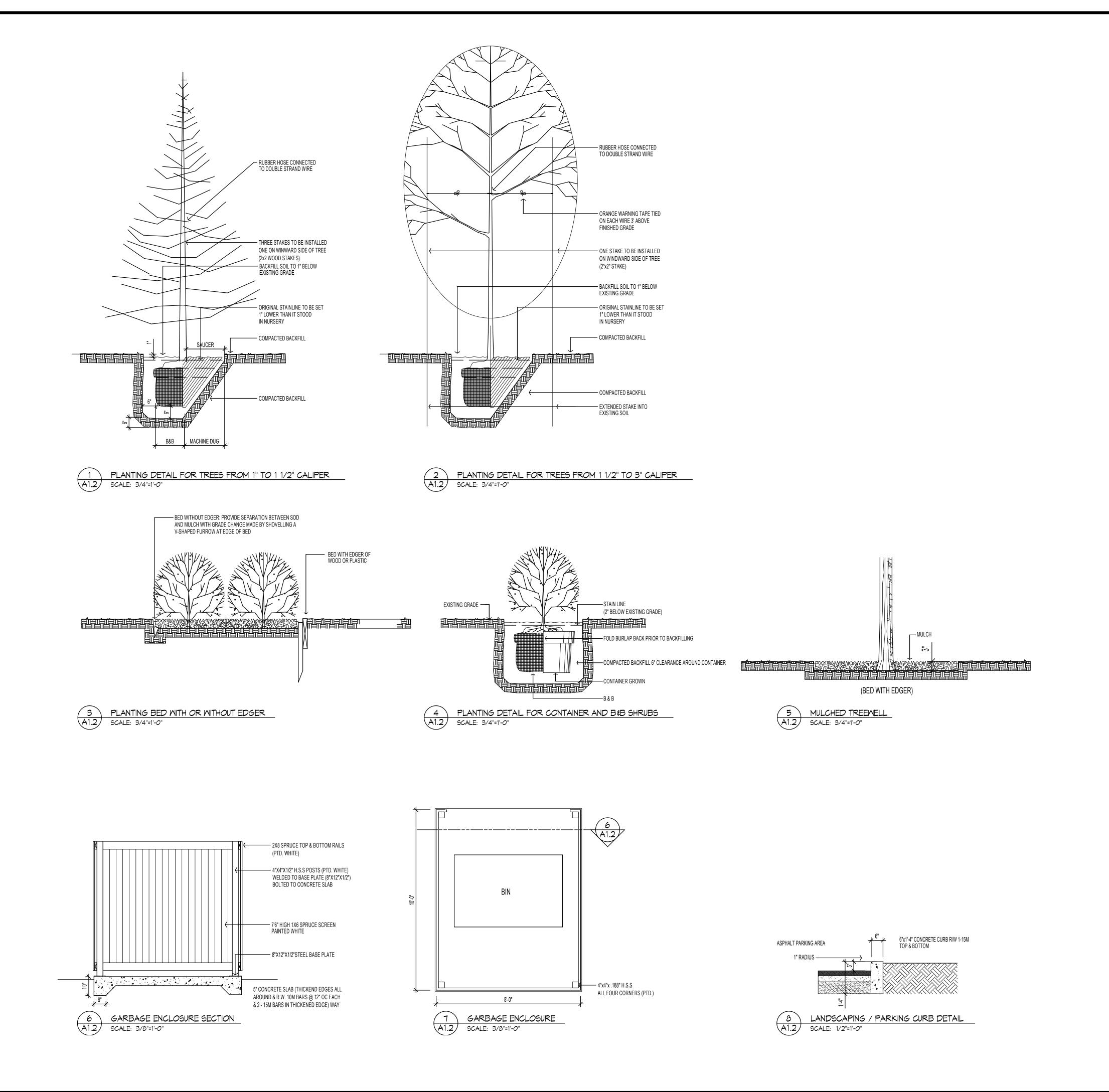
STAMPS:

CLIENT:
SPAN WEST
SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

SITE PLAN





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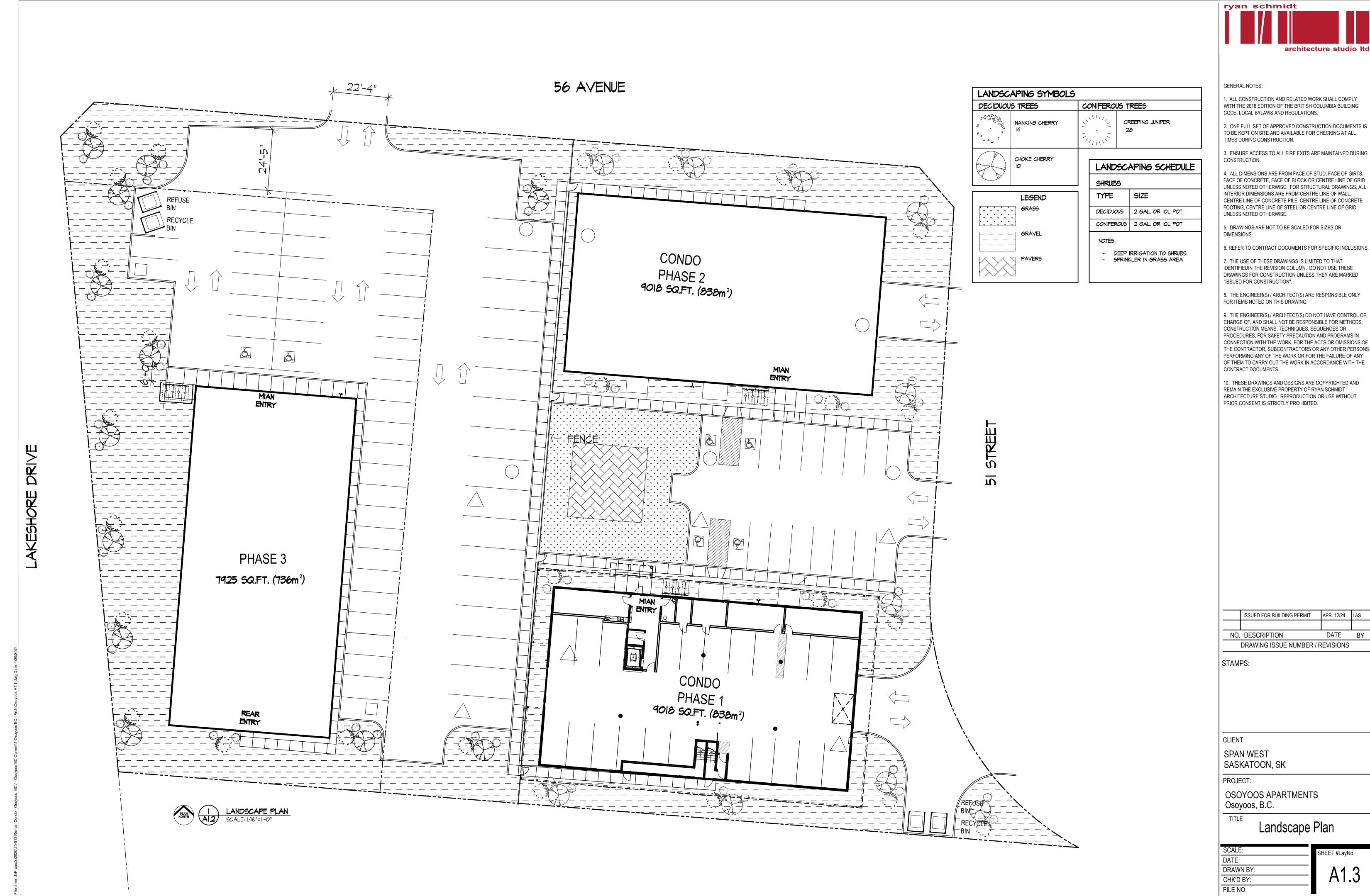
STAMPS:

SPAN WEST SASKATOON, SK

PROJECT:

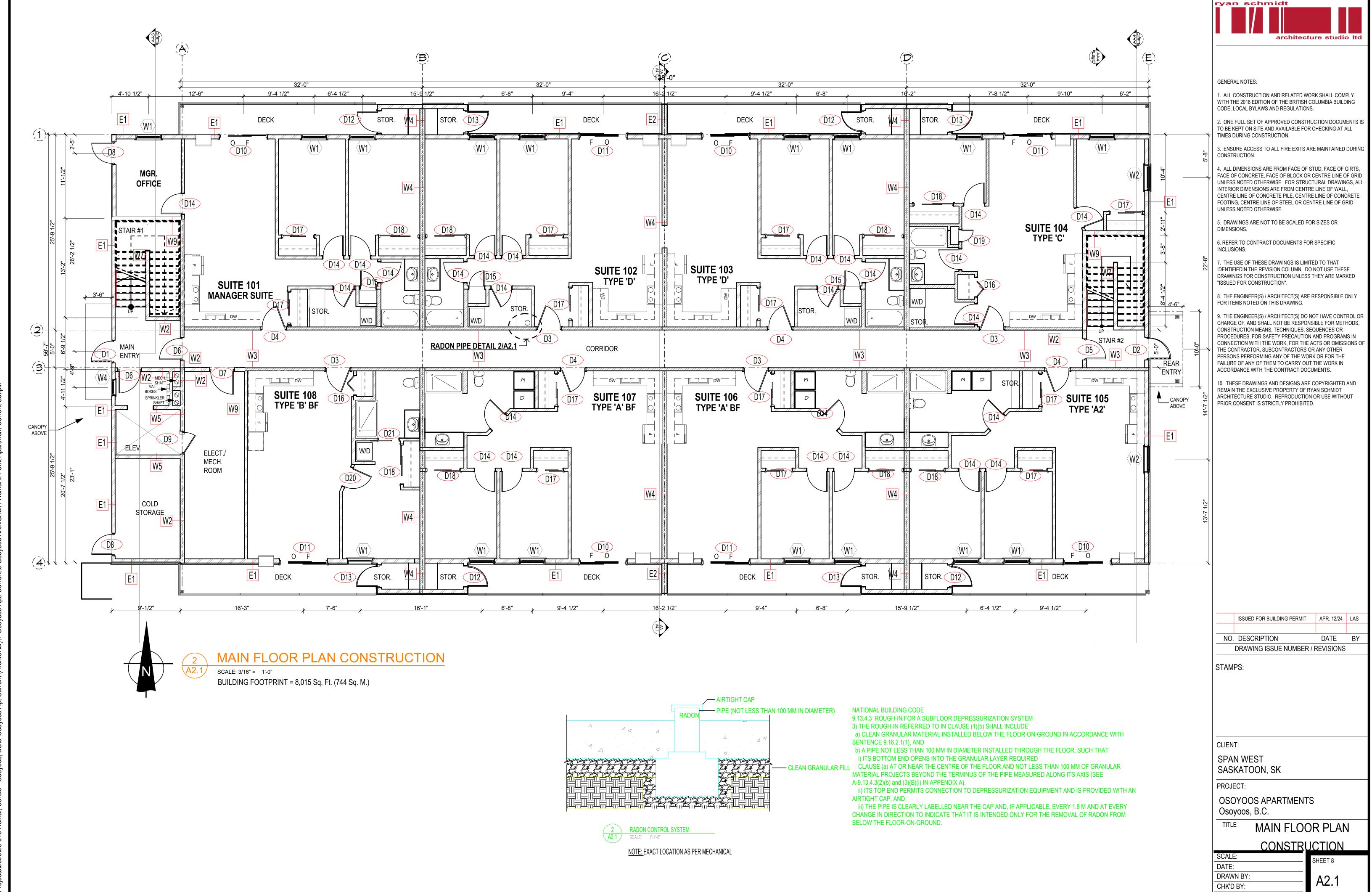
OSOYOOS APARTMENTS Osoyoos, B.C.

TITLE LANDSCAPING DETAILS



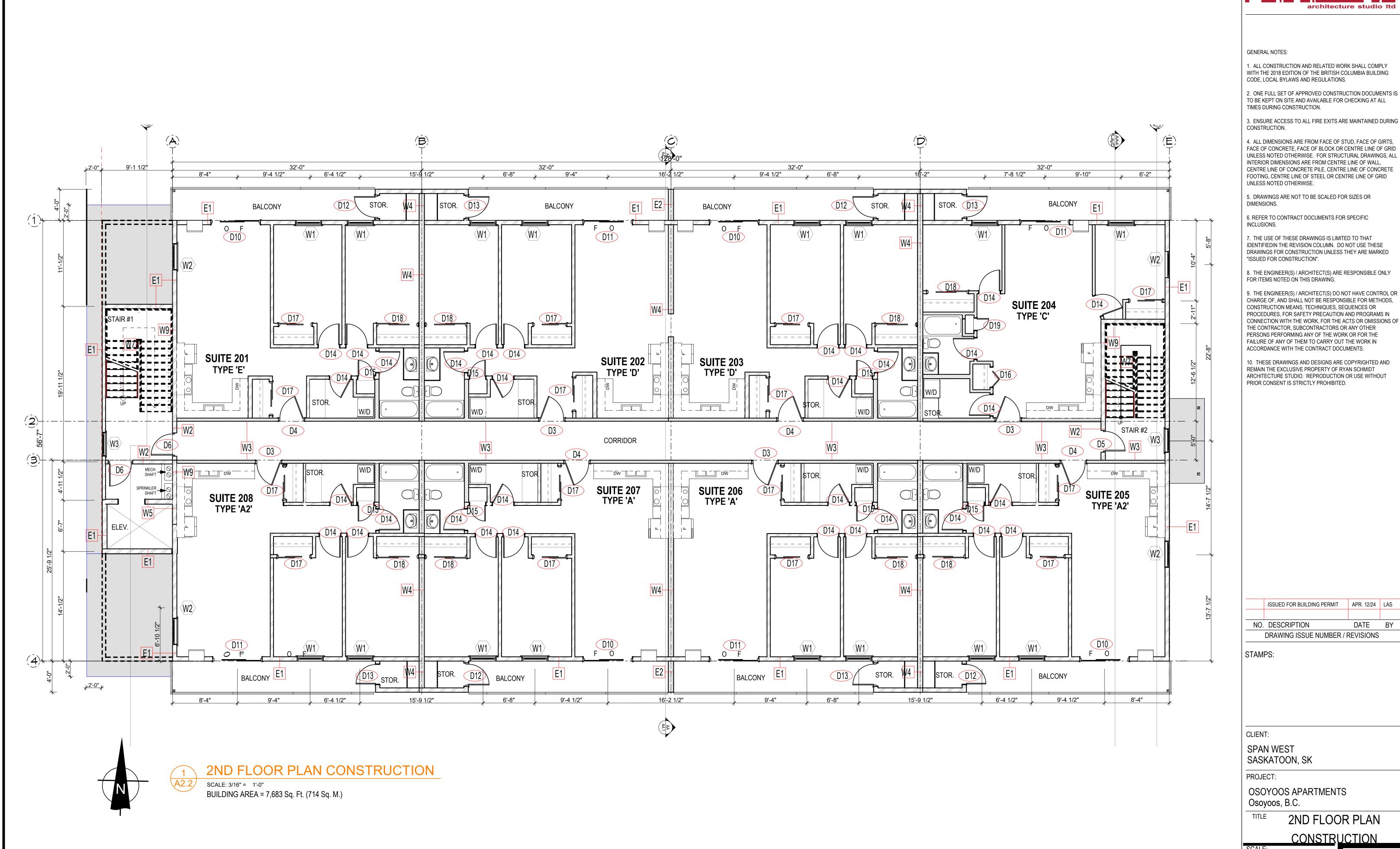


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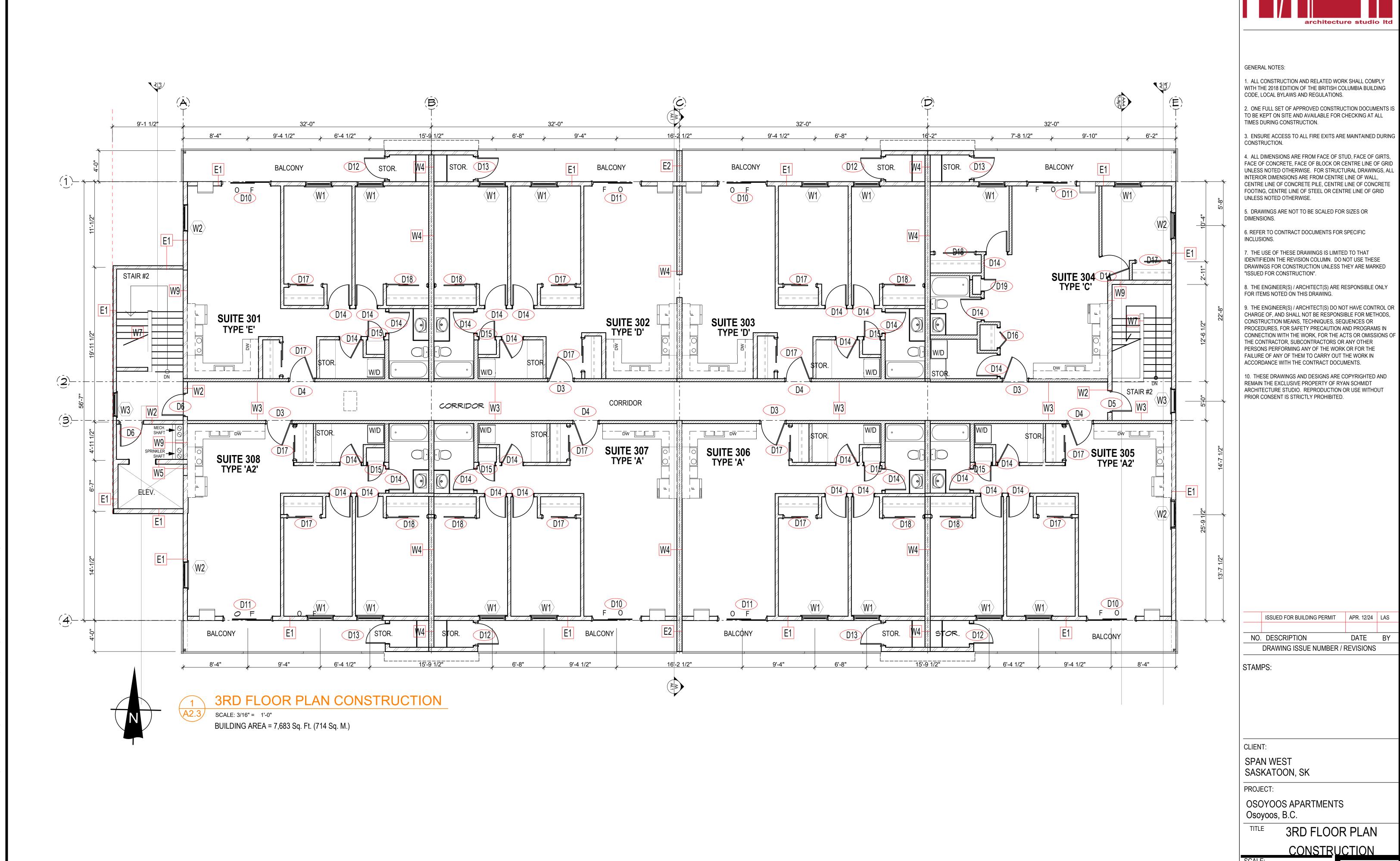
FILE NO:

J.\Projects\2020\20-013 Remai. Condo - Osovoos. BC\5-Osovoos Apt Current (ArchiCAD)\1-Osovoos Apt. Current\0-Osovoos ArchiCAD\1-Remai 24 Unit Ap

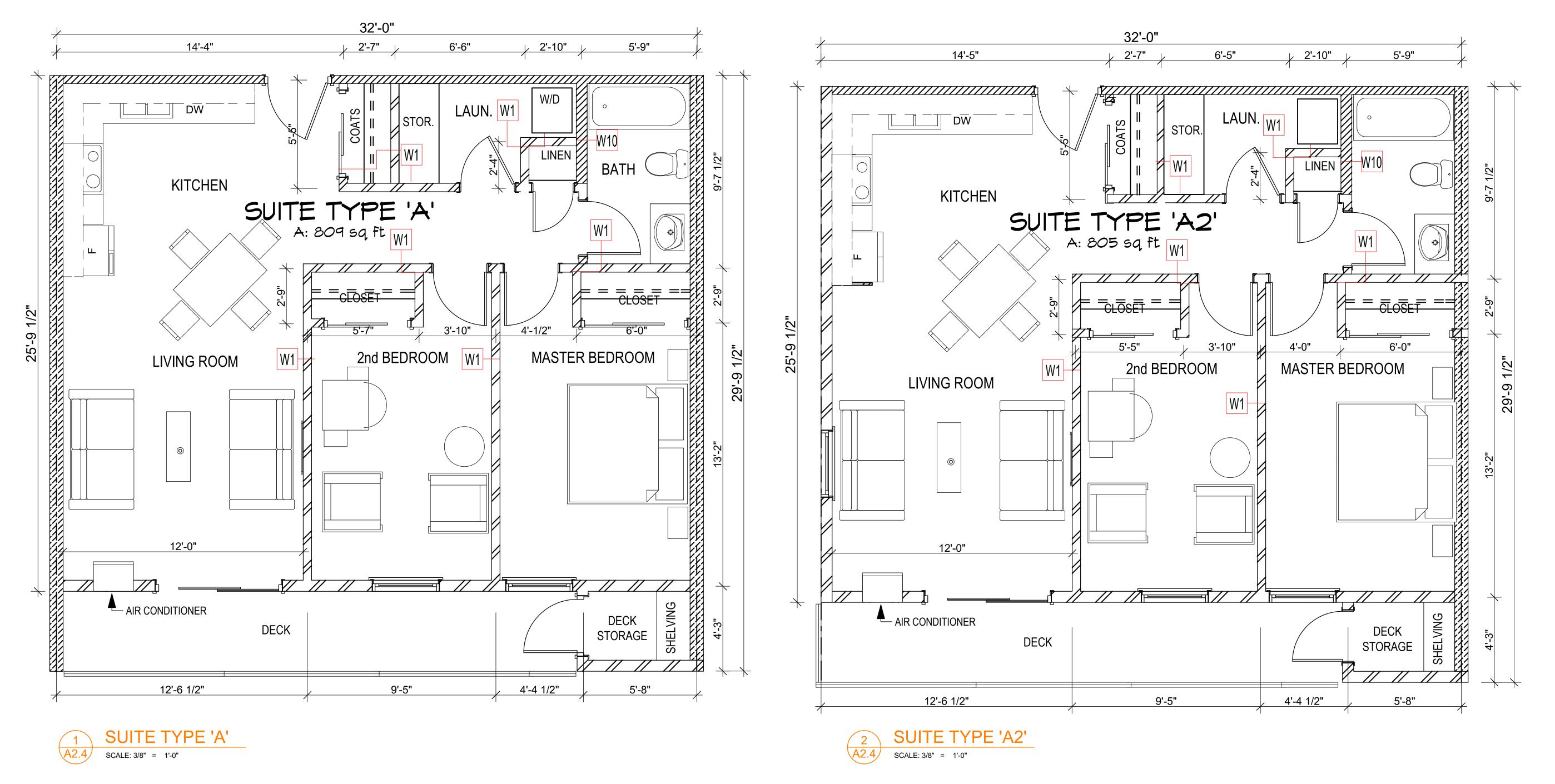


ryan schmidt

architecture studio



ryan schmidt



ryan schmidt
architecture studio

GENERAL NOTES:

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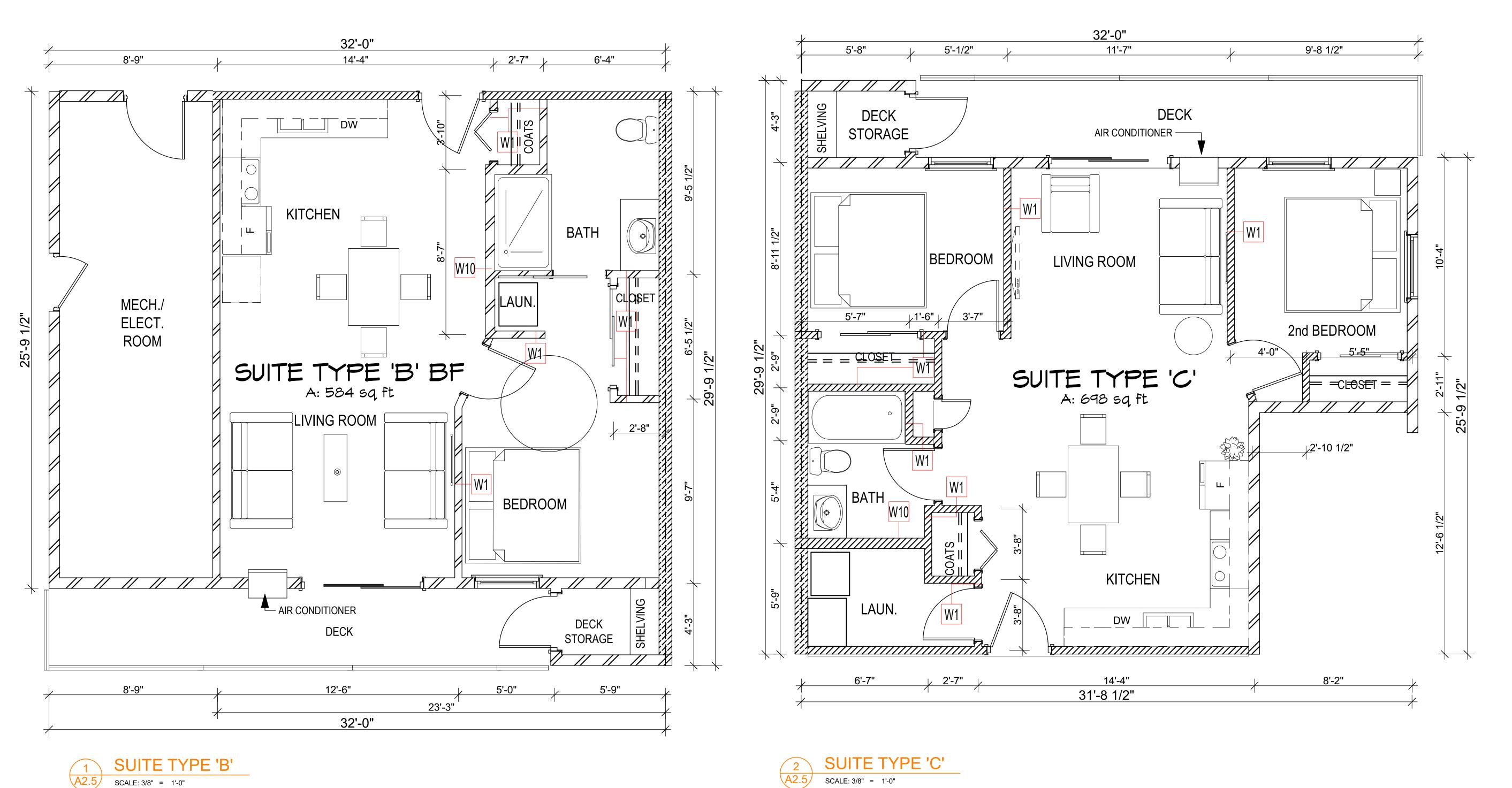
CLIENT:

SPAN WEST SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

SUITE TYPES 'A & A2'





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DRAWING ISSUE NUMBER / REVISIONS

STAMPS:

CLIENT:
SPAN WEST

SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

SUITES TYPE 'B & C'

SCALE:
DATE:
DRAWN BY:
CHK'D BY:
FILE NO:

J:\Projects\2020\20-013 Remai, Condo - Osoyoos, BC\5-Osoyoos Apt Current (ArchiCAD)\1-Osoyoos Apt. Current\0-Osoyoos ArchiCAD\1-Remai 24 Unit Apartment (



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STAMPS:

SPAN WEST SASKATOON, SK

PROJECT:

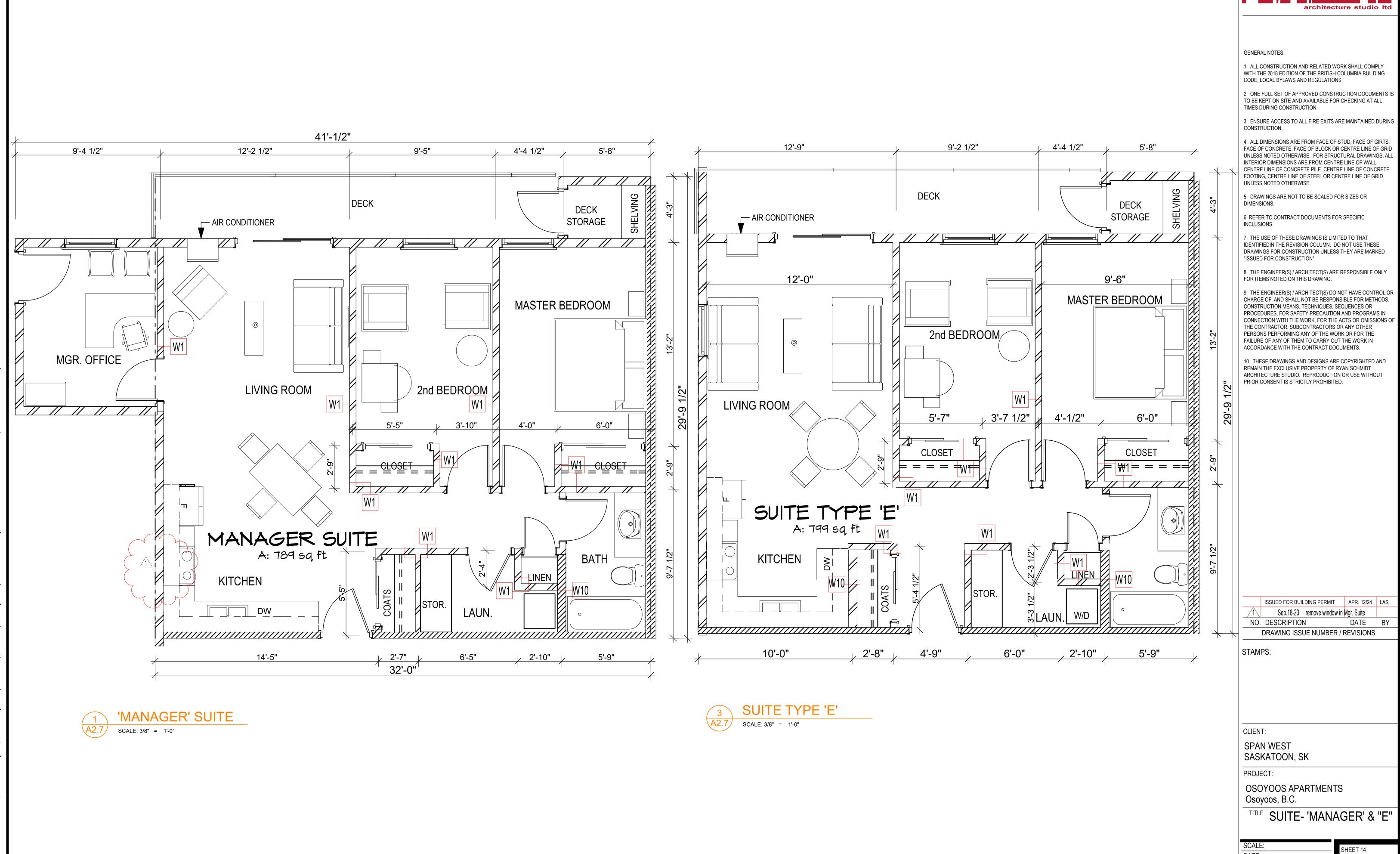
OSOYOOS APARTMENTS Osoyoos, B.C.

SUITE TYPE 'D'

SCALE:
DATE:
DRAWN BY:
CHK'D BY:
FILE NO:

SUITE TYPE 'D'

A2.6 SCALE: 3/8" = 1'-0"



ryan schmidt

DRAWN BY
CHK'D BY:
FILE NO:

ts\2020\20-013 Remai, Condo - Osoyoos, BC\5-Osoyoos Apt Current (ArchiCAD)\1-Osoyoos Apt. Current\0-Osoyoos ArchiCAD\1-Remai 24 Unit A





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NO. DESCRIPTION DATE BY

DRAWING ISSUE NUMBER / REVISIONS

STAMPS:

CLIENT:
SPAN WE

SPAN WEST SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

SUITE TYPE 'A' BF





SOUTH ELEVATION PERSPECTIVE

24" FAUX ROOF VENTS -----**◄** 25 YEAR ASPHALT SHINGLES U/S OF TRUSS → PREFINISHED METAL FLASHING +31-5" → HORIZONTAL VINYL SIDING BALCONY RAILINGS MOUNTED ONTO FRONT OF SLAB 3rd FLOOR +22'-4" 2nd FLOOR 1st FLOOR = ±0" REAR ENTRANCE CANOPY

SCALE: 3/16" = 1'-0"

24" FAUX ROOF VENTS —— HARDISHINGLE — **ROOF TOP** 25 YEAR ASPHALT SHINGLES -PREFINISHED METAL FLASHING -HORIZONTAL VINYL SIDING ──► BALCONY RAILINGS __ MOUNTED ONTO FRONT OF SLAB OSOYOOS APARTMENTS CULTURED STONE -MAIN ENTRY VESTIBULE ----



NORTH ELEVATION PERSPECTIVE

SCALE: 1:43.57

NORTH ELEVATION SCALE: 3/16" = 1'-0"

ryan schmidt

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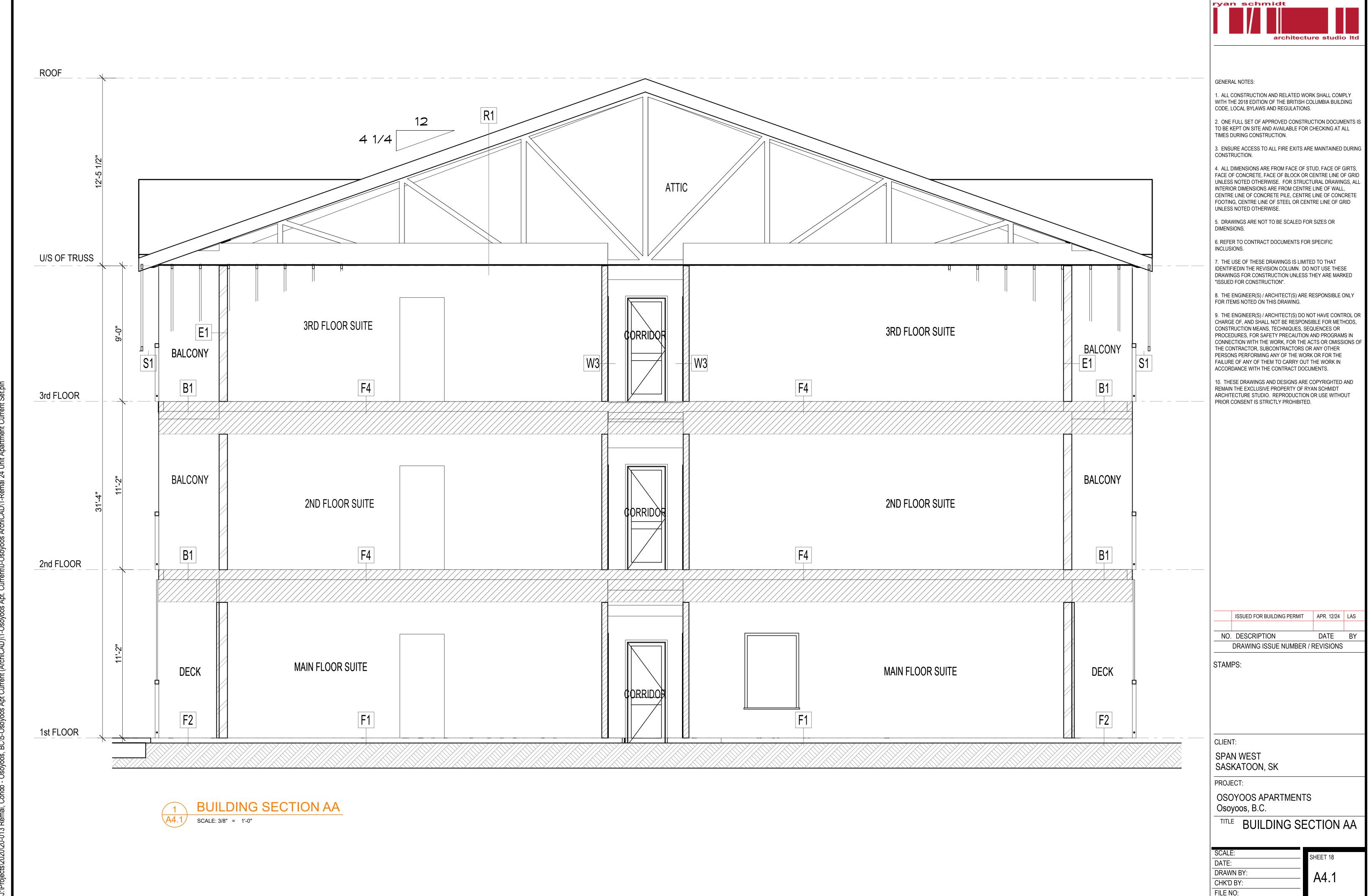
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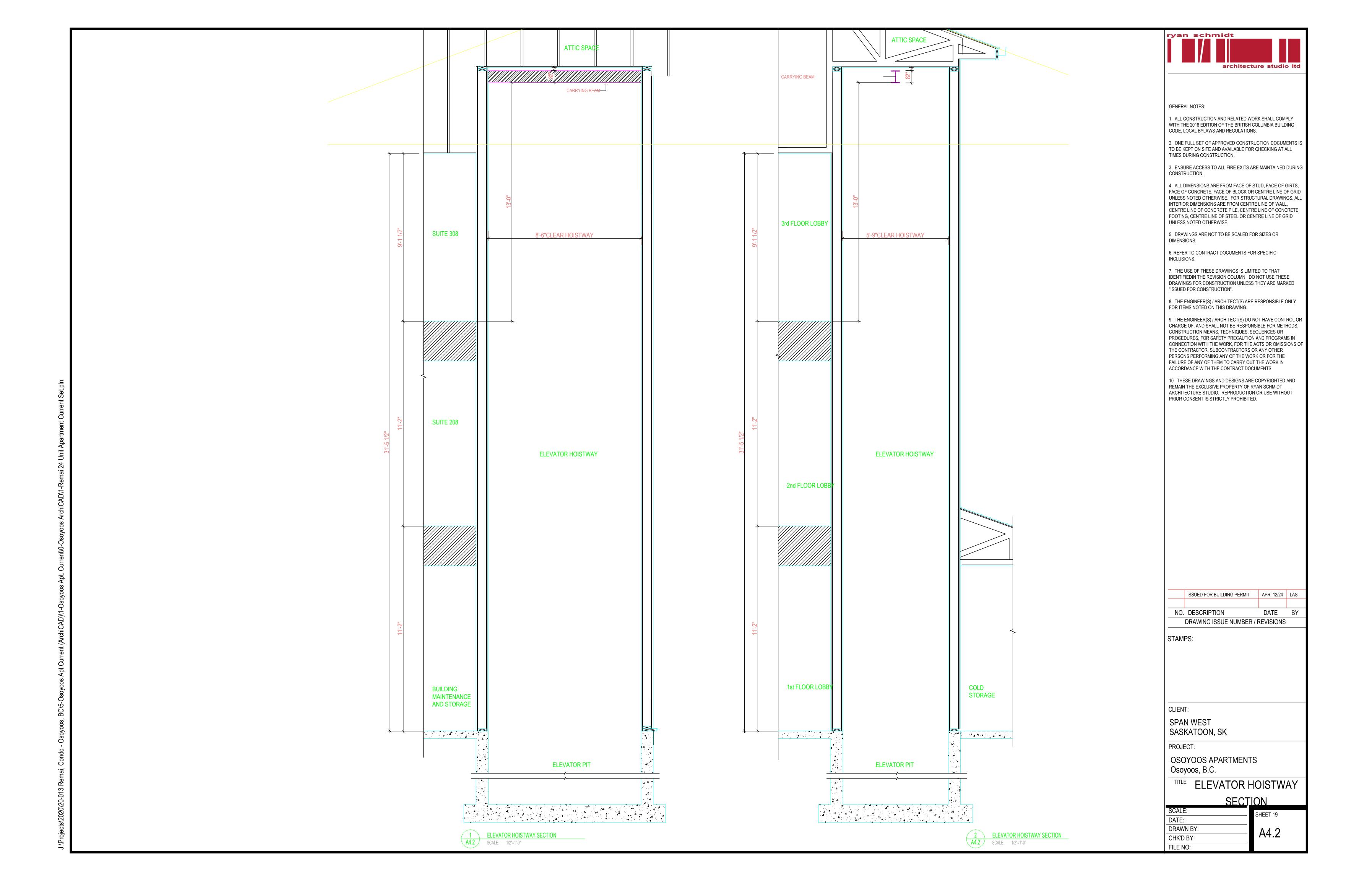
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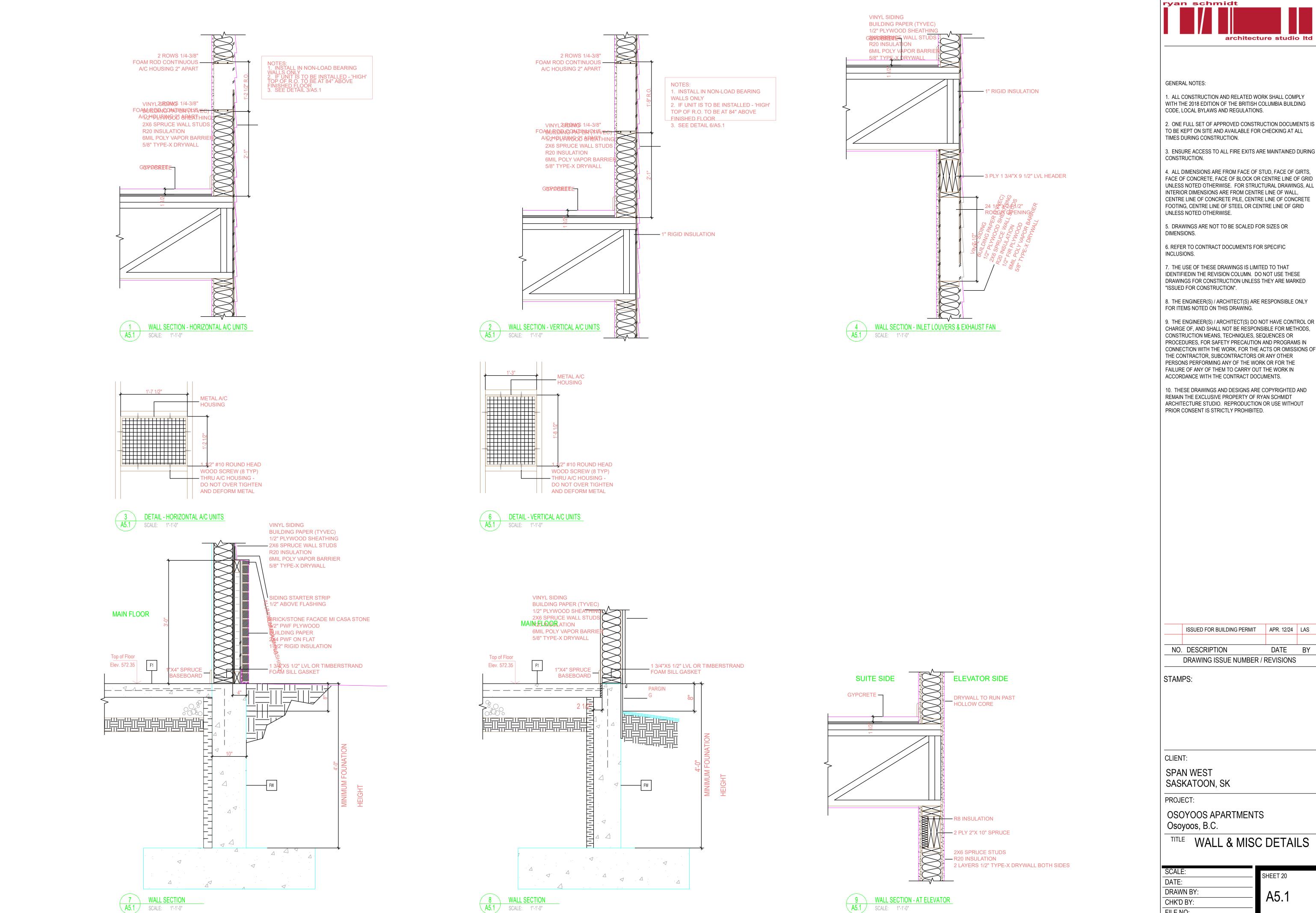
OSOYOOS APARTMENTS Osoyoos, B.C.

EAST & WEST

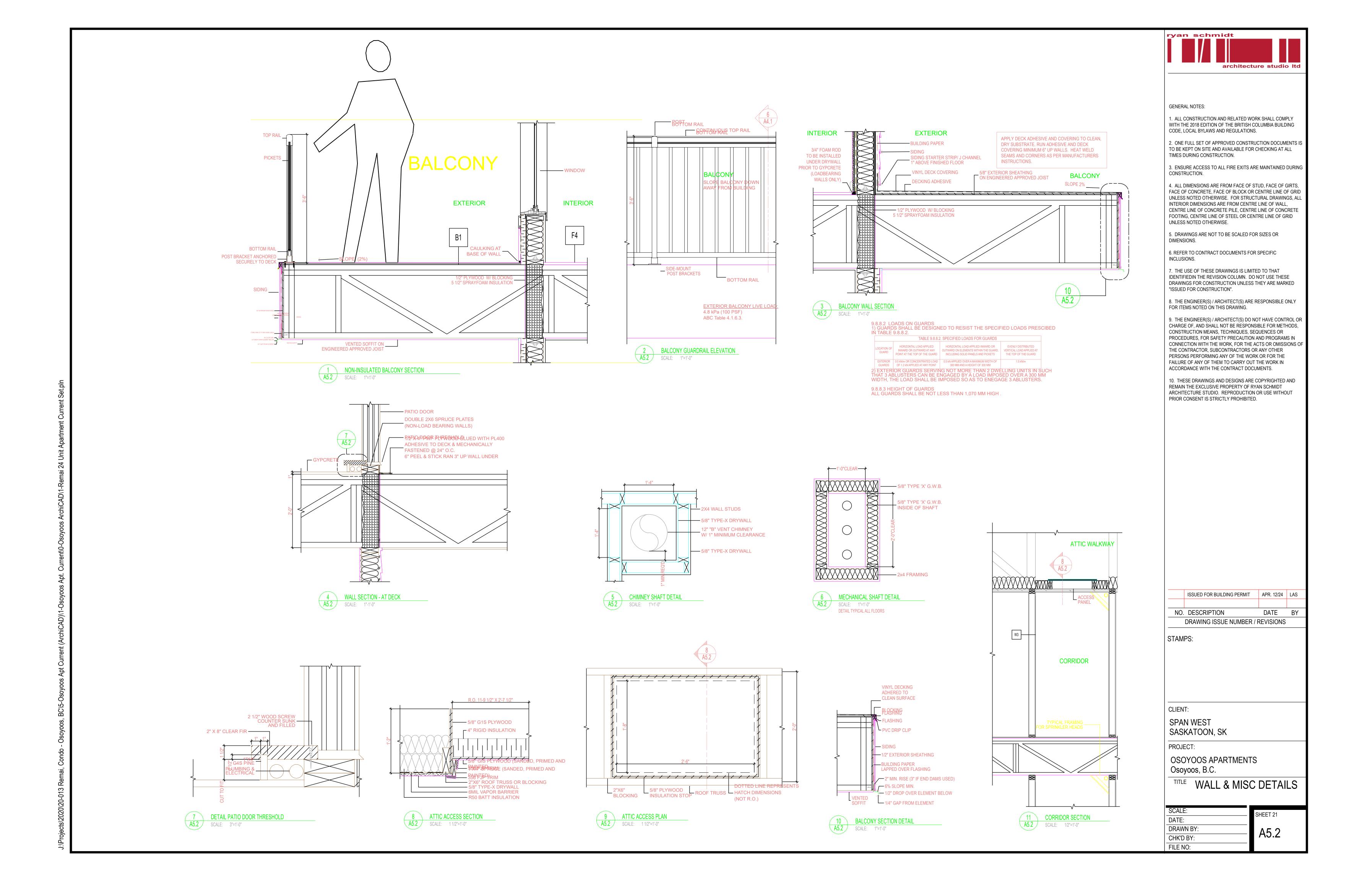
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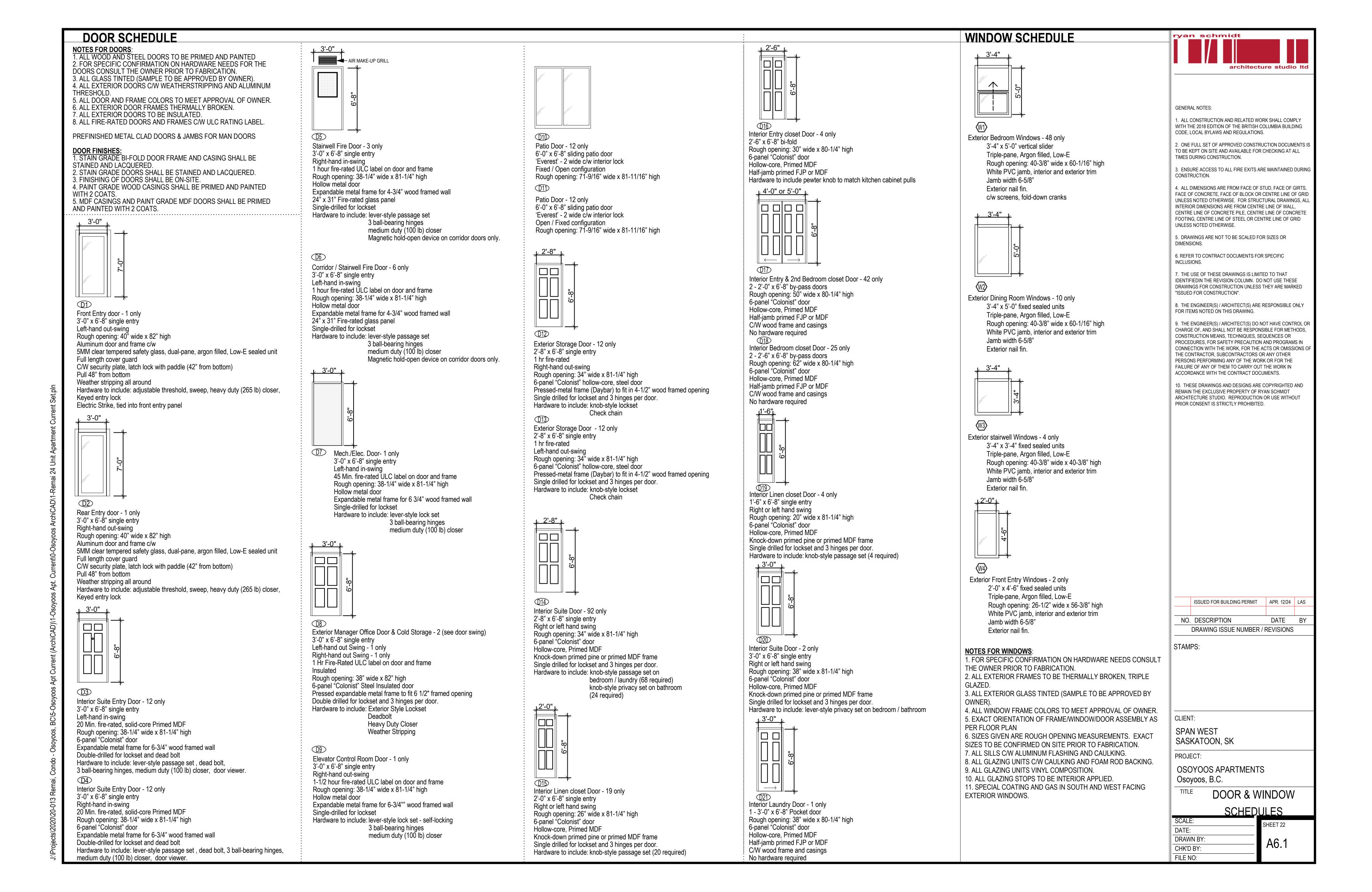






FILE NO:





- Faster and easier flashing installation
- Superior protection against leaks
- Higher quality of work and fewer call backs

Window and door leaks are a major concern for contractors and builders. To prevent water from entering the building, these critical penetration areas must be flashed properly. Corners are the most vulnerable areas of window and door systems and are rarely flashed well, if at all. Grace VYCORner™ offers a superior flashing solution for corners of windows and doors.



VYCORner fits any window/door design and provides superior protection against leaks.

A member of the Vycor® family of flashing products, VYCORner is key component of the Grace flashing system.

VYCORner is easy to install. It saves labor and makes installation quick and easy. No special training is required. Simply follow the installation guidelines below to achieve a fast, high quality installation at no additional labor cost.

Installation Guide ines Installation Before Weather-Resistive Barrier (WRB)



Prepare the rough opening. Remove dust, dirt and loose nails.



Step 5

Install the sill piece of Vycor self-adhered flashing.



Step 2

Step 3

Position and attach VYCORner into place.

Repeat on the other side.

Step 4A-2x4 construction

Install a patch of Grace Vycor®

edge of VYCORner at the rough

opening; extend onto the face of



Make a vertical relief cut on Woor self-adhered flashing and adhere to the rough opening. Repeat on both



Roll firmly into place and press around all edges of VYCORner.



Step 8

Repeat step 7 on both sides. For sill pan options refer to Grace details.



Step 4B-2x6 or 2x8 construction

Repeat on both sides.

Install a patch of Vycor selfadhered flashing as shown in the photo - to extend a minimum 1 inch beyond VYCORner at the sill and jamb of rough opening. Repeat on both sides.



Continue with the jambs and head flashing installation; refer to Grace Contractor's Guide for complete details.

WINDOW INSTALLATION:

USE GRACE VYCORNER AS INDICATED ON ATTACHED DETAILS FOR ALL WINDOW INSTALLATIONS

Installation Guidelines Installation After Weather-Resistive Barrier (WRB)



Step 1

Make approximately 2.5 inch long horizontal cut in the WRB, starting from the corner.



Step 2

Insert VYCORner under the WRB to allow for proper drainage; repeat on both sides of the sill.



Step 3

Mechanically fasten VYCORner.



Step 4A -

2x4 construction Install a piece of Vycor self-adhered flashing over the top edge of VYCORner at the rough opening. Extend over the face of VYCORner (underneath the WRB) a minimum of 1/2 inch. Repeat on both sides.



- For best performance, use VYCORner in conjunction with Grace Vycor® Plus or Grace Vycor® V40 self-adhered flashings.
- For complete details on flashing windows and doors, refer to Grace Contractor's Guide.
- Wrinkles, fish mouths, or other installation defects on Vycor sill flashing should be patched to prevent water from getting underneath.
- RIPCORD™ (Split Release on Demand) can be used to facilitate the sill flashing installation. Refer to Grace Contractor's Guide for details.
- Release paper on the bottom part of Vycor sill flashing should remain on until the WRB is installed to ensure proper shingle overlap.
- · Sill piece of Vycor self-adhered flashing should extend all the way to the end/back edge of sill rough opening



Web Visit our web sites at www.graceconstruction.com and www.graceathome.com.

Vycor is a registered trademark and VYCORner, RIPCORD, and "Flash It Right" are trademarks of W. R. Grace & Co.-Conn. We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright.

Grace Construction Products, W. R. Grace & Co.-Conn. 62 Whittemore Ave., Cambridge, MA 02140 This product may be covered by patents or patents pending.

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Step 4B-

2x6 or 2x8 construction Install a patch of Vycor self-adhered flashing as shown in photo - to extend a minimum 1 inch beyond VYCORner at the sill and jamb of rough opening. Repeat on both sides.



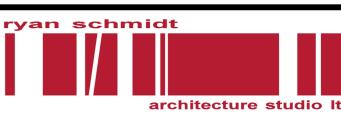
Step 5

Install the sill Vycor flashing. Make vertical relief cuts and adhere to the sill.



Step 6

Continue with the jambs and head flashing installation. Refer to Grace Contractor's Guide for complete details.



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)_	DESCRIPTION	DATE	BY

DRAWING ISSUE NUMBER / REVISIONS

STAMPS:

CLIENT:

SPAN WEST SASKATOON, SK

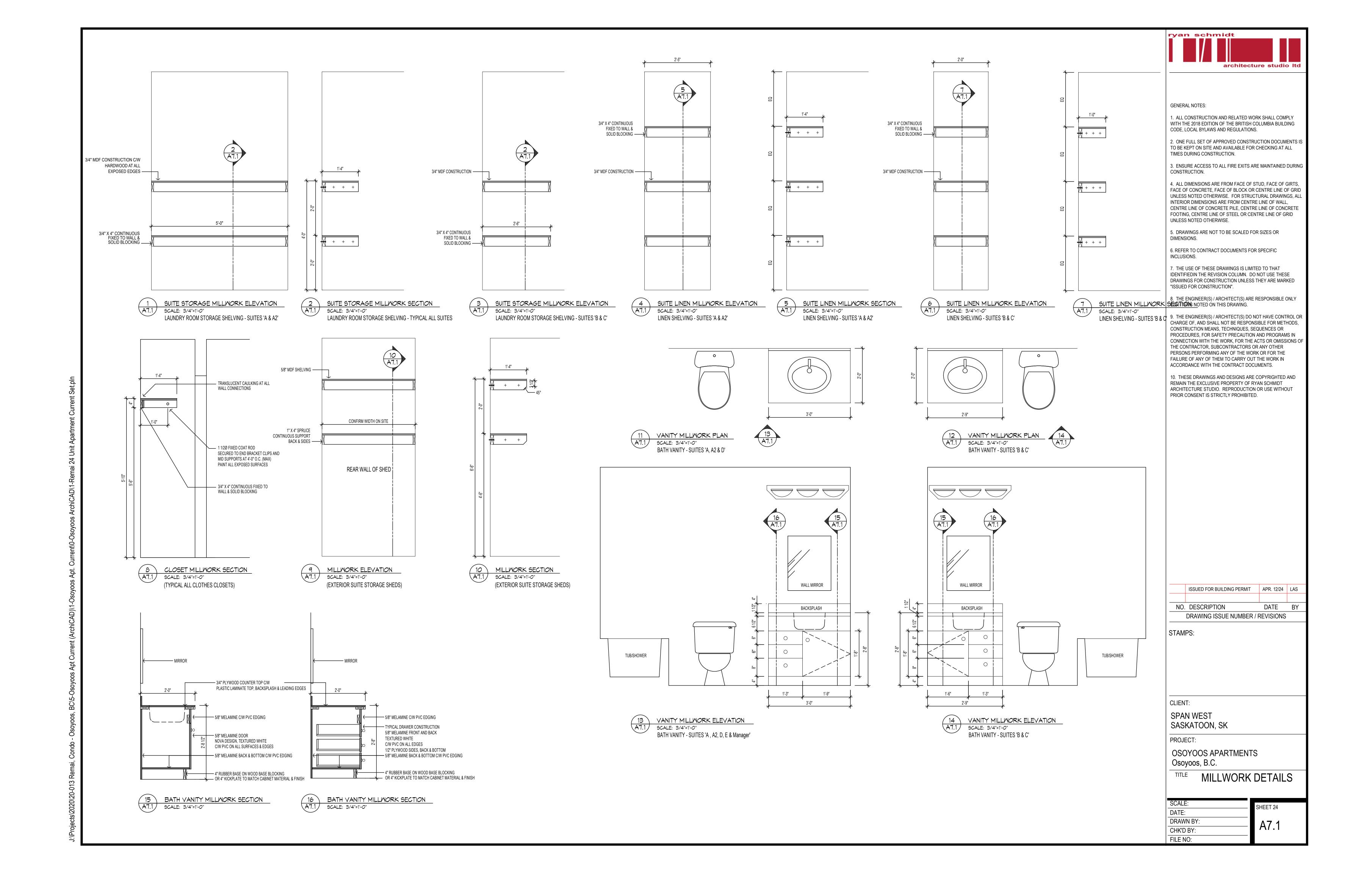
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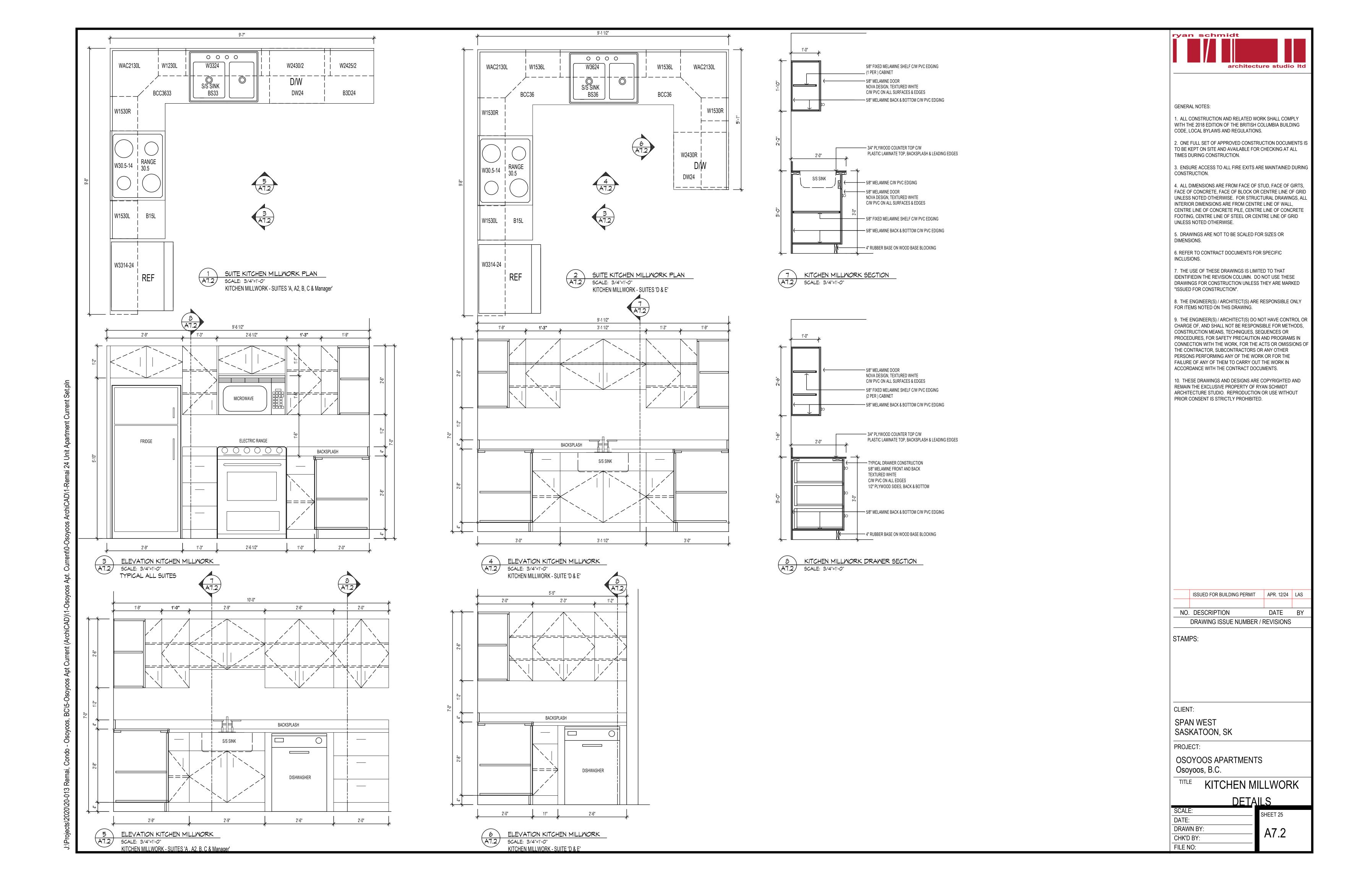
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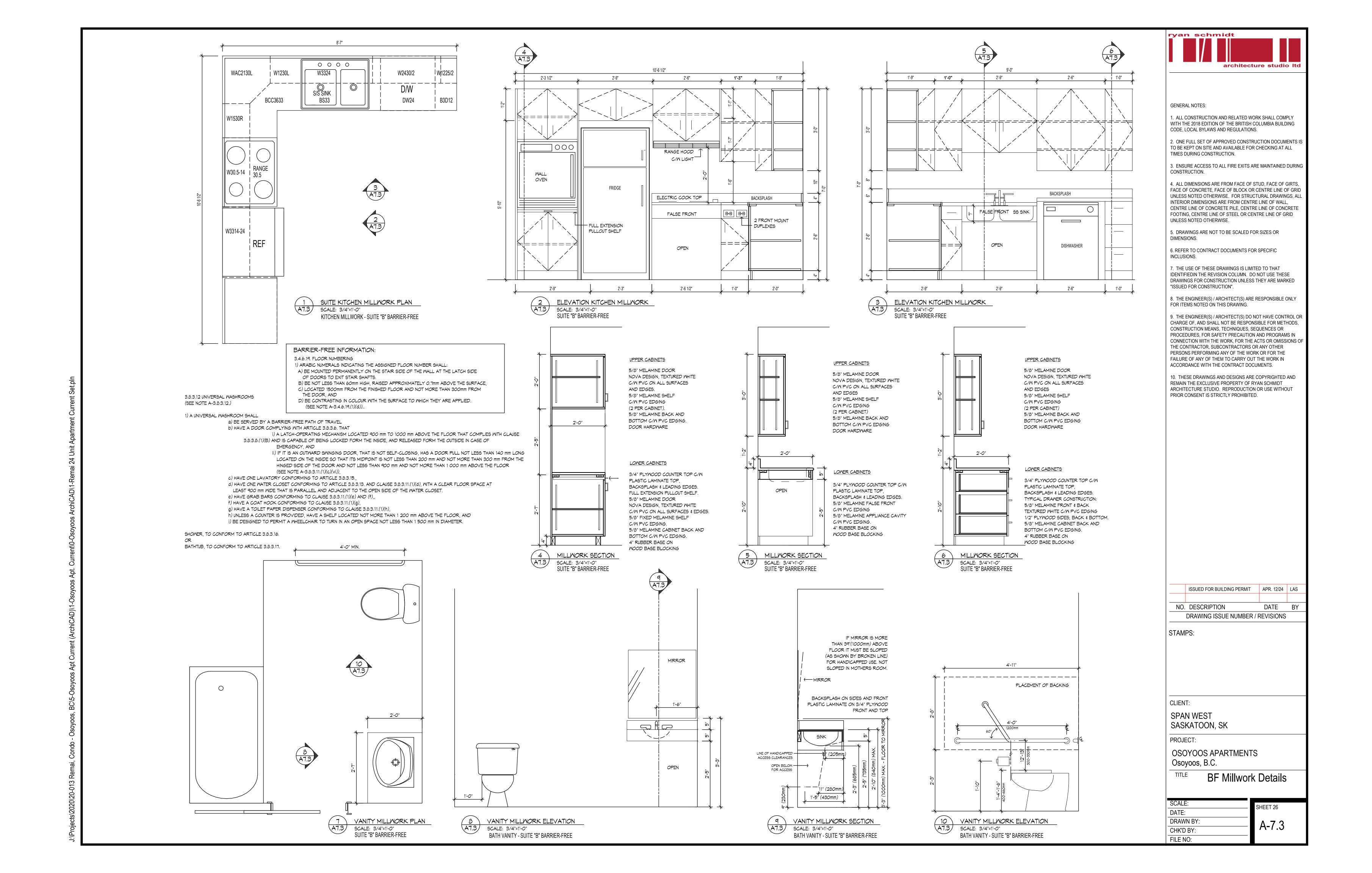
OSOYOOS APARTMENTS Osoyoos, B.C.

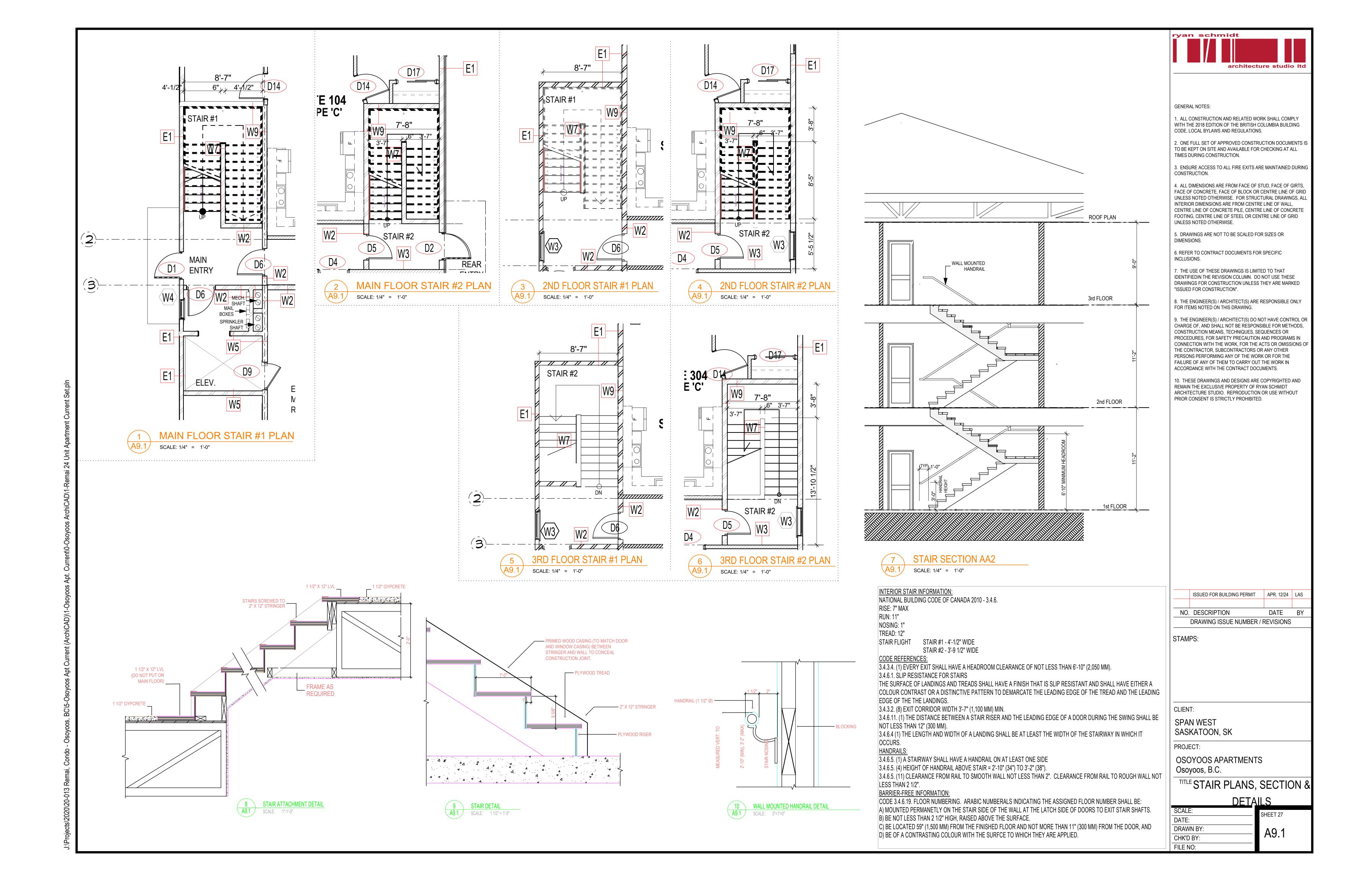
TITLE WINDOW INSTALLATION

PROCEDURES SCALE: SHEET 23 DRAWN BY A6.2 CHK'D BY:









The following items must be performed or provided at no cost to Otis Elevator Company ("Otis") by the Owner or General Contractor or their agents in accordance with governing codes. The price and installation schedule of Otis is based on these jobsite conditions existing at the beginning and during installation of the elevator equipment. Failure to provide the items specified in this list will result in additional work performed by Otis beyond the scope of our contract causing installation delays. A change order will be submitted by Otis for

materials and / or labor expended. All work to be performed per the latest revision of the applicable national code and / or local code.

1. Provide any cutouts to accommodate elevator equipment (troughing, venting, and hall fixtures) along with patching and painting of walls, floors, or partitions together with finish painting of entrance doors and frames, if required. Provide tractor trailer access to the building for unloading of material and an onsite storage area for elevator equipment as follows: dry and enclosed, provides roll-able access to the elevator hoistway at the ground level, located within 100 feet (30.5 meters) of the hoistway, and is larger than 25 x 20 feet (7620 mm X 6096 mm) per elevator. Any warranties provided by Otis for elevator equipment are null and void if equipment is stored in a manner other than a dry enclosed building etructure.

3. Provide sufficient onsite refuse containers for the proper disposal of elevator packaging material. Should sufficient refuse containers not be provided, disposal of packaging material shall become the responsibility of the owner.

Hoistway and Pit Prep / Work 4. Prior to the start of installation, provide a dry, properly framed, enclosed and vented hoistway in accordance with all applicable codes.

5. Provide a clear plumb hoistway with variations from the size shown on the Otis layout not to exceed -0 inch / +1 inch (25 mm). 6. Furnish adequate rail bracket supports and bracket spacing as required by governing code from pit floor to top of hoistway. For steel or wood frame construction, adequate backing for a rail bracket to be installed not less than 10'-3" (3124 mm) or more than 11'-3" (3429 mm) from the top landing. Furnish separator beams where required. Rail bracket attachment supports must be exposed and flush with the clear hoistway line. If the floor to floor height exceeds the maximum bracket spacing allowed by the elevator code, Otis requires some form of steel support to properly attach our guide rail brackets. The maximum allowed bracket spacing is indicated in the rail force and bracket detail table on the Otis layout. Any rail bracket mounting surfaces that are not in line with the finished hoistway dimension (i.e. the clear hoistway line) may need to be extended to meet the required distance. Otis agrees to provide guidance on this matter at the appropriate time.

If rail bracket embedded plates or inserts are provided by Otis, they shall be installed by others in accordance with Otis' documentation and instruction. If vertical tube steel is utilized as rail support, (2) vertical tubes spaced at 20.4" (518 mm) on center are required for car rail brackets with "A" dimension >= 5.76" (146 mm).

9. Furnish a dry pit reinforced to sustain vertical forces on car rails and impact loads on cylinder head(s) and buffer(s). The pit must be dry and clean. The elevator pit must have a floor drain or sump pump to prevent the accumulation of water. Location to be coordinated with Otis to avoid all elevator components and access areas. In areas requiring Firefighter's Emergency Operation, a sump pump / drain shall be provided that shall have the capacity to remove a minimum of 11.4 m³/ h (3,000 gal / h) per elevator (2.2.2.5, ASME A17.1-2007 / CSA B44-07). Otis recommends that the owner verify the system complies with all applicable laws and local codes. 10. Provide and install a fixed vertical iron ladder in each pit as required by governing code and located per Otis layouts, or as coordinated with Otis personnel. Ladder width and projection from wall per local code. If pit depth is greater than 9'-10" (3000 mm) [13'-9" (4191 mm) with no floor below bottom landing], a

As required by the Occupational Safety and Health Administration (OSHA) 1926.502 (B) (1-3), a freestanding removable barricade at each hoistway opening at each floor. Barricades shall be 42" (1067 mm) high, with mid-rail and kick board, and withstand 200 lbs. (90.7 kg) of vertical and horizontal pressure. B.) Protection from Falling Objects:

As required by the Occupational Safety and Health Administration (OSHA) 1926.502(j), hoistway protection from falling debris and other trades

1.) Full entrance screening / mesh in front of all elevator entrances. 2.) Secured / controlled access to all elevator lobbies (lock and key) with posted Notice "Only Elevator Personnel Beyond This Protection".

- Items A.) and B.) can be integrated systems. - Hoistway barricades and screening shall be constructed, maintained, and removed by others.

12. One front entrance wall, at the main landing, is not to be constructed until after all elevator material is located in the hoistway. Remaining front entrance walls are not to be constructed until after door frames and sills are in place. If front walls are poured concrete weight bearing walls, rough openings are to be provided to accept entrance frames and filled in after frames are set. Rough opening sizes per Otis layouts. Prior to the elevator(s) being turned over, all entrance walls must be installed and rough openings filled in complete to maintain fire rated hoistway requirements. 13. Provide adequate support at all fastening points of each entrance. Provide plumb vertical surfaces for entrances and sill supports, one above the other, and square with the hoistway. For 4'-0" (1219 mm) and 4'-6" (1372 mm) two speed door arrangements, an additional hoistway attachment point is required for an auxiliary support bracket under the sill assembly in the center of the clear door opening. Finish floor and grout, if required, between door frames to sill line. A horizontal support is to be provided 1 foot (305 mm) above the clear opening at the top landing to support the door frame assembly. If floor heights exceed 12'-0" (3558 mm), a horizontal support is to be provided 1 foot (305 mm) above the clear opening. If transoms are required, the support would be 1

14. Provide and install a steel safety beam per elevator, from side wall to side wall at the top of the hoistway, capable of withstanding a maximum net live load of 5000 lb. (2268 kg). Otis requires 2" (51 mm) clear above the beam. Beam must be removed before car is placed in operation if it infringes on required

15. Glass used in hoistway construction must block 98% or more of incident full spectrum ultraviolet radiation for the full height of the hoistway. 16. If an emergency door in a blind hoistway is required, provide an outward swinging single section type door with door closer and a self closing barrier per ASME A17.1-2007, section 2.11.1.2. Contact your local Otis personnel for a detailed drawing (AAA26900D_FMI), showing Otis specific requirements.

17. When a machine room is used, provide a suitable dry machine room with access and ventilation in accordance with all applicable codes and regulations. The machine room is to be maintained at a temperature between 60°F (15.5°C) and 100°F (38°C). When a machine space is used, the machine space will be in the hoistway behind the metal door installed per Hoistway and Pit Prep / Work above with ventilation in accordance with all applicable codes and regulations. The machine space is to be maintained at a temperature between 32°F (0°C) and 104°F (40°C). Relative humidity not to exceed 95% non-condensing. Local codes may require tighter temperature ranges. The temperature and humidity range shall be permanently posted in the machine room / space. Please check with your local code authority for the exact requirements in your area.

18. Machine room / space(s) and door to meet code compliant fire resistive construction. When a machine room is used, provide a self closing and self locking door with a group 2 locking device. When a machine space is used, provide a standard 3' x 7' self closing and self locking metal door with a group 2 locking device in the hoistway per agreed upon location and Otis layout. In addition, ensure that all air gaps around the machine room / space door are sealed (i.e. threshold, weather stripping, etc.). Self closing mechanism cannot protrude into the machine space at any time.

19. [Refers to elevators with remote machine rooms requiring buried piping and wire way] Provide trenching and backfilling as necessary to

Fire Prevention Prep / Work

SEE NOTE 14 _ (REF:-PWBO)

☐ DETAIL A

SECTIONAL ELEVATION

FOR MAX. SPACING BETWEEN INSERTS SEE RAIL FORCE DETAIL

20. Provide hoistway walls designed and constructed in accordance with the required fire rating (including those places where elevator fixture boxes and rail bracket fastenings penetrate into the hoistway walls). 21. In the United States, provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s) designated by Otis.

a. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing. b. For each group of elevators, provide a normally closed contact representing all smoke detectors located in lobbies, hoistways, or machine rooms / spaces, but not the smoke detector at the designated return landing (see above) or the smoke detectors as described in i. and ii. below:

 If a smoke detector is located in the hoistway at or below the lower of the two recall landings, it shall be wired to activate the same normally closed contact as the smoke detector located in the lobby at the lower of the two recall landings. ii. If machine rooms / spaces are located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing.

c. Requirements for intermittently illuminating the fire hat visual signal in the car operating panel, either i. or ii. apply. i. For a single unit or for a group of elevators having one common machine room / space and one common hoistway, provide one additional normally closed contact representing the machine room / space and hoistway smoke detectors. ii. If the group contains more than one hoistway and hoistway smoke detectors are installed, or if the group has more than one machine room / space, provide one normally closed contact for each elevator. The contact is to represent the smoke detector in the machine room / space for that particular elevator, and any smoke detectors in the hoistway containing that particular elevator. 22. In Canada, provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s) designated return landing. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing and, if provided, from the sensing device in the pit.

b. For each group of elevators, provide a normally closed contact representing all smoke detectors located in elevator lobbies, but <u>not</u> the smoke detector at the designated return landing (see above) and, if provided, from the sensing device in the top of the hoistway.

c. For each group of elevators, provide a normally closed contact representing the smoke detector in the elevator machine room / space(s). d. If the machine room / space is located at the designated return landings, the smoke detectors located therein shall be wired to activately.

d. If the machine room / space is located at the designated landings. When a machine room is used, for each group of elevators, provide in addition to the above, a normally closed contact representing the sensing devices in the machine room and, if provided, in the pit or at the top of the hoistway (for the Fire Hat in the Elevator).

23. In the United States, if sprinklers are installed in the hoistway or machine room / space(s), a means to automatically disconnect the mainline power supply to the affected elevator and any other power supplies used to move the elevator, upon or prior to the application of water is required (unless prohibited by local code). Smoke detectors shall not be used to activate sprinklers in hoistways or machine rooms / spaces or to disconnect the mainline power supply.

24. Provide a Class "ABC" fire extinguisher, minimum 10 lbs., in the machine room or in a location convenient to the machine space.

Electrical Requirements

25. All 125 volt, 15 or 20 ampere single phase receptacles installed in pits, machinery spaces, and elevator car tops shall be of ground fault circuit interrupter (GCFI) type. All 125 volt, 15 or 20 ampere single phase receptacles installed in machine rooms / spaces shall have GFCI protection. A dedicated single phase receptacle supplying a permanently installed pit sump pump shall not require GFCI protection. (NEC 620-85 or CEC Rule 38-085). 26. Furnish a dedicated, balanced, 3 phase, 3 wire electrical feeder system with a separate solidly grounded equipment grounding conductor terminating in the machine room / space. Size of the feeders and grounding conductor to suit elevator power characteristics. Feeder conductors and grounding conductor must be copper. A fused disconnect switch or circuit breaker capable of being locked in the open position for each elevator per the National Electrical Code ((ANSI/NFPA 70) or Canadian Electrical Code (C2.1) with feeder or branch wiring to the controller (NEC 620-51, 620-61(D), and 620-62 or CEC Rule 38-013(2)(a)) must be provided. Fuses are to be current limiting class RK1 or equivalent. Circuit breakers are to have current limiting characteristics quivalent to class RK1 fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current as listed in the Otis Confirmation

Furnish a separate 120 volt, 15 ampere single phase branch circuit and SPST fused disconnect switch or circuit breaker capable of being locked in the open position to supply the car lights, receptacles, auxiliary lighting power source, and ventilation on each car in compliance with the National Electrical Code must be provided. When a machine room is used and where practical, disconnects shall be located adjacent to the door of the machine room enclosure. When a machine space is used, disconnects or circuit breakers shall be located behind the door of the machine space per Otis layout. Branch circuit wiring to each controller (NEC 620-53 or CEC Rule 38-053) must be provided.

A convenience outlet and a suitable light of not less than 200 Lux (19FC) as measured at floor level must be provided in the machine room / space with a light switch located within 18" (456 mm) of lock jamb side of machine room door when a machine room is used, or outside the machine space door on the lock jamb side per Otis layout when a machine space is used (NEC 620-23 or CEC Rule 38-023). A convenience outlet and light fixture of not less than 100 Lux (10FC) as measured at the pit floor level must be in the pit with a light switch located adjacent to the pit access door (NEC 620-24 or CEC Rule 38-024). The light bulb(s) shall be externally guarded to prevent contact and accidental breakage. [Note: Consult with the Otis Construction Superintendent at your location concerning the following paragraph.]

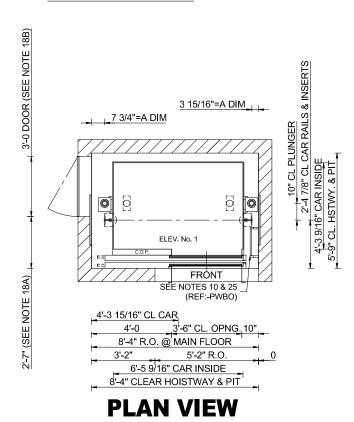
To meet the date upon which the elevators are to be turned over, the permanent 3 phase feeder system and protective devices must be installed and power 27. Provide 120 volt, 20 ampere power for light, tools, hoist, etc. to the hoistway during installation. Source must be within 75 feet (22.86 M) of the hoistway. 28. Provide one (1) dedicated outside telephone line per elevator car to the elevator machine room / space(s), and terminated at the controller designated by the Otis construction superintendent. Reference the A17.1 code and the Otis Confirmation of Power Supply for specific requirements. 29. [Optional for Elevators with an intra building Intercom] Provide a separate 120 volt, 15 ampere, single phase power supply with fused SPST disconnect switch or circuit breaker located as required for intercommunicating system power supply. Circuit to be arranged for feeding from the building emergency lighting supply if provided. Conduit and wiring for remotely located intercommunicating stations must be provided. 30. [Optional for Elevators with a Battery Powered Emergency Return Unit (ERU)] Provide the disconnecting means required by the National Electrical Code (NEC) or Canadian Electrical Code (CEC) with an auxiliary contact and wiring to the controller. The auxiliary contact is to be positively open when the main disconnecting means is open. The auxiliary contact shall cause the ERU power source to be disconnected from its load when the disconnecting means is in the open position. Size of main contacts to suit elevator power characteristics.

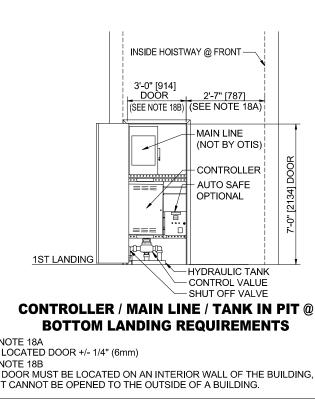
In the United States, heat sensors used to automatically disconnect the mainline power supply prior to the application of water from sprinklers shall be provided with a normally closed contact with wiring from the sensing device to a controller designated by Otis. The normally closed contact shall be closed when the heat sensor is not activated and shall be open when the heat sensor is activated. 31. [Optional for Installations with Emergency (Standby) Power] Provide the emergency (standby) power unit and means for starting it, and deliver to the elevator via disconnect switches in the machine room / space, sufficient power to operate one or more elevators at a time at full rated speed and rated load.

An automatic Power Transfer Switch is required for each power feeder to monitor both Normal and Emergency (Standby) Power conditions and to perform the transfer from one to the other. Switch to have two sets of normally closed dry contacts, one to be open when the switch is in the Emergency (Standby) Power position, the other to open upon initiation of power transfer and to close when transfer is complete. Switch to have an inhibit function which will delay transfer to Normal and / or Emergency (Standby) Power by an adjustable period of 0 - 300 seconds. Switch shall have a Phase Monitor feature, which prohibits the transfer of power between "live" sources unless the sources are in phase with each other. If a Shunt Trip device is provided, an additional Normally Closed contact is required from the Emergency (Standby) Power source. Emergency (standby) power system shall be connected to the 125 volt power circuit as noted in A.3 of the Confirmation of Power Supply for the branch circuit supplying the car lights, car top receptacle, auxiliary car lighting power source and car ventilate

You agree to indemnify and save Otis harmless against any and all liability and costs arising out of your failure to carry out any of the foregoing requirements.







LOCATED DOOR +/- 1/4" (6mm) NOTE 18B DOOR MUST BE LOCATED ON AN INTERIOR WALL OF THE BUILDING, T CANNOT BE OPENED TO THE OUTSIDE OF A BUILDING. APPROVAL
THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED HydroFit 2510 MODEL HydroFit PASSENGER 2500# @ 100 F.P.M. SEISMIC 0/1 Otis
A United Technologies Company DWG. NO.: **HYD 2500** BUILDING Tamarack 3 stop Hydro fit Right Hand LOCATION Saskatchewan

CONT. WITH Tamarack Ventures

OWNER

CONTRACT NO.

ARCHT.

ryan schmidt

GENERAL NOTES:

1. ALL CONSTRUCTION AND RELATED WORK SHALL COMPLY WITH THE 2018 EDITION OF THE BRITISH COLUMBIA BUILDING CODE, LOCAL BYLAWS AND REGULATIONS.

2. ONE FULL SET OF APPROVED CONSTRUCTION DOCUMENTS IS TO BE KEPT ON SITE AND AVAILABLE FOR CHECKING AT ALL TIMES DURING CONSTRUCTION.

3. ENSURE ACCESS TO ALL FIRE EXITS ARE MAINTAINED DURING CONSTRUCTION.

4. ALL DIMENSIONS ARE FROM FACE OF STUD, FACE OF GIRTS, FACE OF CONCRETE, FACE OF BLOCK OR CENTRE LINE OF GRID UNLESS NOTED OTHERWISE. FOR STRUCTURAL DRAWINGS, ALL INTERIOR DIMENSIONS ARE FROM CENTRE LINE OF WALL, CENTRE LINE OF CONCRETE PILE, CENTRE LINE OF CONCRETE FOOTING, CENTRE LINE OF STEEL OR CENTRE LINE OF GRID UNLESS NOTED OTHERWISE.

5. DRAWINGS ARE NOT TO BE SCALED FOR SIZES OR DIMENSIONS.

6. REFER TO CONTRACT DOCUMENTS FOR SPECIFIC INCLUSIONS.

7. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIEDIN THE REVISION COLUMN. DO NOT USE THESE DRAWINGS FOR CONSTRUCTION UNLESS THEY ARE MARKED "ISSUED FOR CONSTRUCTION".

8. THE ENGINEER(S) / ARCHITECT(S) ARE RESPONSIBLE ONLY FOR ITEMS NOTED ON THIS DRAWING.

9. THE ENGINEER(S) / ARCHITECT(S) DO NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR METHODS, CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTION AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

10. THESE DRAWINGS AND DESIGNS ARE COPYRIGHTED AND REMAIN THE EXCLUSIVE PROPERTY OF RYAN SCHMIDT ARCHITECTURE STUDIO. REPRODUCTION OR USE WITHOUT PRIOR CONSENT IS STRICTLY PROHIBITED.

ISSUED FOR BUILDING PERMIT APR. 12/24 LAS NO. DESCRIPTION DATE BY DRAWING ISSUE NUMBER / REVISIONS

STAMPS:

CLIENT: SPAN WEST SASKATOON, SK

PROJECT:

OSOYOOS APARTMENTS Osoyoos, B.C.

ELEVATOR DETAILS

SHEET 28 DRAWN BY CHK'D BY: FILE NO:

RAIL FORCE DETAIL

*THIS FORCE INCLÙDEŚ IMPACT SEE NOTES FORCE IN (6 & 9)

EACH BUFFER IMPACT LOAD

EACH CYLINDER IMPACT LOAD CAR MAXIMUM BRACKET SPACING

NOTE - DO NOT SCALE THIS DRAWING

ELEV. No. 1

HALL FIXTURE DETAIL FINISHEL FLOOR

-SILL ASSEMBLY

DETAIL "A"

SILL SUPPORT

GROUT STOP

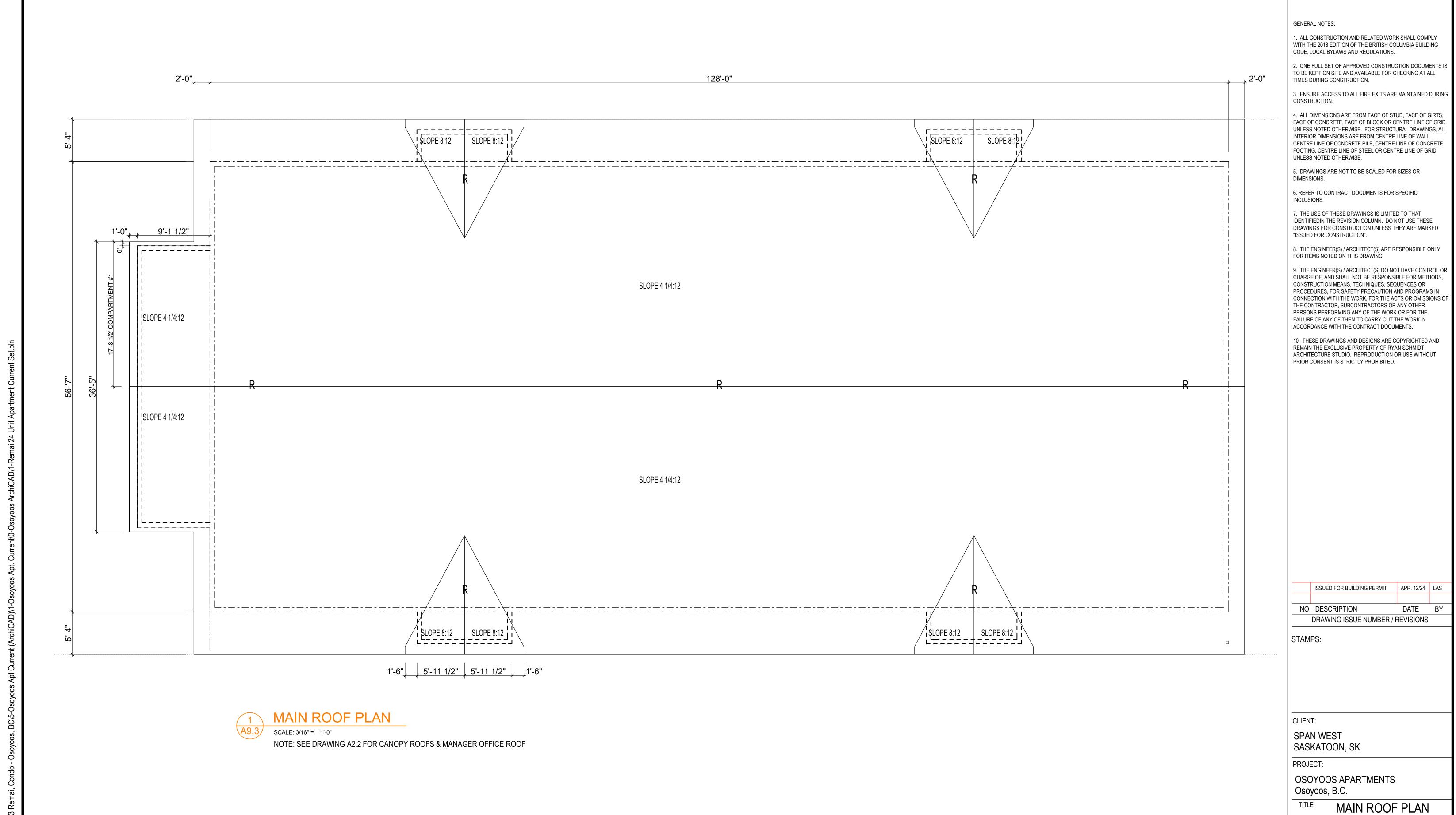
FRONT WALL LINE

1 HALL BUTTONS @ ALL FLOORS

ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. MUST WITHSTAND A HORIZONTAL PULL-OL FORCE OF 140 LBS. @ EA. FASTENING POINT (8 @ EA. ENTRANCE) INCLUDING SUPPORT FOR CENTER SILL SUPPORT BRACKET (NOT BY OTIS).

NOTE - DO NOT SCALE THIS DRAWING REFER TO DWG'S. NO.

DIRECTIONAL ARROW



ryan schmidt

SHEET 29 DRAWN BY CHK'D BY: FILE NO: