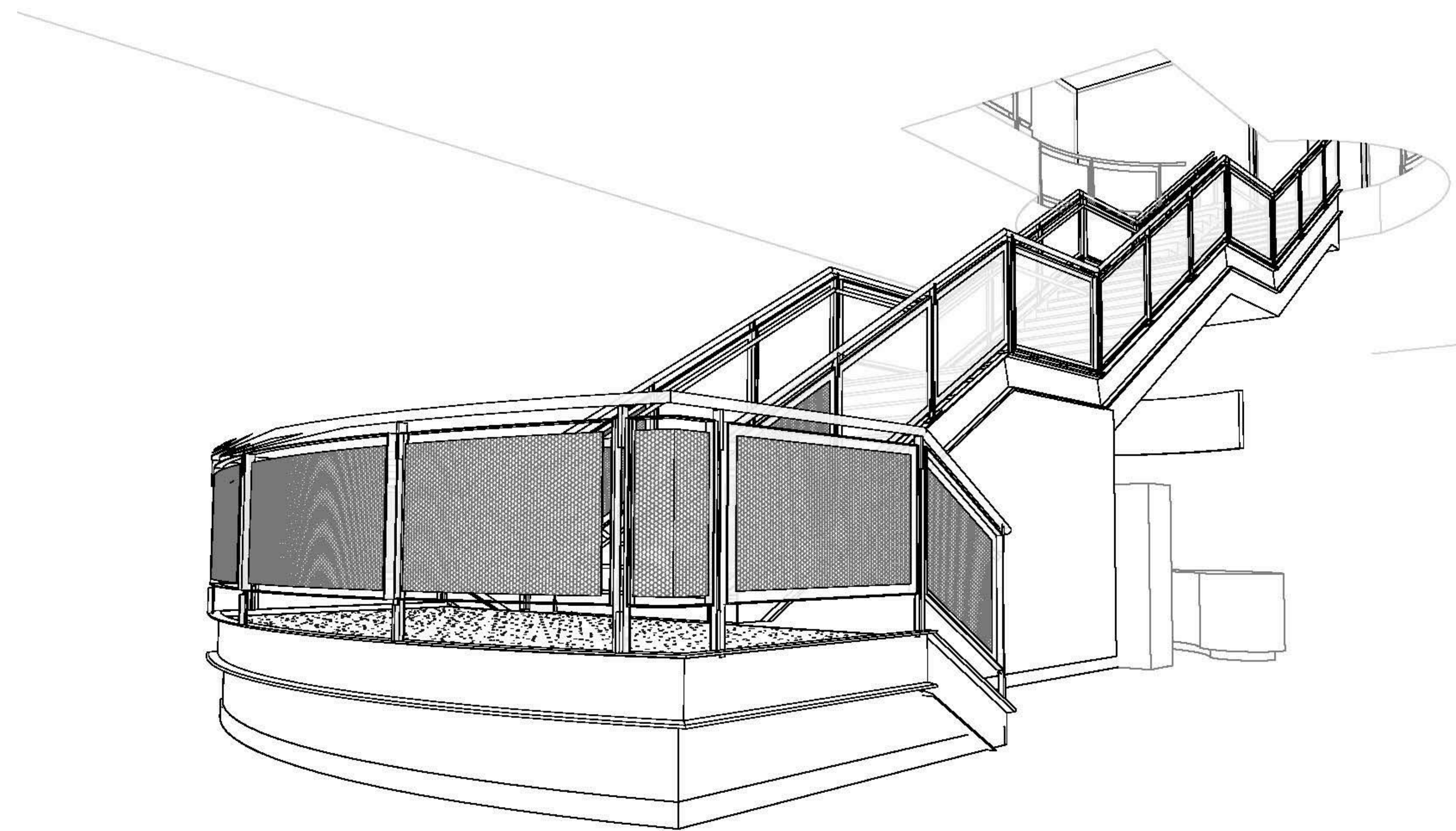


CANADIAN MUSEUM OF IMMIGRATION AT PIER 21



PROJECT: ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

ISSUED FOR TENDER



ARCHITECTURAL SHEETS

- A-301 EXISTING / DEMO LEVEL 1 AND 2 FLOOR PLANS
- A-302 EXISTING / DEMO ESCALATOR SECTION
- A-303 HOARDING AND TEMPORARY LAYOUT PLANS
- A-304 LEVEL 1 AND 2 FLOOR PLANS
- A-305 ENLARGED STAIR AND STORAGE ROOM PLAN
- A-306 STAIR ELEVATIONS
- A-307 STAIR ELEVATIONS
- A-308 STAIR SECTIONS
- A-309 STAIR SECTIONS
- A-310 STAIR DETAILS
- A-311 ROOM FINISH AND DOOR SCHEDULE

STRUCTURAL SHEETS

- S-401 PARTIAL FRAMING PLANS , DETAILS & NOTES

ELECTRICAL SHEETS

- E-801 PARTIAL FLOOR PLANS ELECTRICAL

MECHANICAL SHEETS

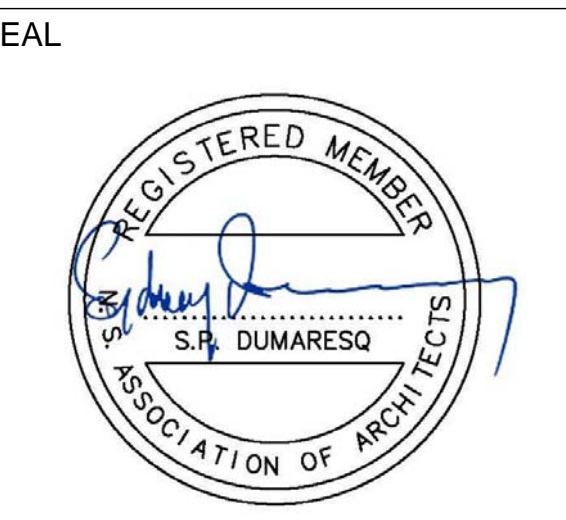
- SPEC-100 MECHANICAL SPECIFICATIONS
- M-751 PARTIAL FLOOR PLANS MECHANICAL
- FP901 PARTIAL HOARDING FLOOR PLANS - SPRINKLER
- FP902 PARTIAL FLOOR PLAN - SPRINKLER



GENERAL NOTES
 THIS DRAWING IS THE PROPERTY OF SP DUMARESQ ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.
 THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.
 DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.
 READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER

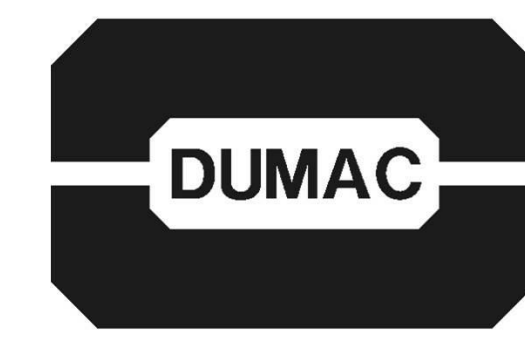


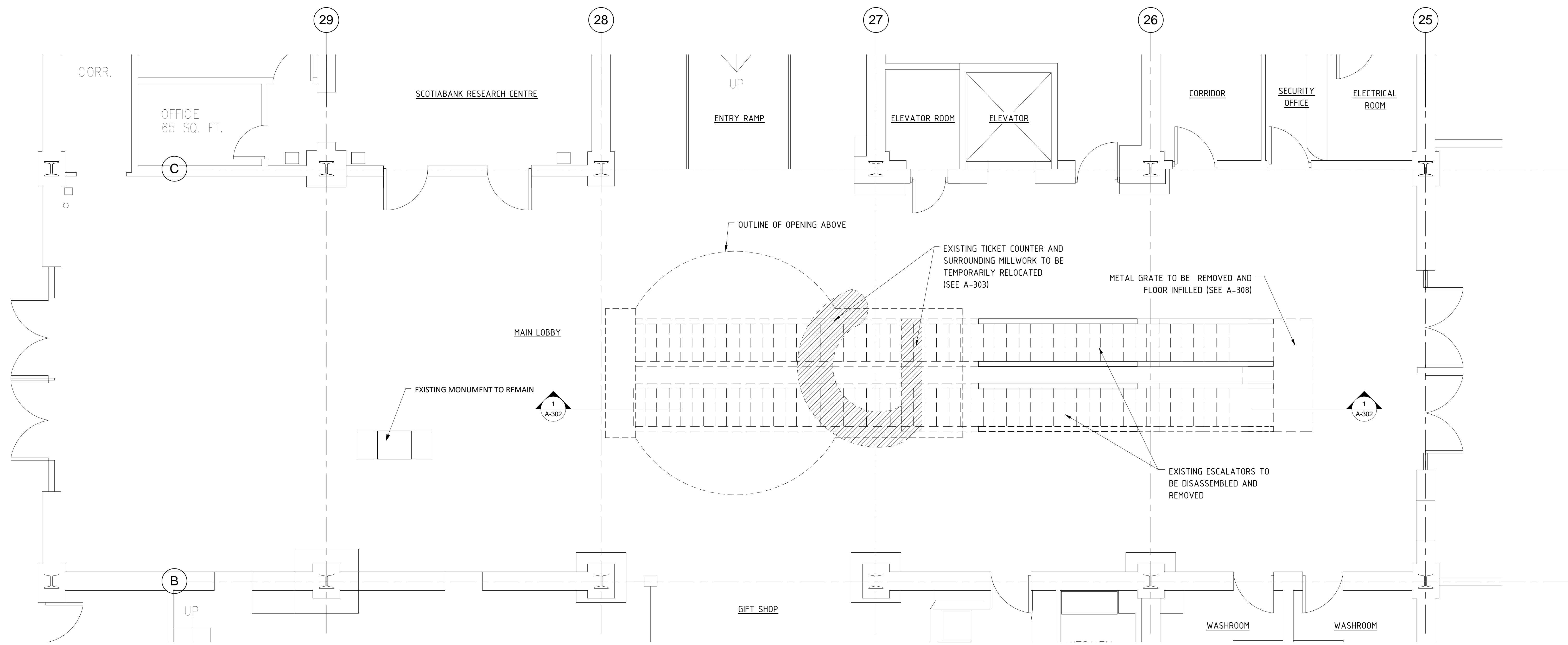
SCALE
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME
 ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

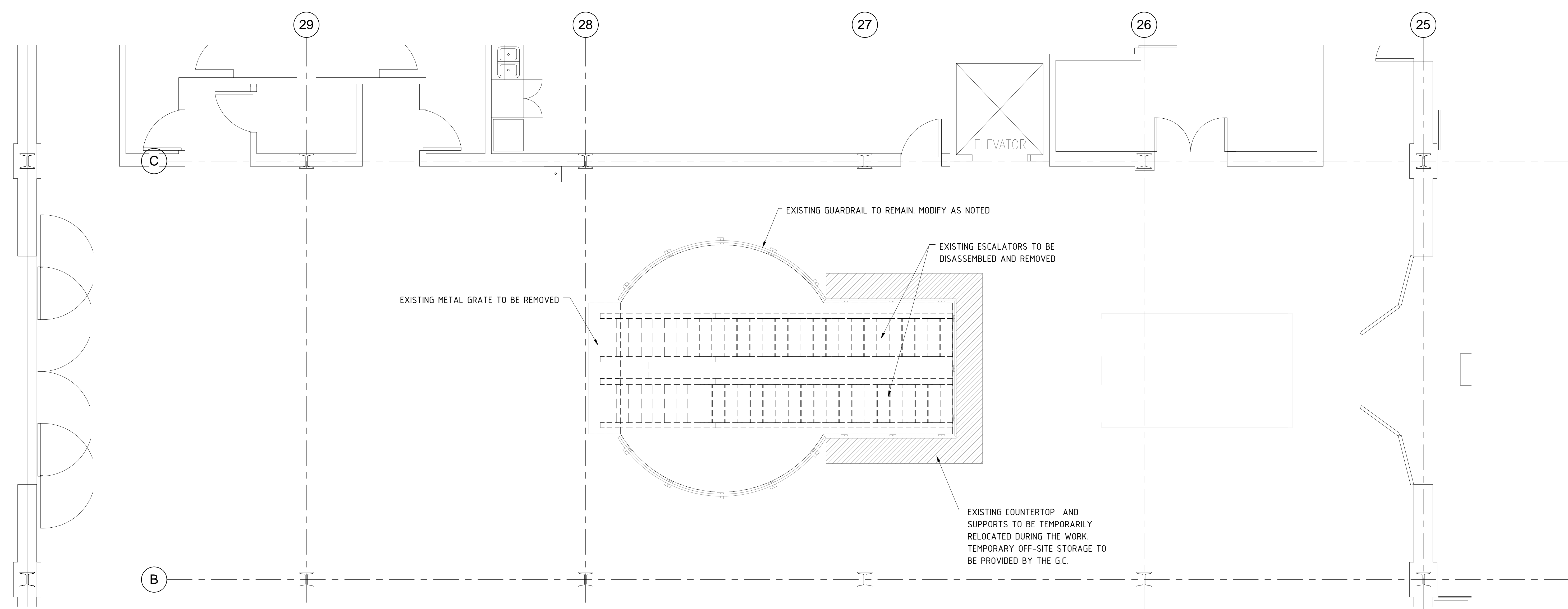
COVER SHEET

A-000





1 EXISTING / DEMO LEVEL 1 FLOOR PLAN
 1/4" = 1'-0"



2 EXISTING / DEMO LEVEL 2 FLOOR PLAN
 1/4" = 1'-0"

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESCO ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

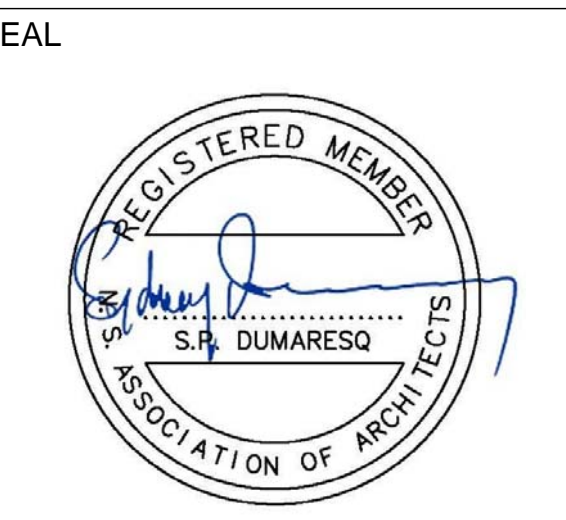
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER



SCALE 1/4" = 1'-0"
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

EXISTING / DEMO LEVEL 1 AND 2 FLOOR PLANS

A-301

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESO ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

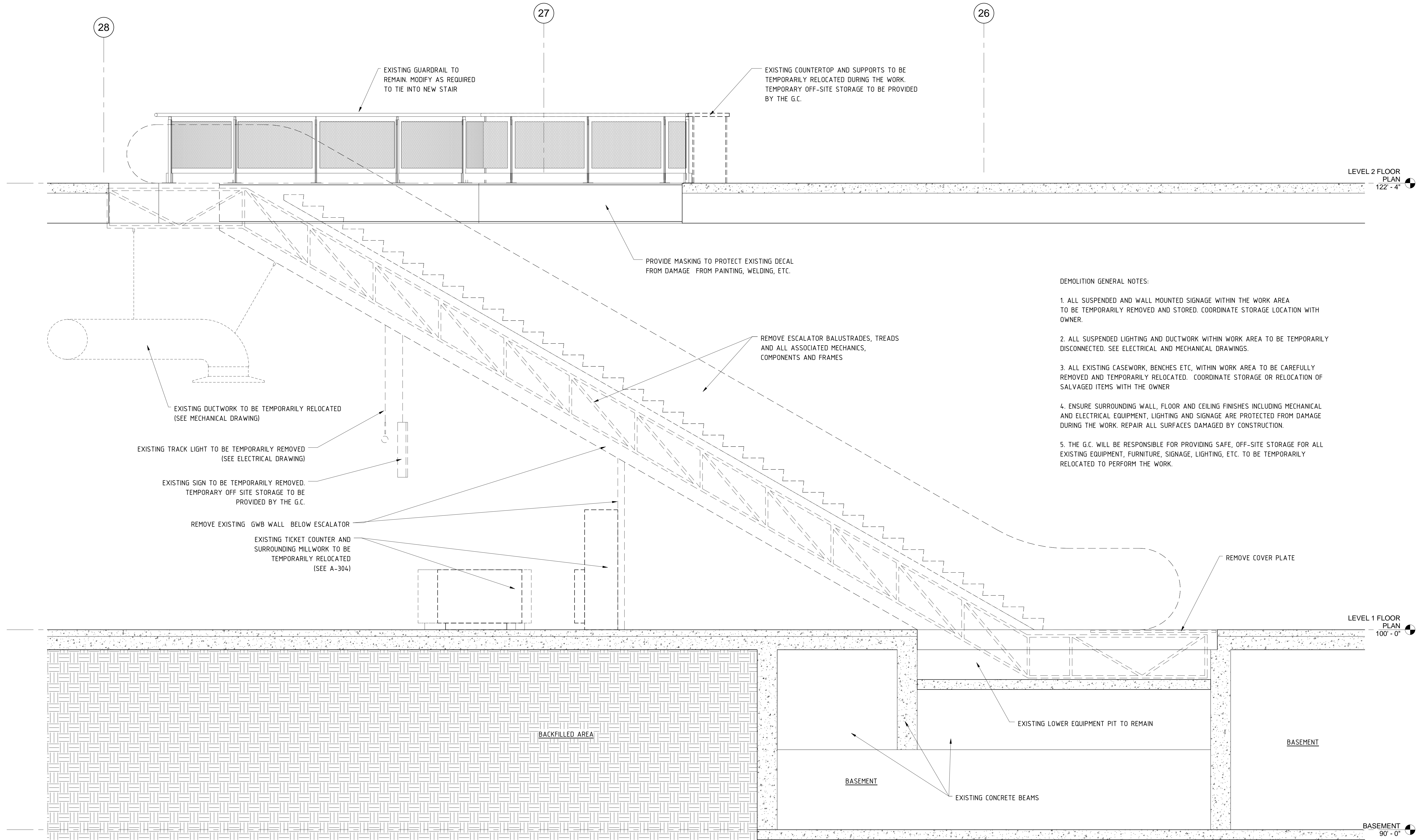
READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

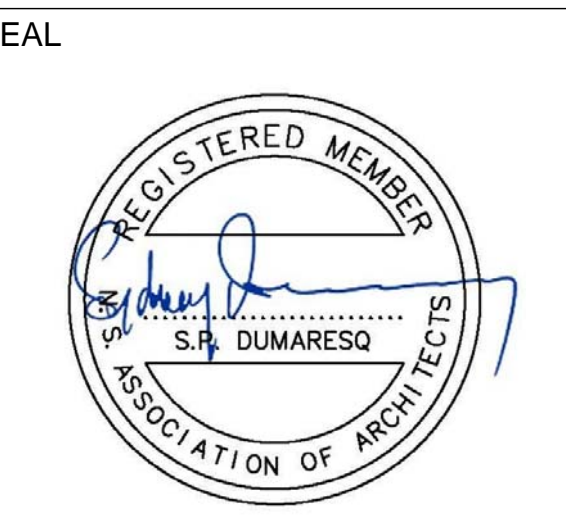
DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER



- DEMOLITION GENERAL NOTES:**
1. ALL SUSPENDED AND WALL MOUNTED SIGNAGE WITHIN THE WORK AREA TO BE TEMPORARILY REMOVED AND STORED. COORDINATE STORAGE LOCATION WITH OWNER.
 2. ALL SUSPENDED LIGHTING AND DUCTWORK WITHIN WORK AREA TO BE TEMPORARILY DISCONNECTED. SEE ELECTRICAL AND MECHANICAL DRAWINGS.
 3. ALL EXISTING CASEWORK, BENCHES ETC. WITHIN WORK AREA TO BE CAREFULLY REMOVED AND TEMPORARILY RELOCATED. COORDINATE STORAGE OR RELOCATION OF SALVAGED ITEMS WITH THE OWNER.
 4. ENSURE SURROUNDING WALL, FLOOR AND CEILING FINISHES INCLUDING MECHANICAL AND ELECTRICAL EQUIPMENT, LIGHTING AND SIGNAGE ARE PROTECTED FROM DAMAGE DURING THE WORK. REPAIR ALL SURFACES DAMAGED BY CONSTRUCTION.
 5. THE G.C. WILL BE RESPONSIBLE FOR PROVIDING SAFE, OFF-SITE STORAGE FOR ALL EXISTING EQUIPMENT, FURNITURE, SIGNAGE, LIGHTING, ETC. TO BE TEMPORARILY RELOCATED TO PERFORM THE WORK.



1 EXISTING / DEMO ESCALATOR SECTION
 1/2" = 1'-0"



SCALE As indicated
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME
ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

EXISTING / DEMO ESCALATOR SECTION

A-302

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESGO ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

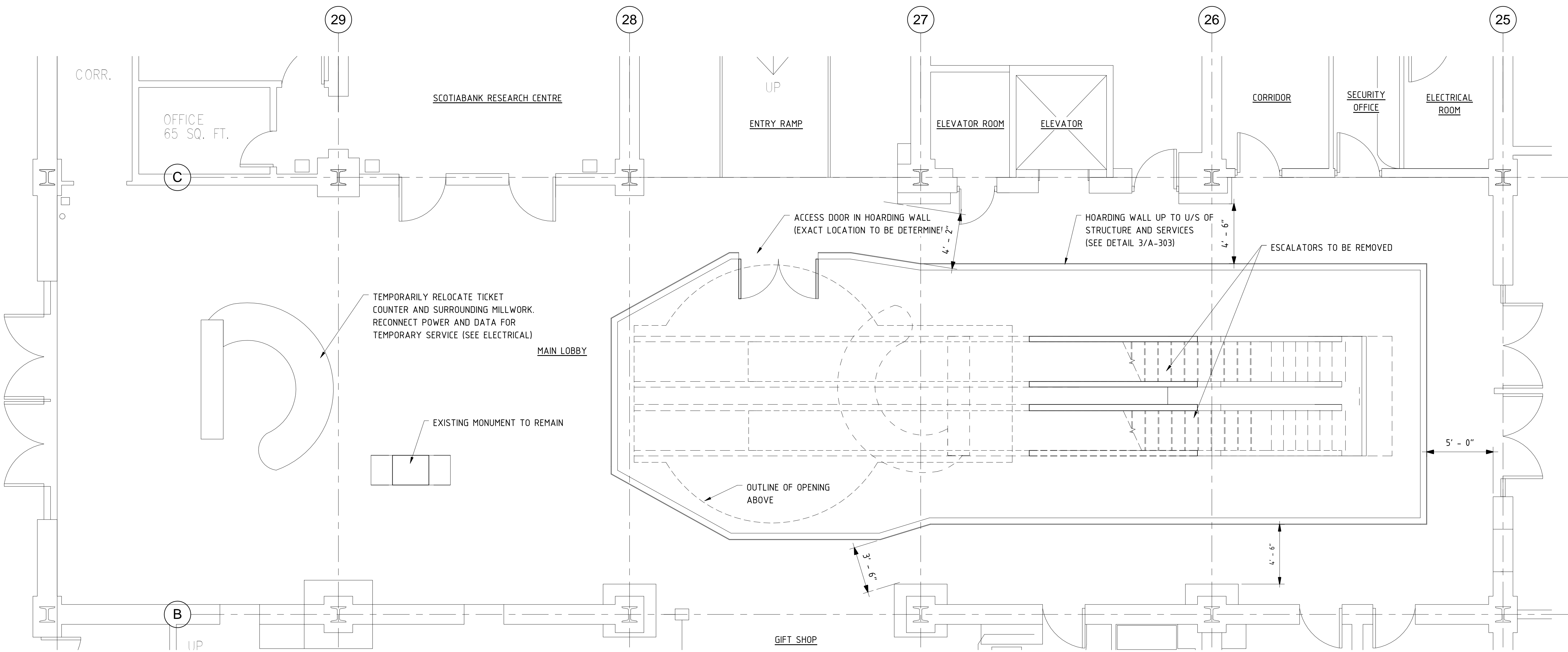
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

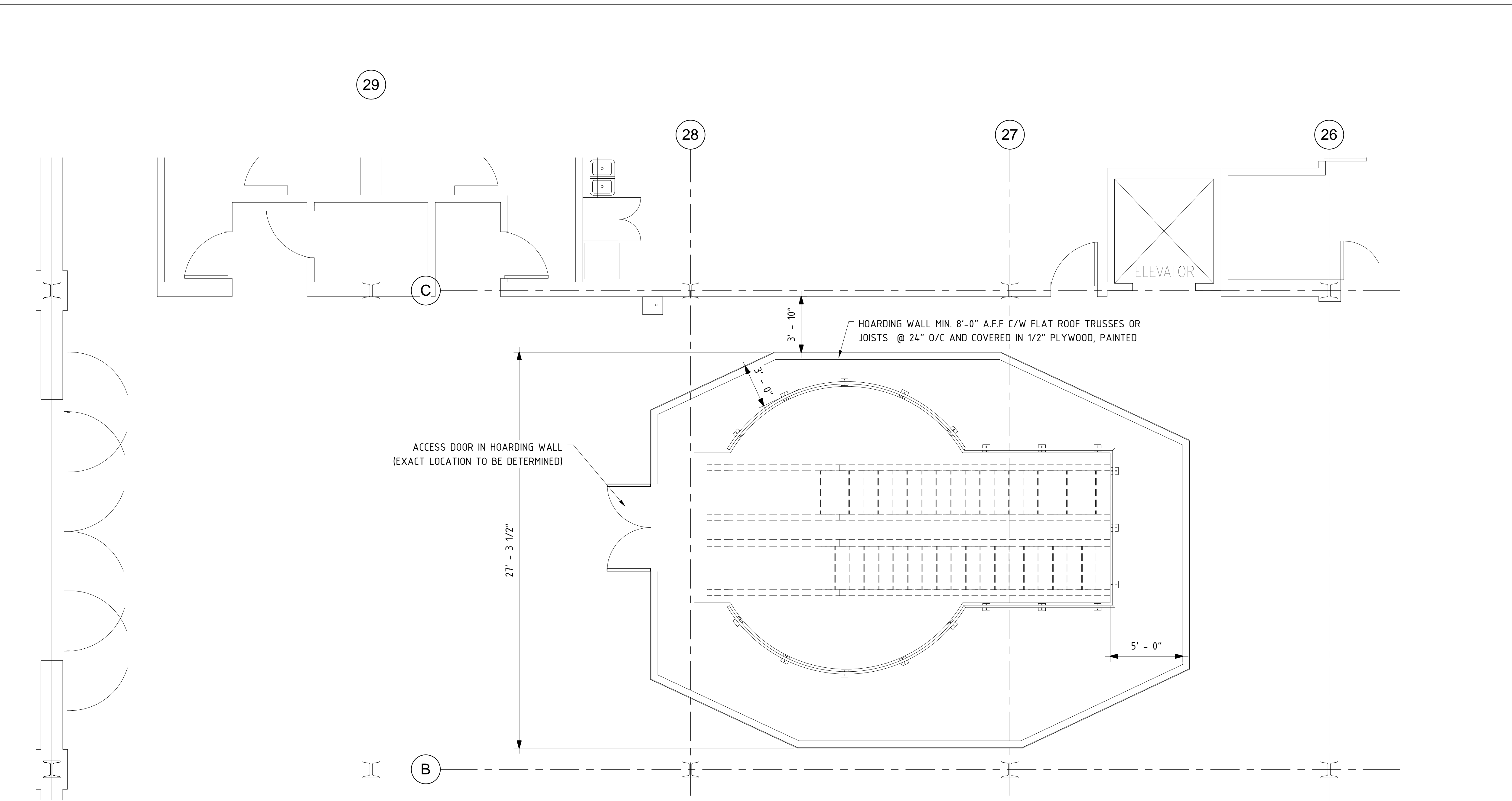
If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER

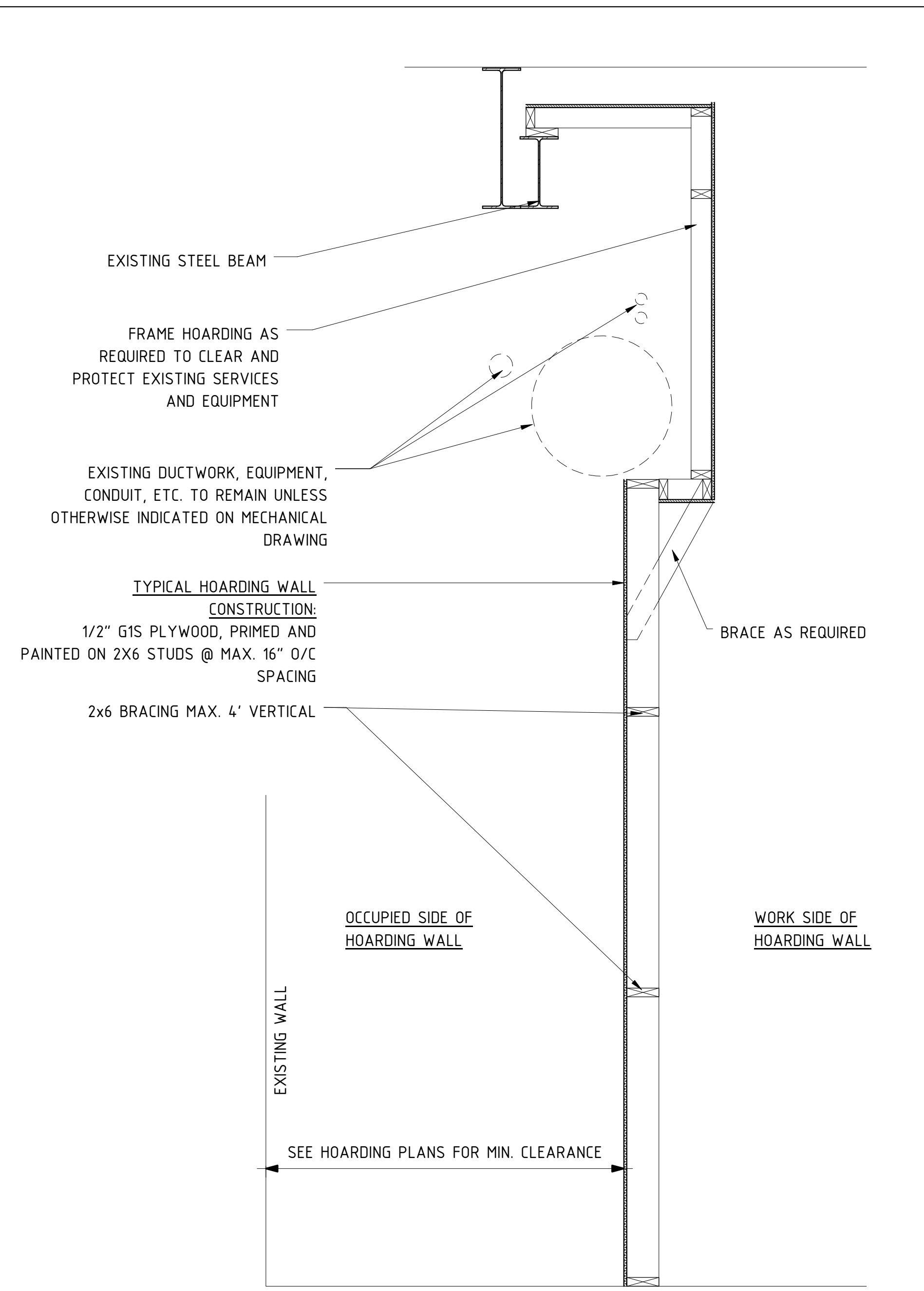


- NOTES:
1. NEW HOARDING ACCESS DOORS TO BE SOLID CORE WOOD, PAINTED WHITE, C/W WOOD FRAME & TRIM PAINTED WHITE. RECONDITIONED DOORS IN GOOD SHAPE ARE ACCEPTABLE.
 2. SURFACE OF HOARDING WALL EXPOSED TO PUBLIC VIEW TO BE GOOD ONE SIDE PLYWOOD, PRIMED PLUS 2 COATS SATIN FINISH WHITE PAINT.
 3. ALL GAPS AND OPENINGS IN HOARDING TO BE SEALED TO PREVENT PASSAGE OF DUST AND DEBRIS INTO OCCUPIED SPACES.

1 HOARDING PLAN LEVEL 1
 1/4" = 1'-0"



2 HOARDING PLAN LEVEL 2
 1/4" = 1'-0"



4 HOARDING WALL TYPICAL SECTION
 3/4" = 1'-0"

SEAL



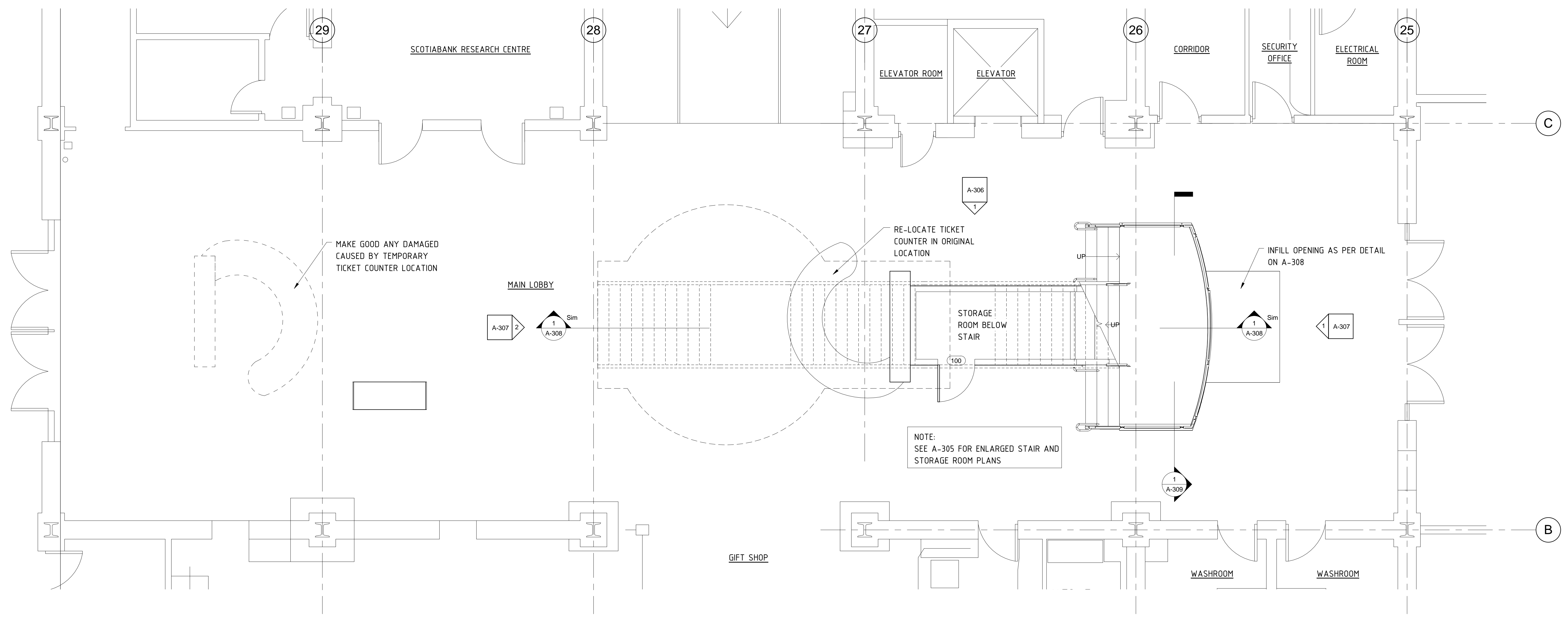
SCALE	As indicated
DRAWN BY	JC
CHECKED BY	SPD
DATE	NOVEMBER 9, 2015

PROJECT NAME

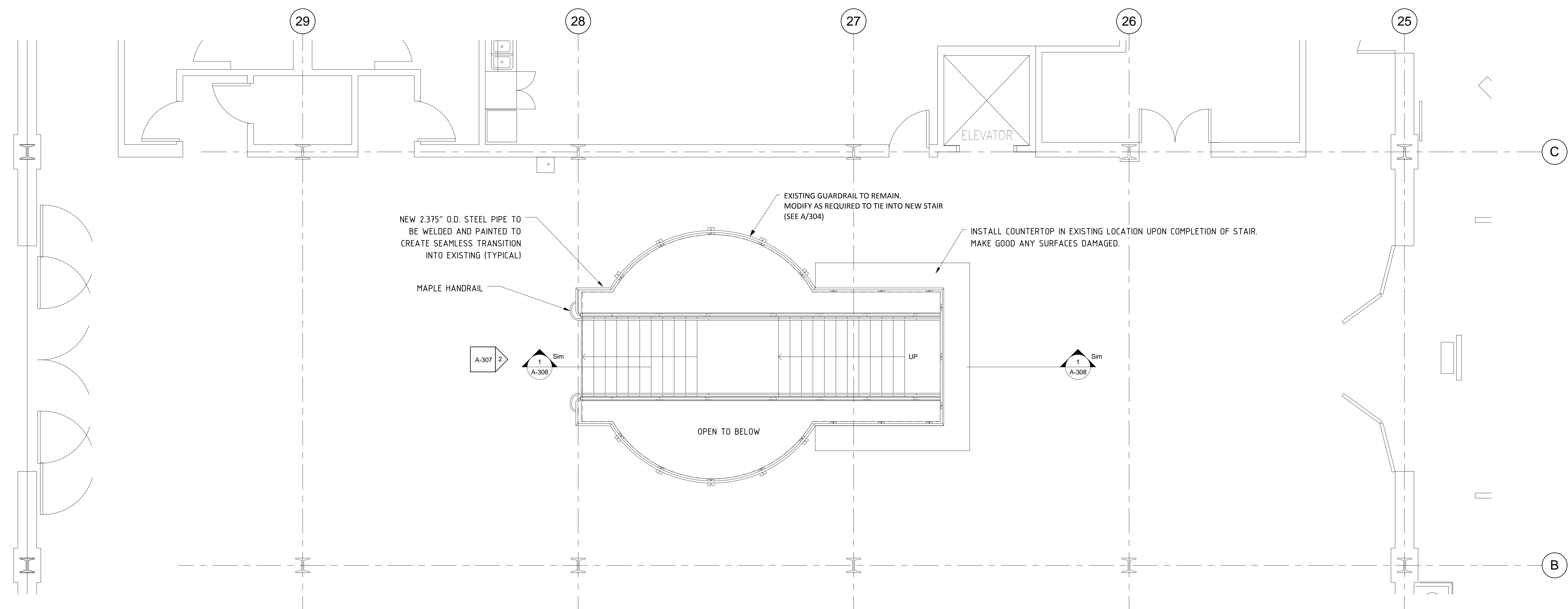
ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

HOARDING AND TEMPORARY LAYOUT PLANS

A-303



1 LEVEL 1 FLOOR PLAN
 1/4" = 1'-0"



2 LEVEL 2 FLOOR PLAN
 1/4" = 1'-0"

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESGO ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

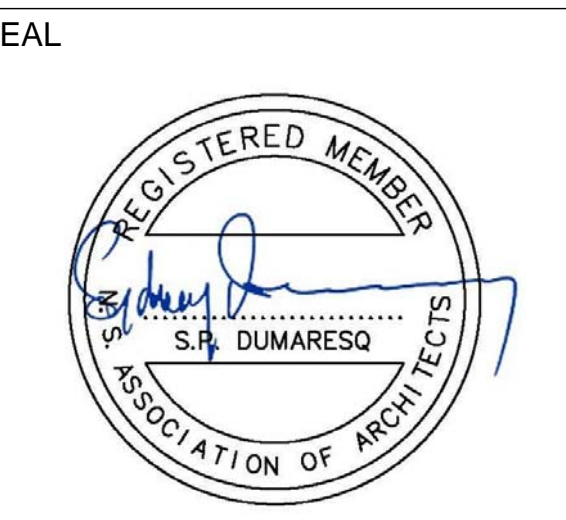
If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER



NOTES:

1. MAKE GOOD ANY SURFACES DAMAGED BY CONSTRUCTION AS A RESULT OF THE WORK.



SCALE 1/4" = 1'-0"
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

LEVEL 1 AND 2 FLOOR PLANS

A-304

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESGO ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

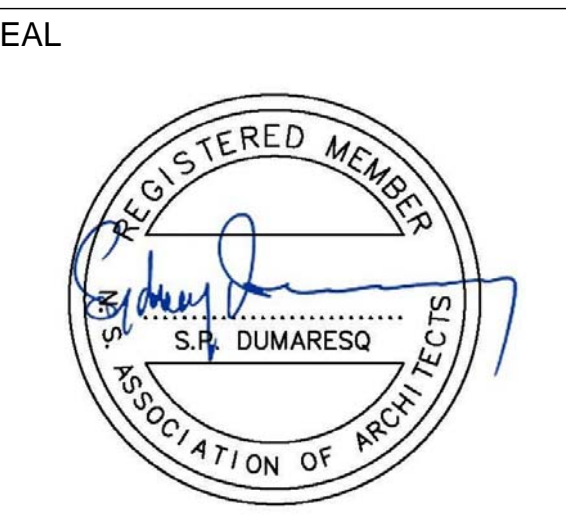
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER



SCALE 1/2" = 1'-0"

DRAWN BY JC

CHECKED BY SPD

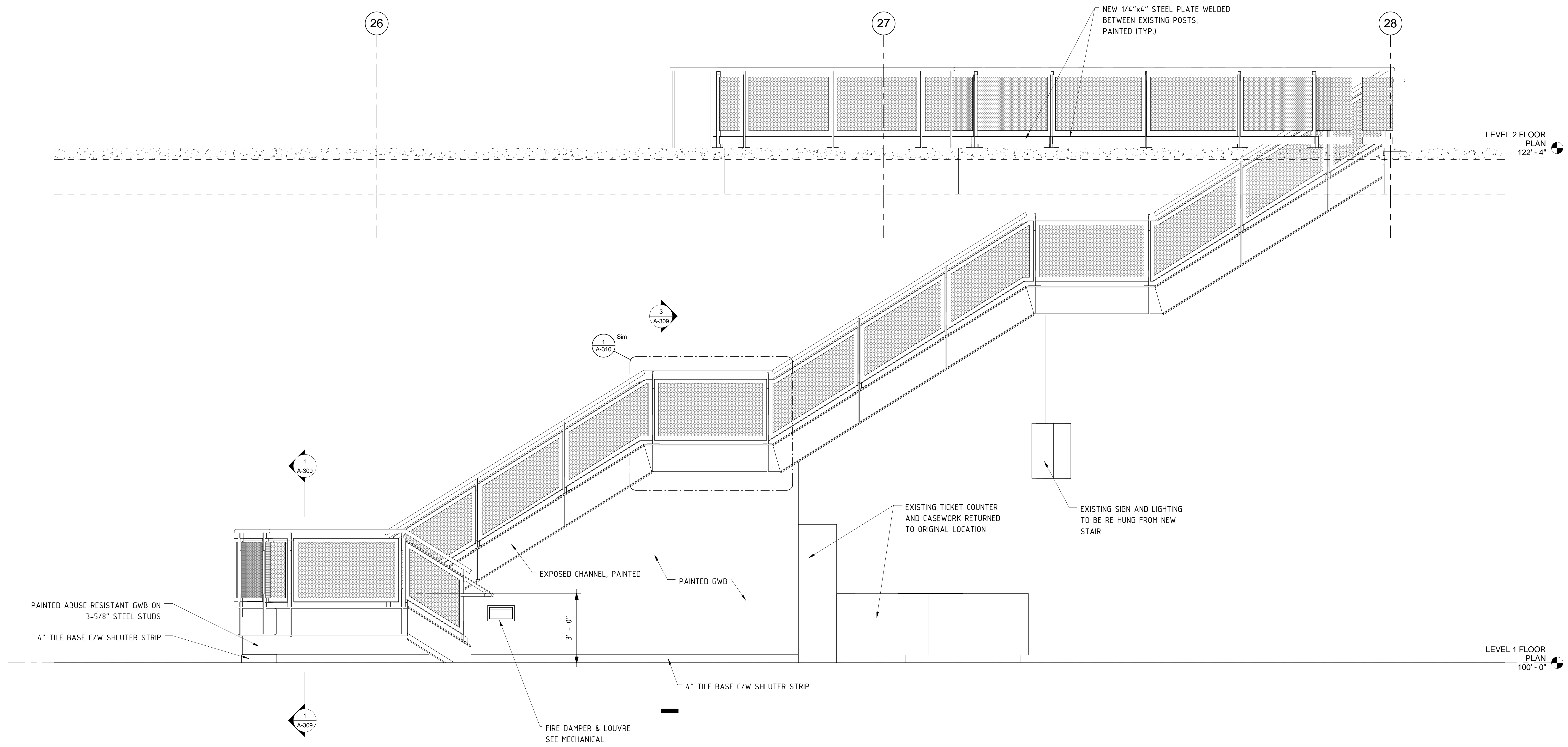
DATE NOVEMBER 9, 2015

PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

STAIR ELEVATIONS

A-306



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

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESQ ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

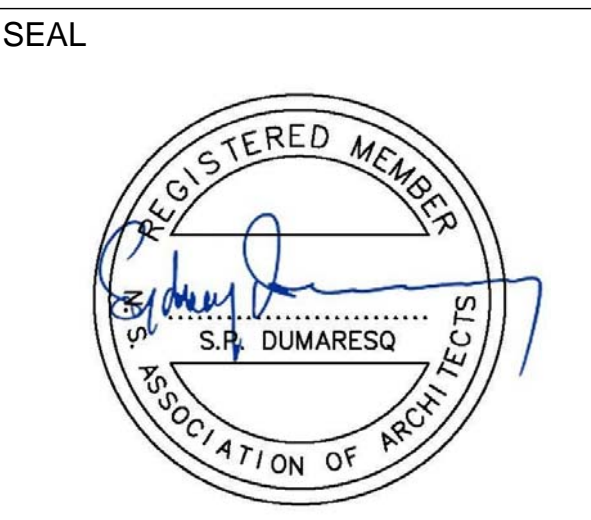
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9/15	1	ISSUED FOR TENDER



SCALE 1/2" = 1'-0"
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

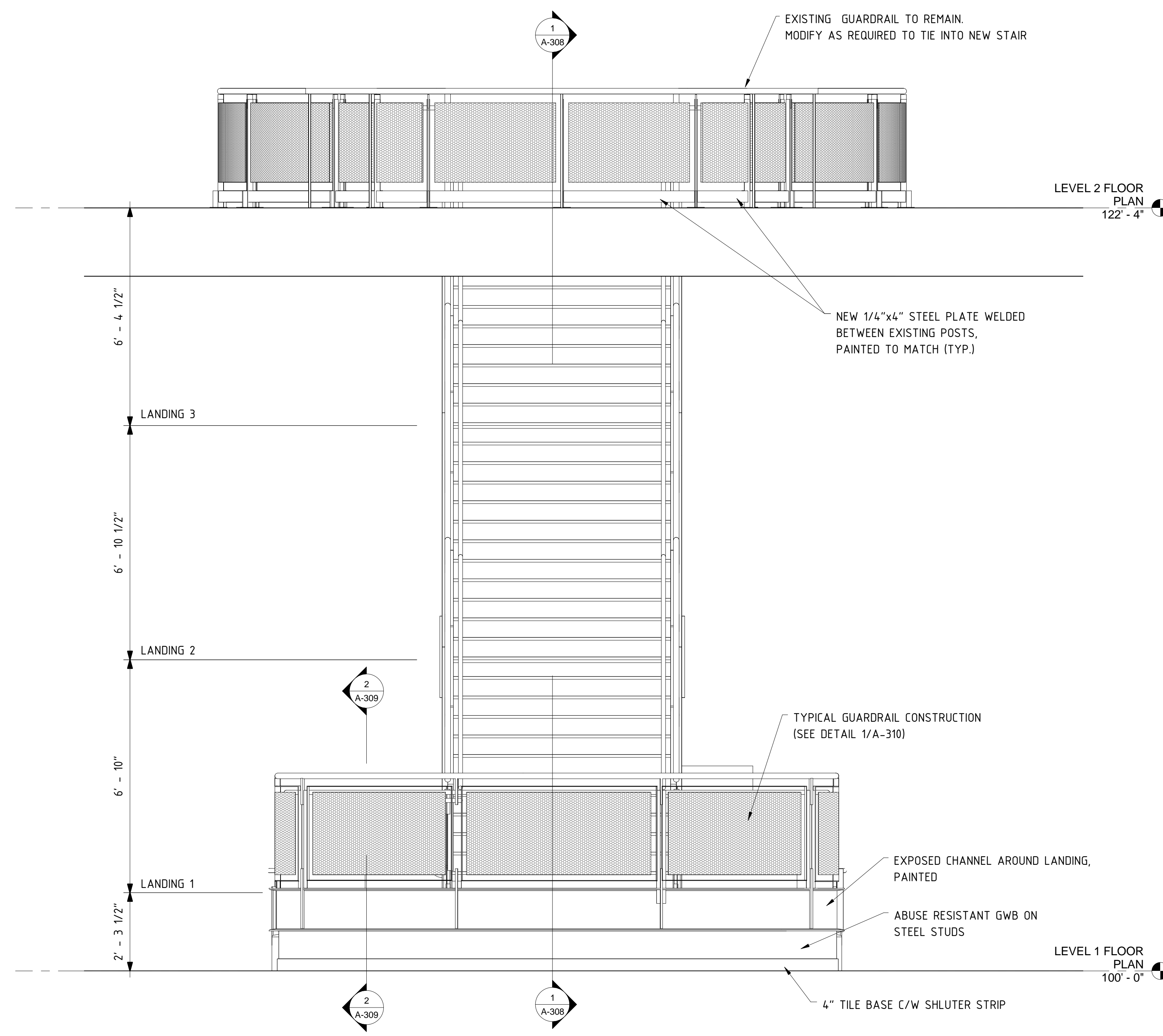
PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

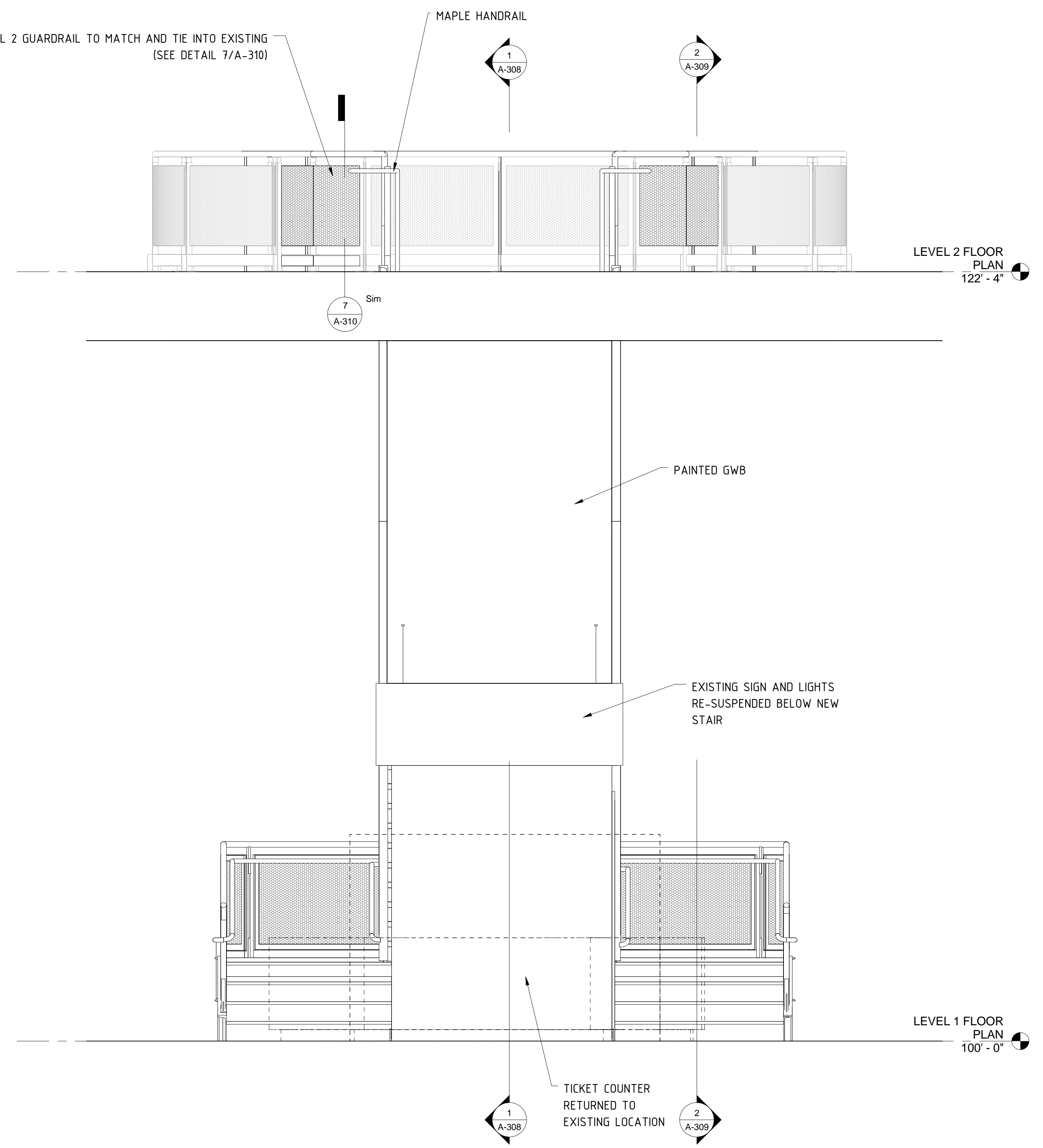
STAIR ELEVATIONS

A-307

- NOTE:**
1. ALL NEW AND EXISTING EXPOSED STEEL GUARDRAILS, CHANNELS, ETC., TO RECEIVE PAINT AS PER SPEC SECTION 09 91 10
 2. PROVIDE ADEQUATE MASKING AND PROTECTION FROM OVERSPRAY TO EXISTING SURFACES AND NEW SURFACES NOT TO RECEIVE PAINT.



1 EAST STAIR ELEVATION
 1/2" = 1'-0"



2 WEST STAIR ELEVATION
 1/2" = 1'-0"

LEVEL 2 FLOOR PLAN
 122' - 4"

LEVEL 2 FLOOR PLAN
 122' - 4"

LEVEL 1 FLOOR PLAN
 100' - 0"

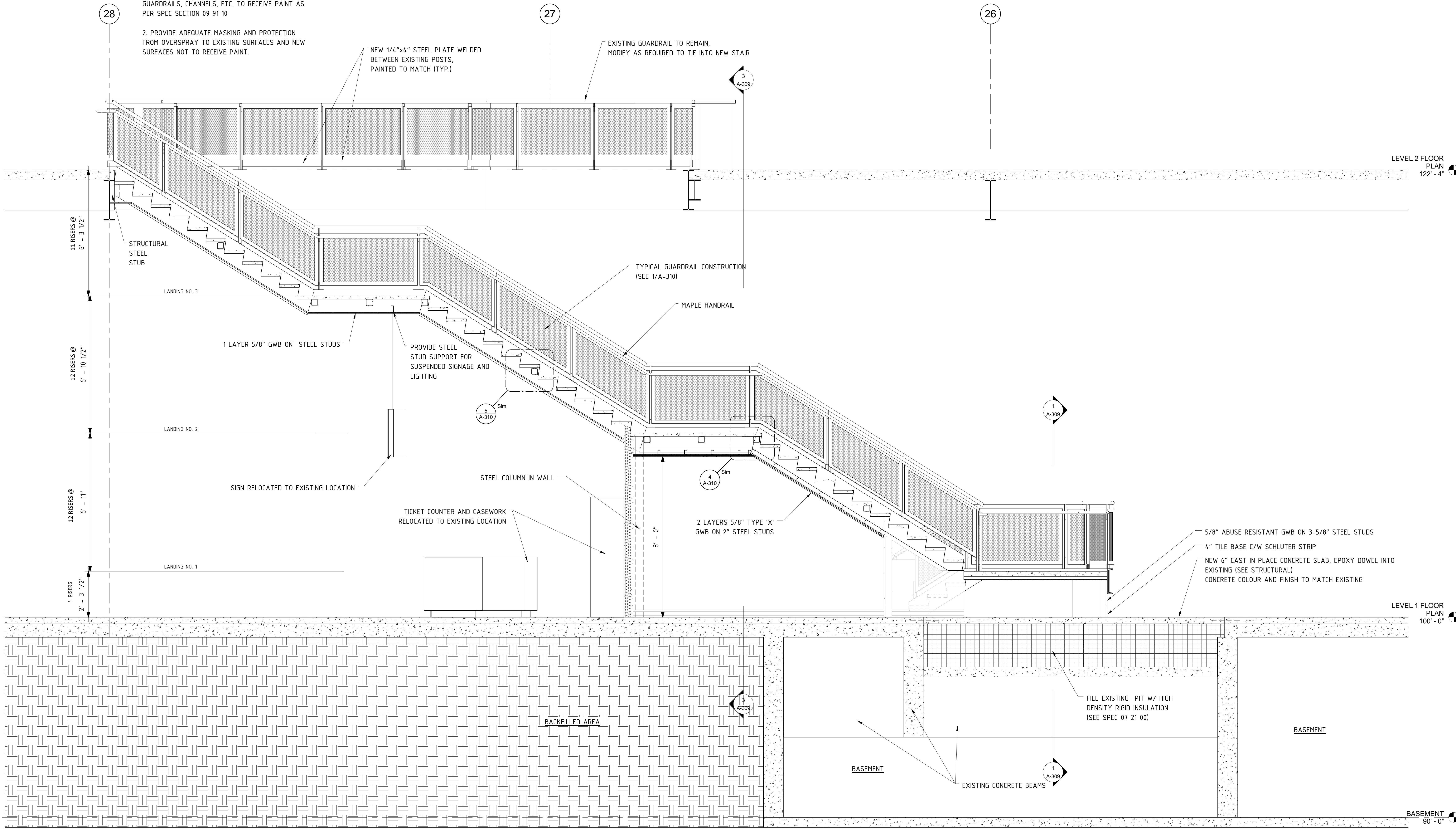
LEVEL 1 FLOOR PLAN
 100' - 0"

NOTE:
 1. ALL NEW AND EXISTING EXPOSED STEEL GUARDRAILS, CHANNELS, ETC, TO RECEIVE PAINT AS PER SPEC SECTION 09 91 10

2. PROVIDE ADEQUATE MASKING AND PROTECTION FROM OVERSPRAY TO EXISTING SURFACES AND NEW SURFACES NOT TO RECEIVE PAINT.

NEW 1/4"x4" STEEL PLATE WELDED BETWEEN EXISTING POSTS, PAINTED TO MATCH (TYP.)

EXISTING GUARDRAIL TO REMAIN, MODIFY AS REQUIRED TO TIE INTO NEW STAIR



GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESQ ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

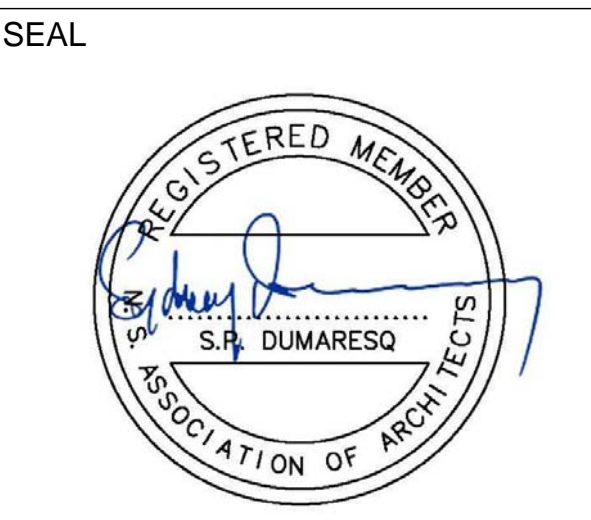
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9/15	1	ISSUED FOR TENDER



SCALE	1/2" = 1'-0"
DRAWN BY	JC
CHECKED BY	SPD
DATE	NOVEMBER 9, 2015

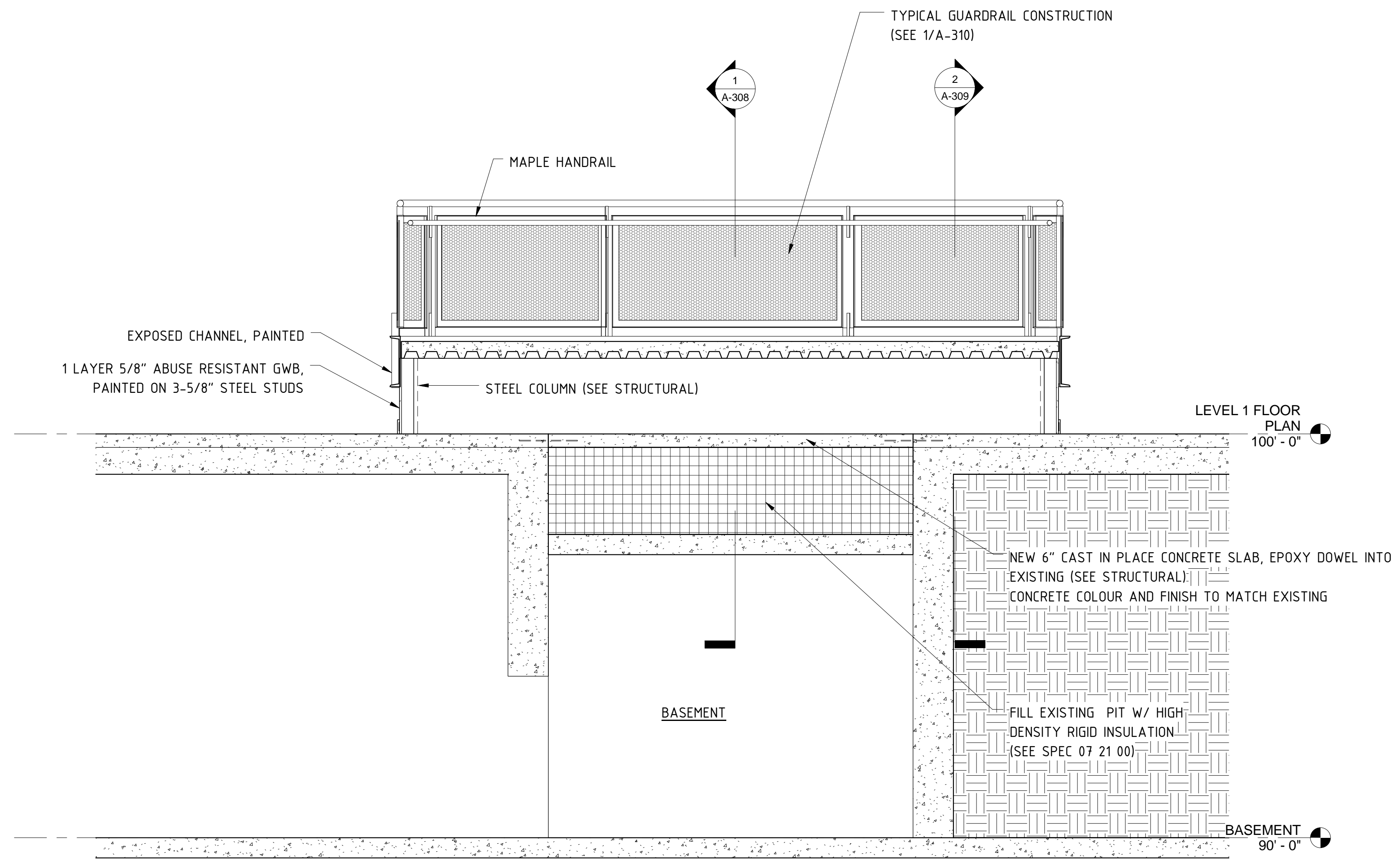
PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

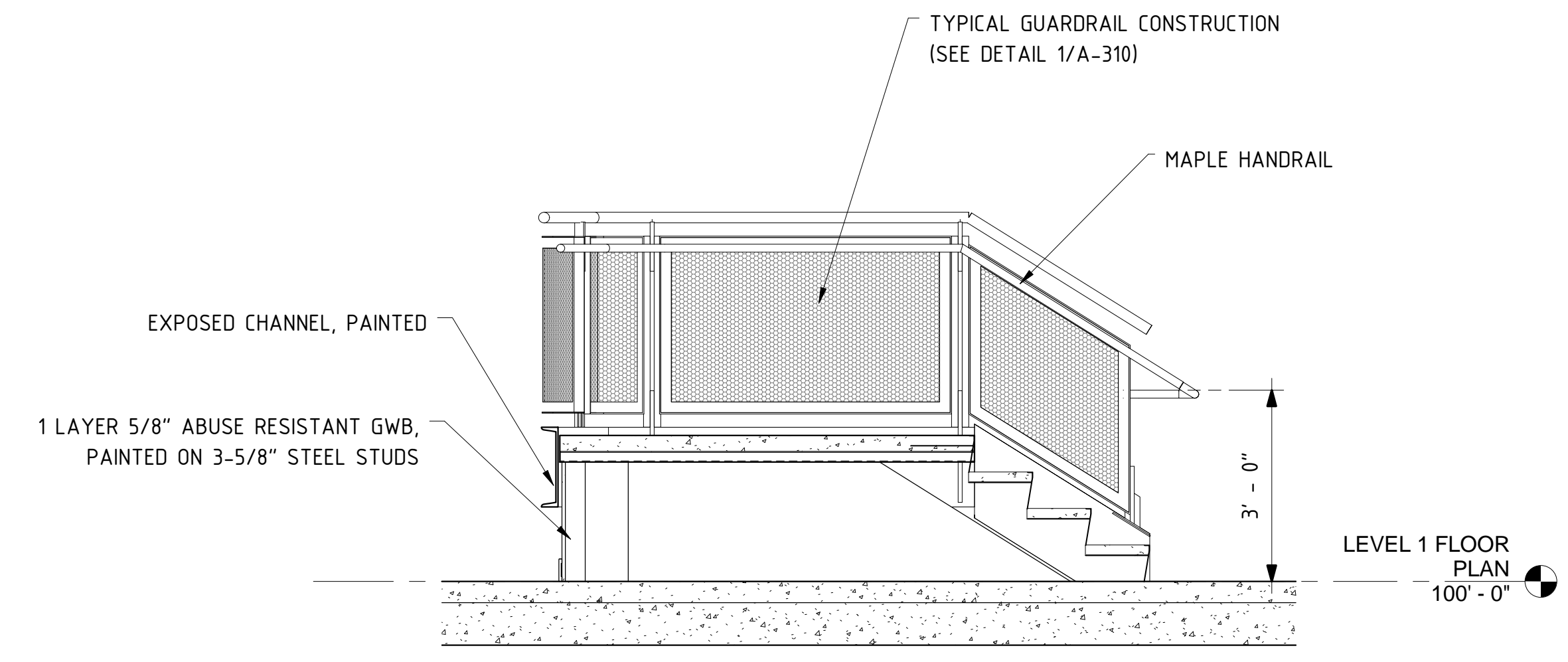
STAIR SECTIONS

A-308

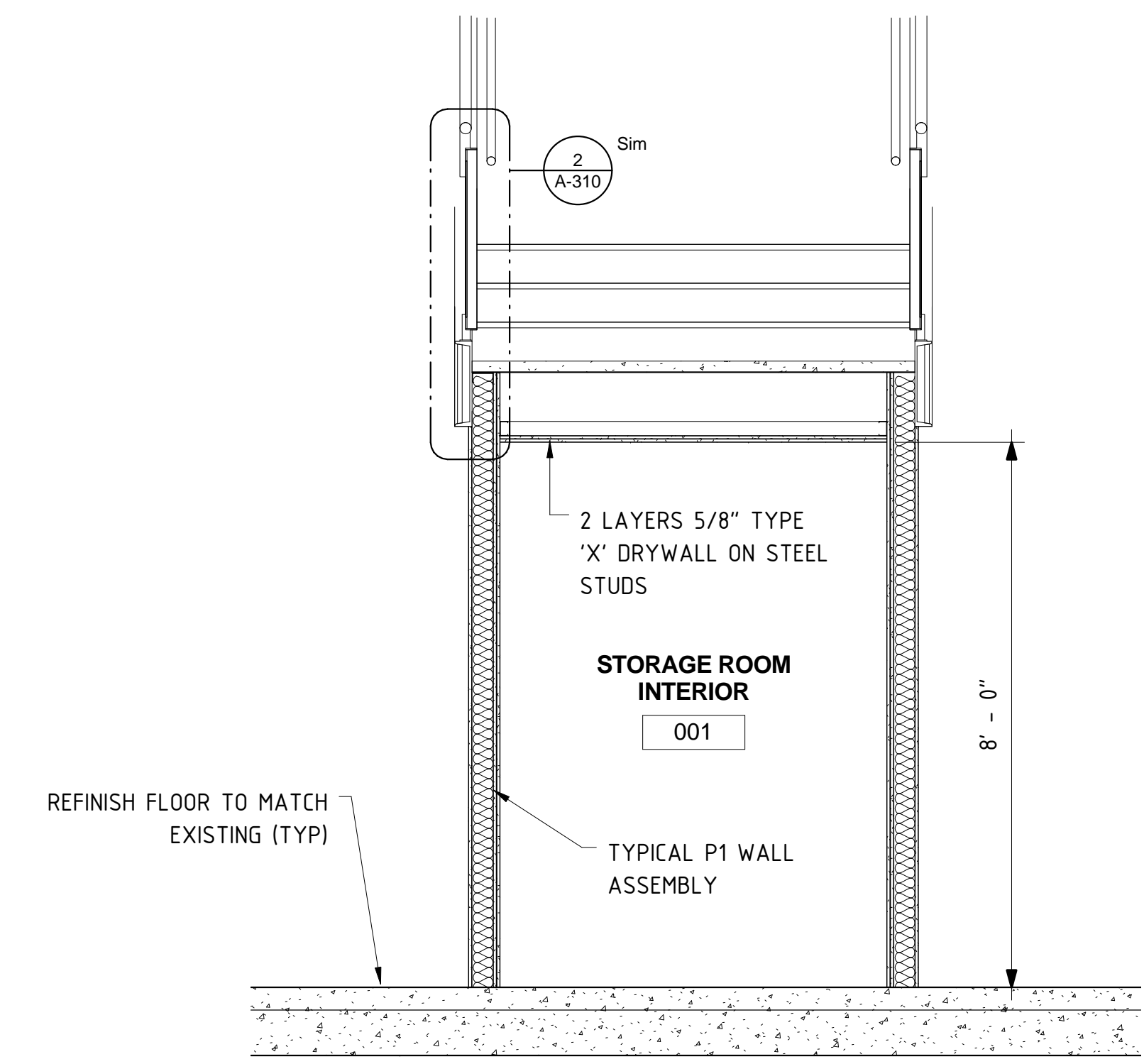
1 STAIR SECTION - CENTRE
 1/2" = 1'-0"



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



2 NORTH/SOUTH SECTION AT LANDING
 1/2" = 1'-0"



3 SECTION AT STORAGE ROOM
 1/2" = 1'-0"

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESQ ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

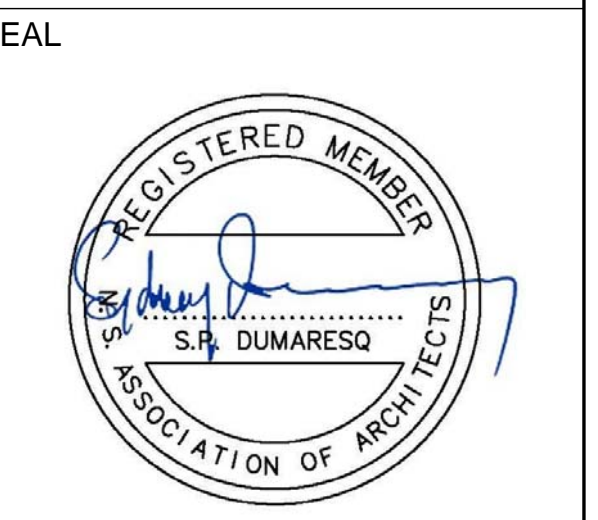
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9/15	1	ISSUED FOR TENDER



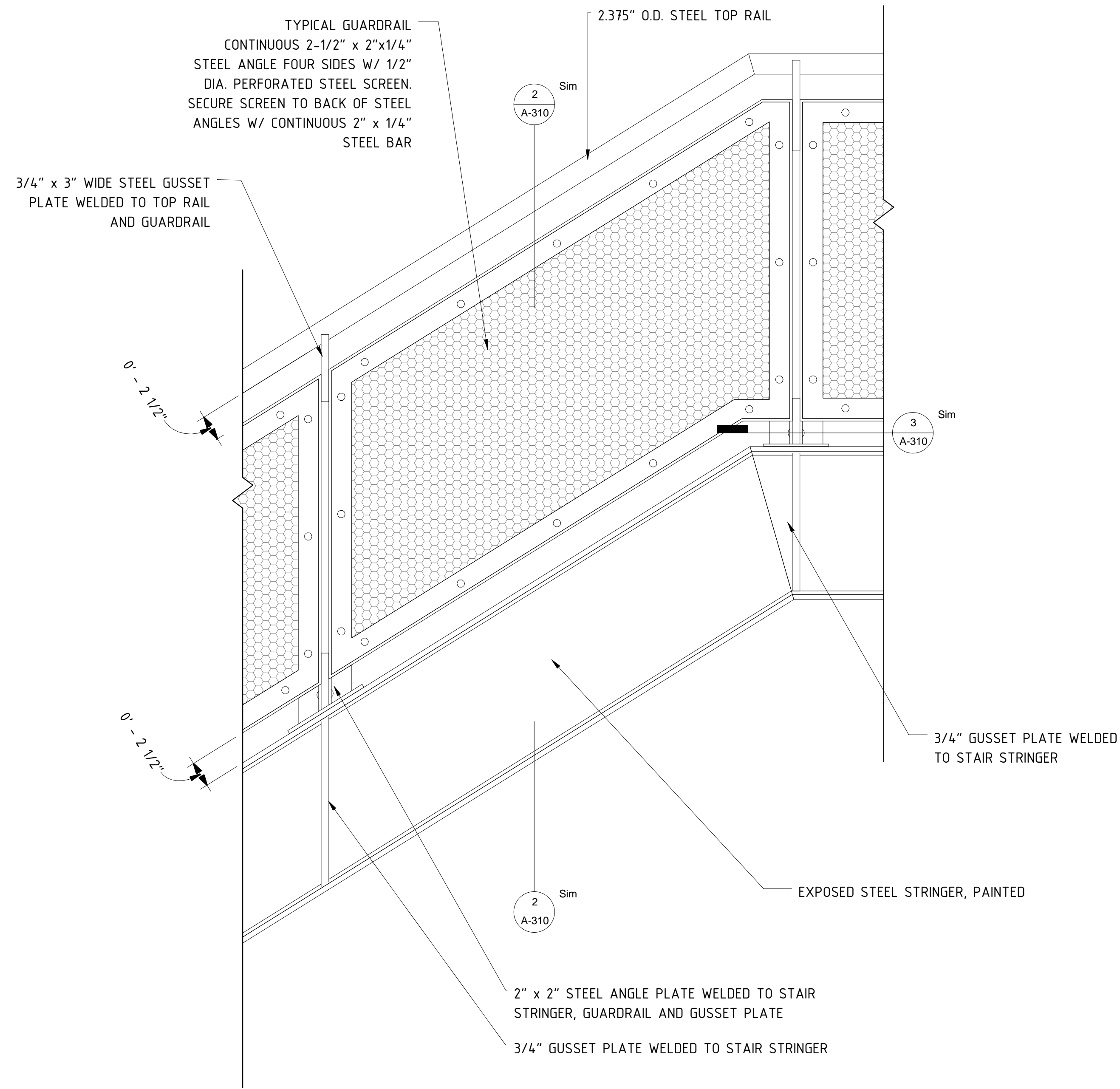
SCALE 1/2" = 1'-0"
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME
ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

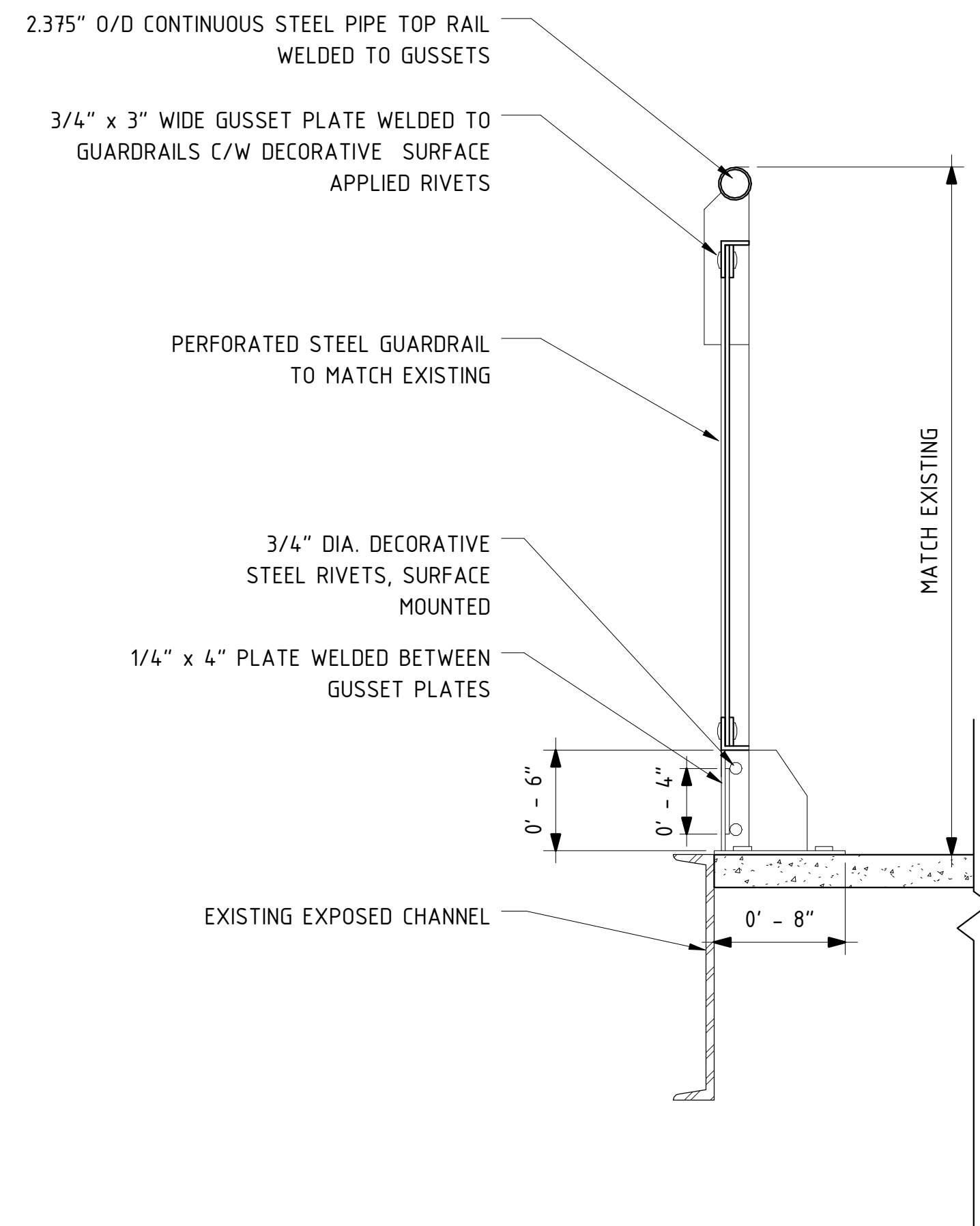
STAIR SECTIONS

A-309

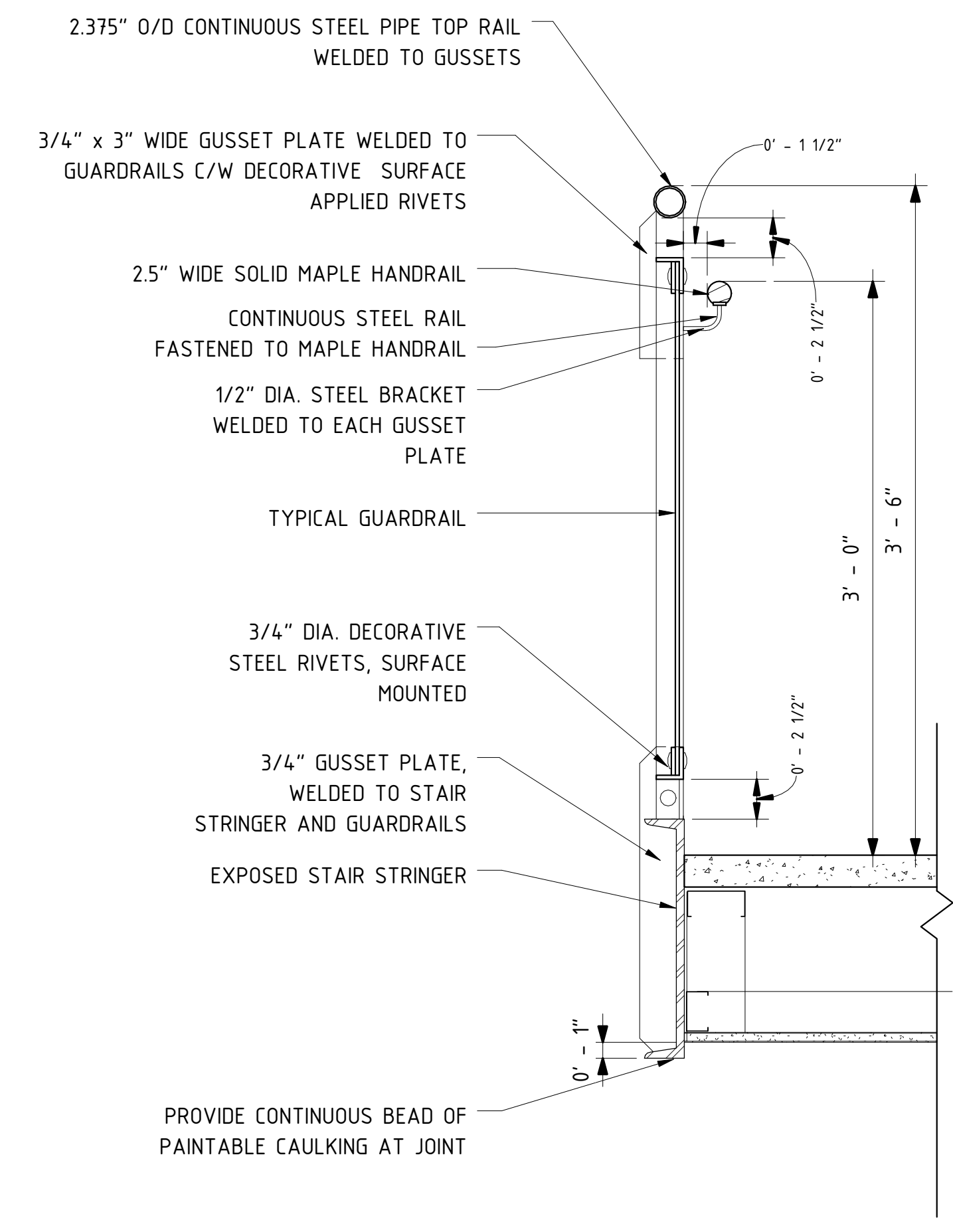
NOTE:
 NEW GUARDRAIL AT LEVEL 2 TO MATCH CONSTRUCTION AND DETAILING OF EXISTING



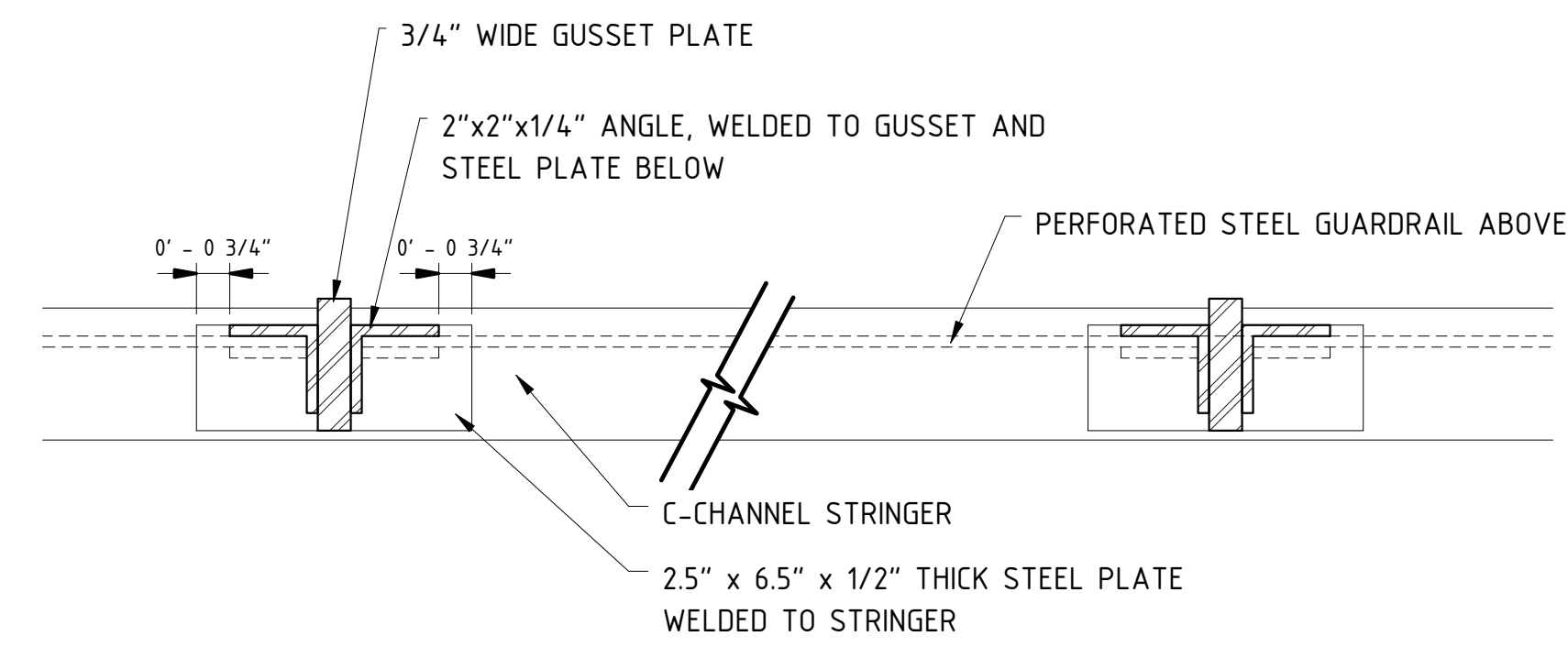
1 TYPICAL GUARDRAIL ELEVATION
 1 1/2" = 1'-0"



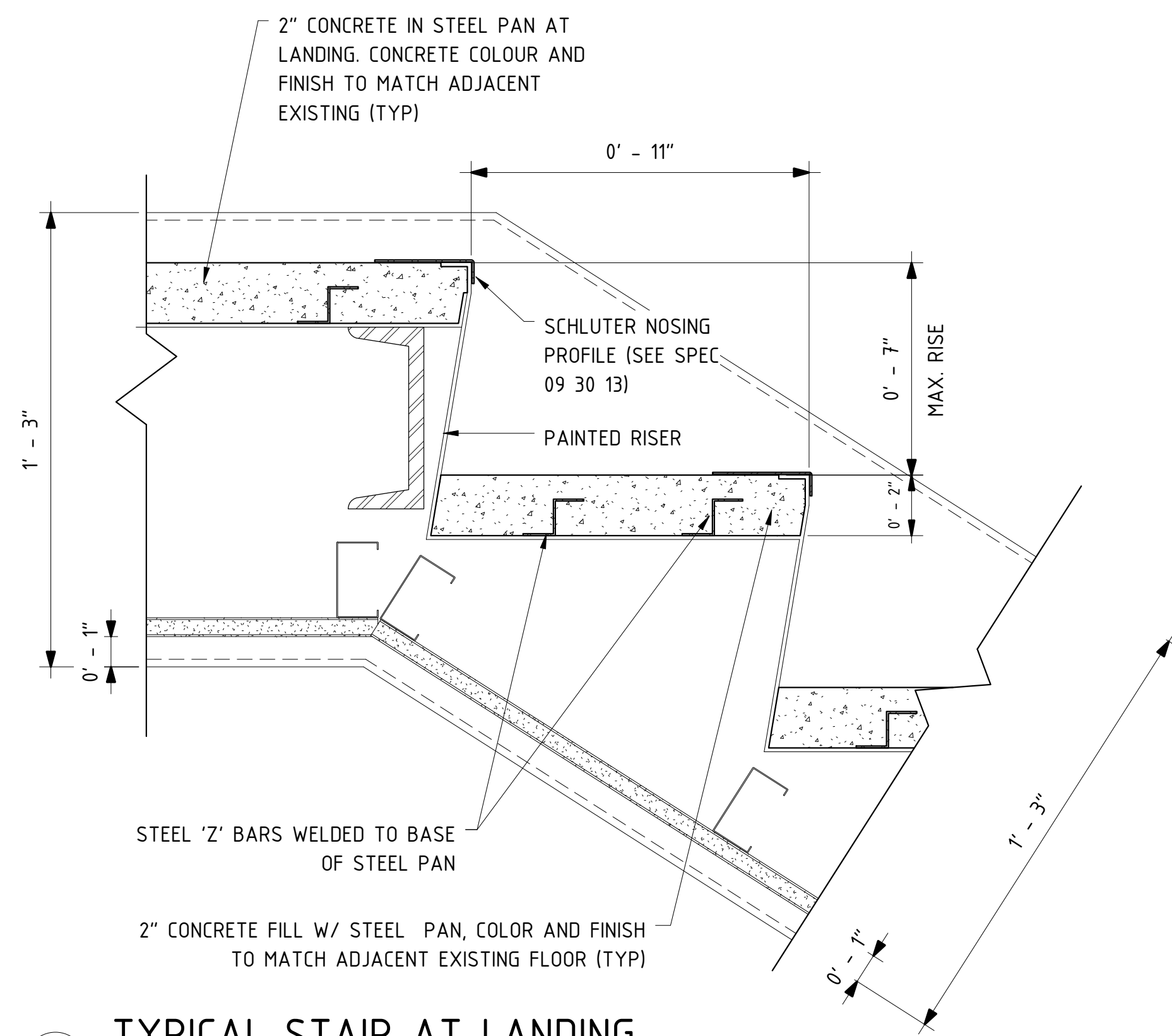
7 TYP. GUARDRAIL DETAIL AT LEVEL 2 LANDING
 1 1/2" = 1'-0"



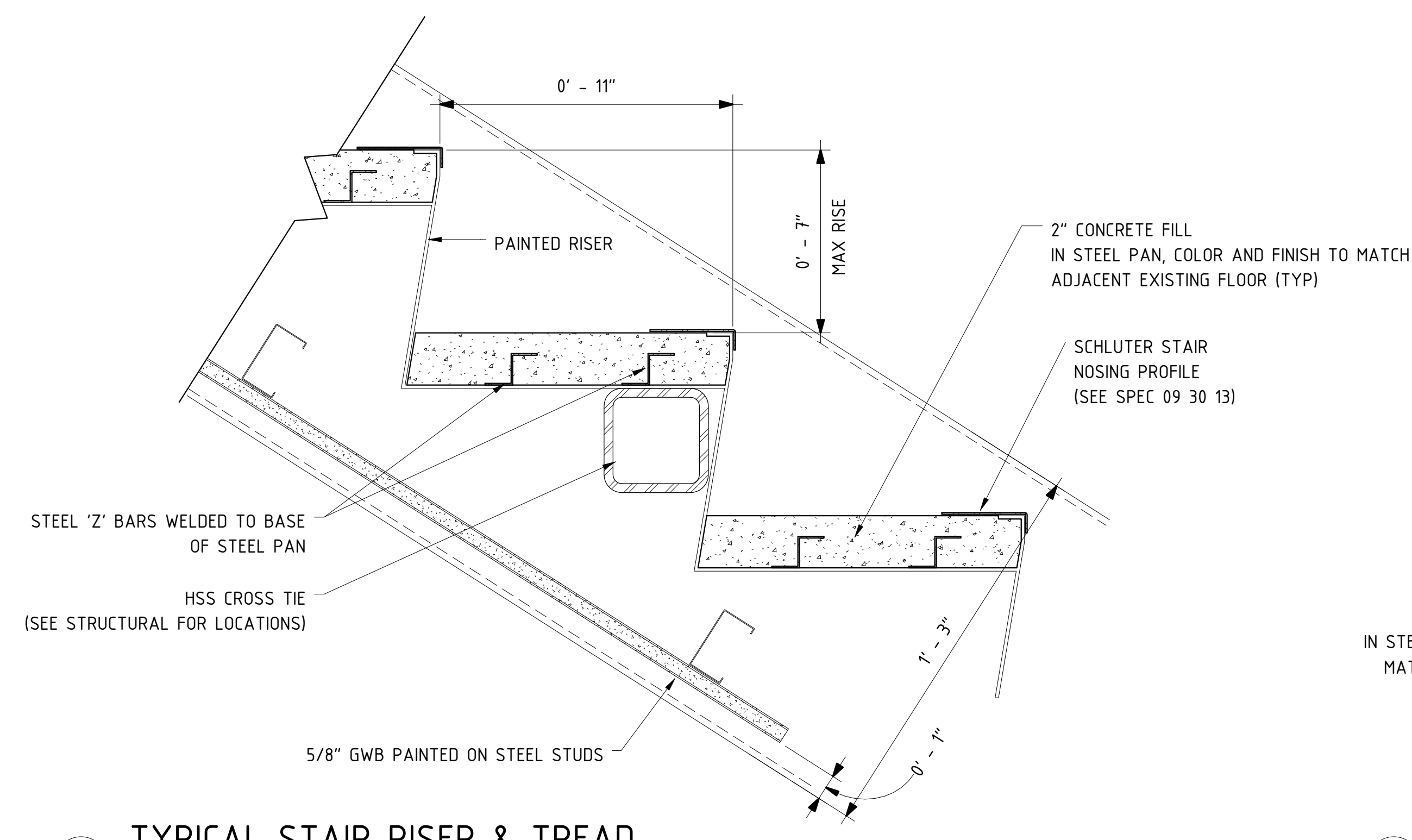
2 TYP. GUARDRAIL DETAIL
 1 1/2" = 1'-0"



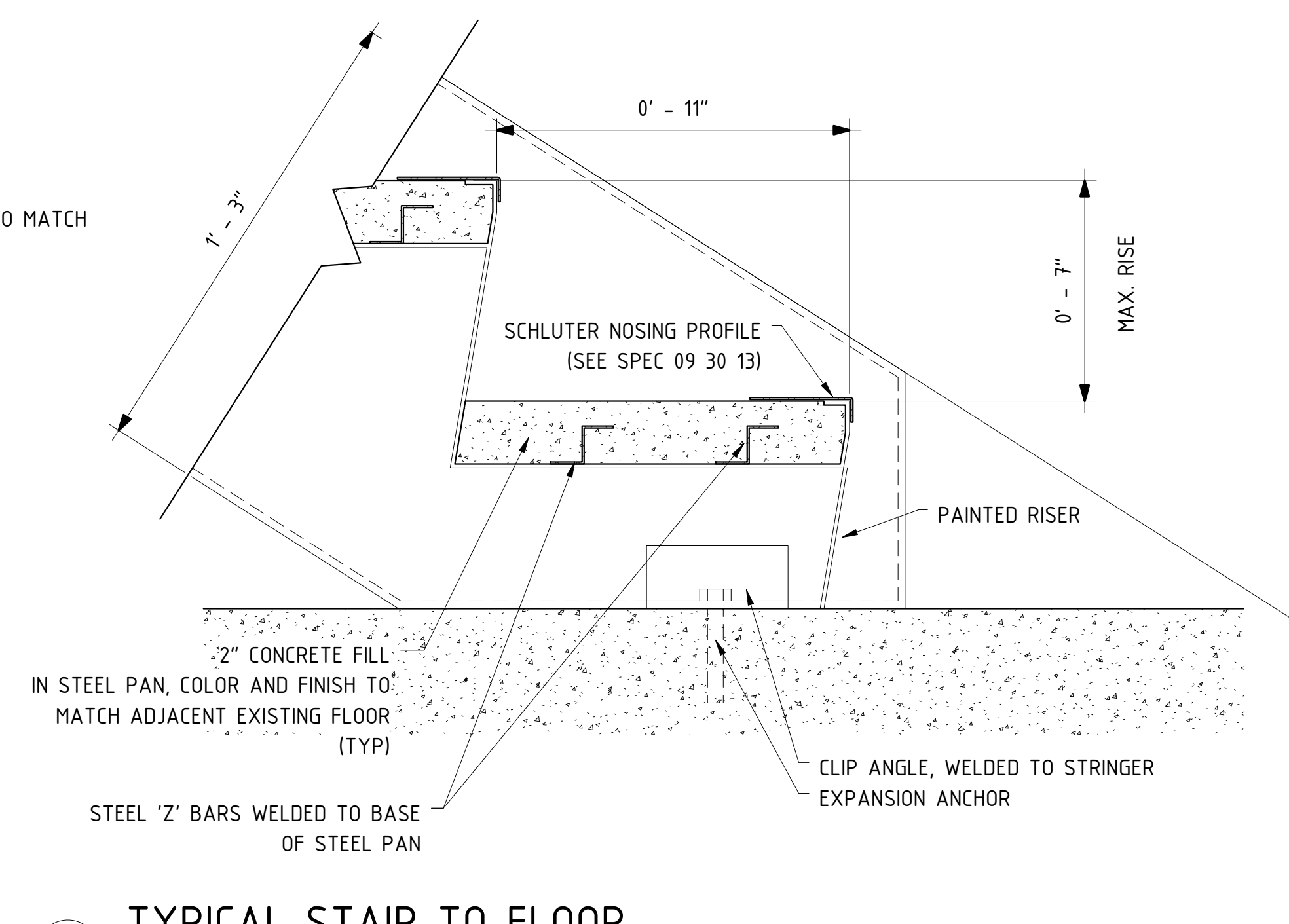
3 GUARDRAIL PLAN DETAIL
 3" = 1'-0"



4 TYPICAL STAIR AT LANDING
 3" = 1'-0"



5 TYPICAL STAIR RISER & TREAD
 3" = 1'-0"



6 TYPICAL STAIR TO FLOOR
 3" = 1'-0"

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESG ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.
 THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.
 DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.
 READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER

SEAL



SCALE As indicated
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

STAIR DETAILS

A-310

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESG ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL.

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

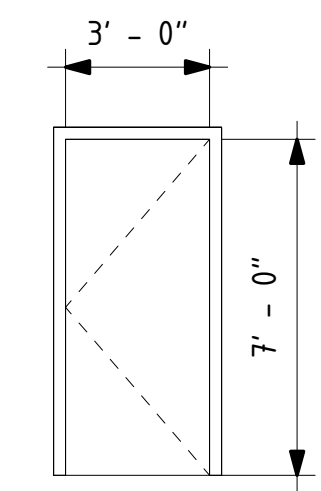
If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
NOV. 9 /15	1	ISSUED FOR TENDER



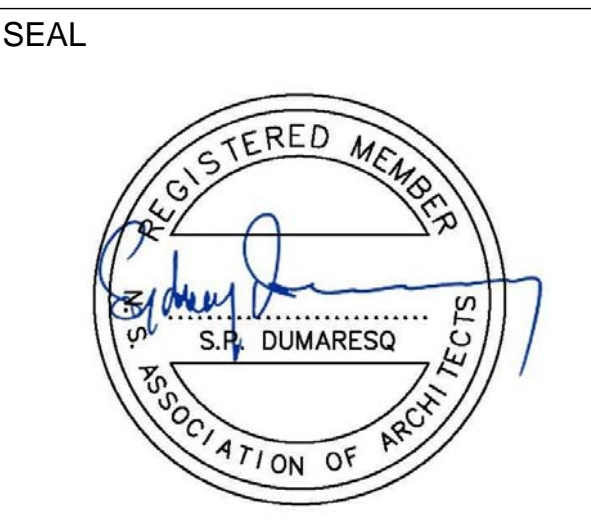
ROOM FINISH SCHEDULE						
ROOM NUMBER	ROOM NAME	BASE FINISH	WALL FINISH	FLOOR FINISH	CEILING FINISH	Comments
001	STORAGE ROOM INTERIOR	TILE	ARGWB PAINTED	EXP. CONCRETE W/ CHEMICAL HARDENER	GWB PAINTED	NEW CONCRETE FLOOR TO RECEIVE CHEMICAL HARDENER & FINISH TO MATCH ADJACENT SURFACE. EXISTING CONCRETE FLOOR CURRENTLY CONCEALED UNDER ESCALATOR TO BE REFURBISHED TO MATCH ADJACENT SURFACE.
N/A	STAIR/STORAGE ROOM EXTERIOR	TILE	ARGWB PAINTED	EXP. CONCRETE W/ CHEMICAL HARDENER	GWB PAINTED	
N/A	STAIR TREADS AND RISERS	PAINTED RISERS	N/A	EXP. CONCRETE W/ CHEMICAL HARDENER (TREADS & LANDINGS)	N/A	

DOOR SCHEDULE						
DOOR NUMBER	HEIGHT	WIDTH	THICKNESS	FRAME TYPE	FIRE RATING	COMMENTS
100	7' - 0"	3' - 0"	0' - 1 3/4"	PS	45 MIN	DOOR AND FRAME PAINTED TO MATCH SURROUNDING WALL, SEMI GLOSS FINISH



DOOR 100
HOLLOW METAL DOOR IN PRESSED STEEL FRAME

- ABBREVIATIONS:
- PS PRESSED STEEL
 - ARGWB ABUSE RESISTANT GYPSUM WALL BOARD
 - GWB GYPSUM WALL BOARD



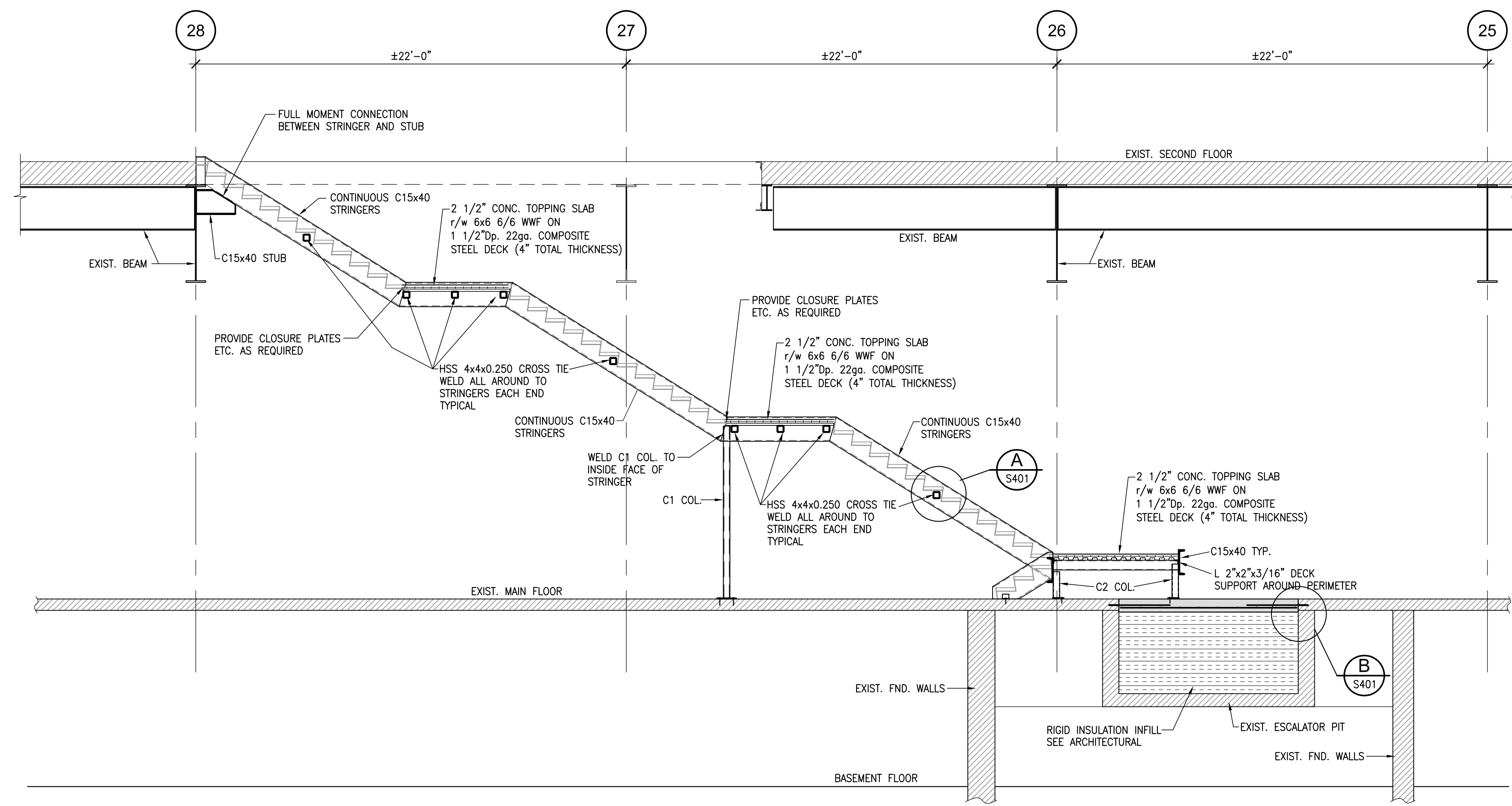
SCALE 1/4" = 1'-0"
 DRAWN BY JC
 CHECKED BY SPD
 DATE NOVEMBER 9, 2015

PROJECT NAME

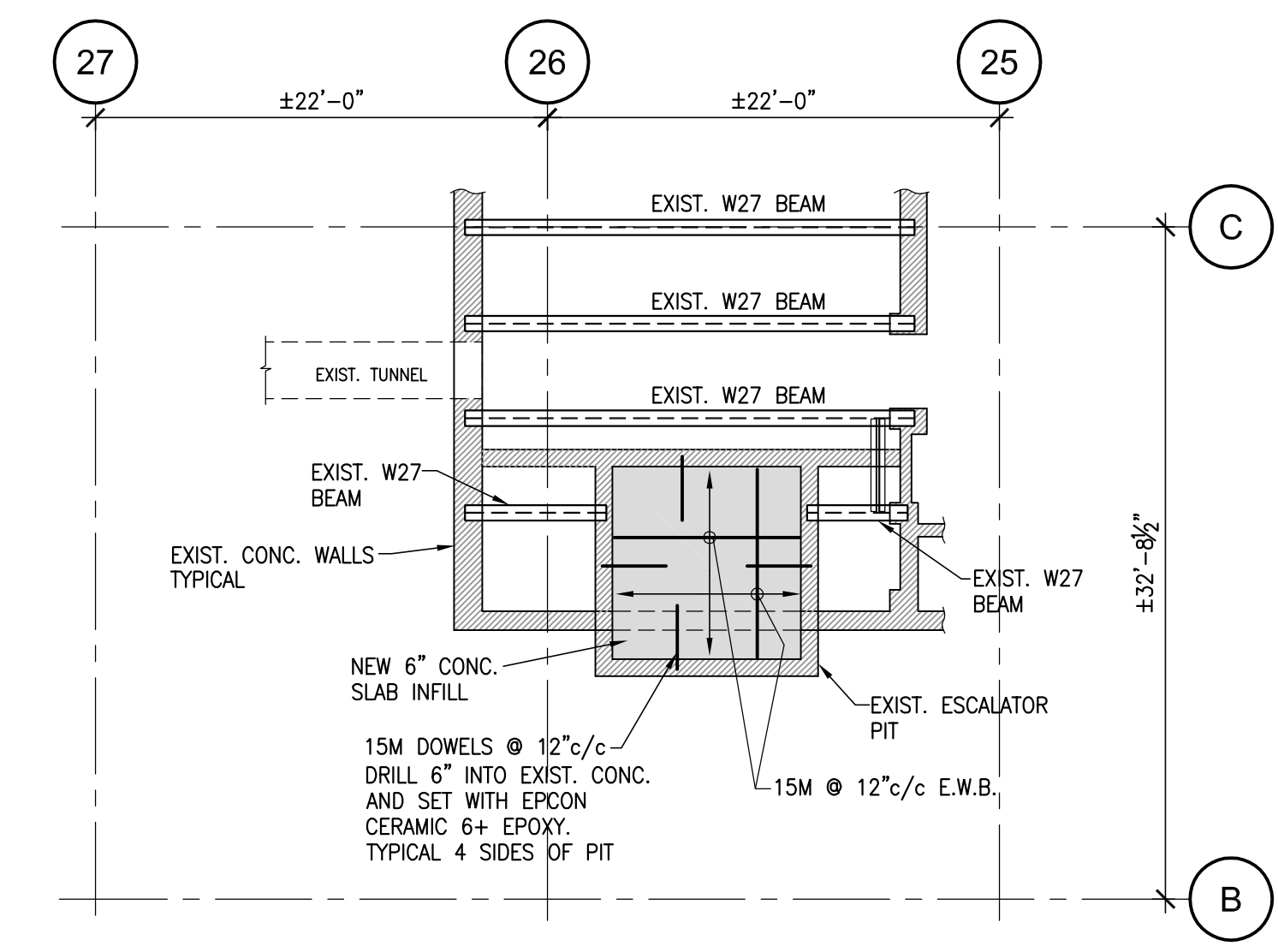
ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

ROOM FINISH AND DOOR SCHEDULE

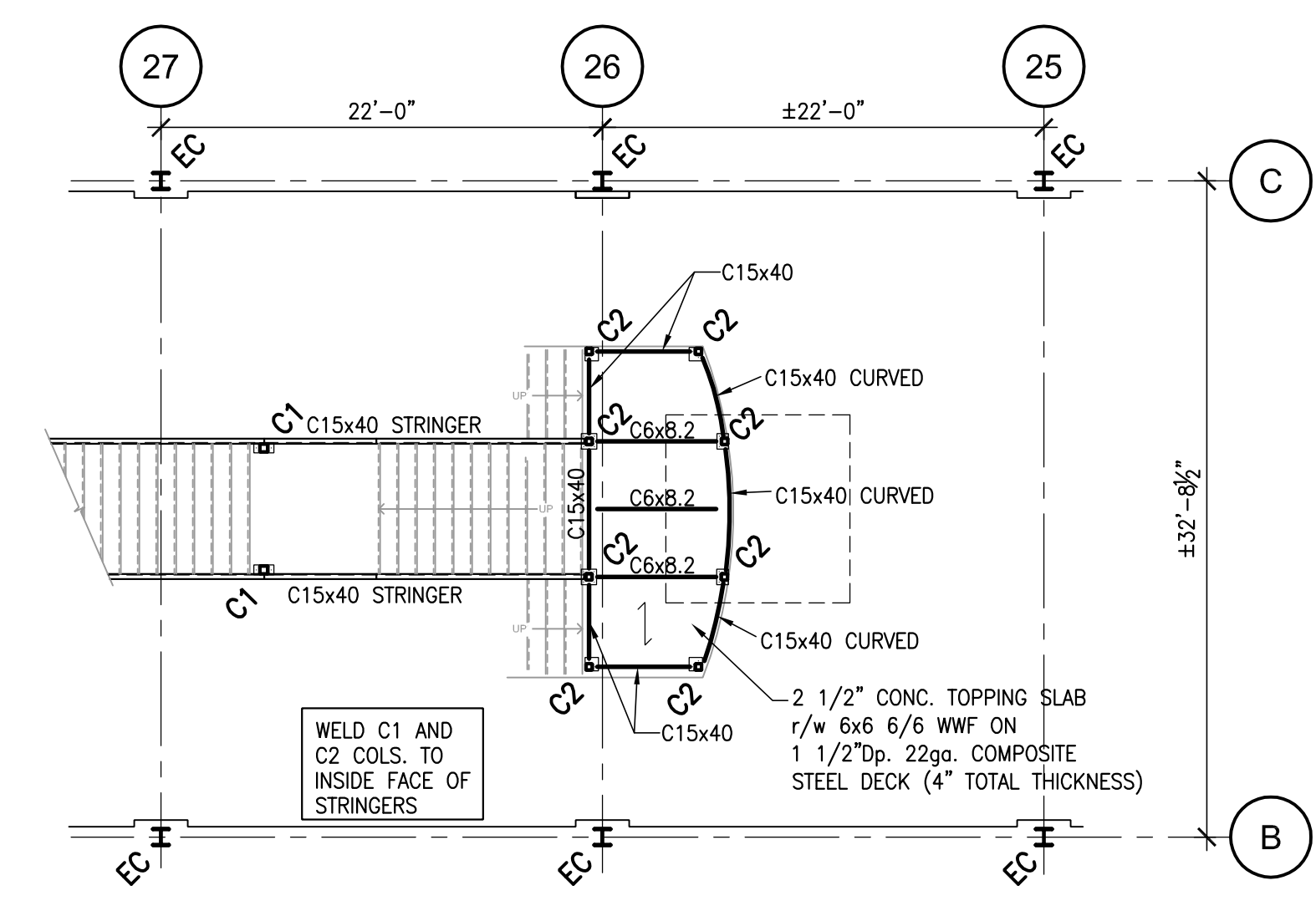
A-311



SECTION 1
SCALE: 1/4"=1'-0"
S401



PARTIAL MAIN FLOOR PLAN-PIT INFILL
SCALE: 1/8"=1'-0"



PARTIAL MAIN FLOOR PLAN-COLUMN LAYOUT
SCALE: 1/8"=1'-0"

- C1:** HSS 5x5x0.250 COLUMN
6"x12"x5/8" BASE PLATE
2-3/4" EPOXY ANCH.
- C2:** HSS 4x4x0.250 COLUMN
8"x8"x1/2" BASE PLATE
2-3/4" EPOXY ANCH.

GENERAL NOTES

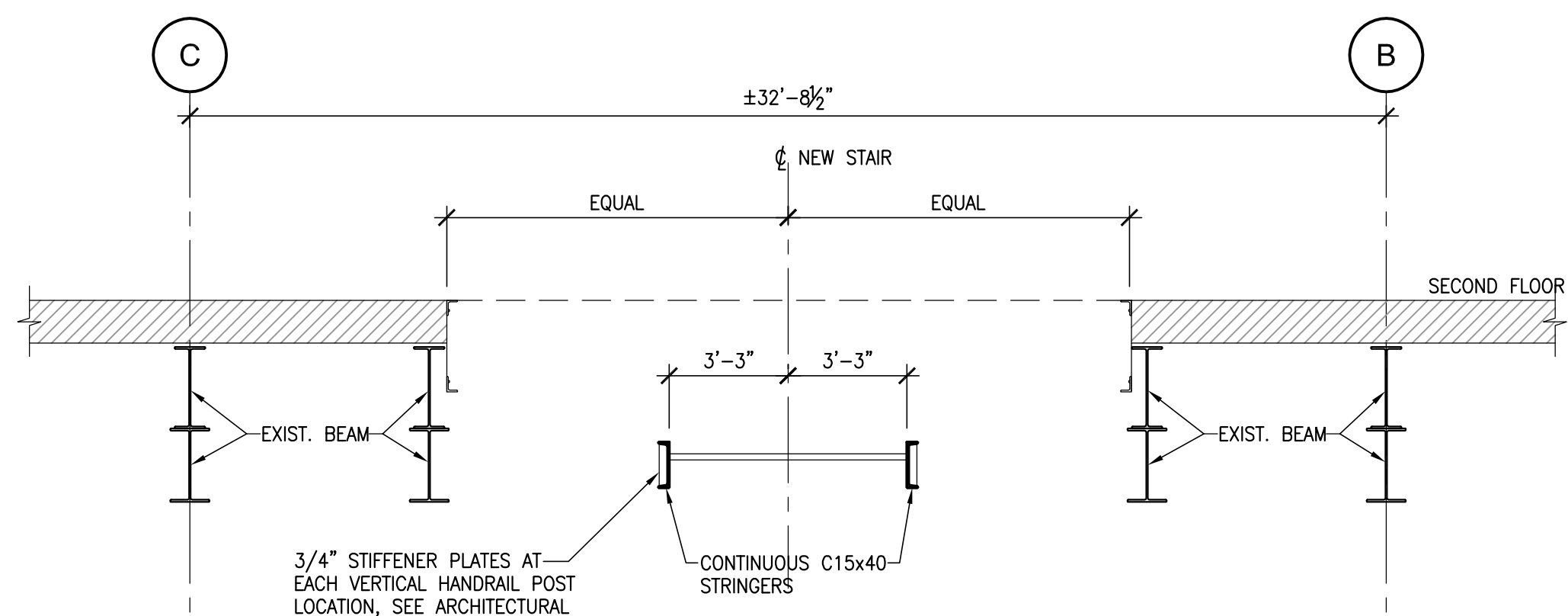
1. ALL WORK AND MATERIALS SHALL CONFORM TO THE 2010 EDITION OF THE NATIONAL BUILDING CODE.
2. DO NOT SCALE THE DRAWINGS.
3. CHECK DIMENSIONS ON THESE DRAWINGS AGAINST DIMENSIONS ON ARCHITECTURAL DRAWINGS BEFORE USING. REPORT ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND CHECK ALL DIMENSIONS AGAINST SITE CONDITIONS AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
5. CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ADEQUATE TEMPORARY BRACING AND SHORING OF ALL STRUCTURAL ELEMENTS FOR STABILITY AND SAFETY WHERE REQUIRED DURING CONSTRUCTION. (THE ABOVE WORK IS BEYOND THE SCOPE OF BMR STRUCTURAL ENGINEERING).

STRUCTURAL STEEL NOTES

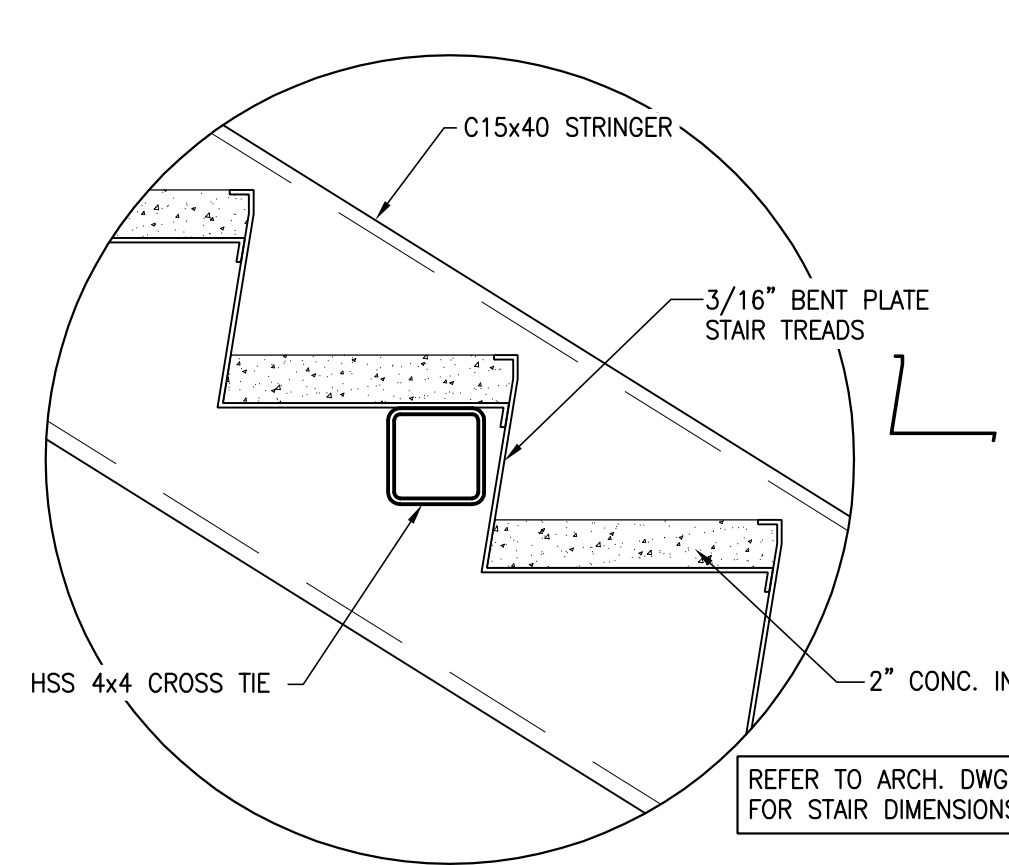
1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA S16.
2. ALL STRUCTURAL STEEL SHALL BE NEW STOCK AND CONFORM TO THE FOLLOWING GRADES AND STANDARDS:
 - 2.1. CSA-G40.21 TYPE 350W UNLESS NOTED.
 - 2.2. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE C.
 - 2.3. COLD FORMED SECTIONS: CSA S136, 350 MPa MIN. YIELD STRENGTH.
 - 2.4. CHANNELS, ANGLES, PLATE & ROD MATERIAL TYPE 300W.
3. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CSA W59 AND W55.3 BY A FABRICATOR FULLY APPROVED UNDER CSA W47.1 DIVISION No.1 OR No.2.
4. ALL BOLTS, NUTS AND WASHERS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A325.
5. ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO CSA-G40.21 TYPE 300W.
6. SPLICES IN STEEL MEMBERS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, SHALL NOT BE PERMITTED WITHOUT THE PERMISSION OF THE ENGINEER.
7. ALL WELDED JOINTS IN ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL BE GROUND SMOOTH AND SHALL HAVE ALL WELD SPLATTER REMOVED.
8. SHOP PAINT TO CISC/CPMA 1-73c EXCEPT AS NOTED IN SPECIFICATIONS. TOUCH UP SCRATCHES, BOLTS AND WELDS AFTER ALL STEEL IS ERECTED.
9. ALL STEEL DECK SHALL BE COATED TO ZF001 (A01) AS DESCRIBED BY ASTM A653.
10. ALL FABRICATORS SHALL SUBMIT SHOP DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF CONSTRUCTION PRIOR TO COMMENCEMENT OF FABRICATION.
11. DESIGN ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS FOR SHEAR CALCULATED FROM BEAM LOADED TO FLEXURAL CAPACITY WITH UDL. LOAD BASED ON SPAN OF BEAM U/NOTED. BEAMS WITH SIGNIFICANT CONCENTRATED LOADS SHALL BE DESIGNED FOR ADDITIONAL SHEAR CONNECTIONS AS REQUIRED.

REINFORCED CONCRETE NOTES

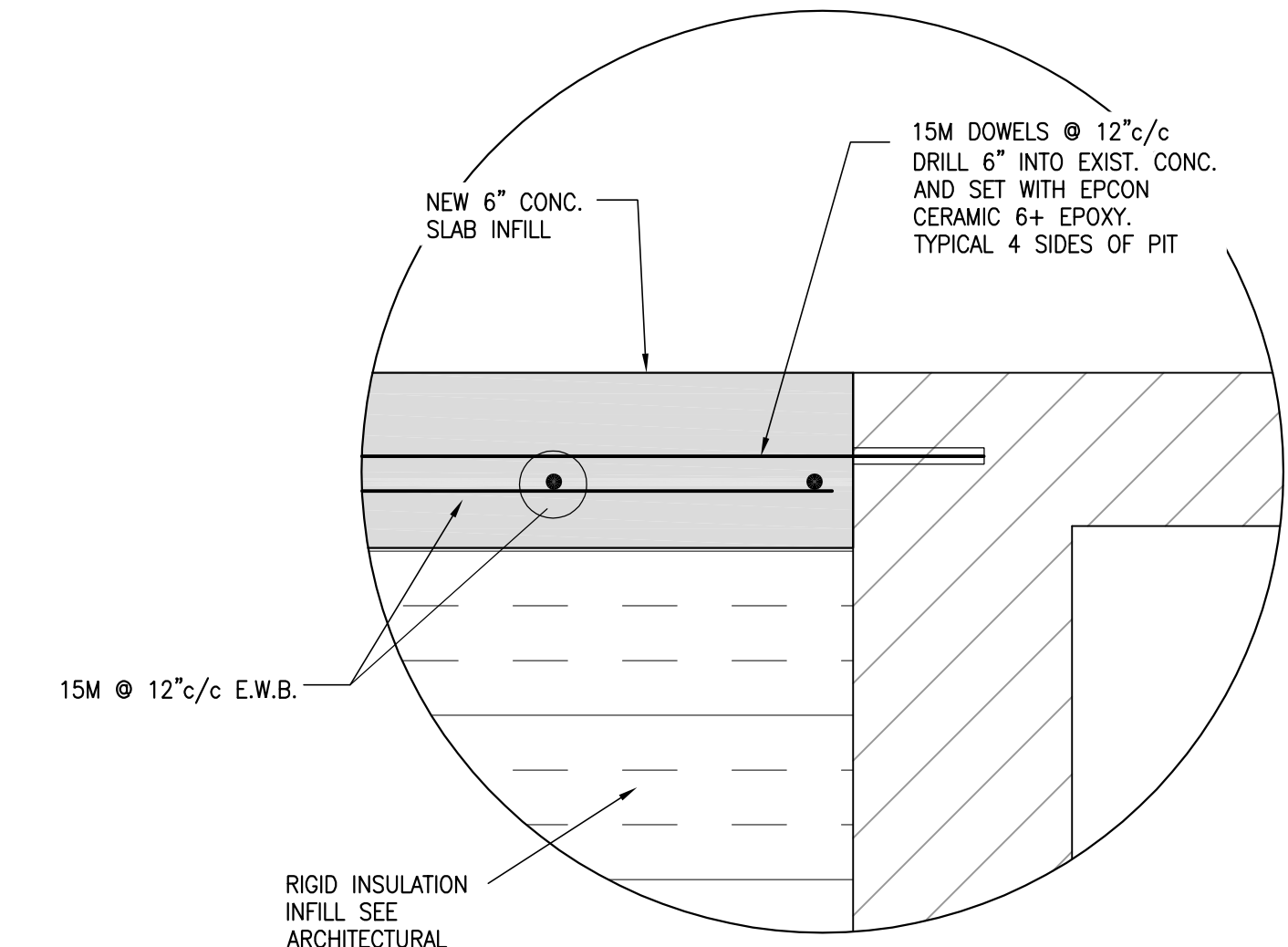
1. ALL CONCRETE STRUCTURES SHALL CONFORM TO CSA-A23.3 UNLESS NOTED OTHERWISE.
2. ALL CONCRETE, CONCRETE MATERIAL, FORMS, PRACTICE, ETC., SHALL CONFORM TO CSA-A23.1 UNLESS NOTED OTHERWISE.
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS:
 - 3.1. CONCRETE ELEMENTS UNLESS NOTED OTHERWISE: 4,000 psi
 - 3.2. EXTERIOR CONCRETE ELEMENTS EXPOSED TO WEATHER: 5,000 psi
 - 3.3. MUD SLAB: 2,000 psi
4. ALL CONCRETE TESTING SHALL CONFORM TO CSA-A23.2.
5. USE 3/4" MAX. AGGREGATE SIZE THROUGHOUT UNLESS NOTED. SLUMP TO BE 3" (+1") THROUGHOUT UNLESS NOTED.
6. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION DURING THE PLACEMENT OF CONCRETE TO ENSURE THAT THE REINFORCING STEEL IS MAINTAINED IN ITS CORRECT POSITION.
7. FOR OPENINGS REQUIRED BY OTHER TRADES, SEE MECH. AND ARCH. DRAWINGS. NO OPENINGS SHALL BE MADE IN FLOOR SLABS NEAR A COLUMN OR A WALL WITHOUT SPECIFIC APPROVAL FROM THE STRUCTURAL ENGINEER. WHERE SMALL DIAMETER PIPING IS ALLOWED, IT SHALL BE INDIVIDUALLY SLEEVED AND LOCATED SO THAT NO REINFORCING STEEL IS CUT.
8. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPa AND SHALL CONFORM TO CSA G30.18.
9. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" BY THE REINFORCING STEEL INSTITUTE OF CANADA.



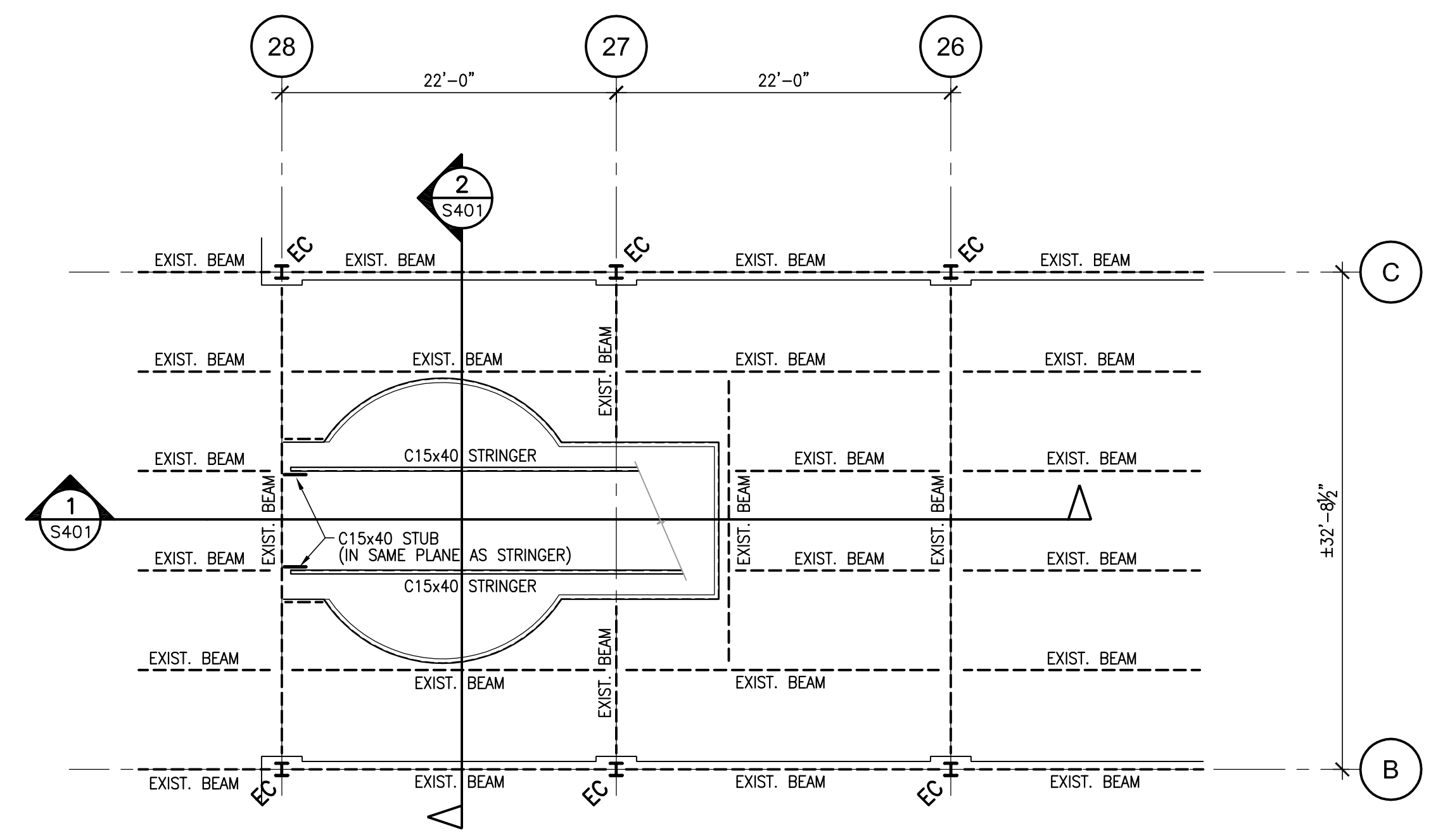
SECTION 2
SCALE: 1/4"=1'-0"
S401



DETAIL A
SCALE: 1 1/2"=1'-0"
S401



DETAIL B TYPICAL 4 SIDES
SCALE: 1 1/2"=1'-0"
S401

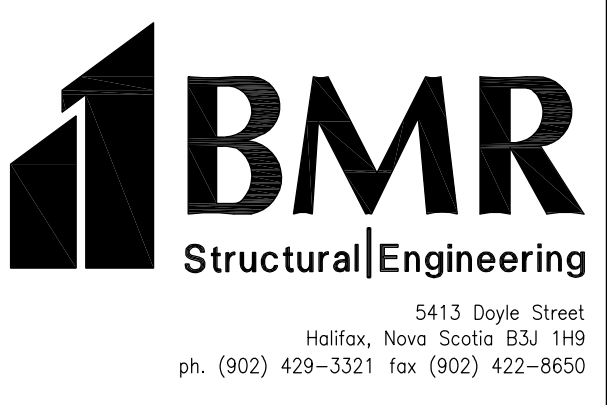


PARTIAL SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"
EC: EXISTING COLUMN

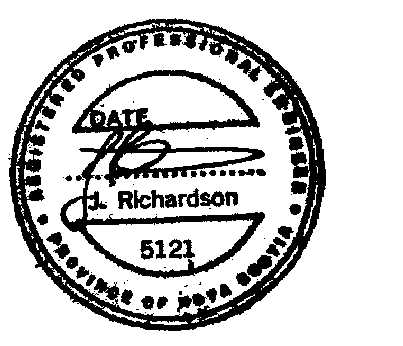
GENERAL NOTES

DATE	#	ISSUE
10/10/15	1	FOR TENDER

If dimension does not measure 1" the drawing is not printed to scale.



SEAL



SCALE	
DRAWN BY	JC
CHECKED BY	SPD
DATE	NOVEMBER 10, 2015

PROJECT NAME

ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

PARTIAL PLANS, DETAILS AND NOTES

S-401

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESGO ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL. T

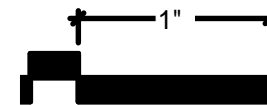
THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.



DATE	#	ISSUE
11/09/15	1	FOR TENDER



SCALE	
DRAWN BY	
CHECKED BY	
REVIEWED BY	
APPROVED BY	
DATE	NOVEMBER 10, 2015

PROJECT NAME

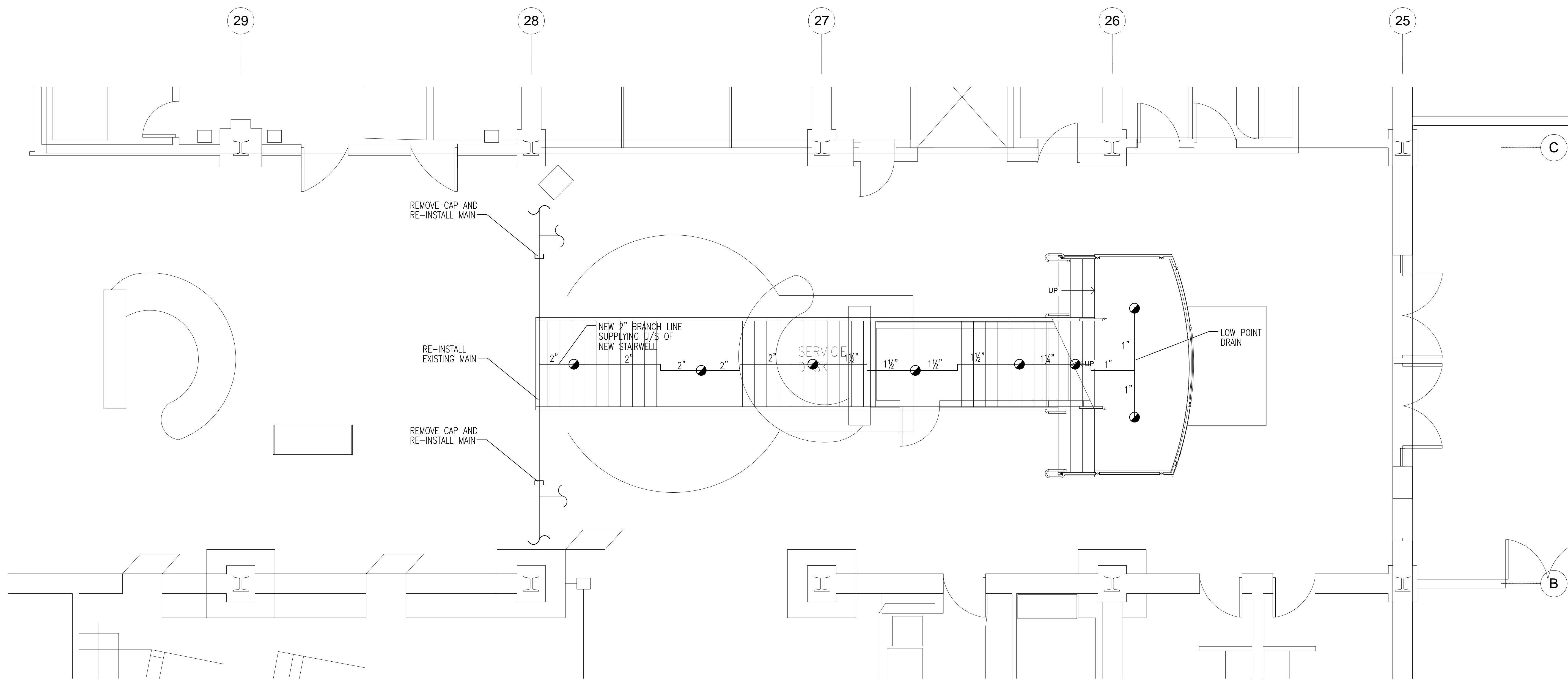
ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

MECHANICAL SPECIFICATIONS

SPEC-100

- 1 GENERAL**
- 1.1 REFERENCE STANDARDS
- THE MOST STRINGENT REQUIREMENTS OF LOCAL MUNICIPAL, BY-LAWS, PROVINCIAL CODES AND FOLLOWING CODES AND STANDARDS SHALL BE FOLLOWED.
 - IN NO INSTANCE SHALL THE STANDARD ESTABLISHED BY THE CONTRACT DOCUMENTS BE REDUCED BY THE APPLICATION OF ANY OTHER CODES.
 - ASHRAE HANDBOOKS AND STANDARDS.
 - NATIONAL FIRE CODE OF CANADA.
 - SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
 - CSA C22.1, CANADIAN ELECTRICAL CODE, PART 1 SAFETY STANDARD FOR ELECTRICAL INSTALLATIONS.
 - SPECIFICATION M353/M353M STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVALANNEAL) BY THE HOT-DIP PROCESS.
- 1.2 DEFINITIONS
- "CONCEALED" - MECHANICAL SERVICES AND EQUIPMENT IN HUNG CEILING SPACES AND NON-ACCESSIBLE CHASES AND FLURRED SPACES.
 - "EXPOSED" - WILL MEAN "NOT CONCEALED" AS DEFINED HEREIN.
- 1.3 EXAMINE THE SITE CONDITIONS. EACH CONTRACTOR SHALL VISIT AND EXAMINE THE SITE AND THE LOCAL CONDITIONS AFFECTING THIS WORK. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSES OCCURRED THROUGH FAILURE TO MAKE THESE EXAMINATIONS.
- 1.4 USE PERMANENT HEATING AND/OR VENTILATING SYSTEMS FOR SUPPLYING TEMPORARY HEAT OR VENTILATION IS NOT PERMITTED.
- 1.5 PROTECT EQUIPMENT AND SYSTEMS OPENINGS FROM DIRT, DUST, AND OTHER FOREIGN MATERIALS WITH MATERIALS APPROPRIATE TO SYSTEM.
- 1.6 MATERIAL
- STANDARD OF ACCEPTANCE AND/OR ACCEPTABLE MATERIAL: MEANS THAT ITEM NAMED AND SPECIFIED BY MANUFACTURER AND/OR CATALOGUE NUMBER FORMS PART OF SPECIFICATION AND SETS STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL, AND WORKMANSHIP AND WHEN USED IN CONJUNCTION WITH A REFERENCED STANDARD, SHALL BE DEEMED TO SUPPLEMENT THE STANDARD.
 - ACCEPTABLE MANUFACTURER: MEANS THAT ITEM MANUFACTURED BY NAMED AND SPECIFIED MANUFACTURER, MEETING THE SPECIFICATION AND REFERENCED STANDARD REGARDING PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP SHALL BE DEEMED ACCEPTABLE.
 - SHOULD THE CONTRACTOR DESIRE TO SUBSTITUTE A ANOTHER MANUFACTURER MATERIAL FOR ONE OR MORE SPECIFIED, THE CONTRACTOR SHALL APPLY IN WRITING FOR SUCH PERMISSION AT LEAST FIVE (5) CALENDAR DAYS BEFORE CLOSING DATE OF MECHANICAL TRADE TENDERS. THE CONTRACTOR SHALL ALSO PROVIDE TECHNICAL DATA AND/OR SAMPLES FOR THE CONSULTANT'S CONSIDERATION.
- 1.7 FOR THE PURPOSE OF UNIFORMITY SIMILAR MATERIALS SHALL BE BY ONE MANUFACTURER.
- 1.8 ALL LABOR AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER THE DATE OF ACCEPTED SUBSTANTIAL COMPLETION OF THE CONTRACT.
- 1.9 THIS CONTRACTOR SHALL GIVE ALL NOTICES AND OBTAIN ALL PERMITS AND PAY ALL FEES IN ORDER THAT THE WORK HEREIN MAY BE CARRIED OUT WITHOUT DELAY.
- 1.10 ELECTRICAL DEVICES AND PANELS
- ALL ELECTRICAL EQUIPMENT AND DEVICES TO BE CSA CERTIFIED AND MANUFACTURED TO STANDARD QUOTED.
 - WHERE FIELD MODIFICATIONS ARE MADE TO CERTIFIED ELECTRICAL EQUIPMENT, ARRANGE AND PAY FOR FIELD CERTIFICATION BY CSA.
- 1.11 ELECTRICAL PERMITS, FEES AND INSPECTIONS
- LINE VOLTAGE CONTROL WIRING: WIRING SHALL BE INSTALLED BY AN ELECTRICIAN. ELECTRICAL WIRING PERMITS: SUBMIT TO ELECTRICAL INSPECTION DEPARTMENT AND SUPPLY AUTHORITY NECESSARY NUMBER OF CONTROL DRAWINGS AND CONTROL SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. PAY ASSOCIATED FEES. FURNISH CERTIFICATES OF ACCEPTANCE FROM INSPECTION DEPARTMENT AND AUTHORITIES HAVING JURISDICTION ON COMPLETION OF WORK.
 - LOW VOLTAGE CONTROL WIRING: WIRING SHALL BE INSTALLED BY A CERTIFIED COMMUNICATIONS CABLING SPECIALISTS. COMMUNICATIONS WIRING PERMITS: SUBMIT TO ELECTRICAL INSPECTION DEPARTMENT AND SUPPLY AUTHORITY NECESSARY NUMBER OF CONTROL DRAWINGS AND CONTROL SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. PAY ASSOCIATED FEES. FURNISH CERTIFICATES OF ACCEPTANCE FROM INSPECTION DEPARTMENT AND AUTHORITIES HAVING JURISDICTION ON COMPLETION OF WORK.
- 1.12 CUTTING, PATCHING, AND WATERPROOFING NECESSARY FOR THE PROPER INSTALLATION OF THIS WORK, SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY INFORMATION TO THE GENERAL CONTRACTOR IN A TIMELY FASHION.
- 1.13 THIS CONTRACTOR SHALL PRESERVE ALL OPERATION AND MAINTENANCE INSTRUCTIONS AND MARKED-UP "RECORD" PRINTS AND TURN OVER TO THE OWNER AT JOB COMPLETION.
- 1.14 SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO THE SUPPLY AND INSTALLATION OF VENTILATION AND AIR CONDITIONING SYSTEMS, AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED.
- 1.15 EQUIPMENT SUPPORTS
- EQUIPMENT SUPPORTS NOT SUPPLIED BY EQUIPMENT MANUFACTURER: FABRICATE FROM STRUCTURAL GRADE STEEL.
- 1.16 PAINT
- APPLY AT LEAST ONE COAT OF PRIMER PAINT TO FERROUS SUPPORTS, PIPE HANGERS AND SITE FABRICATED WORK. PRIMER TO BE THE MASTER PAINTERS INSTITUTE MP-423 WITH VOC <51 GRAINS/L.
- 1.17 FIRESTOPPING
- FIRESTOPPING MATERIAL AND INSTALLATION WITHIN ANNULAR SPACE BETWEEN PIPES, DUCTS, INSULATION AND ADJACENT FIRE SEPARATION.
 - INSULATED PIPES AND DUCTS: ENSURE INTEGRITY OF INSULATION AND VAPOR BARRIER AT FIRE SEPARATION.
 - FIRE STOP BOTH SIDES OF WALL.
- 1.18 ESCUTCHEONS
- ON PIPES PASSING THROUGH WALLS, PARTITIONS, FLOORS AND CEILING IN FINISHED AREAS.
- 1.19 ACCESS DOORS
- SUPPLY ACCESS DOORS TO CONCEALED MECHANICAL EQUIPMENT FOR OPERATING, INSPECTING, ADJUSTING AND SERVICING.
 - MINIMUM 24" X 24" FOR BODY ENTRY
 - MINIMUM 12" X 12" FOR HAND ENTRY
 - DOOR FLUSH WITH FRAME.
- 1.20 DIELECTRIC COUPLINGS: WHERE PIPES OF DISSIMILAR METALS ARE JOINED.
- 1.21 SHOP DRAWINGS: PROVIDE 6 COPIES TO THE CONSULTANT.
- 1.22 START-UP REPORT: REPORTS TO SHOW MODEL NUMBER, SERIAL NUMBER, VOLTAGE AND RATED AMPERES.
- 1.23 OPERATING AND MAINTENANCE MANUAL: PROVIDE 3 COPIES CUSTOM DESIGNED AND CONTAIN MATERIAL PERTINENT TO THIS PROJECT ONLY AND TO PROVIDE FULL. INCLUDE A COPY OF FINAL SHOP DRAWING.
- 1.24 DEMONSTRATION AND OPERATING AND MAINTENANCE INSTRUCTIONS: SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, CONTROLLING, ADJUSTING, TROUBLE-SHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
- 2 PRODUCTS**
- 2.1 PIPE AND DUCT HANGERS
- MIDDLE ATTACHMENT (ROD) CADMIUM PLATED STEEL THREADED ROD.
 - ADJUSTABLE CLEVIS HANGER: TO MSS-599, TYPE 1, UL3 LISTED.
- 2.2 SYSTEM NAMEPLATES: LAMINATED PLASTIC OR WHITE ANODIZED ALUMINIUM, MATTE FINISH. SQUARE CORNERS, LETTERS ACCURATELY ALIGNED AND MACHINE ENGRAVED INTO CORE. MECHANICALLY FASTEN NAMEPLATES.
- 2.3 DUCTWORK - LOW PRESSURE METALLIC TO 500 PA
- SMACNA SEAL CLASS C. TRANSVERSE JOINTS AND CONNECTIONS MADE AIR TIGHT WITH GASKETS, SEALANT AND TAPE OR COMBINATION THEREOF. LONGITUDINAL SEAMS UNSEALED.
 - SEALANT: NON-FLAMMABLE, WATER BASE DUCT SEALANT. TEMPERATURE RANGE OF MINUS 30°C TO PLUS 45°C. FLAME SPREAD RATING OF NOT MORE THAN 25. SMOKE DEVELOPED CLASSIFICATION OF NOT MORE THAN 50.
 - FABRICATION: TO SMACNA.
 - RADIUS ELBOWS: RECTANGULAR. STANDARD RADIUS (CENTERLINE RADIUS) 1.5 TIMES WIDTH OF DUCT) OR SHORT RADII WITH SINGLE THICKNESS TURNING VANES. ROUND. SMOOTH RADII 5 OR 5 PIECE. CENTERLINE RADIUS IS 1.5 TIMES DIAMETER.
 - MITERED ELBOWS: RECTANGULAR. SINGLE THICKNESS TURNING VANES.
 - ROUND DUCTWORK: FACTORY FABRICATED CONDUIT CONSISTING HELICALLY WOUND GALVANIZED STEEL STRAPS WITH SPIRAL LOCK SEAMS. FOR CONCEALED BRANCH DUCTWORK UP TO 16" DIAMETER, LONGITUDINAL SEAMS.
 - GALVANIZED STEEL LOCK FORMING QUALITY: TO ASTM A653, Z90 ZINC COATING, SATIN COAT FOR ALL EXPOSED DUCTWORK OUTSIDE MECHANICAL ROOMS.
 - JOINTS: TO ASHRAE AND SMACNA AND/OR PROPRIETARY MANUFACTURED DUCT JOINT. ACCEPTABLE MATERIAL: FOR PROPRIETARY JOINTS: DUCTMATE CANADA LTD. OR EXANO NEXUS.
 - ALUMINIUM TO ASHRAE AND SMACNA. ALUMINIUM TYPE: 3003-H14
 - KITCHEN RANGE HOOD EXHAUST SYSTEMS: CONSTRUCT IN ACCORDANCE WITH NFPA 96.
- 2.5 ACCESS DOORS IN DUCTS
- NON-INSULATED DUCTS: SANDWICH CONSTRUCTION OF SAME MATERIAL AS DUCT, ONE SHEET METAL THICKNESS HEAVIER, MINIMUM 26 GA. THICK COMPLETE WITH SHEET METAL ANGLE FRAME.
 - INSULATED DUCTS: SANDWICH CONSTRUCTION OF SAME MATERIAL AS DUCT, ONE SHEET METAL THICKNESS HEAVIER, MINIMUM 26 GA. THICK COMPLETE WITH SHEET METAL ANGLE FRAME AND 1" THICK RIGID GLASS FIBER INSULATION.
 - HARDWARE FOR FRAMED: HINGED FOR ACCESS DOORS INTO INTAKE AND EXHAUST PLENUMS. SAFETY CHAIN EXCEPT FOR HINGED. LIFT OUT HANDLE FOR ACCESS DOORS 18" X 18" AND OVER.
- 2.6 BALANCING DAMPERS
- SINGLE BLADE DAMPERS: SAME MATERIAL AS DUCT, BUT ONE SHEET METAL THICKNESS HEAVIER. V-GROOVE STIFFENED. LOCKING QUADRANT. INSIDE AND OUTSIDE END BEARINGS.
 - MULTI-BLADED DAMPERS: FACTORY MANUFACTURED OF MATERIAL COMPATIBLE WITH DUCT. OPPOSED BLADE. BEARINGS: PIN IN BRONZE BUSHINGS. LINKAGE: SHAFT EXTENSION WITH LOCKING QUADRANT.
- 2.8 FIRE DAMPERS
- LISTED AND BEAR LABEL OF UL3 AND SHALL MEET REQUIREMENTS OF PROVINCIAL FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION.
 - INTEGRAL SLEEVE, MINIMUM 18 GA., MIN. 12" LONG, EXTEND MINIMUM 3" ON BOTH SIDES OF WALL. EXTEND MINIMUM 3" ABOVE AND BELOW FLOOR ASSEMBLY.
- 2.11 GRILLES AND DIFFUSERS
- PRODUCT OF ONE MANUFACTURER FOR GENERIC TYPE, I.E. GRILLES BY ONE, DIFFUSERS BY ONE, OR SAME.
 - PROVIDE STANDARD PRODUCT TO MEET CAPACITY, THROW, NOISE LEVEL, THROAT AND OUTLET VELOCITY.
 - FRAMES: STEEL. STANDARD WITH EXPOSED WELDED JOINTS AND MITERED CORNERS. ALUMINIUM: EXTRUDED WITH MECHANICAL FASTENERS AND MITERED CORNERS.
 - DIFFUSERS: SQUARE TYPE. PLASTER FRAME WHERE INSTALLED IN DRYWALL CEILING.
 - STANDARD OF ACCEPTANCE: E. I. PRICE AS PER DRAWINGS.
 - ACCEPTABLE MANUFACTURERS: TITUS NALOR INDUSTRIES OR TITUS
- 3 EXECUTION**
- 3.1 GENERAL
- IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- 3.2 PROTECTION OF OPENINGS: PROTECT EQUIPMENT AND SYSTEMS OPENINGS FROM DIRT, DUST, AND OTHER FOREIGN MATERIALS WITH MATERIALS APPROPRIATE TO SYSTEM.

- 3.3 TESTS
- GIVE 24 H WRITTEN NOTICE OF DATE FOR TESTS.
 - INSULATE OR CONCEAL WORK ONLY AFTER TESTING AND APPROVAL BY CONSULTANT.
 - CONDUCT TESTS IN PRESENCE OF CONSULTANT OR REPRESENTATIVE AUTHORIZED BY THE CONSULTANT.
 - BEAR COSTS INCLUDING RETESTING AND MAKING GOOD.
 - TEST SPRINKLER SYSTEM TO NFPA 13 AND AUTHORITIES HAVING JURISDICTION.
- 3.4 CEILING MOUNTED EQUIPMENT
- LOCATE CEILING SPACE MOUNTED EQUIPMENT (E.G. EXHAUST FANS, MOTORIZED DAMPERS) WITHIN 36" OF THE FINISHED CEILING FOR SAFE ACCESS.
- 3.5 PIPE HANGER SPACING: SPACING AND MIDDLE ATTACHMENT (ROD) DIAMETER AS SPECIFIED IN:
- SPRINKLER PIPING TO NFPA 13
 - WITHIN 12" OF EACH HORIZONTAL ELBOW.
 - RISERS AT EACH FLOOR
- 3.6 DUCTWORK PROTECTION AND CLEANING
- SEAL AND PROTECT OPEN ENDS OF DUCTWORK CONTINUOUSLY DURING CONSTRUCTION.
 - WASH DOWN INSIDE OF INTAKE DUCT AND PLENUM FROM LOUVER TO UNIT PRIOR TO STARTING UNITS.
- 3.8 ACCESS DOORS IN DUCTS:
- MINIMUM SIZE: 24" X 24" FOR PERSON SIZE ENTRY. 12" X 12" FOR SERVING ENTRY.
- 3.9 FIRE DAMPER INSTALLATION
- INSTALL FIRE DAMPERS IN ACCORDANCE WITH NATIONAL BUILDING CODE AND MANUFACTURERS RECOMMENDATIONS. MAINTAIN INTEGRITY OF FIRE WALL AND/OR FIRE SEPARATION.
- 3.11 WIRING INSTALLATION
- WIRING INSTALLATION: RUN IN CONDUIT WHERE INACCESSIBLE AREAS, AREAS OF HEAT ABOVE 80° C. MECHANICAL ROOM, ROOMS WHERE SUBJECT TO DAMAGE, AND IN ROOMS WITHOUT SPESIFIED CEILING. USE FT RATED CABLE WHERE CODE PERMITS AND IN LOCATION NOT REQUIRING CONDUIT.
 - CONTROL CIRCUIT WIRING 50 VOLTS AND LESS: THE INSTALLATION OF "SURFACE" WIRING ON WALLS OR IN OPEN (NON-ENCLOSED) TYPE CEILING SHALL ALWAYS BE IN EMT TYPE CONDUIT COMPLETE WITH ASSOCIATED "STEEL" TYPE CONNECTORS AND COUPLINGS. UNLESS SPECIFICALLY INDICATED OTHERWISE, LIQUID TIGHT METAL TYPE CONDUIT C/W MATCHING LIQUID TIGHT TYPE CONNECTORS ARE TO BE USED FOR "FINAL" CONNECTION BETWEEN END OF EMT CONDUIT AND APPLICABLE CONTROL DEVICE. EMT TYPE CONDUIT "WALL-STUB" COMPLETE WITH FLUSH INSTALLED DEVICE BOX SHALL BE LOCATED IN ALL CONCRETE, CONCRETE BLOCK OR AS INDICATED IN ALL OTHER PARTITIONS "OTHER THAN" THOSE TYPES CONSTRUCTED SOLELY OF DRY-WALL AND METAL TYPE STUDS. EMT CONNECTORS COMPLETE WITH NYLON INSULATED THROUGH TYPE BUSHING SHALL BE INSTALLED ON END OF EMT STUB WHERE IT PROTRUDES THROUGH WALL "ABOVE" AND WITHIN FINISH ACCESSIBLE TYPE CEILINGS. ALL EMT CONDUIT STUBS ARE TO BE "BONDED" TO GROUND AS REQUIRED BY CANADIAN ELECTRICAL CODE AND SECTION 16.133.
 - ALL CONTROL WIRING SHALL BE SUPPORTED INDEPENDENTLY AND NOT SECURED TO DUCTWORK, PIPING OR ELECTRICAL CONDUITS EXCEPT AT DROPS TO DUCT OR PIPE MOUNTED SENSORS OR ACTUATORS. SUPPORT WIRING EVERY 10" SECURELY ANCHOR TO STRUCTURE OR EQUIPMENT.
 - INSTALL WIRING IN MECHANICAL, ELECTRICAL OR SERVICE ROOMS EXPOSED. CONCEAL ALL OTHER WIRING.
- 3.12 TESTING, ADJUSTING AND BALANCING (TAB) OF MECHANICAL SYSTEMS
- ENGAGE THE SERVICES OF AN INDEPENDENT TAB AGENCY.
 - TAB MEANS TO TEST, ADJUST AND BALANCE TO PERFORM IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS AND TO DO ALL OTHER WORK AS SPECIFIED IN THIS SECTION.
 - TEST TO VERIFY PROPER AND SAFE OPERATION, DETERMINE ACTUAL POINT OF PERFORMANCE, EVALUATE QUALITATIVE AND QUANTITATIVE PERFORMANCE OF EQUIPMENT, SYSTEMS AND CONTROLS AT DESIGN, AVERAGE AND LOW LOADS USING ACTUAL OR SIMULATED LOADS
 - ADJUST AND REGULATE EQUIPMENT AND SYSTEMS SO AS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS AND TO ACHIEVE SPECIFIED INTERACTION WITH ALL OTHER RELATED SYSTEMS UNDER ALL NORMAL AND EMERGENCY LOADS AND OPERATING CONDITIONS.
 - BALANCE SYSTEMS AND EQUIPMENT TO REGULATE FLOW RATES TO MATCH LOAD REQUIREMENTS OVER FULL OPERATING RANGES. START TAB ONLY WHEN BUILDING IS ESSENTIALLY COMPLETED.
 - APPLICATION TOLERANCES: HVAC SYSTEMS: PLUS 10% MINUS 5%. HYDROBIC SYSTEMS: PLUS OR MINUS 10%.
 - DEFINITIONS: FOR PURPOSES OF THIS SECTION, TO INCLUDE LOW PRESSURE HOT WATER HEATING, CHILLED WATER, CONDENSED WATER, GLYCOL SYSTEMS.
 - STANDARD: TAB TO BE TO MOST STRINGENT OF TAB STANDARDS OF AIA/CES, NEBB, SMACNA AND ASHRAE.
 - TAB REPORT: FORMAT TO BE IN ACCORDANCE WITH REFERENCE STANDARD AND TO INCLUDE SYSTEM SCHEMATICS.
 - SUBMIT 3 COPIES OF TAB REPORT TO CONSULTANT FOR VERIFICATION AND APPROVAL, IN D, RING BINDERS, COMPLETE WITH INDEX TABS.
 - PERMANENTLY MARK ALL SETTINGS TO ALLOW RESTORATION AT ANY TIME DURING LIFE OF FACILITY. MARKINGS NOT TO BE ERADICATED OR COVERED IN ANY WAY.
 - ACCEPTABLE TAB AGENCIES: ATLANTIC INDOOR AIR QUALITY AUDIT CO., BARRINGTON AIR BALANCE SERVICE, GRIFFIN AIR BALANCE, SCOTIA AIR BALANCE LIMITED AND SYSTEM BALANCE LIMITED



1 PARTIAL LEVEL 1 FLOOR PLAN - SPRINKLER
 FP902 SCALE 1/4"=1'-0"

- SPRINKLER NOTES:**
1. SPRINKLER INSTALLATION TO MEET NFPA13 REQUIREMENTS.
 2. COORDINATE INSTALLATION WITH TEMPORARY HOARDING LAYOUT, ARCHITECTURAL AND STRUCTURAL.
 3. SPRINKLER PROTECTION TO BE MAINTAINED AT END OF EACH WORK SHIFT.
 4. ALL SPRINKLER PIPING INSTALLED TO ACCOMMODATE TEMPORARY HOARDING LAYOUT SHALL BE REMOVED AT COMPLETION OF PROJECT.

GENERAL NOTES

THIS DRAWING IS THE PROPERTY OF SP DUMARESQ ARCHITECT LTD. AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN APPROVAL. T

THE CONTRACTOR SHALL VERIFY ALL LEVELS AND DIMENSIONS ON SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE BEGINNING WORK.

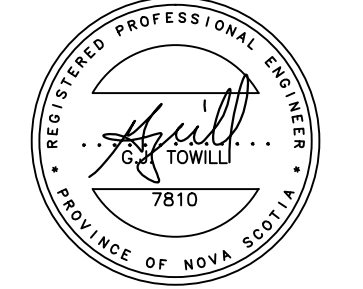
DO NOT SCALE DRAWING. USE FIGURED DIMENSIONS ONLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES MADE TO THE DRAWINGS WITHOUT THE ARCHITECT'S APPROVAL.

READ THIS DRAWING IN CONJUNCTION WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

If dimension does not measure 1" the drawing is not printed to scale.

DATE	#	ISSUE
11/09/15	1	FOR TENDER



SCALE AS INDICATED
 DRAWN BY STAFF
 CHECKED BY GJT
 REVIEWED BY
 APPROVED BY
 DATE NOVEMBER 10, 2015

PROJECT NAME
 ESCALATOR REMOVAL AND NEW STAIR CONSTRUCTION

PARTIAL FLOOR PLAN - SPRINKLER

FP902