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	Revision Description/Description Da   Client/client FISHERIES AND OCEANS REAL PROPERTY, SAFET   REAL PROPERTY, SAFET AND SECURITY
	VANCOUVER, BC 200-401 BURRARD ST.
	DFO HANGAR BUILDING WALKWAY AND ENTRY VESTIBULE
	Consultant Signature Box Only Designed by/Concept par JWG JWG
	Drawn by/Dessine par <b>GM</b> PWGSC Project Manager/Administrateur de Projets TPSGC  PWGSC, Regional Manager, Architectural and Engineering Services Gestionnaire régionale, Services d'architectural et de génie, TPSG
SHEET LISTSHEET NoSHEET NAME\$1.00STRUCTURAL 3D VIEWS\$1.01STRUCTURAL NOTES AND TYPICAL DETAILS\$2.01FRAMING PLANS AND ELEVATION\$3.01FRAMING ELEVATIONS\$5.01FOUNDATION AND STAIR DETAILS\$5.02VESTIBULE SECTIONS AND DETAILS	Trawing title/Titre du dessin STRUCTURAL 3D VIEWS
S5.03 STEEL SECTION AND DETAILS	Project No./No. du projet Sheet/Feuille Rev La Rév R.0000000.000 S1.00



#### GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS AND ALL FORCES ARE IN METRIC UNITS.
- "WSP-S" REFERS TO WSP CANADA STRUCTURAL CONSULTANT.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER CONSULTANTS. CONFIRM ALL DIMENSIONS, ELEVATIONS AND HEADROOM CLEARANCES, AND COORDINATE ALL OPENINGS, SLEEVES AND EMBEDDED ITEMS.
- REPORT ANY DISCREPANCIES OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION FROM WSP-S.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT
- CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION". DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- DO NOT SCALE THESE DRAWINGS.
- 10. ALL SECTIONS, DETAILS AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE / SIMILAR CONDITIONS IN THE STRUCTURE.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING, SEALERS, ETC. 11. 12. REFER TO GEOTECHNICAL REPORT AND ARCHITECTURAL / CIVIL DRAWINGS AND SPECIFICATIONS
- FOR ALL SOIL WORKS. DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR 13. WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT, INCLUDING TEMPORARY SHORING, BRACING, GUYS AND TIE DOWNS. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.
- EXTENT OF ALL TEMPORARY SHORING FOR EXCAVATION WHICH MAY BE REQUIRED IS NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS, CONTRACTOR TO DETERMINE. REFER TO SPECIFICATIONS FOR TEMPORARY SHORING REQUIREMENTS. DESIGN AND CONSTRUCTION REVIEW OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED.
- FOR INSPECTION AND TESTING REQUIREMENTS, REFER TO SPECIFICATIONS.
- IN CASE OF DISCREPANCY BETWEEN GENERAL NOTES, DRAWINGS AND SPECIFICATIONS, COMPLY 16 WITH THE MOST STRINGENT REQUIREMENTS.

#### **DESIGN DATA**

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE OF CANADA SUPPLEMENTED BY THE USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES.
- CONCRETE ELEMENTS ARE DESIGNED PER CSA A23.3-14 DESIGN OF CONCRETE STRUCTURES.
- STEEL ELEMENTS ARE DESIGNED PER CSA S16-14 LIMIT STATE DESIGN OF STEEL STRUCTURES.
- SAWN LUMBER AND GLUE LAMINATED LUMBER STRUCTURAL ELEMENTS ARE DESIGNED PER CSA 086-14- ENGINEERING DESIGN IN WOOD.
- THE VALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN OBTAINED FROM THE 2015 NBC FOR THE SPECIFIC LOCATION OF SIDNEY & NORTH SAANICH, BRITISH COLUMBIA.
- BASED ON THE USE AND OCCUPANCY, THE STRUCTURE IS DESIGNED TO THE REQUIREMENTS OF A NORMAL IMPORTANCE CATEGORY.
- SELF WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE STRUCTURAL SYSTEM, AND INCLUDES CONCRETE TOPPINGS ON STEEL DECK.
- DEAD LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD. UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED)
- LOADS, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN, THESE LOADS CAN BE REDUCED BY MULTIPLYING WITH THE RATIO OF APPROPRIATE IMPORTANCE FACTORS Ix(SLS) / Ix(ULS) GIVEN BELOW.
- SNOW (NORTH SAANICH): 10. ls (ULS) = 1.0 Ss = 2.0 kPa Sr = 0.3 kPa ls (SLS) = 0.9
- MINIMUM UNFACTORED SNOW LOAD = 1.1 kPa x ls LATERAL LOADS IN THIS STRUCTURE ARE RESISTED BY BRACED FRAMES & CANTILEVER COLUMNS 11 FIXED AT BASE, AND ARE DETERMINED BASED ON THE WIND AND SEISMIC DATA BELOW.
- 12. WIND:
- g50 = 0.42 kPa Iw (ULS) = 1.0 Iw (SLS) = 0.75 TERRAIN TYPE: OPEN 13. SEISMIC (SIDNEY) Sa(0.2) = 1.23 PGA = 0.545 Sa(0.5) = 1.10 Rd = 1.5 Sa(1.0) = 0.63 Ro = 1.3 SITE CLASSIFICATION = D [TO BE CONFIRMED]
  - Sa(2.0) = 0.37 le = 1.0 Sa(5.0) = 0.12 Sa(10.0) = 0.04

#### FIELD REVIEW

- WSP-S WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE WSP-S A GUARANTOR OF THE CONTRACTOR'S WORK.
- CONSTRUCTION REVIEW REPORTS WILL OUTLINE ANY DEFICIENCIES FOUND.
- ASSIST WSP-S DURING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED
- CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS. BRING TO THE ATTENTION OF WSP-S ANY DEFICIENCIES FOUND IN THE WORK TOGETHER WITH A

PROPOSAL FOR REMEDY. WSP-S WILL DECIDE WHAT CORRECTIVE ACTION MAY BE TAKEN AND ISSUE THE NECESSARY INSTRUCTIONS. PROVIDE REASONABLE NOTICE (NOT LESS THAN 24 HOURS) TO ALLOW FOR THE FIELD REVIEW OF

TH	E FOLLOWING:	,
a.	CONCRETE WALLS, BEAMS	BEFORE CLOSING FORMSAND
b.	ALL OTHER CONCRETE	BEFORE EACH CONCRETE PC
C.	STRUCTURAL STEEL	BEFORE COVERING UP OR PL
d.	METAL FLOOR DECK	BEFORE PLACING CONCRETE
е	METAL ROOF DECK	BEFORE ROOFING

BEFORE CLOSING FORMSAND COLUMNS
BEFORE EACH CONCRETE POUR
BEFORE COVERING UP OR PLACING STEEL DECK
BEFORE PLACING CONCRETE
BEFORE ROOFING
BEFORE COVERING UP

#### FOUNDATIONS

WOOD FRAMING

1.	FOUNDATIONS ARE TO BE SUPPORTED BY UNDISTURBED GROUND. BEARING SURFACES ARE TO BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO FOOTING CONCRETE BEING PLACED.
2.	ASSUMED FOOTING BEARING RESISTANCE: 150 kPa AT ULS (ULTIMATE LIMIT STATES DESIGN) 100 kPa AT SLS (SERVICEABILITY LIMIT STATES DESIGN)

- GEOTECHNICAL ENGINEER TO CONFIRM BEARING CAPACITY UPON EXCAVATION.
- CONSTRUCT ALL FOOTINGS ON STRATA CAPABLE TO PROVIDE THE BEARING RESISTANCE NOTED. BUT NOT ABOVE THE ELEVATIONS INDICATED ON DRAWINGS.
- IF THE ASSUMED BEARING RESISTANCE IS NOT OBTAINED AT THE UNDERSIDE OF FOOTING ELEVATION INDICATED ON DRAWINGS, EXTEND EXCAVATION UNTIL COMPETENT SOIL IS REACHED, AND PROVIDE LEAN CONCRETE FILL (OR CONCRETE SAME AS SPECIFIED FOR THE FOOTING) TO UNDERSIDE OF FOOTING. DO NOT DROP DOWELS; MAINTAIN THE SPECIFIED PROJECTION REQUIRED FOR LAPS.
- FOR FROST PROTECTION, MINIMUM DISTANCE FROM FINISHED GRADE TO UNDERSIDE OF FOOTINGS, 457mm (18").
- UNLESS OTHERWISE NOTED, CENTRE FOOTINGS, PIERS, PILES AND PILE CAPS UNDER CENTROID OF COLUMNS. WHERE THERE ARE NO COLUMNS ABOVE, CENTER UNDER WALLS OR GRADE BEAMS.
- LOCATE ALL EXISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION. THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS FOR FOOTINGS OR TRENCHES NOT TO
- EXCEED A RISE OF 1 IN A RUN OF 2.
- KEEP EXCAVATION DRAINED AND FREE OF WATER AT ALL TIMES.

PROTECT FOOTINGS,	GRADE BEAMS, F
AGAINST FREEZING A	ND FROST ACTION
CONCRETE AGAINST F	ROZEN EARTH.

- 11. POSITION
- CONCRETE HAS REACHED 75% OF ITS DESIGN STRENGTH.
- 13. THE OTHER.

### CAST-IN-PLACE CONCRETE

NOMINAL MAXIMUM SIZE OF COARSE A
UNLESS NOTED OTHERWISE, CONCRET

- ELEMENT **RETAINING WALLS & PIERS** EXTERIOR SLAB ON GRADE SLABS ON STEEL DECK TYPES TO MEET THE REQUIREMENTS FOR THE NOTED EXPOSURE CLASS. DO NOT ADD WATER TO CONCRETE ON SITE. CONSOLIDATE CONCRETE USING MECHANICAL VIBRATORS. ALL CONCRETE. COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1. PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1. COLUMNS DO NOT PLACE RECESSED BOXES IN CONCRETE COLUMNS WITHOUT PRIOR APPROVAL FROM STRUCTURAL CONSULTANT.
- UPPER COLUMNS ARE CENTRED ON COLUMNS BELOW UNLESS NOTED OTHERWISE

3.

4

7

10.

11

- CONCRETE REINFORCEMENT REINFORCEMENT TO CONFORM TO CSA G30.18, GRADE 400R. CLASS B LAPS. FOR LAP LENGTHS AND DEVELOPMENT LENGTHS, REFER TO TYPICAL DETAILS TC-REINF-01. ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH. UNLESS A SPECIFIC STIRRUP SHAPE IS INDICATED ON PLANS OR SCHEDULES, ALL STIRRUPS TO BE CLOSED HOOPS. NUMBER OF STIRRUPS DENOTES THE NUMBER OF FULL STIRRUPS, EACH HAVING TWOLEGS WHERE TWO BARS OF DIFFERENT SIZE ARE LAPPED IN TENSION, SPLICE LENGTH TO BE EQUAL TO THE SMALLER BAR'S TENSION LAP SPLICE, OR TO THE LARGER BAR'S TENSION DEVELOPMENT LENGTH, WHICHEVER IS LONGER. PROVIDE ADDITIONAL SUPPORT BARS AS REQUIRED TO ADEQUATELY SUPPORT AND SECURE ALL REINFORCEMENT AND PREVENT MOVEMENT WHEN PLACING CONCRETE. PROVIDE SUFFICIENT CHAIRS TO REINFORCING TO MAINTAIN SPECIFIED CONCRETE COVER. ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY. MINIMUM CLEAR SPACING BETWEEN ADJACENT BARS TO BE AT LEAST 1.4 TIMES THE BAR DIAMETER OR 1.4 TIMES THE NOMINAL MAXIMUM SIZE OF THE COARSE AGGREGATE, WHICHEVER IS MORE. WHERE PARALLEL REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, POSITION BARS IN UPPER LAYER DIRECTLY ABOVE THE BARS IN LOWER LAYER, MAINTAINING THE MINIMUM CLEAR SPACING BETWEEN LAYERS AS SPECIFIED ABOVE. CONCRETE PROTECTION ON PRINCIPAL REINFORCING SHALL BE AS FOLLOWS: SURFACES PLACED IN CONTACT WITH GROUND: FORMED SURFACES EXPOSE SUSPENDED SLABS AND SLAB BEAMS AND COLUMNS: COLUMN TIES AND BEAM STI REFER TO TYPICAL DETAIL TC-WALL-01 FOR REINFORCING REQUIRED AT WALL CORNERS AND INTERSERCTIONS. STRUCTURAL STEEL
- CONFORM TO CSA S16. W, WWF AND S SECTIONS, CHANNELS AND ANGLES:

PLATES, BARS: 300W HOLLOW STRUCTURAL SECTIONS: 350W (CLASS 'C" OR "H'), ASTM A1085 GRADE 50 (345 MPa ASTM F3125 GRADE A325M, UNLESS NOTED BOLTS:

- ANCHOR RODS:
- DETAILS ON STRUCTURAL DRAWINGS SHOW DESIGN INTENT. REFER TO SPECIFICATIONS FOR CONNECTION DESIGN, DETAILING, FABRICATION, AND ERECTION REQUIREMENTS
- SECTION IN BENDING.
- DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE. DURING CONSTRUCTION.
- DO NOT APPLY LATERAL LOADS TO MEMBERS UNLESS APPROVED BY THE CONSULTANT 8.

## **ROOF & FLOOR DECK ASSEMBLIES**

- REINFORCEMENT NOTES.
- STEEL DECK MATERIAL: TO ASTM A653/653M OR ASTM A792/792M, GRADE 230.
- 3.
- SPECIFICATIONS.

#### OUNDATION WALLS, SLABS-ON-GRADE AND ADJACENT SOIL ON AT ALL TIMES DURING CONSTRUCTION. DO NOT POUR

PLACE ANCHOR RODS AND DOWELS BEFORE CONCRETE IS CAST. USE TEMPLATES TO KEEP IN

#### DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL ELEMENTS PROVIDING LATERAL SUPPORT, INCLUDING SLAB ON GRADE AND ALL SUSPENDED LEVELS, ARE COMPLETED AND

FOR ELEMENTS THAT ARE TO BE BACKFILLED ON BOTH SIDES, PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES SUCH THAT HEIGHTS DO NOT VARY BY MORE THAN 600 (2'-0") FROM ONE SIDE TO

GGREGATE TO BE 20 (3/4") UNLESS NOTED OTHERWISE.

E TO BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:			
COMPRESSIVE STRENGTH (MPa) AT 28 DAYS (SEE NOTE #3 BELOW)	EXPOSURE CLASS	SPECIAL REQUIREMENTS & REMARKS	
25	F2	REFER TO NOTE 3	
35	C1	REFER TO NOTE 3	
35	C1	REFER TO NOTE 3	

C1 REFER TO NOTE 3

#### REFER TO CSA A23.1 FOR THE MAXIMUM WATER/CEMENT RATIO. MINIMUM COMPRESSIVE STRENGTH. AIR CONTENT, CURING REQUIREMENTS, CHLORIDE ION PENETRABILITY AND ALTERNATE CEMENT

#### CONVEY CONCRETE FROM TRUCK TO FINAL LOCATION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIAL. MAXIMUM FREE FALL NOT TO EXCEED 1.5m (5'-0").

PLACE CONCRETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE

## PROTECT CONCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE

WHERE APPLICABLE, COLUMN OFFSETS FROM GRIDLINES ARE NOTED ON DRAWINGS.

BARS MARKED CONTINUOUS TO BE TERMINATED IN STANDARD HOOKS AT ENDS AND SPLICED USING

ACT WITH GROUND.	75000 [5]
D TO GROUND OR WEATHER:	50mm [2"]
BBANDS:	25mm [1"]
	50mm [2"]
RRUPS:	40mm [1 1/2"]

MATERIALS: TO CSA G40.21 UNLESS OTHERWISE NOTED, WITH THE FOLLOWING GRADES.

350V

ASTM F1554 GRADE 36

CONNECT BEAMS FOR THE FORCES SHOWN; IF NO FORCE/CONNECTION IS INDICATED, CONNECT NON COMPOSITE BEAMS FOR THE REACTION DUE TO MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE BEAM IN BENDING, AND CONNECT COMPOSITE BEAMS FOR ONE AND A HALF TIMES THE

REACTION DUE TO MAXIMUM UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE NON COMPOSITE

PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE STRUCTURE STABLE AND IN ALIGNMENT

PROVIDE 40 MPa NON SHRINK GROUT UNDER BASE PLATES. DO NOT APPLY ANY LOADS TO THE STEELWORK BEFORE GROUT ACHIEVES SUFFICIENT STRENGTH.

AESS MEMBERS: ERECT USING SOFTENED SLINGS OR OTHER METHODS SUCH THAT THEY ARE NOT DAMAGED. PROVIDE PADDING AS REQUIRED TO PROTECT WHILE RIGGING AND ALIGNING. WELD TABS FOR TEMPORARY BRACINGS AND SAFETY CABLING ONLY AT POINTS CONCEALED FROM VIEW IN THE COMPLETE STRUCTURE OR WHERE APPROVED BY WSP-S.

CONFORM TO CSA S136 FOR STEEL DECKING, AND TO CAST IN PLACE CONCRETE AND CONCRETE

REQUIRED DECK DEPTH AND CORE NOMINAL THICKNESS ARE SHOWN ON DRAWINGS; PROVIDE DECK PROFILE TO MEET THE LOADING AND PERFORMANCE REQUIREMENTS OUTLINED IN THE

USE ONLY MECHANICAL ROOF DECK FASTENERS. DO NOT USE WELDING OR CLINCHING. UNLESS OTHERWISE NOTED, DECK WITH CONCRETE TOPPING TO BE A COMPOSITE PROFILE.

- REFER TO PLANS FOR COVER SLAB THICKNESS. TOTAL SLAB THICKNESS IS EQUAL TO COVER SLAB THICKNESS PLUS DECK DEPTH.
- CONNECT DECK WITH PINS ALONG SUPPORT MEMBERS IN A 36/7 PATTERN OR AT 150MM OC.
- SIDELAPS SHALL HAVE SELF-TAPPING SCREWS AT 150MM OC PRIOR TO CONCRETE PLACEMENT, STEEL DECK TO BE FREE OF SOIL, DEBRIS, STANDING WATER,

#### WOOD FRAMING

LOSE MIL SCALE, AND OTHER FOREIGN MATTER.

6

7.

- CONFORM TO CSA 086
- MATERIALS:

-LUMBER: GRADE MARKED TO CONFORM TO CSA 0141; KILN DRIED; SPF NO. 2 OR BETTER; MOISTURE CONTENT NOT TO EXCEED 19% AT TIME OF MANUFACTURE AND INSTALLATION; UNLESS NOTED OTHERWISE.

- -WOOD BOLTS: ASTM A307
- -LAG/WOOD SCREWS: ANSI/ASME B18.12.1. MACHINE THREADED (NOT CAST-THREADED). PREDRILL PRIOR TO LAG SCREW INSTALLATIONS.
- UNLESS NOTED OTHERWISE, ALL WOOD FRAMING DETAILS TO BE IN ACCORDANCE WITH PART 9 OF THE REFERENCED BUILDING CODE INCLUDING PLYWOOD ROOF FRAMING AND ROOF FRAMING.
- PROTECT ALL WOOD PRODUCTS FROM THE ELEMENTS AS REQUIRED TO MAINTAIN THEIR INTEGRITY























PWGSC - B1 - 1000X707







![](_page_4_Figure_6.jpeg)

![](_page_4_Figure_7.jpeg)

/-- GRADE

— 8-25M VERTS

- 10M TIES @ 300

![](_page_4_Figure_9.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_5_Figure_2.jpeg)

5 EXISTING AT FLOOR S5.02 1:10

![](_page_5_Figure_6.jpeg)

![](_page_5_Figure_7.jpeg)

![](_page_5_Figure_8.jpeg)

![](_page_5_Figure_9.jpeg)

6 TYPICAL CURTAIN WALL S5.02 SUPPORT AT BOTTOM

![](_page_5_Figure_11.jpeg)

![](_page_5_Figure_13.jpeg)

4 SHELF ANGLE CONNECTION S5.02 1:10

![](_page_5_Figure_15.jpeg)

# 2 VESTIBULE TO STAIR TRANSITION S5.02 1:10

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	JOB Manuelle S. W.	No.: 171-1	6182-00
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