



4 TYPICAL CONSTRUCTION JOINT AT EXTERIOR WALL  
D2100 Scale: 1 : 20



CLIENT

CITY OF TORONTO

 **Toronto**

Corporate Real Estate Management  
Project Management Office  
Metro Hall Toronto, ON  
M5V 3C6

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ISSUES		
No.	DESCRIPTION	DATE
A	50% SUBMISSION	2021-09-23
B	90% SUBMISSION	2022-01-04
C	ISSUED FOR PERMIT	2022-01-04
D	ISSUED FOR TENDER	2022-11-01

CONSULTANTS

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PRIME CONSULTANT



PROJECT TITLE  
CITY OF TORONTO  
ACCESSIBILITY UPGRADES

PROJECT ADDRESS

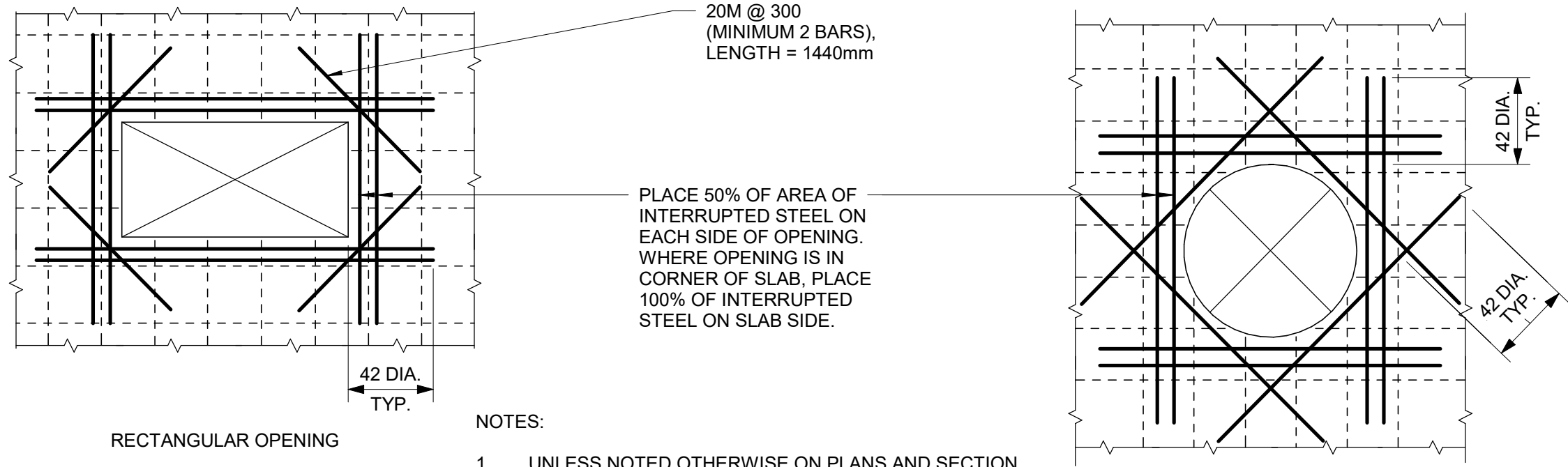
PROJECT NO:  
9119- 19- 0162 / IBI 122260

DRAWN BY: G. POULOU	CHECKED BY: T. MYSOREWALA
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PROJECT MGR: F.BOLOURIAN	APPROVED BY: K. ANGER
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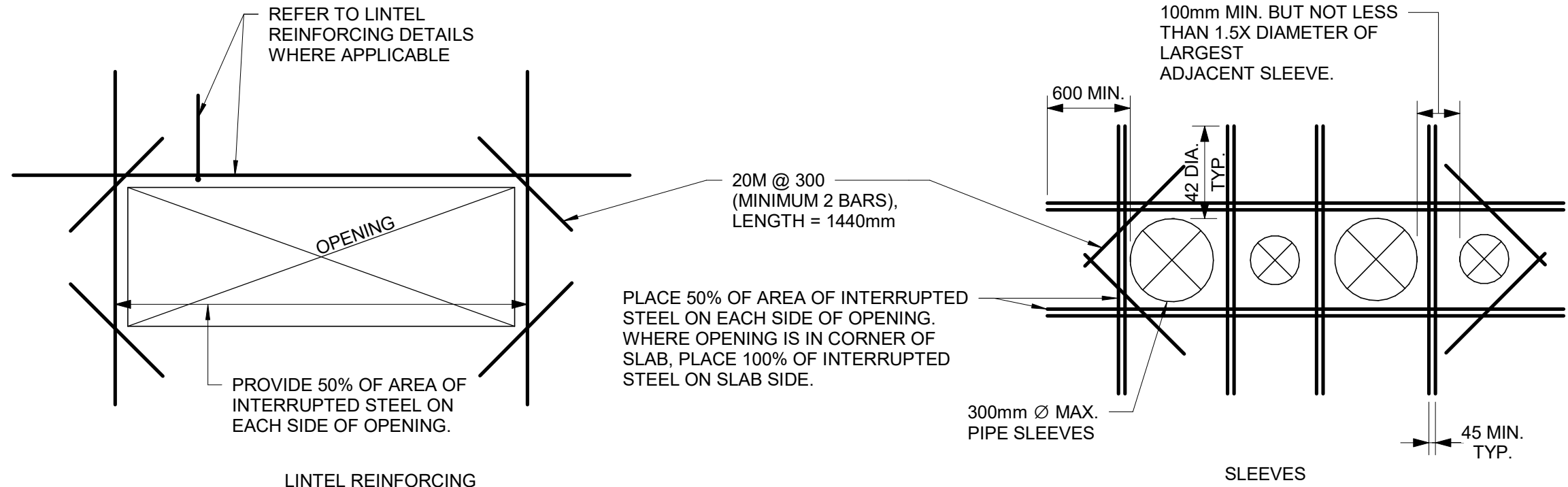
SHEET TITLE  
CONCRETE TYPICAL  
DETAILS - 1

SHEET NUMBER	ISSUE
D2100	D



NOTES:

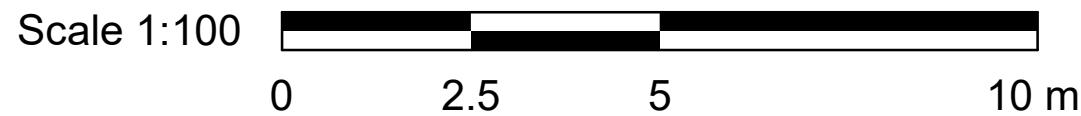
1. UNLESS NOTED OTHERWISE ON PLANS AND SECTION, REINFORCE AROUND OPENINGS AS SHOWN.
2. DO NOT MAKE OPENINGS LARGER THAN THE MAXIMUM DIMENSIONS NOTED BELOW WITHOUT PRIOR REVIEW FROM THE ENGINEER OF RECORD, UNLESS NOTED ON STRUCTURAL DRAWINGS.
3. MAXIMUM SLAB OPENING SIZE IS 2500mm SQUARE OR ROUND U/N ON DRAWINGS. THIS DETAIL APPLIES FOR OPENINGS WITH A DIMENSION GREATER THAN 150mm.
4. THIS DETAIL ALSO APPLIES AT PIPE OPENINGS.



LINTEL REINFORCING  
(FOR DOOR/LOUVRE OPENINGS W/ SPAN > 2500mm)

\* UNLESS OTHERWISE DETAILED ON PLANS OR SECTIONS

1 ADD'L REINF. TO OPENINGS IN CONC. WALLS AND SLABS  
D2102 Scale: 1 : 20



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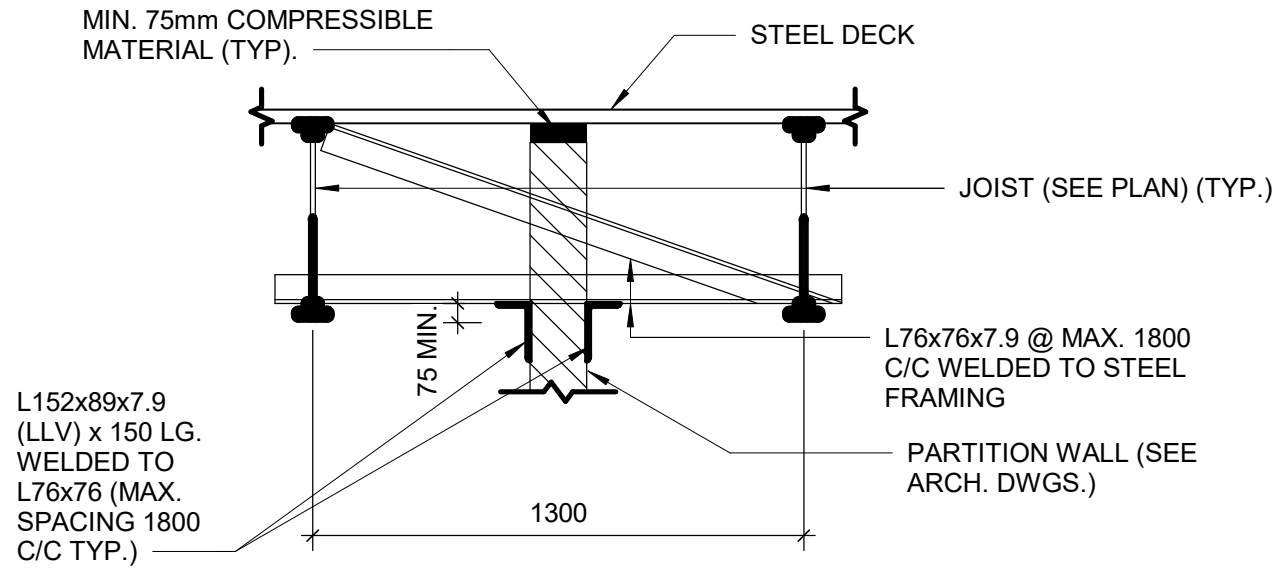
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PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>K. ANGER</b>

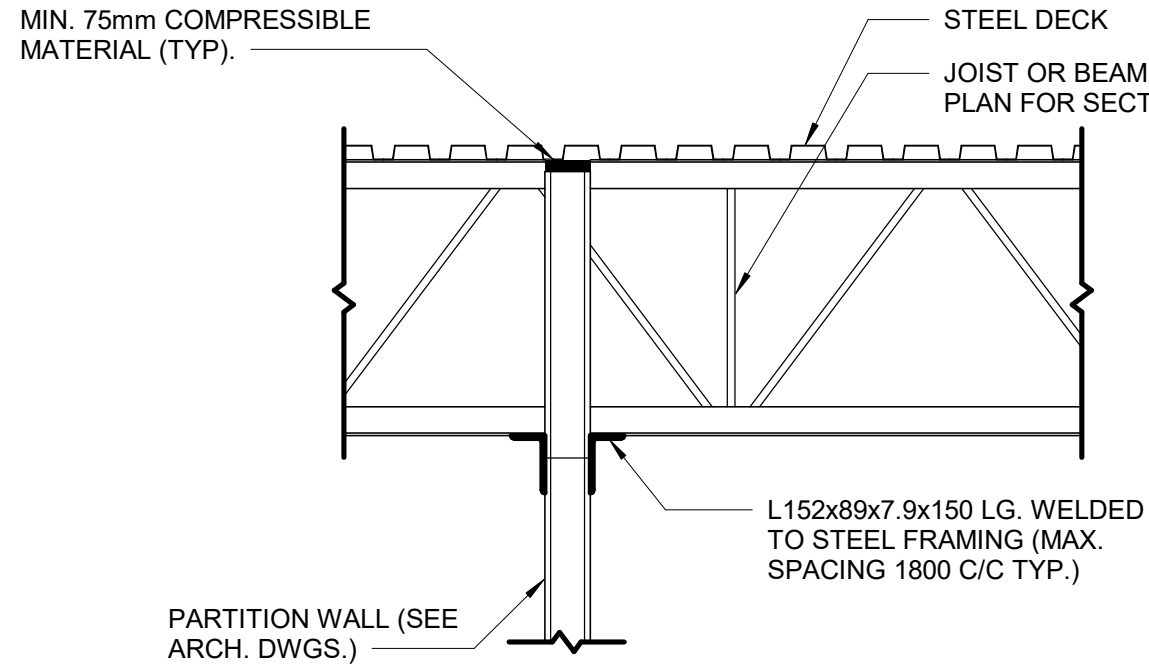
SHEET TITLE  
**CONCRETE TYPICAL  
DETAILS - 2**

SHEET NUMBER <b>D2102</b>	ISSUE <b>D</b>
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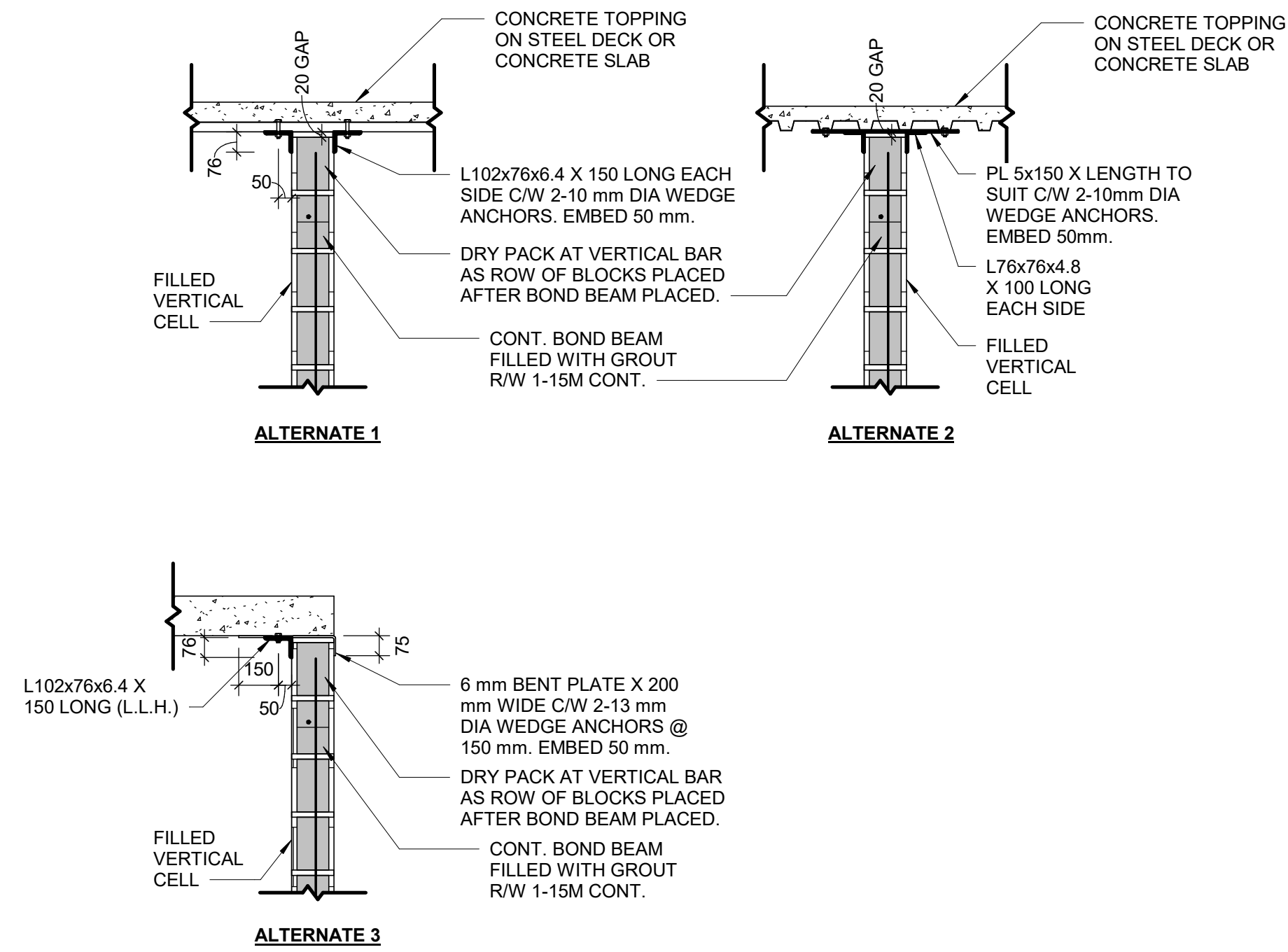
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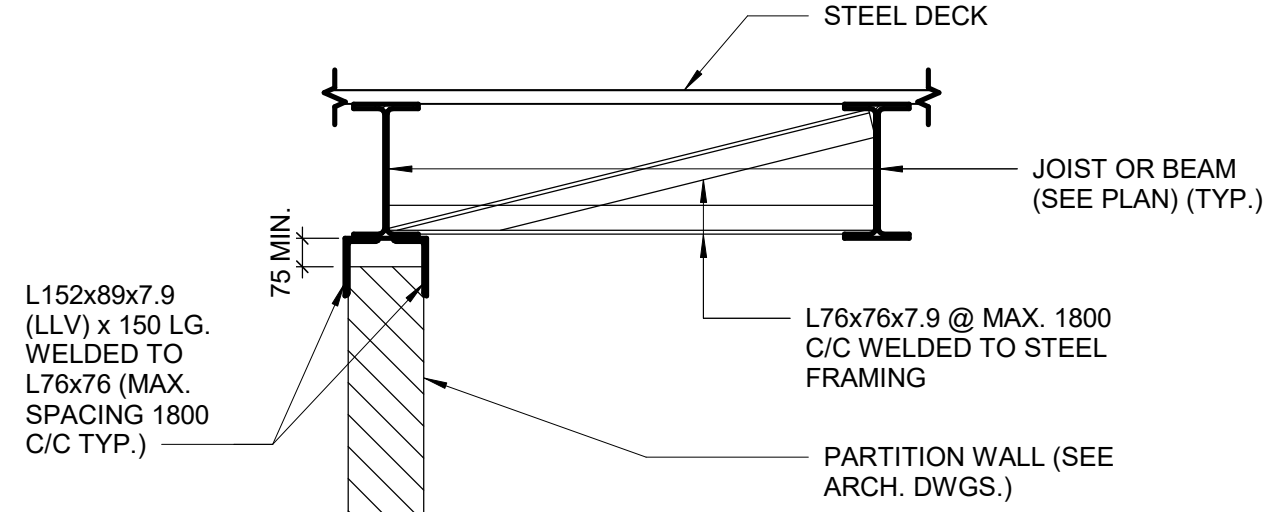
1 PARTITION WALL BETWEEN JOIST  
D2200 Scale: 1 : 20



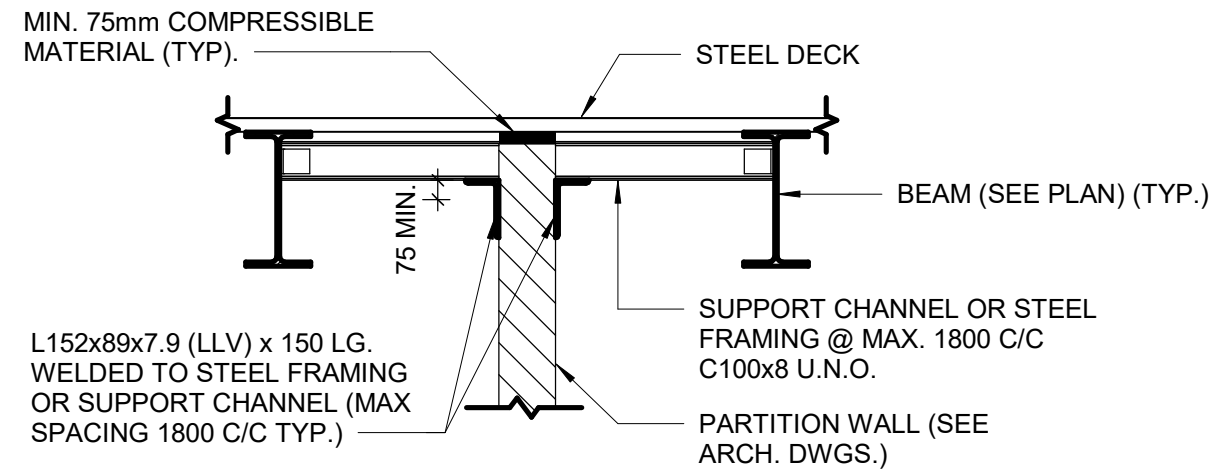
4 PARTITION WALL PERPENDICULAR TO JOIST OR BEAM  
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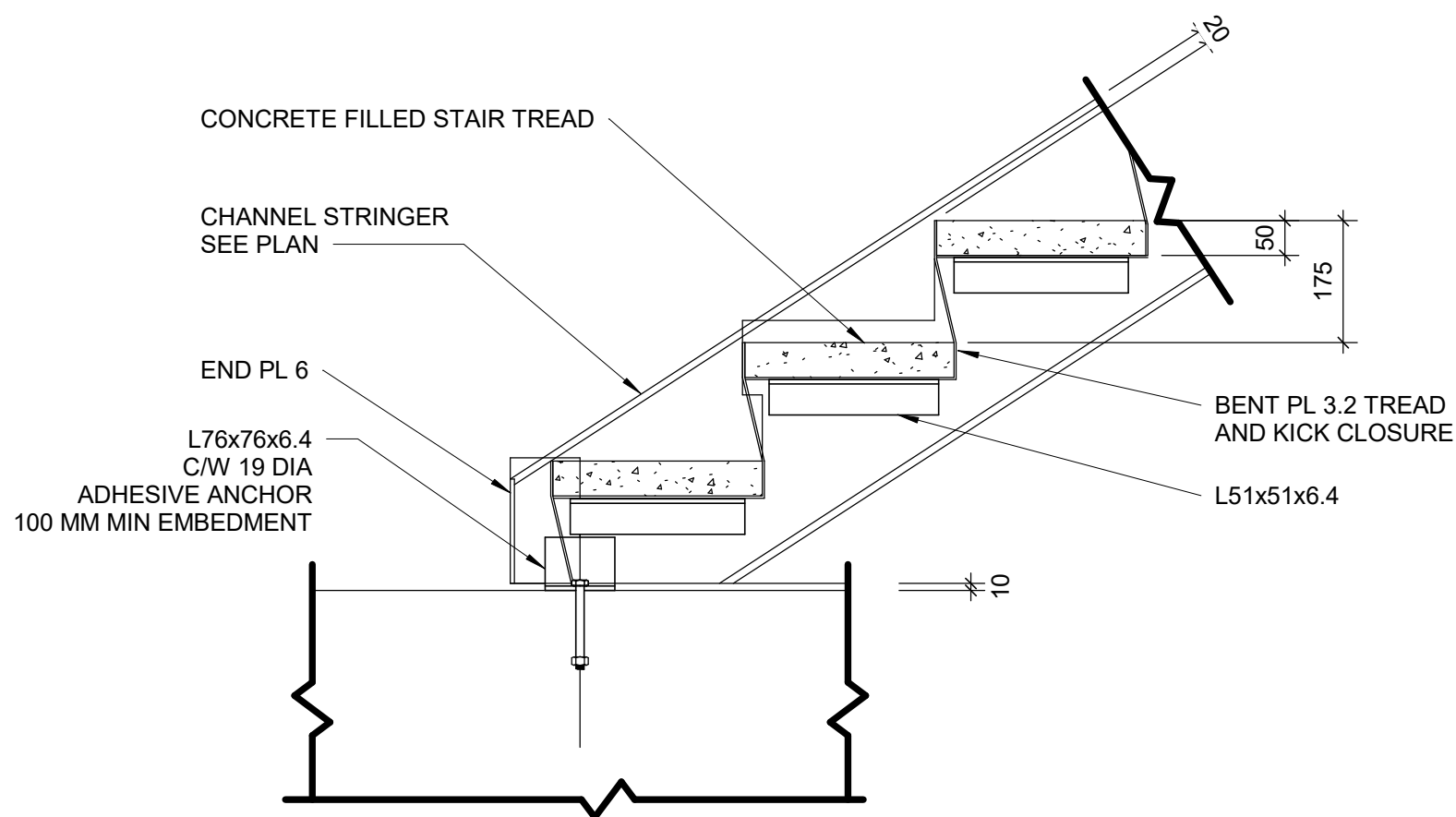
7 SUPPORT DETAIL AT TOP OF BLOCK WALL  
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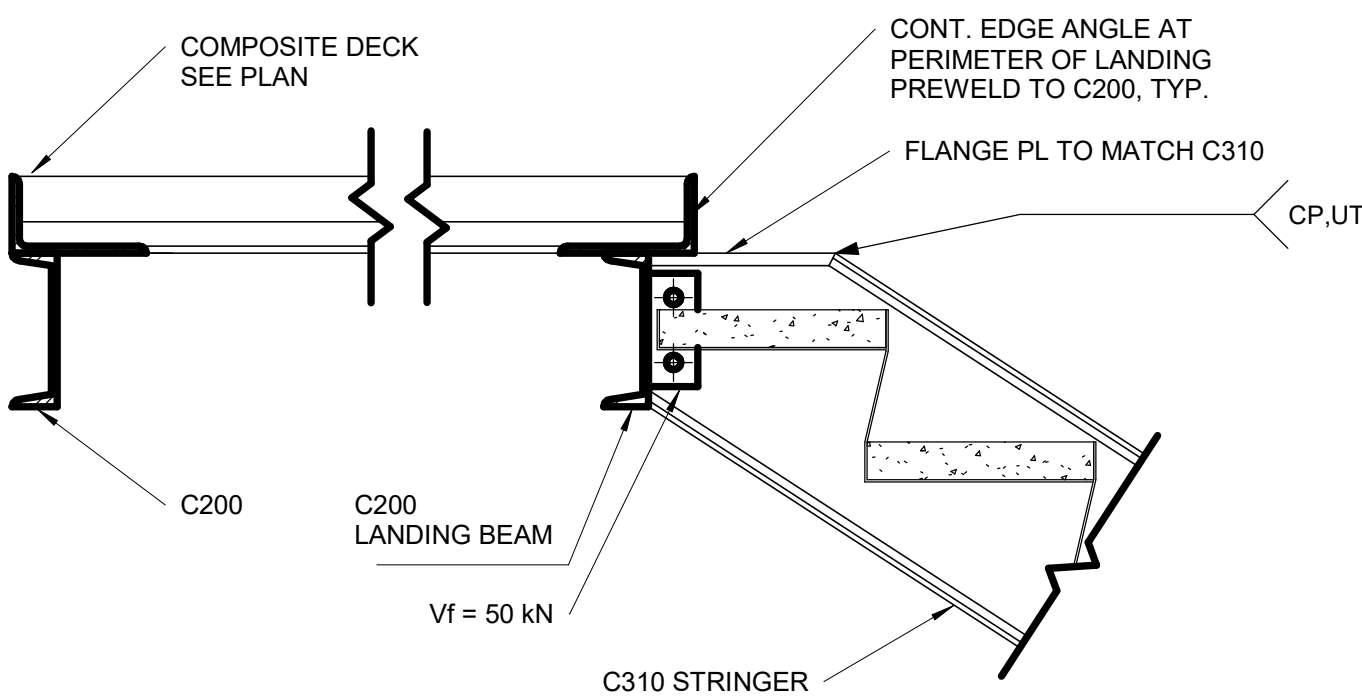
2 PARTITION WALL PARALLEL TO AND CENTERED ON JOIST OR BEAM  
D2200 Scale: 1 : 20



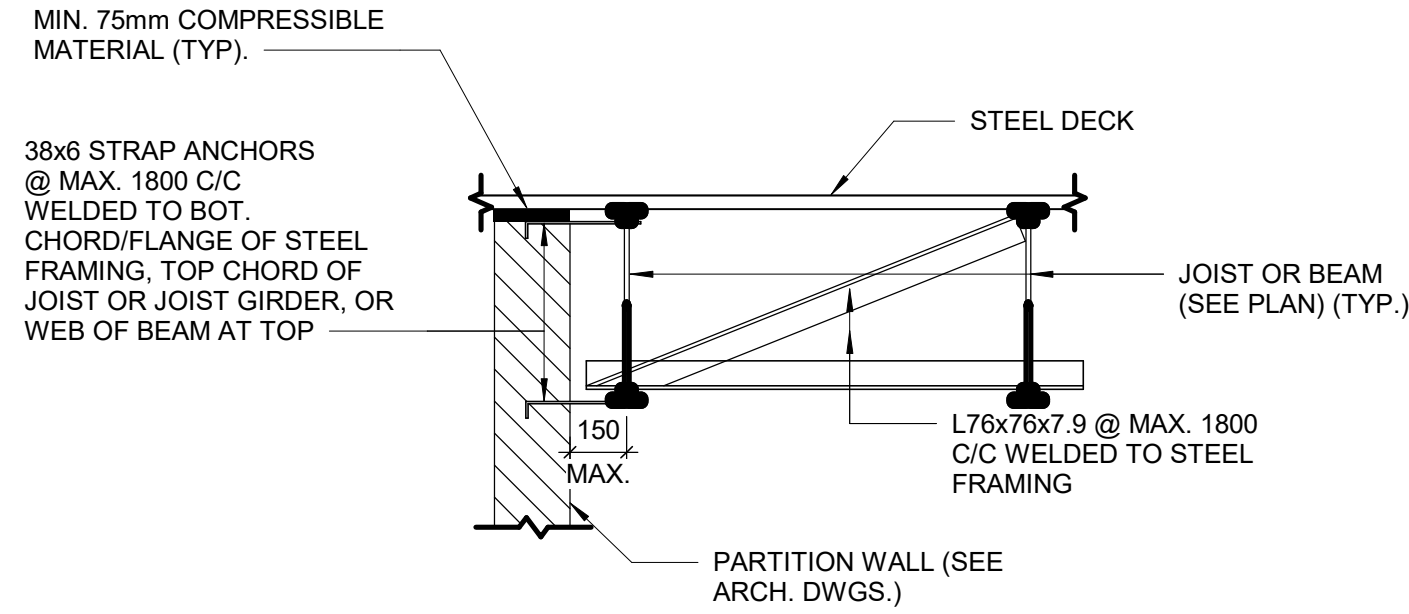
5 PARTITION WALL BETWEEN BEAMS  
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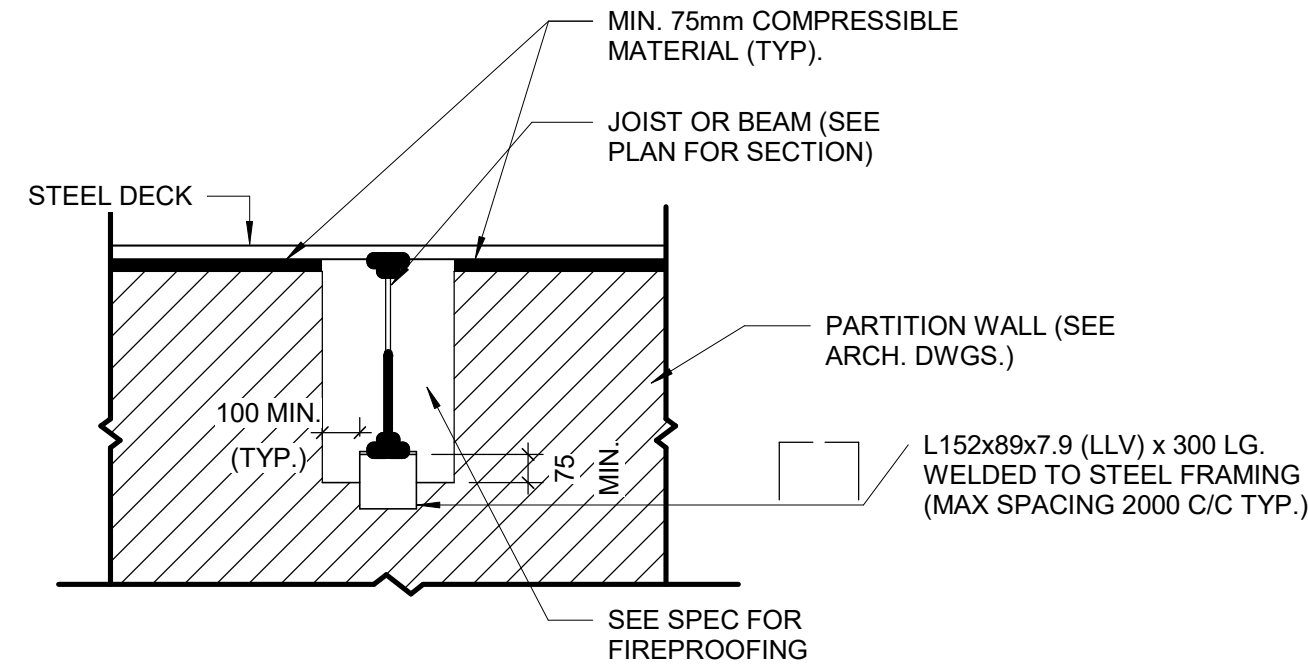
8 TYPICAL SLAB UNDER STRINGER  
D2200 Scale: 1 : 10



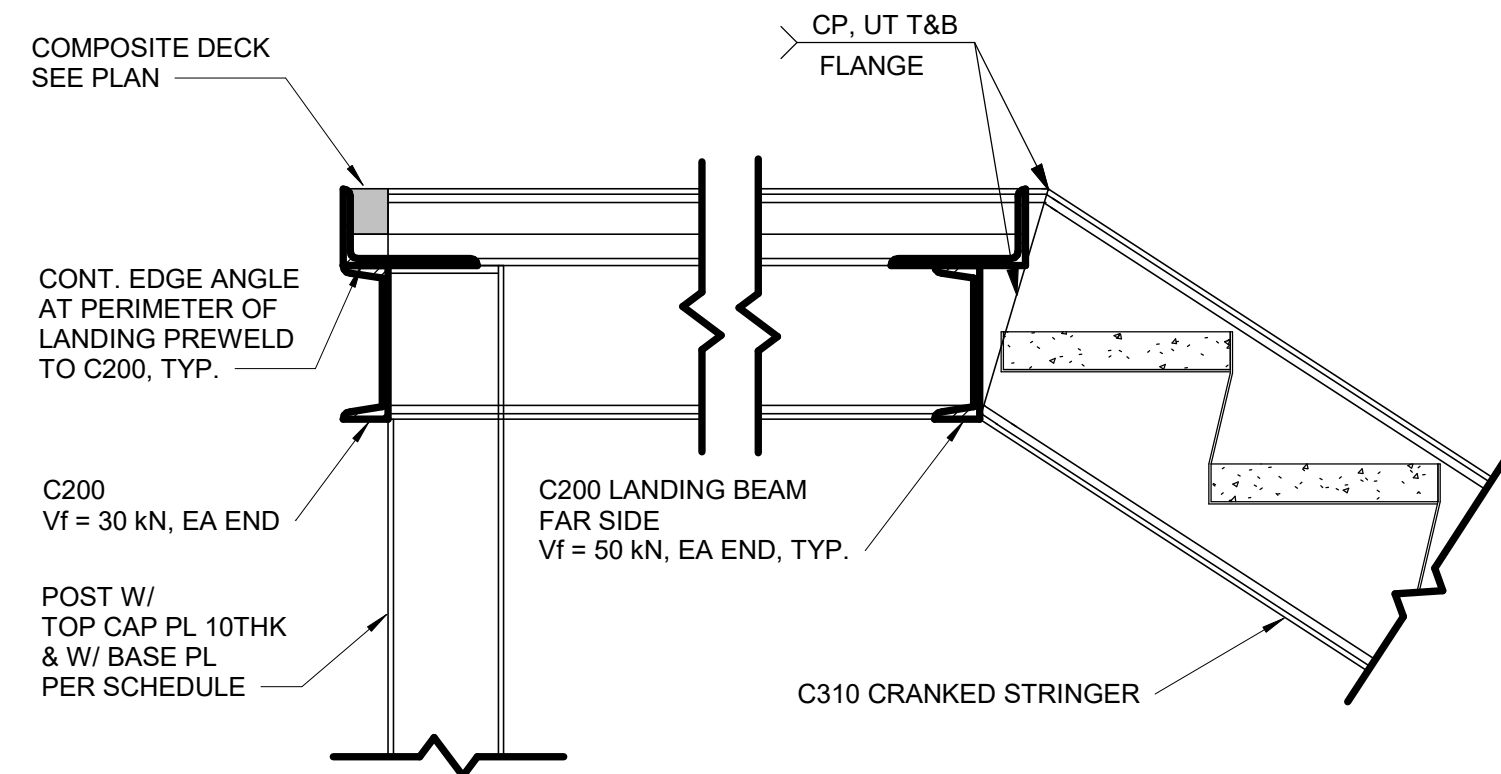
10 TYPICAL SECTION AT UPPER LANDING  
D2200 Scale: 1 : 10



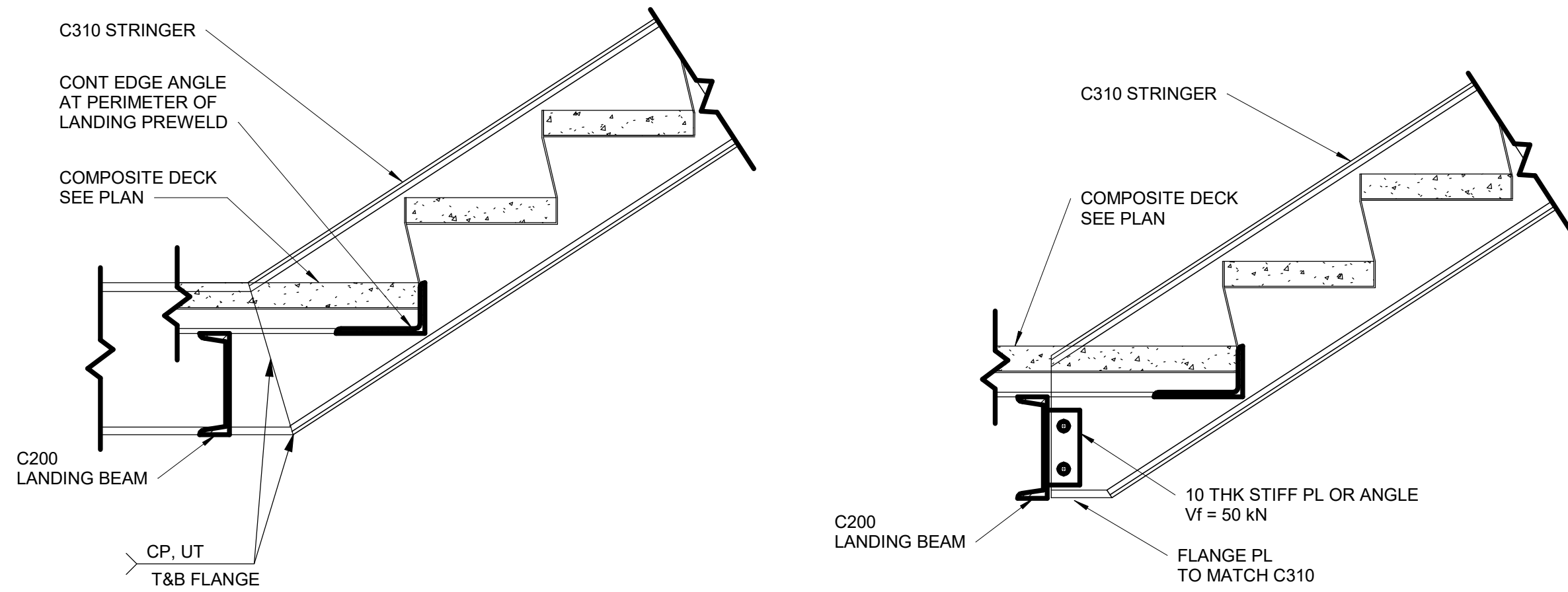
3 PARTITION WALL PARALLEL TO JOISTS OR BEAM  
D2200 Scale: 1 : 20



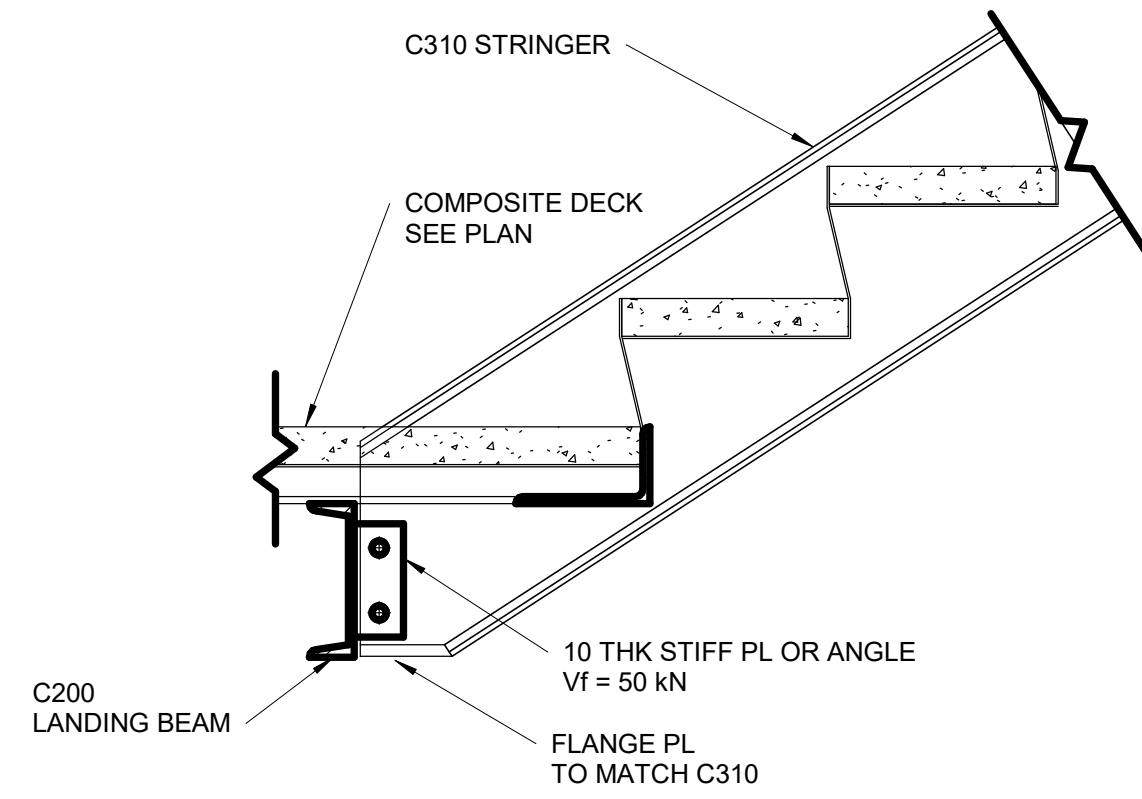
6 PARTITION PERPENDICULAR TO JOIST OR BEAMS  
D2200 Scale: 1 : 20



9 TYPICAL SECTION AT UPPER LANDING STRINGER  
D2200 Scale: 1 : 10



12 TYPICAL SECTION AT LOWER LANDING STRINGER  
D2200 Scale: 1 : 10



11 TYPICAL SECTION AT LOWER LANDING  
D2200 Scale: 1 : 10

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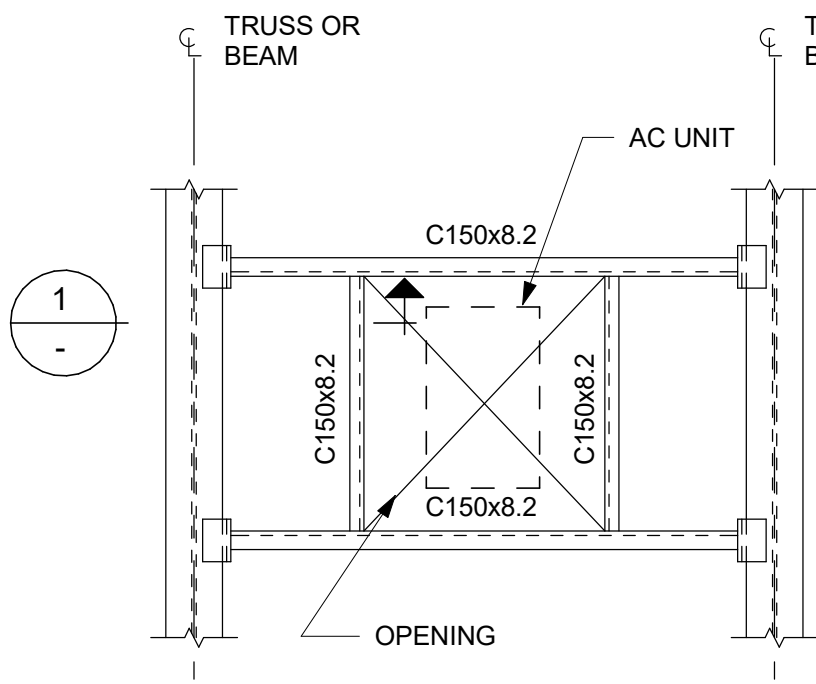
PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

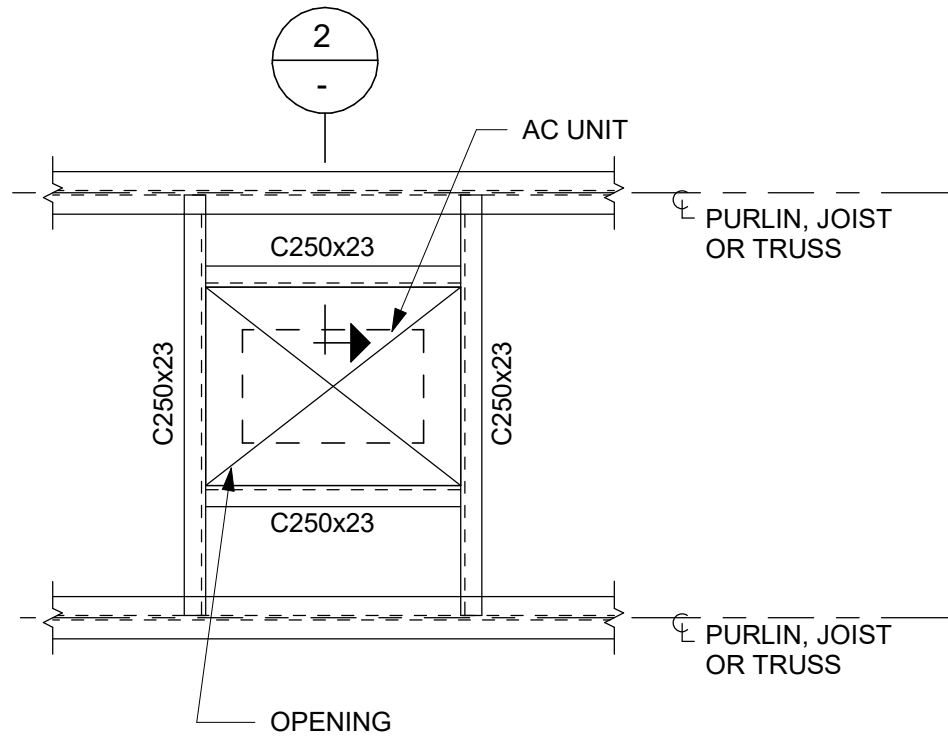
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SHEET TITLE  
**STRUCTURAL STEEL  
DETAILS - 1**

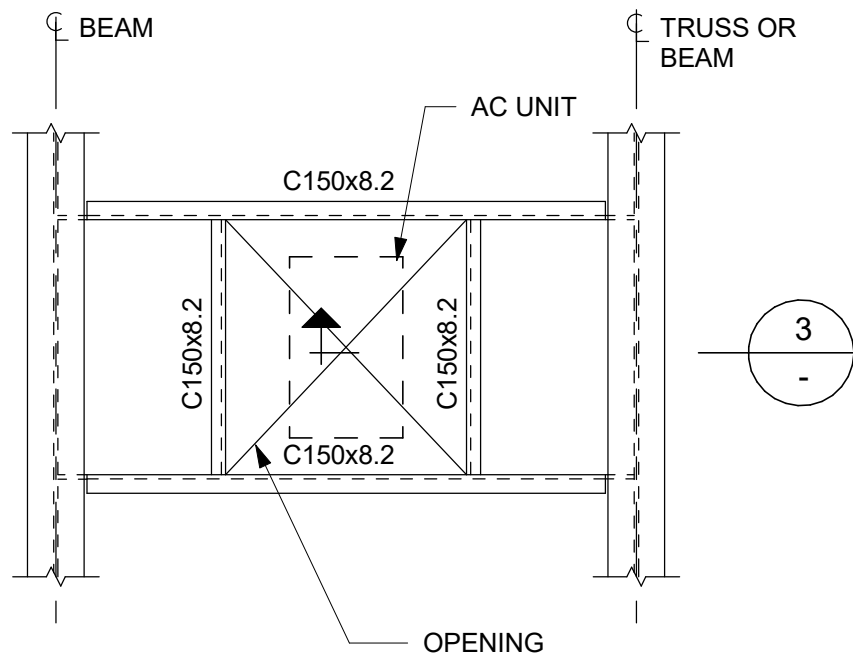
SHEET NUMBER  
**D2200**  
ISSUE  
**D**



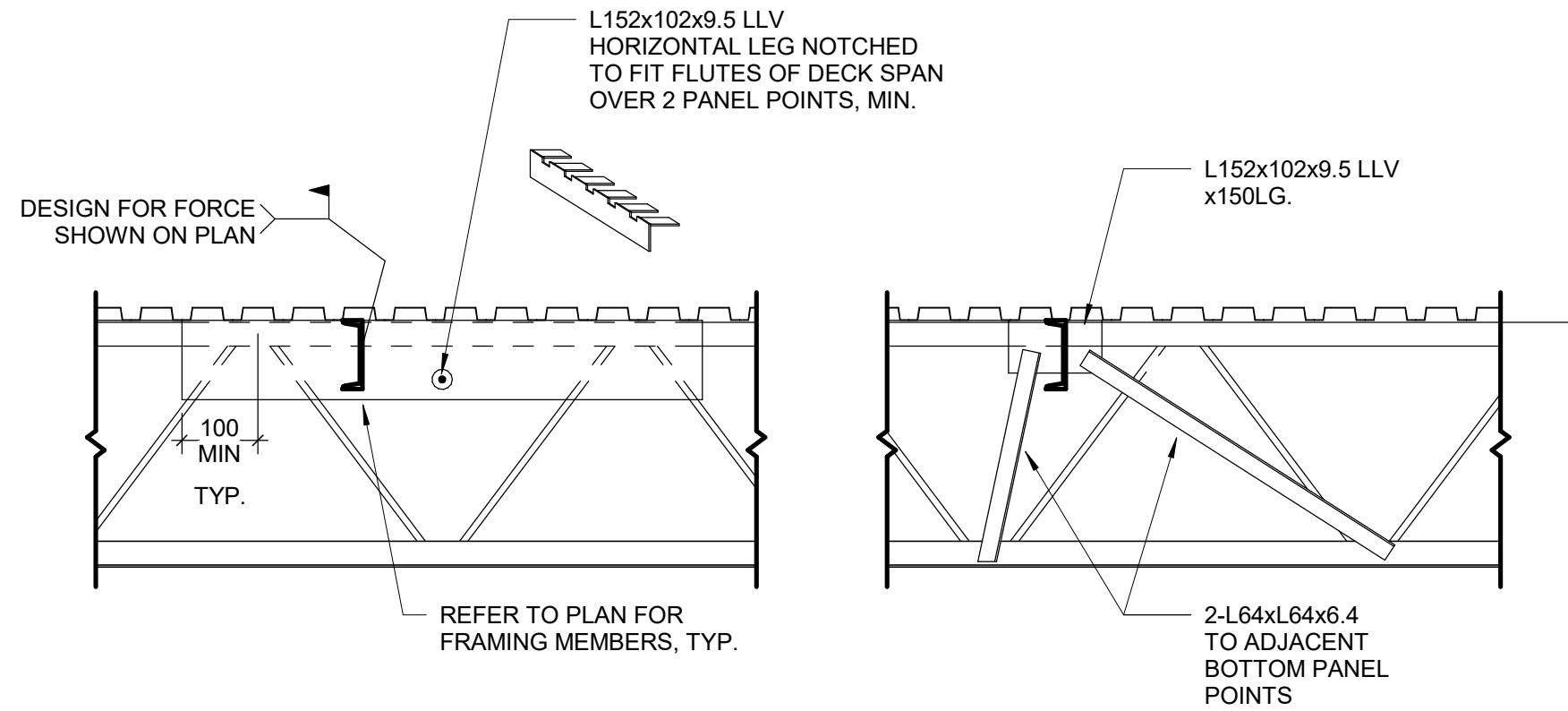
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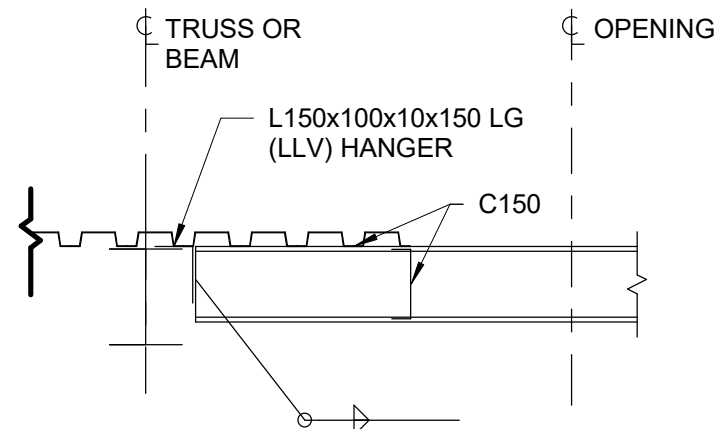
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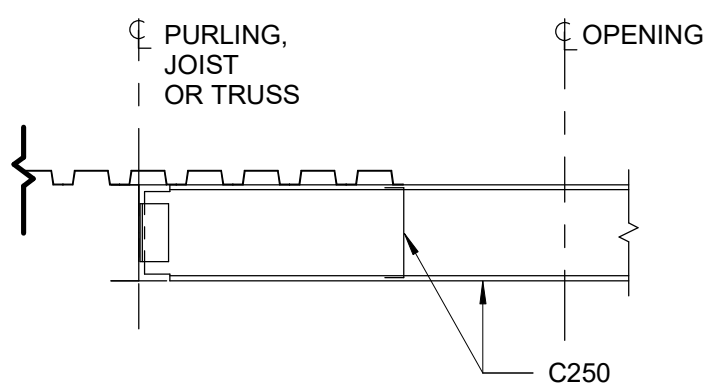
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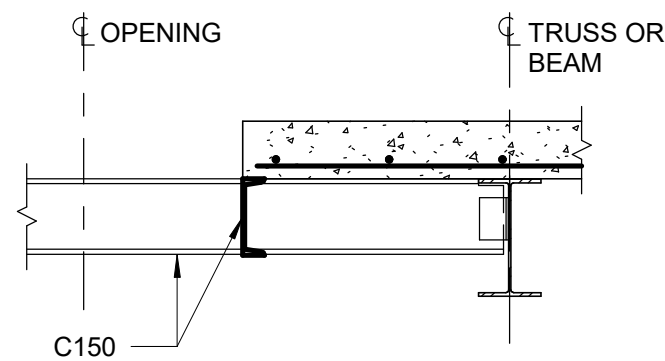
DETAIL AT EXISTING JOIST  
(TWO OPTIONS SHOWN)



1

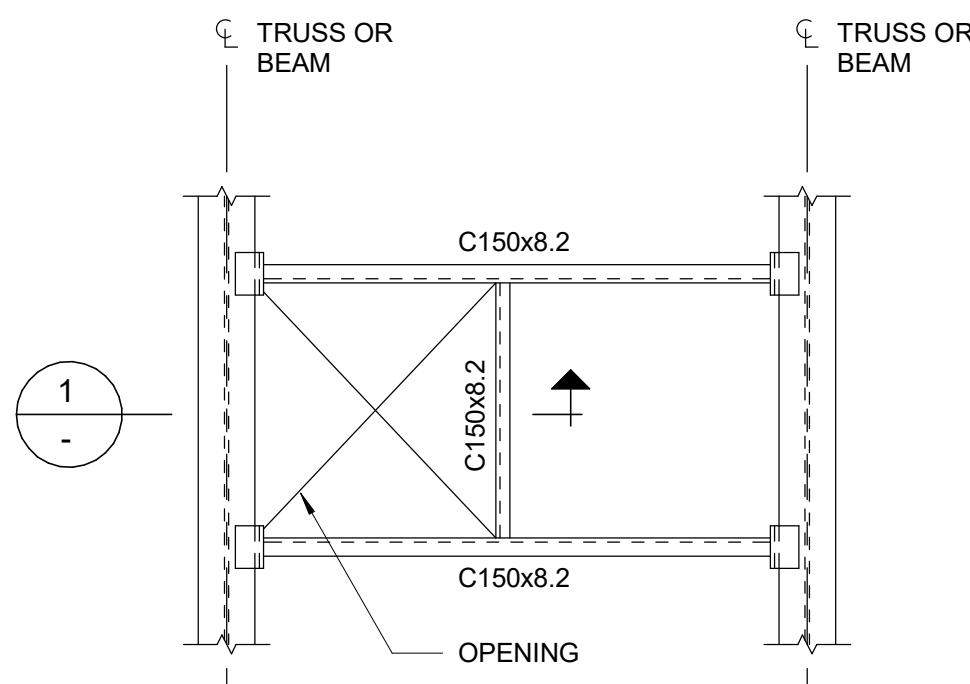


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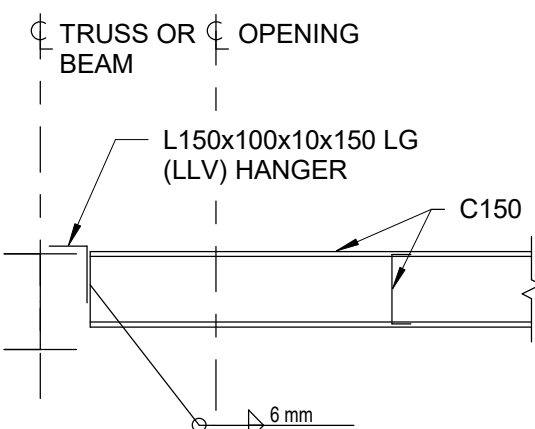


3

1 TYPICAL ROOF OPENING  
D2201 Scale: 1 : 20

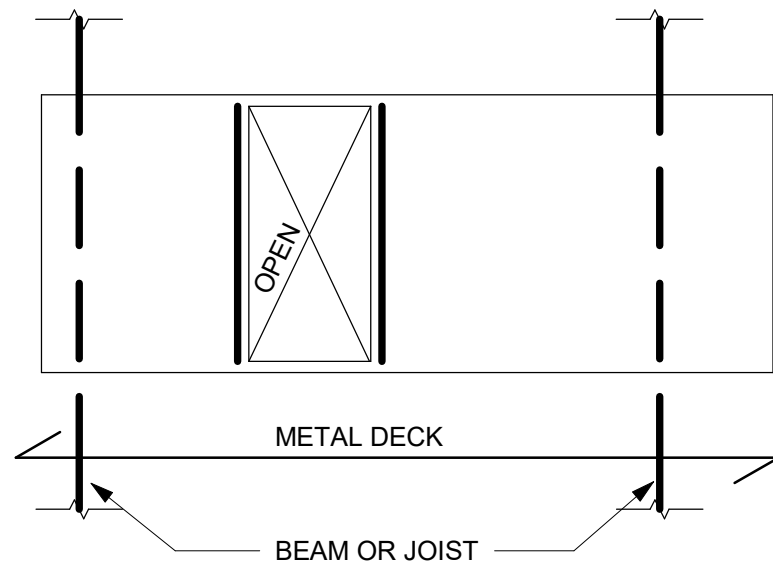


1



1

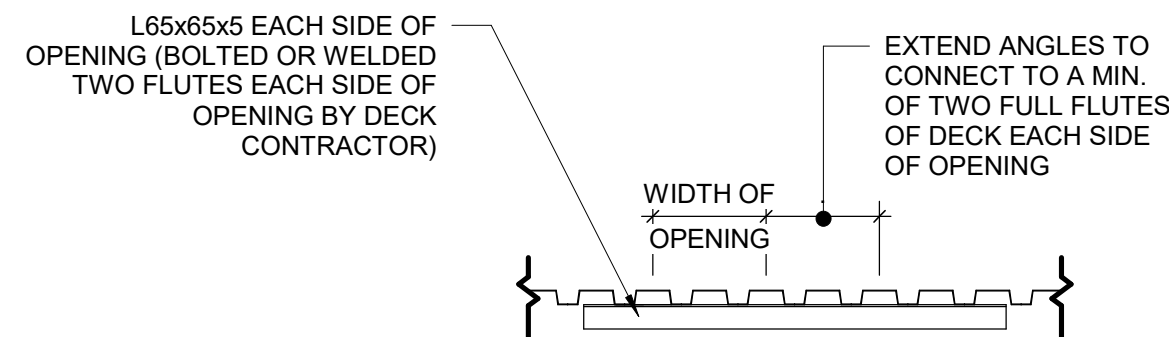
3 TYPICAL ROOF OPENING ADJACENT TO BEAM  
D2201 Scale: 1 : 20



4 OPENINGS IN METAL ROOF DECK  
D2201 Scale: 1 : 20

NOTES:

1. OPENINGS UP TO 150mm SQUARE OR IN DIAMETER AND SPACED A MINIMUM 300mm CLEAR FROM ADJACENT OPENINGS DO NOT REQUIRE REINFORCING.
2. OPENINGS LARGER THEN 150mm, BUT NOT EXCEEDING 450mm, ARE TO BE REINFORCED. SEE DETAIL 7/D2201.
3. OPENINGS LARGER THAN 450mm UP TO MAXIMUM ON DETAIL 1/D2201 1200mm SQUARE ARE TO BE REINFORCED AS SHOWN ABOVE, UNLESS INDICATED OTHERWISE ON PLAN.
4. CONNECT FRAMING FOR A MINIMUM END REACTION OF 10kN.



5 METAL DECK OPENINGS 200 TO 360 WIDE  
D2201 Scale: 1 : 20

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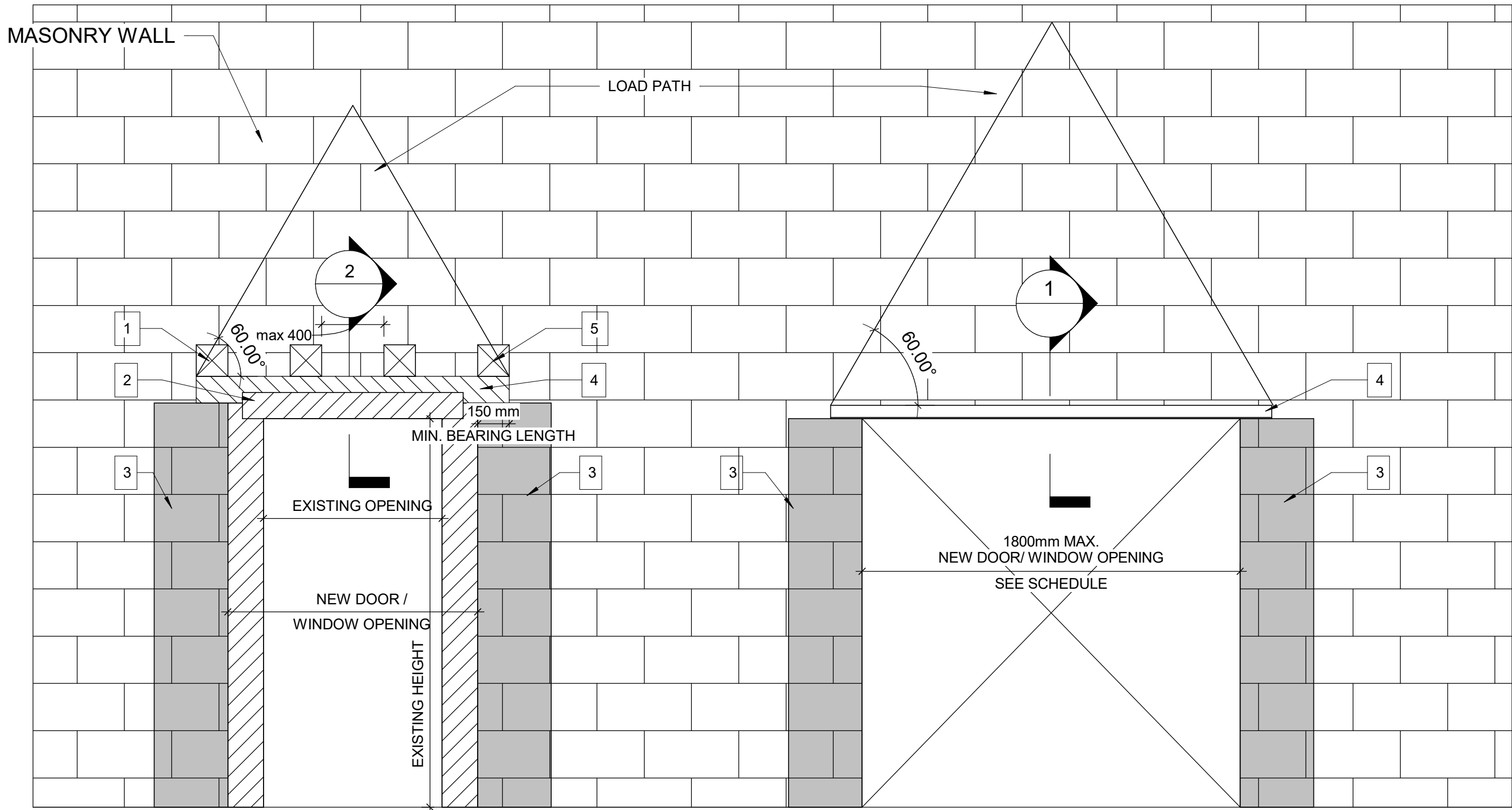
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**K. ANGER**

SHEET TITLE  
**STRUCTURAL STEEL  
DETAILS - 2**

SHEET NUMBER  
**D2201**  
ISSUE  
**D**



### WIDENING AN EXISTING OPENING IN EXISTING MASONRY WALL TYP.

### NEW DOOR/WINDOW OPENING INTO EXISTING MASONRY WALL TYP.

#### PROPOSED SEQUENCE OF WORK

1	CREATE NEW 150x150mm HOLES @ 400mm INTO EXISTING MASONRY WALL AND SHORE THE WALL ABOVE, SEE DETAIL 1. OR SHORE THE WALL ABOVE BY USING 2 CHANNELS BACK TO BACK AND THROUGH BOLTS @350mm, SEE DETAIL 2
2	DEMOLISH THE EXISTING LINTEL, THE VOID FOR NEW BEAM AND THE WALL FROM EACH SIDE OF THE NEW OPENING
3	FILL TWO CORES MIN. OF EXISTING MASONRY WALL WITH GROUT EACH SIDE OF THE NEW OPENING. (DRILL HOLES TOP AND BOTTOM OF EACH CORE, INJECT GROUT, CLOSE HOLES WITH MORTAR AND MAKE GOOD SURFACE)
4	INSTALL NEW LINTEL. SEE LINTEL SCHEDULE FOR LINTEL SIZE
5	ADD MASONRY FACES AT LINTEL AND REPAIR MASONRY COURSE

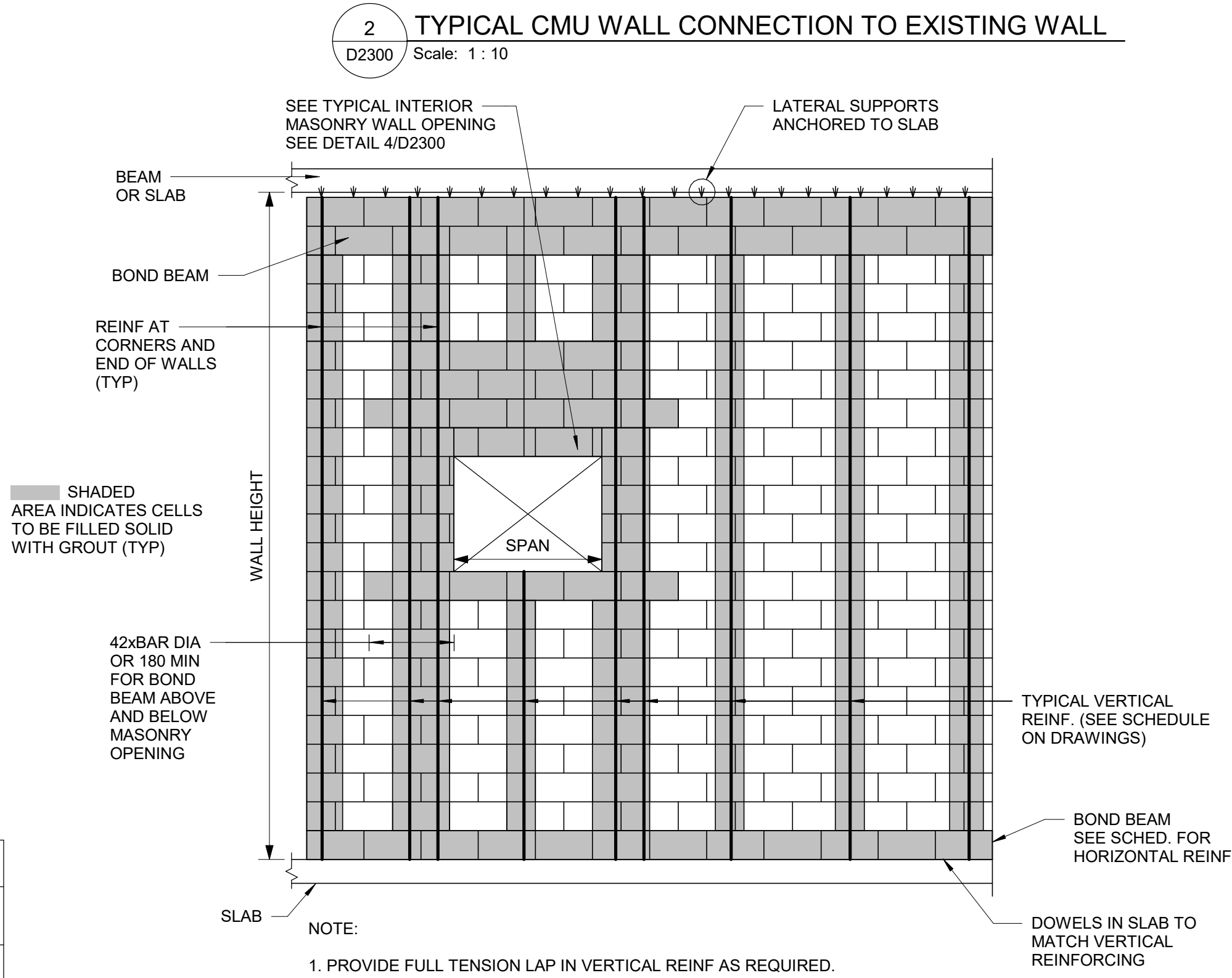
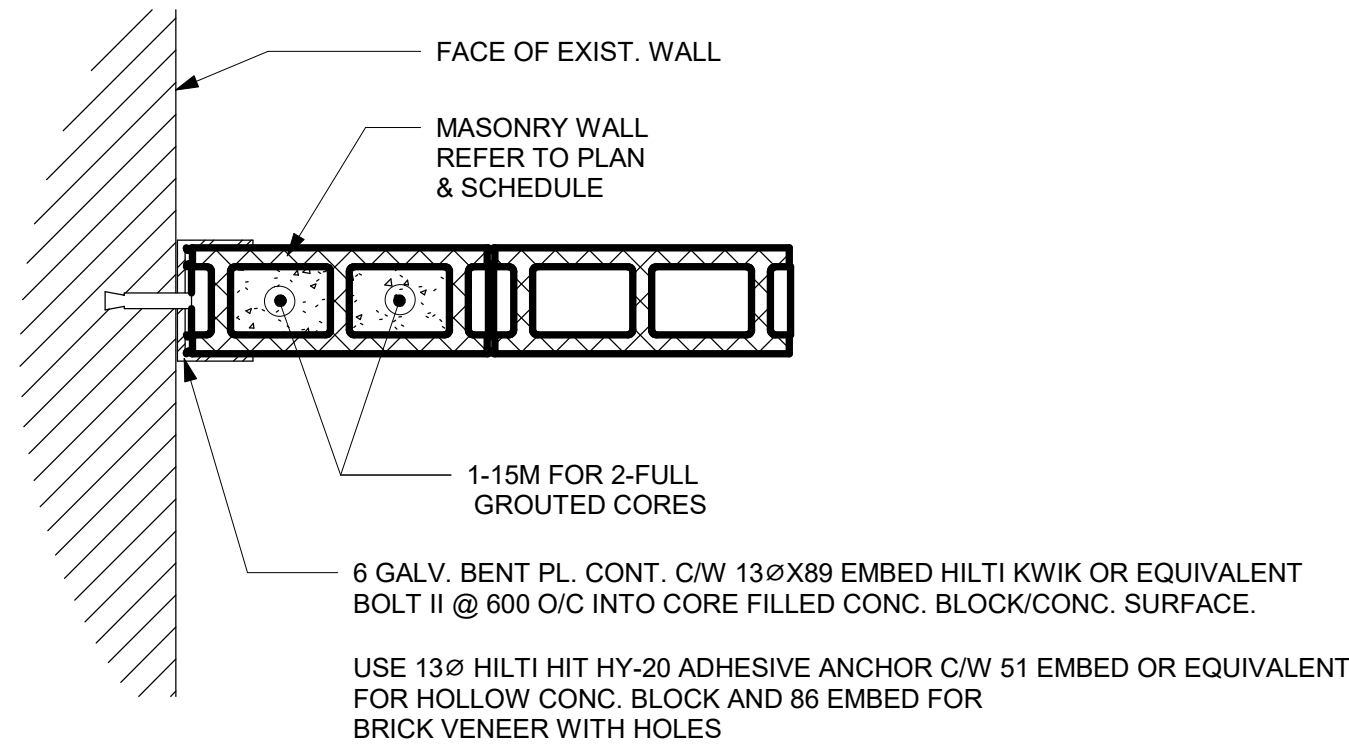
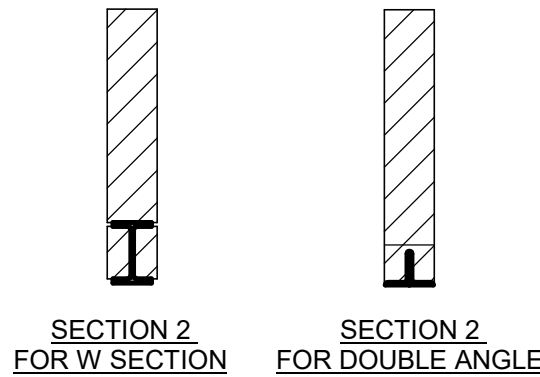
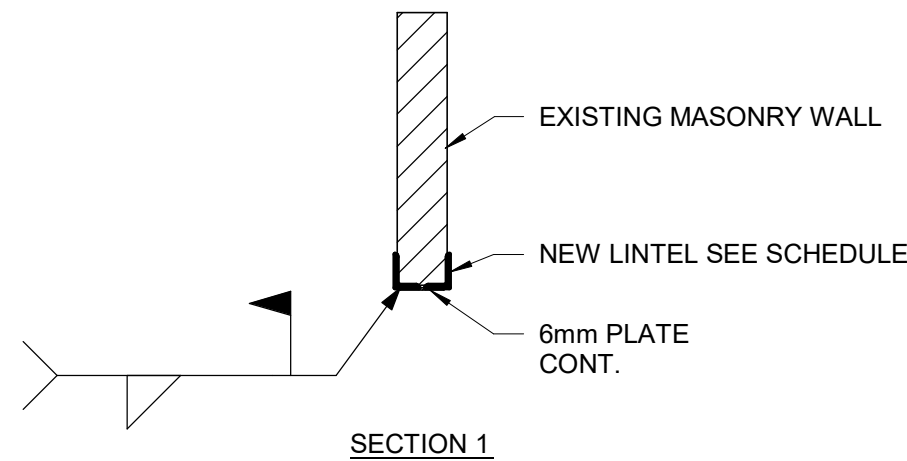
#### LINTEL:

OVER ALL OPENINGS IN MASONRY WALLS PROVIDE THE FOLLOWING LINTELS. UNLESS OTHERWISE SHOWN.

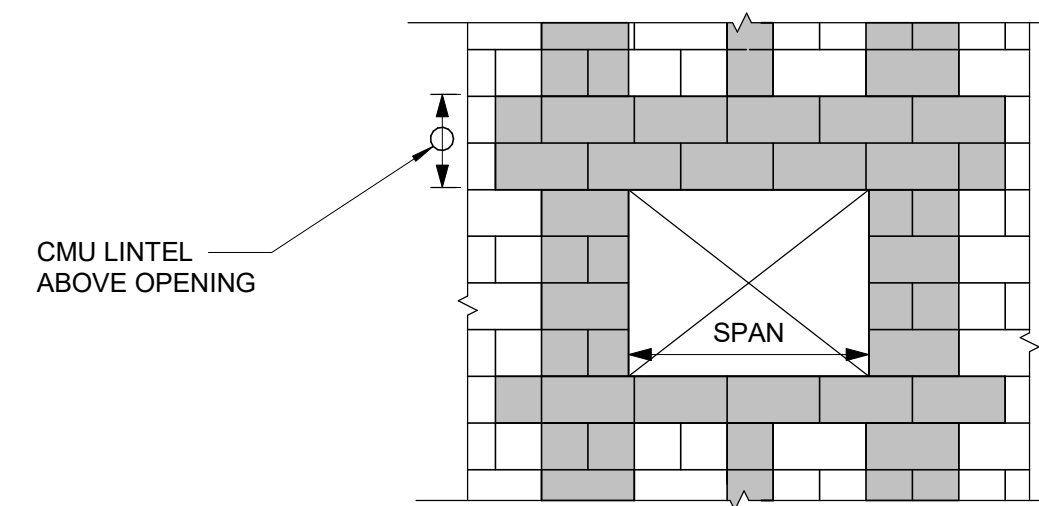
#### STEEL LINTELS

CLEAR SPAN mm (ft-in)	140 (6") WALL	190 (8") WALL	240 (10") WALL	290 (12") WALL	350 WALL	430 WALL
UP TO 1200 (4'-0")	L127x127x7.9	2-L89x89x7.9 +170x6mm PL	L89x89x7.9 +L127x89x7.9 LLV +220x6mm PL	3-L89x89x7.9 +270x6mm PL	3-L127x89x7.9 (LLV)	3-L127x127x7.9 +410x6mm PL
1201 TO 1800 (4'-0" - 6'-")	2-L89x64x6.4LLV	2-L127x89x7.9LLV	L127x89x7.9LLV +L127x127x7.9	3-L127x89x7.9LLV		
1801 TO 3100 (6' - 10')	2-L89x64x9.5LLV	2-L152x89x9.5LLV	2-L152x89x9.5LLV	3-L152x89x9.5LLV		

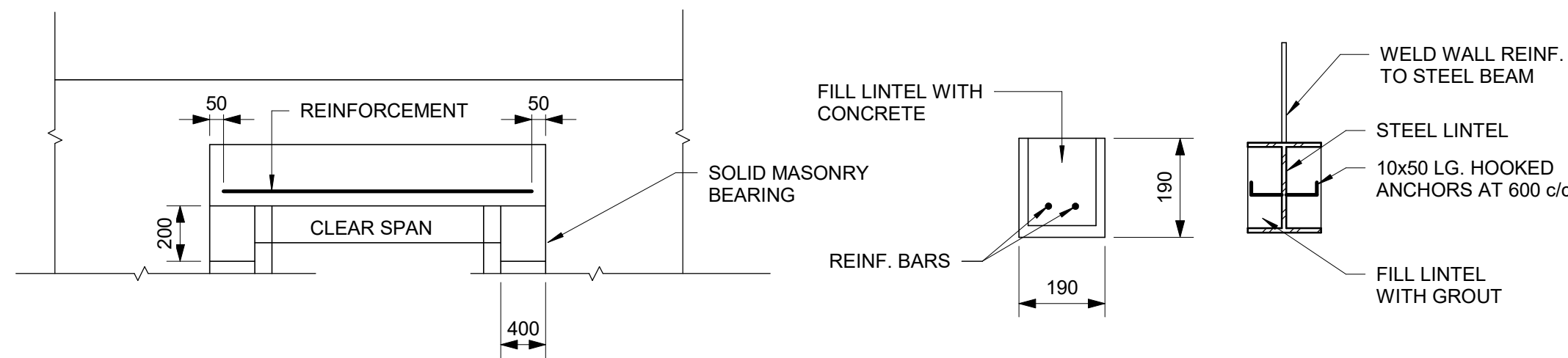
- TO INSTALL A LINTEL TO THE EXISTING BLOCK WALL FOR A NEW OPENING, CUT A GROOVE THROUGH THE EXISTING BLOCK WALL AT THE TOP OF THE NEW OPENING AND INSTALL THE ANGLE FROM ONE SIDE OF THE WALL FOR SINGLE SNGLE OR FROM BOTH SIDES OF THE WALL FOR DOUBLE ANGLE AND THEN CUT THE OPENING.
- MINIMUM BEARING FOR STEEL LINTELS SHALL BE 150mm
- ALL STEEL LINTELS AND SHELF ANGLES IN THE EXTERIOR MASONRY SHALL BE HOT DIP GALVANIZED
- THESE LINTELS ARE FOR NON-LOAD BEARING WALLS. VERIFY THE WALLS DO NOT SUPPORT FLOOR OR ROOF FRAMING. DO NOT IN LOAD BEARING WALLS UNLESS REVIEWED BY THE CONSULT.
- VERIFY THE FOLLOWING:
  - I) NO CONTROL OR MOVEMENT JOINTS ABOVE THE LINTEL AND/OR BEYOND THE OPENING.
  - II) WALL EXTENDS MINIMUM 50% OF SPAN (AND 50% OF OPENING HEIGHT) BEYOND THE OPENING.
  - III) WALL EXTENDS MINIMUM 70% OF SPAN ABOVE THE OPENING.
- STRENGTHEN BEARING POINTS TO FOUNDATION, OR 400 DEEP WHEN SPAN BELOW 3600. GROUT CMU OR STONE MASONRY. BRICK IN AND GROUT VOIDS IN MULTI-WY THE BRICK, REPORT MORTAR JOINTS.
- DRYPACK WITH NON-SHRINK GROUT WHERE NECESSARY TO ACHIEVE UNIFORM BEARING THROUGHOUT. ENSURE EVEN BEARING BELOW LINTEL ENDS.
- SEE GENERAL NOTES FOR OTHER REQUIREMENTS (i.e. GROUT BEARING POINTS).
- HOT-DIP GALVANIZE LINTELS IN EXTERIOR WALLS EXPOSED TO WEATHER.
- SEE ARCH FOR STEEL FIRE PROTECTION.
- DOUBLE BEARING LENGTH FOR SOFT OR MEDIUM BRICK IN LIME MORTAR, AND FOR RUBBLE STONE IN LIME MORTAR OR LIME AND CEMENT MORTAR.



3 TYPICAL NEW MASONRY WALL DETAILS  
D2300 Scale: 1 : 20



4 OPENING IN NEW MASONRY WALL  
D2300 Scale: 1 : 20



- NOTES:
- BLOCKS ABOVE LINTELS TO BE FILLED SOLID WITH GROUT FOR HEIGHT EQUAL TO SPAN.
  - SHORE LINTELS UNTIL GROUT REACHES DESIGN STRENGTH.
  - FOR STEEL LINTELS PROVIDE STEEL PACKING PLATES TO ENSURE EVEN BEARING.
  - EXTERIOR STEEL LINTELS SHALL BE HOT DIP GALVANIZED.

5 MASONRY LINTELS FOR NON LOAD BEARING WALLS  
D2300 Scale: 1 : 20

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