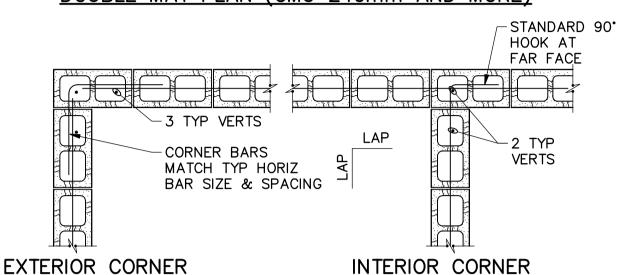


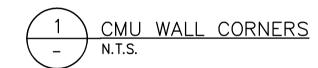
### DOUBLE MAT PLAN (CMU 240mm AND MORE)



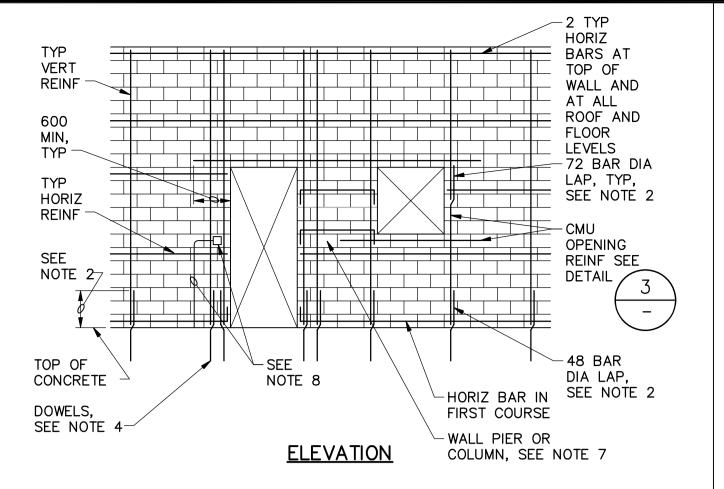
# SINGLE MAT PLAN (CMU 190mm AND LESS)

# NOTES:

- 1. LAP = 48 BAR DIAMETERS OR 600 MINIMUM UNLESS OTHERWISE NOTED.
- 2. PROVIDE A STANDARD 90° HOOK EACH END ON ANY HORIZONTAL BAR BETWEEN OPENINGS, CONTROL JOINTS, OR CORNERS LESS THAN 1800 IN LENGTH.



NOT USED



200mm CMU WALL

<del>- 1</del>

- 1. FOR TYPICAL WALL REINFORCING, SEE WALL SECTIONS AND DETAILS FOR EACH FACILITY. FOR MINIMUM REINFORCING REQUIREMENTS, SEE GENERAL STRUCTURAL NOTES. PROVIDE 20M BAR UNO.
- 2. LAP VERTICAL REINFORCING WITH WALL DOWELS 48 BAR DIAMETERS (600mm MIN), LAP ALL OTHER VERTICAL BARS 72 BAR DIAMETERS.
- 3. STAGGER SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME COURSE BY 600mm
- 4. DOWEL BARS IN FOUNDATION INSTALLED BY OTHERS.
- 5. FOR ADDED REINFORCING AT WALL INTERSECTIONS AND CORNERS, SEE DETAIL
- 6. GROUT EACH SIDE OF OPENING AS NOTED IN TYPICAL OPENING REINFORCING DETAIL /
- 7. FOR HORIZONTAL REINFORCING AT OPENINGS SEE COLUMN AND PIER DETAILS. 8. DO NOT PLACE VERTICAL CONDUIT IN THE SAME CELL AS VERTICAL REINFORCING.

SEALANT

BOND BREAKER TAPE

STOP HORIZONTAL

EXCEPT CONTINUE

THRU JOINT

REINFORCING AT JOINT,

PROVIDE TYP VERTICAL

EACH SIDE OF JOINT

REINFORCING IN TWO CELLS

HORIZONTAL BARS AT ALL

ROOF AND FLOOR LEVELS

BACK-UP ROD

-CMU BLOCK



6mm x 350 LONG SMOOTH BOND

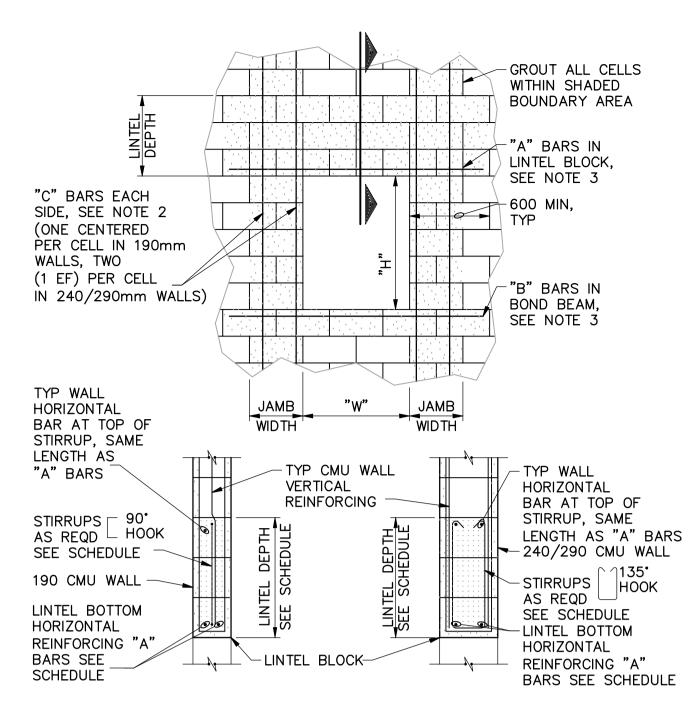
CMU CONTROL JOINT

BAR @ EVERY OTHER JOINT.

GREASE AT STRAIGHT END

CMU OPENING REINF SCHEDULE						
190mm WALLS						
W	LINTEL DEPTH	STIRRUP SIZE, SPG	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH
≤800	200mm	_	1	1	1	200mm
>800≤1200	400mm	_	2	1	1	200mm
>1200≤1800	600mm	10M@200	2	1	2	400mm
>1800≤2400	800mm	10M@400	2	2	3	600mm
>2400≤3000	1200mm	10M <b>@</b> 600	2	2	3	600mm
240/290mm WALLS						
W	LINTEL DEPTH	STIRRUP SIZE, SPG	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH
≤800	200mm	_	2	2	2	200mm
>800≤1200	400mm	_	2	2	2	200mm
>1200≤1800	600mm	10M@200	2	2	4	400mm
>1800≤2400	800mm	10M@400	2	2	6	600mm
>2400<3000	1200mm	10M <b>@</b> 600	2	2	6	600mm

- 1. USE BAR QUANTITIES AND SIZES GIVEN IN LINTEL SCHEDULE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 2. EXTEND "C" BARS 48 BAR DIAMETERS OR 600mm MINIMUM BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 600mm. "C" BARS SHALL EXTEND FULL HEIGHT. WHERE THERE IS LESS THAN 2400mm BETWEEN ADJACENT OPENINGS, EXTEND REINFORCING CONTINUOUS TO 800mm BEYOND FURTHEST OPENING.
- 3. "A" AND "B" BARS SHALL EXTEND 48 BAR DIAMETERS OR 600mm MINIMUM EACH SIDE OF THE OPENINGS.
- 4. FOR BAR SIZES, MATCH TYPICAL WALL REINFORCING AS SHOWN ON THE BUILDING WALL SECTIONS.
- 5. BAR A = 20M DIA, BAR B & C = 15M DIA



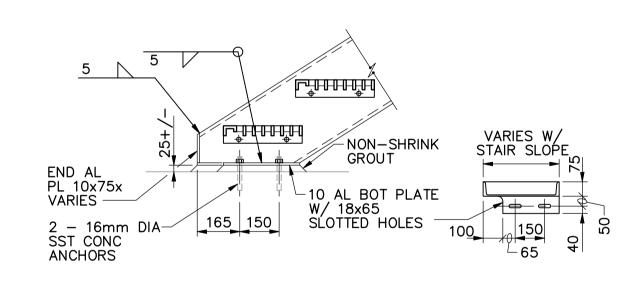
190mm LINTEL SECTION 240/290mm LINTEL SECTION



CMU OPENING REINFORCING



STAIR TREADS

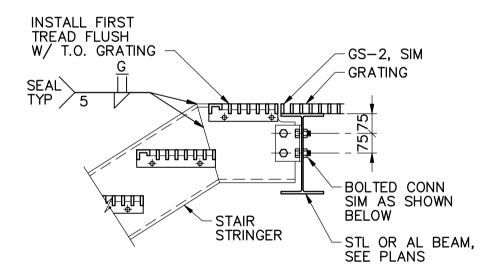


**BOTTOM CONNECTION** 

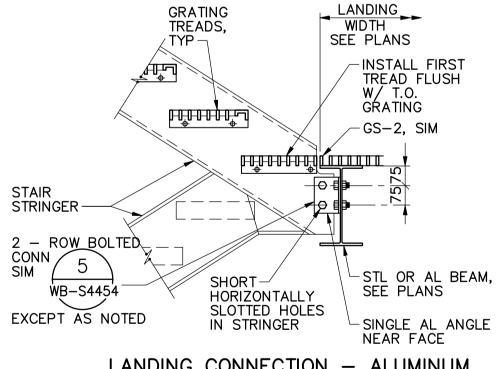
### <u>PLAN</u>

### NOTES:

- PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE AS SPECIFIED.
- 2. AMERICAN STANDARD C12x7.41 ALUMINUM, ALLOY 6061-T6 STRINGERS TYPICAL EXCEPT WHERE OTHERWISE NOTED ON PLANS.
- 3. STAIR HANDRAIL NOT SHOWN.
- 4. ALL FASTENERS SHALL BE STAINLESS STEEL. 5. FIELD VERIFY DIMENSIONS & ELEVATIONS
- PRIOR TO FABRICATION.
- 6. FOR TOP AND LANDING CONNECTION TO CONCRETE, DETAILS SHOWN ON ARCH. DRAWING TYPICAL EXCEPT WHERE OTHERWISE NOTED ON DRAWINGS.



# TOP CONNECTION - ALUMINUM



LANDING CONNECTION — ALUMINUM

STAIR DETAILS-ALUMINUM N.T.S.

B.M. CH2MHILL ENGINEER'S SEAL THE CITY OF WINNIPEG ELEV. **EarthTech** WATER AND WASTE DEPARTMENT Frederickson Cooper ORIGINAL Winnipeg ENGINEERING DIVISION **APEGI** ARCHITECTS SIGNED BY C. MILITANO DESIGNED CHECKED WATER TREATMENT PLANT CITY FILE NUMBER Certificate of Authorization MAIN BUILDING 2007/06/05 CH2M HILL Canada Ltd. DRAWN APPROVED SHEET OF CR OFFICE AND PLANT INTERIOR FINISHES No. 1441 Expiry: April 30, 2008 RELEASED FOR CONSTRUCTION BY: NTS CITY DRAWING NUMBER SCALE: STRUCTURAL CONSULTANT DRAWING NO. R. SOROKOWSKI 00 ISSUED FOR TENDER |07/06/05| MH 1-0601B-A-S4451-001-00D WB-S4451 STANDARD DETAILS NO. REVISIONS DATE BY DATE 2007/06/05 DATE 2007/05/06