

RED RIVER COMMUNITY CENTRE

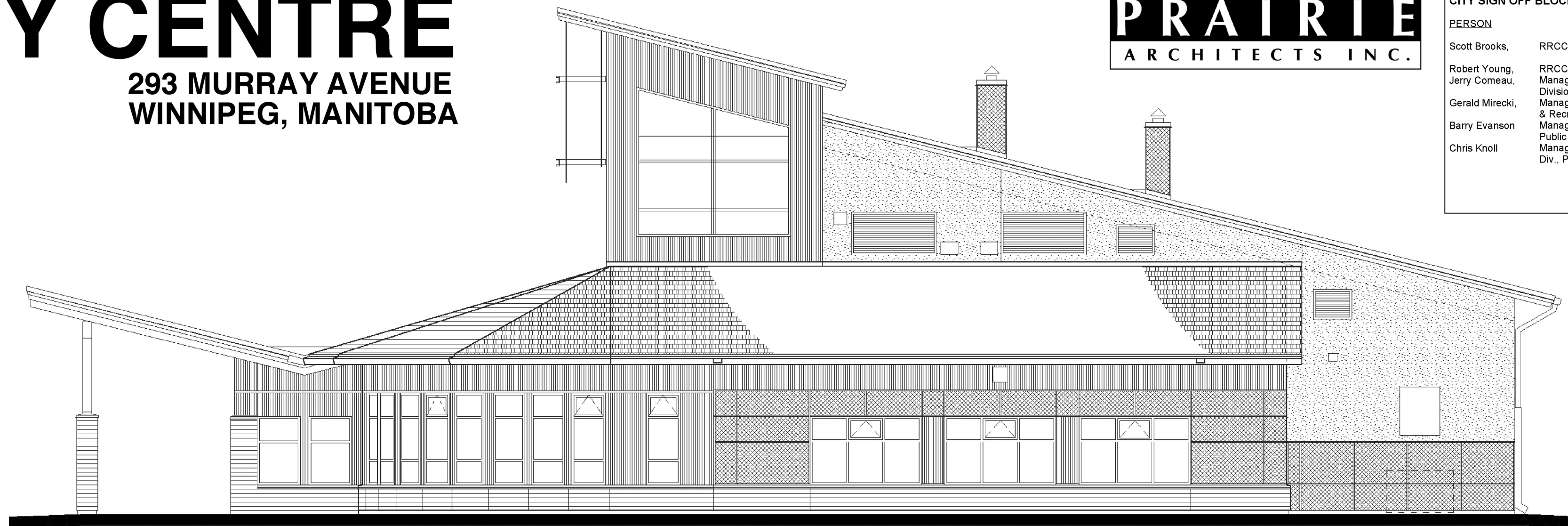
293 MURRAY AVENUE
WINNIPEG, MANITOBA

PRAIRIE
ARCHITECTS INC.

CITY SIGN OFF BLOCK		
PERSON		INITIALS DATE
Scott Brooks,	RRCC Building Committee Rep.	_____
Robert Young,	RRCC Club President	_____
Jerry Comeau,	Manager of Civic Accommodations	_____
Gerald Mirecki,	Division, Planning Prop. & Development	_____
Barry Evanson	Manager of Community Development & Recreation Services Div., Com. Serv.	_____
Chris Knoll	Manager of Building Services Division Public Works Dept. Manager of Planning and Land Use Div., Planning and Prop. Dept.	_____



PROMPTLY REPORT ALL ACCIDENTS AND POTENTIAL LIABILITY CLAIMS TO THE CONTRACT ADMINISTRATOR.



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DRAWING LIST

GENERAL DRAWINGS

COVER SHEET

CIVIL DRAWING

C01 SITE PLAN

ARCHITECTURAL DRAWINGS

A2-0	SITE PLAN
A2-1	GROUND FLOOR PLAN
A2-2	ROOF PLAN / MEZZ. PLAN/WC ENLARGED PLAN / WC INTERIOR ELEVATIONS
A3-1	EXTERIOR ELEVATIONS
A3-2	EXTERIOR ELEVATIONS
A4-1	BUILDING SECTIONS
A4-2	BUILDING SECTIONS
A5-1	WALL SECTIONS
A5-2	WALL SECTIONS
A5-3	WALL SECTIONS
A5-4	WALL SECTIONS
A5-5	WALL SECTIONS
A6-1	REFLECTED CEILING PLAN
A8-1	INTERIOR ELEVATIONS
A8-2	INTERIOR ELEVATIONS
A6-1	REFLECTED CEILING PLAN

STRUCTURAL DRAWINGS

S-1	FOUNDATION AND MAIN FLOOR FRAMING PLAN
S-2	MEZZANINE AND ROOF FRAMING PLANS
S-3	SECTIONS AND DETAILS
S-4	SECTIONS AND DETAILS
S-5	GENERAL NOTES, SECTIONS AND DETAILS

MECHANICAL DRAWINGS

M0-1	SITE PLAN - MECH.
M1-1	GROUND FLOOR /MEZZ PLUMBING
M2-1	GROUND FLOOR HVAC
M2-2	MEZZ. HVAC
M3-1	SECTIONS AND DETAILS

ELECTRICAL DRAWINGS

E1-1	SITE PLAN - ELEC. AND SYMBOL LEGEND
E2-1	GROUND FLOOR PLAN - LIGHTING
E2-2	MEZZANINE FLOOR PLAN - LIGHTING
E2-2	GROUND FLOOR - POWER & SYSTEMS
E2-2	MEZZANINE FLOOR - POWER & SYSTEMS
E3-1	MAIN DISTRIBUTION SCHEMATIC

BUILDING CODE DESIGN SUMMARY

SECTION 3.1 GENERAL:

1998 MANITOBA BUILDING CODE, PART 3 AND MLCC REQUIREMENTS (UPDATED JAN. 2003)
SINGLE OCCUPANCY BUILDING:
GROUP A2 - COMMUNITY HALL

OVERALL BUILDING AREA:
MAIN FLOOR 993 s.m. (10,689 s.f.)
MECHANICAL MEZZANINE 54 s.m. (581 s.f.)
ONE STOREY (NO BASEMENT) AND NOT SPRINKLERED
FACING ONE STREET OF FIRE FIGHTER ACCESS

DESIGN OCCUPANT LOAD (TABLE 3.1.16.1):	ROOM	AREA (s.m.)	AREA PER PERSON (s.m.)	OCCUPANT LOAD	MLCC (LIQUOR COMM.)
	GYM	333	0.95 (non-fixed seats & tables)	350	302 (1.1 s.m./person)
	MULTI-P. RM.	74	1.85 (lounge)	40	67 (1.1 s.m./person)
	OFFICE	9	9.3	1	
	KITCHEN	19	9.3	2	
	CANTEEN	11	9.3	1	
	BAR	7	9.3	1	
	DRESSING (6)	23x6	1.85 (lounge)	74	
	SKATE CHANGE 10.5M (LENGTH) 0.5 (LIN. LENGTH/P)			21	
	CORR./VIEWING 20.36M (LEN) 0.5 (LIN. LENGTH/P)			40	
	VIEWING 123 10.8M (LEN) 0.5 (LIN. LENGTH/P)			21	
	TOTAL OCCUPANT LOAD (MBC) =			551 persons	
	TOTAL OCCUPANT LOAD (MLCC) =			373 persons max. (POST LIMIT TO 48P FOR TOTAL MAX. OF 350 PERSONS)	

SECTION 3.2 BUILDING FIRE SAFETY - CONSTRUCTION TYPES:

BUILDING TO MEET:

GROUP A2 - 3.2.2.25. UP TO 2 STOREYS, NOT SPRINKLERED.
IF FACING ONE STREET AND 1 STOREY IN BUILDING HEIGHT, MAXIMUM BUILDING AREA = 1600sm.
COMBUSTIBLE OR NON-COMBUSTIBLE CONSTRUCTION PERMITTED
3.2.1.1.1) 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 (MEZZANINE SERVICE ROOMS).

BUILDING DESIGN:

- FLOOR ASSEMBLIES AND MEZZANINES SHALL BE FIRE SEPARATIONS AND IF OF COMBUSTIBLE CONSTR. SHALL HAVE A 3/4-HOUR FIRE RESISTANCE RATING
- ROOF ASSEMBLIES: IF OF COMBUSTIBLE CONSTRUCTION, SHALL HAVE A 3/4 HOUR FIRE RESISTANCE RATING, EXCEPT THAT IN A 1 STOREY BUILDING, THE FIRE RESISTANCE IS PERMITTED TO BE WAIVED PROVIDED THE ROOF ASSEMBLY IS CONSTRUCTED AS A FIRE-RETARDANT TREATED WOOD ROOF SYSTEM CONFORMING TO 3.1.14.1., AND THE BUILDING AREA IS NOT MORE THAN 800sm. IF FACING 1 STREET (3.1.14.1 ROOF DECK ASSEMBLY SHALL MEET CANULC-S-126-M, AND ROOF SUPPORTS SHALL CONSIST OF FIRE-RETARDANT TREATED WOOD, HEAVY TIMBER CONSTRUCTION, NON-COMBUSTIBLE CONSTRUCTION, OR A COMBINATION THEREOF.
- LOADBEARING WALLS, COLUMNS, AND ARCHES SUPPORTING AN ASSEMBLY REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL HAVE A 3/4 HOUR FIRE RESISTANCE RATING OR BE NON-COMBUSTIBLE.

3.2.29. A FLOOR ASSEMBLY IMMEDIATELY ABOVE A CRAWLSPACE IS NOT REQUIRED TO BE CONSTRUCTED AS A FIRE SEPARATION AND IS NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING, PROVIDED THE CRAWLSPACE IS NOT A BASEMENT (MORE THAN 1.8m HIGH, USED FOR ANY OCCUPANCY, USED OF PASSAGE OF FLUE PIPES OR USED AS A PLENUM IN COMBUSTIBLE CONSTRUCTION).

3.2.3 SPATIAL SEPARATIONS:

SOUTH WALL (FRONT ELEVATION)
LIMITING DISTANCE = ±30m TO C/L OF MURRAY AVENUE
TABLE 3.2.3.1 A. GROUP A, NOT SPRINKLERED; 100% AREA OF UNPROTECTED OPENINGS PERMITTED.
NO FIRE RESISTANCE RATING REQUIRED FOR EXPOSING BUILDING FACE. THEREFORE, COMBUSTIBLE CONSTRUCTION AND COMBUSTIBLE CLADDING ARE PERMITTED.

EAST WALL (SIDE ELEVATION)
LIMITING DISTANCE = ±80m TO C/L OF MAIN STREET
TABLE 3.2.3.1 A. GROUP A, NOT SPRINKLERED; 100% AREA OF UNPROTECTED OPENINGS PERMITTED.
NO FIRE RESISTANCE RATING REQUIRED FOR EXPOSING BUILDING FACE. THEREFORE, COMBUSTIBLE CONSTRUCTION AND COMBUSTIBLE CLADDING ARE PERMITTED.

NORTH WALL
LIMITING DISTANCE = MORE THAN SOUTH WALL, THEREFORE SAME COMMENTS APPLY.

WEST WALL
LIMITING DISTANCE = MORE THAN EAST WALL, THEREFORE SAME COMMENTS APPLY.

3.2.4 FIRE ALARM AND DETECTION SYSTEMS (SEE ELECTRICAL):

3.2.4.1.2) A FIRE ALARM SYSTEM SHALL BE INSTALLED IN A BUILDING THAT IS NOT SPRINKLERED THROUGHOUT BUT WHICH CONTAINS:
a) A TOTAL OCCUPANT LOAD MORE THAN 300 and
g) A LICENSED BEVERAGE ESTABLISHMENT WITH AN OCCUPANT LOAD MORE THAN 150.
3.2.4.10.2) FIRE DETECTORS SHALL BE INSTALLED IN: STORAGE ROOMS, SERVICE ROOMS, AND JANITOR'S ROOMS.

3.2.5 PROVISIONS FOR FIRE FIGHTING:

3.2.5.4. A BUILDING MORE THAN 600 s.m. REQUIRES AN ACCESS ROUTE FOR FIRE DEPARTMENT VEHICLES TO THE BUILDING FACE HAVING THE PRINCIPAL ENTRANCE, 3.2.5.5. THIS ACCESS ROUTE SHALL BE LOCATED NOT LESS THAN 3m AND NOT MORE THAN 15m FROM THE ACCESS ROUTE TO THE BUILDING (A DESIGNATED "FIRE LANE" IS REQUIRED ALONG SIDEWALK IN FRONT OF BUILDING).
3.2.5.5.2) FOR A BUILDING WITH NO FIRE DEPT. CONNECTION, THE LENGTH OF THE ACCESS ROUTE FROM A HYDRANT TO THE PUMPER VEHICLE PLUS THE UNOBSTRUCTED PATH OF TRAVEL FROM THE VEHICLE TO THE PRINCIPAL ENTRANCE SHALL BE 90m MAXIMUM.

3.2.7 LIGHTING AND EMERGENCY POWER SYSTEMS (BY ELECTRICAL):

3.2.7 EMERGENCY LIGHTING AND POWER COMPLIANCE BY ELECTRICAL

3.2.8 MEZZANINES AND OPENINGS THROUGH FLOOR ASSEMBLIES:

3.2.8.1 1) THE PORTIONS OF A MEZZANINE THAT DO NOT TERMINATE AT AN EXTERIOR WALL, A FIREWALL OR A VERTICAL SHAFT SHALL A) TERMINATE AT A VERTICAL FIRE SEPARATION HAVING A FIRE RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE FLOOR ASSEMBLY AND EXTENDING FROM THE FLOOR ASSEMBLY TO THE UNDERSIDE OF THE ROOF ASSEMBLY ABOVE.
AGGREGATE MEZZANINE AREA = 54 s.m. (5% OF TOTAL BLDG. AREA)
(NO INTERCONNECTED FLOOR SPACES ON THIS PROJECT)

SECTION 3.3 SAFETY WITHIN FLOOR AREAS:

1.1.3.2 ZAMBONI GARAGE (STORAGE GARAGE)
3.2.4.1 STORAGE GARAGE DOES NOT TRIGGER A FIRE ALARM SYSTEM (BUILDING IS NOT SPRINKLERED)
3.2.5.9.(4) A STANDPIPE NEED NOT BE INSTALLED IN A STORAGE GARAGE PROVIDED THE BUILDING IS NOT MORE THAN 15M HIGH.
3.3.5.4. NO VESTIBULE IS REQUIRED BETWEEN STORAGE GARAGE AND REMAINDER OF A2 BUILDING. (ONLY REQUIRED IF BUILDING WERE A1 AND MORE THAN 3 STOREYS.)
3.3.5.4.(4) A STORAGE GARAGE SHALL BE PROVIDED WITH NATURAL OR MECH. VENTILATION IN CONFORMANCE WITH 6.2.2
3.3.5.4.(5) MIN. CEILING HEIGHT IN STORAGE GARAGE TO BE 2M
3.3.5.4.(7) SPRINKLERING REQUIRED IN BELOW GRADE STORAGE GARAGES BUT NOT REQUIRED ON GRADE.
3.3.5.8 STORAGE GARAGE SEPARATION 1) EXCEPT AS PERMITTED IN 3.3.4.2.(4) AND (5) A STORAGE GARAGE SHALL BE SEPARATED FROM OTHER OCCUPANCIES BY A FIRE SEPARATION WITH A FIRE-RESISTANCE RATING NOT LESS THAN 1.5H.

PUBLIC CORRIDOR FIRE SEPARATION FROM REMINDER OF BLDG.: 3/4 HOUR F.R.R. AS PER 3.3.1.4.(2). (NOT PROVIDING ACCESS TO EXIT FROM MORE THAN ONE SUITE THEREFORE NO PUBLIC CORRIDOR)
BARRIER FREE PROTECTION (3.3.1.7); BUILDING IS ONLY 1 STOREY.
JANITOR ROOM: FIRE SEPARATION WITH 3/4 HOUR F.R.R. AS PER 3.3.1.20.(2).
LAUNDRY ROOM: N/A
WELDING AND CUTTING ROOMS - N/A
REPAIR GARAGE - N/A

SECTION 3.4 EXITS:

- (2) EXITS ARE REQUIRED FROM FLOOR AREA. (MINIMUM CRITERIA FOR ONLY ONE EXIT: MAXIMUM FLOOR AREA OF 150 s.m. AND A MAXIMUM TRAVEL DISTANCE OF 15m AS PER TABLE 3.4.2.1.A. (GROUP A OCCUPANCY, NOT SPRINKLERED).
- ONLY ONE EXIT IS REQUIRED FROM EACH MEZZANINE FLOOR AREA IF IT MEETS THE CRITERIA ABOVE.
3.4.2.5.(f) LOCATION OF EXITS: 30m MAXIMUM TRAVEL DISTANCE TO AT LEAST ONE EXIT.
3.4.3.1.2.(a) EXIT WIDTH: 1100mm MINIMUM FOR CORRIDORS.
3.4.3.4.(a) EXIT CAPACITY: 61mm PER PERSON
GENERAL DOOR WIDTHS: 811mm MINIMUM REQUIRED, 900mm MINIMUM PROVIDED.
TOTAL WIDTH REQUIRED: 551 PERSONS X 61mm = 33611mm REQUIRED, 4834mm PROVIDED (5 DOORS).
GYM DOOR WIDTHS: 350 PERSONS X 61mm = 21350mm REQUIRED, 2867mm PROVIDED
3.4.4.4 EXIT ENCLOSURE SEPARATION: N/A
3.4.4.2 EXIT THROUGH LOBBY: N/A
3.4.5.1. EXIT SIGNAGE (REFER TO ELECTRICAL) REQUIRED BECAUSE OCCUPANT LOAD EXCEEDS 150 PERSONS)

SECTION 3.5 VERTICAL TRANSPORTATION:

NOT APPLICABLE.

SECTION 3.6 VERTICAL SERVICE FACILITIES:

SERVICE ROOMS (INCLUDING MEZZANINE ROOMS), 3.6.2.1.2): A FUEL FIRED APPLIANCE IN A BUILDING NOT CONTAINING A GROUP B OR F1 OCCUPANCY SHALL BE LOCATED IN A SERVICE ROOM SEPARATED FROM THE REMAINDER OF THE BLDG. BY A FIRE SEPARATION WITH A 1 HOUR F.R.R. IF THE BUILDING IS MORE THAN 400 s.m. IN BUILDING AREA.
INCINERATOR ROOMS: N/A
GARBAGE / REFUSE ROOMS: N/A
VERTICAL SERVICE SPACES: FIRE SEPARATION WITH A 3/4 HOUR F.R.R. TO MATCH FLOOR ASSEMBLY RATING (TABLE 3.6.3.1.)
HORIZONTAL SERVICE SPACES: SAME AS VERTICAL SERVICE SPACES.

SECTION 3.7 WASHROOMS:

MAIN INTENT OF OCCUPANCY IS FOR MLCC LICENSING, THEREFORE, TOTAL OCCUPANT LOAD BY MLCC = 350 PERSONS. (MULTI-PURPOSE RM. POSTED AT MAX. 48P) MLCC WASHROOM REQUIREMENTS FOR THIS CAPACITY ARE: 7 FEMALE WC'S, 2 MALE WC'S, AND 2 MALE URINALS (4 FEMALE HAND BASINS AND 2 MALE HAND BASINS ARE REQUIRED).

SECTION 3.8 BARRIER FREE ACCESS:

- BARRIER FREE ACCESS IS REQUIRED TO MAIN FLOOR.
- PUBLIC (MAIN) ENTRANCE IS REQUIRED TO HAVE A POWER DOOR OPERATOR AS PER (3.8.3.3.5): GROUP A OCCUPANCY WITH MORE THAN 500 s.m. IN BUILDING AREA.
- A BARRIER FREE STALL IS REQUIRED IN EACH WASHROOM AND PROVIDED.
- EVERY DOOR EQUIPPED WITH A CLOSER IN A BARRIER FREE PATH OF TRAVEL SHALL HAVE A CLEAR SPACE BEYOND THE LATCH SIDE OF 600mm ON THE PULL SIDE AND 300mm ON THE PUSH SIDE OF THE DOOR AS PER 3.8.3.3.10).

EQUIVALENCY PROPOSALS: N/A

OTHER CONDITIONS / FEATURES: N/A

R-1