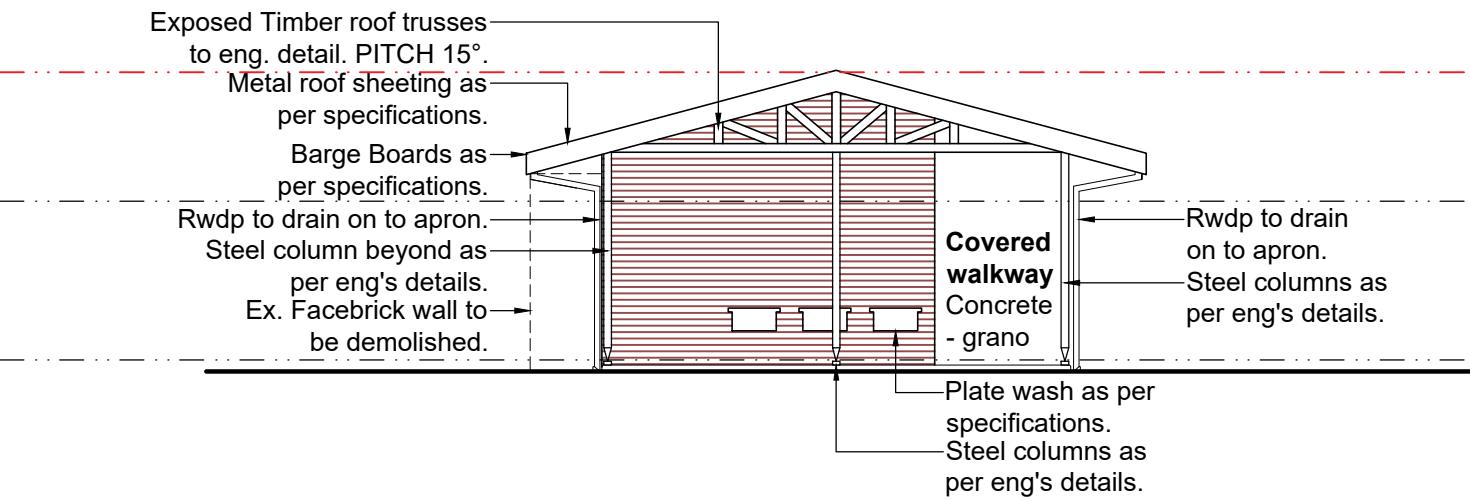
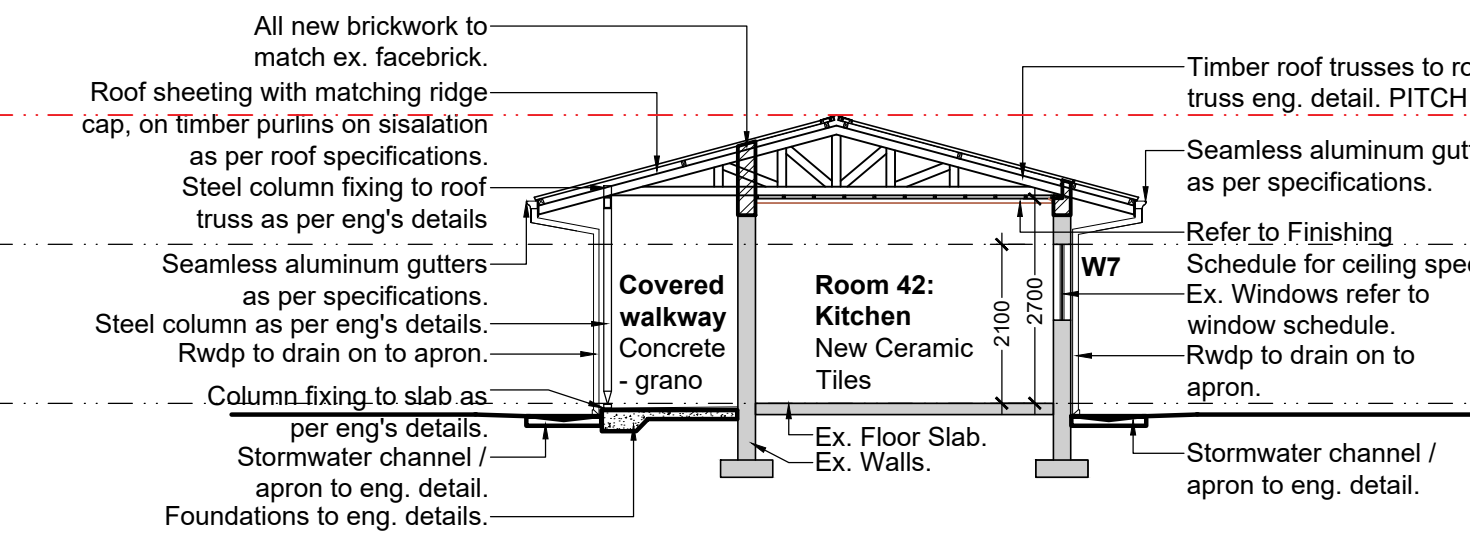


WEST ELEVATION - BLOCK - F
Umbelebele High School:
1:100

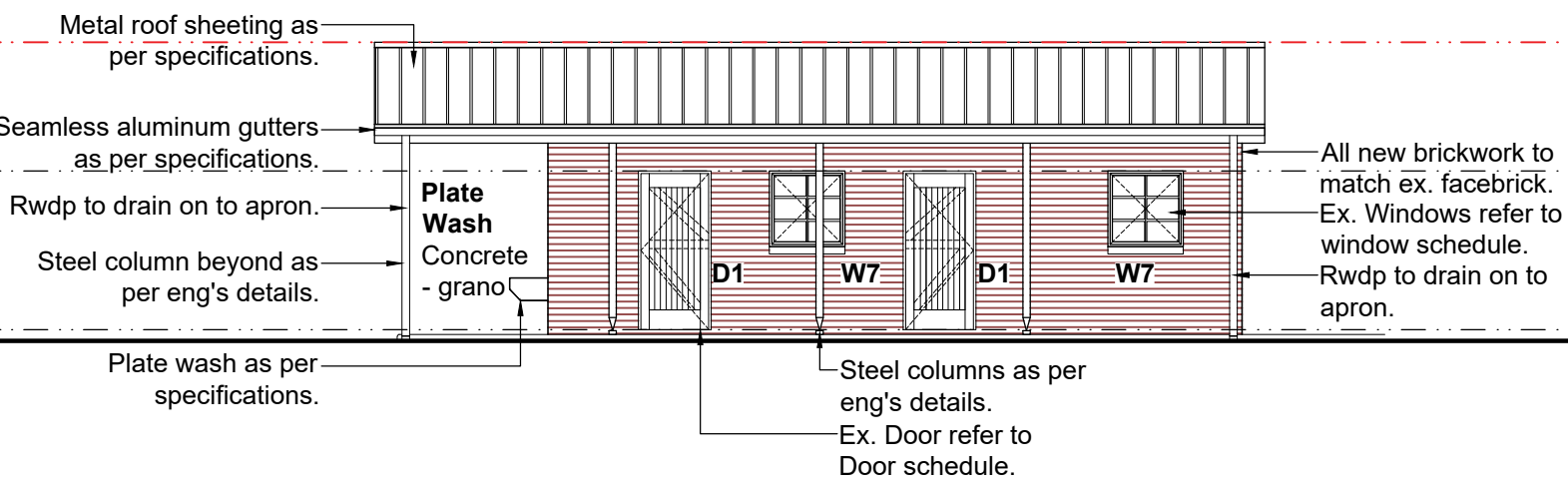


EAST ELEVATION - BLOCK - F
Umbelebele High School:
1:100

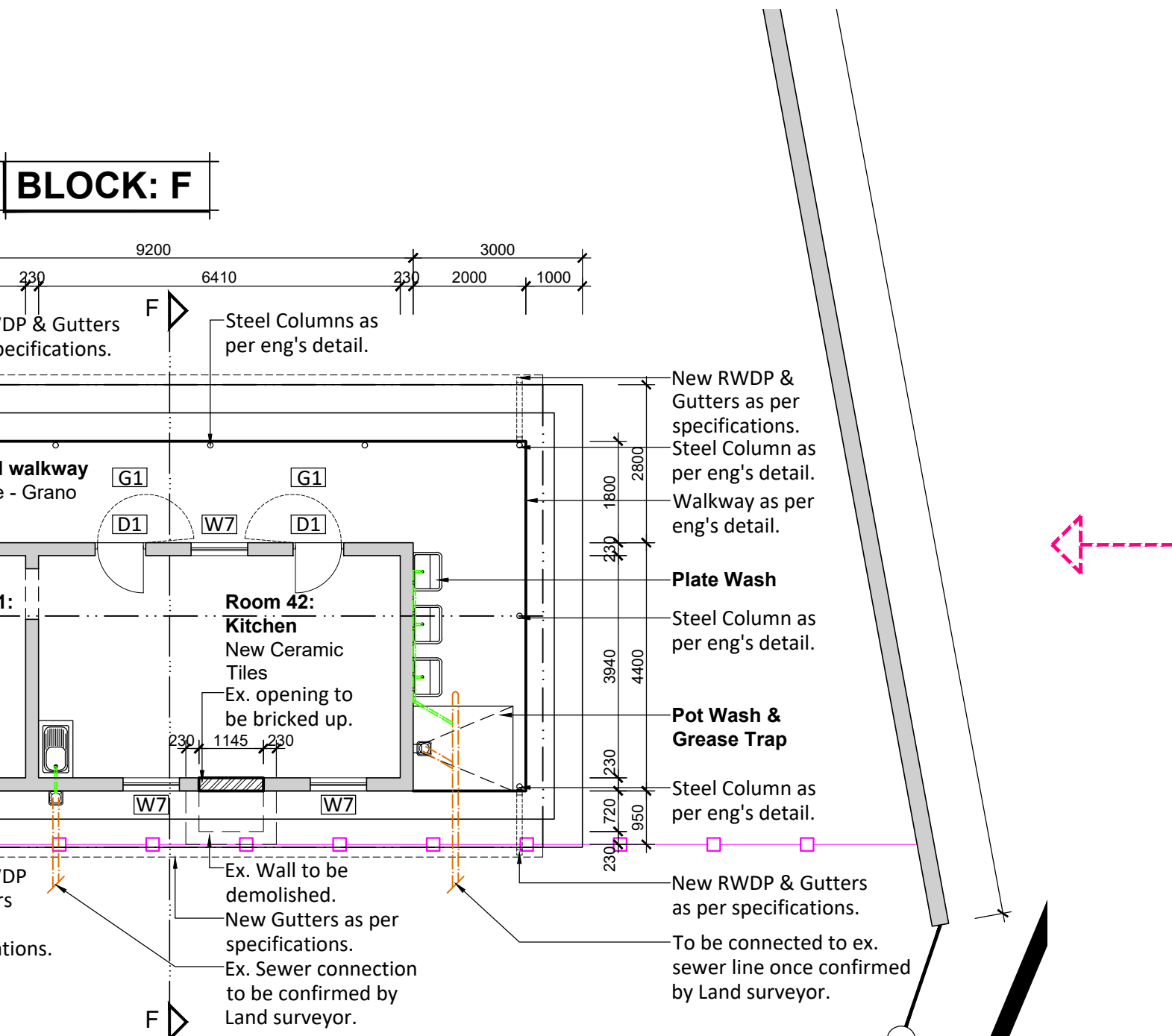


SECTION F-F - BLOCK - F
Umbelebele High School:
1:100

SOUTH ELEVATION - BLOCK - F
Umbelebele High School:
1:100



NORTH ELEVATION- BLOCK - F
Umbelebele High School:
1:100



GROUND STOREY LAYOUT - BLOCK - F
Umbelebele High School:
1:100

Roof Sheetting:
Roof Pitch: 15°

Safintra / Brown Build (or similar & approved) 0.58mm thick AZ150G550 painted (ZincAL) IBR profile roof sheeting with pre-painted factory finish, fixed with leak king roofing screws, holes for roofing screws to be drilled **not** punched, class 3 metal self drilling screws at every second crest at intermediate purlins & at every crest at eave purlins. All screw / fasteners must have a rubber washer (EPDM) seal. All fixings must be along the centre of the crest & perpendicular to the purlin. Ends of the sheeting to be bent to form stop ends. Mastic sealant at junction between roof sheeting & polyclosures. Determine direction of wind before laying sheets. Sheets to project a minimum of 50mm beyond purlins at eaves. Sheets to be fixed to 76mm high x 50mm wide timber purlins at max. of 1100mm centres on trusses at max. of 1250mm centres to be strapped to 114w x 38mm wall-plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built 600mm into brickwork coursing. Prefabricated cleated roof trusses to be in accordance with the roof manufacturers specifications as approved by the roof manufacturers engineer, 114 x 38mm rafters and ties, 114 x 38mm intermediate members. Roof manufacture must provide workshop drawings for approval and stability certificate. Sisalation 'RSA 420' double sided heavy duty industrial grade aluminum foil based insulation underlay over trusses and under purlins on pvc coated straining wires. Insulation sheeting laid taut under purlins and fixed concurrent with roof covering with minimum 150mm stapled laps including steel straining wires at not exceeding 400mm centres and double sided tape at edges where required. Airgap as per SANS10400 Part XA, between sheeting and sisalation required. In addition, minimum 100mm Flexible fibre glass blanket, thermal insulation to be installed in the ceiling void between the brandering over the ceiling boards. Wind loading must be calculated by the roof manufacturers engineer & the necessary fixings to comply accordingly. Hurricane clips be used externally to secure purlins to trusses at eaves overhangs. Double wound 2.5mm diameter galvanised wire to secure purlins internally. All exposed roof timber (trusses, rafters, bracings & purlins) to be painted with 2 coats of ABE provonite (creosote) / carbolineum, before fixing of roof sheets, fascias and barge boards. Roof sheeting sample to be provided for approval. Roof sheeting must be installed in strict accordance with the manufacturers specifications & recommendations.

TR1 & TR2 roof truss certificates must be issued by the roof manufacturers engineers. Roof manufacturers engineers must carry out on site inspections of the installation of the roof during the installation for the roof. Roof sheeting can only be installed once the roof manufacturers engineer approves the installation of the roof trusses & purlins.

A FULL SET OF WORKSHOP DRAWINGS ARE REQUIRED FROM THE ROOF MANUFACTURE THAT MUST BE APPROVED BY THE ENGINEERS, PRIOR TO MANUFACTURE OR INSTALLATION.

Ridge Capping:

Ridge cap (girth = 462mm) at angle to match roof pitch. Mastic sealant to be used to seal all gaps at junction with roof sheeting & ridge cap. All screw / fasteners must have a rubber washer (EPDM) seal.

Gutter size:

(Longspan or similar & approved) Moulded Ogee 125mm wide x 100mm deep extruded seamless aluminum large sized gutters in continuous lengths to be measured & extruded on site. Gutters to be fixed with 32mm x 2.5mm internal hanger aluminum brackets at max 500mm centres. Fix the brackets onto the truss rafters & through the fascia boards. Also fix onto fascia boards between the rafter spans. Gutter must be laid to fall to rain water down pipes. 290w x 100h x 105w Gutter funnel outlets to be installed at the rain water down pipe junction. Gutters to be pre-painted double coated Polymer Silicon baked enamel finish with a 10 year guarantee against rust, corrosion, peeling and flaking must be provided by the manufacturer. (colour to match existing gutters = White). Stop ends to match the gutter size & profile. They are to be crimped onto the OGEE gutter and sealed on the inside with Dow Corning 813 silicone sealer. Allow for Ogee gutters at angle bends with internal mitre brackets.

RWDP size:

100x75mm aluminum rwdp with complete installation fixtures & attachments. Down pipe to be connected into the gutter funnel. Down pipe bends & shoes to be provided. Purpose made spreader (300mm length) to be fitted to the end of the down pipe in all areas that have storm-water channels with sumps, (this is to avoid the water from spilling over the channel. RWDP's to be fixed to the walls/ Round steel columns with 100mm square bracket to suit the down pipe. Colour to match the down pipe. RWDP colour: To match existing = White.

Fascia Boards:

Everite Nutec medium density (un-grooved) 10 x 225mm pressed fibre cement fascia boards. Galvanised steel 'H-profile' jointing strips. Fascia boards to be fixed directly onto the rafters with self treading gms wood screws with gms washers. All screw heads must be coated with a rust-resistant undercoat before painting. Joints of Nutec Fascia boards should not be made at the fixing points but between the span of the boards. Where necessary, additional batten supports to be fixed to the rafters to support the fascia & to allow for additional fixing points. Boards to be prepared to receive a water based paint.

Barge Boards:

Everite Nutec medium density (un-grooved) 'L' shaped 10x80x275mm pressed fibre cement barge boards. Galvanised steel 'H-profile' jointing strips. Leveling purlin / batten to be fixed to each purlin to create a straight line so that the barge boards to be fixed onto the supporting purlin with self treading gms wood screws with gms washers. All screw heads must be coated with a rust-resistant undercoat before painting. All screw / fasteners must have a rubber washer (EPDM) seal. Joints of Nutec barge boards should not be made at the fixing points but between the span of the boards. Where necessary, additional batten supports to be fixed to the purlins to support the barge boards & to allow for additional fixing points. Double joiner strip to be provided at the apex of the barge board. Boards to be prepared to receive a water based paint.

A FULL SET OF WORKSHOP DRAWINGS ARE REQUIRED FROM THE ROOF MANUFACTURE THAT MUST BE APPROVED BY THE ENGINEERS, PRIOR TO MANUFACTURE OR INSTALLATION.


Please Note:

- For General Notes please refer to **Drawing Number - 14-04**.
- All measurements are for reference purposes only.

REV	DATE	DESCRIPTION	NAME
A	19/11/27	Issued to Q.S for BOQ.	T. Nadasen

PROJECT MANAGERS	
	2 LATINA PLACE WESTVILLE, 3629 P.O. BOX 1788 WESTVILLE 3630 TEL 031 -266 8345/65 FAX 031 -266 8336

IMPLEMENTING AGENT	
	DBSA Development Bank of Southern Africa

CLIENT	
	education Department: Education PROVINCE OF KWAZULU-NATAL

EMIS No.	500286898			
COORDINATES:	29°58'35.86"S 30°53'51.28"E			
SCHOOL NAME:	UMBELEBELE HIGH SCHOOL			
PROPERTY DESCRIPTION:	Mango Circle, Umlazi, Durban, 4031			
PROJECT	STORM DAMAGES (PHASE 17)			
DISCIPLINE	ARCHITECTURE			
DRAWING TITLE	BLOCK F: FLOOR PLAN, SECTIONS & ELEVATIONS PROPOSED PRIMARY SCOPE			
	RESPONSIBLE PERSON	DATE	SIGN	SHEET SIZE
DESIGNED	-	-		A1
DRAWN	-	-		SCALE AS SHOWN
CHECKED	-	-		SHEET
APPROVED				
DRAWING STATUS CODES : R = REPORT T = TENDER C = CONSTRUCTION P = PRELIMINARY A = AS BUILT S = SUBMISSION				
DRAWING INFORMATION		MCI PROJECT DRG No.		
DISCIPLINE	PROJ. No	DWG No	STATUS	REV
ARCHITECTURE	117	14-09	T	A

KEY PLAN - BLOCK - F
Umbelebele High School:
1:1000

