

"Helping Build Communities"



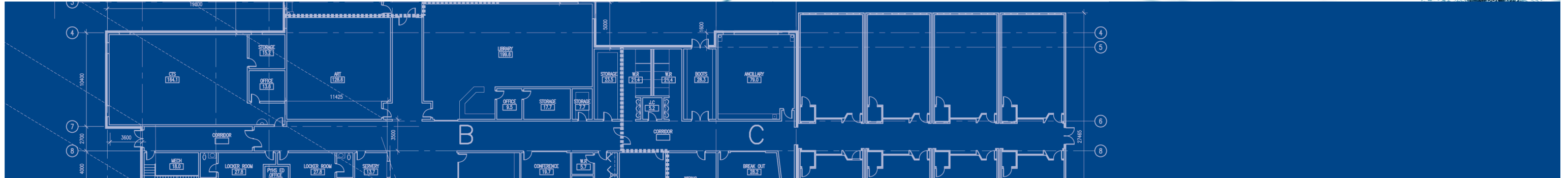
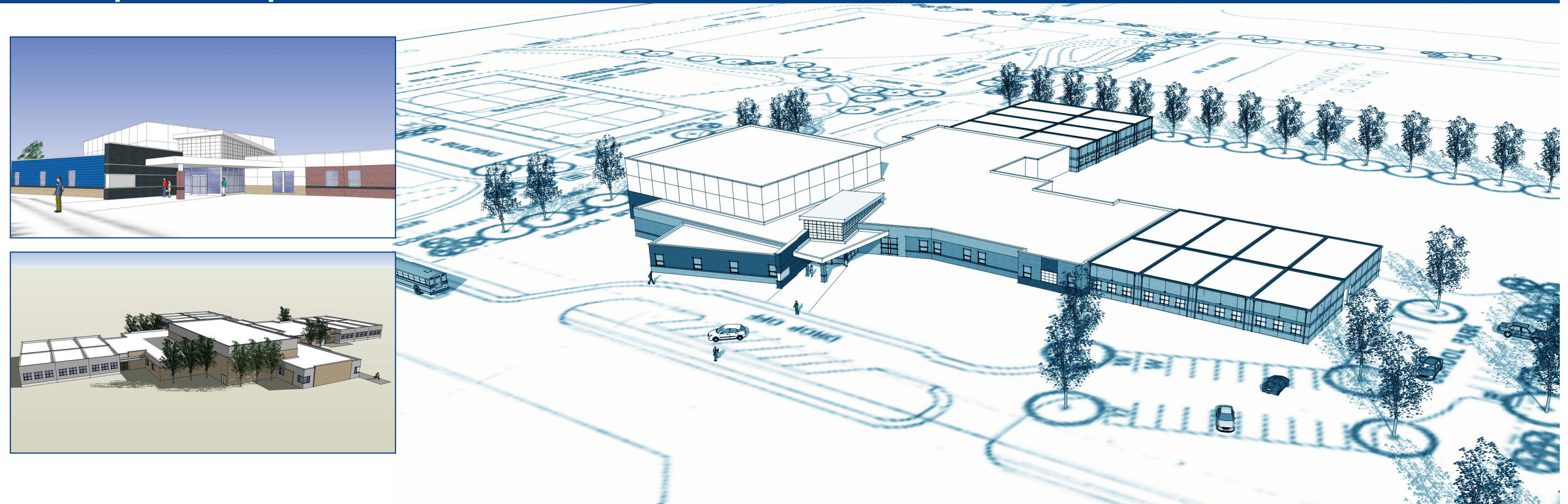
ARCHITECTS
& INTERIOR
DESIGNERS

PROPOSED NEW K-9 (600 STUDENTS) CORE SCHOOL

Project No. 27339

Design Development Report

November 12, 2007



Alberta Infrastructure and Transportation

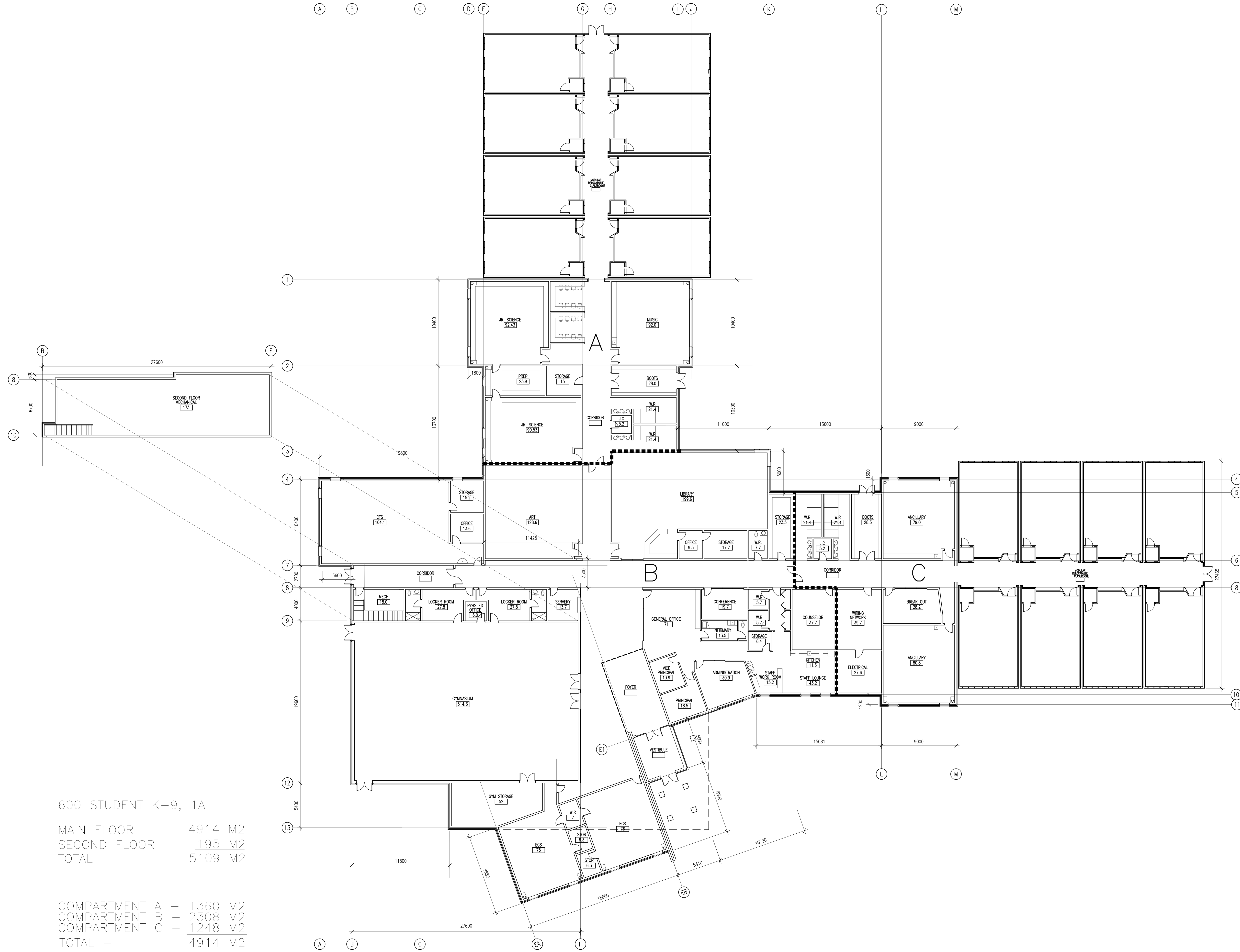
**BARR
RYDER**

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ENGINEERING INC.
HEMISPHERE
CONSULTING ENGINEERS
EDMONTON CALGARY ALBERTA

**PROSTATIX
ENGINEERING
CONSULTANTS INC.**

Alberta
INFRASTRUCTURE AND
TRANSPORTATION



600 STUDENT K-9, 1A

MAIN FLOOR 4914 M2
SECOND FLOOR 195 M2
TOTAL - 5109 M2

COMPARTMENT A - 1360 M2
COMPARTMENT B - 2308 M2
COMPARTMENT C - 1248 M2
TOTAL - 4914 M2

NO	DATE	DESCRIPTION
1	2007/10/31	ISSUED FOR FINAL DESIGN DEVELOPMENT

REVISIONS

SEAL / PERMIT

PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

ALBERTA

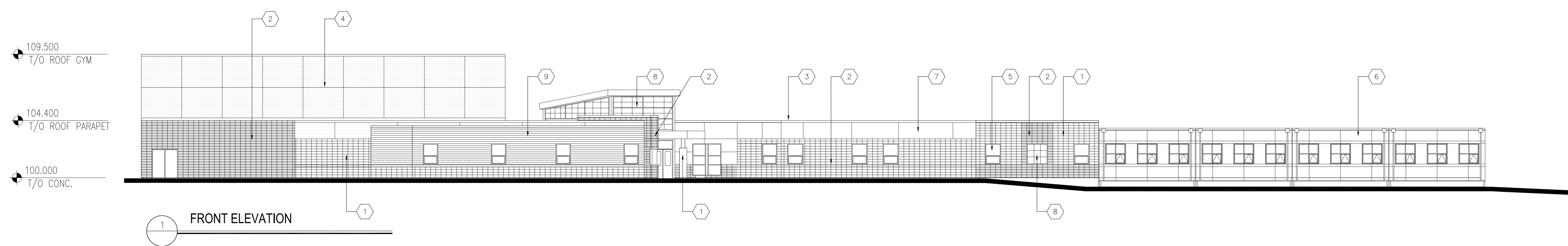
SHEET TITLE
**MAIN FLOOR PLAN
RATINGS**

Drawn: CJP Checked: S. Bushnell
Project No.: 27339 Date: 05 SEPTEMBER 2007

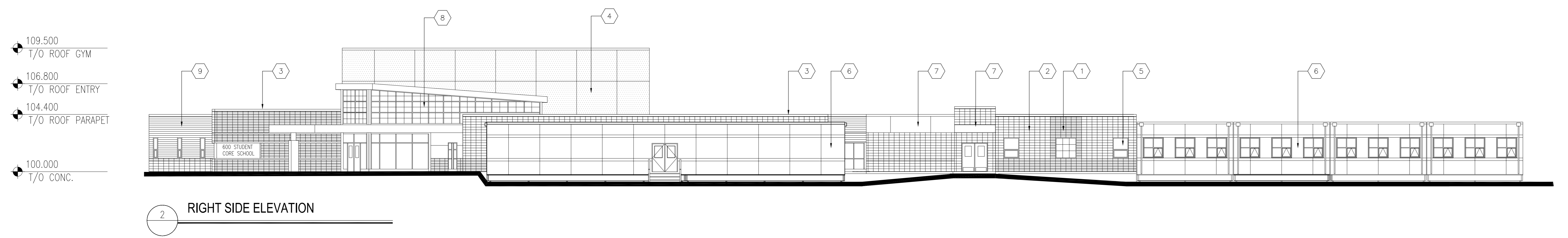
Scale: 1:150 Sheet No.: **A201**

KEYNOTES THIS SHEET ONLY:

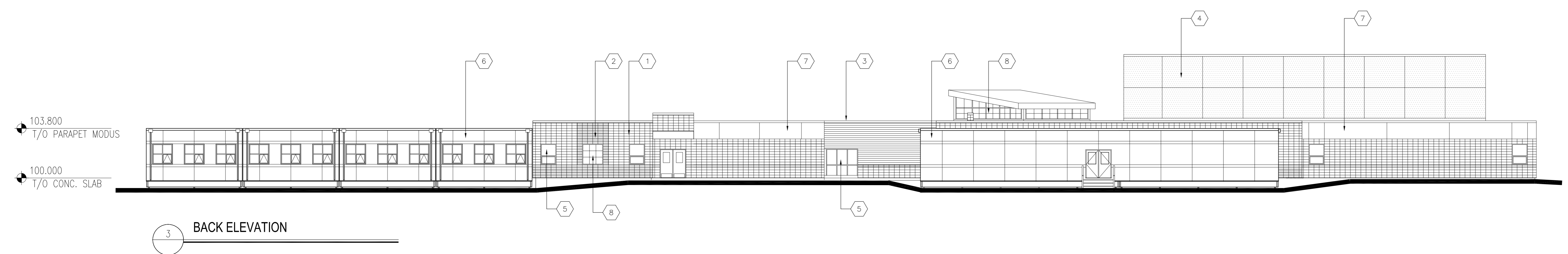
- ① PREFINISHED CONCRETE MASONRY
- ② PREFINISHED CONCRETE MASONRY ACCENT
- ③ PRE FINISHED METAL FLASHING
- ④ EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
- ⑤ DOUBLE GLAZED, THERMAL, ALUMINUM ANODIZED WINDOWS
- ⑥ PRE FINISHED CEMENTITIOUS PANEL
- ⑦ PRE FINISHED METAL PANEL
- ⑧ TRANSLUCENT WALL PANEL
- ⑨ PRE FINISHED CEMENTITIOUS BOARD



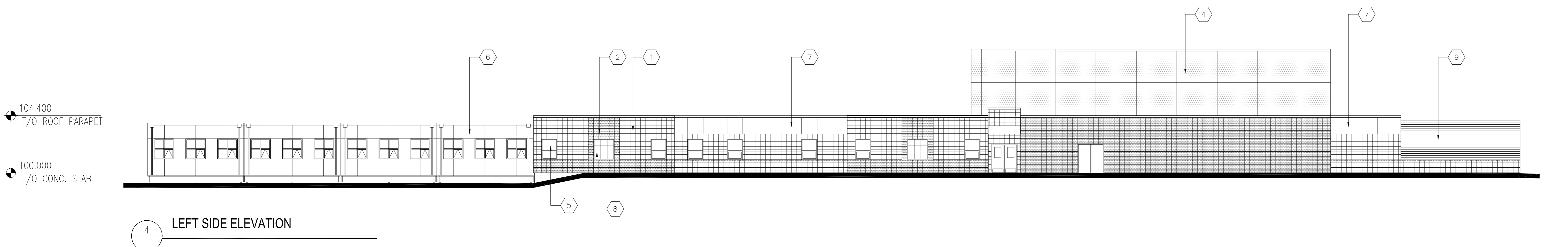
FRONT ELEVATION



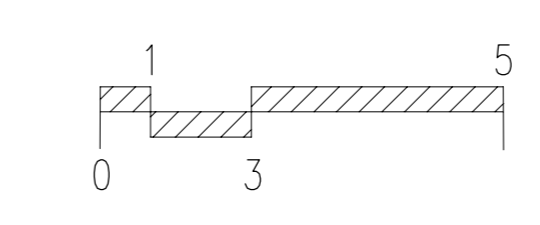
RIGHT SIDE ELEVATION



BACK ELEVATION



LEFT SIDE ELEVATION



NO	DATE	DESCRIPTION
1	2007/10/30	ISSUED FOR FINAL DESIGN DEVELOPMENT

REVISIONS

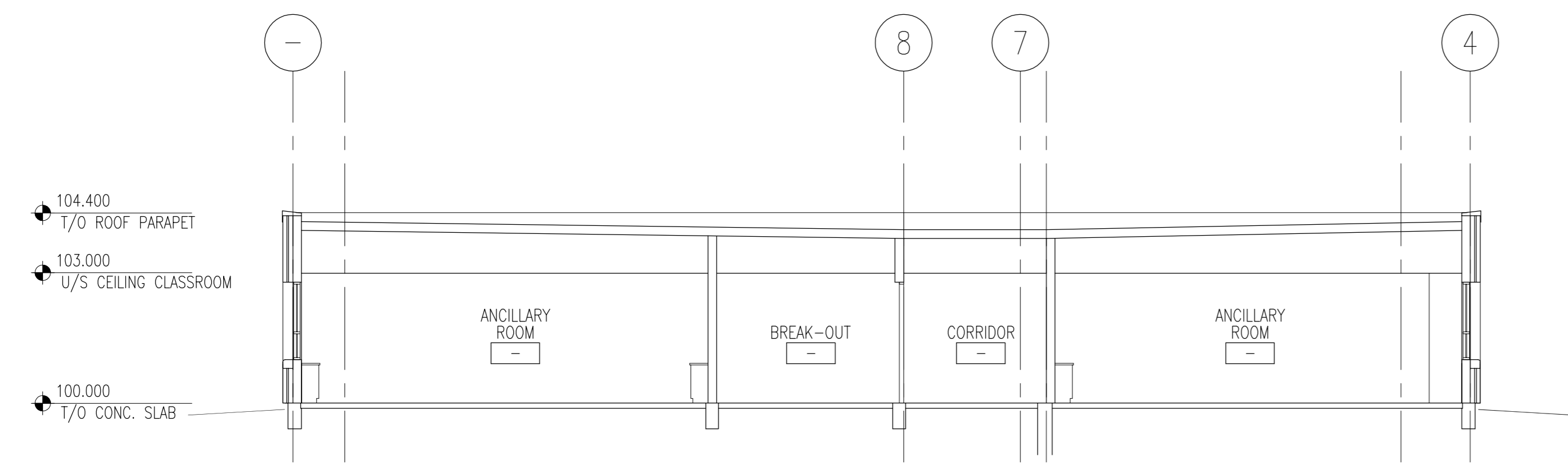
SEAL / PERMIT

PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

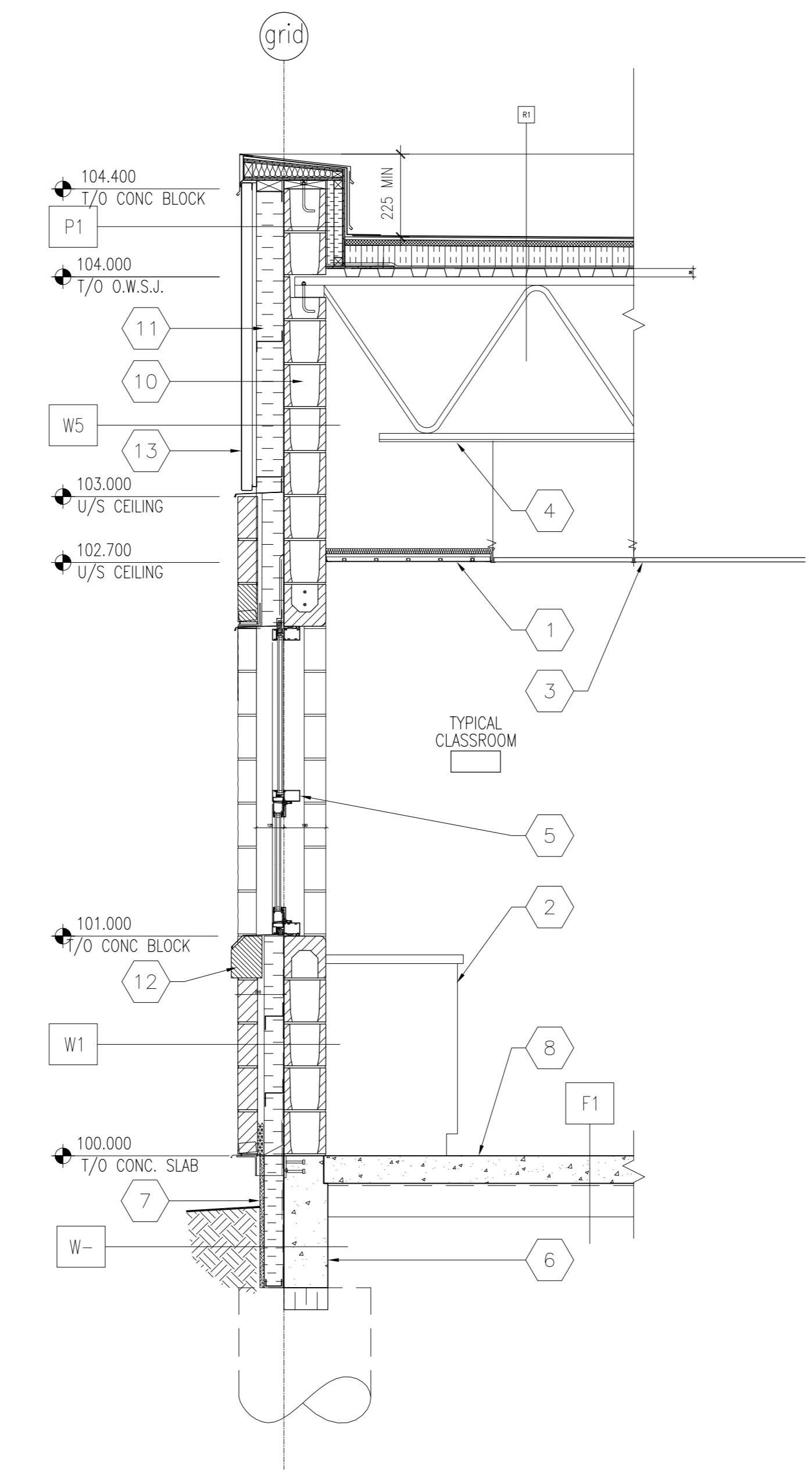
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SHEET TITLE
**BUILDING
ELEVATIONS**

Drawn CP	Checked S.Bushnell
Project No. 27339	Date 05 SEPTEMBER 2007
Scale 1:150	Sheet No. A301



2 SECTION THRU ANCILLARY AND CORRIDOR
1:100



1 TYPICAL CLASSROOM WING WINDOW WALL SECTION
A405
1:20

KEYNOTES THIS SHEET ONLY:

- 1 SUSPENDED RADIANT HEAT PANEL
- 2 CABINET
- 3 SUSPENDED ACOUSTIC TILE CEILING
- 4 ROOF STRUCTURE SEE STRUCTURAL DRAWINGS
- 5 DOUBLE GLAZED THERMALLY BROKEN CLEAR ANOD. ALUM. CURTAINWALL FRAME WINDOW W/O PERABLE AWNING UNIT
- 6 CONCRETE GRADE BEAM ON CAISSONS
- 7 16mm CEMENT BOARD ON 50mm Z-BARS, 50mm RIGID INSULATION, AIR/VAPOUR BARRIER TO FACE OF GRADE BEAM
- 8 FLOOR STRUCTURE SEE STRUCTURAL DRAWINGS
- 9 90mm CONCRETE BLOCK VENEER
- 10 190mm CONCRETE BLOCK
- 11 125 mm RIGID INSULATION
- 12 140 mm CONCRETE CHAMFER BLOCK SILL
- 13 50mm STIFFENED METAL PANEL ON 19mm GALV. STL. BATTENS ON Z BAR FRAMING

ROOF TYPES:

- R1 SBS ROOF MEMBRANE
25mm FIBRE BOARD
POSITIVE SLOPED RIGID INSULATION (WHERE INDICATED SEE ROOF PLAN)
150mm MIN. RIGID INSULATION ON VAPOUR BARRIER MEMBRANE
13mm GYPSUM BOARD SHEATHING
38mm STEEL ROOF DECK ON STEEL STRUCTURE SLOPED TO DRAIN

WALL TYPES:

- W1 90mm ARCHITECTURAL BLOCK VENEER
30mm AIR SPACE
90mm RIGID INSULATION
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK
- W2 90mm ARCHITECTURAL BLOCK VENEER
30mm AIR SPACE
90mm RIGID INSULATION
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK
- W4 EPS RANSREEN SYSTEM
ACRILIC STUCCO FINISH ON 100mm RIGID INSULATION c/w MOISTURE DRAINAGE CHANNELS
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK
- W5 PRE-FINISHED STIFFENED 50mm ALUMINUM PANELS ON 19 mm SUBFRAMING ON GALV. Z BAR FRAMING, 100mm POLYISOCYANURATE INSULATION PEEL AND STICK AIR-VAPOUR AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK

PARAPET TYPES:

- P1 PREFINISHED METAL COPING FLASHING INCLUDING COUNTERFLASHING. CARRY SBS ROOF MEMBRANE FROM ROOF TO TOP OF WOOD COPING. 190 CONCRETE BLOCK AIR/VAPOUR BARRIER 50mm STIFFENED METAL PANEL ON 19 mm GALV. STEEL BATTENS AND Z GRT FRAMING 100mm RIGID INSULATION c/w MOISTURE DRAINAGE CHANNELS AIR/VAPOUR BARRIER MEMBRANE 190 CONCRETE BLOCK
- P2 PREFINISHED METAL COPING FLASHING INCLUDING COUNTERFLASHING. CARRY SBS ROOF MEMBRANE FROM ROOF TO TOP OF WOOD COPING. WOOD COPING TO CONSIST OF 13mm EXT. GRADE PLYWOOD ON PRESSURE TREATED WOOD BLOCKING ON 16mm EXTERIOR GRADE PLYWOOD FULL VOID WITH INSULATION. FASTENED TO EXTERIOR 13mm GYPSUM SHEATHING TO TOP TRACK OF METAL STUD. 38mm X 89mm PRESSURE TREATED WOOD BLOCKING FASTENED TO SHEATHING 90mm ARCHITECTURAL BLOCK 30mm AIR SPACE AIR/VAPOUR BARRIER MEMBRANE 15mm EXT. GYPSUM BOARD SHEATHING 152mm STEEL STUDS @ 400mm O.C. R20 BATT INSULATION 16mm ABUSE RESISTANT GYPSUM BOARD 38mm X 38mm PRESSURE TREATED WOOD STUD @ 400 O.C. FULL VOID W/ RIGID INSULATION ON 13mm EXTERIOR GRADE PLYWOOD TPO ROOF MEMBRANE

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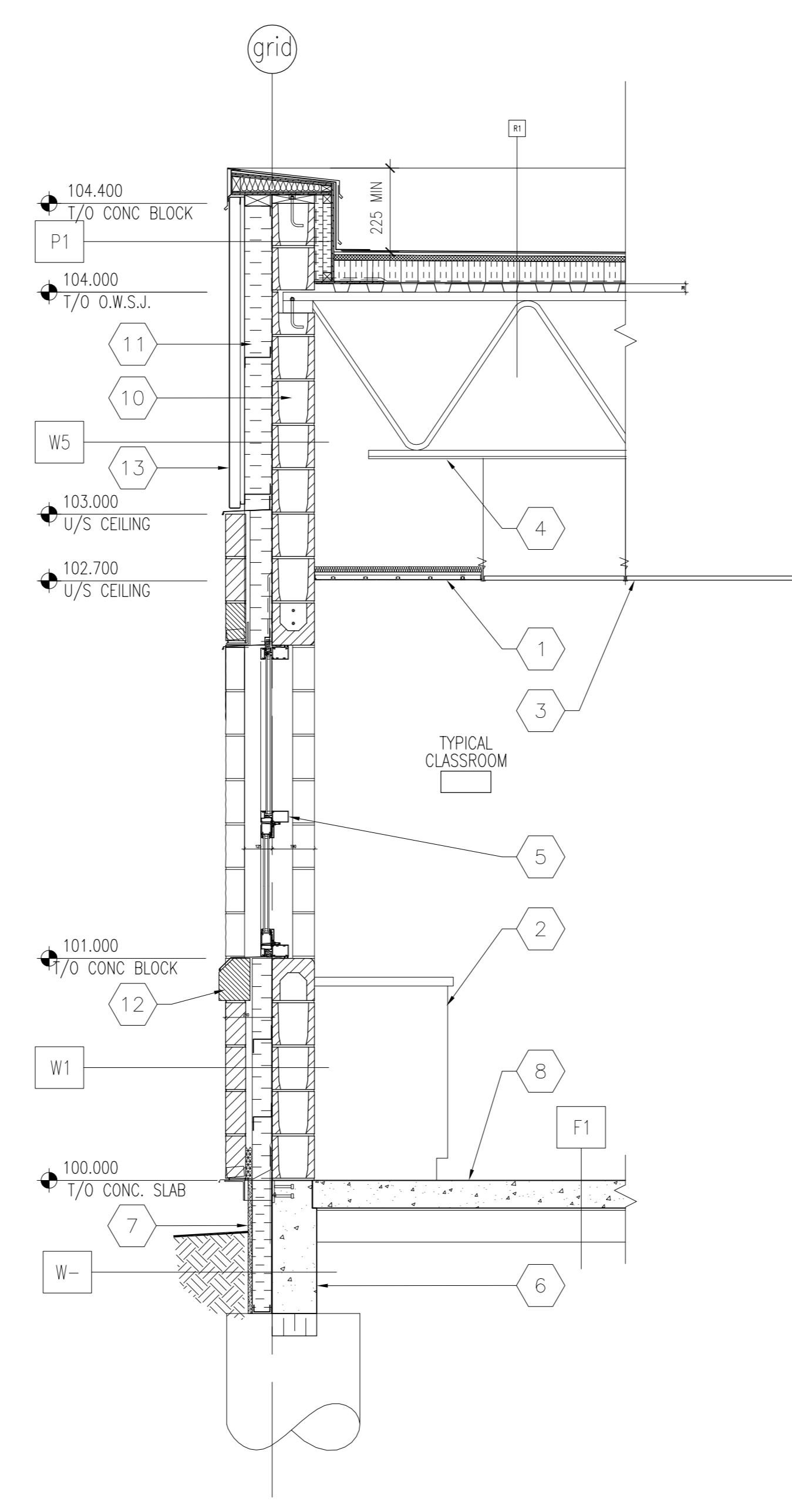
REVISIONS

SEAL / PERMIT

PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

SHEET TITLE
**BUILDING
SECTION**

Drawn	Checked
CP	SB
Project No.	Date
27339	Aug 15 2007
Scale	Sheet No.
AS SHOWN	A401



1 TYP. EXT WALL SECTION
A403 1:20

KEYNOTES THIS SHEET ONLY:

- 1 SUSPENDED RADIANT HEAT PANEL
- 2 CABINET
- 3 SUSPENDED ACOUSTIC TILE CEILING
- 4 ROOF STRUCTURE SEE STRUCTURAL DRAWINGS
- 5 DOUBLE GLAZED THERMALLY BROKEN CLEAR ANOD. ALUM. CURTAINWALL FRAME WINDOW W/OPERABLE ANNING UNIT CONCRETE GRADE BEAM ON CAISSONS
- 6 16mm CEMENT BOARD ON 50mm Z-BARS, 50mm RIGID INSULATION, AIR/VAPOUR BARRIER TO FACE OF GRADE BEAM
- 7 FLOOR STRUCTURE SEE STRUCTURAL DRAWINGS
- 8 90mm CONCRETE BLOCK VENEER
- 9 190mm CONCRETE BLOCK
- 10 125 mm RIGID INSULATION
- 11 140 mm CONCRETE CHAMFER BLOCK SILL
- 12 50mm STIFFENED METAL PANEL ON 19mm GALV. STL BATTENS ON Z BAR FRAMING

ROOF TYPES:

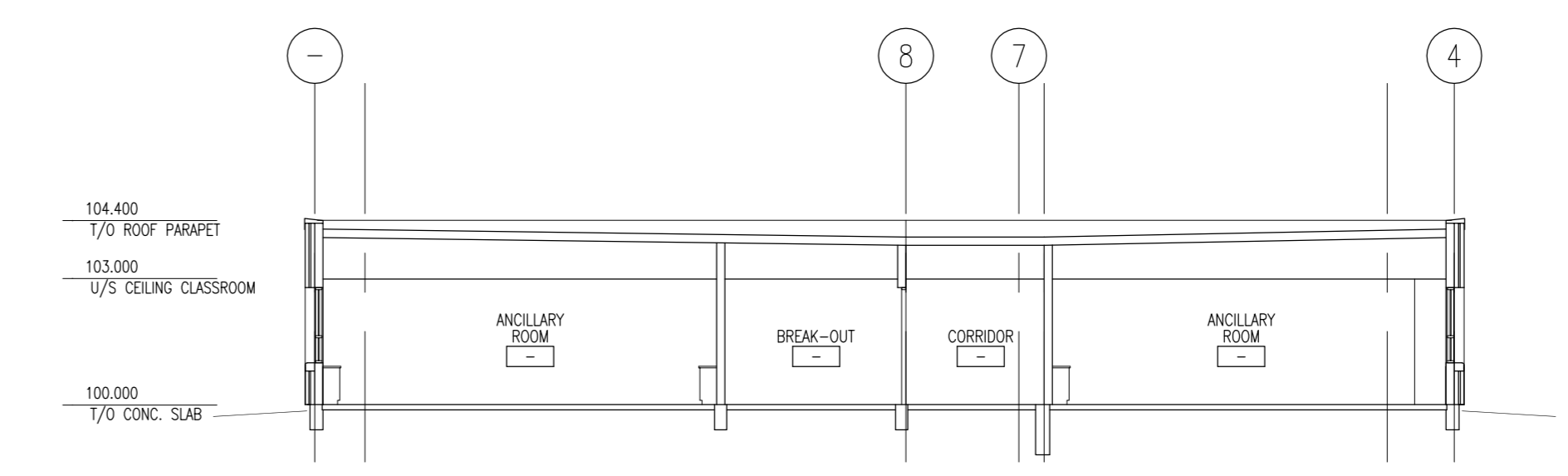
- R1 SBS ROOF MEMBRANE
25mm FIBRE BOARD
POSITIVE SLOPED RIGID INSULATION
(WHERE INDICATED SEE ROOF PLAN)
150mm MIN. RIGID INSULATION ON
VAPOUR BARRIER MEMBRANE
13mm GYPSUM BOARD SHEATHING
38mm STEEL ROOF DECK ON
STEEL STRUCTURE SLOPED TO DRAIN

WALL TYPES:

- W1 90mm ARCHITECTURAL BLOCK VENEER
30mm AIR SPACE
90mm RIGID INSULATION
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK
- W2 90mm ARCHITECTURAL BLOCK VENEER
30mm AIR SPACE
90mm RIGID INSULATION
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK
- W4 EPS RAINSCREEN SYSTEM
ACRYLIC STUCCO FINISH ON
100mm RIGID INSULATION c/w
MOISTURE DRAINAGE CHANNELS
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK
- W5 PRE-FINISHED STIFFENED 50mm ALUMINUM
PANELS ON 19 mm SUBRAMING ON
GALV. Z BAR FRAMING, 100mm
POLYISOCYANURATE INSULATION
PEEL AND STICK AIR-VAPOUR
AIR/VAPOUR BARRIER MEMBRANE
190mm CONCRETE BLOCK

PARAPET TYPES:

- P1 PREFINISHED METAL COPING FLASHING
INCLUDING COUNTERFLASHING.
CARRY SBS ROOF MEMBRANE FROM ROOF
TO TOP OF WOOD COPING.
190 CONCRETE BLOCK
AIR/ VAPOUR BARRIER
50mm STIFFENED METAL PANEL ON 19 mm
GALV. STEEL BATTENS AND Z GRIT FRAMING
100mm RIGID INSULATION c/w
MOISTURE DRAINAGE CHANNELS
AIR/VAPOUR BARRIER MEMBRANE
190 CONCRETE BLOCK
- P2 PREFINISHED METAL COPING FLASHING
INCLUDING COUNTERFLASHING.
CARRY SBS ROOF MEMBRANE FROM ROOF
TO TOP OF WOOD COPING.
WOOD COPING TO CONSIST OF
13mm EXT. GRADE PLYWOOD ON
PRESSURE TREATED WOOD BLOCKING
ON 16mm EXTERIOR GRADE PLYWOOD
FILL VOID WITH INSULATION.
FASTENED TO EXTERIOR 13mm GYPSUM SHEATHING
TO TOP TRACK OF METAL STUD.
38mm X 89mm PRESSURE TREATED WOOD BLOCKING
FASTENED TO SHEATHING
90mm ARCHITECTURAL BLOCK
30mm AIR SPACE
AIR/VAPOUR BARRIER MEMBRANE
13mm EXT. GYPSUM BOARD SHEATHING
152mm STEEL STUDS @ 400mm O.C.
R20 BATT INSULATION
16mm ABUSE RESISTANT GYPSUM BOARD
38mm X 38mm PRESSURE TREATED WOOD
STUD @ 400 O.C.
FILL VOID W/ RIGID INSULATION ON
13mm EXTERIOR GRADE PLYWOOD
TPO ROOF MEMBRANE



2 SECTION THRU ANCILLARY AND CORRIDOR
A403 1:150

NO	DATE	DESCRIPTION
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REVISIONS

SEAL / PERMIT

PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

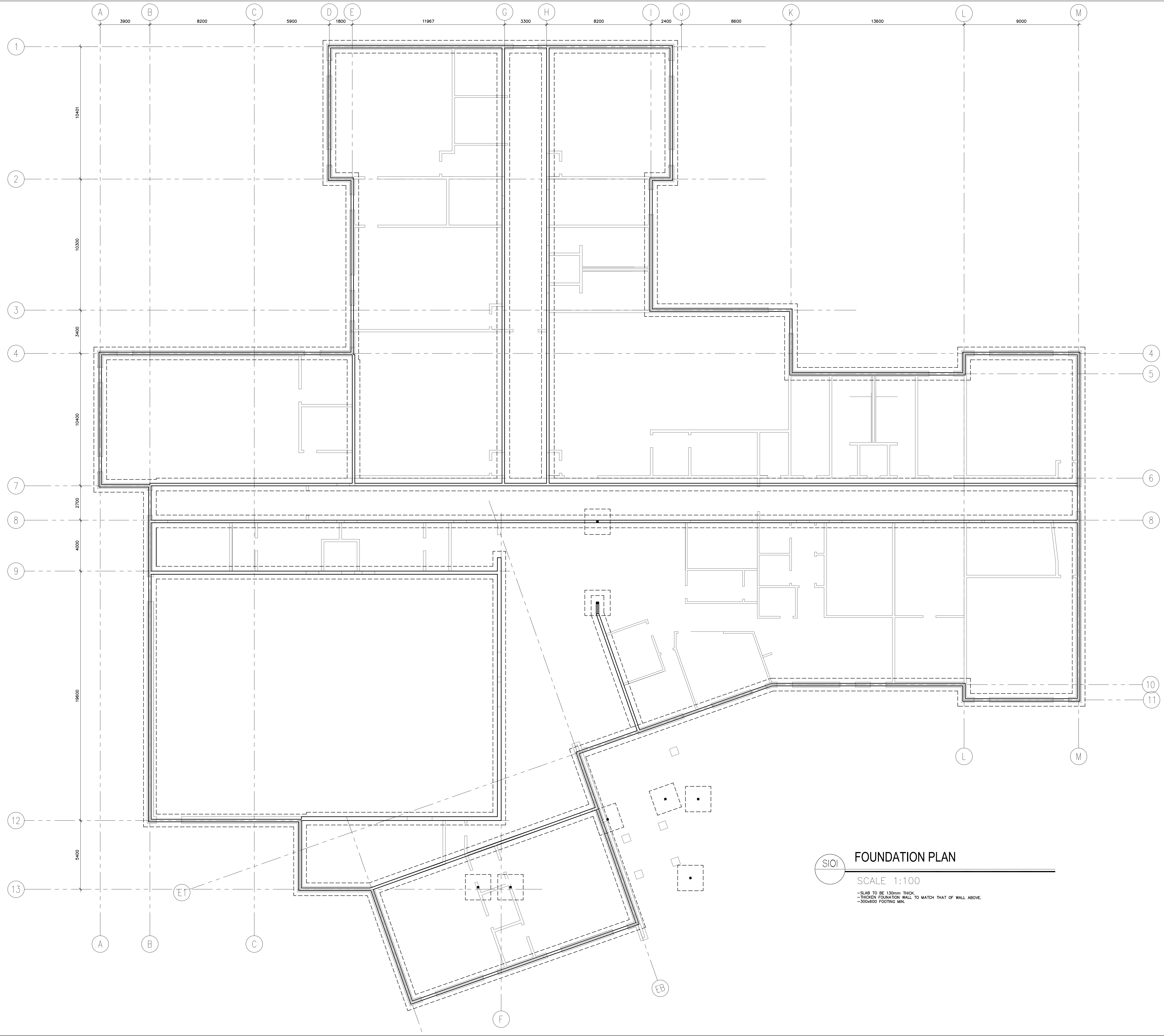
ALBERTA

SHEET TITLE
WALL SECTION

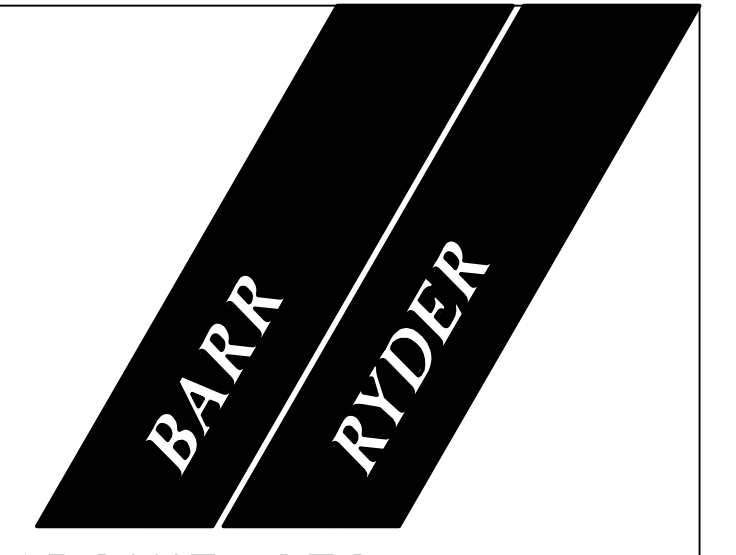
Drawn CP Checked SB

Project No. 27385 Date Aug 31 2007

Scale 1:20 Sheet No. **A403**



FOUNDATION PLAN
 SCALE 1:100
 -SLAB TO BE 130mm THICK.
 -THICKEN FOUNDATION WALL TO MATCH THAT OF WALL ABOVE.
 -300x600 FOOTING MIN.



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PROJECT
**600 STUDENT
 K-9 CORE SCHOOL**
 ALBERTA

SHEET TITLE
FOUNDATION PLAN

Drawn	Checked
DAC	CAL
Project No.	Date
07-2287	OCT 31/07
Scale	Sheet No.
1:100	S101



S201 ROOF FRAMING PLAN
SCALE 1:100



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PROJECT
600 STUDENT
K-9 CORE SCHOOL

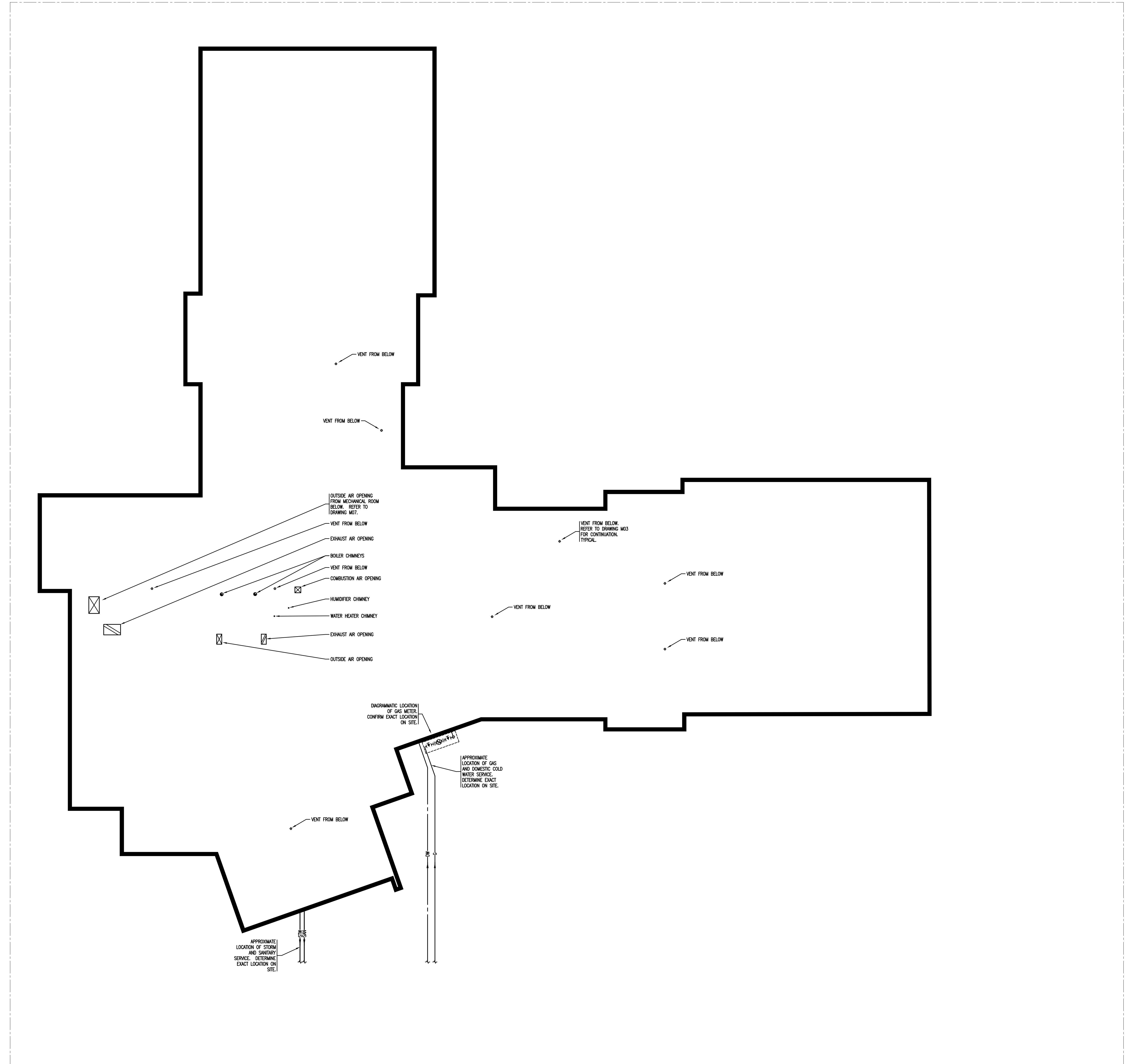
ALBERTA

SHEET TITLE
ROOF FRAMING PLAN

Drawn	Checked
DAC	CAL
Project No.	Date
07-2287	OCT 31/07
Scale	Sheet No.
1:100	

S201

MECHANICAL LEGEND	
ELBOW RISING	
TOP TAKEOFF	
BOTTOM TAKEOFF	
ELBOW DROPPING	
SHUTOFF VALVE	
SHUTOFF VALVE VERTICAL MOUNT	
THROTTLING VALVE	
CHECK VALVE	
PLUG VALVE	
2-WAY CONTROL VALVE	
3-WAY CONTROL VALVE	
MECHANICAL PRESSURE REDUCING VALVE	
RELIEF VALVE	
UNION OR FLANGE	
FLEXIBLE CONNECTION	
AUTOMATIC AIR VENT	
STRAINER	
CAP OR PLUG	
PUMP	
NEW THERMOSTAT/THERMOSTAT C/W GUARD	
SWITCH	
THERMOMETER/THERMOMETER & PRESSURE WELL	
PRESSURE GAUGE/PRESSURE TAP	
FLOW METER	
FLOW SWITCH	
FIRE EXTINGUISHER C/W CABINET (TYPE NOTED)	
FIRE HOSE CABINET	
SIAMOSE CONNECTION	
SANITARY DRAIN	
STORM DRAIN	
VENT PIPE	
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER REDIRC.	
GAS-LOW PRESSURE	
CLEANOUT	
FLOOR DRAIN	
HUB DRAIN	
ROOF DRAIN	
PLUMBING FIXTURE (TYPE NOTED)	
REDUCED BACKFLOW PRESSURE ASSEMBLY	
SANITARY VENT CAP	
RUNNING TRAP	
P-TRAP	
FIRE HYDRANT	
MANHOLE	
CATCH BASIN	
SUPPLY DUCT (UP & DOWN)	
RETURN DUCT (UP & DOWN)	
EXHAUST (UP & DOWN)	
ROUND DUCT (UP & DOWN)	
FLEXIBLE DUCT CONNECTION	
BALANCING DAMPER	
OPPOSED BLADE DAMPERS	
MOTORIZED DAMPER	
SUPPLY OUTLET	
DIFFUSER	
RETURN OR EXHAUST INLET (WALL TYPE)	
FIRE DAMPER OR SMOKE DAMPER	
TURNING VANES	
ACOUSTIC LINED DUCTWORK	
ACCESS DOOR	
AIR OUTLET OR INLET	
RADIANT PANEL	
RADIATION	



MECHANICAL BLOCK PLAN
SCALE: 1:200

NO	DATE	DESCRIPTION
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**600 STUDENT
K-9 CORE SCHOOL**

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SHEET TITLE
**MECHANICAL
BLOCK PLAN**

Drawn
VMH/MJR

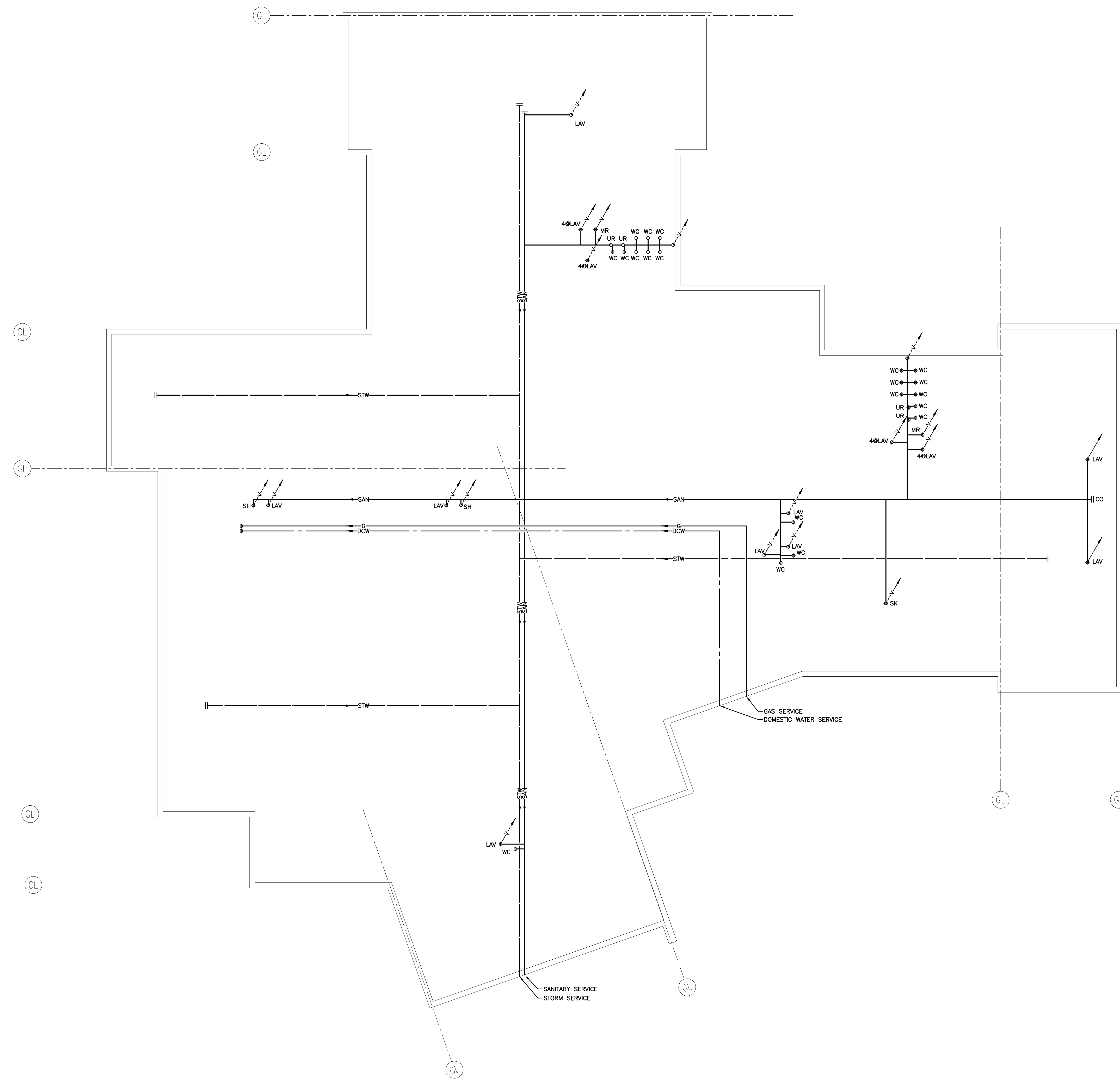
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D.J.C

Project No.
E07174

Date
September 18, 2007

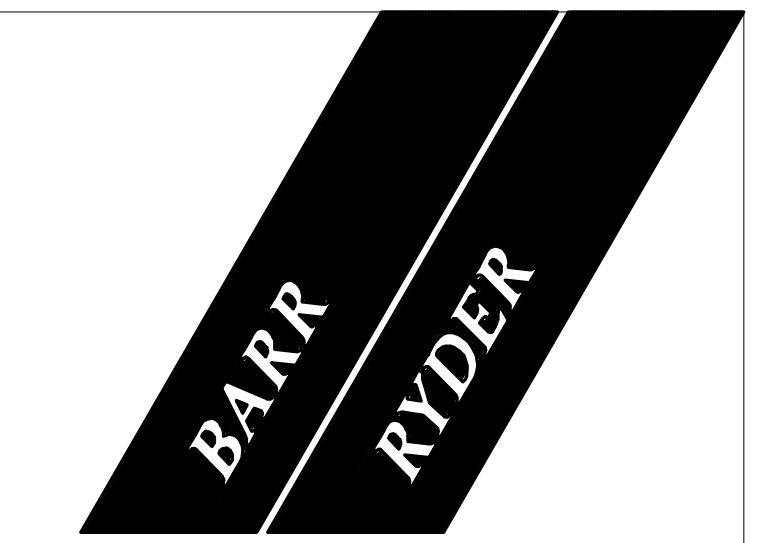
Scale
1:200

Sheet No.
M01



MECHANICAL FOUNDATION PLAN
SCALE: 1:150

GENERAL NOTES:
UNLESS OTHERWISE NOTED,
SANITARY BRANCHES TO
LAVATORIES, URINALS, AND SINKS
500R. SANITARY BRANCHES TO
WATER CLOSETS AND FLOOR
DRAINS 100R. ALL VENTS
FROM FOUNDATION 50R.



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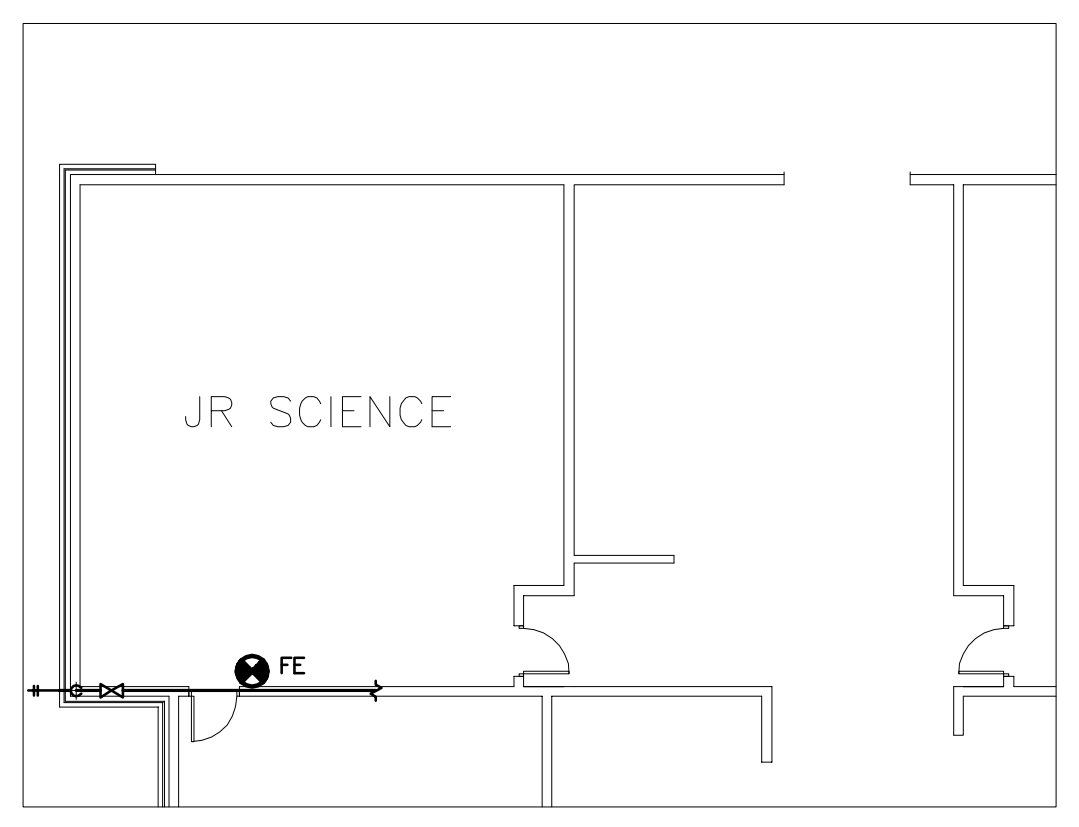
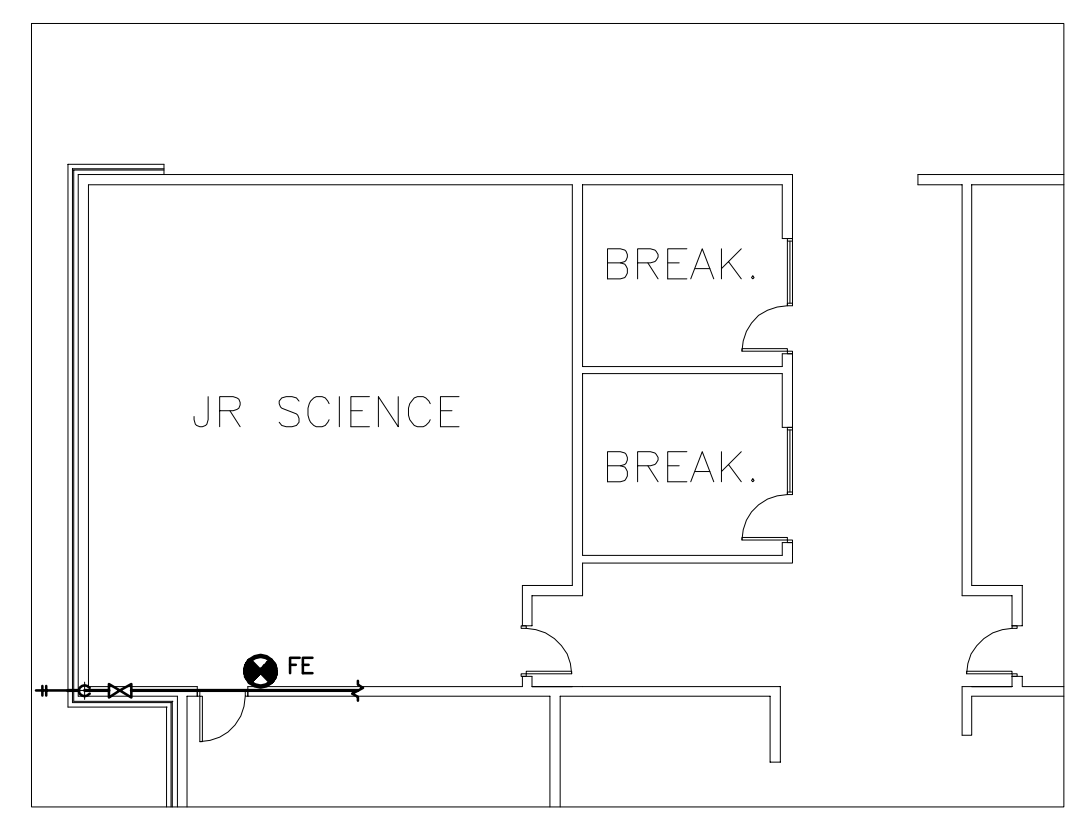
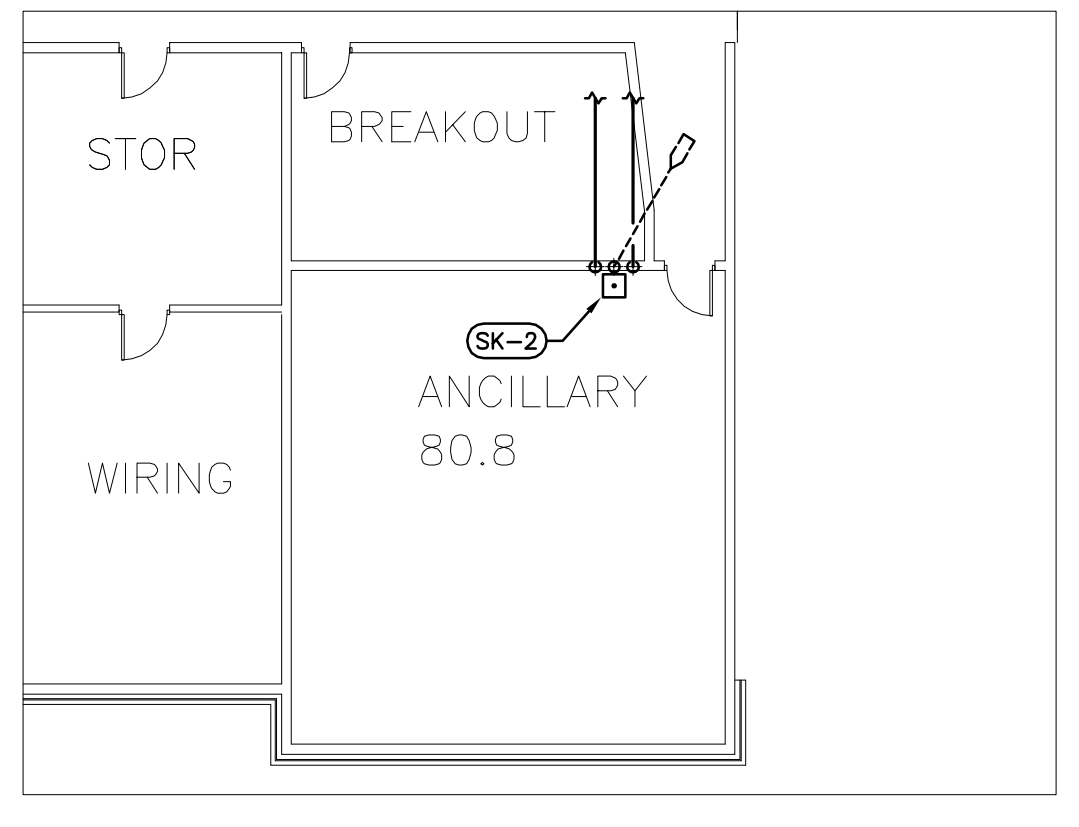
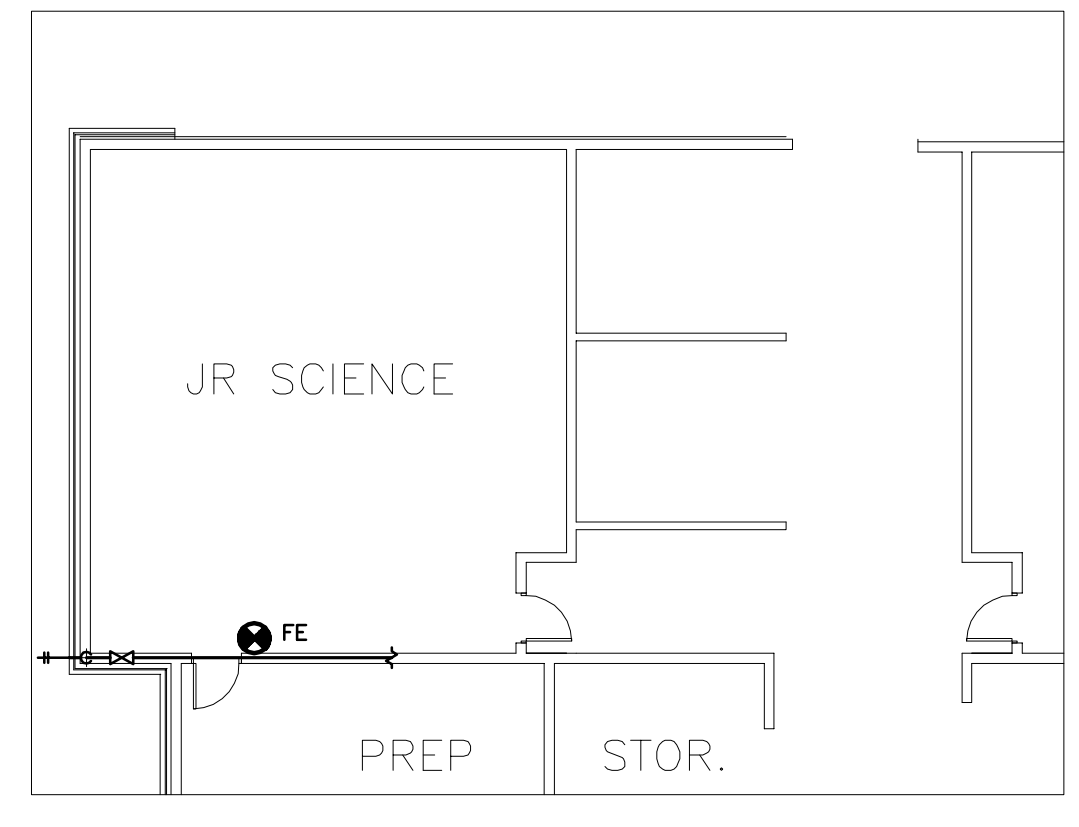
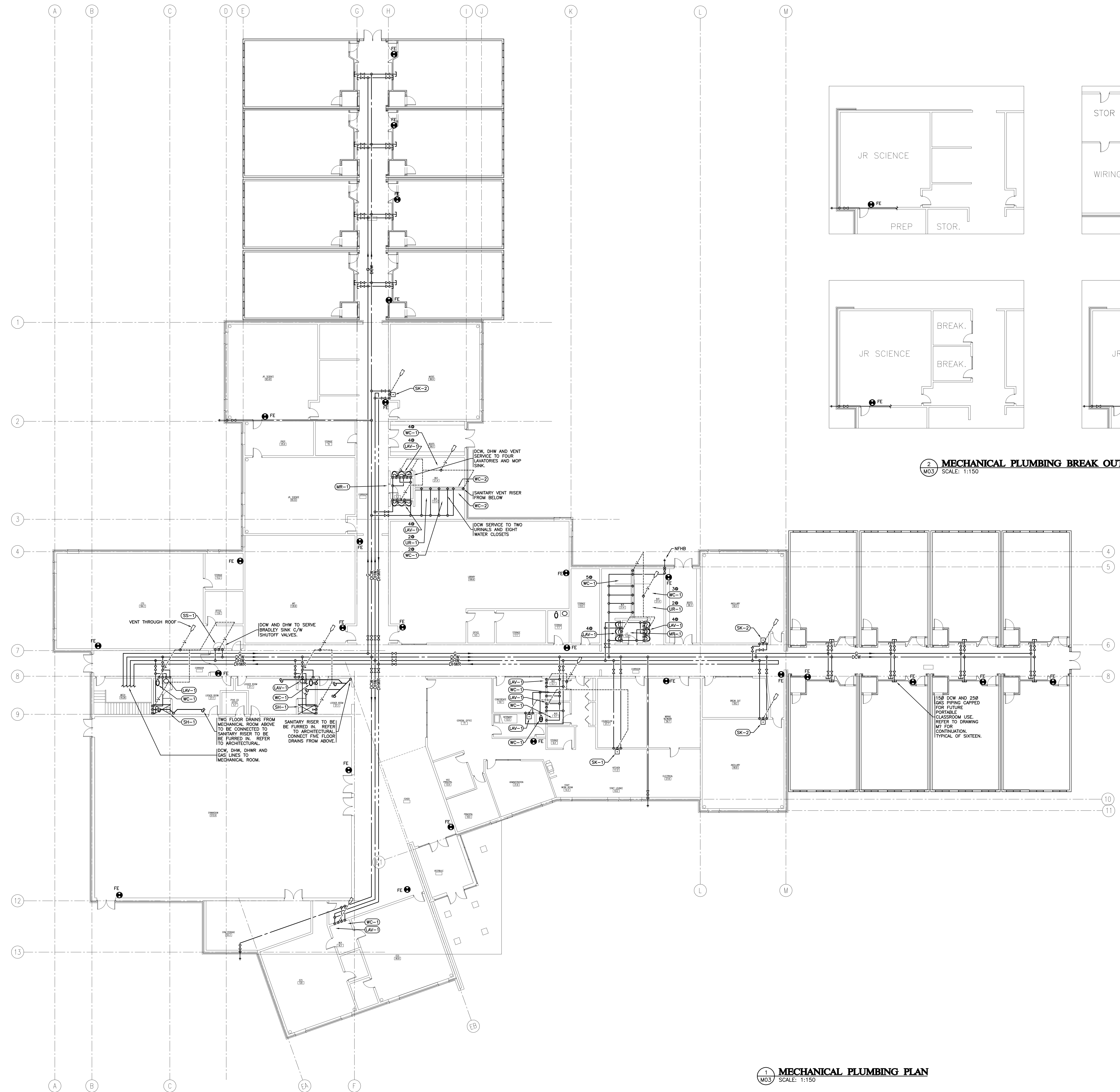
REVISIONS

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PROJECT
600 STUDENT
K-9 CORE SCHOOL

SHEET TITLE
FOUNDATION
PLAN

Drawn WMH/MJR	Checked DJC
Project No. E07174	Date September 18, 2007
Scale 1:150	Sheet No. M02



2 MECHANICAL PLUMBING BREAK OUT OPTIONS
M03 SCALE: 1:150

1 MECHANICAL PLUMBING PLAN
M03 SCALE: 1:150

NO	DATE	DESCRIPTION
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REVISIONS

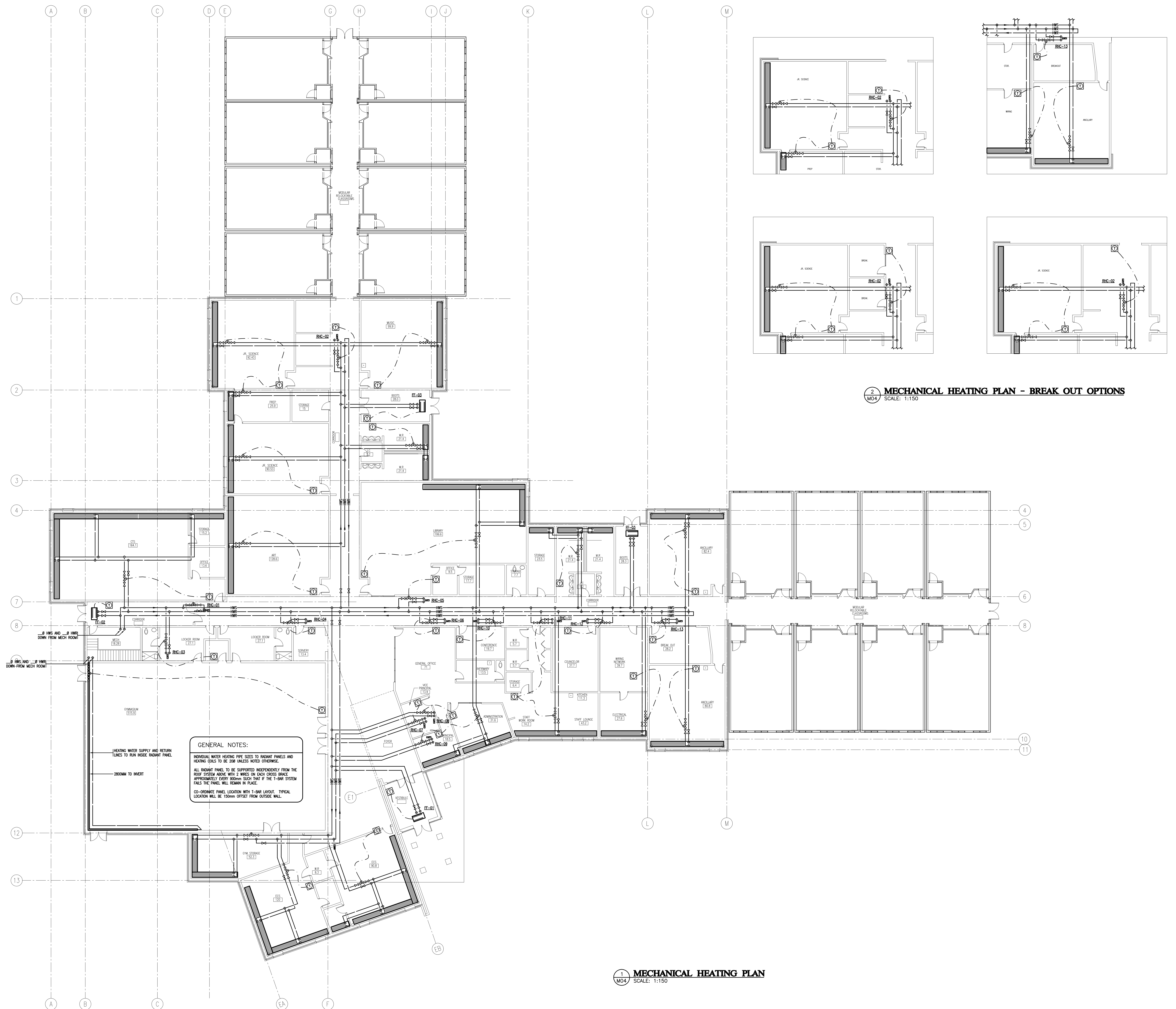
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PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

SHEET TITLE
PLUMBING PLAN

Drawn WMH/MJR	Checked DJC
Project No. E07174	Date September 18, 2007
Scale 1:150	Sheet No. M03

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2 MECHANICAL HEATING PLAN - BREAK OUT OPTIONS
M04 SCALE: 1:150

1 MECHANICAL HEATING PLAN
M04 SCALE: 1:150

GENERAL NOTES:
INDIVIDUAL WATER HEATING PIPE SIZES TO RADIANT PANELS AND HEATING COILS TO BE 200 UNLESS NOTED OTHERWISE.
ALL RADIANT PANELS TO BE SUPPORTED INDEPENDENTLY FROM THE ROOF SYSTEM ABOVE WITH 2 WINGS ON EACH CROSS SPACE, APPROXIMATELY EVERY 900mm (36") THAT IF THE T-BAR SYSTEM FAILS THE PANEL WILL REMAIN IN PLACE.
CO-ORDINATE PANEL LOCATION WITH T-BAR LAYOUT. TYPICAL LOCATION WILL BE 150mm OFFSET FROM OUTSIDE WALL.

HEATING WATER SUPPLY AND RETURN LINES TO RUN INSIDE RADIANT PANEL.
2800MM TO INVERT

8 WWS AND 8 WRS DOWN FROM MECH ROOM
9 WWS AND 9 WRS DOWN FROM MECH ROOM

NO	DATE	DESCRIPTION
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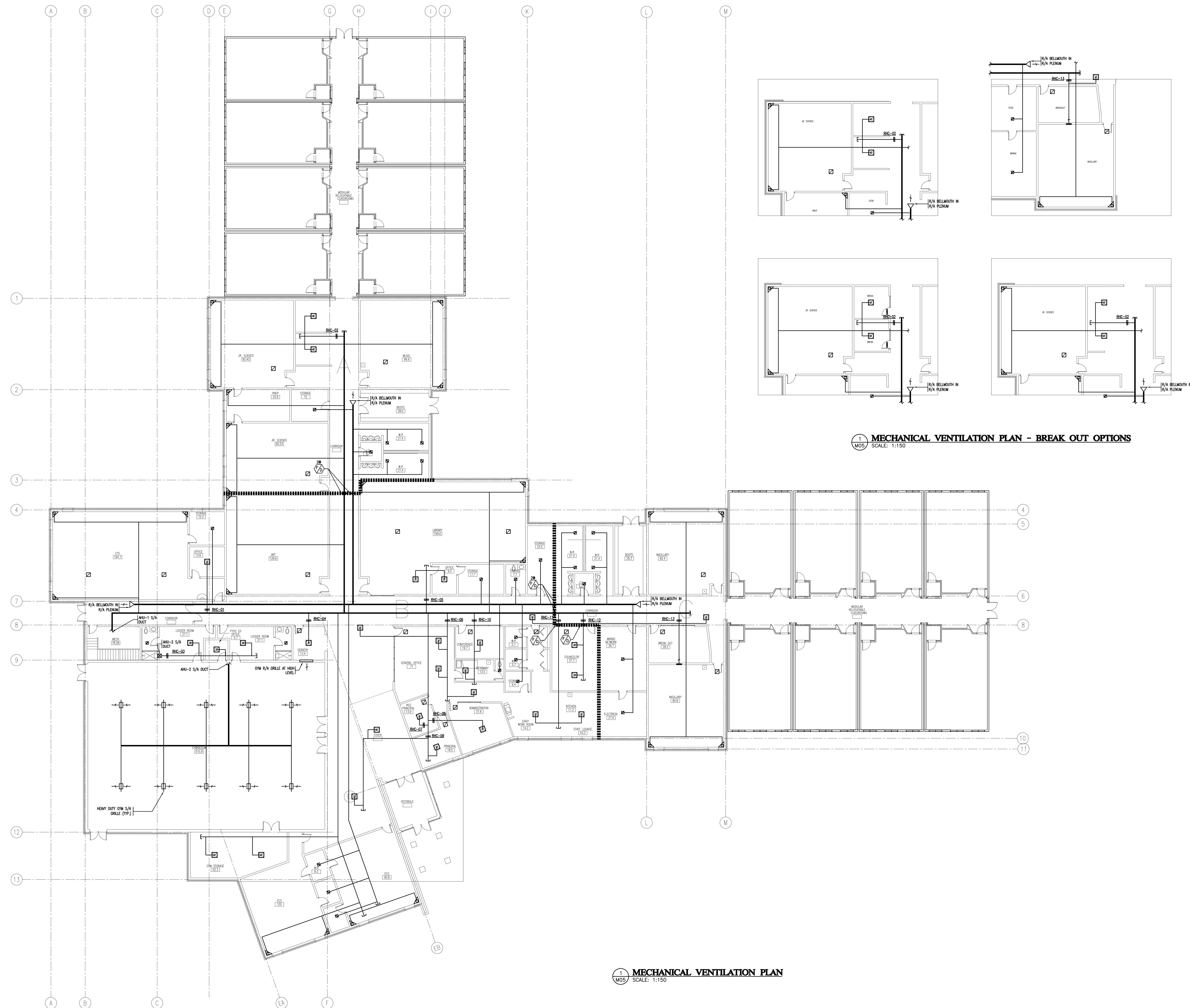
REVISIONS
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PROJECT
600 STUDENT
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ALBERTA
SHEET TITLE
HEATING PLAN

Drawn WMH/MJR	Checked DJC
Project No. E07174	Date September 18, 2007
Scale 1:150	Sheet No. M04

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MECHANICAL VENTILATION PLAN - BREAK OUT OPTIONS
SCALE: 1:150

MECHANICAL VENTILATION PLAN
SCALE: 1:150

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PROJECT
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K-9 CORE SCHOOL**

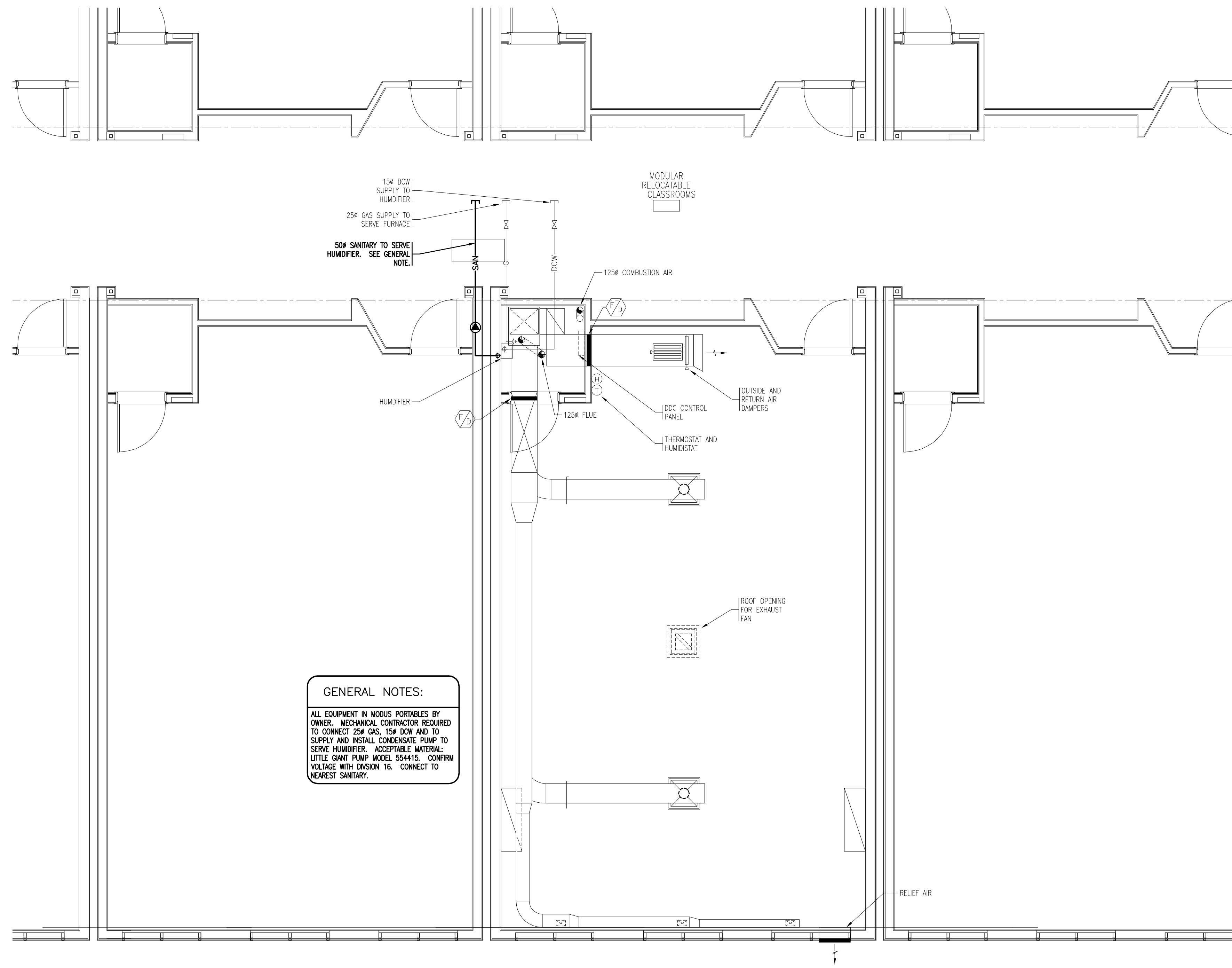
ALBERTA

SHEET TITLE
**VENTILATION
PLAN**

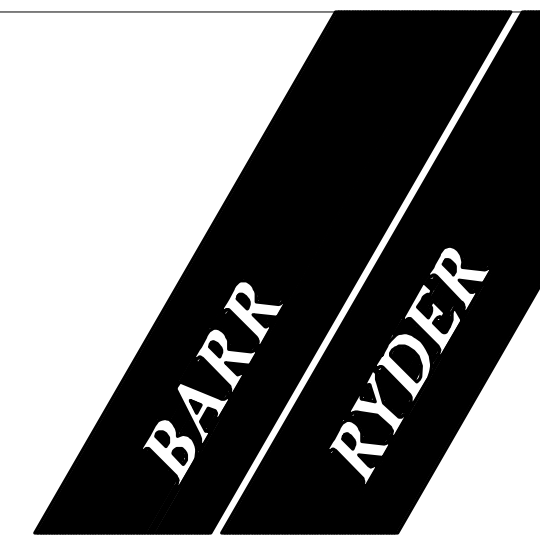
Drawn **WMH/MJR** Checked **DJC**

Project No. **E07174** Date **September 18, 2007**

Scale **1:150** Sheet No. **M05**



1 M06 TYPICAL PORTABLE CLASSROOM PLAN (BY OTHERS)
 SCALE: 1:50



ARCHITECTS & INTERIOR DESIGNERS
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NO	DATE	DESCRIPTION

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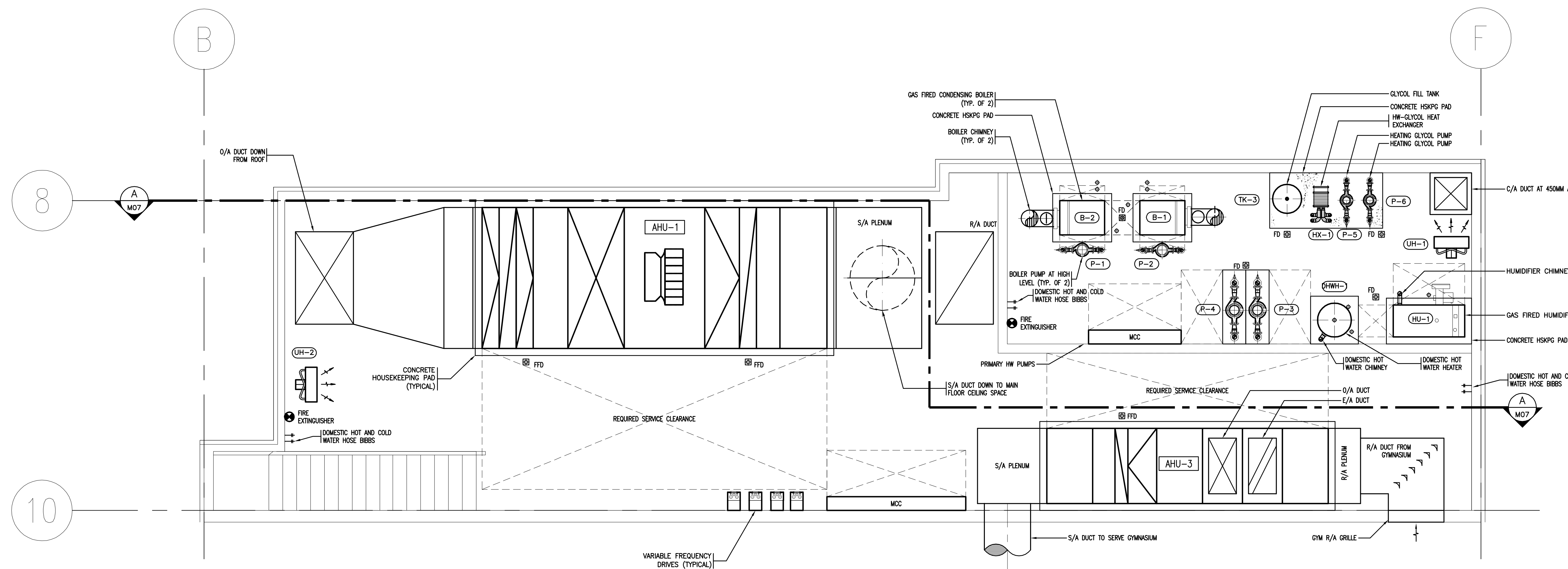
REVISIONS
 SEAL / PERMIT

PROJECT
 600 STUDENT K-9 CORE SCHOOL

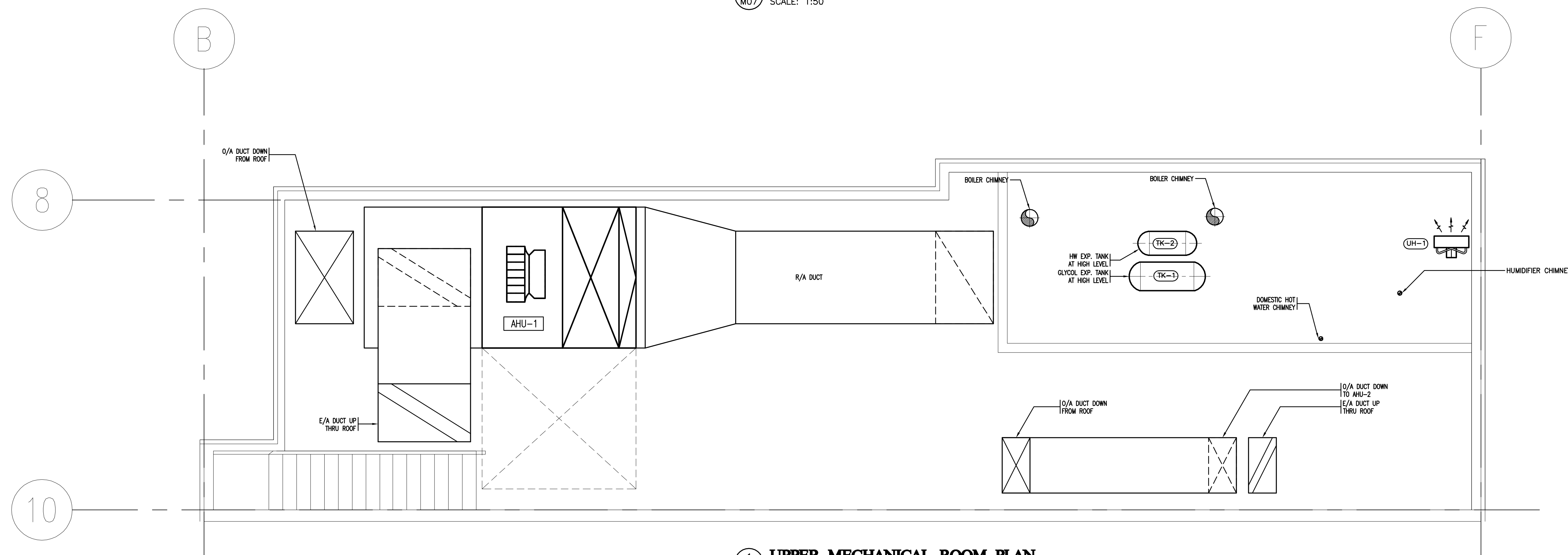
SHEET TITLE
 TYPICAL PORTABLE CLASSROOM PLAN

Drawn WMH/MJR	Checked DJC
Project No. E07175	Date September 18, 2007

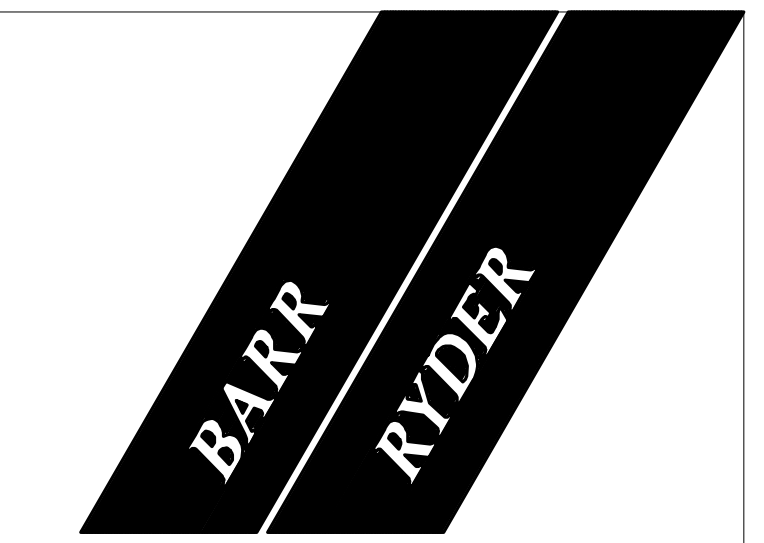
Scale 1:50	Sheet No. M06
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1 M07 LOWER MECHANICAL ROOM PLAN
SCALE: 1:50



1 M07 UPPER MECHANICAL ROOM PLAN
SCALE: 1:50



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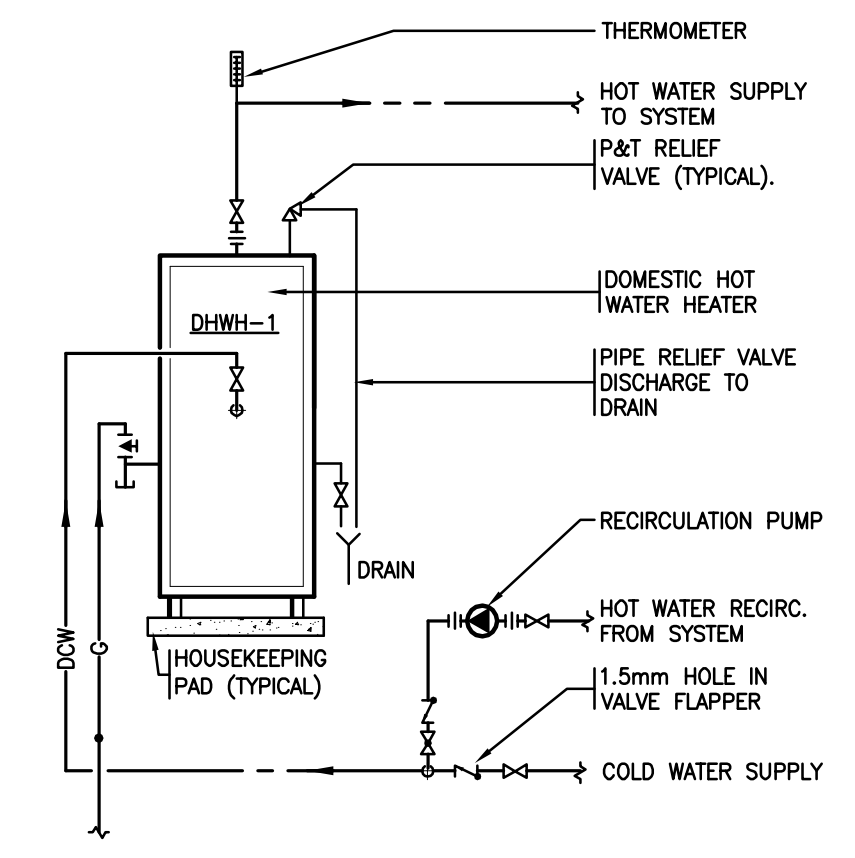
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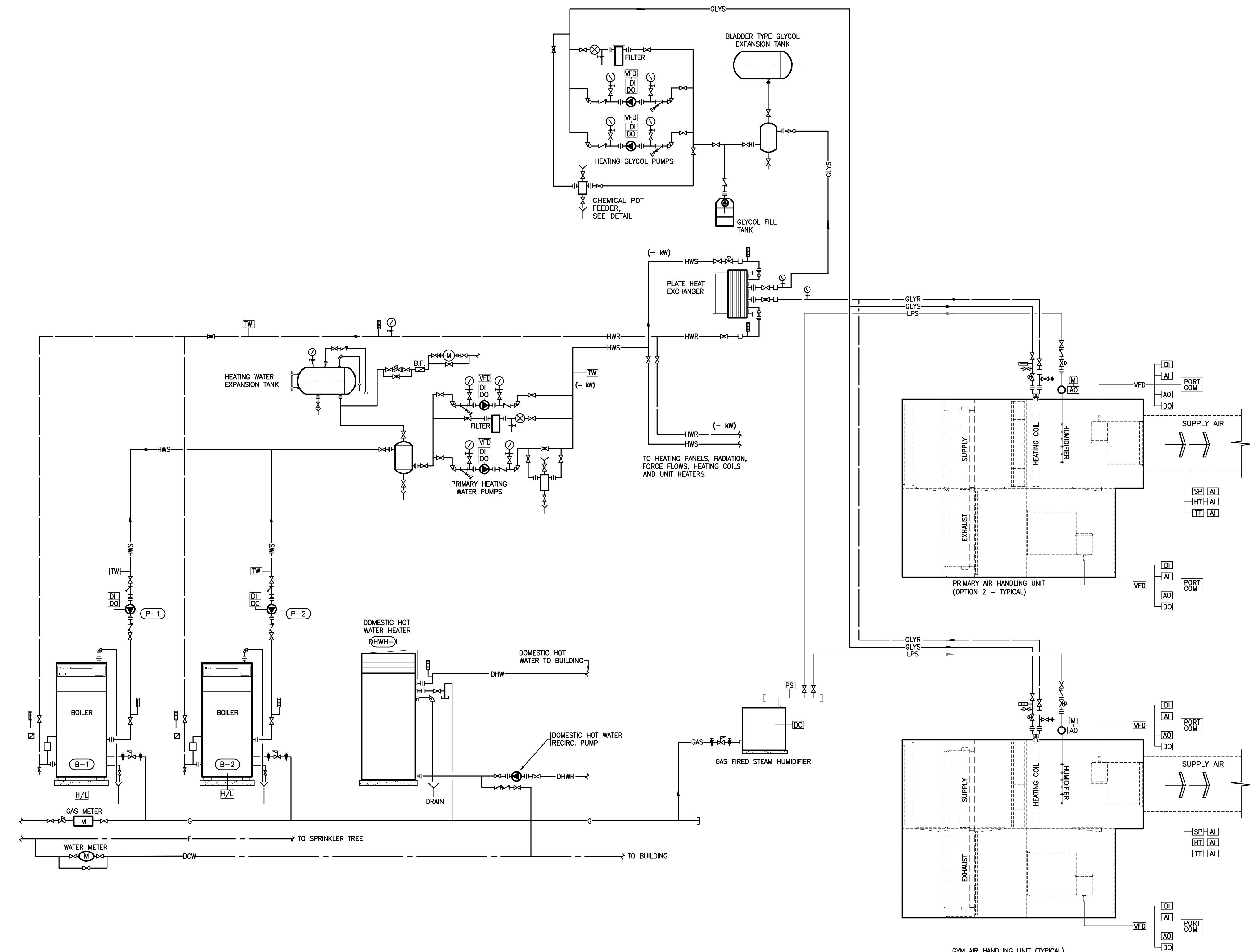
PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

SHEET TITLE
**MECHANICAL
ROOM PLANS AND
SCHEMATICS**

Drawn MJR	Checked DJC
Project No. E07174	Date September 18, 2007
Scale AS NOTED	Sheet No. M07



1 DOMESTIC WATER HEATER PIPING SCHEMATIC
SCALE: N.T.S.



2 MECHANICAL SYSTEM SCHEMATIC
SCALE: N.T.S.

NO	DATE	DESCRIPTION
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PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

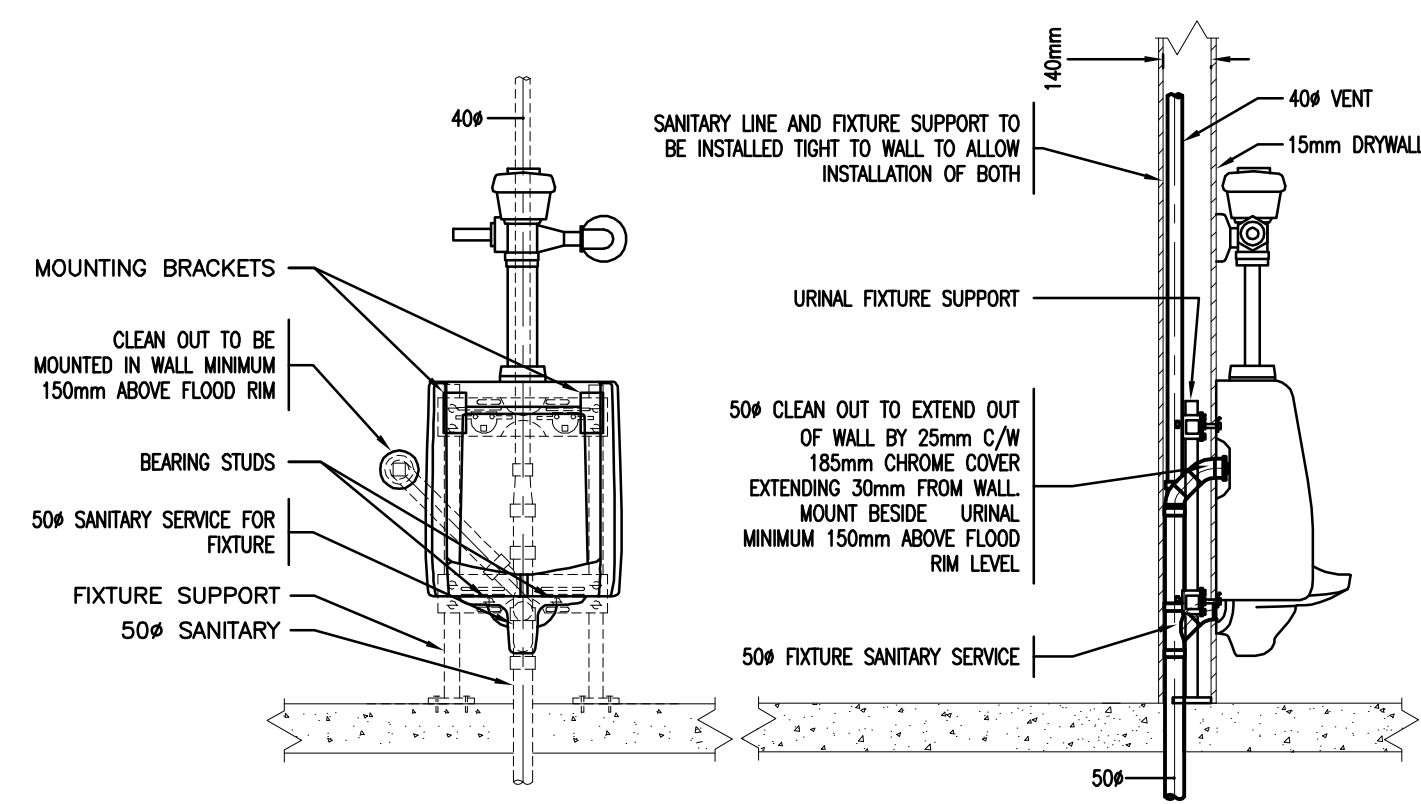
ALBERTA

SHEET TITLE
SCHEMATICS

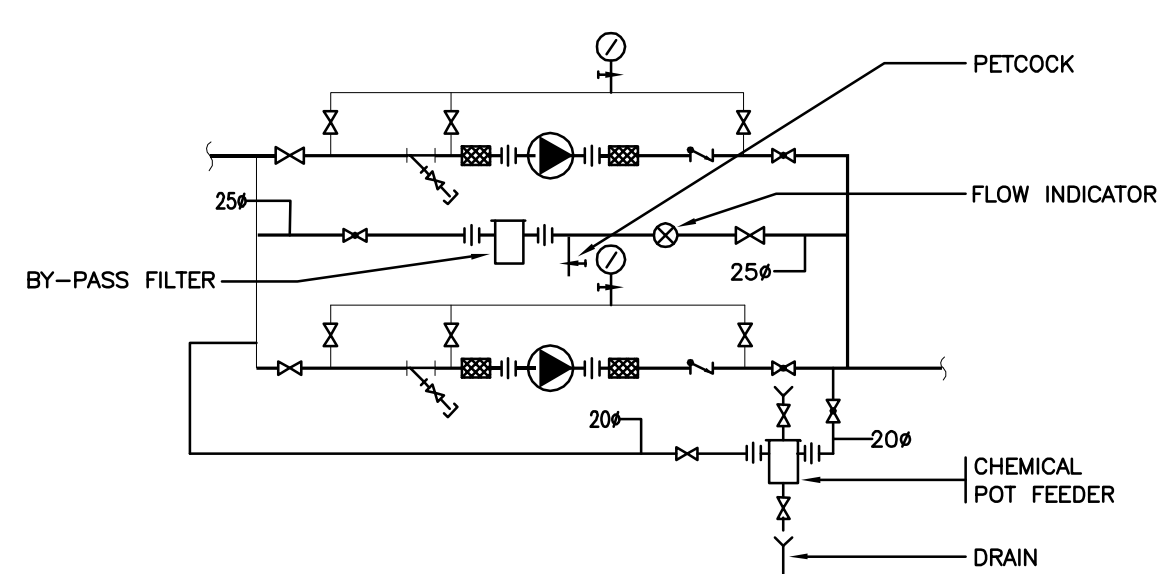
Drawn **WMH/MJR** Checked **DJC**

Project No. **E07174** Date **September 18, 2007**

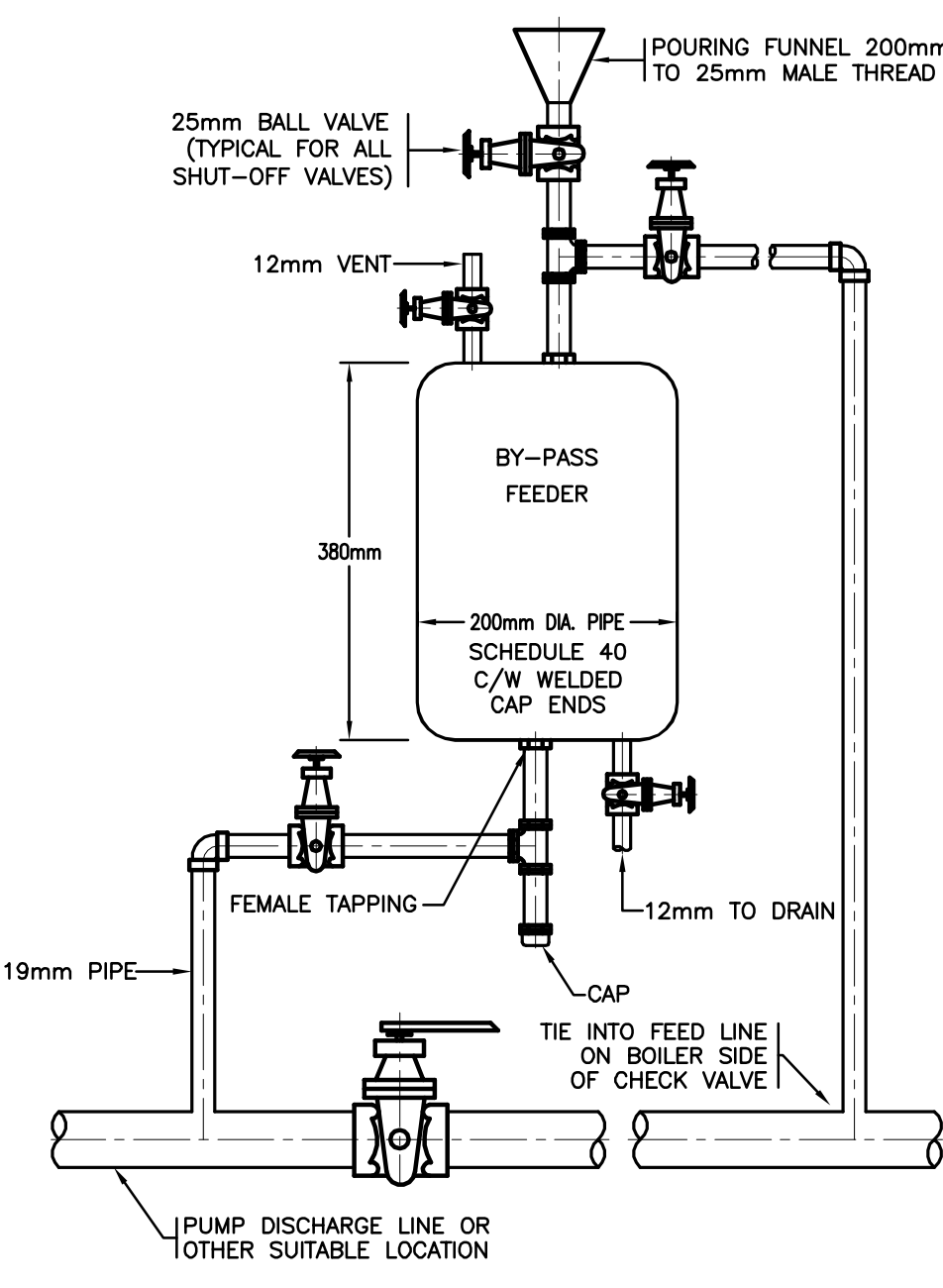
Scale **AS NOTED** Sheet No. **M08**



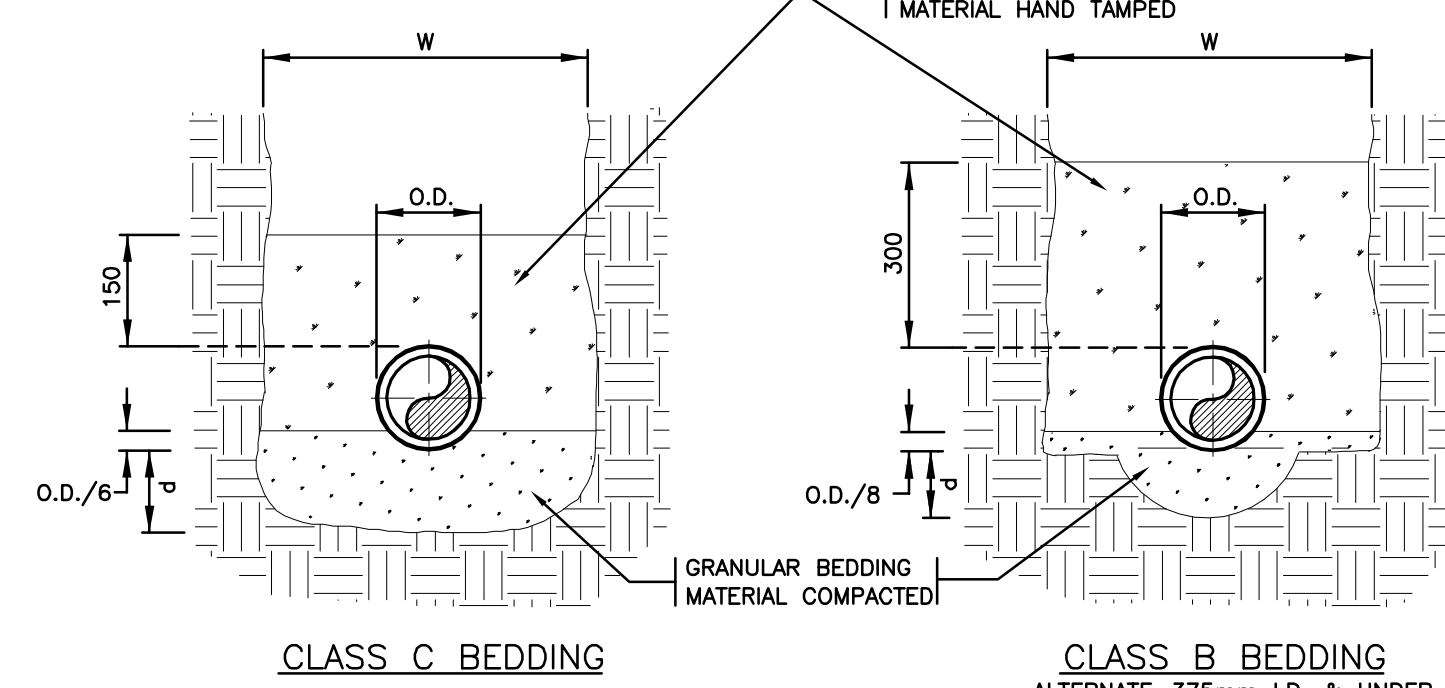
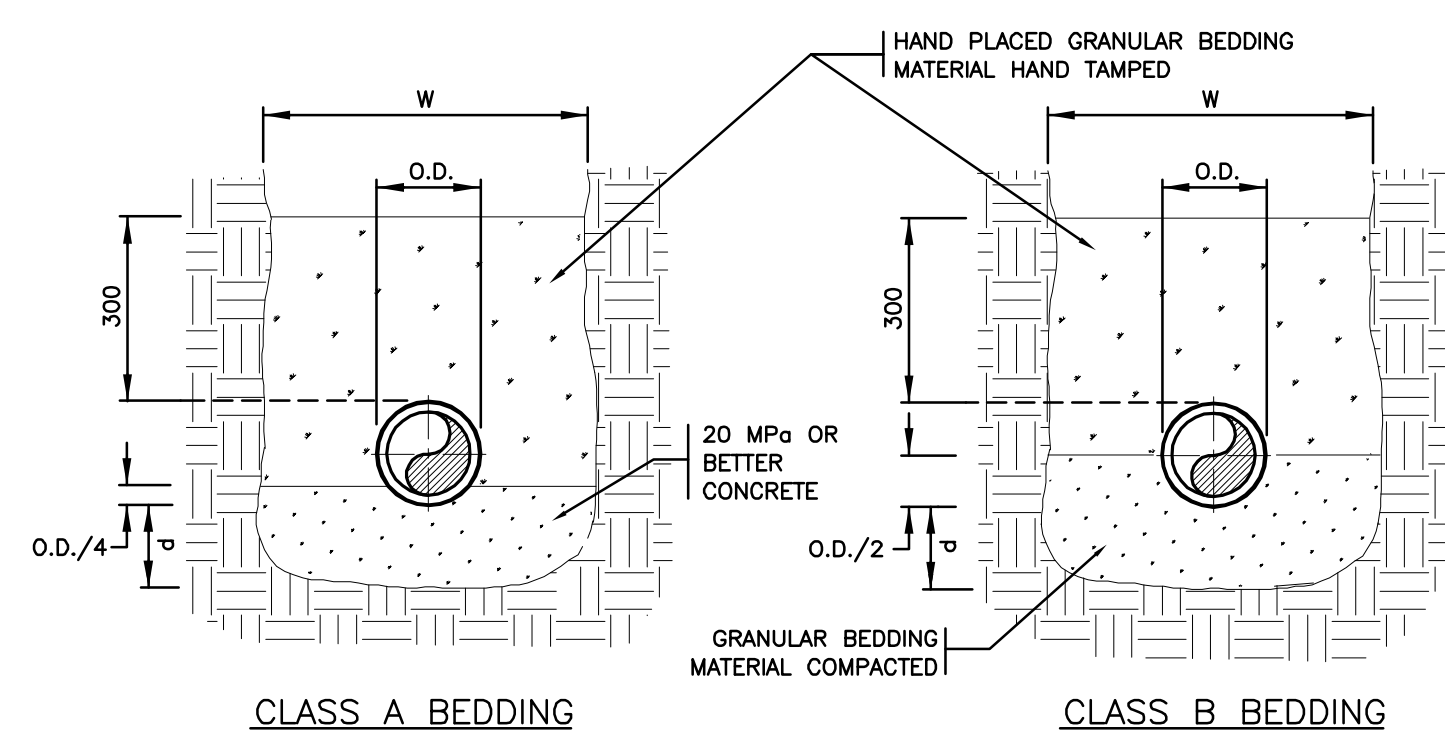
1 WALL MOUNTED URINAL DETAIL
M09 NTS



2 CHEMICAL POT FEEDER & BYPASS FILTER ASSEMBLY
M09 NTS



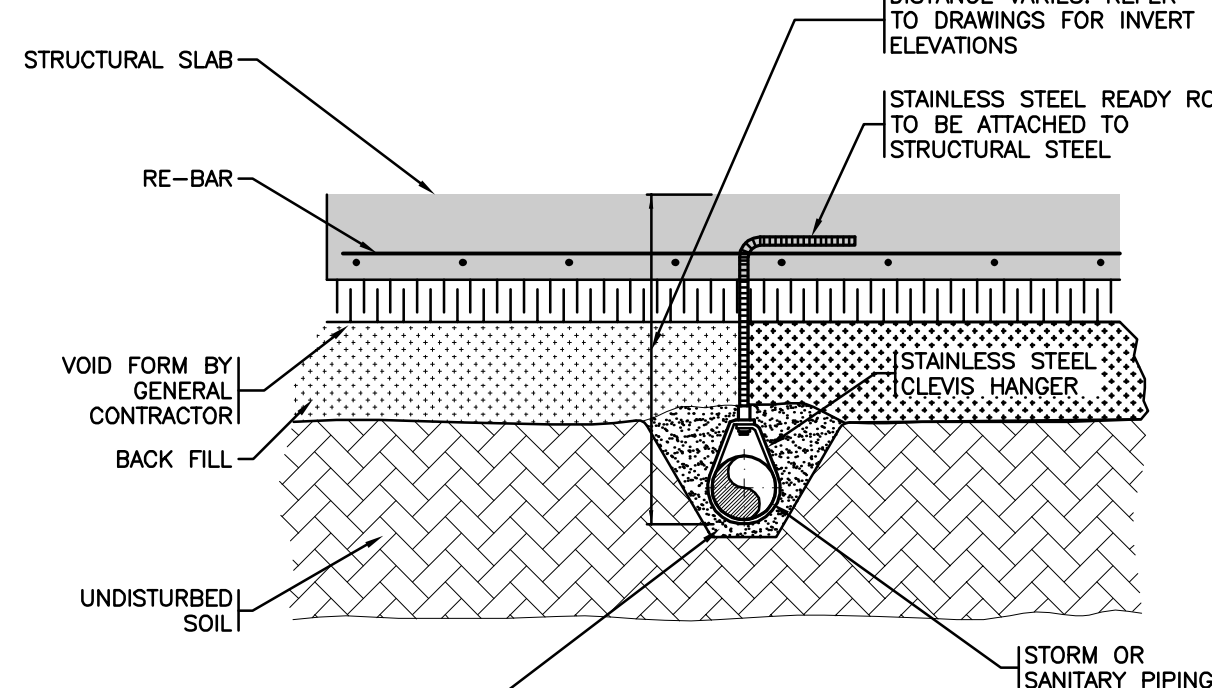
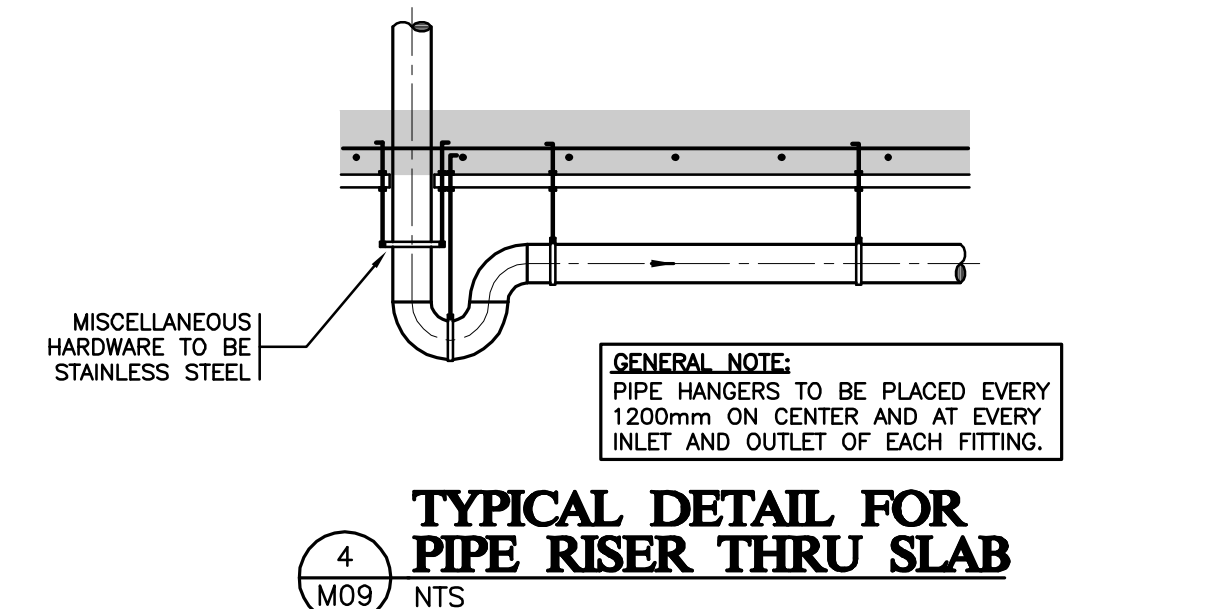
7 CHEMICAL POT FEEDER
M09 NTS



3 PIPE BEDDING DETAIL
M09 NTS

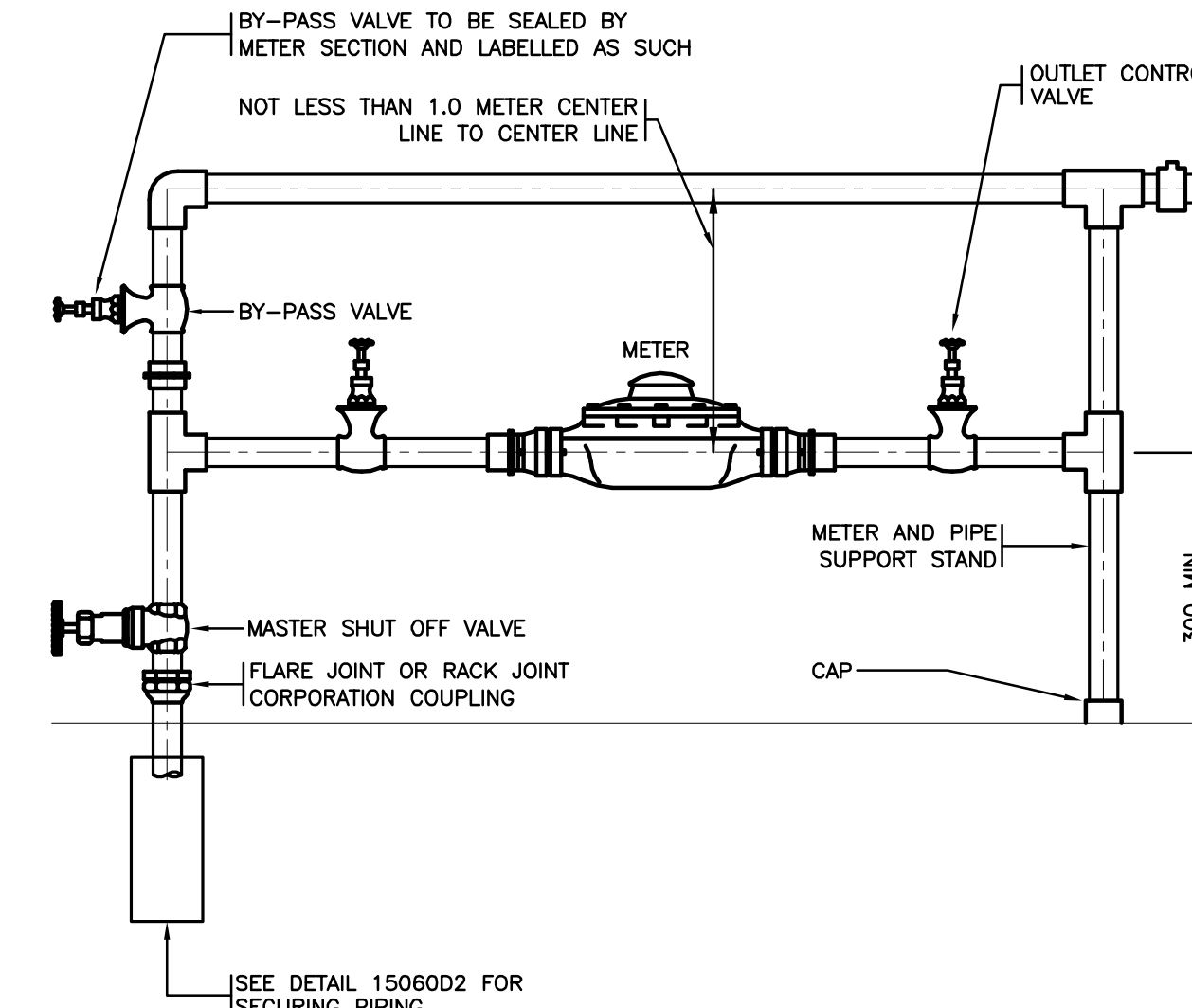
NOTES:
1. CONCRETE OR BEDDING MATERIAL TO EXTEND TO UNDISTURBED TRENCH WALLS.
2. COMPACTION—SEE STANDARD PROCTOR MAXIMUM DRY DENSITY (MIN.)
3. FOR TRENCH WIDTH "W" REFER TO SPECIFICATIONS.

MINIMUM DEPTH OF BEDDING BELOW PIPE=d	
L.D.=675mm & SMALLER	d=75mm
L.D.=750mm TO 1600mm	d=100mm
L.D.=1650mm & LARGER	d=150mm

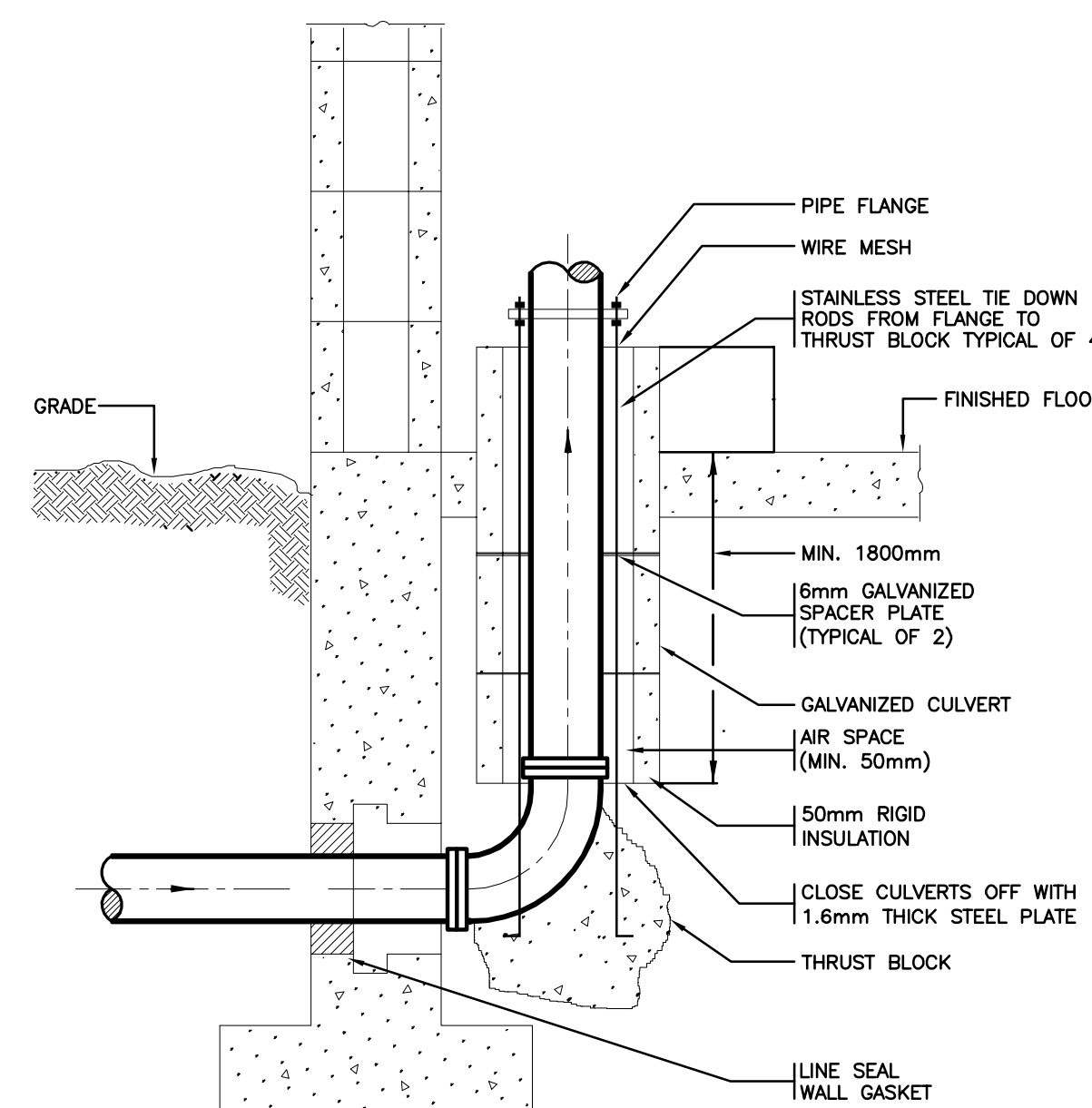


5 UNDERSLAB PIPE HANGER DETAIL
M09 NTS

PIPE SIZE	MAXIMUM FLOOR AREA REQUIRED						
	INCHES	mm	LENGTH	WIDTH	AREA	LENGTH	WIDTH
2	50	5	4.5	22.5	1.5	1.4	2.1
3	75	7	4.5	31.5	2.1	1.4	2.9
4	100	7	4.5	31.5	2.1	1.4	2.9
6	150	8	4.5	31.5	2.4	1.4	3.4



6 WATER METER DETAIL
M09 NTS



8 UNDERGROUND WATER SERVICE ENTRY DETAIL
M09 NTS

BARR RYDER

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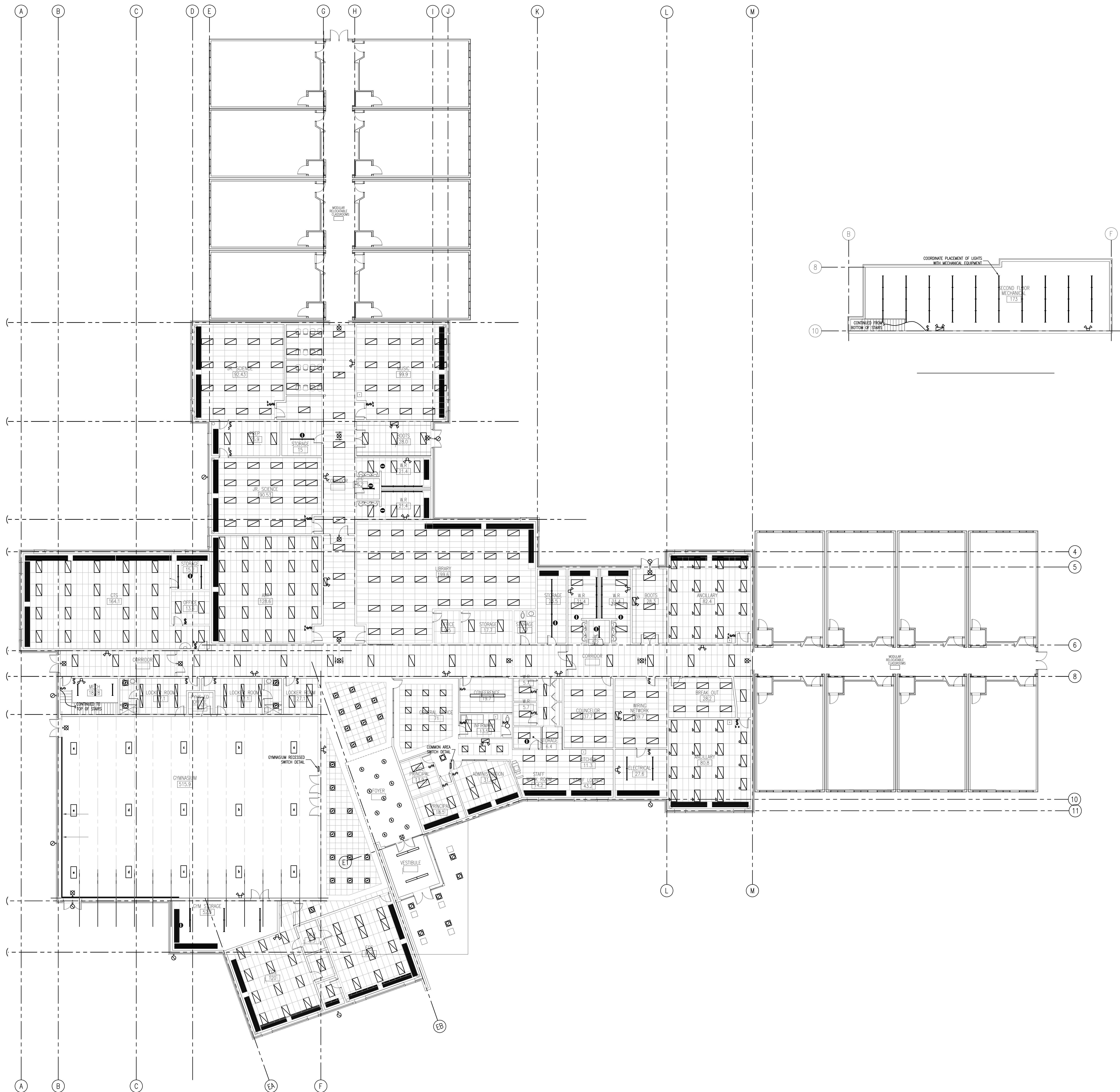
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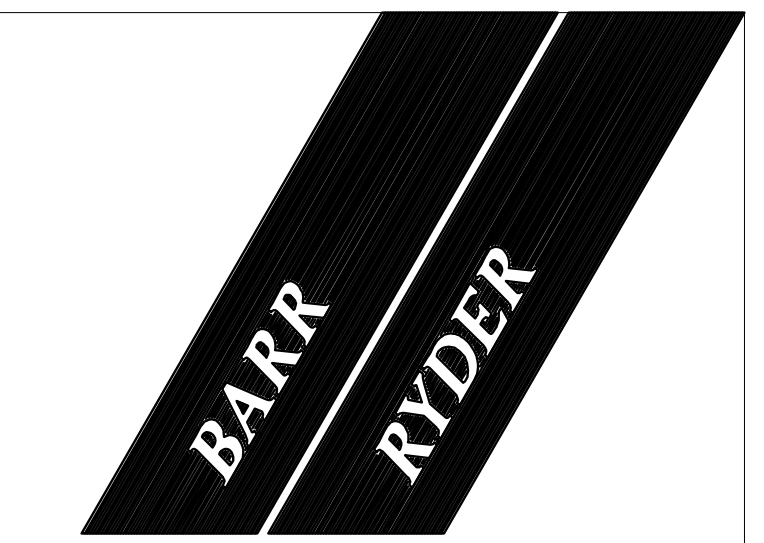
PROJECT
600 STUDENT K-9 CORE SCHOOL

SHEET TITLE
DETAILS

Drawn: **WMH/MJR** Checked: **DJC**
Project No: **E07174** Date: **September 18, 2007**
Scale: **AS NOTED** Sheet No: **M09**



SYMBOL SCHEDULE	
LIGHTING	
[Symbol]	RECESSED 1'x4' FLUORESCENT LUMINAIRE
[Symbol]	RECESSED 2'x4' FLUORESCENT LUMINAIRE
[Symbol]	RECESSED 2'x2' FLUORESCENT LUMINAIRE
[Symbol]	SURFACE MOUNTED 2'x4' FLUORESCENT LUMINAIRE
[Symbol]	SURFACE MOUNTED 1'x4' FLUORESCENT LUMINAIRE
[Symbol]	SURFACE MOUNTED STRIP LIGHT
[Symbol]	SURFACE MOUNTED INCANDESCENT LUMINAIRE
[Symbol]	RECESSED INCANDESCENT DOWNLIGHT
[Symbol]	WALL MOUNTED COMPACT FLUORESCENT
[Symbol]	LINE VOLTAGE WALL SWITCH (VC = VOLUME CONTROL)
[Symbol]	INDICATES LUMINAIRE TYPE 'XX'
[Symbol]	OCCUPANCY SENSOR SWITCH
POWER	
[Symbol]	CEILING MOUNTED JUNCTION BOX
[Symbol]	SURFACE MOUNTED PANELBOARD
[Symbol]	WALL MOUNTED DUPLEX RECEPTACLE (WP = WEATHERPROOF)
[Symbol]	WALL MOUNTED FOURPLEX RECEPTACLE
[Symbol]	WALL MOUNTED G.F.I. DUPLEX RECEPTACLE
[Symbol]	ELECTRIC MOTOR
[Symbol]	ELECTRICAL DISCONNECT SWITCH
[Symbol]	WALL MOUNTED PUSH BUTTON
FIRE ALARM	
[Symbol]	FIRE ALARM CONTROL PANEL
[Symbol]	WALL MOUNTED EXIT LIGHT
[Symbol]	EMERGENCY LIGHT BATTERY PACK WITH DUAL HEAD
[Symbol]	EMERGENCY LIGHT DOUBLE REMOTE HEAD
[Symbol]	FIRE ALARM PULL STATION
[Symbol]	FIRE ALARM HORN/STROBE
[Symbol]	FIRE ALARM SMOKE DETECTOR
[Symbol]	FIRE ALARM HEAT DETECTOR
SYSTEMS	
[Symbol]	CEILING MOUNTED SPEAKER
[Symbol]	RECESSED CEILING MOUNTED SPEAKER
[Symbol]	WALL MOUNTED MICROPHONE OUTLET
[Symbol]	WALL MOUNTED SPEAKER HORN
[Symbol]	COMPUTER OUTLET
[Symbol]	TELEPHONE OUTLET
[Symbol]	LOW TENSION OUTLET (TV = HANDSET)
[Symbol]	DATA/VOICE OUTLET (1 DATA, 1 VOICE)
SECURITY	
[Symbol]	SECURITY DOOR CONTACT
[Symbol]	SECURITY KEYPAD



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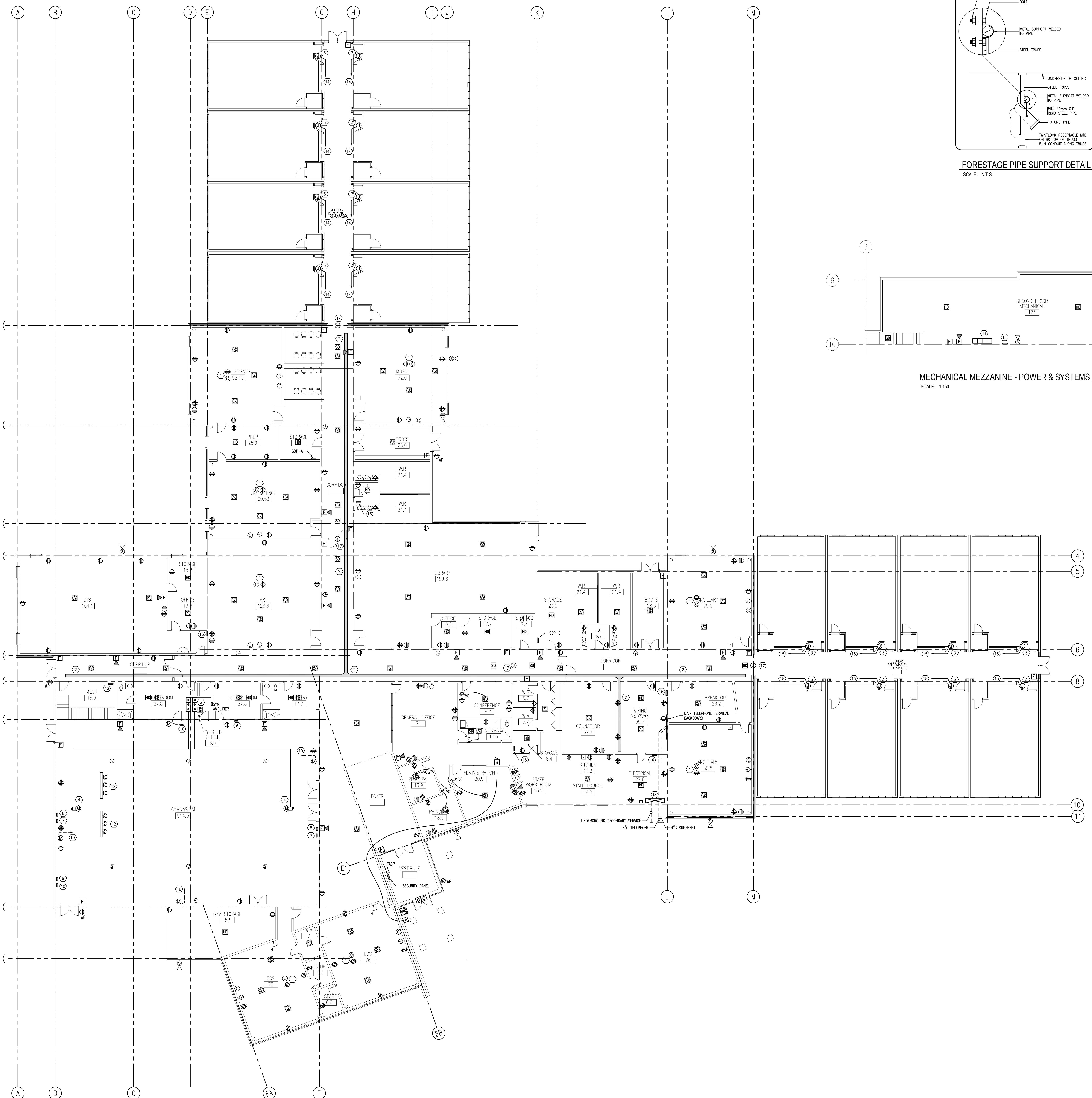
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PROJECT
**600 STUDENT
K-9 CORE SCHOOL**

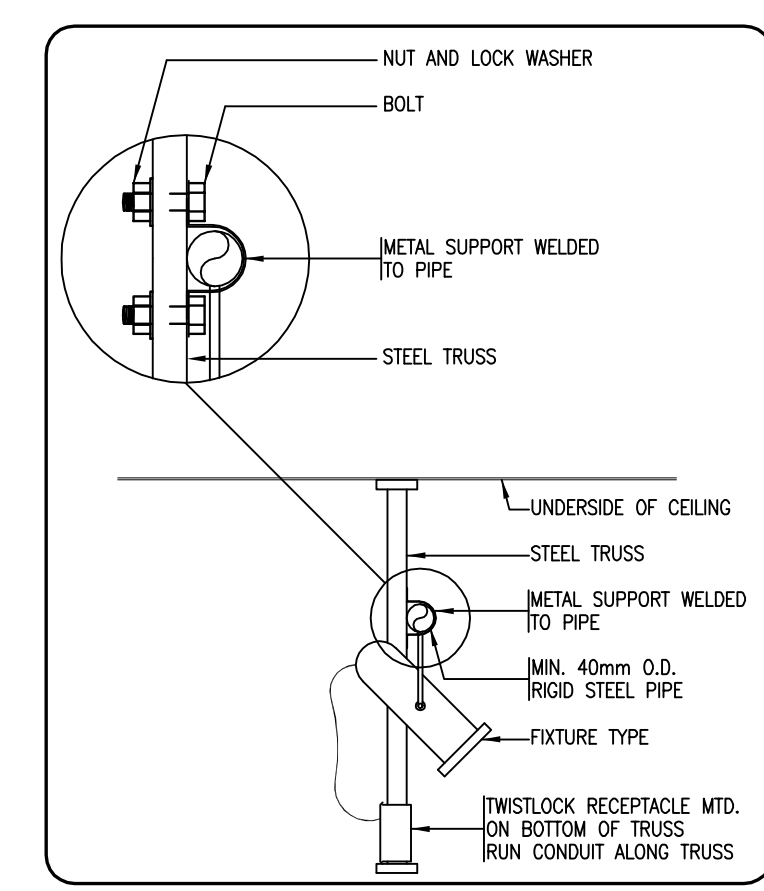
ALBERTA

SHEET TITLE
LIGHTING PLAN

Drawn DPB	Checked BPR
Project No. 27336	Date SEPTEMBER 21, 2007
Scale 1:150	Sheet No. E1

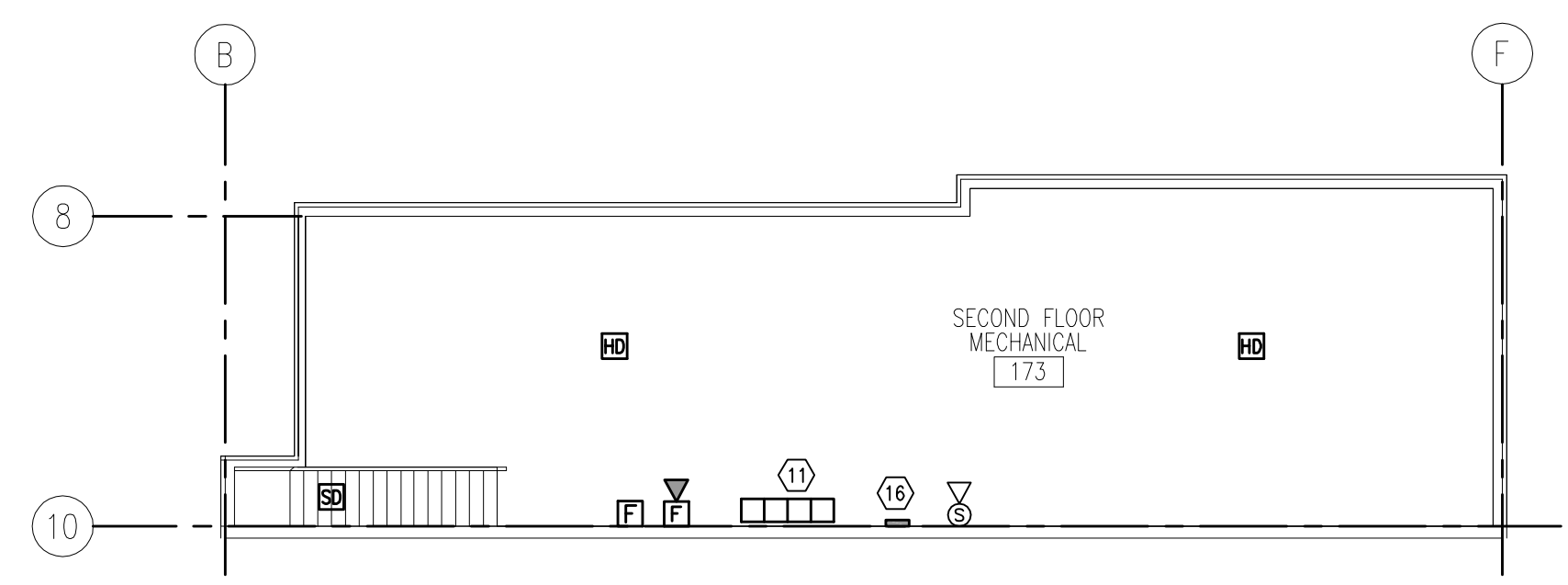


MAIN FLOOR PLAN - POWER & SYSTEMS
SCALE: 1:150

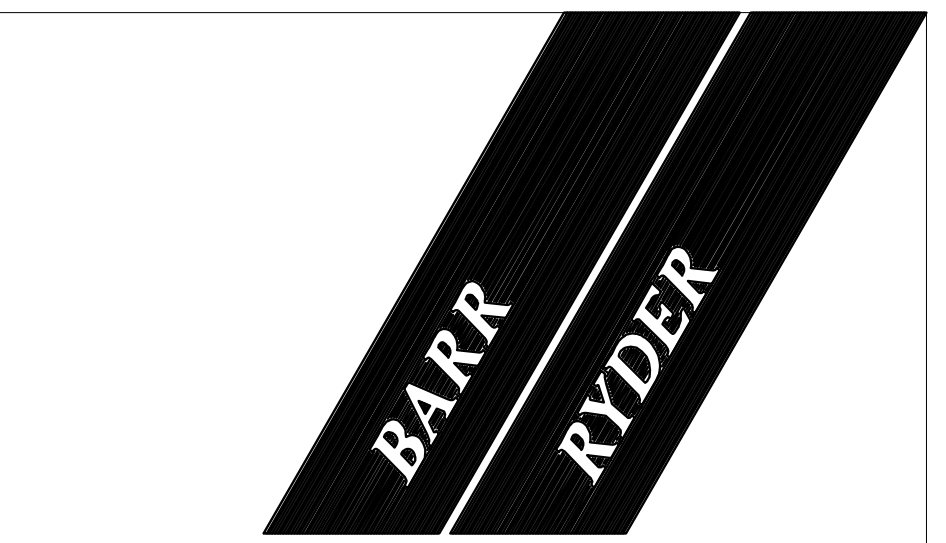


FORESTAGE PIPE SUPPORT DETAIL
SCALE: N.T.S.

- KEY NOTES:
- 1 OVERHEAD PROJECTOR DATA AND POWER CONNECTION. COORDINATE AND CONFIRM EXACT LOCATION OF PROJECTOR WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
 - 2 LADDER TYPE CABLE TRAY ACCESSIBLE FROM CEILING SPACE.
 - 3 JUNCTION BOX FOR POWER CONNECTION TO MODULAR CLASSROOMS.
 - 4 MOTORIZED BACKBOARDS.
 - 5 CONTROLLERS: UP, DOWN AND STOP FOR MOTORIZED BACKBOARDS.
 - 6 JUNCTION BOX FOR CONTROL OF SCOREBOARD.
 - 7 JUNCTION BOX FOR SHOT CLOCK MOUNTED AT 2400mm AFF.
 - 8 JUNCTION BOX FOR POWER TO SHOT CLOCK.
 - 9 JUNCTION BOX FOR CONTROL OF SCOREBOARD MOUNTED AT 3300mm AFF.
 - 10 JUNCTION BOX FOR POWER TO SCOREBOARD MOUNTED AT 3300mm AFF.
 - 11 RUN 21mmC TO AMPLIFIER IN PHYS-ED OFFICE.
 - 12 MOTOR CONTROL CENTER.
 - 13 TWISTLOCK RECEPTACLES FOR FORESTAGE LIGHTING - REFER TO DETAIL.
 - 14 RUN TO SUB DISTRIBUTION PANEL 'A'.
 - 15 RUN TO SUB DISTRIBUTION PANEL 'B'.
 - 16 BRANCH CIRCUIT PANEL.
 - 17 JUNCTION BOX FOR DOOR SENTRONICS. TIE INTO FIRE ALARM SYSTEM.
 - 18 MAIN DISTRIBUTION CENTRE.



MECHANICAL MEZZANINE - POWER & SYSTEMS
SCALE: 1:150



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PROJECT
600 STUDENT K-9 CORE SCHOOL

SHEET TITLE
POWER & SYSTEMS PLAN

Drawn: DPB Checked: BPR

Project No.: 27336 Date: SEPTEMBER 21, 2007

Scale: 1:150 Sheet No.: **E2**