TERRIEN
ARCHITECTS

Terrien Architects, Inc.
4 Milk Street
Portland, Maine 04101
207-774-6016 FAX 207-774-9128

Addition and Renovations to

DROWNE ROAD SCHOOL

Cumberland, Maine

29 August, 1997

Codes & Ordinances Applicable to Project:

BOCA Building Code 1993
Construction Type 3B

NFPA 101 Life Safety Code 1994
Ch. 10 New Educational Occupancies
Construction Type III-200

Maine State Plumbing Code 1977

7011TITLES.MC7

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DROWNE ROAD SCHOOL
Drowne Road Cumberland, Maine
ADDITIONS & RENOVATIONS

TITLE SHEET

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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DRAWING NO.
T-1

STANDARD LIST OF ABBREVIATIONS

&	AND	I.D.	INSIDE DIAMETER OR DIMENSION
@	AT	INL.	INLET
∠	ANGLE	INSUL.	INSULATION
℄	CENTERLINE	INT.	INTERIOR
ϕ	DIAMETER OR ROUND	INV.	INVERT
#	NUMBER OR POUND		
□	SQUARE	JAN.	JANITOR
		JT.	JOINT
AC.	ACRES		
A.C.C.M.P.	ASPHALT COATED CORRUGATED METAL PIPE	KIT.	KITCHEN
ACOUS.	ACOUSTICAL	LAM.	LAMINATE
ACT.	ACOUSTICAL CEILING TILE	LAV.	LAVATORY
A.D.	AREA DRAIN	L.F.	LINEAR FEET
ADJ.	ADJACENT	LIN.	LINEAR
AFF.	ABOVE FINISHED FLOOR	LKR.	LOCKER
AGGR.	AGGREGATE	L.P.	LOW POINT
ALUM.	ALUMINUM	LT.	LIGHT
APPROX.	APPROXIMATE		
ARCH.	ARCHITECTURAL	MATL.	MATERIAL
ASB.	ASBESTOS	MATV	MASTER T.V. ANTENNA
ASPH.	ASPHALT	MAX.	MAXIMUM
		MECH.	MECHANICAL
B&B	BALLED & BURLAPPED	MEMB.	MEMBRANE
B.C.	BOTTOM OF CURB	MET.	METAL
BETW	BETWEEN	MFR.	MANUFACTURER
BD.	BOARD	MH.	MANHOLE
BITUM.	BITUMINOUS	MHW	MEAN HIGH WATER
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK	MISC.	MISCELLANEOUS
BLKG.	BLOCKING	MLW	MEAN LOW WATER
BM.	BENCHMARK	M.O.	MASONRY OPENING
BOT.	BOTTOM	MON.	MONUMENT
B.O.W.	BOTTOM OF WALL	MTD.	MOUNTED
B.S.	BOTTOM OF SLOPE	MUL.	MULLION
B.W.	BOTH WAYS		
		N.I.C.	NOT IN CONTRACT
CAB.	CABINET	NO.	NUMBER
CAL.	CALIPER	NOM.	NOMINAL
CATV	CABLE TELEVISION	N.T.S.	NOT TO SCALE
C.B.	CATCH BASIN		
CEM.	CEMENT	O.A.	OVERALL
CER.	CERAMIC	O.C.	ON CENTER
C.F.	CUBIC FEET	O.D.	OUTSIDE DIAMETER
C.I.	CAST IRON	OFF.	OFFICE
CIR.	CIRCULAR	OH.	OVERHEAD
C.J.	CONTROL JOINT	OPNG.	OPENING
CL	CENTER LINE	OPP.	OPPOSITE
CLG.	CEILING		
CLKG.	CAULKING	P.C.C.	POINT OF COMPOUND CURVE
CLOS.	CLOSET	P.C.P.	PORCUS CONCRETE PIPE
CLR.	CLEAR	P.L.	PROPERTY LINE
C.M.P.	CORRUGATED METAL PIPE	P.LAM.	PLASTIC LAMINATE
CMU.	CONCRETE MASONRY UNIT	PLAS.	PLASTER
CNTR.	COUNTER	PLYWD.	PLYWOOD
C.O.	CLEANOUT	P.O.C.	POINT OF CURVATURE
COL.	COLUMN	P.O.T.	POINT OF TANGENCY
CONC.	CONCRETE	PR.	PAIR
CONN.	CONNECTION	PRCST.	PRE-CAST
CONSTR.	CONSTRUCTION	PT.	POINT
CONT.	CONTINUOUS	P.T.	PRESSURE TREATED
CORR.	CORRIDOR	PTD.	PAINTED
CPT.	CARPET	PTN.	PARTITION
C/S	CROSS SLOPE	P.V.C.	POLYVINYL CHLORIDE PIPE
C.T.	CERAMIC TILE	P.P.V.C.	PERFORATED P.V.C.
CTR.	CENTER		
CUH.	CABINET UNIT HEATER	Q.T.	QUARRY TILE
C.Y.	CUBIC YARD		
		R.	RISER, RADIUS
DBL.	DOUBLE	R.C.P.	REINFORCED CONCRETE PIPE
DEPT.	DEPARTMENT	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN	REF.	REFERENCE
D.I.	DRAIN INLET	REFR.	REFRIGERATOR
DIA.	DIAMETER	REINF.	REINFORCED
DIM.	DIMENSION	REQ'D	REQUIRED
DN.	DOWN	RESIL.	RESILIENT
D.O.	DOOR OPENING	REV.	REVISION
DR.	DOOR	RGTR.	REGISTER
DS.	DOWNSPOUT	RM.	ROOM
DTL.	DETAIL	R.O.	ROUGH OPENING
DWG.	DRAWING	R.O.W.	RIGHT OF WAY
DWR.	DRAWER	R.W.L.	RAIN WATER LEADER
EA.	EACH	SAN.	SANITARY
E.A.P.	EXPOSED AGGREGATE PAVING	S.C.	SOLID CORE
E.F.	EXHAUST FAN	SCHED.	SCHEDULE
E.I.&F.S.	EXT. INSUL. & FINISHING SYSTEM	SECT.	SECTION
E.J.	EXPANSION JOINT	S.F.	SQUARE FEET
EL.	ELEVATION	SH.	SHELF
ELEC.	ELECTRICAL	SHR.	SHOWER
ELEV.	ELEVATOR	SHT.	SHEET
EMER.	EMERGENCY	SIM.	SIMILAR
ENCL.	ENCLOSURE	SPEC.	SPECIFICATION
E.P.	ELECTRICAL PANELBOARD	SQ.	SQUARE
EQ.	EQUAL	S/S	STAINLESS STEEL
EQPT.	EQUIPMENT	ST	STORM SEWER
E.V.	EXHAUST VENT	STA.	STATION
E.W.	END WALL	STD.	STANDARD
E.W.C.	ELECTRIC WATER COOLER	STL.	STEEL
E.W.H.	ELECTRIC WATER HEATER	STOR.	STORAGE
EXPO.	EXPOSED	STRL/STRUCT	STRUCTURAL
EXP.	EXPANSION	SUSP.	SUSPENDED
EXIST.	EXISTING	S.Y.	SQUARE YARDS
EXT.	EXTERIOR	SYM.	SYMMETRICAL
F.A.	FIRE ALARM	T.	TREAD
F.D.	FLOOR DRAIN	TAN.	TANGENT
FDN.	FOUNDATION	T.C.	TOP OF CURB
F.E.	FIRE EXTINGUISHER	T.E.	TAPERED END
F.E.C.	FIRE EXTINGUISHER CABINET	TEL.	TELEPHONE
F.F.	FINISH FLOOR	TER.	TERRAZZO
F.G.	FINISH GRADE	T.&G.	TONGUE AND GROOVE
F.H.C.	FIRE HOSE CABINET	T.O.B.	TOP OF BRICK
FIN.	FINISH	T.O.P.	TOP OF PAVEMENT
FL.	FLOOR	T.O.S.	TOP OF STEEL
FLASH.	FLASHING	T.O.W.	TOP OF WALL
FLUOR.	FLUORESCENT	T.S.	TOP OF SLOPE
F.O.C.	FACE OF CONCRETE	T.V.	TELEVISION
F.O.F.	FACE OF FINISH	TYP.	TYPICAL
F.O.FR.	FACE OF FRAME		
F.O.S.	FACE OF STUD	U.D.	UNDERDRAIN
F.O.W.	FACE OF WALL	UG.	UNDERGROUND
FPRF.	FIREPROOF	UNF.	UNFINISHED
FT.	FOOT OR FEET	U.O.N.	UNLESS OTHERWISE NOTED
FTG.	FOOTING	UR.	URINAL
FURR.	FURRING	U.S.G.S.	U.S. GEOLOGICAL SURVEY
GA.	GAUGE	VAR.	VARIES, VARIABLE
GAL.	GALLON	VAT.	VINYL ASBESTOS TILE
GALV.	GALVANIZED	V.C.P.	VITRIFIED CLAY PIPE
GD.	GRADE	VCT.	VINYL COMPOSITION TILE
GL.	GLASS	VERT.	VERTICAL
GND.	GROUND	VEST.	VESTIBULE
G.R.	GUARD RAIL		
G.V.	GAS VALVE	W/	WITH
GWB.	GYPSUM WALL BOARD	W/O	WITHOUT
GYP.	GYPSUM	W.C.	WATER CLOSET
		WD.	WOOD
HB	HOSE BIB	W.H.	WATER HEATER
H.C.	HOLLOW CORE	WP.	WATERPROOF
HDWD.	HARDWOOD	WT.	WEIGHT
HDWE.	HARDWARE	W.V.	WATER VALVE
HGT.	HEIGHT	WWF	WELDED WIRE FABRIC
H.M.	HOLLOW METAL		
HORIZ.	HORIZONTAL		
H.P.	HIGH POINT		
H.W.	HEAD WALL		
HWY.	HIGHWAY		
HYD.	FIRE HYDRANT		

STANDARD ARCHITECTURAL GRAPHIC SYMBOLS

H / L1.2 — DRAWING TITLE, SCALE: 1/4" = 1'-0" — REFERENCE TITLES - PLANS, SECTIONS, ELEVATIONS & DETAILS

H / L1.2 — BUILDING SECTION

H / L1.2 — WALL SECTIONS

H / L1.2 — PARTIAL WALL SECTIONS

H / L1.2 — DETAIL SECTION

G / A2.3 — DETAIL INDICATOR PLAN, SECTION, ELEVATION

A — COLUMN OR BUILDING MODULE INDICATOR

THIRD FL. / EL. 43'-6" — FIN. FLOOR ELEVATION FOR SECTIONS, BUILDING ELEVATIONS & DETAILS

H / L1.2 — BUILDING ELEVATION

2222 / BATHROOM — ROOM NAMES/NUMBERS

101.1 — DOOR NUMBERS

A — WINDOW TYPES

A — WALL TYPES

1 / 4 A6.3 2 / 3 — ELEVATION NUMBER, SHEET NUMBER — INTERIOR ELEVATION KEY ON PLANS

MAGNETIC NORTH / PLAN NORTH — NORTH ARROW

8'-0" / ACOUS — CEILING FINISH/HEIGHT INDICATOR

A — ALIGN FACE OF FINISH OR FRAMING

9'-11 1/2" — TYPICAL DIMENSIONING

LANDSCAPE ARCHITECTURE - GRAPHICS

PROPERTY LINES

EASEMENT LINES & R.O.W. LINES

SETBACK LINES

ZONING BOUNDARY

CENTERLINE OF ROAD

DRAINAGE SWALE

INTERMITENT STREAM

STREAM

CONTOUR, EXISTING

CONTOUR, PROPOSED

TREE OR HEDGE LINE

SD — STORM DRAIN

SS — SANITARY SEWER

UD — UNDERDRAIN

W — WATER LINE

G — GAS LINE

E — ELECTRICAL LINE

OE — OVERHEAD ELECTRICAL

T — TELEPHONE LINE

UT — UNDERGROUND TELEPHONE

FA — FIRE ALARM

CATV — CABLE TELEVISION

UCATV — UNDERGROUND CATV

FENCE

EROSION CONTROL

48.30 — SPOT ELEVATION, EXISTING

59.35 — SPOT ELEVATION, PROPOSED

65.33 — FINISHED ELEVATION (FLOOR, SLAB, ETC)

TEST BORING LOCATION

HANDICAPPED ACCESSIBLE

HOSE BIB

UTILITY POLES (EXISTING, PROPOSED)

INLET

CB — CATCH BASIN

MH — MANHOLE

VALVE

CULVERT

FLAT ROOF OR FOUNDATION

BUILDING LINES

SLOPED ROOF

FIRE HYDRANTS (EXISTING, PROPOSED)

WM / EM / GM — METER PIT OR METER PANEL

T — TRANSFORMER

C.O. — CLEANOUT

BENCHMARK

LIGHT POLE (EXISTING, PROPOSED)

BOL — BOLLARD LIGHT (EXISTING, PROPOSED)

FP — FLAG POLE (EXISTING, PROPOSED)

B — BENCH (EXISTING, PROPOSED)

D — DUMPSTER

EXISTING TREE TO REMAIN

PROPOSED TREE

HEAD WALL WITH RIPRAP

THRUST BLOCK — TB

MATERIAL INDICATIONS - SECTIONS

EARTH, UNDISTURBED

EARTH, BACKFILL

COMPACTED GRANULAR FILL

RUBBLE, GRAVEL OR POROUS BACKFILL

SAND

ROCK

STONE

CLAY

POLISHED FACE

GRANITE

LIMESTONE

MARBLE

CONCRETE

REINFORCING

PRECAST CONCRETE

EXPOSED FACE

ARCHITECTURAL CONCRETE

LIGHTWEIGHT CONCRETE

GLASS FIBER REINFORCED CONCRETE

BITUMINOUS CONCRETE

CEMENT

CONCRETE MASONRY UNIT

BRICK

2 / 6 — ROUGH WOOD (CONTINUOUS)

WOOD BLOCKING OR SHIM (INTERRUPTED MEMBER)

FINISHED WOOD

PLYWOOD

GYPSUM WALL BOARD

EXTERIOR INSULATION & FINISHING SYSTEM

PLASTER ON METAL LATH

CERAMIC TILE

SLATE

TERRAZZO

ACOUSTICAL TILE

CARPET

GLASS

BATT INSULATION

RIGID INSULATION

SEALANT AND BACKER ROD

COMPRESSIBLE FILLER GROUT SEALANT

APPLIED FIREPROOFING

STEEL OR IRON

ALUMINUM

BRASS OR BRONZE

DRAWING LIST

T-1	TITLE SHEET
T-2	STANDARDS, ABBREVIATIONS, DRAWING LIST
	CIVIL, SITE AND LANDSCAPE
C-100	SITE PLAN
C-301	MISCELLANEOUS CIVIL DETAILS
L0.1	EXISTING SITE CONDITIONS, SITE DEMOLITION
L1.0	SITE LAYOUT PLAN
L1.1	PLANTING PLAN
L1.2	SIGNAGE PLAN
	ARCHITECTURAL
D1.1	DEMOLITION PLAN
D1.2	DEMOLITION ROOF PLAN
D2.1	DEMOLITION ELEVATIONS
A1.0	BASEMENT PLAN
A1.1	FLOOR PLAN
A1.2	ROOF PLAN
A2.1	BUILDING ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A4.1	PART PLANS, DETAILS,STAIR SECTIONS
A5.1	INTERIOR ELEVATIONS
A5.2	INTERIOR ELEVATIONS
A5.3	INTERIOR ELEVATIONS
A5.4	INTERIOR ELEVATIONS
A5.5	INTERIOR ELEVATIONS
A6.1	REFLECTED CEILING PLAN
A7.1	DOOR SCHEDULE, ROOM FINISH SCHEDULE, WINDOW SCHEDULE
A8.1	WALL SECTIONS
A8.2	WALL SECTIONS
A8.3	WALL SECTIONS
A8.4	WALL SECTIONS
A9.1	MISCELLANEOUS DETAILS

DRAWING LIST CONT'D

	STRUCTURAL DRAWINGS
S1	GENERAL NOTES & TYPICAL DETAILS
S2	FOUNDATION PLAN
S3	ROOF FRAMING PLAN
S4	CONCRETE SECTIONS & DETAILS
S5	FRAMING SECTIONS & DETAILS
S6	FRAMING SECTIONS & DETAILS
	HVAC/MECHANICAL DRAWINGS
MP1.0	HVAC DEMOLITION PLAN
M1.0	HVAC NOTES, SYMBOLS, SCHEDULES AND ABBREVIATIONS
M2.0	HVAC PIPING FIRST FLOOR PLAN
M3.0	HVAC DUCTWORK FIRST FLOOR PLAN
M4.0	HVAC MECHANICAL ROOMS PLAN AND SECTIONS
M5.0	HVAC BOILER ROOM FLOOR PLAN AND DETAILS
M6.0	HVAC DETAILS
	PLUMBING DRAWINGS
PD1.0	PLUMBING DEMOLITION PLAN
P1.0	PLUMBING NOTES & SCHEDULES
P2.0	PLUMBING PIPING FLOOR PLAN
P2.1	PLUMBING BASEMENT PLAN AND PART PLANS
P3.0	PLUMBING DETAILS
	ELECTRICAL DRAWINGS
E1.0	ELECTRICAL SYMBOLS AND NOTES
E2.0	ELECTRICAL POWER FLOOR PLAN
E3.0	LIGHTING FLOOR PLAN
E4.0	ELECTRICAL SYSTEMS FLOOR PLAN
E5.0	ELECTRICAL RISERS AND DETAILS
E6.0	ELECTRICAL FIXTURE SCHEDULE AND DETAILS
E7.0	ELECTRICAL LIGHTING AND POWER SITE PLAN
E8.0	ELECTRICAL PANEL SCHEDULES
E9.0	ELECTRICAL DEMOLITION PLAN

7011TITLES.MC7

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

ABBREVIATIONS DWG STANDARDS DRAWING LIST

REGISTERED ARCHITECT — ROBERT HOWE No. 1241 — STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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DRAWING NO.

T-2

LEGEND

EXISTING		PROPOSED
126	CONTOUR	
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	BUILDING	
	FENCE (W/TYPE)	
OHE	OVERHEAD ELECTRIC	
	CULVERT	
	TREE LINE	
	SINGLE TREE	
	RIGHT OF WAY	
	FULL DEPTH PAVEMENT CONSTRUCTION	
S	SILTATION FENCE	S
	WORK TO BE PERFORMED IN THIS CONTRACT	

NOTES:

1. DATUM:
   HORIZONTAL BASED UPON ASSUMED COORDINATES.
   VERTICAL IS BASED UPON PLAQUE LOCATED IN NORTH EAST CORNER OF TOWN HALL. ELEV. = 130.48 MSL.
2. NORTH ORIENTATION BASED UPON COMPASS OBSERVATION ON APRIL 21, 1997.

LOCATION MAP
N.T.S.
PROJECT AREA
BLANCHARD ROAD
TUTTLE ROAD
MAIN STREET (ROUTE 9)
WASCUM WAY
RAILROAD
ROOSEVELT
BENJAMIN
MILLER
DROWNE ROAD

CONSTRUCT PAVED BUS LOOP SEE DWG. C-301 FOR TYP. BUILDUP (BY TOWN)

SAWCUT ALL PAVEMENT JOINTS SEE DETAIL DWG. C-301

CONSTRUCT PAVED BYWAY FOR LAYOUT SEE ARCHITECTURAL DRAWINGS. SEE DWG. C-101 FOR PAVEMENT BUILDUP SEE ARCH PLANS FOR BUILDING SIDEWALK LAYOUTS SEE DWG C-301 FOR TYP SIDEWALK BUILDUPS

INSTALL DRYWELL GRADE LAWN AREA TO DRAIN (BY TOWN)

INSTALL DRYWELL GRADE LAWN AREA TO DRAIN (BY TOWN)

PAINTED CROSSWALK PAVEMENT MARKINGS – COLOR WHITE REFLECTIVE HIGHWAY PAINT – SIZE 6'X2' W/ 1' SPACING – TYP

4' "BYWAY" AISLE (BY TOWN)

DITCH TO DRAIN

PROPOSED 6" DUCTILE IRON FIRE SERVICE

STRIPED OUT H.C. UNLOADING AISLES

6" PAINTED WHITE STRIPE TYP

NEW BITUM CURB & WALK

EXSTG CONC PAD NEW BITUM RAMP

NEW BITUM CURB & WALK

EXISTING BIT-CONC PAVEMENT

SLOPED "CAPE COD" TYPE CURB W/ 2:1 SLOPE FROM BLDG CORNER TO END THIS PORTION ONLY

PROVIDE THRUST BLOCKS SEE DETAIL, DWG. C-301

EXSTG TREES TO BE CLEARED TYP.

NEW BIT-CONC PAVEMENT

NEW FULL-DEPTH CONSTRUCTION – BLEND TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT FOR STRAIGHT, CLEAN PATCH (BY TOWN)

STONE SHECK DAM (TYP) SEE DETAIL DWG. C-300

SILT FENCE (TYP) SEE DETAIL DWG. C-300

INSTALL CB RIM = 125.0± INV. IN = 119.0± INV. OUT = 118.9±

INSTALL 15" SD (BY TOWN)

INSTALL CB RIM = 125.5± INV. OUT = 120.0±

SILT FENCE (TYP) SEE DETAIL DWG. C-300

Approx. Location Of Septic Tank Rim Elev. = 125.8 Inv. = 123±

INSTALL 15" SD (BY TOWN)

INV. = 112.0±

INSTALL RIPRAP APRON SEE DETAIL DWG C-300

SOLID WASTE BOUNDARY

Existing Landfill

SEE DWG. C-301 FOR CONTINUATION

Oak Street

Drowne Road

Inv. 124.49

Inv. 126.35

12" RCP

8" Water Line

Water Service

Existing R/W

Wooden Posts

Maintenance Garage

Salt Shed

Chain Link Fence

Paved Ramp

Conc. Pad

Town Offices

Flag Pole

Sign

Sidewalk Ramped To Finish Floor Elevation

Landscaped Area

Bench Mark Elev. 130.48

Conc. Steps

Light Pole

Impoundment Area

CLEANOUT

Shed

Conc. Pad (Generator)

Stockade Fence

L.P. Gas

Grass Area

Chimney

Water Service

Area Of Gravel And Broken Pavement

Concession Stand

Gravel Drive

Kiosk

Exist. Stands

Ball Field

Area Of Broken Pavement

12" Maple

12" Cherry

10" Maple

14" Maple

20' (BY OTHERS)

SCOPE OF WORK

1. STRUCTURAL EXCAVATION AND BACKFILL FOR SCHOOL ADDITION – PAVEMENT REPAIR BY TOWN.
2. INSTALL NEW 6" DUCTILE IRON SEWER.
3. INSTALL NEW 6" DUCTILE IRON WATER SERVICE AND PAVE TRENCH.

1 inch = 20 ft.

NO.	REFERENCE DRAWINGS	REV.	DATE	STATUS	BY	CHKD	APPD
		1	8/29/97	ISSUED FOR BID	MSB	DWY	JRK

STATE OF MAINE JOHN ROBERT KENNEDY JR 6309 REGISTERED PROFESSIONAL ENGINEER 8.29.97

SQUAW BAY CORP.
Consulting Engineers
P.O. BOX 86A, CUMBERLAND CENTER, ME. 04021

CLIENT: TOWN OF CUMBERLAND
CUMBERLAND, MAINE

FIELD BOOK # 970	DESIGN: TWS	
FIELD BOOK PAGE	DRAWN: TWS	
FLAT FILE INDEX NUMBER	CHKD: DWY	
PROJECT DIR. 97-20003	DATE: MAY 1997	
DRAWING NAME 9720003	SCALE: 1" = 20'	

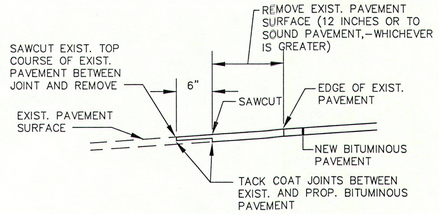
PROJECT: DROWNE ROAD SCHOOL ADDITIONS
DROWNE ROAD, CUMBERLAND, MAINE

SITE PLAN

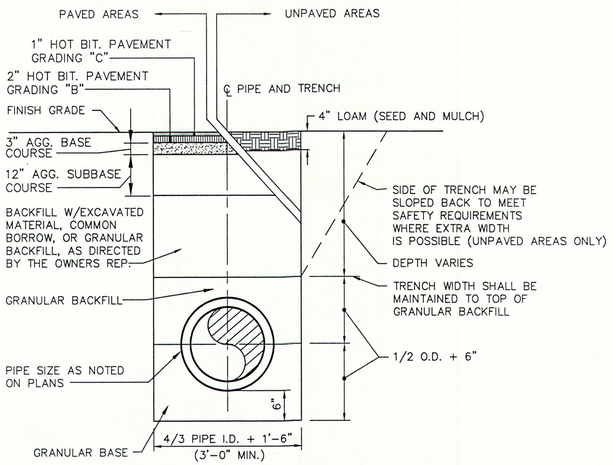
PROJ. NO. 97-200-03

DWG. NO. C-100 REV. 1

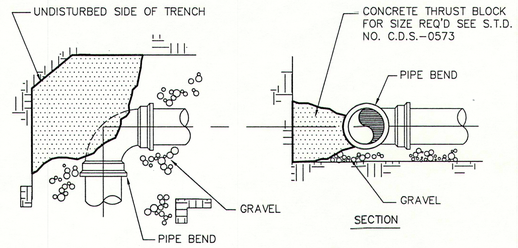
D:\97 20003\ACAD\9720003 Fri Aug 29 08:11:23 1997



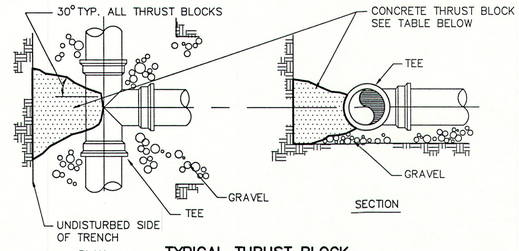
BUTT JOINT DETAIL
N.T.S.



TYPICAL TRENCH DETAIL
N.T.S.



TYPICAL THRUST BLOCK PLACEMENT ON BENDS
N.T.S.



TYPICAL THRUST BLOCK PLACEMENT ON TEES
N.T.S.

SIZE REQUIREMENTS FOR CONCRETE THRUST BLOCKS

		BEARING ON UNDISTURBED SOIL (SQUARE FT.)			
FITTINGS		90° BENDS	45° BENDS	TEES & PLUGS	HYDRANTS
PIPE SIZE	4"	2.0	1.0	1.0	N/A
	6"	3.0	2.0	2.0	6.0
	8"	5.0	3.0	4.0	N/A
	10"	7.0	4.0	5.0	N/A
	12"	10.0	6.0	7.0	N/A
	14"	13.0	7.0	10.0	N/A
	16"	17.0	9.0	12.0	N/A

NO.	REFERENCE DRAWINGS	REV.	DATE	STATUS	BY	CHKD	APPD
		1	8/29/97	ISSUED FOR BID	MSB	DWY	JRK

STATE OF MAINE
JOHN ROBERT KENNEDY, JR.
3093
REGISTERED PROFESSIONAL ENGINEER
8.25.97

SQUAW BAY CORP.
Consulting Engineers
P.O. BOX 86A, CUMBERLAND CENTER, ME. 04021

CLIENT:
TOWN OF CUMBERLAND
CUMBERLAND, MAINE

FIELD BOOK #	XX
FIELD BOOK PAGE	XX
FLAT FILE INDEX NUMBER	XX
PROJECT DIR.	97–20003
DRAWING NAME	C–301

DESIGN:	TWS
DRAWN:	TWS
CHKD:	RDA
DATE:	MAY 1997
SCALE:	AS NOTED

PROJECT:
DROWNE ROAD SCHOOL ADDITIONS
DROWNE ROAD, CUMBERLAND, MAINE

MISCELLANEOUS CIVIL DETAILS

PROJ. NO. 97–200–03 REV.
DWG. NO. C–301

D:\97-20003\ACADVC-301 Fri Aug 29 08:15:25 1997

NOTES:

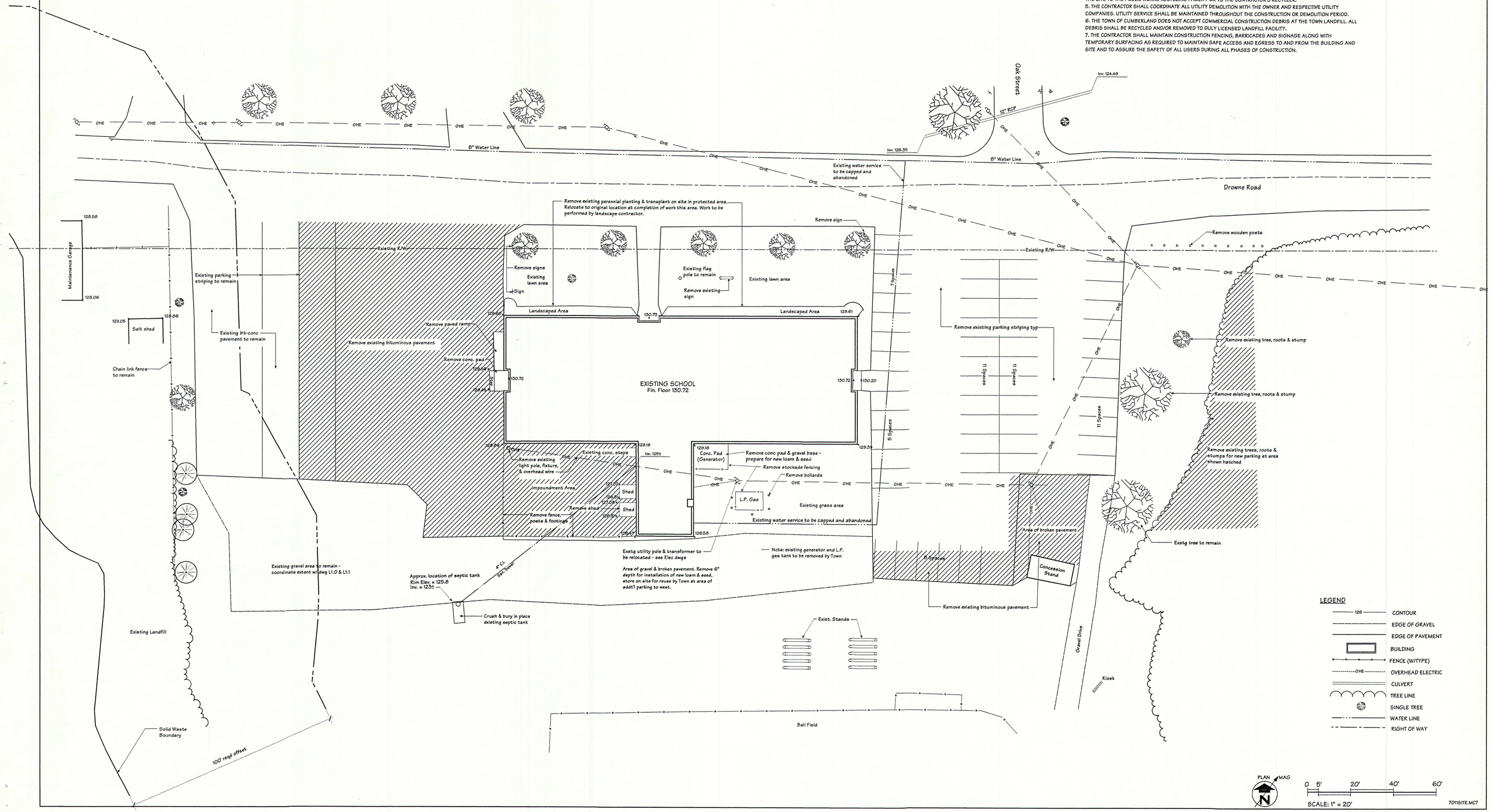
1. DATUM:

HORIZONTAL BASED UPON ASSUMED COORDINATES. VERTICAL IS BASED UPON PLAQUE LOCATED IN NORTH EAST CORNER OF TOWN HALL. ELEV. = 130.48 MSL.

2. NORTH ORIENTATION BASED UPON COMPASS OBSERVATION ON APRIL 21, 1997.

DEMOLITION GENERAL NOTES:

1. ALL LOAM STRIPPED FROM THE SITE SHALL REMAIN ON SITE OR OTHER DESIGNATED AREAS AND SHALL BE THE PROPERTY OF THE OWNER. SEE GRADING AND EROSION CONTROL PLANS FOR LOCATION OF STOCKPILE AREAS.
2. SAW CUT ALL PAVEMENT EDGES AT STREETS BEFORE REMOVING EXISTING PAVEMENT IN PUBLIC WAYS. COORDINATE ALL REMOVALS W/ PUBLIC WORKS DEPT.
3. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK AS REQUIRED TO MAINTAIN SAFE ACCESS AND EGRESS, AND OPERATION OF BUILDING, SITE AND UTILITIES. COORDINATE ALL REMOVALS WITH THE OWNER.
4. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL DEMOLITION WORK. PAVEMENT SHALL BE REMOVED FROM THE SITE TO THE PUBLIC WORKS RECYCLING FACILITY OR TO THE CONTRACTOR'S RECYCLER.
5. THE CONTRACTOR SHALL COORDINATE ALL UTILITY DEMOLITION WITH THE OWNER AND RESPECTIVE UTILITY COMPANIES. UTILITY SERVICE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OR DEMOLITION PERIOD.
6. THE TOWN OF CUMBERLAND DOES NOT ACCEPT COMMERCIAL CONSTRUCTION DEBRIS AT THE TOWN LANDFILL. ALL DEBRIS SHALL BE RECYCLED AND/OR REMOVED TO DULY LICENSED LANDFILL FACILITY.
7. THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION FENCING, BARRICADES AND SIGNAGE ALONG WITH TEMPORARY SURFACING AS REQUIRED TO MAINTAIN SAFE ACCESS AND EGRESS TO AND FROM THE BUILDING AND SITE AND TO ASSURE THE SAFETY OF ALL USERS DURING ALL PHASES OF CONSTRUCTION.



LEGEND

- 126 — CONTOUR
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- BUILDING
- FENCE (W/TYPE)
- OHE — OVERHEAD ELECTRIC
- CULVERT
- TREE LINE
- SINGLE TREE
- WATER LINE
- RIGHT OF WAY

PLAN MAG N

0 5' 20' 40' 60'

SCALE: 1" = 20'

7011SITE.MC7

TERRIEN ARCHITECTS

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

EXISTING CONDITIONS & DEMOLITION PLAN

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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DRAWING NO.

L0.1

NOTES:

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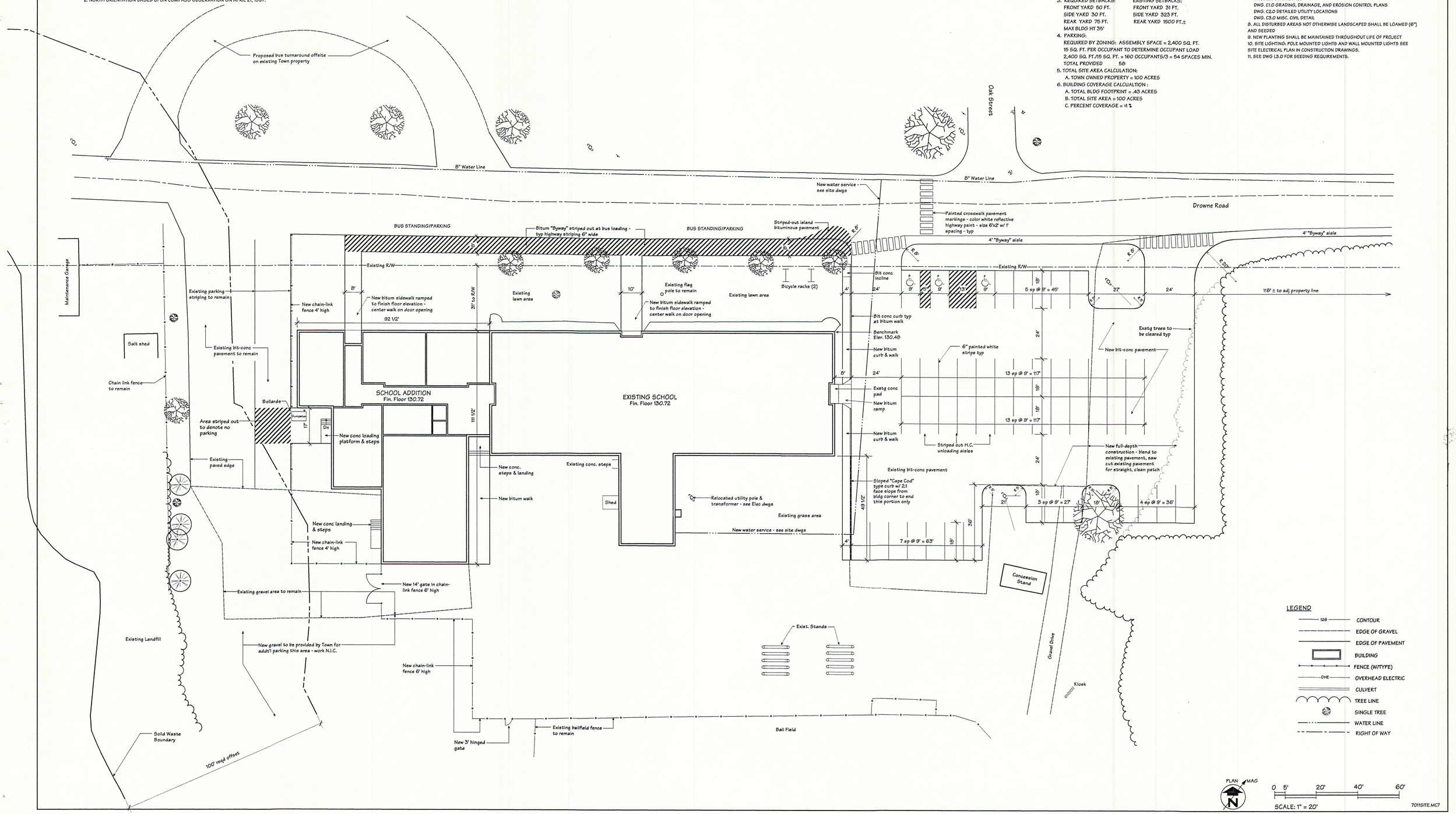
2. NORTH ORIENTATION BASED UPON COMPASS OBSERVATION ON APRIL 21, 1997.

SURVEYORS NOTES:

1. FIELD SURVEY PERFORMED IN APRIL, 1997.
2. PARCEL IS DESIGNATED AS LOT 51A ON CUMBERLAND TAX MAP R3.
3. PARCEL DEED REFERENCE IS BOOK 589, PAGE 204.

GENERAL NOTES:

1. BASE INFORMATION BASED ON SURVEY PREPARED BY SQUAW BAY CORP. CUMBERLAND, MAINE.
2. PROVISIONS OF ZONING: SEC. 204
   ZONE: RR, RURAL RESIDENTIAL, DISTRICT 1, 204.1.1.2
3. REQUIRED SETBACKS: / EXISTING SETBACKS:
   FRONT YARD 50 FT. / FRONT YARD 31 FT.
   SIDE YARD 50 FT. / SIDE YARD 323 FT.
   REAR YARD 75 FT. / REAR YARD 1500 FT.±
   MAX BLDG HT 35'
4. PARKING:
   REQUIRED BY ZONING: ASSEMBLY SPACE = 2,400 SQ. FT.
   15 SQ. FT. PER OCCUPANT TO DETERMINE OCCUPANT LOAD
   2,400 SQ. FT./15 SQ. FT. = 160 OCCUPANTS/3 = 54 SPACES MIN.
   TOTAL PROVIDED 56
5. TOTAL SITE AREA CALCULATION:
   A. TOWN OWNED PROPERTY = 100 ACRES
6. BUILDING COVERAGE CALCUALTION :
   A. TOTAL BLDG FOOTPRINT = .43 ACRES
   B. TOTAL SITE AREA = 100 ACRES
   C. PERCENT COVERAGE = .1 %
7. SEE THE FOLLOWING PLANS FOR ADDITIONAL INFORMATION:
   DWG. L0.1 DEMOLITION/EXISTING CONDITIONS
   DWG. L1.2 PLANTING PLAN
   DWG. L3.0 SITE DETAILS
   DWG. L3.1 SITE DETAILS
   DWG. C1.0 GRADING, DRAINAGE, AND EROSION CONTROL PLANS
   DWG. C2.0 DETAILED UTILITY LOCATIONS
   DWG. C3.0 MISC. CIVIL DETAIL
8. ALL DISTURBED AREAS NOT OTHERWISE LANDSCAPED SHALL BE LOAMED (6") AND SEEDED
9. NEW PLANTING SHALL BE MAINTAINED THROUGHOUT LIFE OF PROJECT
10. SITE LIGHTING: POLE MOUNTED LIGHTS AND WALL MOUNTED LIGHTS SEE SITE ELECTRICAL PLAN IN CONSTRUCTION DRAWINGS.
11. SEE DWG L3.0 FOR SEEDING REQUIREMENTS.



LEGEND

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- EDGE OF GRAVEL
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- BUILDING
- FENCE (W/TYPE)
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- CULVERT
- TREE LINE
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- WATER LINE
- RIGHT OF WAY

PLAN NORTH / MAG

0 5' 20' 40' 60'

SCALE: 1" = 20'

7011SITE.MC7

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

SITE PLAN

REGISTERED ARCHITECT — ROBERT HOWE No. 1241 — STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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DRAWING NO.

L1.0

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LANDSCAPE NOTES:

1. BASE INFORMATION BASED ON SURVEY PREPARED BY SQUAW BAY CORP., CUMBERLAND, MAINE.
2. ALL PLANTING SHALL MEET OR EXCEED AMER. NURSERYMENS' ASSOC. STANDARDS FOR MATERIAL AND INSTALLATION.
3. SEE SITE DETAILS FOR PLANTING DETAILS AND NOTES.
4. PROTECT ALL EXISTING TREES DURING CONSTRUCTION. SEE SITE DETAILS FOR TYP TREE PROTECTION METHODS.
5. SEE DWG L1.1 FOR SEEDING SCHEDULE.
6. PROVIDE 36" WIDE SOD AROUND ALL FIELD INLETS, STAKE IF REQUIRED AND SECURE W/ MESH.
7. AFTER ACCEPTANCE OF THE PLANTINGS AND LAWNS BY THE OWNER, AND AFTER FINAL ACCEPTANCE OF PLANTINGS AND LAWN BY THE OWNER AT THE END OF THE WARRANTEE PERIOD, THE PLANTINGS SHALL BE MAINTAINED FOR THE LIFE OF THE PROJECT BY THE OWNER, AS REQUIRED BY THE TOWN'S DEVELOPMENT CODE.
8. SEE DWG. L1.0 FOR PROJECT GEN NOTES.
9. ALL SHRUB PLANTINGS SHALL BE IN A CONTINUOUS MULCH BED.
10. THE CONTRACTOR SHALL PROVIDE SOIL TEST FROM LOAM SITE AS WELL AS FROM LOAM DELIVERED TO THE JOB SITE AS NECESSARY TO DEMONSTRATE COMPLIANCE W/ SPEC.

SEEDING NOTES:

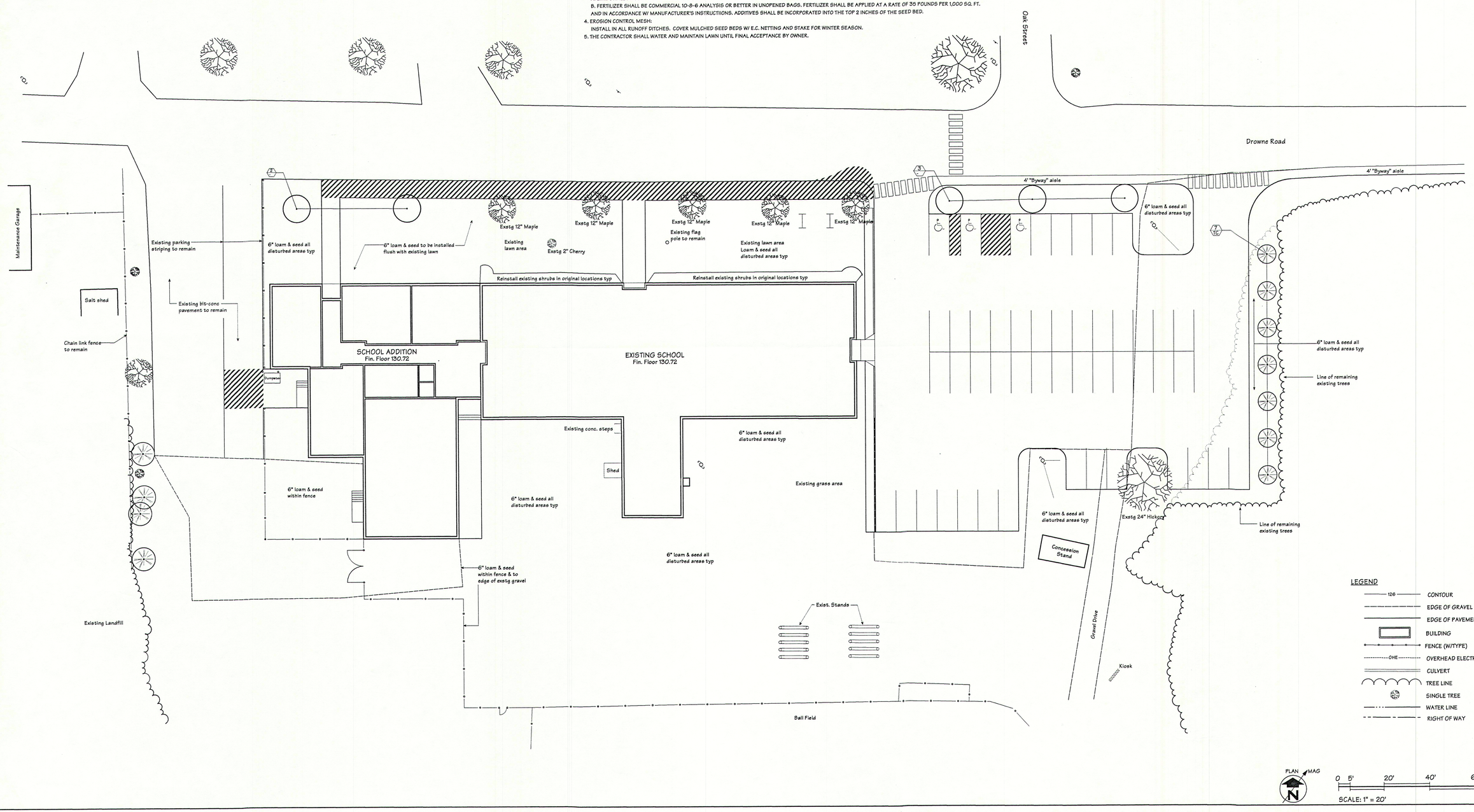
1. GRASS SEED SHALL BE FRESH, CLEAN NEW CROP DATED NO EARLIER THAN 1997.
2. SEED SHALL BE DEALER MIXED AND HAVE DEALER CERTIFICATION CONFORMING TO THE FOLLOWING REQUIREMENTS:
   A. SEED MIXTURE:
      1. 40% KENTUCKY BLUEGRASS
      2. 35% RED FESCUE
      3. 25% PERENNIAL RYEGRASS
   B. APPLICATION RATE:
      1. SEED SHALL BE APPLIED WITH MECHANICAL SPREADER AT 5# PER 1,000 SQ. FT. RAKE LIGHTLY AND ROLL AND WATER AS REQUIRED.
   C. APPLICATION TIME:
      1. TEMPORARY SEED SHALL BE APPLIED IMMEDIATELY AS SOON AFTER SOIL DISTURBANCE AS POSSIBLE. BEFORE APRIL 15 AND AFTER OCT 15, SEED SHALL BE WINTER RYE OR OTHER MDOT TEMP SEEDING WITH MULCH AND MULCH-BINDER APPLIED IN SEPARATE APPLICATIONS.
      2. PERMANENT SEED SHALL BE APPLIED DIRECTLY ON PREPARED TOPSOIL AFTER APRIL 15 AND BEFORE OCT 15, OR AS OTHERWISE APPROVED BY THE ARCHITECT.
3. ADDITIVES:
   A. SOILS ANALYSIS SHALL BE PROVIDED BY THE CONTRACTOR. ADDITIVES SHALL BE PROVIDED PER THE SOILS ANALYSIS. OTHERWISE, AS INDICATED BELOW:
   A. LIME SHALL BE COMMERCIAL GROUND LIME APPLIED AT A RATE OF 100# PER 1,000 SQ. FT.
   B. FERTILIZER SHALL BE COMMERCIAL 10-8-6 ANALYSIS OR BETTER IN UNOPENED BAGS. FERTILIZER SHALL BE APPLIED AT A RATE OF 35 POUNDS PER 1,000 SQ. FT. AND IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIIONS. ADDITIVES SHALL BE INCORPORATED INTO THE TOP 2 INCHES OF THE SEED BED.
4. EROSION CONTROL MESH:
   INSTALL IN ALL RUNOFF DITCHES. COVER MULCHED SEED BEDS W/ E.C. NETTING AND STAKE FOR WINTER SEASON.
5. THE CONTRACTOR SHALL WATER AND MAINTAIN LAWN UNTIL FINAL ACCEPTANCE BY OWNER.

PLANT LIST

KEY	NO.	BOTANICAL NAME	COMMOM NAME	SIZE	METHOD
TREES					
-	5	-	Match existing maples	3"-3 1/2" cal	Anchored
TC	7	Tsuga canadensis	Canadian Hemlock	8-6 ft	Anchored
SHRUBS					
-	-	-	-	-	-
PERENNIALS					
-	-	-	-	-	-

~~SEE L3.0 FOR PLANTING DETAILS~~

PLANT KEY: 4 TC — NUMBER OF PLANTS; KEY TO PLANT NAME



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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

PLANTING PLAN

REGISTERED ARCHITECT · ROBERT HOWE No. 1241 · STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

DRAWING NO. L1.1

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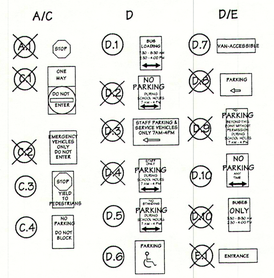


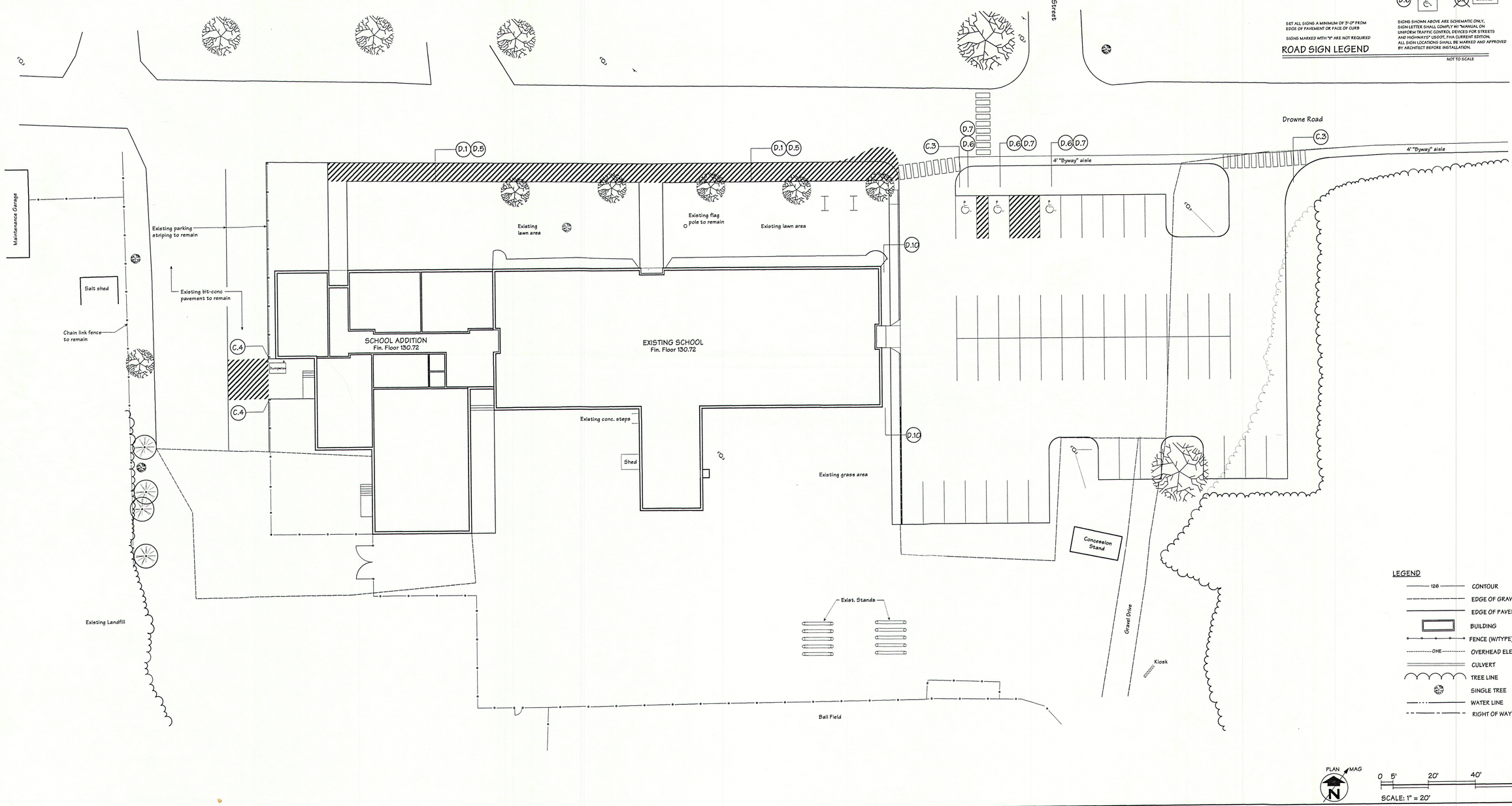
SET ALL SIGNS A MINIMUM OF 3'-0" FROM EDGE OF PAVEMENT OR FACE OF CURB

SIGNS MARKED WITH "X" ARE NOT REQUIRED

SIGNS SHOWN ABOVE ARE SCHEMATIC ONLY. SIGN LETTER SHALL COMPLY W/ "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" USDOT, FHA CURRENT EDITION. ALL SIGN LOCATIONS SHALL BE MARKED AND APPROVED BY ARCHITECT BEFORE INSTALLATION.

ROAD SIGN LEGEND

NOT TO SCALE



LEGEND

- CONTOUR
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- BUILDING
- FENCE (W/TYPE)
- OHE — OVERHEAD ELECTRIC
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- TREE LINE
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- WATER LINE
- RIGHT OF WAY

PLAN MAG N

0 5' 20' 40' 60'

SCALE: 1" = 20'

7011SITE.MC7

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ADDITIONS & RENOVATIONS

SIGNAGE PLAN

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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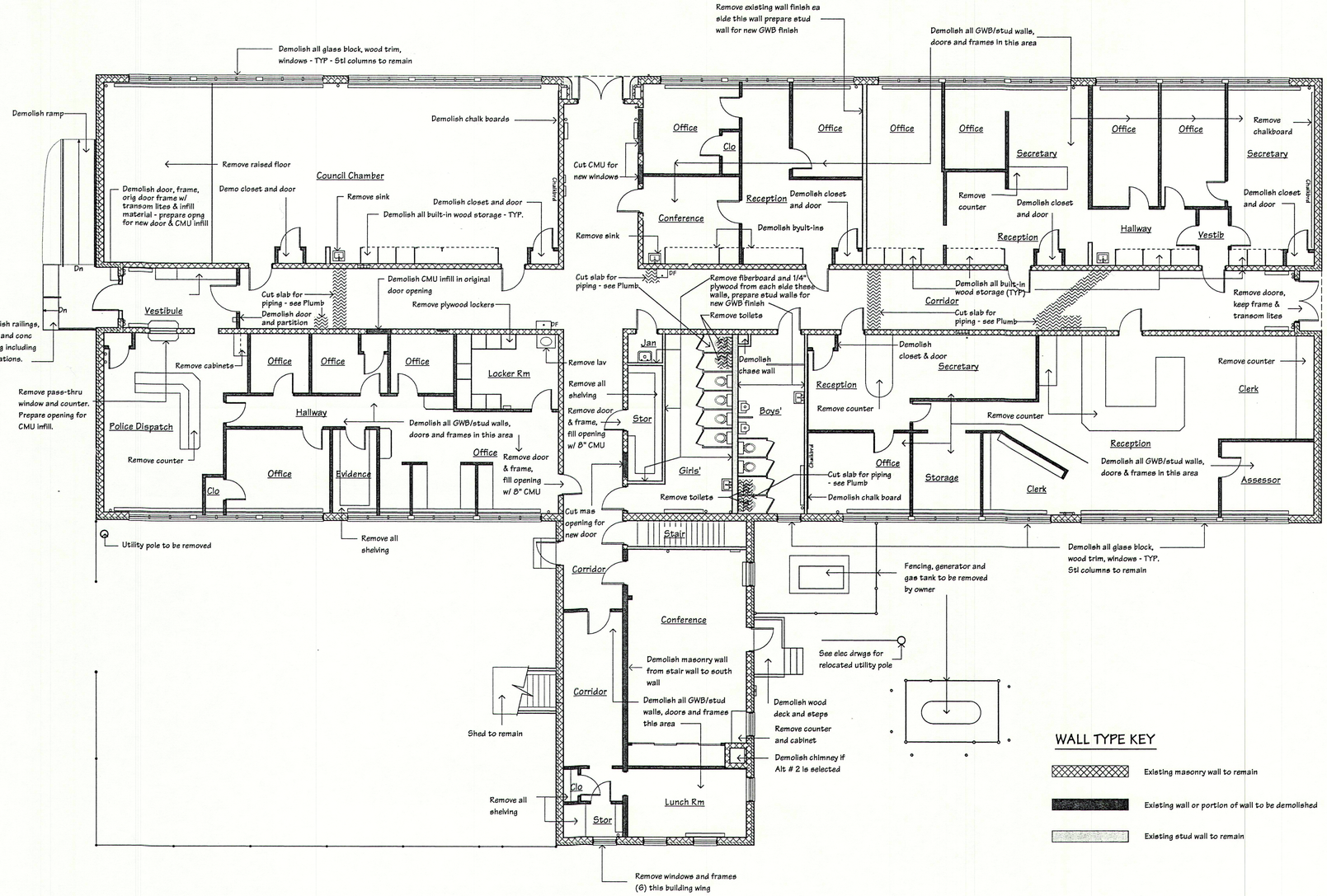
DRAWING NO.

L1.2

GENERAL DEMOLITION NOTES:

1. COORDINATE ALL DEMOLITION DESCRIBED ON DEMOLITION PLAN WITH NEW CONSTRUCTION AS DESCRIBED ON DWG A1.1 & W/ DEMOLITION ELEVATIONS & DETAILS ON DWG D2.1. SELECTED OPENINGS & PENETRATIONS MAY BE REQUIRED TO COORDINATE & EXECUTE THE WORK. MAINTAIN THE STRUCTURAL INTEGRITY & THERMAL PERFORMANCE OF THE BUILDING FOR THE DURATION OF OCCUPANCY.
2. COORDINATE WORK, INCLUDING SELECTIVE CUTTING AND PENETRATIONS, WITH SITE, STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS. SEE APPROPRIATE DRAWINGS IN THIS SET.
3. IF DISCREPANCIES ARE FOUND IN THE DEMOLITION WORK DESCRIBED ON THIS DRAWING, NOTIFY THE ARCHITECT FOR DIRECTION BEFORE PROCEEDING WITH THE WORK.
4. SEE STRUCTURAL DRAWINGS FOR TYPICAL LINTELS OR NEW BEAMS AT NEW DOOR OPENINGS SHOWN ON THIS PLAN.
5. NEW DOOR OPENINGS IN EXISTING WALLS SHALL BE CONSTRUCTED TO REQUIRED DIMENSIONS FOR NEW DOOR SIZES LISTED ON DOOR SCHEDULE. COORDINATE NEW MASONRY OPENINGS WITH ARCHITECTURAL PLANS
6. WALLS TO BE DEMOLISHED (SHOWN HATCHED) ARE TO BE REMOVED FULL HEIGHT UNLESS NOTED OTHERWISE.
7. ALL EQUIPMENT NOTED ON THIS PLAN TO BE REMOVED OR OTHERWISE REQUIRED TO BE MOVED FOR THE DESIGN INTENT SHALL BE SAFELY STORED ON THE SITE FOR THE OWNER TO REVIEW PRIOR TO DISPOSAL BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING EXISTING STRUCTURES DURING THE COURSE OF ALL DEMOLITION WORK.
9. COORDINATE ROOFING DEMOLITION WITH NEW ROOF WORK SHOWN ON ROOF PLAN A1.2.
10. HOLES LEFT BY REMOVALS IN EXISTING FLOORS SHALL BE REPAIRED, PATCHED & LEFT READY FOR THE INSTALLATION OF NEW FLOOR FINISHES AS NOTED ON THE FINISH SCHEDULE. MATCH ALL EXISTING GRADES AND LINES.
11. ERECT DUST PARTITIONS AS APPROPRIATE TO PREVENT THE MIGRATION OF DEMOLITION DUST AND DEBRIS TO OTHER PARTS OF THE BUILDING. COORDINATE LOCATIONS OF SUCH PARTITIONS WITH ARCHITECT AND OWNER.
12. ABANDONED DRAIN LINES, PIPES, OR DUCTS ARE TO BE REMOVED. WHERE PRACTICAL, LINES ARE TO BE CUT BACK OR TERMINATED WELL BEHIND NEW COVERING SURFACE WORK.
13. WHEN REMOVING EXISTING WALLS, PARTIAL PARTITIONS, COUNTERS, OR OTHER FIXED ITEMS, REMOVE MATERIAL TO SUCH A DEPTH SO AS TO ACCOMODATE FILLING AND PATCHING TO AN APPROPRIATE LEVEL TO ACCEPT FUTURE NEW WORK. CUT AND PATCH INTO THESE VOIDS TO ACCOMPLISH FLUSH FINISHED CONDITIONS.
14. WHEN REMOVING CONSTRUCTION MATERIAL (STEEL, MASONRY, PLASTER, FLOORING AND OTHER MATERIALS) ALWAYS GRIND SMOOTH OR OTHERWISE LEVEL ALL EDGES AND SURFACES. GRIND OR SMOOTH ALL SIDES TO LEAVE IN CLEAN, STRAIGHT, LIKE-NEW CONDITION WITH NO JAGGED EDGE OR FACE CONDITIONS.
15. IN GENERAL, PATCH ALL HOLES MADE OR AREAS OF EXISTING MATERIALS REMOVED, IN ORDER TO INSTALL NEW WORK WITH LIKE MATERIAL SO THAT PATCH MATERIAL IS FINISHED TIGHT TO SURROUNDING SURFACES AND INSTALLED MATERIALS, LEAVING NO GAPING HOLES BETWEEN BUILDING SPACES.
16. REMOVE ALL ACOUSTIC HUNG CEILING AND METAL GRID. AT LOCATIONS WHERE CELLULOSE INSULATION HAS DROPPED ONTO ACOUSTIC CEILING ALSO REMOVE INSULATION. RE-FASTEN EXISTING FIBERBOARD TILE CEILING ON UNDERSIDE OF ROOF FRAMING WHERE IT IS SAGGING OR BROKEN LOOSE, SECURE IN PLACE W/NEW BATTENS.
17. CUT EXISTING CONCRETE FLOOR SLAB AND OPEN BOTTOM OF PLUMBING WALL AS NEEDED IN EXISTING TOILET ROOMS IN ORDER TO INSTALL TWO (2) NEW HC TOILETS AND NEW BELOW SLAB PIPING TO CONNECT TO EXISTING WASTE PIPING.



1 / D1.1 DEMOLITION PLAN
Scale: 1/8"=1'-0"

7011PLANS.MC6

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

DEMOLITION PLAN

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 AUG 1997
REVISIONS:

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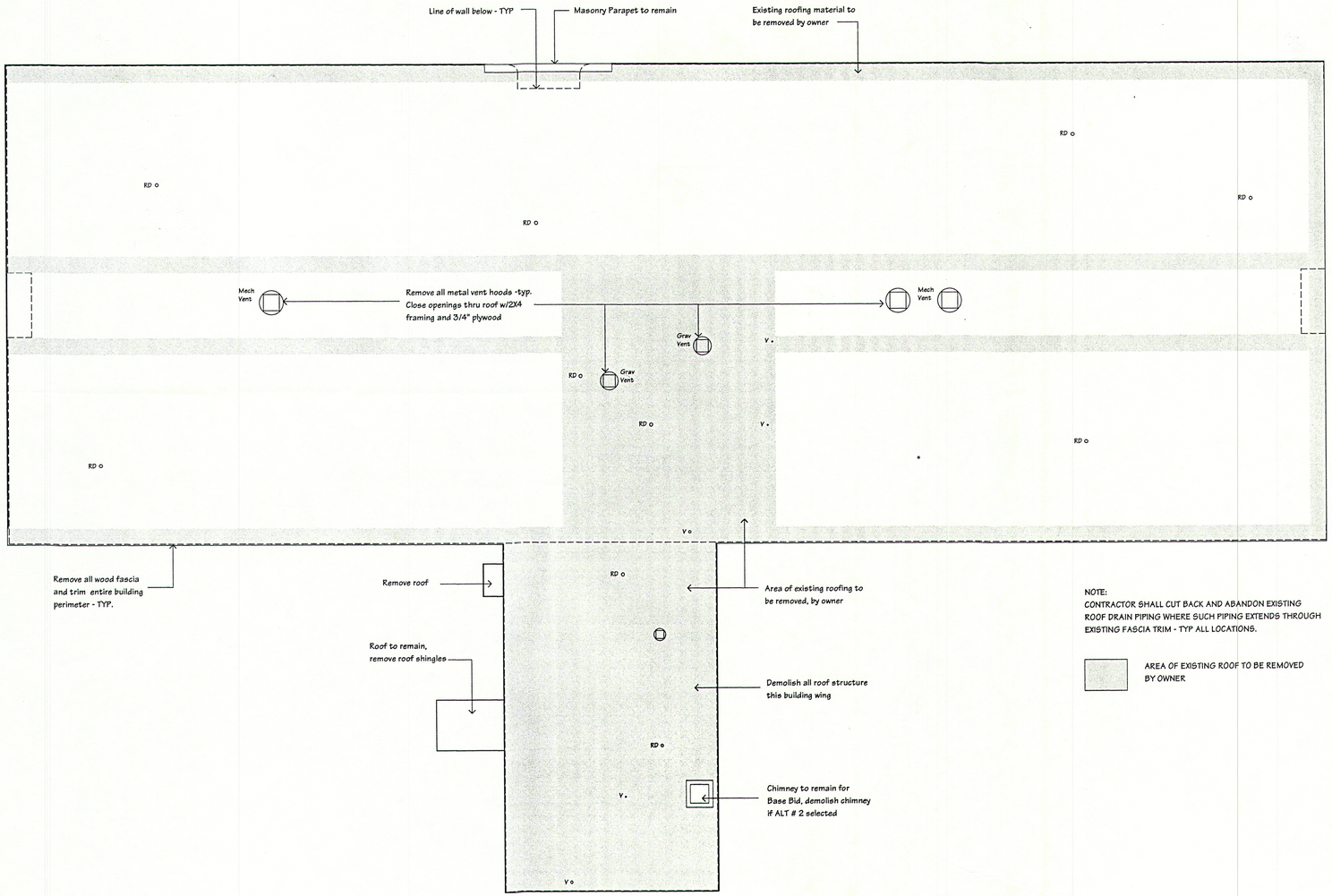
DRAWING NO.

D1.1



NOTE:
CONTRACTOR SHALL CUT BACK AND ABANDON EXISTING ROOF DRAIN PIPING WHERE SUCH PIPING EXTENDS THROUGH EXISTING FASCIA TRIM - TYP ALL LOCATIONS.

AREA OF EXISTING ROOF TO BE REMOVED BY OWNER

1 / D1.2 DEMOLITION ROOF PLAN
Scale: 1/8"=1'-0"

PLAN MAG

7011PLANS.MC6

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ADDITIONS & RENOVATIONS

ROOF DEMOLITION PLAN

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

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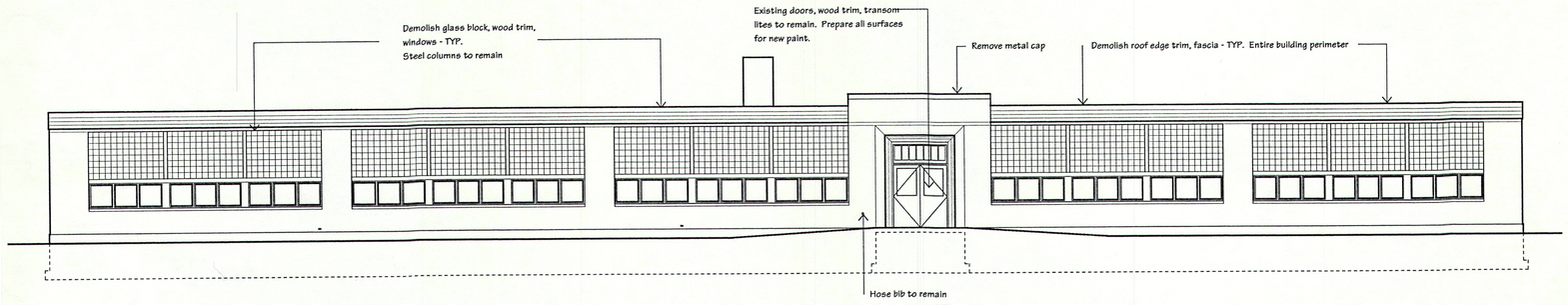
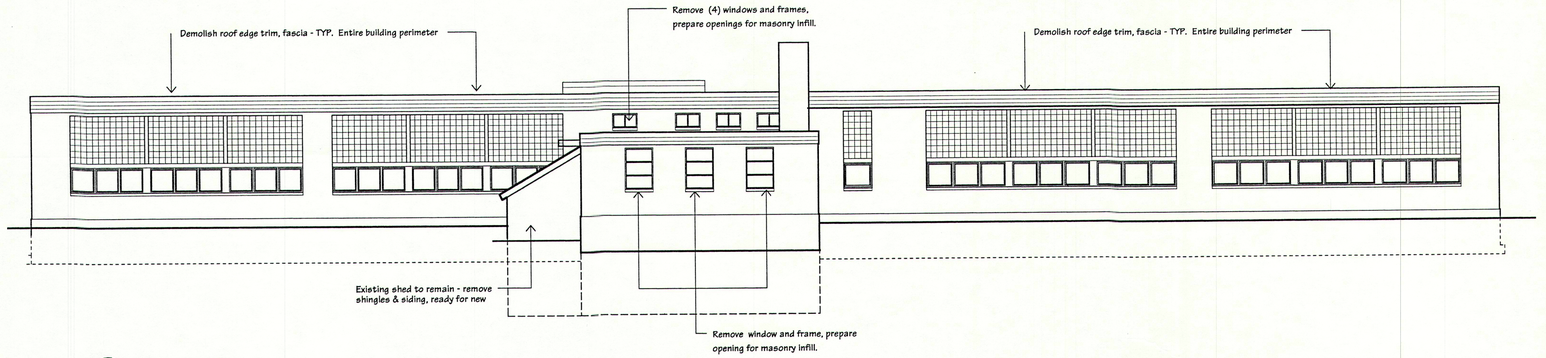
DRAWING NO.

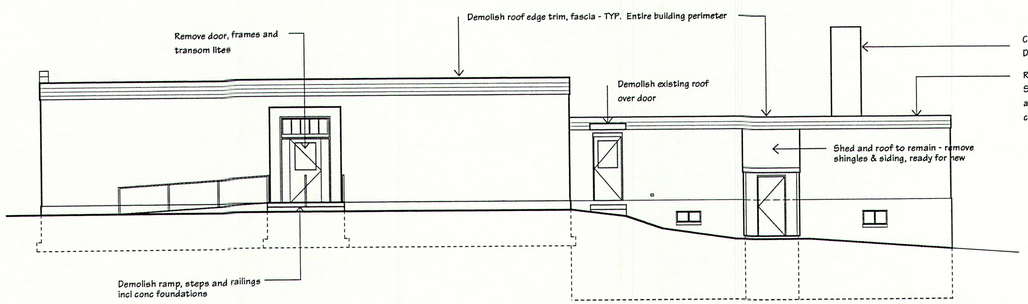
D1.2



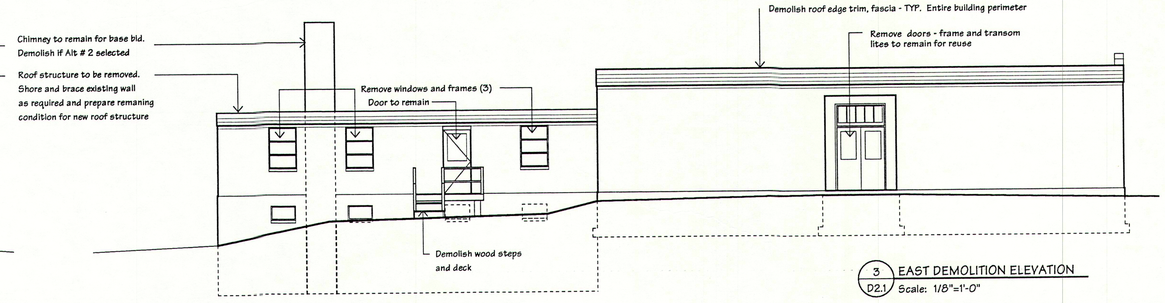
1 / D2.1 NORTH DEMOLITION ELEVATION
Scale: 1/8"=1'-0"



2 / D2.1 SOUTH DEMOLITION ELEVATION
Scale: 1/8"=1'-0"



4 / D2.1 WEST DEMOLITION ELEVATION
Scale: 1/8"=1'-0"



3 / D2.1 EAST DEMOLITION ELEVATION
Scale: 1/8"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

7011ELEV.MC6

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ADDITIONS & RENOVATIONS

DEMOLITION ELEVATIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
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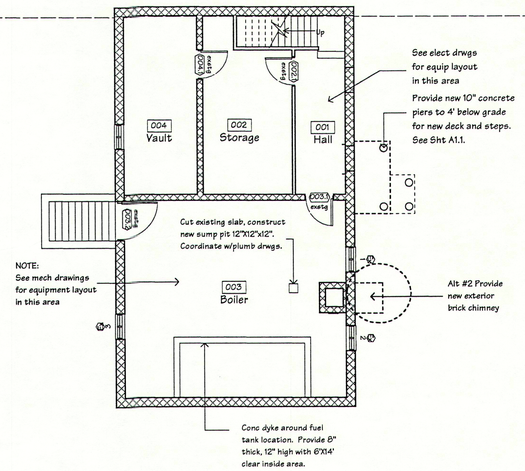
DRAWING NO.

D2.1

NEW FLOOR SLAB

EXISTING 1ST FLOOR SLAB



1 / A1.0 BASEMENT PLAN
Scale: 1/8"=1'-0"

PLAN MAG

7011PLANS.MC6

TERRIEN
ARCHITECTS

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

BASEMENT PLAN

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 AUG 1997
REVISIONS:

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DRAWING NO.
A1.0

GENERAL NOTES:

1. All new classroom walls shall be constructed full height to bottom of existing roof structure or bottom chord of new roof structure. At new structure, provide metal slip track at top of walls with vertical leg length sufficient to accomodate anticipated truss deflection - coordinate w/truss fabricator.
2. Dimensions shown are to face of stud or masonry, U.N.O.
3. Coordinate construction of masonry recesses in interior wall for cab-unit heaters, electrical panels, water coolers, etc. w/manufacturer's required opening dimensions. Provide lintels as required - TYP.
4. No mech or plumbing piping shall be installed or enclosed in unheated spaces.
5. At locations in existing building where cellulose insulation has dropped out onto existing ceilings below, following ceiling demolition, refasten existing fiberboard tile ceiling where possible on underside of roof framing after replacing missing insulation w/12" batt, secure in place w/new battens.
6. All classrooms shall have a paper towel dispenser installed at the sink. It shall be provided by the Owner and installed by the Contractor.
7. Provide & install 3/4" plywood walkway decking within all roof spaces over building corridors below. Install for access from roof-level mechanical rooms typical.

2 A1.1 MECHANICAL AREA PLAN
Scale: 1/8"=1'-0"

3 A1.1 MECHANICAL AREA PLAN
Scale: 1/8"=1'-0"

EXISTING BUILDING

Note: see Dtl 3/A8.2 for sim conc step construction details
Stair #1 - Provide:
6 risers @ 7"
(coordinate w/grading)
3 treads @ 12"
Stair #2 - Provide:
6 risers @ 6 7/8"
(coordinate w/grading)
5 treads @ 12"

Wall Symbol Key

- Existing masonry wall to remain
- Existing interior wall to remain
- Portion of existing wall to be infilled or removed
- New wall
- FE — New wall mounted Fire Extinguisher w/bracket

Gross Building Area = 10,915 s.f.
Corridor Area = 1,948 s.f.
Gross Addition Area = 7,689 s.f.

1 A1.1 FIRST FLOOR PLAN
Scale: 1/8"=1'-0"

PLAN MAG

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

7011PLANS.MC6

TERRIEN ARCHITECTS

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

FLOOR PLAN

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 AUG 1997
REVISIONS:

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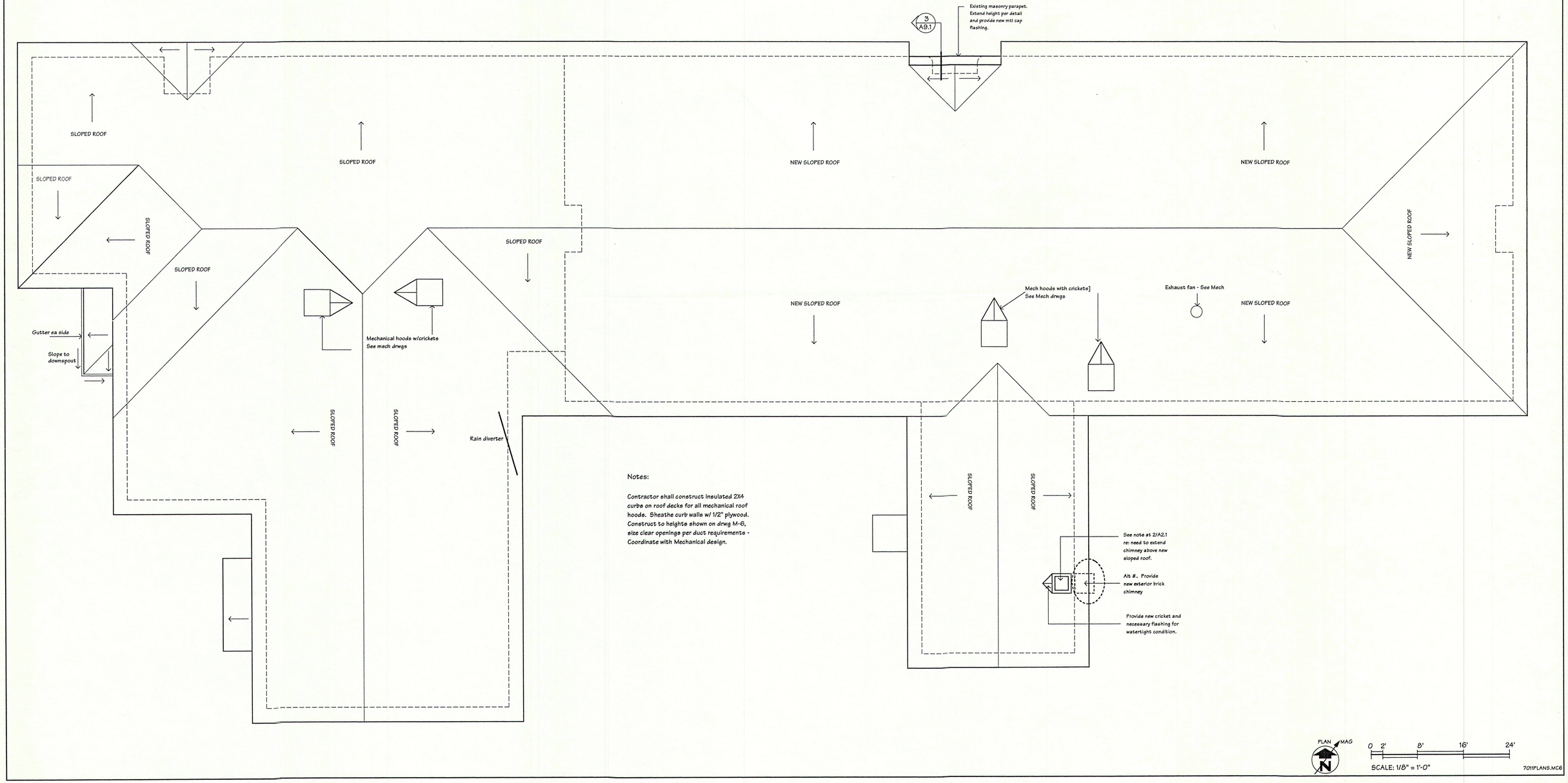
DRAWING NO.
A1.1



Notes:

Contractor shall construct insulated 2X4 curbs on roof decks for all mechanical roof hoods. Sheathe curb walls w/ 1/2" plywood. Construct to heights shown on drwg M-6, size clear openings per duct requirements - Coordinate with Mechanical design.

7011PLANS.MC6

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

ROOF PLAN

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 AUG 1997
REVISIONS:

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DRAWING NO.

A1.2

New sloped roof

Ridge Vent

Attach clear finish alum letters to brick face - text shown is representational only, actual text to be determined by Owner

New masonry parapet extension w/painted mtl cap

3 A9.1

Asphalt shingles - TYP

1'-0"

3'-6"

DROWNE SCHOOL

1 A9.1

Painted wood roof edge trim - TYP

2 A9.1

3 A9.1

Masonry CJ

New wood shingle siding w/ new windows

Existing hose bib to remain

Note: Repair existing masonry as required at top corners of large window openings at north and south sides of existing building. See note at Elev 2 below for specific location of known deterioration.

Painted 5/4 wood trim - TYP

Building addition

1 A2.1 NORTH ELEVATION

Scale: 1/8"=1'-0"

4 A8.3

Louver vent

3 A8.2

Exhaust vent - See Mech drwgs

CJ

Conc foundation - TYP

Painted stl column See struct drwgs

End of brick veneer at service door beyond

Vinyl clapboard siding - TYP

Exterior stair and landing

BASE BID: Vinyl clapboard siding

ALTERNATE # 5: Wood shingles south elevation of multipurpose room only.

Building addition

New sloped roof asphalt shingles - TYP

New brick and CMU infill in 4 openings, building wall beyond

Note: Extend chimney as required to provide minimum final height 3' above roof surface within 10' distance

Construct cricket on upslope side of chimney, flash to existing brick Provide new step flashing at existing chimney

Repair spalled brick and mortar at corners of window openings. clean off rusted lintels, prime and repaint at all locations around existing building. Review all locations for poor conditions - locations shown identify type of condition to be repaired.

Alt # 2. Provide new exterior brick chimney

Alt #2 1 A9.1

BASE BID: Vinyl clapboard siding (TYP)

ALTERNATE # 4: Wood clapboards at existing wall infill only (TYP).

New CMU & brick infill where window removed

New vinyl clapboard siding on existing shed - TYP

New hose bib on west wall room 118 - See Plumb drwgs

New windows all locations - TYP

Painted 5/4 wood trim - TYP

2 A2.1 SOUTH ELEVATION

Scale: 1/8"=1'-0"

1 A8.2

Entry parapet beyond

Entry gable beyond

Louver vent

3 A8.3 Sim @ canopy roof

Exhaust louver, bottom @ 15' AFF - See Mech drwgs

Painted wood roof edge trim - TYP

2 A8.2

3 A8.3

Painted 5/4 wood trim - TYP

Vinyl clapboard siding - TYP

BRICK

Gutter downspout provide splashblock

Hose bib - See Plumbing

Covered delivery

Covered exit

Vinyl clapboard siding - TYP

4 A2.1 WEST ELEVATION

Scale: 1/8"=1'-0"

Section at high wall beyond

1 A8.4

New flashing, mortar into existing joints

3 A8.4 Opp hand

Vinyl clapboard siding

New masonry parapet extension w/painted mtl cap

Painted wood roof edge trim - TYP

Height of brick beyond

Construct masonry control joint at mid point of new brick wall beyond

Brick on wall beyond

Alt #2 1 A9.1

Existing door to remain

New windows - TYP

Note: Construct new door opening and sidelites within existing wood frame. Install 1" insulated safety glazing sidelite panel w/3" midrail, 8" bottom rail. Paint all surfaces

Plaque to remain

Oil fill piping to remain See Mech drwgs

Mech louver - See mech

Alt # 2. Provide new exterior brick chimney

New P.T. wood deck, steps and railing to match and replace existing

3 A2.1 EAST ELEVATION

Scale: 1/8"=1'-0"

0 2' 8' 16' 24'

SCALE: 1/8" = 1'-0"

7011ELEV.MC6

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

ELEVATIONS

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 Aug 1997
REVISIONS:

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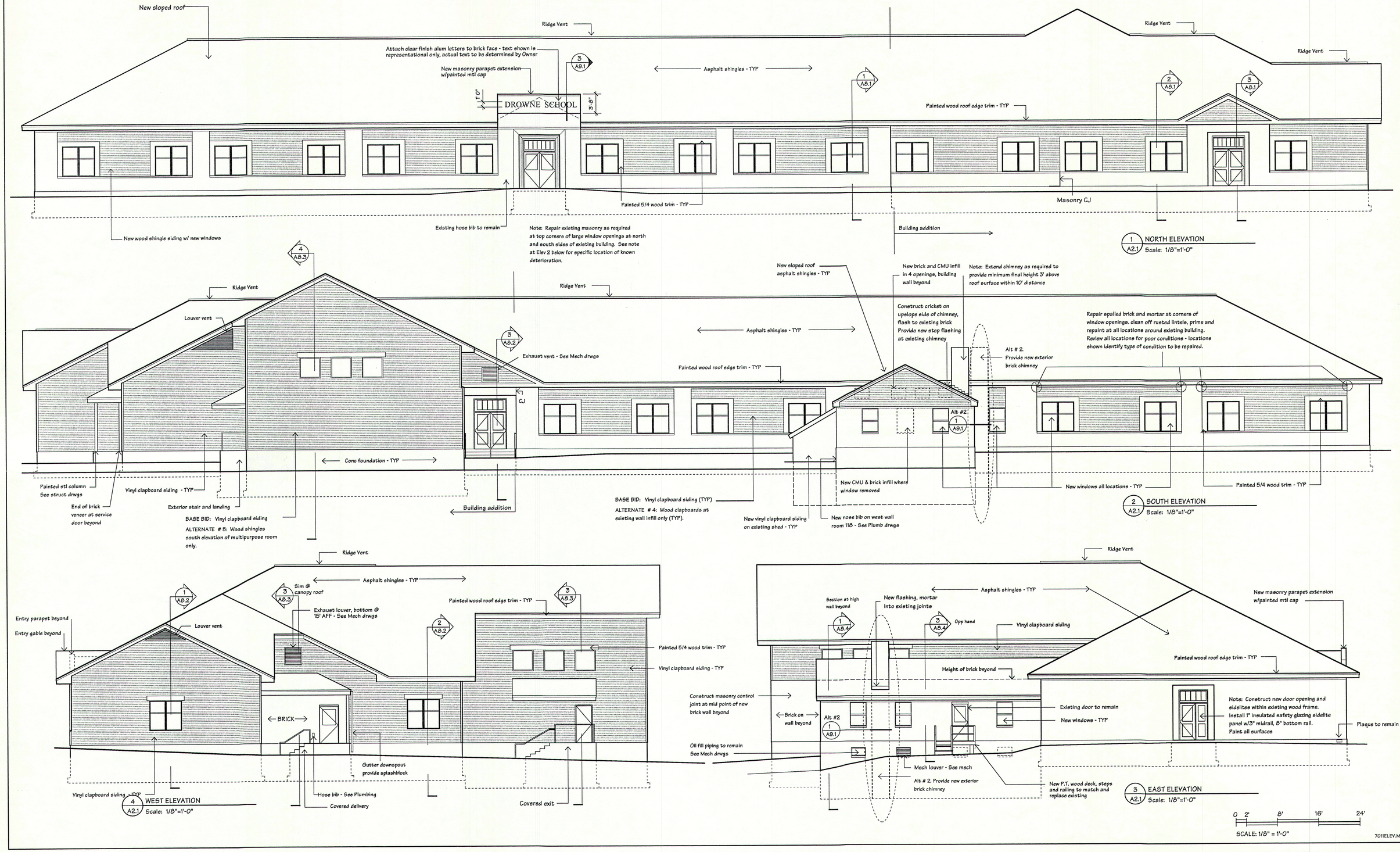
A2.1



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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

ELEVATIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
REVISIONS:

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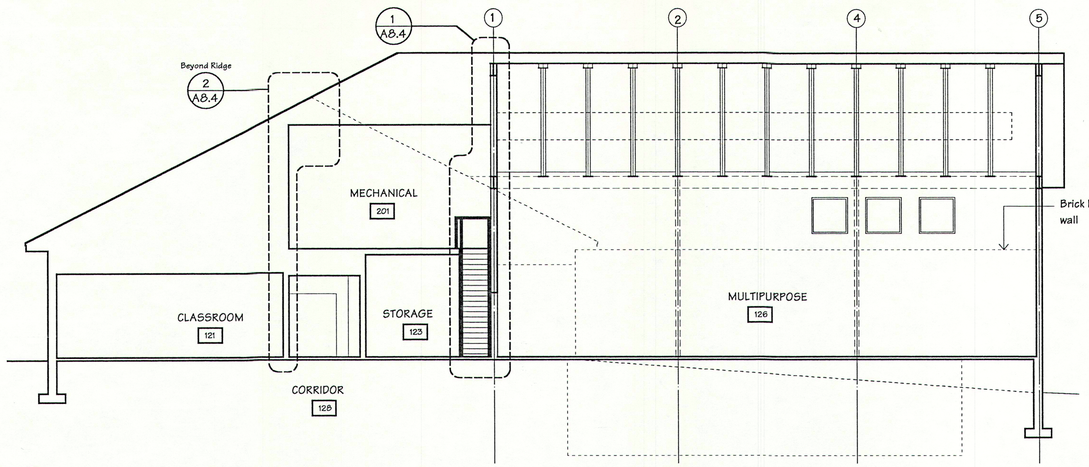
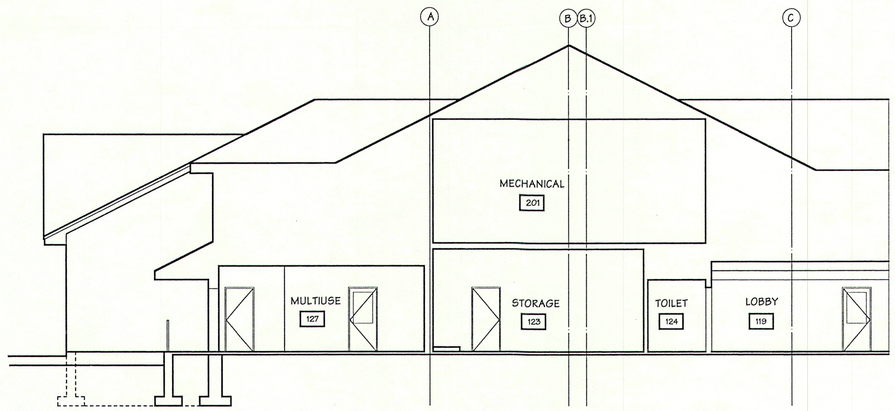
A2.1



1 A3.1 BUILDING SECTION
Scale: 1/8"=1'-0"



4 A3.1 BUILDING SECTION
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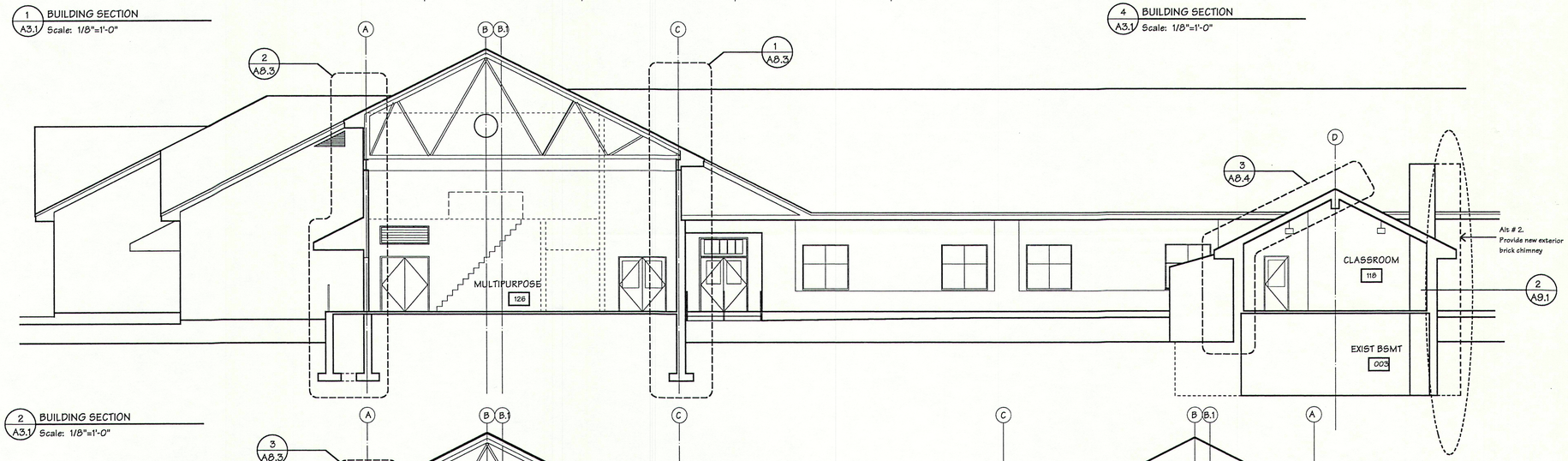

2 A3.1 BUILDING SECTION
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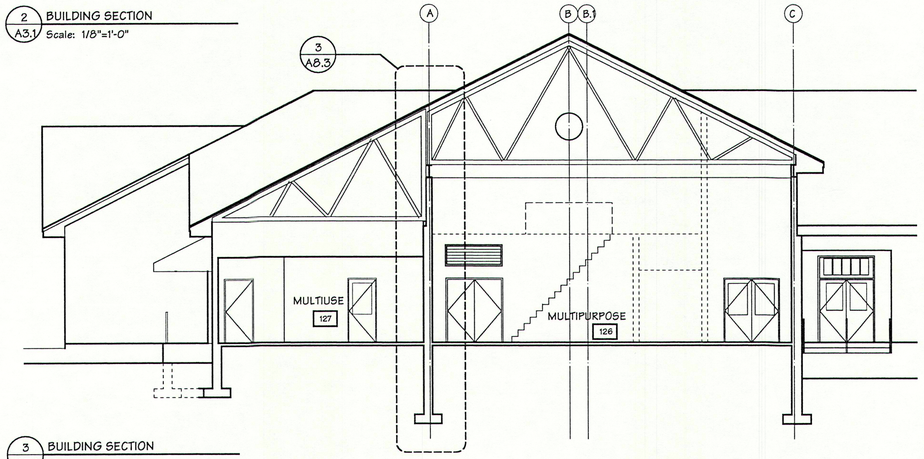

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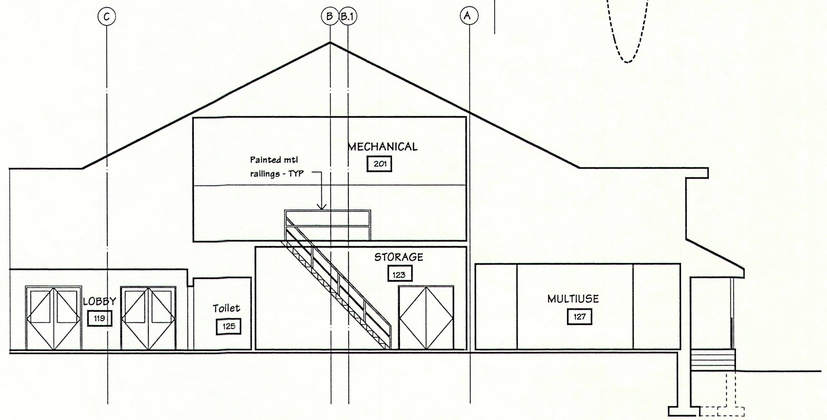

5 A3.1 BUILDING SECTION
Scale: 1/8"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

BUILDING SECTIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
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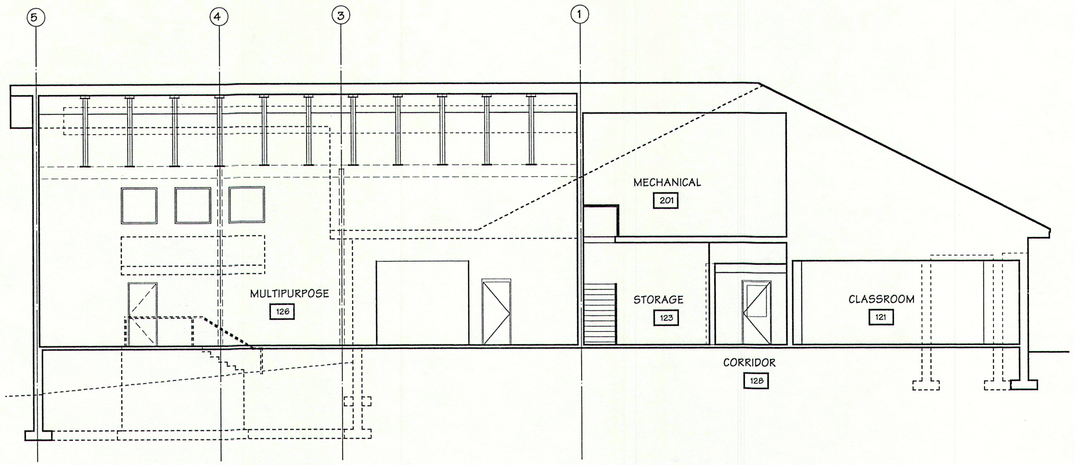
A3.1



1 A3.2 BUILDING SECTION
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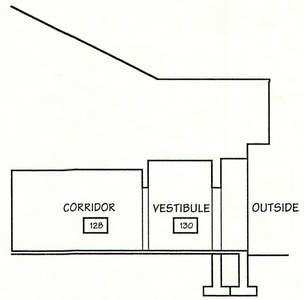

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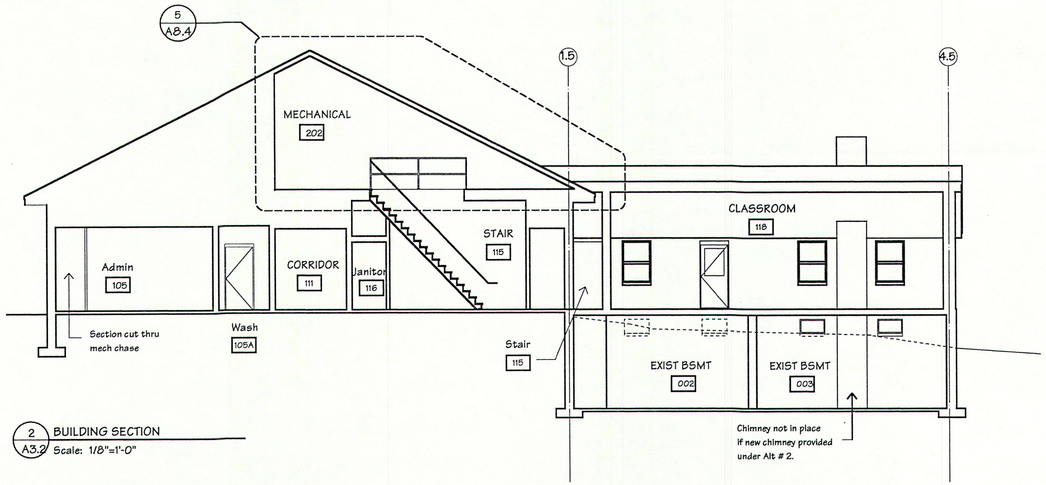

2 A3.2 BUILDING SECTION
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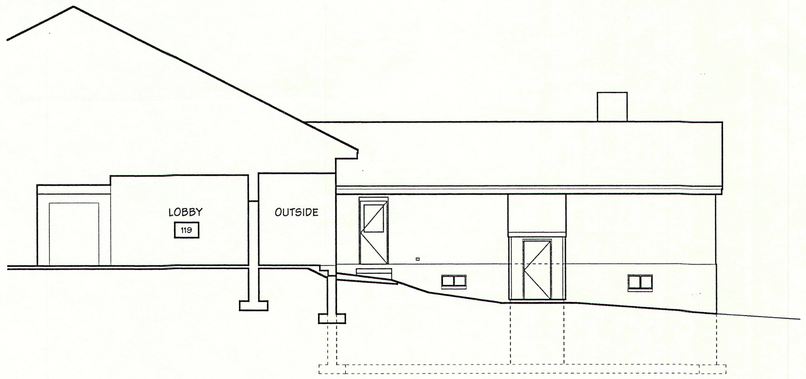

4 A3.2 BUILDING SECTION
Scale: 1/8"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

BUILDING SECTIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
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DRAWING NO.
A3.2

KITCHEN EQUIPMENT SCHEDULE

Item #	Quantity	Description	Manuf.	Model	Remarks	Mechanical Connections												
						Plumbing				Gas		Electrical						
						H.W.	C.W.	W.	I.W.	Pipe	BTU/Hr	Volts	Phase	KW	H.P.	Rated Amps	P.I.	HD
1	1	Freezer			By Owner													
2	1	Clean dish cart			By Owner													
3	1	Pot sink			See Plumb. Spec													
4	1	Soiled dish cart			By Owner													
5	1	Convection oven			By Owner													
6	1	Refrigerator			By Owner													
7	1	Prep table			By Owner													
8	1	Hot serving unit			By Owner													
9	1	Cold serving unit			By Owner													
10	1	Mobile cashier station			By Owner													
11	1	Beverage cooler			By Owner													
12	1	Hand sink			See Plumb. Spec													
13	1	Booster heater			See Plumb. Spec													
14	1	Heater/Proofer			By Owner													

Notes:

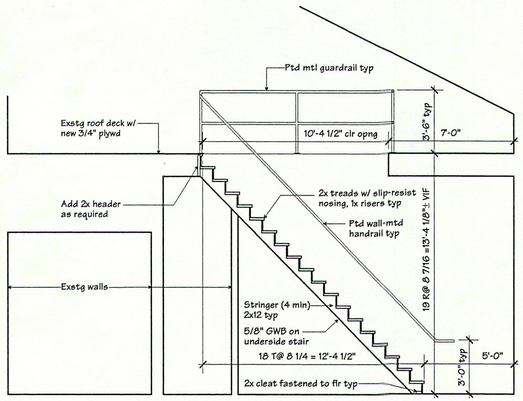
1.

BATH ACCESSORIES LEGEND

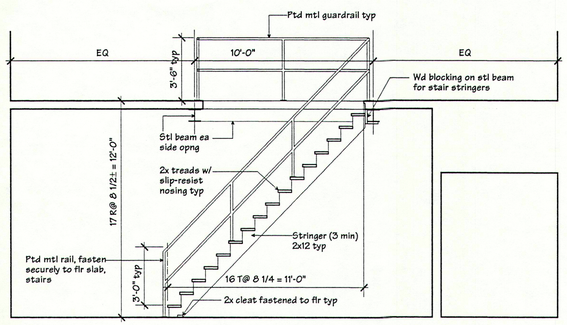
- A Paper Towel Dispenser - by Owner
- B Toilet Paper Dispenser - by Owner
- C Soap Dispenser - by Owner
- D Feminine Napkin/Tampon Vendor - by Owner
- E Feminine Napkin Disposal - by Owner
- F Grab Bar - by Contractor
- G Mirror - by Contractor
- H Paper Towel Dispenser - by Owner
- J Robe Hooks - not used
- K Shower Rod, Hooks & Nylon Shower Curtain - not used
- L Cubical Track, Carriers, Hooks & Nylon Curtain - not used

GENERAL NOTES

1. Locate all wall-mounted room accessories @ 4'-0" AFF max. to highest dispenser mechanism or control unless noted otherwise.
2. All toilet, urinal and shower partitions are dimensioned to the center line of each partition baeed upon a 1" thick panel.
3. All dimensions related to plumbing fixtures shall be from the center line of fixture to face of finish unless noted otherwise.
4. At all sink locations, all water supply and drain pipes shall be insulated for protection from contact.
5. Provide and install adequate wall blocking for mounting of all accessories at required heights shown.
6. Accessories noted in Legend as supplied by Owner shall be installed by Contractor typ.

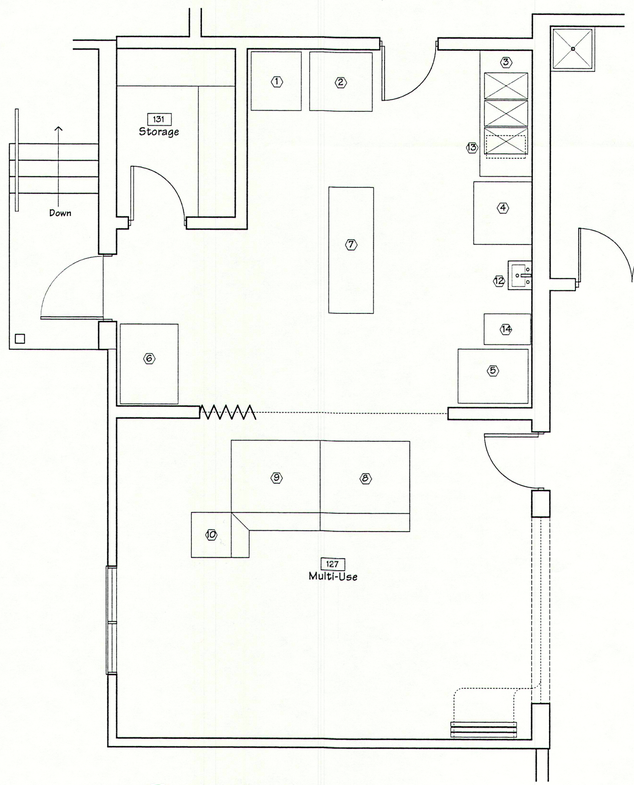


10 A4.1 SECTION THRU STAIR
Scale: 1/4" = 1'-0"

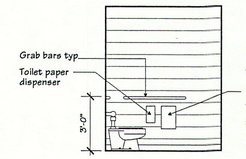


9 A4.1 SECTION THRU STAIR
Scale: 1/4" = 1'-0"

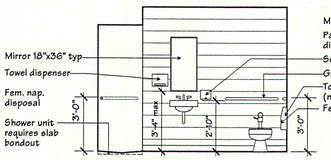
Note: Food Service equipment shown on plan will be provided by Owner except as noted in Schedule this drawing. The Contractor shall be responsible for providing and installing all electrical outlets. Owner shall be responsible for final hookup.



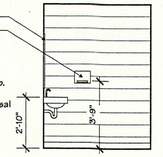
8 A4.1 MULTI-USE ROOM - EQUIPMENT PLAN
Scale: 1/4" = 1'-0"



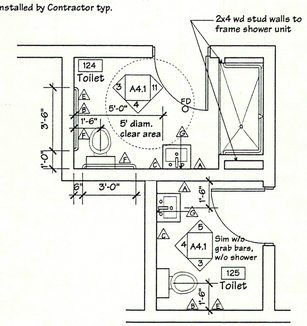
3 A4.1 TOILET ROOM 124
Scale: 1/4" = 1'-0"
Toilet 125 similar, opp. hand



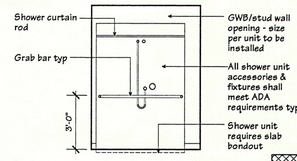
4 A4.1 TOILET ROOM 124
Scale: 1/4" = 1'-0"
Toilet 125 similar



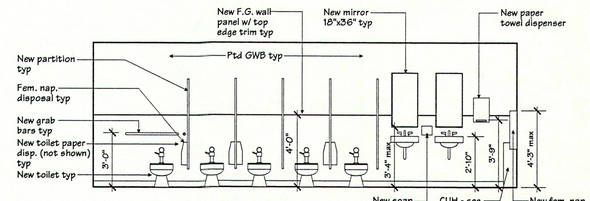
5 A4.1 TOILET ROOM 125
Scale: 1/4" = 1'-0"



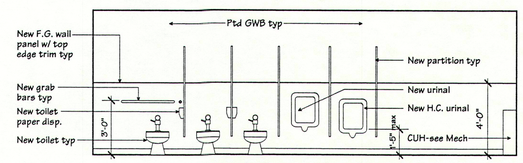
2 A4.1 TOILET ROOMS 124, 125
Scale: 1/4" = 1'-0"



11 A4.1 TOILET ROOM 124
Scale: 1/4" = 1'-0"

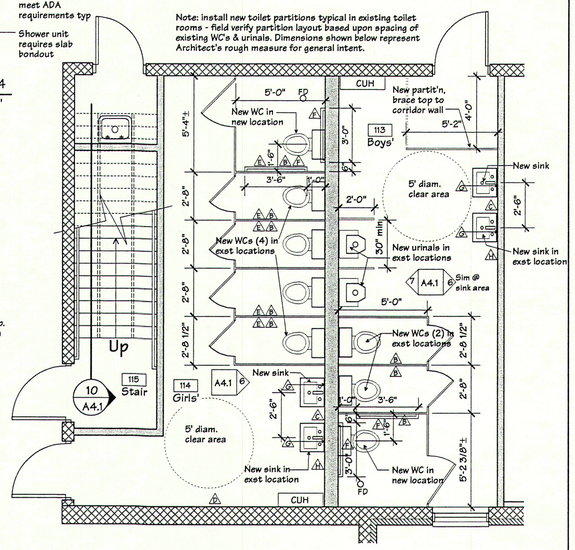


6 A4.1 TOILET ROOM 114
Scale: 1/4" = 1'-0"



7 A4.1 TOILET ROOM 113
Scale: 1/4" = 1'-0"

Note: install new toilet partitions typical in existing toilet rooms - field verify partition layout based upon spacing of existing WC's & urinals. Dimensions shown below represent Architect's rough measure for general intent.



1 A4.1 EXISTING TOILET ROOMS
Scale: 1/4" = 1'-0"

0 1' 4' 8' 16'
SCALE: 1/4" = 1'-0"
7011LRGPLANS.MC7

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

LARGE PLANS DETAILS

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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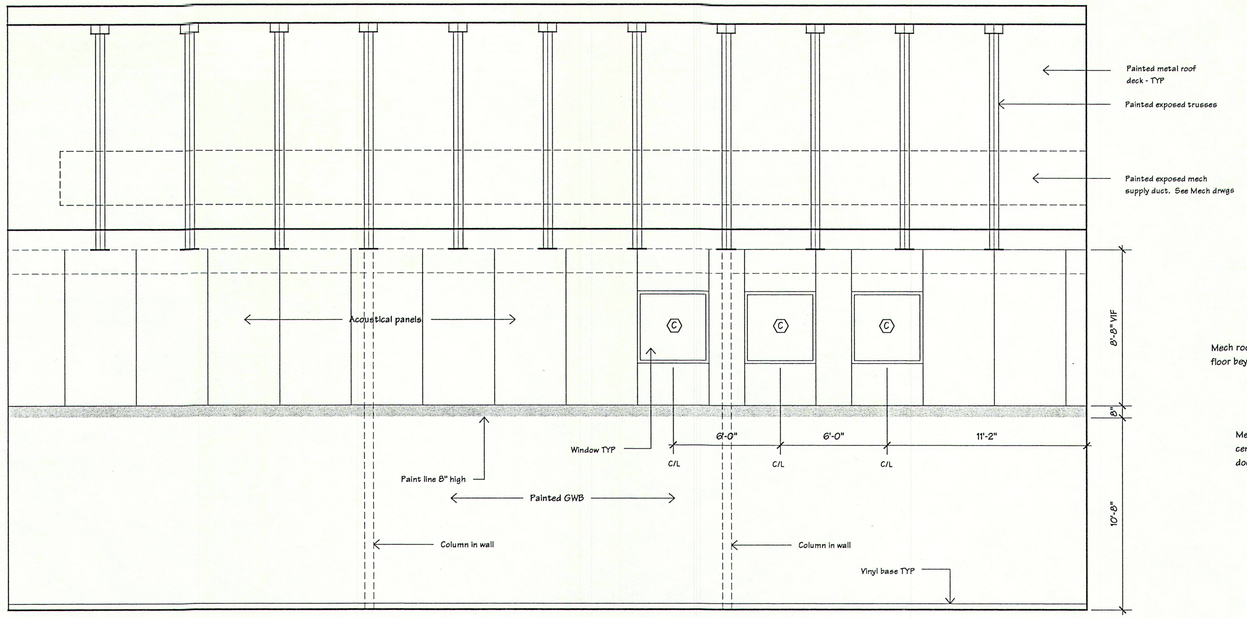
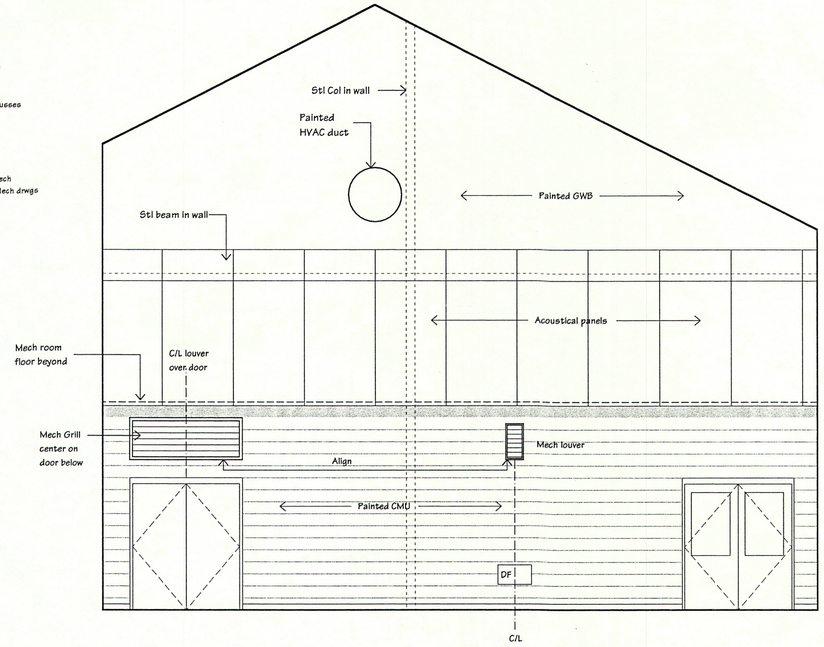
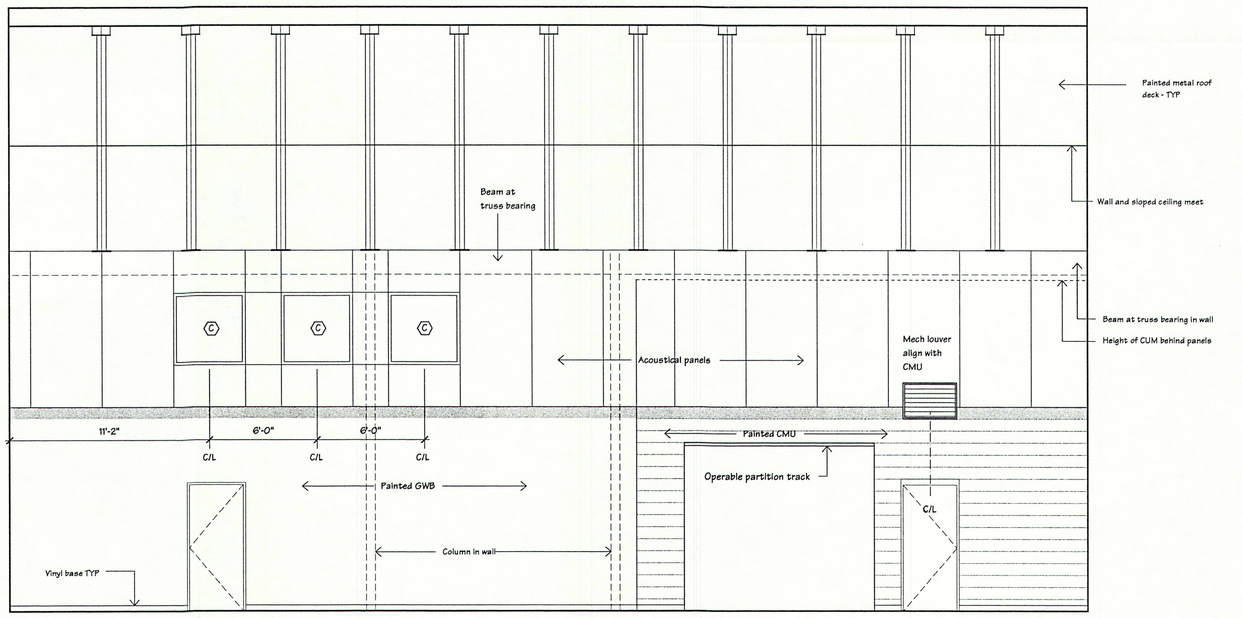
A4.1



1 A5.1 INTERIOR ELEVATION MULTIPURPOSE 126
Scale: 1/4"=1'-0"



3 A5.1 INTERIOR ELEVATION MULTIPURPOSE 126
Scale: 1/4"=1'-0"



2 A5.1 INTERIOR ELEVATION MULTIPURPOSE 126
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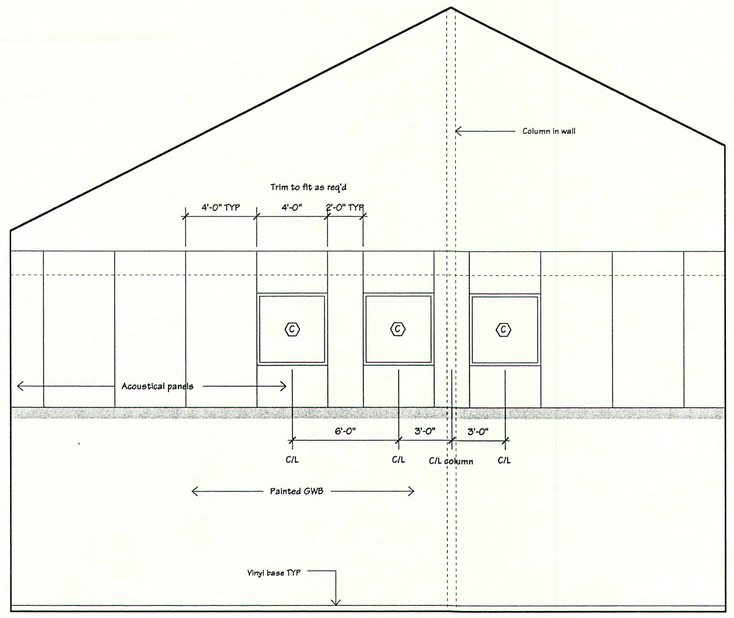

4 A5.1 INTERIOR ELEVATION MULTIPURPOSE 126
Scale: 1/4"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

7011ELEV.MC6

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ARCHITECTS

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

INTERIOR ELEVATIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
REVISIONS:

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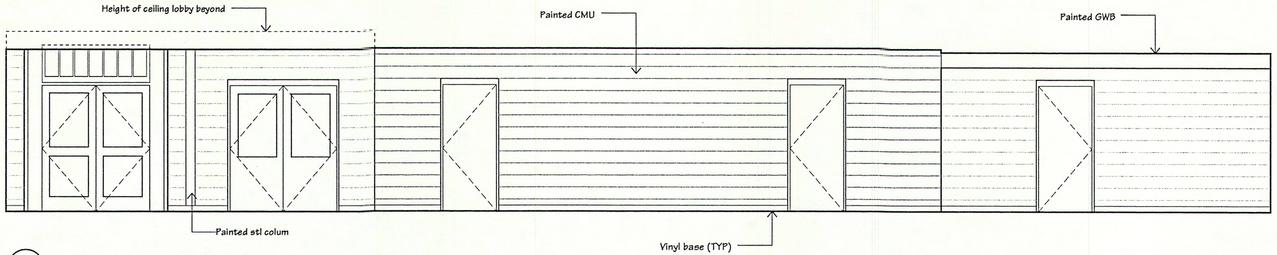
A5.1



1 A5.2 INTERIOR ELEVATION CORRIDOR 128
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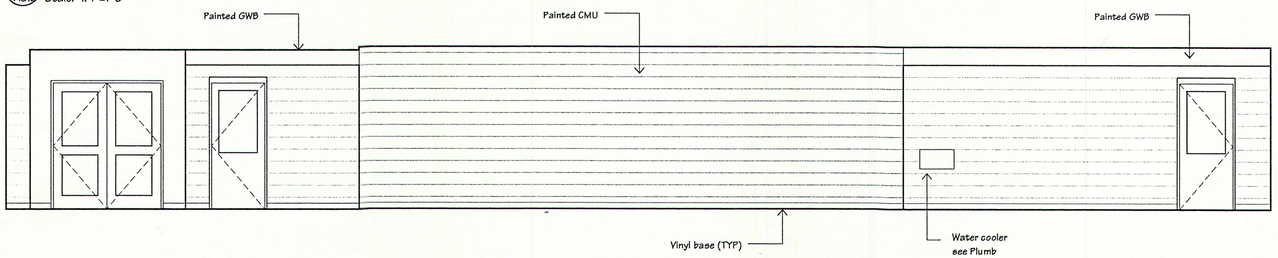

2 A5.2 INTERIOR ELEVATION CORRIDOR 128
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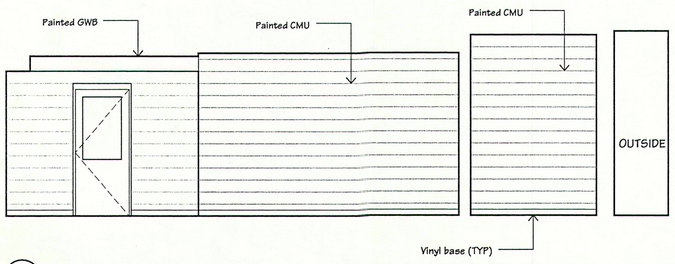
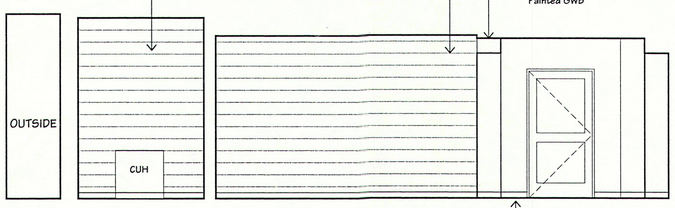
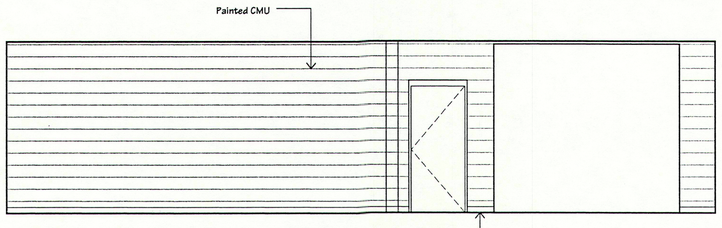


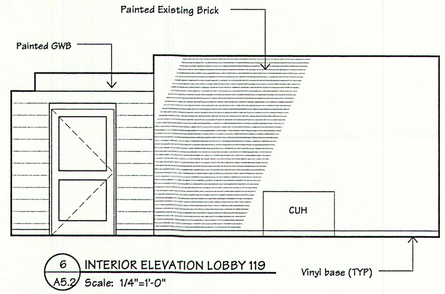
3 A5.2 INTERIOR ELEVATION CORRIDOR 128/ VESTIBULE 130
Scale: 1/4"=1'-0"



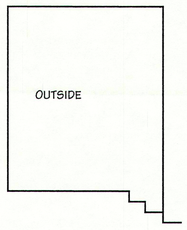
4 A5.2 INTERIOR ELEVATION VESTIBULE 130/CORRIDOR 128
Scale: 1/4"=1'-0"

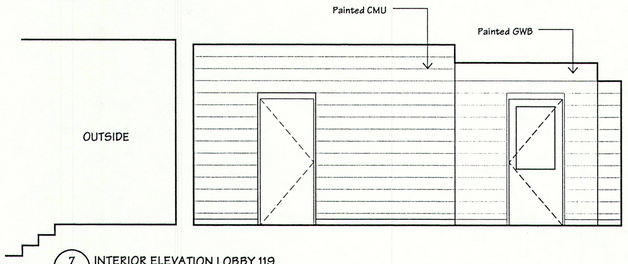


5 A5.2 INTERIOR ELEVATION MULTI-USE 127
Scale: 1/4"=1'-0"

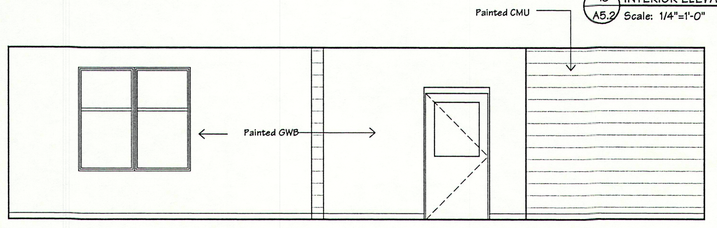


6 A5.2 INTERIOR ELEVATION LOBBY 119
Scale: 1/4"=1'-0"

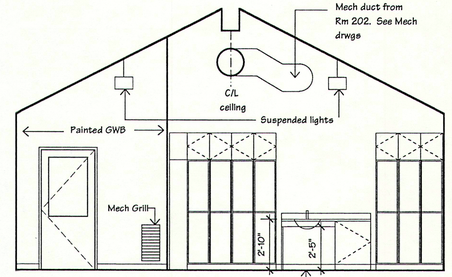




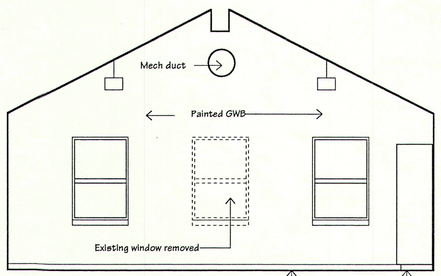
7 A5.2 INTERIOR ELEVATION LOBBY 119
Scale: 1/4"=1'-0"



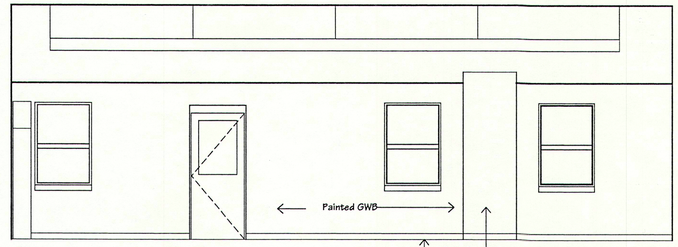
8 A5.2 INTERIOR ELEVATION MULTI-USE 127
Scale: 1/4"=1'-0"



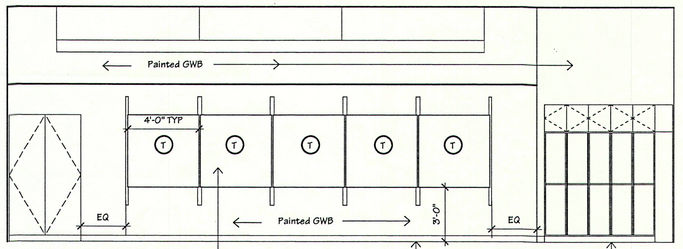
9 A5.2 INTERIOR ELEVATION CLASSROOM 118
Scale: 1/4"=1'-0"



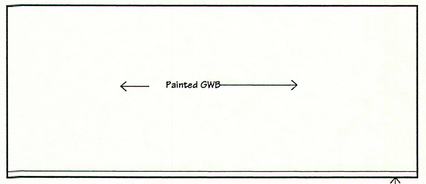
10 A5.2 INTERIOR ELEVATION CLASSROOM 118
Scale: 1/4"=1'-0"



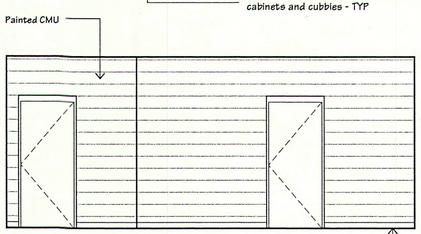
11 A5.2 INTERIOR ELEVATION CLASSROOM 118
Scale: 1/4"=1'-0"



12 A5.2 INTERIOR ELEVATION CLASSROOM 118
Scale: 1/4"=1'-0"



13 A5.2 INTERIOR ELEVATION MULTI-USE 127
Scale: 1/4"=1'-0"



14 A5.2 INTERIOR ELEVATION MULTI-USE 127
Scale: 1/4"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

INTERIOR ELEVATIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
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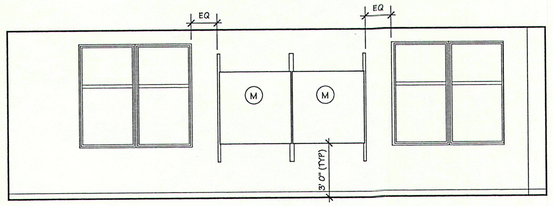
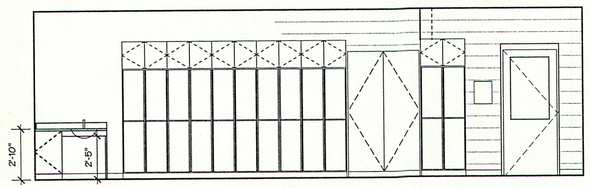
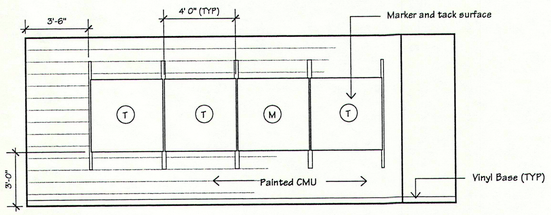


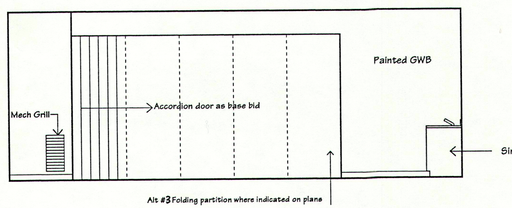
1 A5.3 INTERIOR ELEVATION CLASSROOM 121
Scale: 1/4"=1'-0"



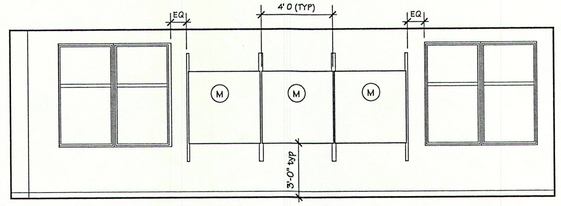
2 A5.3 INTERIOR ELEVATION CLASSROOM 121
Scale: 1/4"=1'-0"



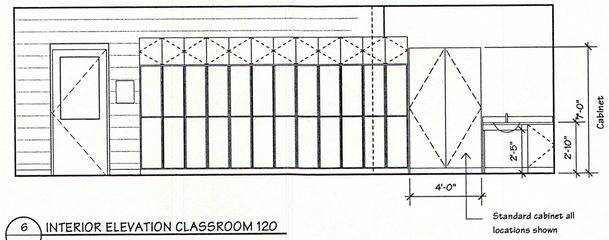
3 A5.3 INTERIOR ELEVATION CLASSROOM 121
Scale: 1/4"=1'-0"



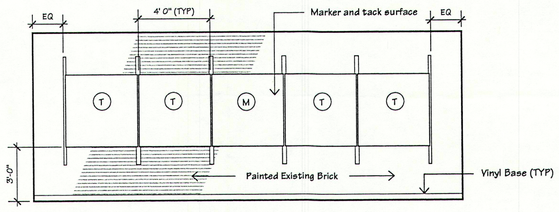
4 A5.3 INTERIOR ELEVATION CLASSROOM 121
Scale: 1/4"=1'-0"



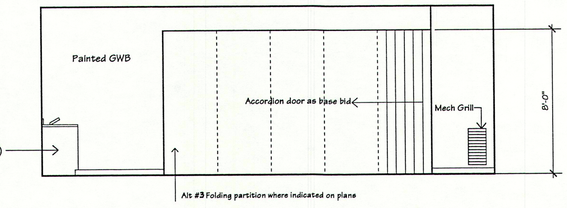
5 A5.3 INTERIOR ELEVATION CLASSROOM 120
Scale: 1/4"=1'-0"



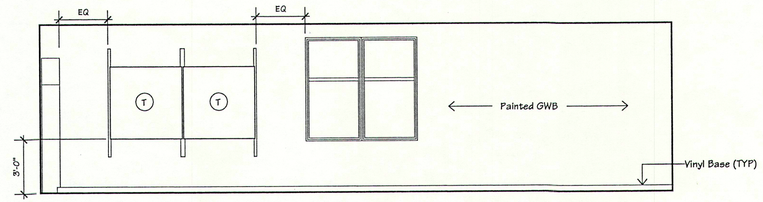
6 A5.3 INTERIOR ELEVATION CLASSROOM 120
Scale: 1/4"=1'-0"



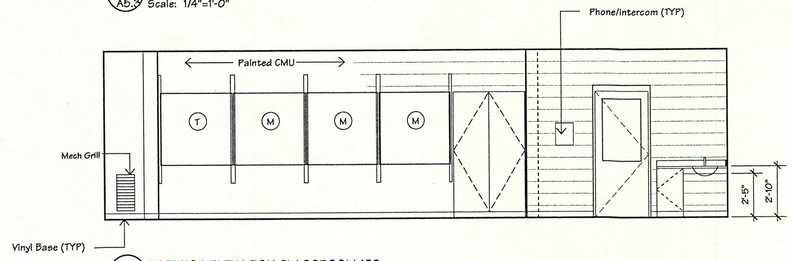
7 A5.3 INTERIOR ELEVATION CLASSROOM 120
Scale: 1/4"=1'-0"



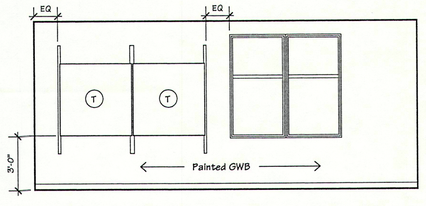
8 A5.3 INTERIOR ELEVATION CLASSROOM 120
Scale: 1/4"=1'-0"



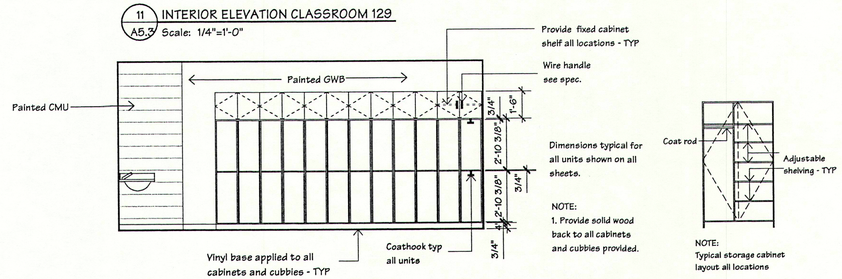
9 A5.3 INTERIOR ELEVATION CLASSROOM 129
Scale: 1/4"=1'-0"



10 A5.3 INTERIOR ELEVATION CLASSROOM 129
Scale: 1/4"=1'-0"



11 A5.3 INTERIOR ELEVATION CLASSROOM 129
Scale: 1/4"=1'-0"



12 A5.3 INTERIOR ELEVATION CLASSROOM 129
Scale: 1/4"=1'-0"

0 2' 8' 16' 24'

SCALE: 1/8" = 1'-0"

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

INTERIOR ELEVATIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
REVISIONS:

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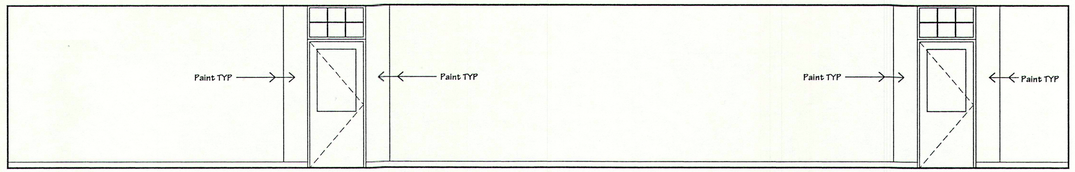
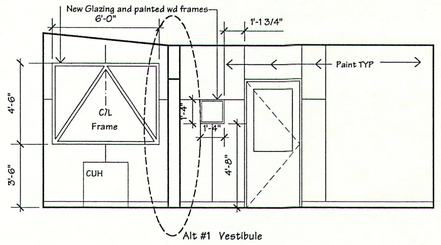
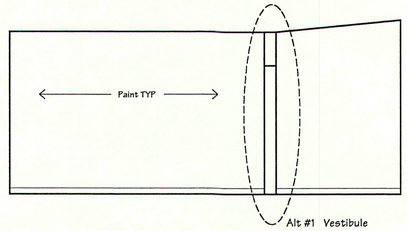


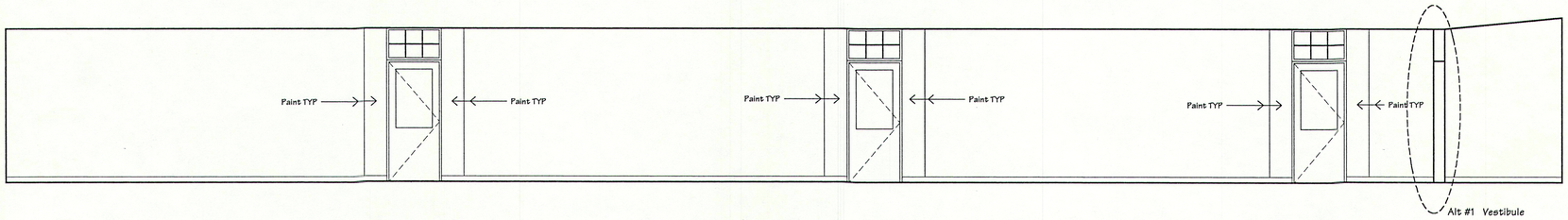
1 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"



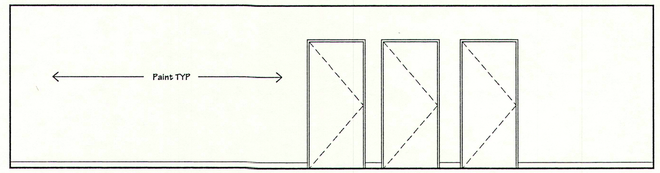
5 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"



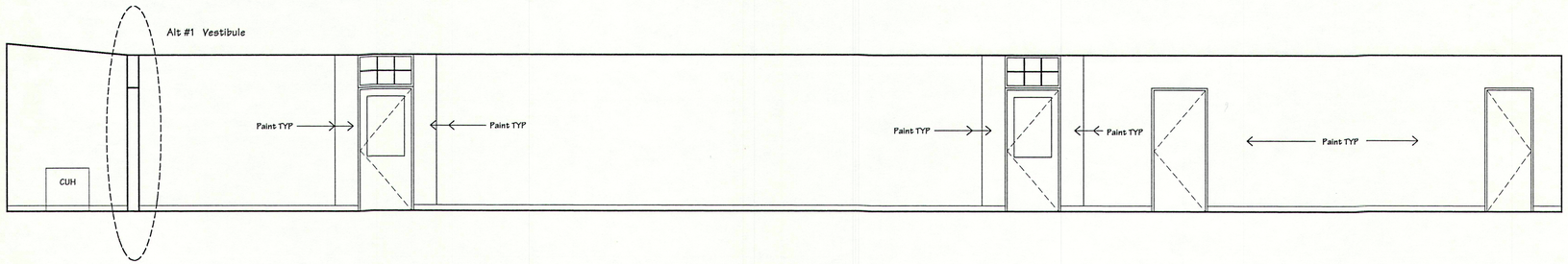
6 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"



2 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"



7 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"



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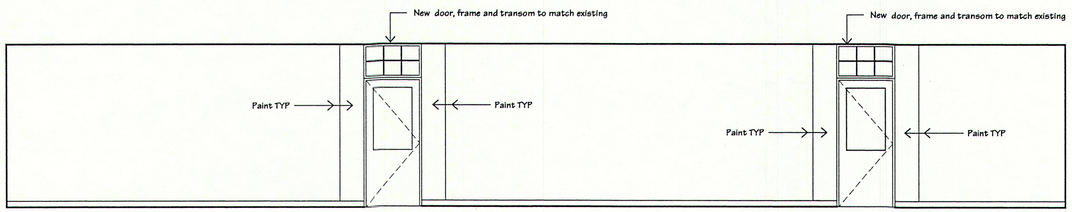
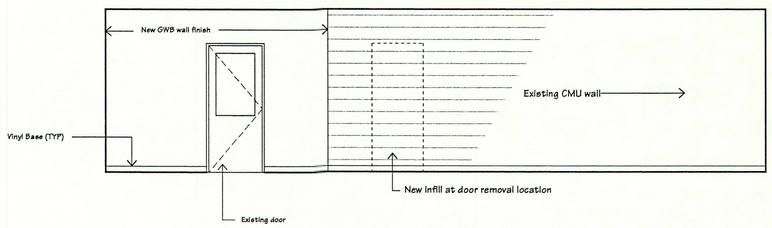
Scale: 1/4"=1'-0"



4 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"



8 / A5.4 INTERIOR ELEVATION
Scale: 1/4"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

INTERIOR ELEVATIONS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 Aug 1997
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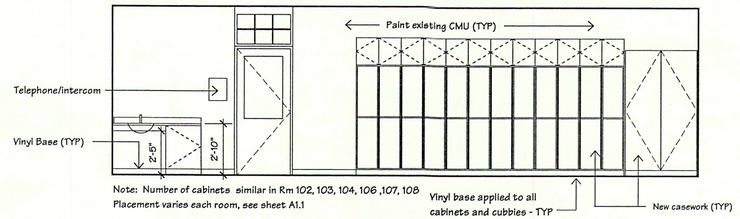
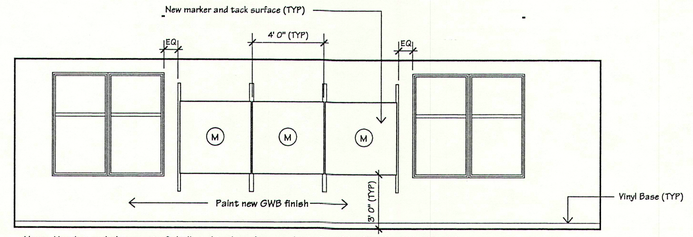
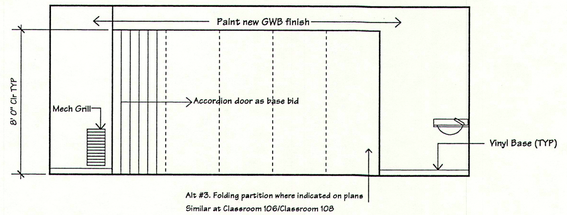


1 / A5.5 INTERIOR ELEVATION CLASSROOM 101 (TYP ALL EXISTING CLASSROOMS)
Scale: 1/4"=1'-0"

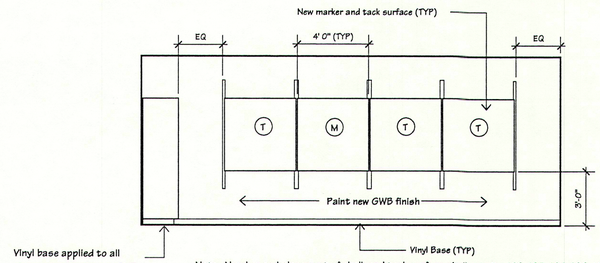


Note: Number and placement of chalk and tack surface similar in Rm 102, 103, 104, 106 ,107, 108

2 / A5.5 INTERIOR ELEVATION CLASSROOM 101 (TYP ALL EXISTING CLASSROOMS)
Scale: 1/4"=1'-0"



3 / A5.5 INTERIOR ELEVATION CLASSROOM 101 (TYP ALL EXISTING CLASSROOMS)
Scale: 1/4"=1'-0"



Note: Number and placement of chalk and tack surface similar in Rm 102, 103, 104, 106 ,107, 108
Note: Provide this layout east wall 109, west wall 108 all tack panels

4 / A5.5 INTERIOR ELEVATION CLASSROOM 101 (TYP ALL EXISTING CLASSROOMS)
Scale: 1/4"=1'-0"

0 2' 8' 16' 24'
SCALE: 1/8" = 1'-0"

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DROWNE ROAD SCHOOL

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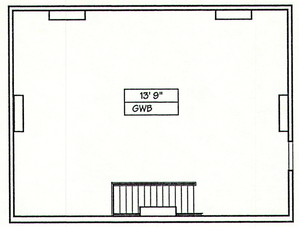
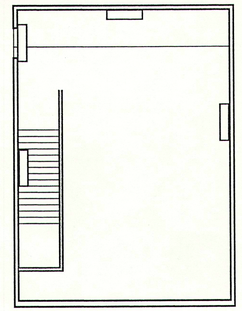
Note:
See elec drwgs for continuation
of lights into roof trues areas



3 A6.1 MECHANICAL ROOM 201 REFLECTED CEILING
Scale: 1/8"=1'-0"

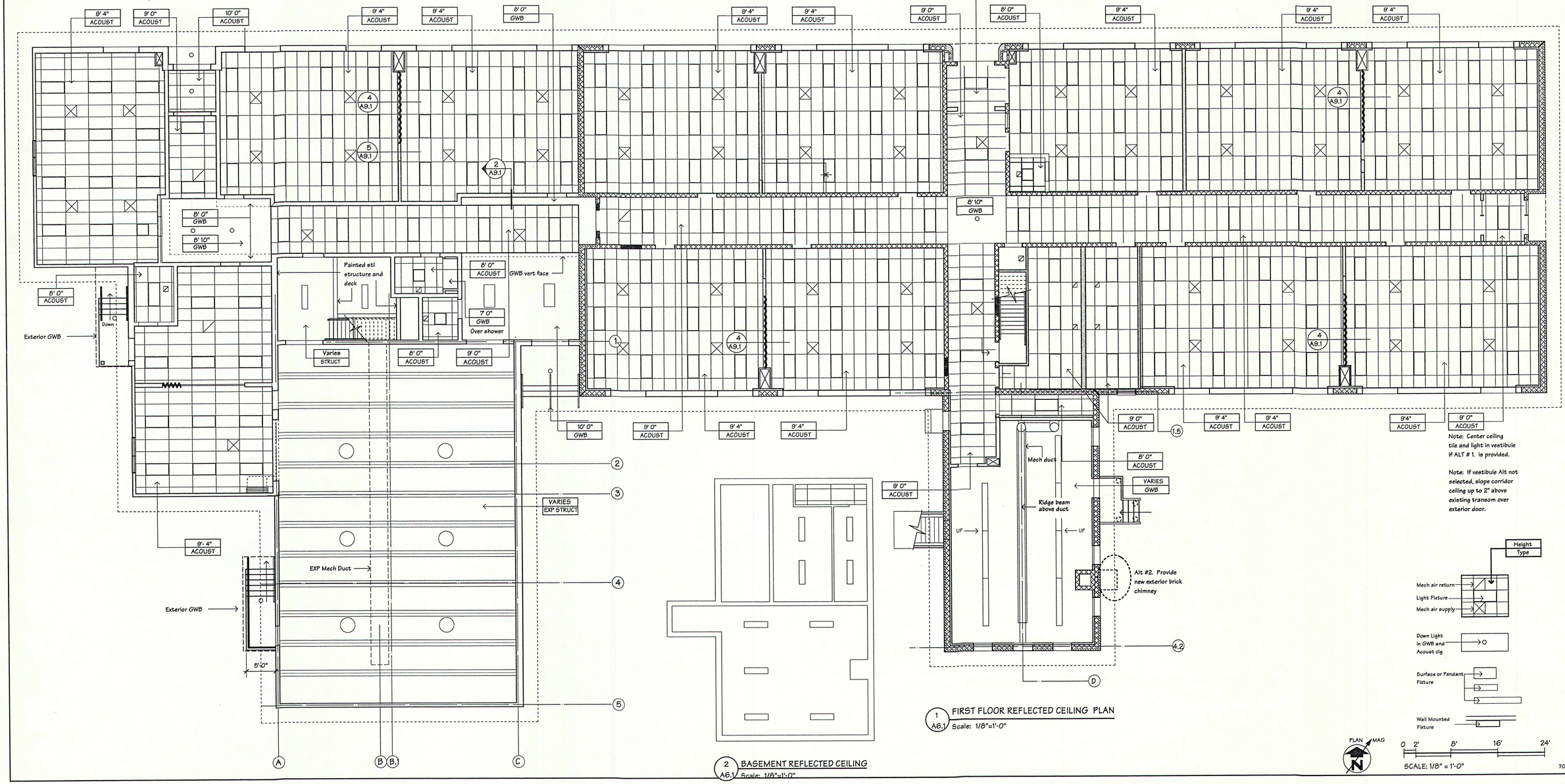
Note: If vestibule Alt not selected, slope corridor ceiling up to 2" above existing transom over exterior door.

Note: Center ceiling tile and light in vestibule if ALT # 1. is provided.



Note:
See elec drwgs for continuation
of lights into roof trues areas

4 A6.1 MECHANICAL ROOM 202 REFLECTED CEILING
Scale: 1/8"=1'-0"



2 A6.1 BASEMENT REFLECTED CEILING
Scale: 1/8"=1'-0"

1 A6.1 FIRST FLOOR REFLECTED CEILING PLAN
Scale: 1/8"=1'-0"

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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

REFLECTED CEILING PLAN

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 AUG 1997
REVISIONS:

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Window Schedule

Window Tag	Tag #	Opening Size W x H	Operation	Glazing	Comments
		~~3'-0" x 3'-0"~~	~~Fixed~~	~~1" insul~~	
		~~3'-0" x 5'-0"~~	~~Fixed~~	~~1" insul~~	
A	01	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	02	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	03	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	04	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	05	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	06	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	07	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	08	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	09	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	10	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	11	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	12	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	13	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	14	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	15	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	16	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	17	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	18	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	19	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	20	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	21	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	22	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	23	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	24	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
A	25	6' - 3 7/8" x 5'-9 1/4"	DH	insul	
B	01	- x 4' - 5 1/4"	DH	insul	fit exst opng width, infill above new RO
B	02	- x 4' - 5 1/4"	DH	insul	Provide additional head trim as required to fit existing opng
B	03	- x 4' - 5 1/4"	DH	insul	Provide additional head trim as required to fit existing opng
B	04	- x 4' - 5 1/4"	DH	insul	Provide additional head trim as required to fit existing opng
B	05	- x 4' - 5 1/4"	DH	insul	Provide additional head trim as required to fit existing opng
B	06	- x 4' - 5 1/4"	DH	insul	Provide additional head trim as required to fit existing opng
C	01	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	02	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	03	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	04	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	05	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	06	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	07	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	08	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
C	09	4'-0" x 4'-0"	Fixed	insul	insul - temp safety glass inside, frosted outside
Ex	01	- x -	-	-	no work
Ex	02	- x -	-	-	no work
Ex	03	- x -	-	-	no work

NOTES:

Finish Schedule

Room#	Room Tag	N-wall	E-wall	S-wall	W-wall	Floor	Base	Ceiling	Comments
001	Hall	-	-	-	-	N	N	-	
002	Storage	-	-	-	-	N	N	-	
003	Boiler	-	-	-	-	N	N	-	
004	Vault	-	-	-	-	N	N	-	
101	Classroom	P2	P2	P2	P2/*	VCT	Vinyl	C1	*operable partition
102	Classroom	P1	P1	P2	P2/*	VCT	Vilyl	C1	*operable partition
103	Classroom	P2	P2/*	P1	P1	VCT	Vinyl	C1	*operable partition
104	Classroom	P1	P2	P2	P2	VCT	Vinyl	C1	
105	Admin	P1	P2	P2	P2	CPT	Vinyl	C1	
105A	Wash	P2	P2	PEX	PEX	VCT	Vinyl	C1	
106	Classroom	P2	P2	P1	P2/*	VCT	Vinyl	C1	*operable partition
107	Classroom	P1	P2	P2	P2/*	CPT	Vinyl	C1	*operable partition
108	Classroom	P2	P2/*	P1	P1	VCT	Vinyl	C1	*operable partition
109	Classroom	P1	P2/*	P2	P2	VCT	Vinyl	C1	*operable partition
110	Corridor	P2	P2/G	-	P2	VCT	PEX	C1	
111	Corridor	P2	-	P2	-	VCT	PEX	C1/C2	
112	Corridor	-	P2	P1	P1/P2	VCT	PEX	C1	
113	Boys'	FP/P1	FP/P1	FP/P1	FP/P1	VCT	Vinyl	C1	fiberglass panels to 4' AFF
114	Girls'	FP/P1	FP/P1	FP/P1	FP/P1	VCT	Vinyl	C1	fiberglass panels to 4' AFF
115	Stair	-	-	-	-	WD1/VCT	-	-	abrasive strip on tread nosings
116	Jan	PEX	P1	P1	PEX	VCT	Vinyl	PEX	
117	Stair	-	-	-	-	PEX	-	C1	abrasive strip on tread nosings
118	Classroom	P1	P1	P1	P1	VCT	Vinyl	C2	
119	Lobby	P2	P2	P2	P2	VCT	Vinyl	C1	Floor pattern - multiple colors
120	Classroom	P1	P2	P2	P2*	VCT	Vinyl	C1	Operable partition
121	Classroom	P1	P2*	P2	P2	VCT	Vinyl	C1	Operable partition
122	Corridor	P2	-	P2	P2	VCT	Vinyl	C1/C2	
123	Storage	P2	P2	P2	P2	PC	Vinyl	PEXP	
124	Toilet	P2	P2	P2	P2	VCT	Vinyl	C1	
125	Toilet	P2	P2	P2	P2	VCT	Vinyl	C1	
126	Multi-Purpose	P2/AWP	*	*	*	SV	Vinyl	PEXP	* P1/P2/AWP/FR
127	Multi-Use	P2	P2	P1	P1	VCT	Vinyl	C1	
128	Corridor	P2	P2	P2	P2	VCT	Vinyl	C1	Floor pattern - multiple colors
129	Classroom	P1	P1/P2	P1	P1	VCT	Vinyl	C1	
130	Vestibule	P1	P2	P2	P2	VCT	Vinyl	C1	
131	Storage	P2	P2	P2	P1	VCT	Vinyl	C1	
201	Mechanical	-	-	P2*	-	PC	-	-	*Paint CMU, remainder unpainted area
202	Mechanical	-	-	-	-	PC	-	-	Unpainted area

KEY TO FINISHES

WALLS

P1	Ptd gypsum wall board
P2	Ptd masonry (CMU, brick, etc.)
PEX	Paint exstg-include new work
-	No new finish
G	Glass or glass block
CT	Ceramic tile
AWP	Acoustical wall panel
FP	Fiberglass panels
IR	Impact resistant wall panels

CEILINGS

C1	Acoustical tile
C2	Painted GWB
C3	Washable acoustical tile
PEXP	Paint exposed surfaces
-	No new finish

FLOORS

CPT1	Carpet 1
CPT2	Carpet 2
VCT	Vinyl composition tile
SR/VCT	Slip-resistant VCT
PC	Painted concrete
N	Existing to remain
PEX	Paint over existing
R	Rubber tile
CT	Ceramic tile
WD1	Hardwood
WD2	Softwood

SV	Resilient sheet vinyl
QT	Quarry tile
TC	Tinted concrete

BASE

Vinyl	Vinyl
N	Existing to remain
CT	Ceramic tile
WD	Wood
QT	Quarry tile
PEX	Paint over existing

NOTE: PEX shall require and include patching all surfaces, repair of holes or damaged surfaces, repair of walls and ceilings where existing construction is removed, filling and properly preparing for paint finish.

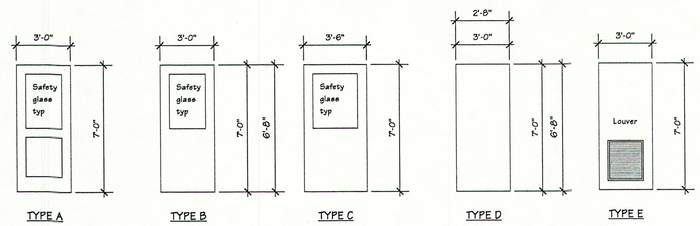
Note: See drwg A9.1 for description of flooring patterns throughout building

Door Schedule

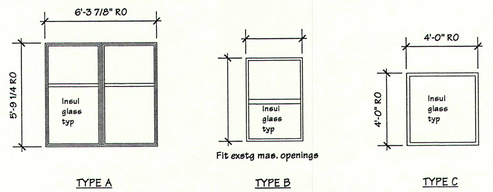
Door Number	Door Width	Door Height	Door Thick	Door Type	Door Matl	Frame Type	Frame Matl	Hdwr Set	Comments
002.1	-	-	-	-	-	-	-	#	No work
003.1	-	-	-	-	-	-	-	#	No work
003.2	-	-	-	-	-	-	-	#	No work
004.1	-	-	-	-	-	-	-	#	No work
101.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
102.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
103.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
104.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
105.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
105.2	-	-	-	B	WD	-	-	#9	New door in existing frame. Match existing door size
105A.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#6	
106.1	3'-0"	6'-8"	1 3/4"	B	WD	-	WD	#9	Provide new frame and transom to match existing
107.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
108.1	3'-0"	6'-8"	1 3/4"	B	WD	-	WD	#9	Provide new frame and transom to match existing
109.1	-	-	-	-	-	-	-	#9	Replace existing glazing with safety glass
110.1	6'-0"	7'-0"	1 3/4"	-	-	-	-	#3	Pair, reuse existing
110.2	6'-0"	7'-0"	1 3/4"	A	WD	D	WD	#4	Atl #1. Pair, match size of door #110.1.
111.1	3'-0"	7'-0"	1 3/4"	A	HM	B	Wood	#2	Install door & sidelite within existing frame
111.2	3'-0"	7'-0"	1 3/4"	A	HM	B	Wood	#4	Alt #1. Match size and appearance of door 111.1
111.3	3'-6"	7'-0"	1 3/4"	A	WD	A	HM	#10	
112.1	-	-	-	-	-	-	-	#2	
113.1	3'-0"	6'-8"	1 3/4"	E	WD	-	-	#5	New door in existing frame, louver 24"X24"
114.1	3'-0"	6'-8"	1 3/4"	E	WD	-	-	#5	New door in existing frame, louver 24"X24"
115.1	3'-0"	6'-8"	1 3/4"	D	WD	A	HM	#8	
116.1	2'-8"	6'-8"	1 3/4"	D	WD	-	-	#7	New door in existing frame, undercut 1"
117.1	-	-	-	-	-	-	-	#8	
118.1	3'-0"	6'-8"	1 3/4"	B	WD	A	HM	#1	
118.2	-	-	-	-	-	-	-	#2	
119.1	6'-0"	7'-0"	1 3/4"	A	HM	D	WD	#3	Pair, galv insul mtl doors, provide transom panel to match ext
120.1	3'-0"	7'-0"	1 3/4"	B	WD	A	HM	#1	
121.1	3'-0"	7'-0"	1 3/4"	B	WD	A	HM	#1	
123.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#7	
123.2	6'-0"	7'-0"	1 3/4"	D	WD	C	HM	#11	Pair
124.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#6	
125.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#6	
126.1	6' 0"	7' 0"	1 3/4"	B	WD	C	HM	#12	Pair
126.2	4'-0"	7'-0"	1 3/4"	D	HM	A	HM	#2	Galv, insulated mtl door
127.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#1	
127.2	3'-6"	7'-0"	1 3/4"	B	HM	A	HM	#2	Galv, insulated mtl door. 1" insul glazing
127.3	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#1	
129.1	3'-0"	7'-0"	1 3/4"	B	WD	A	HM	#1	
130.1	6'-0"	7'-0"	1 3/4"	A	HM	D	WD	#3	Pair, galv insul mtl doors, provide transom panel to match ext
130.2	6'-0"	7'-0"	1 3/4"	A	WD	C	HM	#4	Pair
131.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#7	24"x24" louver high on door
201.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#1	Provide weatherstrip all around
202.1	3'-0"	7'-0"	1 3/4"	D	WD	A	HM	#1	Provide weather strip all around

NOTES:

1. The hardware sets listed above indicate the items of hardware required for each opening. It is the Contractor's responsibility to accurately furnish the proper quantities, items, sizes, weights and functions as required by the plans and specification. If an opening has been omitted from the above hardware set number listings, it shall be the Contractor's responsibility to supply hardware of like function or equivalent quality and quantity as that which is specified for a comparable opening, leaving no opening unaccounted for.
2. All toilet room doors are to be supplied with 1" undercuts unless noted otherwise.
3. Provide door stops for all doors - typical
4. Provide door silencers for all hollow metal doors - typical.
5. Provide new hardware at all existing doors - see spec



2 A7.1 DOOR & FRAME TYPES
Scale: 1/4"=1'-0"



1 A7.1 WINDOW TYPES
Scale: 1/4"=1'-0"

PLAN NORTH MAG

0 1' 4' 8' 12'
SCALE: 1/4" = 1'-0"

7011PLANS.MC6

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

SCHEDULES

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 AUG 1997
REVISIONS:

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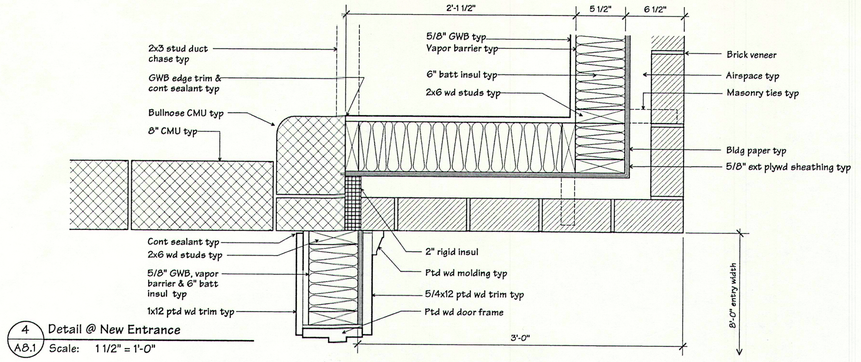
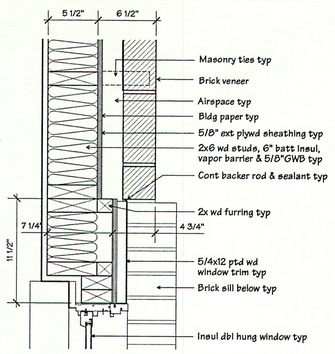
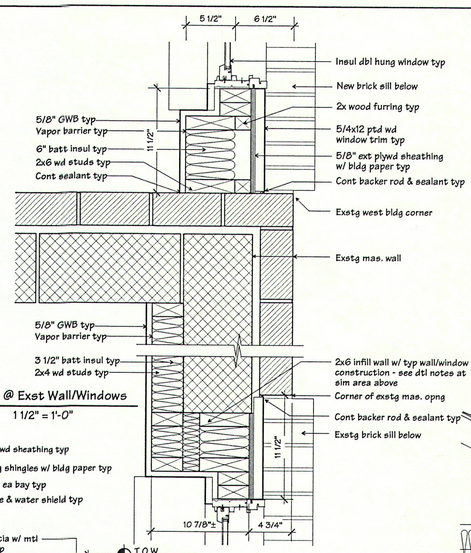
DRAWING NO.
A7.1



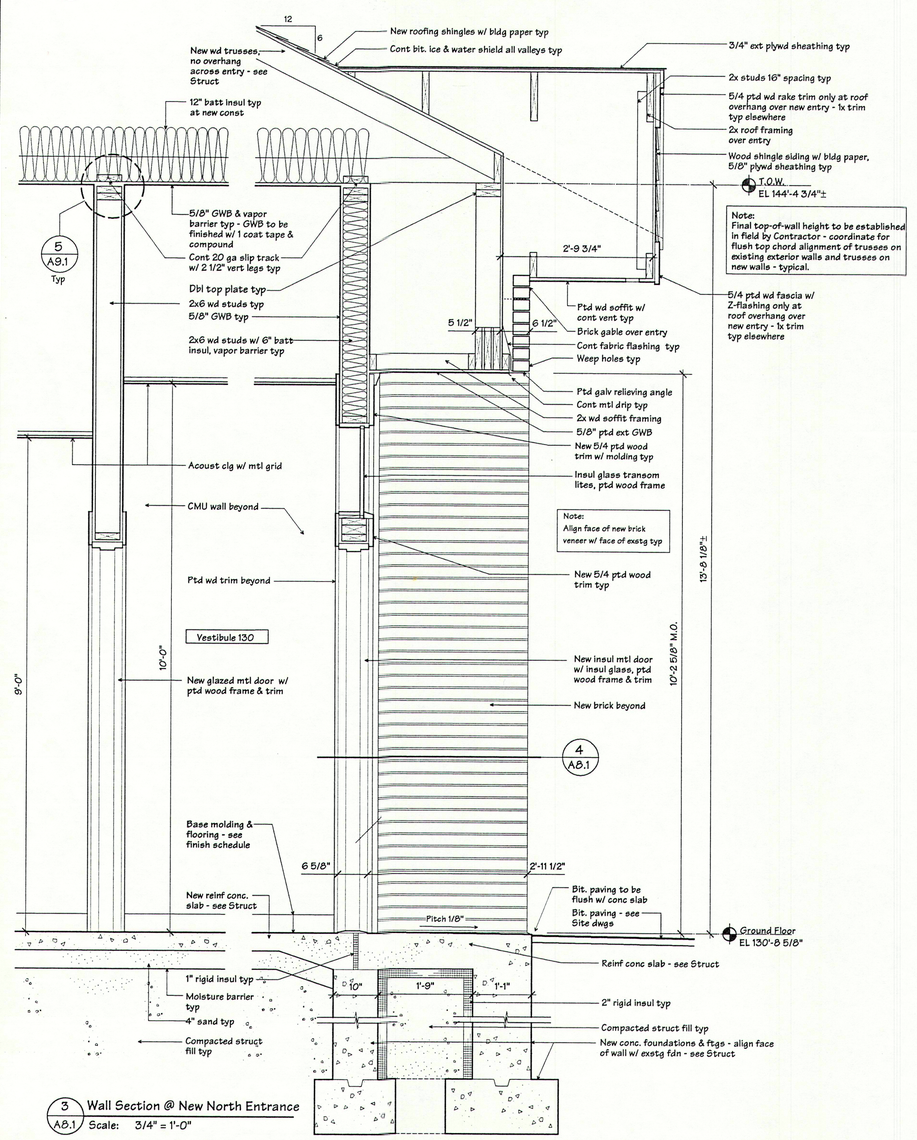
4 A8.1 Detail @ New Entrance
Scale: 1 1/2" = 1'-0"



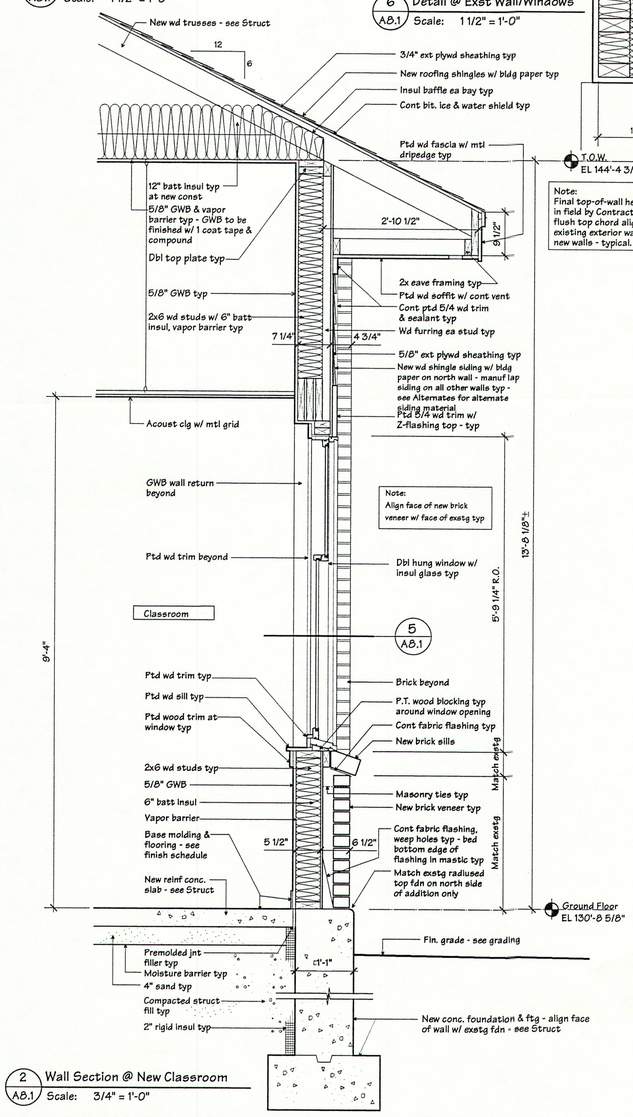
5 A8.1 Detail @ New Wall/Window
Scale: 1 1/2" = 1'-0"



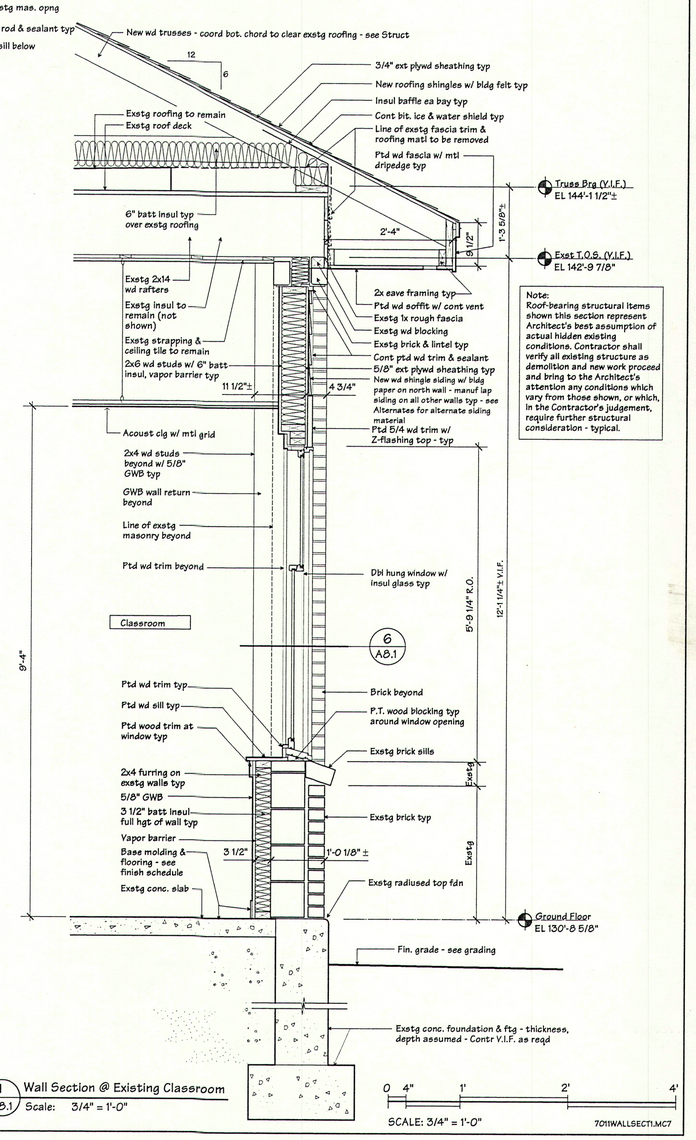
6 A8.1 Detail @ Exst Wall/Windows
Scale: 1 1/2" = 1'-0"



3 A8.1 Wall Section @ New North Entrance
Scale: 3/4" = 1'-0"



2 A8.1 Wall Section @ New Classroom
Scale: 3/4" = 1'-0"



1 A8.1 Wall Section @ Existing Classroom
Scale: 3/4" = 1'-0"

Note: Roof-bearing structural items shown this section represent Architect's best assumption of actual hidden existing conditions. Contractor shall verify all existing structure as demolition and new work proceed and bring to the Architect's attention any conditions which vary from those shown, or which, in the Contractor's judgement, require further structural consideration - typical.

0 4" 1' 2' 4'
SCALE: 3/4" = 1'-0"
7011WALLSECT1.MC7

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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

WALL SECTIONS

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

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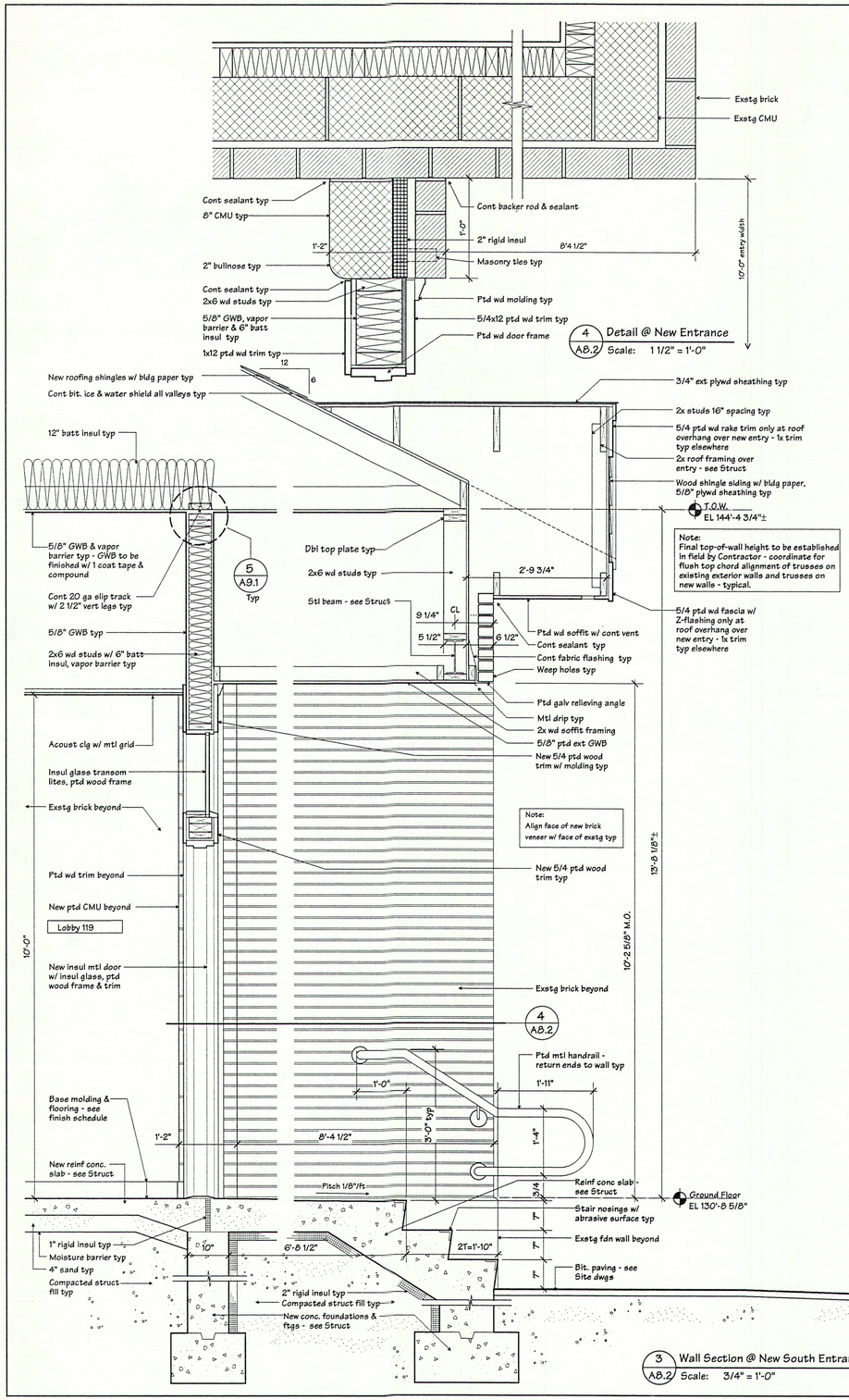
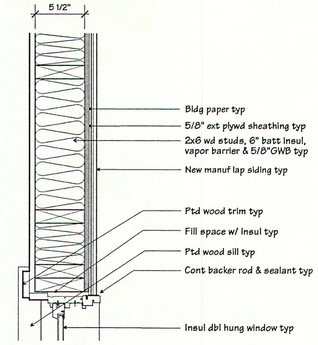
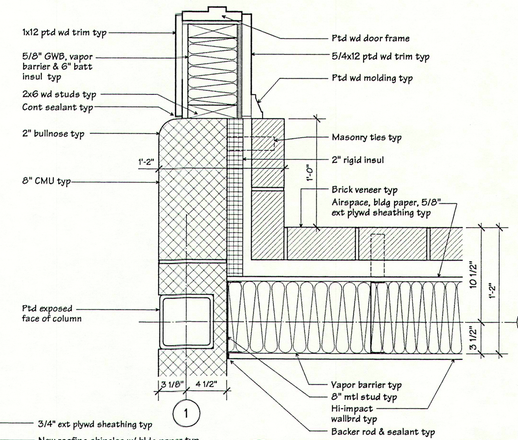
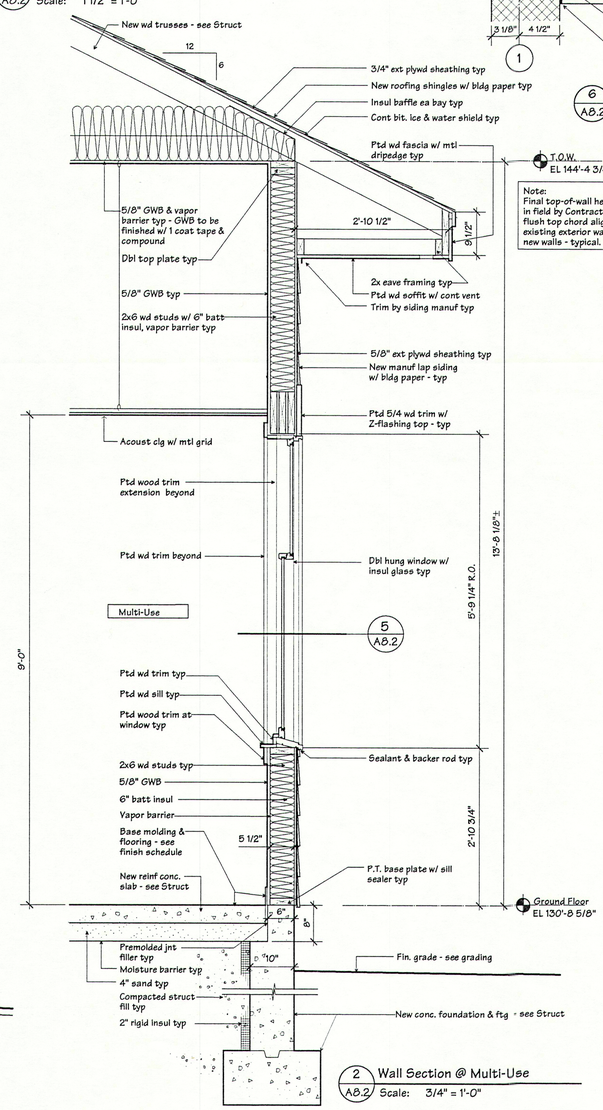
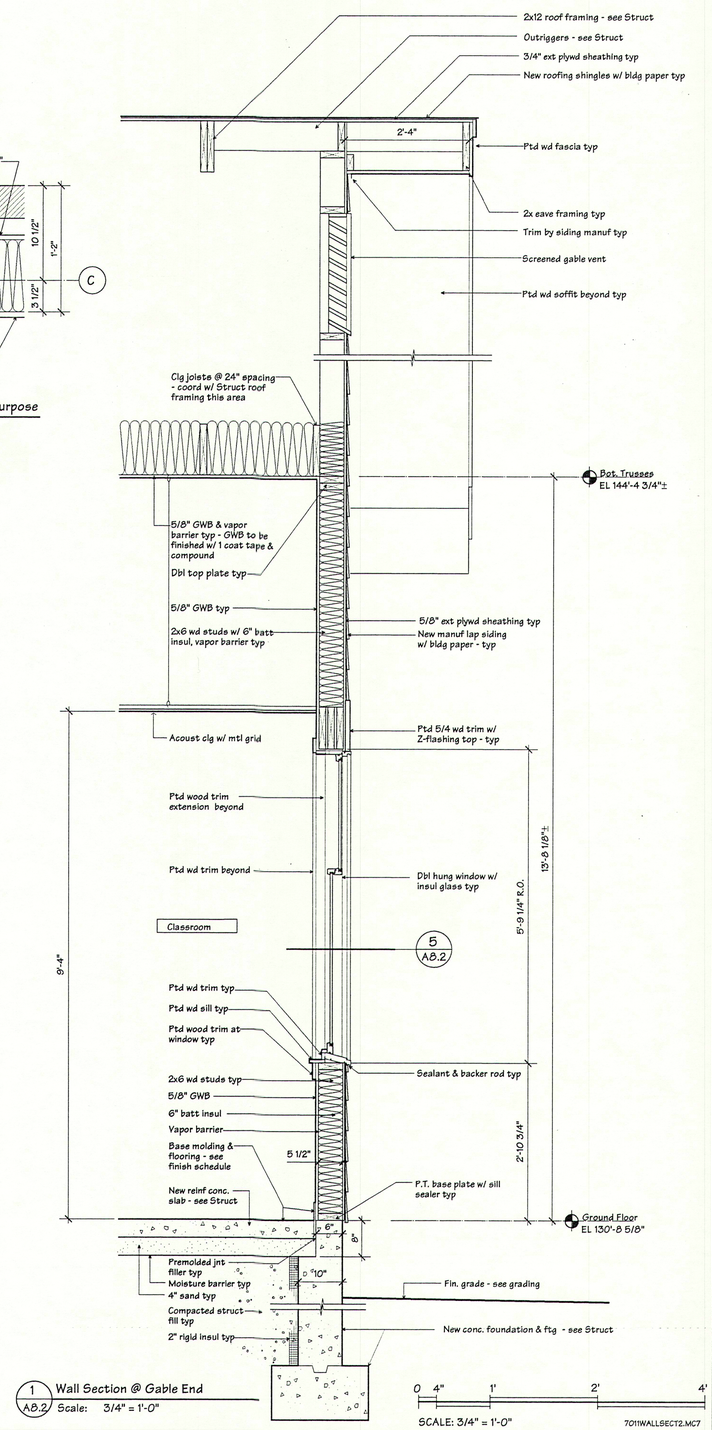
A8.1











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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

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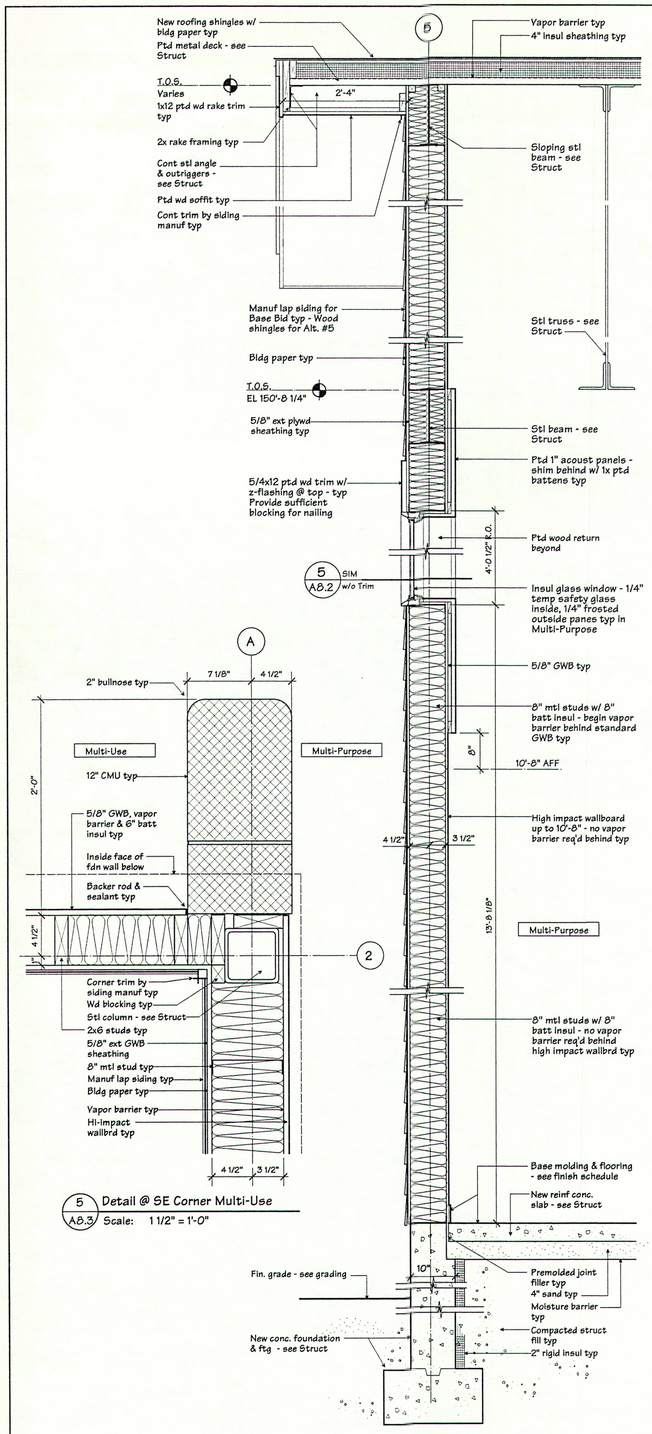
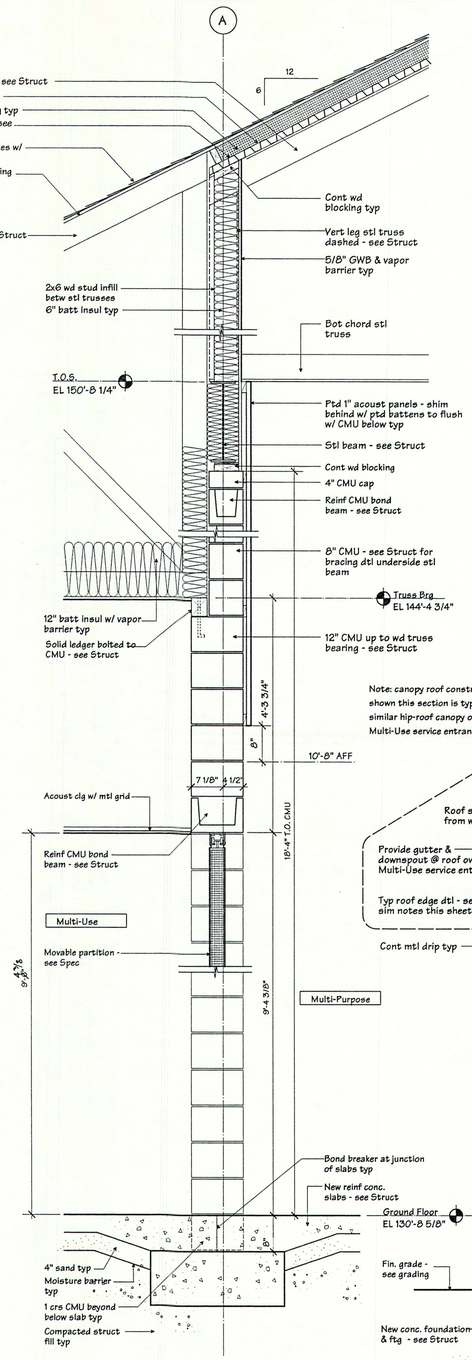
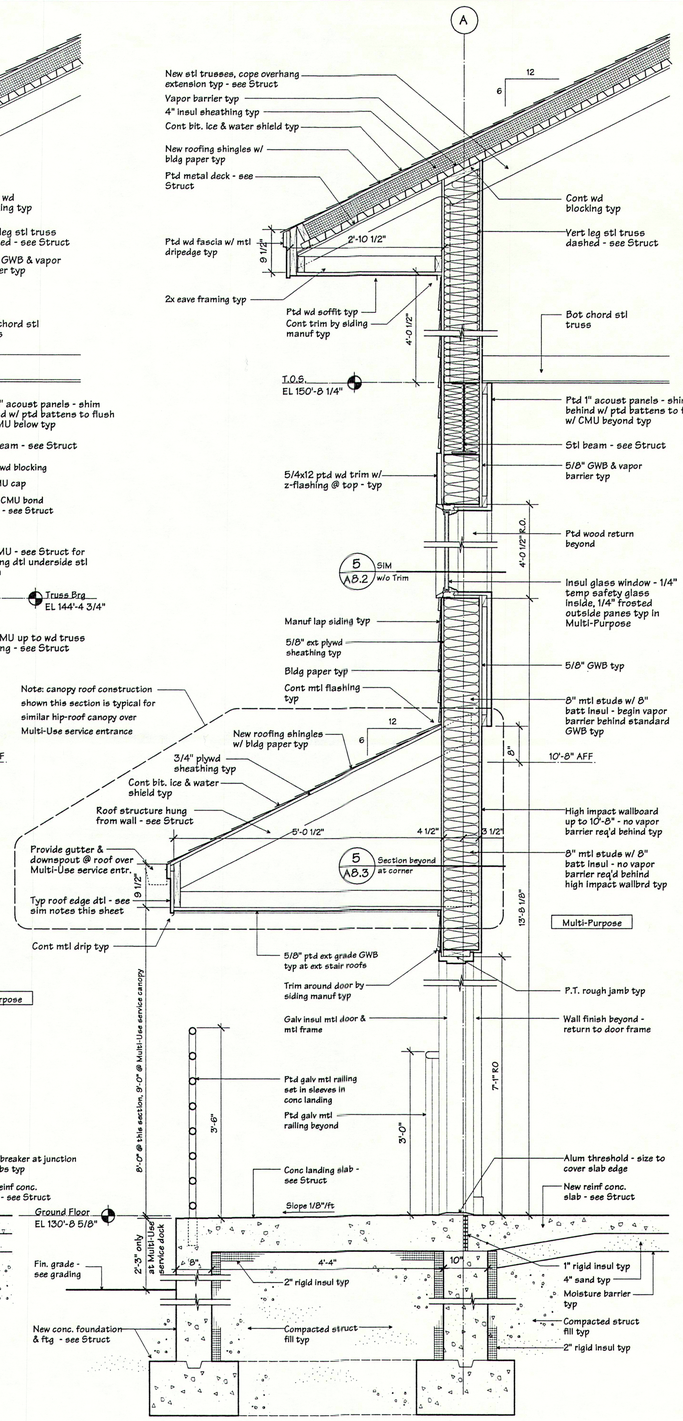
A8.2



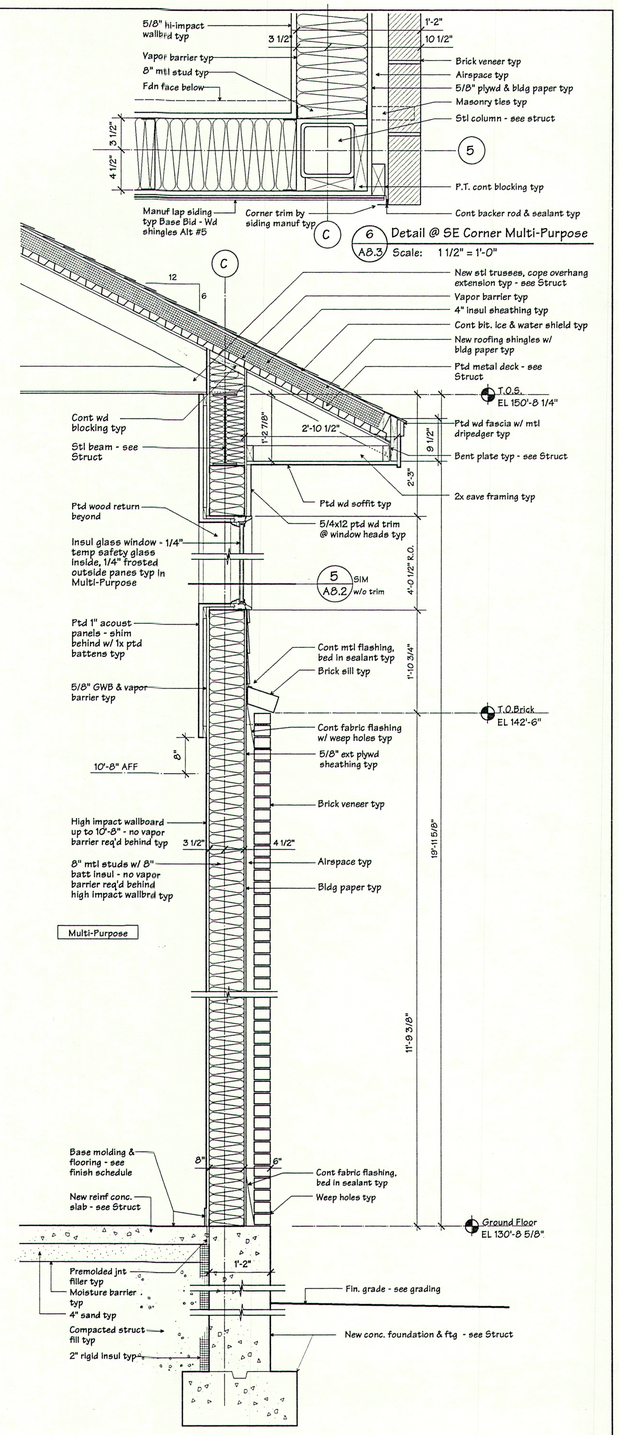
5 A8.3 Detail @ SE Corner Multi-Use
Scale: 1 1/2" = 1'-0"



3 A8.3 Wall Section @ Multi-Use/Multi-Purpose
Scale: 3/4" = 1'-0"



2 A8.3 Wall Section @ West Wall Multi-Purpose
Scale: 3/4" = 1'-0"



1 A8.3 Wall Section @ East Wall Multi-Purpose
Scale: 3/4" = 1'-0"

0 4" 1' 2' 4'
SCALE: 3/4" = 1'-0"

7011WALLSECT3.MC7

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

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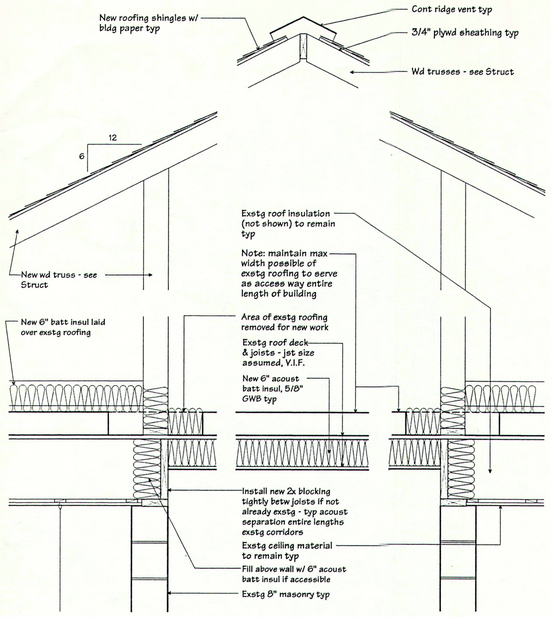
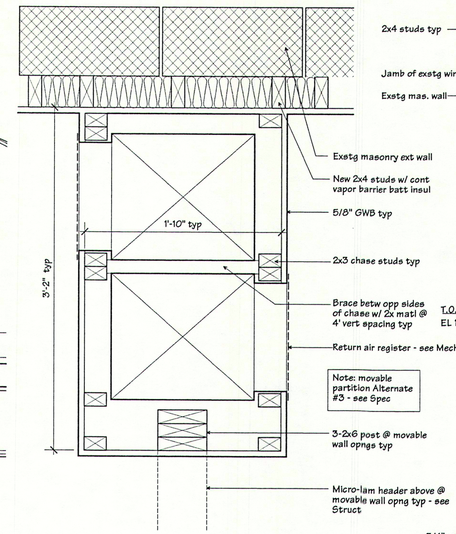
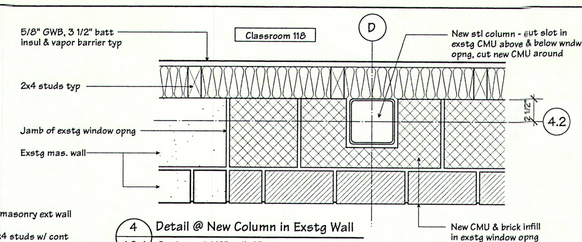
A8.3



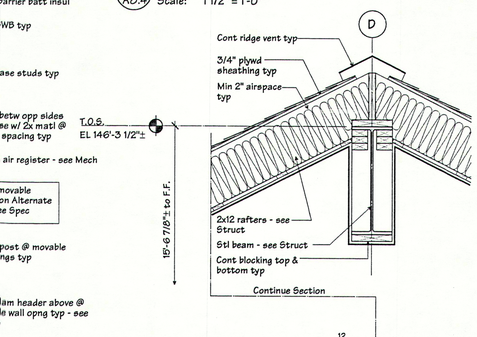
6 Ptl Section @ Roof Cavity in Exstg Bldg
A8.4 Scale: 3/4" = 1'-0"

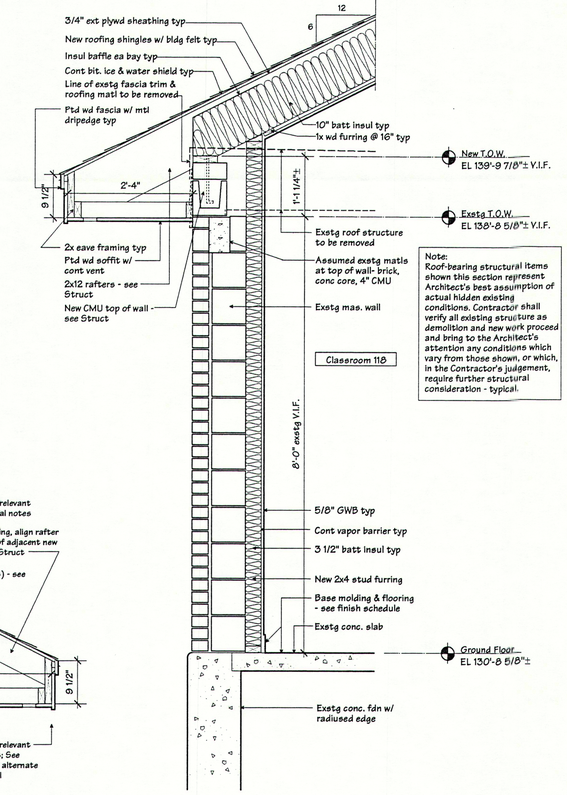


7 Detail @ Typ Classroom Duct Chase
A8.4 Scale: 1 1/2" = 1'-0"

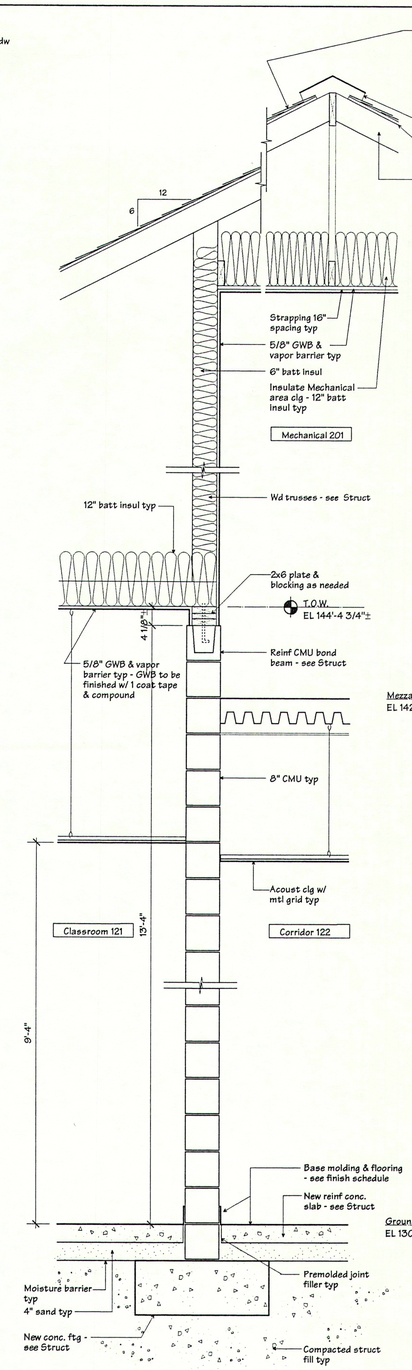


4 Detail @ New Column in Exstg Wall
A8.4 Scale: 1 1/2" = 1'-0"

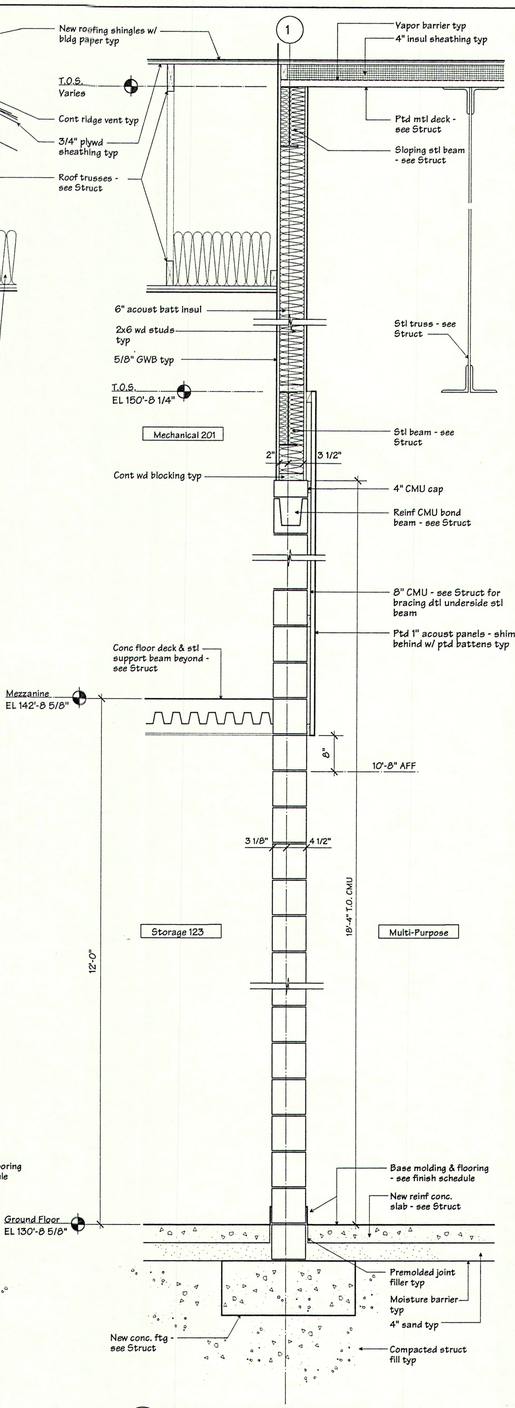




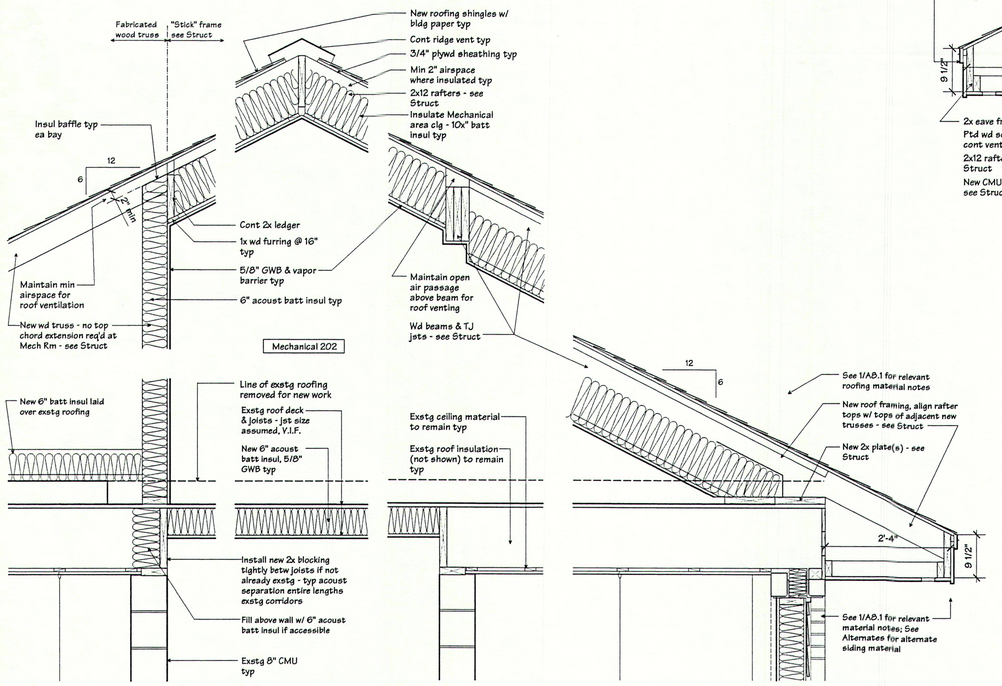
3 Wall Section @ Exstg 2-Story Wing
A8.4 Scale: 3/4" = 1'-0"



2 Wall Section @ North Wall Corridor 122
A8.4 Scale: 3/4" = 1'-0"



1 Wall Section @ North Wall Multi-Purpose
A8.4 Scale: 3/4" = 1'-0"



5 Wall Section @ Mech Rm in Exstg Bldg
A8.4 Scale: 3/4" = 1'-0"

0 4" 1' 2' 4'
SCALE: 3/4" = 1'-0" 7011WALLSECT4.MC7

TERRIEN ARCHITECTS

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

WALL SECTIONS

REGISTERED ARCHITECT ROBERT HOWE No. 1241 STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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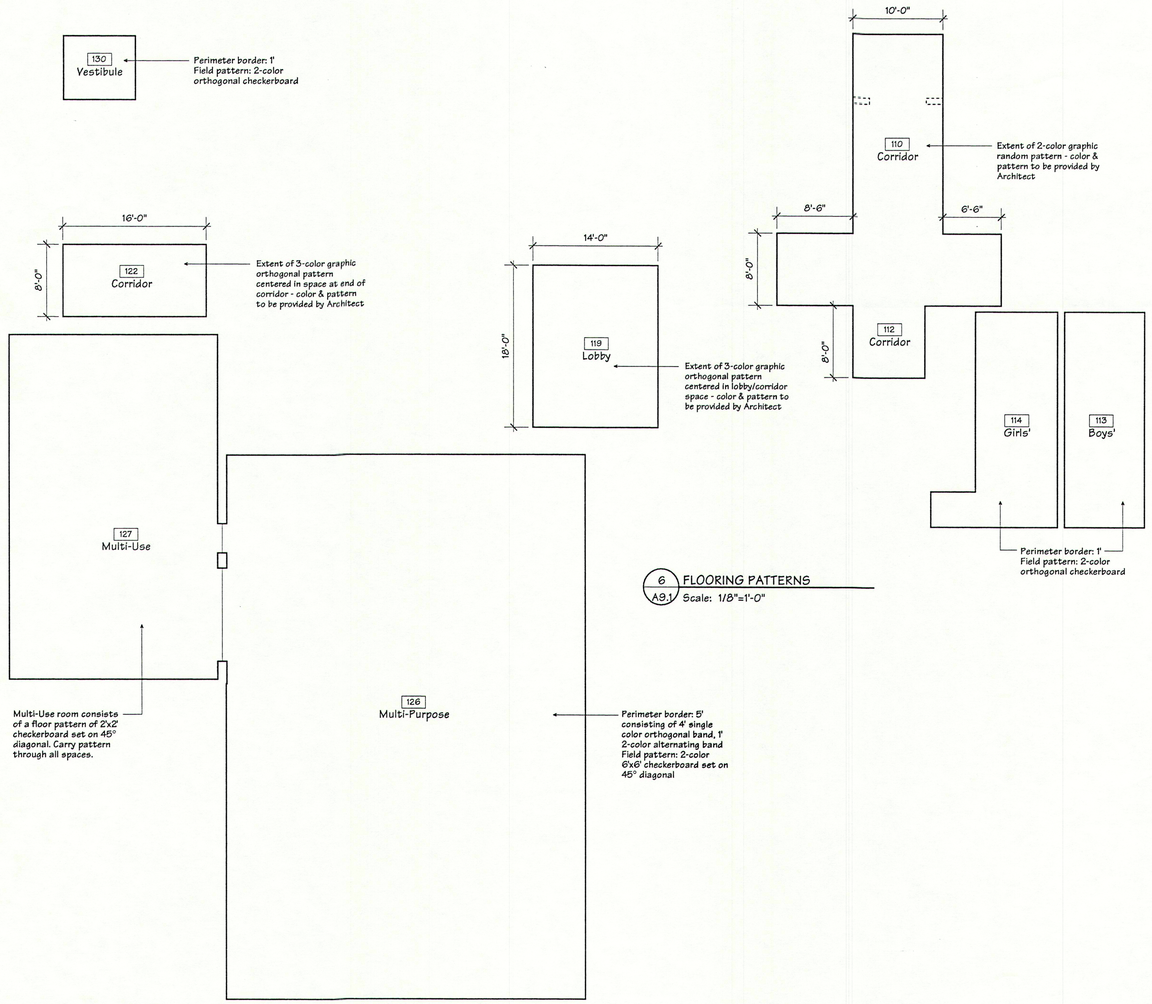
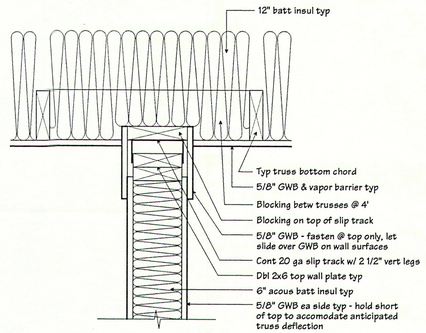
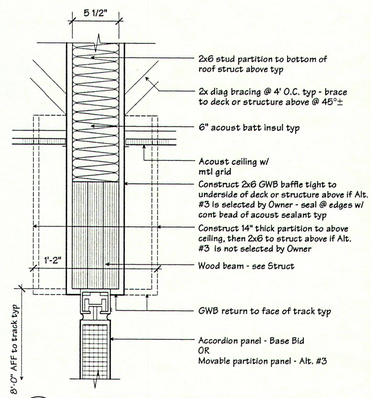
A8.4



6 A9.1 FLOORING PATTERNS
Scale: 1/8"=1'-0"

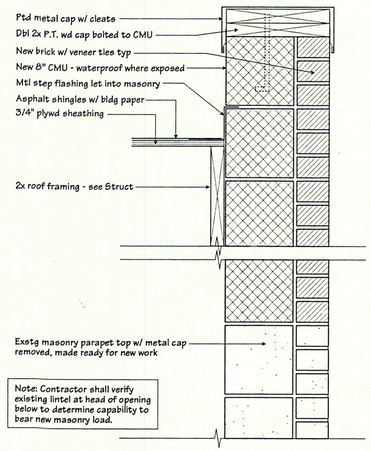


5 A9.1 Detail @ Top of New Wall Typ
Scale: 1 1/2" = 1'-0"

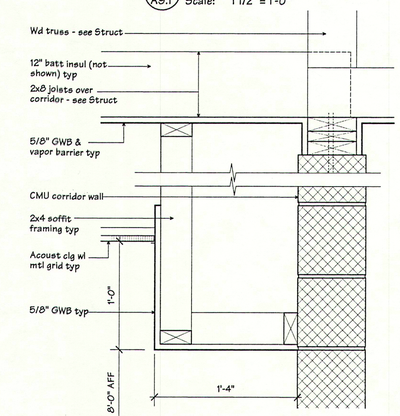


4 A9.1 Detail Movable Part'n @ Classroom Ceiling Typ
Scale: 1 1/2" = 1'-0"

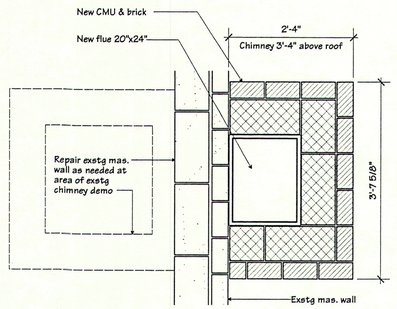
Note: Detail shows Alt. #3 condition, Base Bid shown dashed



3 A9.1 Detail @ Parapet Extension
Scale: 1 1/2" = 1'-0"



2 A9.1 Detail @ GWB Ceiling Soffit
Scale: 1 1/2" = 1'-0"



1 A9.1 Section @ New Chimney
Scale: 3/4" = 1'-0"

ALTERNATE #2

0 4" 1' 2' 4'
SCALE: 3/4" = 1'-0"

7011MISCDTL1.MC7

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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

MISCELLANEOUS DETAILS

REGISTERED ARCHITECT
ROBERT HOWE
No. 1241
STATE OF MAINE

DATE: 29 August, 1997
REVISIONS:

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DRAWING NO.
A9.1

GENERAL NOTES:

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, EQUIPMENT, SITE AND SHOP DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. THE GENERAL CONTRACTOR SHALL DETERMINE ALL NECESSARY DIMENSIONS, ELEVATIONS AND CONDITIONS REQUIRED FOR FABRICATION AND ERECTION OF THE BUILDING'S COMPONENTS PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL ACCURATELY REFLECT THE GENERAL CONTRACTOR'S VERIFICATION OF FIELD CONDITIONS.
4. SHOP DRAWINGS SHALL BE ORIGINAL DRAWINGS PREPARED BY THE GENERAL CONTRACTOR OR AN APPROPRIATE SUBCONTRACTOR. REPRODUCTION OF THE STRUCTURAL CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS WILL NOT BE ACCEPTED.
5. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE GENERAL CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCING TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE GENERAL CONTRACTOR AFTER COMPLETION OF THE PROJECT.
6. SECTIONS AND DETAILS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
7. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

DESIGN CRITERIA:

1. BUILDING CODE: BOCA NATIONAL BUILDING CODE/1993
2. DESIGN LOADS:
   - A. SNOW LOAD:
     - GROUND SNOW LOAD, P_g — 60 PSF
     - SNOW EXPOSURE FACTOR — 0.7
     - SNOW LOAD IMPORTANCE FACTOR — 1.15
     - FLAT ROOF SNOW LOAD — 35 PSF ON FLAT ROOFS
     - SLOPED ROOF SNOW LOAD REDUCTIONS, UNBALANCED SNOW LOADS, DRIFTING LOADS AND SLIDING SNOW LOADS HAVE BEEN USED IN THE DESIGN WHERE REQUIRED.
   - B. LIVE LOADS:
     - MECHANICAL MEZZANINE — 125 PSF OR ACTUAL EQUIPMENT WEIGHT
     - LIVE LOAD REDUCTIONS AND STRESS INCREASES FOR DURATION OF LOADS HAVE BEEN UTILIZED WHEN APPROPRIATE.
   - C. WIND LOADS:
     - MAIN WIND-FORCE RESISTING SYSTEM
       - IMPORTANCE FACTOR — 1.23
       - BASIC WIND SPEED — 85 MPH
       - EXPOSURE — C
     - COMPONENTS AND CLADDING
       - EXPOSURE — C
   - D. SEISMIC DESIGN DATA:
     - PEAK VELOCITY RELATED ACCELERATION, A_v — 0.11
     - PEAK ACCELERATION, A_a — 0.11
     - SEISMIC HAZARD EXPOSURE GROUP — I
     - SEISMIC PERFORMANCE CATEGORY — C
     - SOIL PROFILE TYPE — S_1
     - BASIC STRUCTURAL SYSTEM — CONCENTRICALLY BRACED FRAME
     - RESPONSE MODIFICATION FACTOR, R — 5
     - DEFLECATION AMPLIFICATION FACTOR, C_d — 4½
     - ANALYSIS PROCEDURE — EQUIVALENT LATERAL FORCE

FOUNDATION NOTES:

1. INTERIOR SPREAD FOOTINGS AND EXTERIOR STRIP FOOTINGS SHALL BE FOUNDED ON MEDIUM DENSE TO DENSE GRANULAR SOIL. NOTIFY ARCHITECT IF OTHER BEARING CONDITIONS ARE ENCOUNTERED
2. EXTERIOR STRIP AND SPREAD FOOTINGS SHALL BE FOUNDED A MINIMUM OF 5'-0" BELOW FINISHED GRADE.
3. UNSUPPORTED EXCAVATIONS SHALL BE CUT TO A SLOPE OF 1.5 HORIZONTAL TO 1.0 VERTICAL OR FLATTER
4. EXTERIOR AND INTERIOR SIDES OF FOUNDATIONS SHALL BE BACKFILLED WITH STRUCTURAL FILL PLACED IN LIFTS AND COMPACTED TO AT LEAST 95% OF ITS DRY DENSITY AS DETERMINED BY ASTM D-1557.
5. INTERIOR SLABS ON GRADE SHALL BE PLACED ON A 4" MOISTENED SAND CUSHION OVER AN 8 MIL MOISTURE BARRIER BEARING ON A MINIMUM OF 8" OF COMPACTED CRUSHED GRAVEL.
6. UNDERDRAINS SHALL BE PLACED AS SHOWN ON THE SITE DRAWINGS. UNDERDRAINS SHALL BE INSTALLED TO POSITIVELY DRAIN TO A SUITABLE DISCHARGE OR PUMP POINT AWAY FROM THE STRUCTURE. REFER TO SITE DRAWINGS FOR ADDITIONAL INFORMATION.
7. EXTERIOR CONCRETE SLABS ON GRADE, SHALL BE UNDERLAIN BY AT LEAST 5 FEET OF SELECT FILL.
8. BACKFILL BOTH SIDES OF FOUNDATION WALLS SIMULTANEOUSLY.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318-89.
2. CONCRETE STRENGTH AT 28 DAYS SHALL BE:
   a). 3000 PSI FOR ALL FOOTINGS, FROST WALLS, EXTERIOR SLABS AND EXPOSED SITE CONCRETE.
   b). 4000 PSI FOR ALL ELEVATED SLABS AND SLABS-ON-GRADE.
3. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 DEFORMED BARS, AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315-LATEST EDITION.
4. WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR, IT SHALL BE EXTENDED CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICES UNLESS NOTED OTHERWISE.
5. WHERE REINFORCEMENT IS NOT EXPLICITLY CALLED OUT ON THE DRAWINGS, PROVIDE REINFORCEMENT WITH A MINIMUM AREA OF 0.0025 TIMES THE GROSS CONCRETE AREA IN EACH DIRECTION.
6. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
7. FIBER REINFORCED CONCRETE SHALL CONFORM TO ASTM C-1116.

STEEL NOTES:

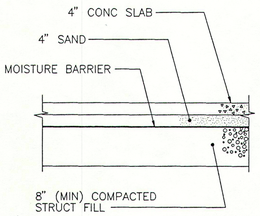
1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL"-NINTH EDITION.
2. STRUCTURAL STEEL:
   A. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36.
   B. STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GR.B.

C. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53, TYPE E OR S, GR. B.

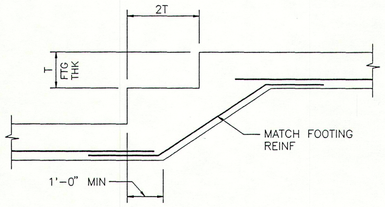
3. DESIGN CONNECTIONS FOR THE REACTIONS SHOWN ON THE DRAWINGS OR THE MAXIMUM END REACTION THAT CAN BE PRODUCED BY A LATERALLY SUPPORTED UNIFORMLY LOADED BEAM FOR EACH GIVEN BEAM SIZE AND SPAN.
4. FIELD CONNECTIONS SHALL BE BOLTED USING 3/4" DIAMETER ASTM A-325 HIGH STRENGTH BOLTS EXCEPT WHERE FIELD WELDING IS INDICATED ON THE DRAWINGS.
5. ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. WELDING ELECTRODES SHALL BE E70XX.
6. STEEL ROOF DECK SHALL BE 1.5B 20 GAGE BY VULCRAFT OR APPROVED ALTERNATE UNLESS OTHERWISE INDICATED ON PLAN. STEEL DECK UNITS SHALL CONFORM WITH THE LATEST EDITION OF THE "DESIGN MANUAL FOR FLOOR AND ROOF DECKS" BY THE STEEL DECK INSTITUTE. STEEL ROOF DECK SHALL BE PAINTED. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF OTHER TYPES OF DECK.
7. STEEL FLOOR DECK SHALL BE AS INDICATED ON PLAN BY VULCRAFT OR APPROVED ALTERNATE. STEEL DECK UNITS SHALL CONFORM WITH THE LATEST EDITION OF THE "DESIGN MANUAL FOR FLOOR AND ROOF DECKS" BY THE STEEL DECK INSTITUTE. STEEL FLOOR DECK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-525 G60.
8. FASTEN METAL DECK TO ALL STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT 12" O.C. UNLESS OTHERWISE INDICATED ON PLAN. FASTEN ROOF DECK SIDELAPS WITH 1-#12 HEX HEAD SCREWS EACH SPAN. AT LOCATIONS WHERE ROOF DECK IS TO BE EXPOSED TO VIEW - SIDELAP CONNECTORS SHALL BE OMITTED.
9. OPEN WEB STEEL JOISTS SHALL CONFORM TO STEEL JOIST INSTITUTE "STANDARD SPECIFICATION FOR STEEL JOIST AND JOIST GIRDERS."
10. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. BRIDGING SHALL SUPPORT THE TOP CHORD AGAINST LATERAL MOVEMENT DURING THE CONSTRUCTION PERIOD AND SHALL HOLD THE JOIST IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. BRIDGING SHALL BE AS CALLED OUT ON THE PLANS.
11. ITEMS ATTACHED TO STEEL JOISTS SHALL BE ATTACHED TO PANEL POINTS OF JOISTS ONLY, OR AN ADDITIONAL WEB MEMBER SHALL BE ADDED TO THE JOIST AT THE LOCATION OF THE CONCENTRATED LOAD. THE JOIST MANUFACTURER SHALL BE RESPONSIBLE FOR SUPPLYING THE PROPER ADDITIONAL WEB MEMBER SIZE.
12. LOADS SHALL NOT BE PLACED ON JOISTS UNLESS THE JOIST HAS BEEN DESIGNED TO SUPPORT THE LOAD.
13. STEEL JOISTS SHALL BE SHOP PRIMED PER SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ARCHITECTURAL PAINT TYPE AND COLOR FOR JOISTS TO BE REVEALED.

METAL-PLATE-CONNECTED WOOD TRUSSES NOTES:

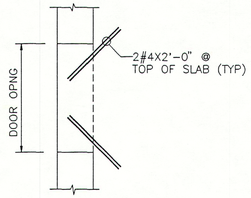
1. DESIGN AND ERECTION OF METAL-PLATE-CONNECTED WOOD TRUSSES SHALL CONFORM TO THE FOLLOWING:
   - ANSI/TPI 1 1995, "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION" INCLUDING COMENTARY AND APPENDICES
   - DSB-1989, "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL-PLATE-CONNECTED WOOD TRUSSES."
   - HIB-1991, "HANDLING, INSTALLING & BRACING METAL-PLATE-CONNECTED WOOD TRUSSES."
   - DSB-89, "TEMPORARY BRACING OF METAL-PLATE-CONNECTED WOOD TRUSSES."



TYP SLAB ON GRADE DETAIL U.N.O.
N.T.S.

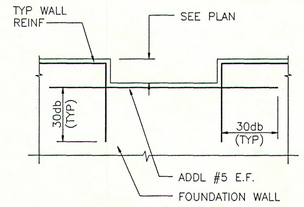


TYP STEP FOOTING DETAIL
N.T.S.

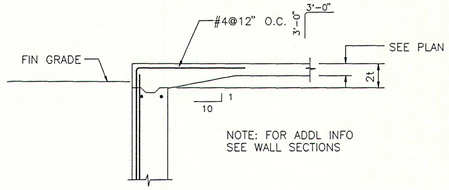


NOTE: PROVIDE 2#4X4'-0"(TOP) IN SLAB AT REENTRANT CORNERS. SEE PLAN

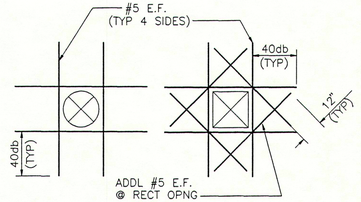
TYP SLAB ON GRADE CORNER DETAIL @ DOOR
N.T.S.



TYP WALL DEPRESSION DETAIL
N.T.S.

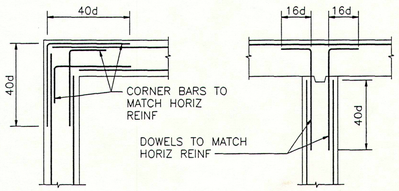


TYP DETAIL @ DOOR OPENING
N.T.S.

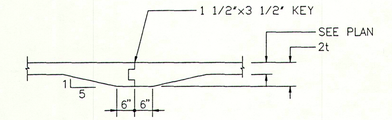


NOTE: OPENING IN SLAB APPLIES @ ALL OPENINGS INCLUDING STAIRS, ELEVATORS & HVAC OPENINGS. AT OPENINGS IN CONCRETE SLABS ON METAL DECK, PLACE SINGLE LAYER REINF IN MIDDLE OF SLAB.

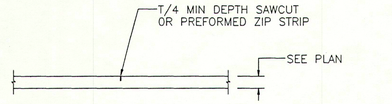
TYP OPENING IN WALL OR SLAB
N.T.S.



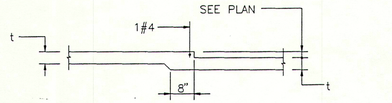
TYP WALL REINFORCING DETAILS
N.T.S.



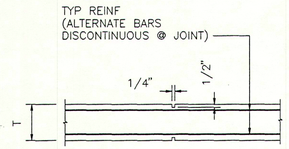
TYP SLAB ON GRADE CONST JOINT DETAIL
N.T.S.



TYP SLAB ON GRADE CONTROL JOINT DETAIL
N.T.S.

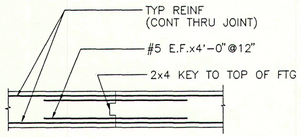


TYP SLAB ON GRADE DEPRESSION DETAIL
N.T.S.



NOTES:
1. COORD CONTROL JOINTS IN FDN WALL WITH BRICK CONTROL JOINTS. SEE ARCH DWGS.
2. LOCATE CONTROL JOINTS AT 15'-0" MAX FROM ALL CORNERS AND 30'-0" MAX SPACING ALONG WALLS.

TYP CONTROL JOINT IN WALL
N.T.S.



NOTES:
1. CONST JOINT DOES NOT EXTEND THRU FTG
2. DISTANCE BETWEEN CONST JOINTS IN STRAIGHT LENGTHS OF WALL NOT TO EXCEED 60'-0"

TYP CONST JOINT IN WALL
N.T.S.

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

GENERAL NOTES & TYP DETAILS

STATE OF MAINE — DAVID TETREAULT — 6840 — REGISTERED PROFESSIONAL ENGINEER

DATE: SEPT 03, 1997
REVISIONS:

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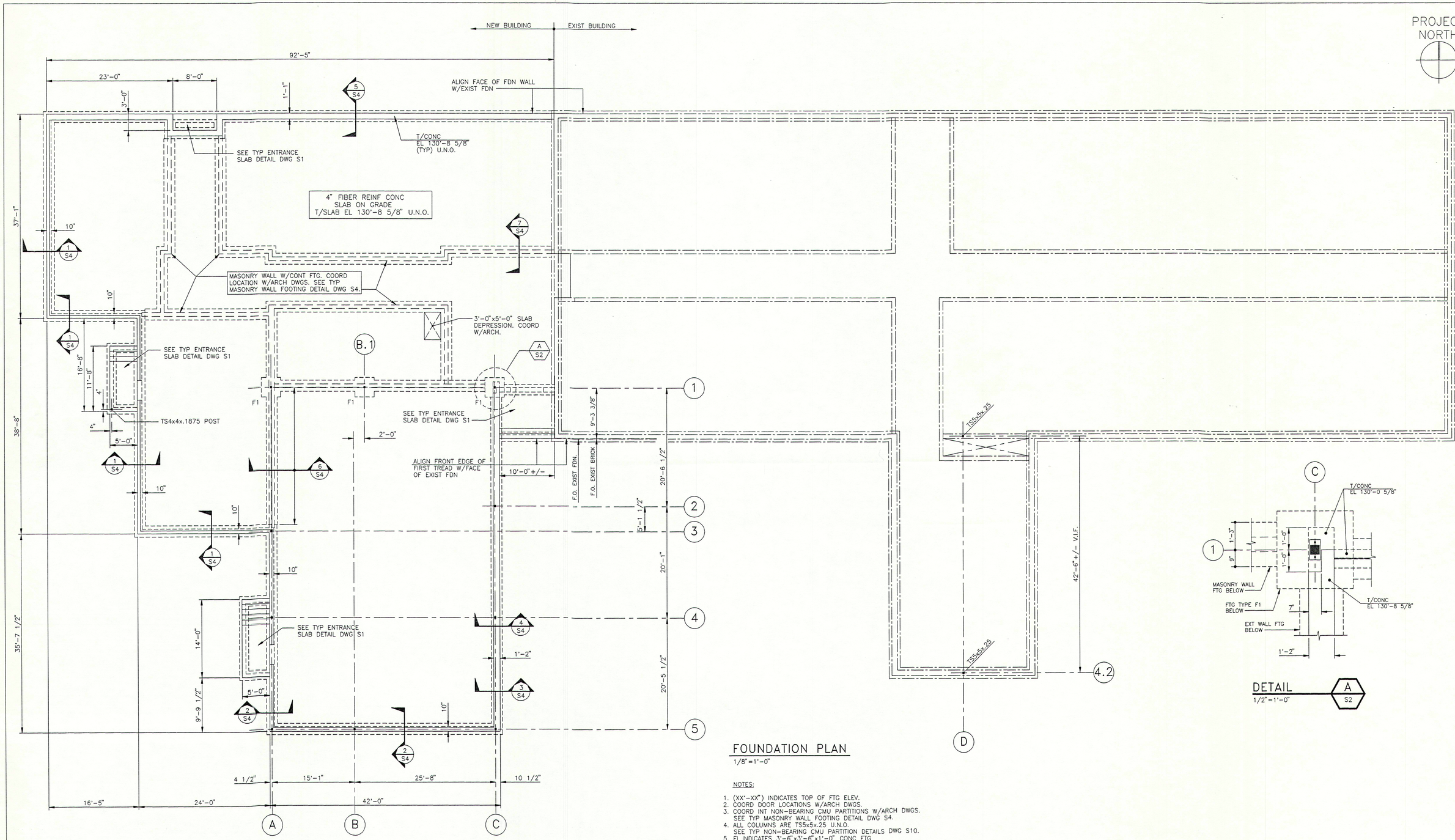
DRAWING NO.

S1



DETAIL A / S2
1/2"=1'-0"

FOUNDATION PLAN
1/8"=1'-0"

NOTES:

1. (XX'-XX") INDICATES TOP OF FTG ELEV.
2. COORD DOOR LOCATIONS W/ARCH DWGS.
3. COORD INT NON-BEARING CMU PARTITIONS W/ARCH DWGS. SEE TYP MASONRY WALL FOOTING DETAIL DWG S4.
4. ALL COLUMNS ARE TS5x5x.25 U.N.O. SEE TYP NON-BEARING CMU PARTITION DETAILS DWG S10.
5. F1 INDICATES 3'-6"x3'-6"x1'-0" CONC FTG W/4#5 EA WAY BOT.

TERRIEN ARCHITECTS

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

FOUNDATION PLAN

STATE OF MAINE DAVID TETREAULT 4840 REGISTERED PROFESSIONAL ENGINEER

DATE: SEPT 03, 1997
REVISIONS:

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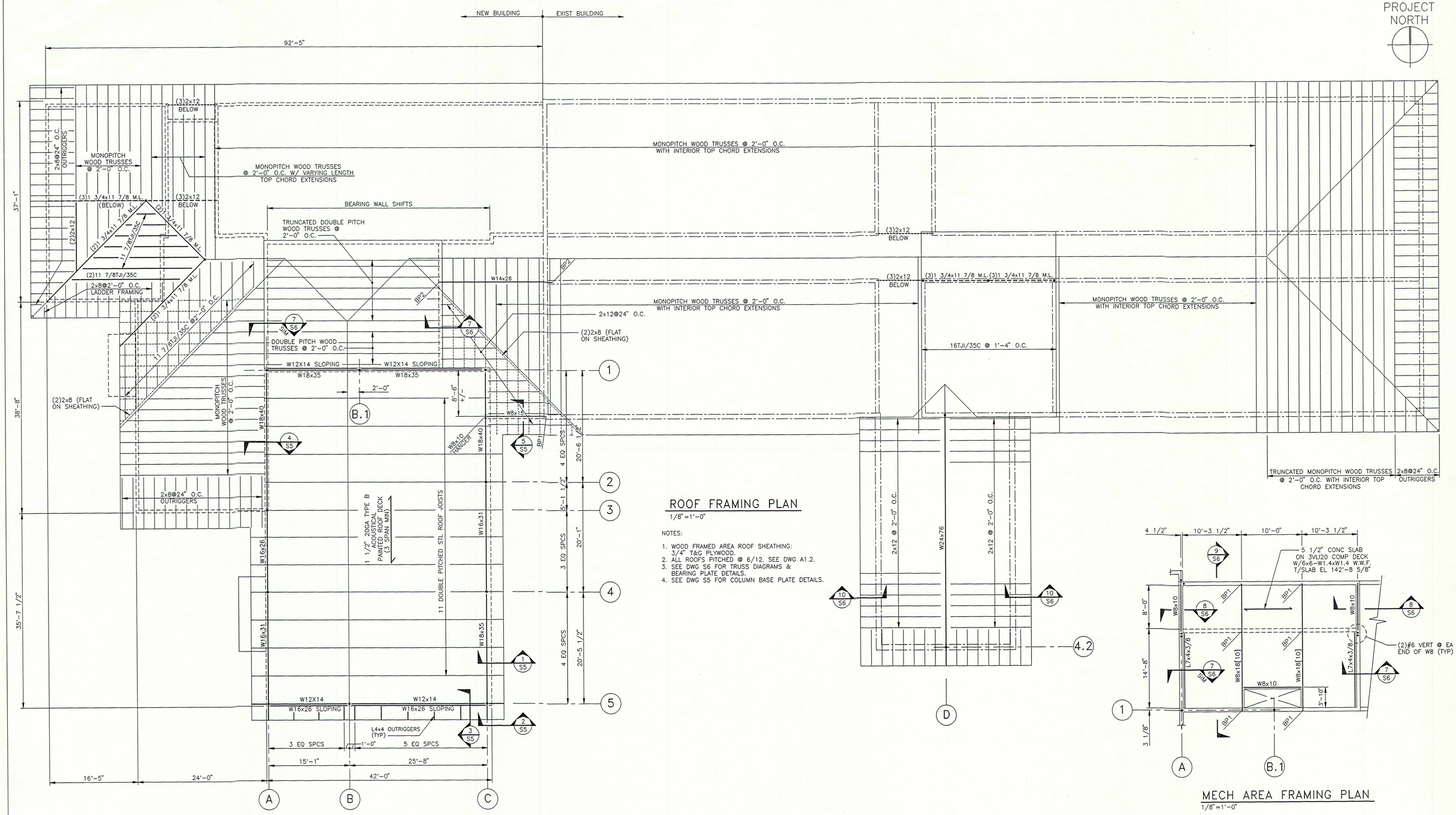
DRAWING NO. S2



ROOF FRAMING PLAN

1/8"=1'-0"

NOTES:

1. WOOD FRAMED AREA ROOF SHEATHING: 3/4" T&G PLYWOOD.
2. ALL ROOFS PITCHED @ 6/12. SEE DWG A1.2.
3. SEE DWG S6 FOR TRUSS DIAGRAMS & BEARING PLATE DETAILS.
4. SEE DWG S5 FOR COLUMN BASE PLATE DETAILS.

MECH AREA FRAMING PLAN

1/8"=1'-0"

NOTE: TOP OF STEEL EL 142'-3 1/8".

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ROOF FRAMING PLAN

STATE OF MAINE DAVID TETREAULT 4840 REGISTERED PROFESSIONAL ENGINEER

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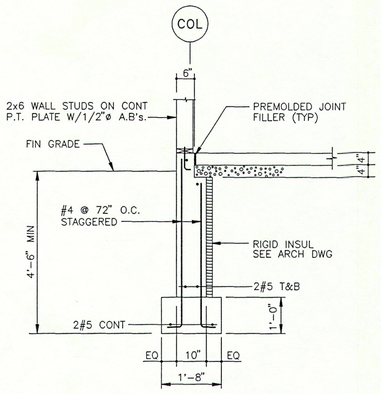
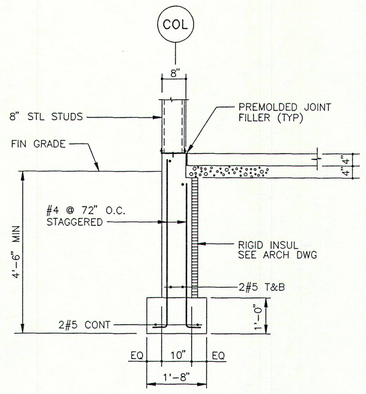
DRAWING NO.

S3



SECTION 1/S2
1/2"=1'-0"



SECTION 2/S2
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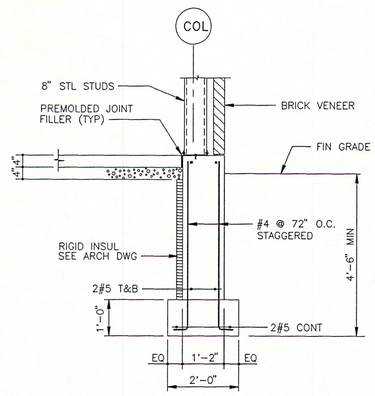
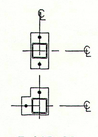
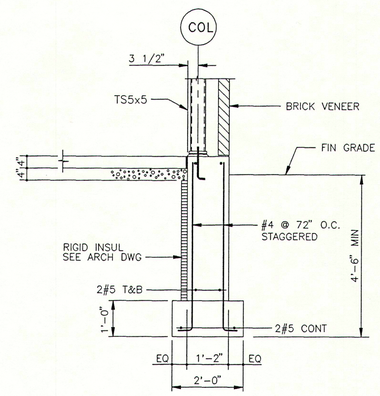
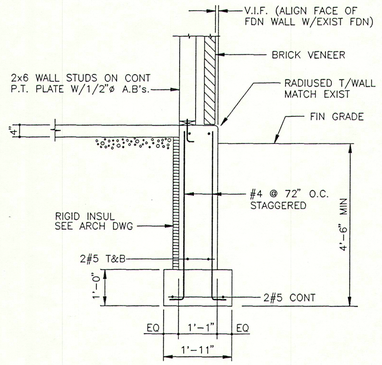


SECTION 3/S2
1/2"=1'-0"

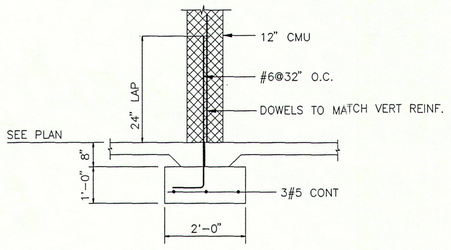




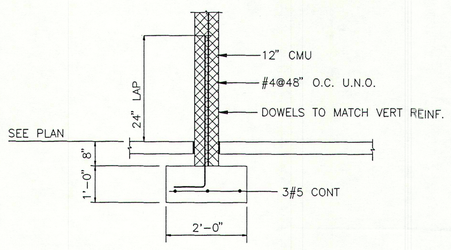
SECTION 4/S2
1/2"=1'-0"



SECTION 5/S2
1/2"=1'-0"

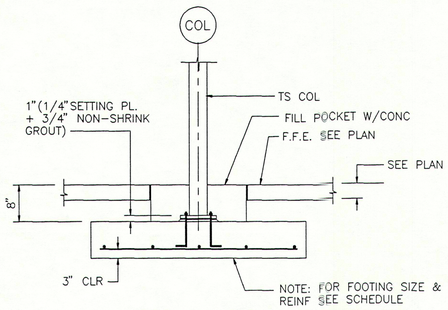


SECTION 6/S2
1/2"=1'-0"

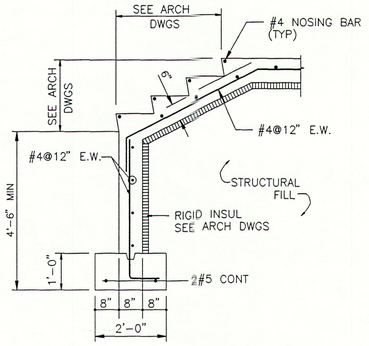


NOTE: THE FULL EXTENT OF MASONRY WALLS IS NOT SHOWN ON THE FOUNDATION PLAN. SEE ARCH DWGS FOR LOCATIONS & ADDL INFO.

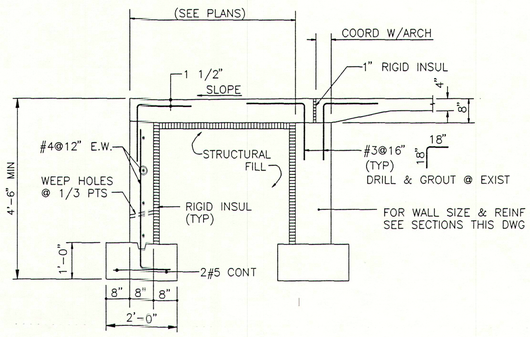
SECTION 7/S2
1/2"=1'-0"



TYP INTERIOR FOOTING DETAIL
N.T.S.



TYP CONCRETE STAIR DETAIL
N.T.S.



TYP ENTRANCE SLAB DETAIL
N.T.S.

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

CONCRETE SECTIONS & DETAILS

STATE OF MAINE DAVID TETREAULT 4840 REGISTERED PROFESSIONAL ENGINEER

DATE: SEPT 03, 1997
REVISIONS:

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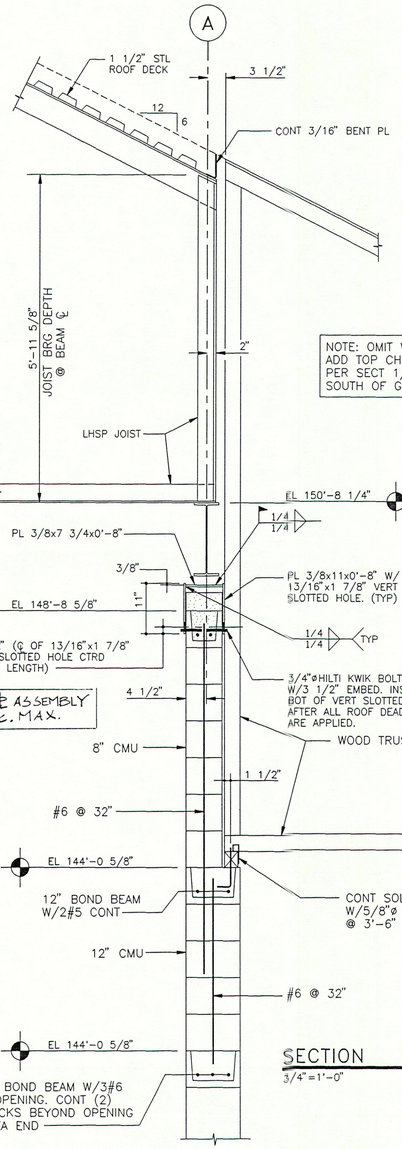
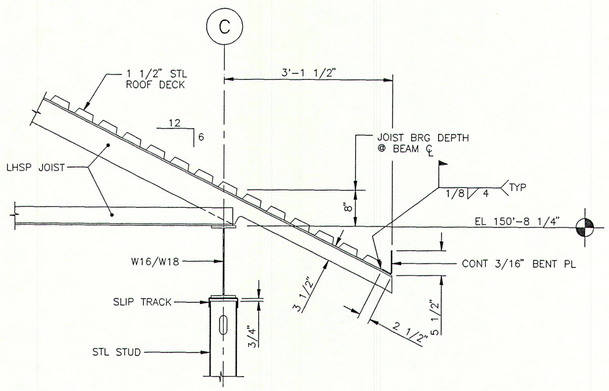
DRAWING NO.
S4

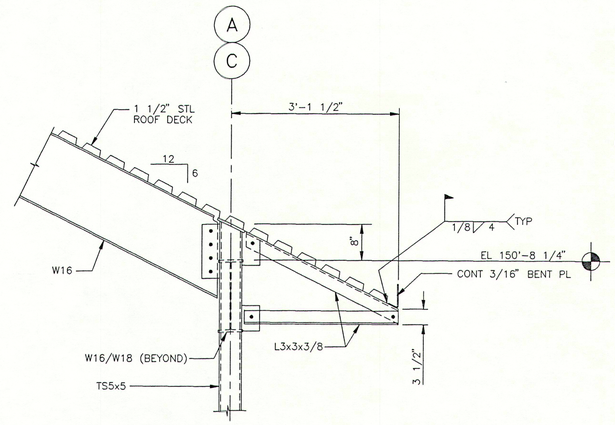


SECTION 4
3/4"=1'-0"

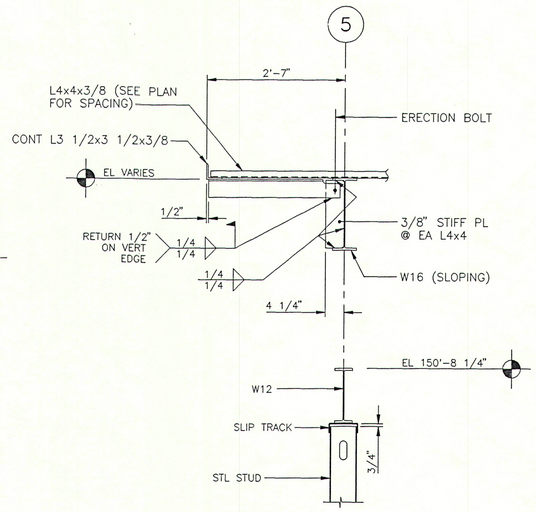
NOTE: OMIT WOOD TRUSSES & ADD TOP CHORD EXTENSION PER SECT 1/S3 TO LHSP JOISTS SOUTH OF GRID LINE 3.



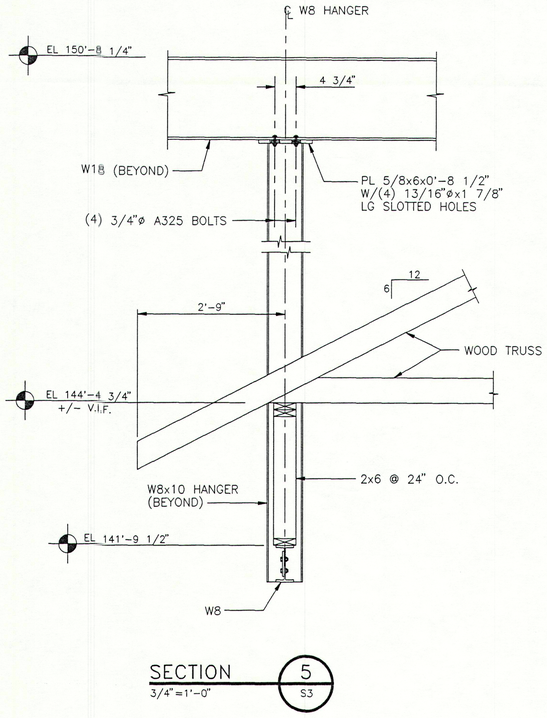
SECTION 1
3/4"=1'-0"



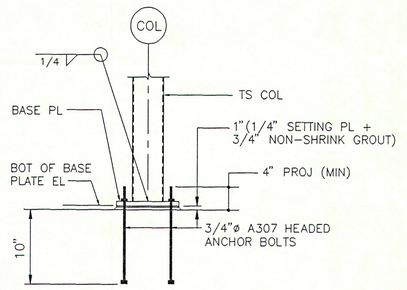
SECTION 2
3/4"=1'-0"



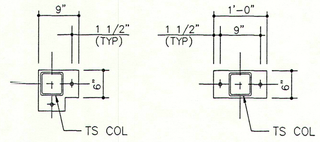
SECTION 3
3/4"=1'-0"



SECTION 5
3/4"=1'-0"



TYP COL BASE DETAIL
N.T.S.



NOTE: BASE PLATE THICKNESS = 3/4"

BASE PLATE DETAILS
N.T.S.

LINTEL SCHEDULE	
MASONRY OPENING	LINTEL SIZE
UP TO 3'-0"	L3 1/2x3 1/2x5/16
3'-1"-4'-6"	L4x3 1/2x5/16 (4" LEG VERT.)
4'-7"-6'-0"	L5x3 1/2x5/16 (5" LEG VERT.)
6'-1"-8'-0"	L6x3 1/2x5/16 (6" LEG VERT.)
8'-1"-12'-0"	L6x3 1/2x3/8 (6" LEG VERT)

NOTES:
1. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. FOR 6" WALLS, PROVIDE WT OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1 1/2 TIMES THE ANGLE PROPERTIES FOR A 4" WALL THICKNESS.
2. PROVIDE 8" OF BEARING @ EACH END OF ALL LINTELS.
3. ALL EXTERIOR LINTELS SHALL BE HOT-DIPPED GALVANIZED.

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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

FRAMING SECTIONS & DETAILS

STATE OF MAINE DAVID TETREAULT 4840 REGISTERED PROFESSIONAL ENGINEER

DATE: SEPT 03, 1997
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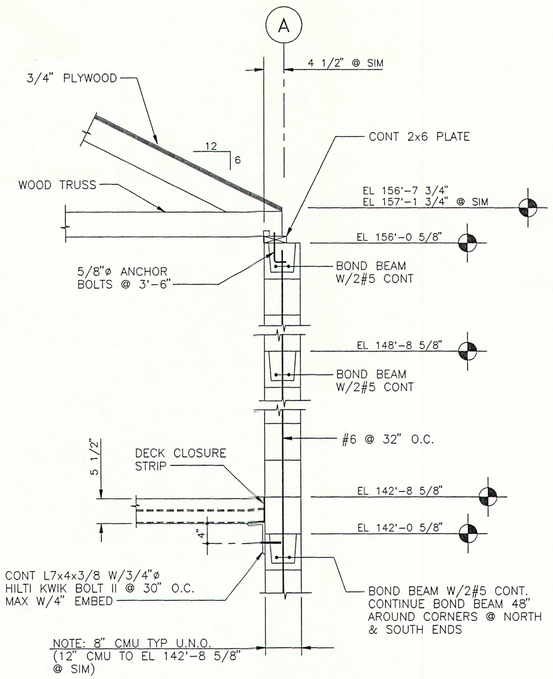
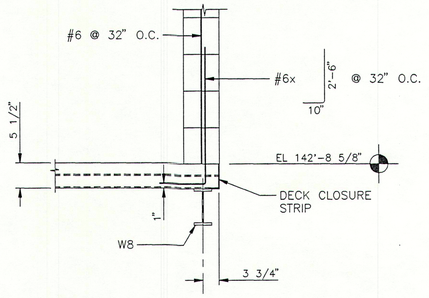
DRAWING NO.
S5

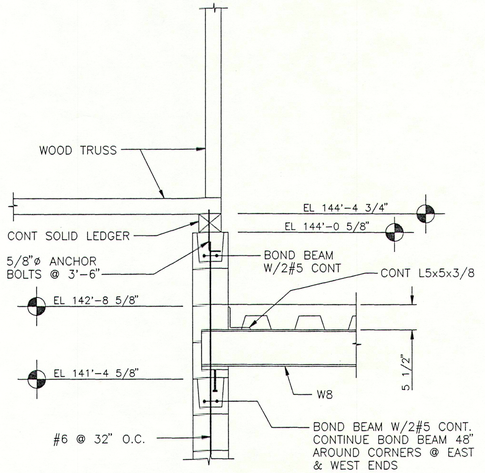


SECTION 7/S3 — 7/S3 SIM
3/4"=1'-0"



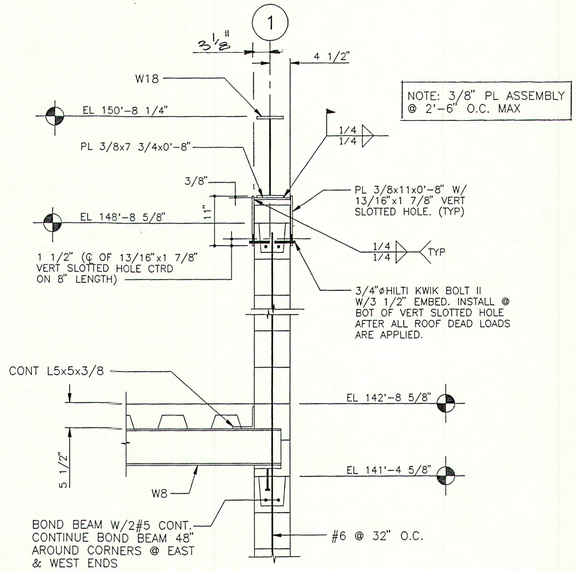
NOTE: FOR ADDL INFO SEE SECT 7 THIS DWG.

SECTION 8/S3
3/4"=1'-0"



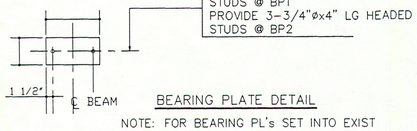
NOTE: FOR ADDL INFO SEE TYP BEAM BEARING DETAIL THIS DWG.

SECTION 9/S3
3/4"=1'-0"



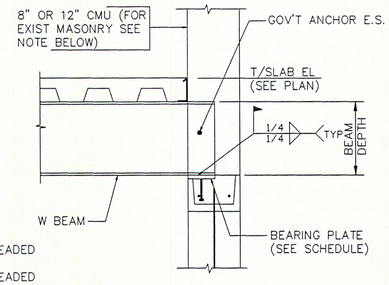
NOTE: FOR ADDL INFO SEE TYP BEAM BEARING DETAIL THIS DWG.

BEARING PLATES	
MARK	SIZE
BP1	PL 1/2x6x0'-9"
BP2	PL 5/8x6x1'-3"

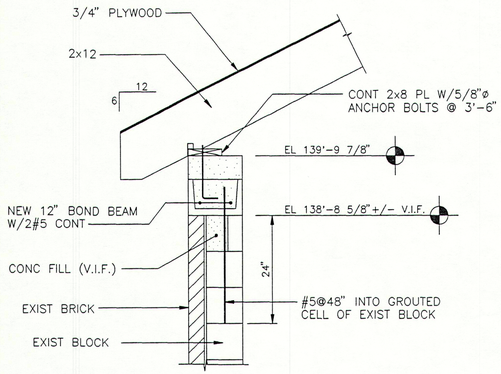


BEARING PLATE DETAIL

NOTE: FOR BEARING PL's SET INTO EXIST BRICK MASONRY, REMOVE BRICK AS REQD FOR ANCHORS AND SET PL IN A BED OF GROUT.



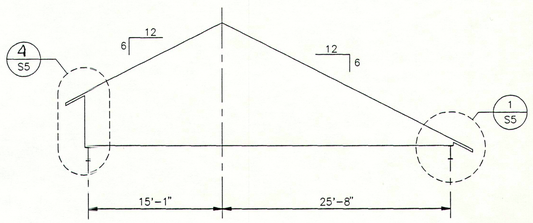
TYP BEAM BEARING DETAIL
N.T.S.



SECTION 10/S3
3/4"=1'-0"

SNOW LOAD CASE 2 = 60 PSF ON EITHER SLOPE

SNOW LOAD CASE 1 = 48 PSF

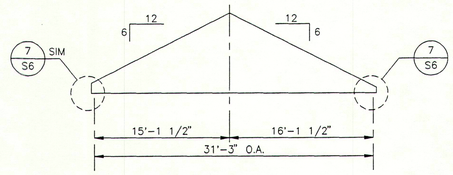


LHSP LOAD DIAGRAM

TOP CHORD DL = 16 PSF ALONG MEMBER
BOT CHORD DL = 6 PSF ALONG MEMBER
SNOW LOADS APPLY TO PROJECTED AREA

SNOW LOAD CASE 2 = 60 PSF ON EITHER SLOPE

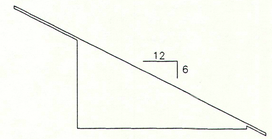
SNOW LOAD CASE 1 = 48 PSF



DOUBLE PITCH WOOD TRUSS LOAD DIAGRAM

TOP CHORD DL = 16 PSF ALONG MEMBER
BOT CHORD DL = 16 PSF ALONG MEMBER
SNOW LOADS APPLY TO PROJECTED AREA

SNOW LOAD = 60 PSF



MONOPITCH WOOD TRUSS LOAD DIAGRAM

TOP CHORD DL = 16 PSF ALONG MEMBER
BOT CHORD DL = 6 PSF ALONG MEMBER
SNOW LOADS APPLY TO PROJECTED AREA

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

FRAMING SECTIONS & DETAILS

STATE OF MAINE — DAVID TETREAULT — 6840 — REGISTERED PROFESSIONAL ENGINEER

DATE: SEPT 03, 1997
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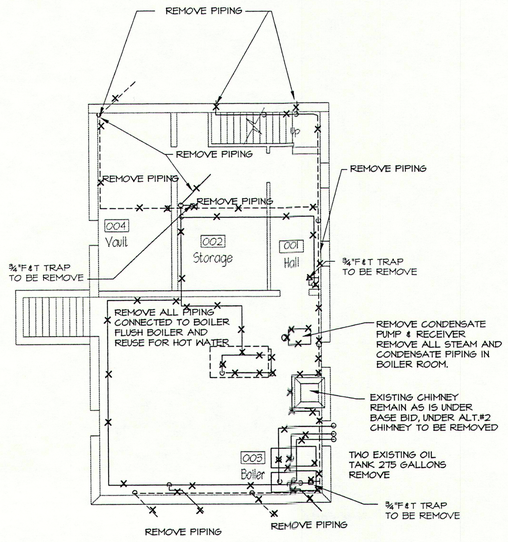
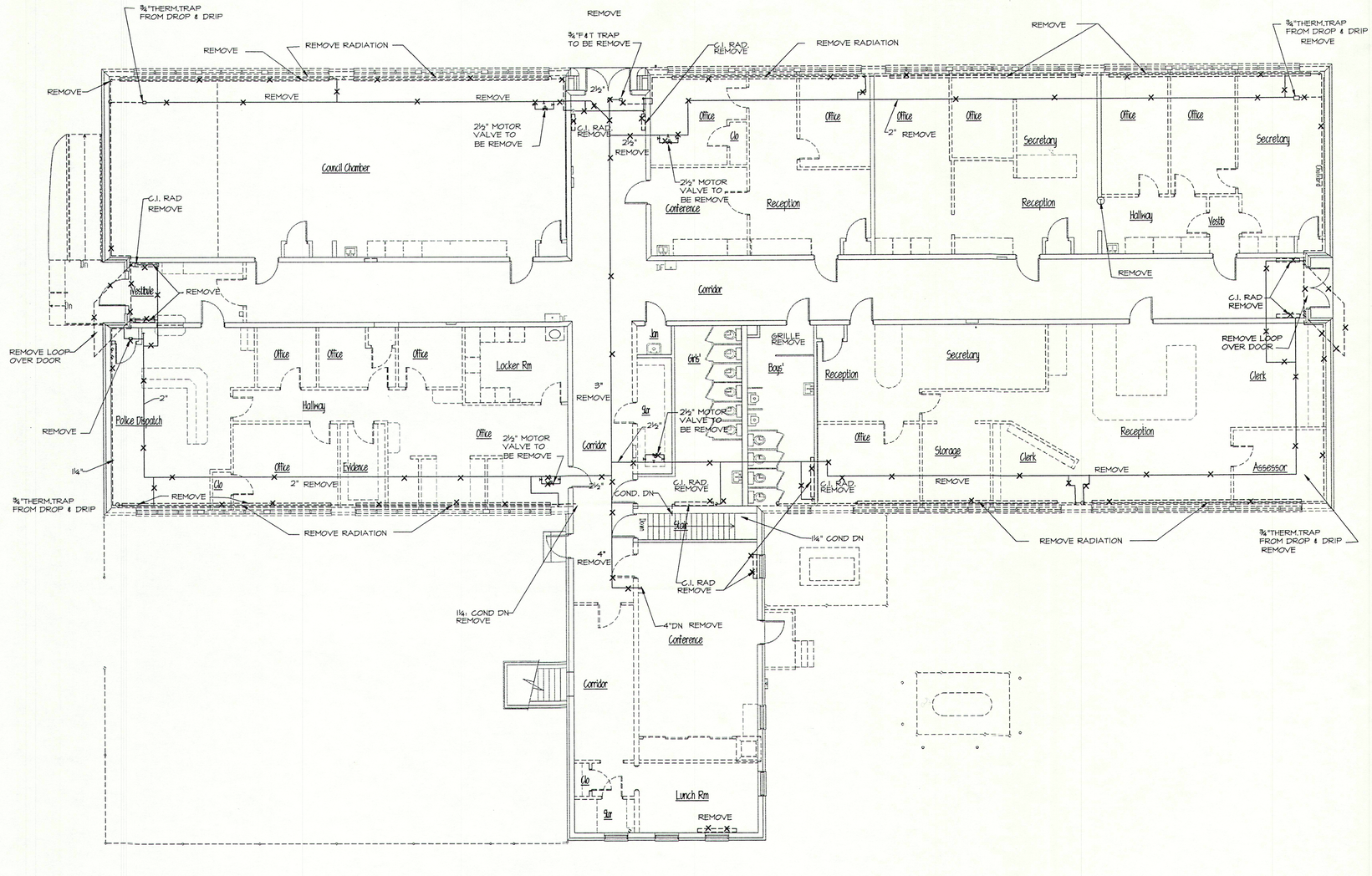
S6



BASEMENT DEMOLITION PLAN

SCALE: ⅛" = 1'-0"



FIRST FLOOR DEMOLITION PLAN

SCALE: ⅛" = 1'-0"

PLAN NORTH MAG

⅛" = 1'-0" (0' 2' 4' 6' 8' 16' 24' 32')

MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
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(207) 846-1441

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ADDITIONS & RENOVATIONS

MECHANICAL

DEMOLITION PLANS

STATE OF MAINE — HERBERT L. POWERS, JR. NO. 2159 — REGISTERED PROFESSIONAL ENGINEER

DATE: 29 AUG, 1997
REVISIONS:

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DRAWING NO.

MD.1

G:\DROWNE\DEMO Fri Aug 29 11:42:14 1997 Mechanical Systems Engineers, Inc.

UNIT HEATER SCHEDULE

TAG	TYPE	AREA SERVED	MBH	GPM	CFM	HP	RPM	ELECTRIC	REMARKS
CUH-1	CABINET	LOBBY 119	49.8	5.0	610	.12	1080	115-60-1Φ	VERTICAL
CUH-2	CABINET	CORR. 110	31.8	3.2	380	.06	1080	115-60-1Φ	VERTICAL
CUH-3	CABINET	VEST 130	31.8	3.2	380	.06	1080	115-60-1Φ	VERTICAL SEMI RECESSED
CUH-4	CABINET	CORR. 111	31.8	3.2	380	.06	1080	115-60-1Φ	VERTICAL
CUH-5	CABINET	BOYS' 113	15.9	1.6	240	.07	1480	115-60-1Φ	VERTICAL
CUH-6	CABINET	GIRLS'114	15.9	1.6	240	.07	1480	115-60-1Φ	VERTICAL
CUH-7	CABINET	MULTI-USE 127	49.6	5.0	610	.12	1080	115-60-1Φ	HORIZONTAL SURFACE

DUCT REHEAT COIL SCHEDULE

TAG	TYPE	SIZE	CFM	EAT	LAT	EWT	MBH	GPM	WPD	APD	REMARKS
DHC-1	CL.RM. 101	24"x12"	960	60	90	180	31.2	3.1	.85	.11	
DHC-2	CL.RM. 102	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-3	CL.RM. 103	24"x12"	1000	60	90	180	32.5	3.3	.92	.09	
DHC-4	CL.RM. 104	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-5	ADMIN. 105	18"x12"	800	60	90	180	26	2.6	.55	.14	
DHC-6	CL.RM. 106	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-7	TEACHERS RM. 107	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-8	CL.RM. 108	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-9	CL.RM. 109	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-10	CORR. 111	24"x12"	1000	60	90	180	32.5	3.3	.92	.09	
DHC-11	CL.RM. 120	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-12	CL.RM. 121	18"x12"	880	60	90	180	28.6	2.9	.65	.17	
DHC-13	CL.RM. 129	18"x12"	920	60	90	180	29.9	2.9	.06	.24	
DHC-14	CORR. 122	18"x12"	800	60	90	180	26	2.6	.55	.14	
DHC-15	CL.RM. 118	24"x12"	1300	60	90	180	42.3	4.2	1.47	.2	

FAN SCHEDULE

TAG	AREA SERVED	TYPE	CFM	SP	RPM	HP	ELECTRIC	REMARKS
RF-1	MULTI-PORPOSE 126	CABINET	4200	1.2	949	2.0	240-60-1Φ	INTERLOCK w/HV-1
RF-2	ADDITION CL.RMS	CABINET	3500	1.1	886	1.5	240-60-1Φ	INTERLOCK w/HV-2
RF-3	EXISTING BLD'G	CABINET	5020	1.0	774	2.0	240-60-1Φ	INTERLOCK w/HV-3
RF-4	EXISTING BLD'G	CABINET	5320	1.0	791	3.0	240-60-1Φ	INTERLOCK w/HV-4
EF-1	BOYS' 113, GIRLS'114,JAN.116	ROOF CENT.	1000	.75	1430	1/2	240-60-1Φ	OPERAT. FROM LIGHT SWITCH
EF-2	TOILET 124,125	IN-LINE	200	.375	1625	165 watts	120-60-1Φ	OPERAT. FROM LIGHT SWITCH
EF-3	MULTI-USE 127	IN-LINE	1000	.375	1375	1/4	120-60-1Φ	OPERAT. FROM MANUAL SWITCH

HEATING & VENTILATING UNIT SCHEDULE

UNIT TAG	AREA SERVED	CFM	ESP	HEATING COIL							MIN. O.A.	MOTOR HP	FAN RPM	ELECTRIC	REMARKS
				FV	MBH	EAT	LAT	EWT	GPM	WPD					
HV-1	MULTI-PORPOSE 126	4200	1.7	560	287	27	90	180	28.7	.6	50%	3	1074	240V-60-1Φ	HORIZONTAL FLOOR MOUNTED
HV-2	ADDITION CL.RMS	3500	1.4	467	125.3	27	60	180	12.5	.16	50%	2.0	950	240V-60-1Φ	HORIZONTAL FLOOR MOUNTED
HV-3	EXISTING BLD'G	5020	1.7	528	179.7	27	60	180	17.9	.29	50%	3.0	928	240V-60-1Φ	HORIZONTAL FLOOR MOUNTED
HV-4	EXISTING BLD'G	5320	1.7	545	190.4	27	60	180	19	.3	50%	5	1248	240V-60-1Φ	HORIZONTAL FLOOR MOUNTED

SYMBOLS AND ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AP	ACCES PANEL
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMP. CONTROL
AV	AUTOMATIC VENT
B	BOILER
BD	BACKDRAFT DAMPER
BJ	BAR JOIST
BV	BALANCING VALVE
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
D	DRAIN
DHC	DUCT HEATING COIL
DIFF	DIFFUSER
DIW	DOWN IN WALL
DO	DRAW-OFF
DS	DUCT SILENCER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECG	EXHAUST CEILING GRILLE
ECR	EXHAUST CEILING REGISTER
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWG	EXHAUST WALL GRILLE
EWR	EXHAUST WALL REGISTER
EWT	ENTERING WATER TEMPERATURE
FC	FLEXIBLE CONNECTOR
FV	FACE VELOCITY
GC	GENERAL CONTRACTOR
GV	GATE VALVE
HC	HEATING CONTRACTOR
HD	HEAVY DUTY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
H&V IER	HEATING & VENTILATING INVERTED ECCENTRIC REDUCER
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LWCO	LOW WATER CUT-OFF
MD	MANUAL DAMPER
MOD	MOTOR OPERATED DAMPER
MV	MANUAL VENT
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OD	OUTSIDE DIMENSION
OS&Y P	OUTSIDE SCREW & YOKE PUMP
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
R	RETURN
RA	RETURN AIR
RCR	RETURN CEILING REGISTER
RF	RETURN FAN
RV	RELIEF VALVE
RWR	RETURN WALL REGISTER
RWV	RESET WATER VALVE
S	SUPPLY
SA	SUPPLY AIR
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SWR	SUPPLY WALL REGISTER
T	THERMOMETER
TC	TEMPERATURE CONTROL
TCP	TEMPERATURE CONTROL PANEL
TDV	TRIPLE DUTY VALVE
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TV	TURNING VANE
UC	UNDERCUT
V	VENT
WPD	WATER PRESSURE DROP
WTD	WATER TEMPERATURE DROP
WTR	WATER TEMPERATURE RISE

WATER SUPPLY PIPING
WATER RETURN PIPING
PIPING TO BE REMOVED
PIPE ANCHOR
UNION
FLANGE
GATE VALVE
OS&Y GATE VALVE
GLOBE VALVE
CHECK VALVE
BUTTERFLY VALVE
BALANCING VALVE
TRIPLE DUTY VALVE
FUSIBLE SAFETY VALVE
CONTROL VALVE (TWO WAY)
CONTROL VALVE (THREE WAY)
PRESSURE REDUCING VALVE
BALL VALVE
INVERTED ECCENTRIC REDUCER
THERMOSTSAT
THERMOSTAT WITH GUARD
MANUAL DAMPER
FLEXIBLE DUCT

GENERAL NOTES

1. HVAC Contractor shall coordinate work with all other trades.
2. All piping and ductwork shall be run concealed and on warm side of building insulation unless noted otherwise.
3. All piping and ductwork is shown diagrammatically. Exact locations are to be determined in the field.
4. All duct sizes indicated are sheet metal (outside) dimensions.
5. All cutting and patching shall be provided by the General Contractor.
6. All square elbows in ductwork SHALL HAVE airfoil turning vanes.
7. Refer to reflected ceiling plan for exact location of all ceiling registers, grilles and diffusers.
8. All duct coils, fire dampers and motor operated dampers shall have access doors as large as possible up to 12"x12".
9. All dimensions are approximate and are to be field verified.
10. Systems are designed for 180 degree water leaving the boilers with a 20 degree drop throughout the system (170 degree AWT).
11. All reductions in water pipe sizes in the direction of flow shall be accomplished with inverted eccentic reducers. Reducing type tee fittings are NOT acceptable.
12. Provide automatic vents at all locations where water piping drops in the direction of flow, at all high points and elsewhere as indicated on the drawings.
13. All removed materials shall remain the property of the owner until such time that the owner's authorized representative has reviewed the removed materials and taken what the owner wishes to retain. All remaining items shall become the property of the contractor and shall be immediately removed from the premisis by the contractor.

DUCT SILENCER SCHEDULE

TAG	CFM	WIDTH	HEIGHT	LENGTH	SP	REMARKS
DS-1	4200	18"	18"	60"	0.18"	18 db ATTENUATION IN OCTAVE BAND 3
DS-2	4200	44"	27"	36"	0.30"	
DS-3	3500	18"	18"	36"	0.30"	
DS-4	3500	44"	27"	36"	0.30"	
DS-5	5020	20"	42"	60"	0.18"	
DS-6	5020	30"	30"	36"	0.30"	
DS-7	5320	56"	30"	36"	0.30"	
DS-8	5320	20"	20"	60"	0.18"	

PUMP SCHEDULE

TAG	TYPE	AREA SERVED	GPM	HEAD	HP	RPM	ELECTRIC	REMARKS
P-1	BASE MOUNTED	HEATING SYSTEM	150	40'	3.0	1750	240V-60-1Φ	PRIMARY
P-2	BASE MOUNTED	HEATING SYSTEM	150	40'	3.0	1750	240V-60-1Φ	STAND-BY

MECHANICAL SYSTEMS ENGINEERS
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10 FOREST FALLS DRIVE
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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

HVAC - NOTES, SYMBOLS, SCHEDULES & ABBREVIATIONS

STATE OF MAINE HERBERT L. POWERS, JR. NO. 2159 REGISTERED PROFESSIONAL ENGINEER

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M1.0

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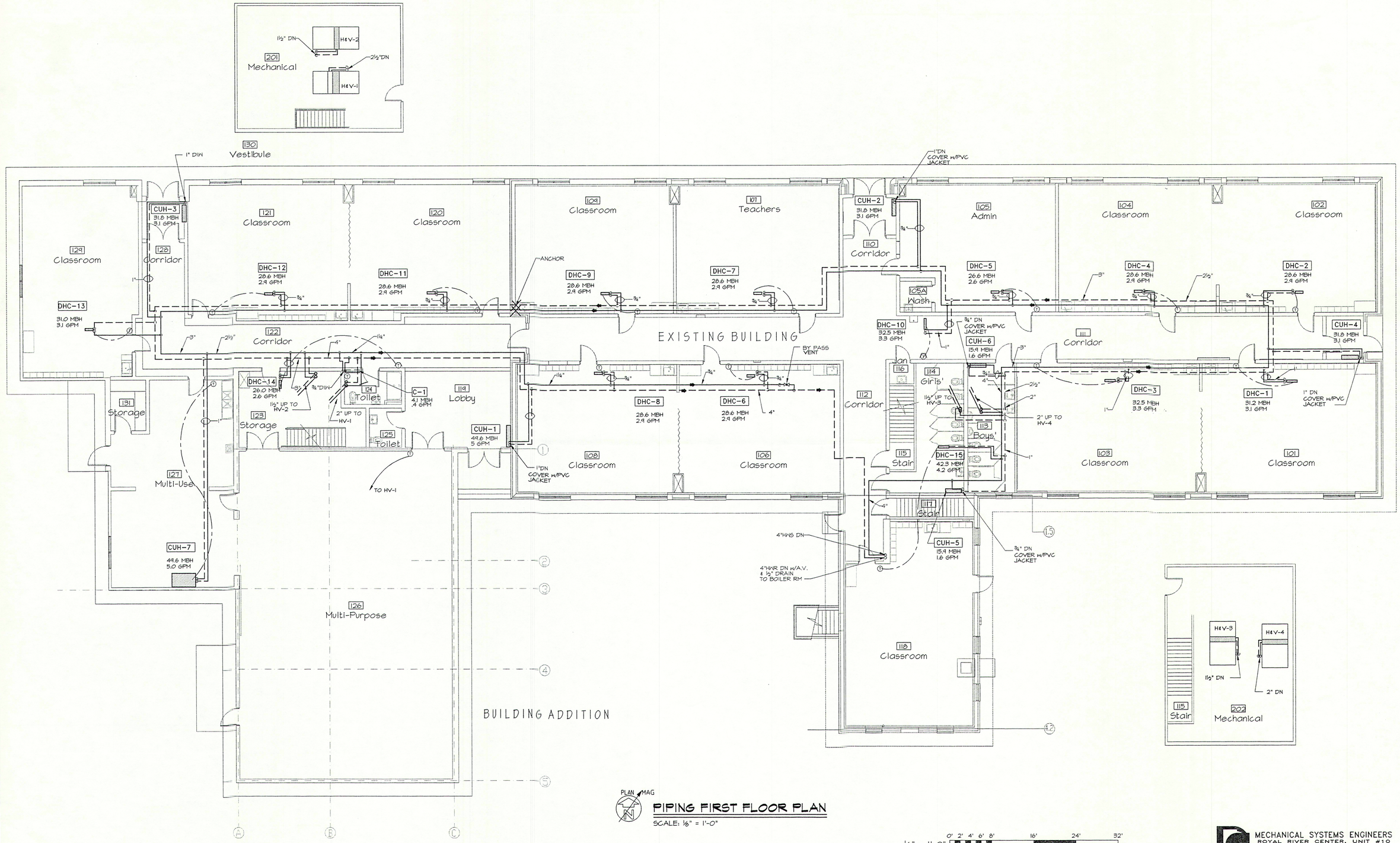

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Drowne Road
Cumberland, Maine

ADDITIONS & RENOVATIONS

HVAC
PIPING FIRST
FLOOR PLAN

STATE OF MAINE
HERBERT L. POWERS, JR.
NO. 2159
REGISTERED PROFESSIONAL ENGINEER

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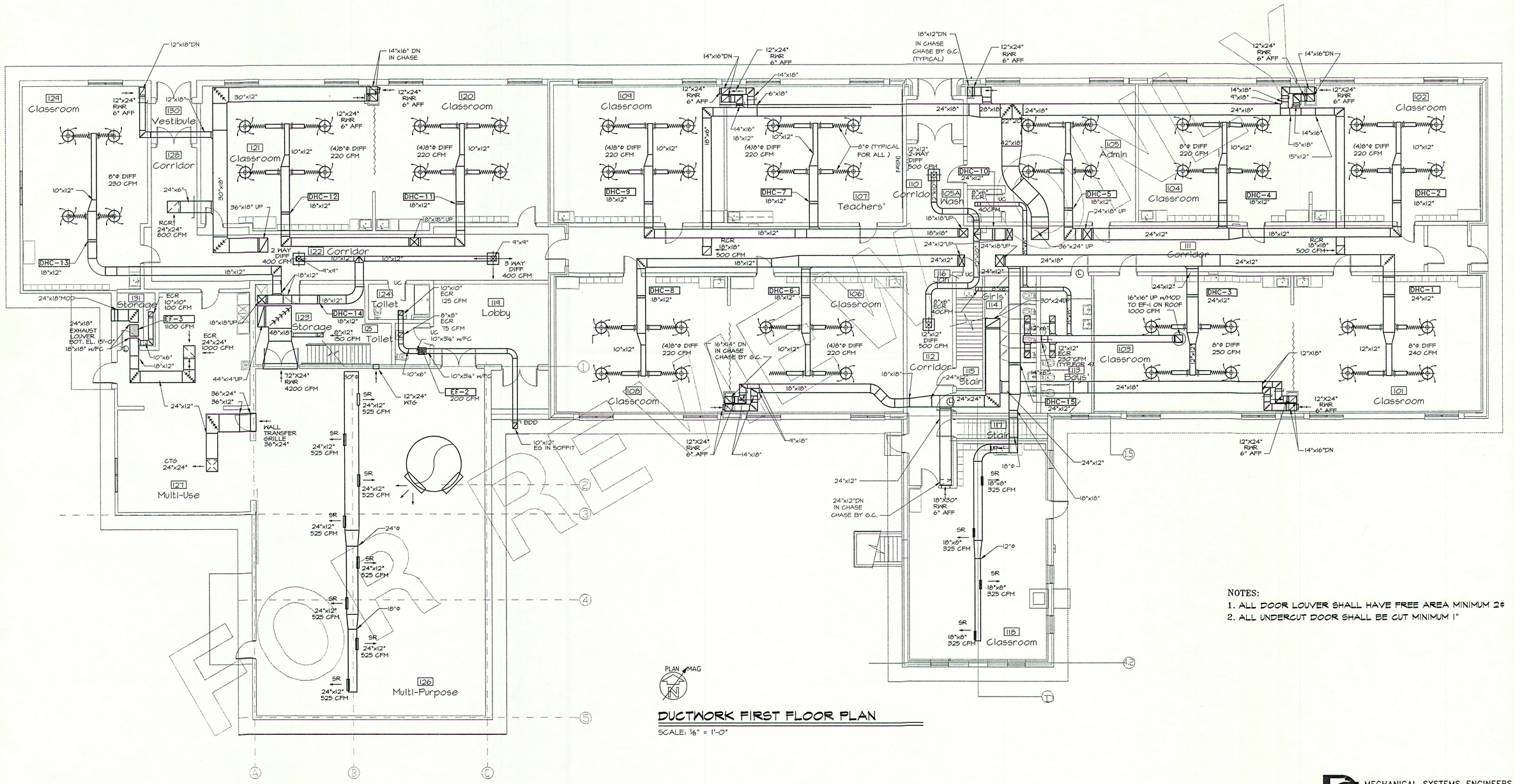

NOTES:
1. ALL DOOR LOUVER SHALL HAVE FREE AREA MINIMUM 2#
2. ALL UNDERCUT DOOR SHALL BE CUT MINIMUM 1"

1/8" = 1'-0" (0' 2' 4' 6' 8' 16' 24' 32')

MECHANICAL SYSTEMS ENGINEERS
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ADDITIONS & RENOVATIONS

HVAC
DUCTWORK
FIRST FLOOR PLAN

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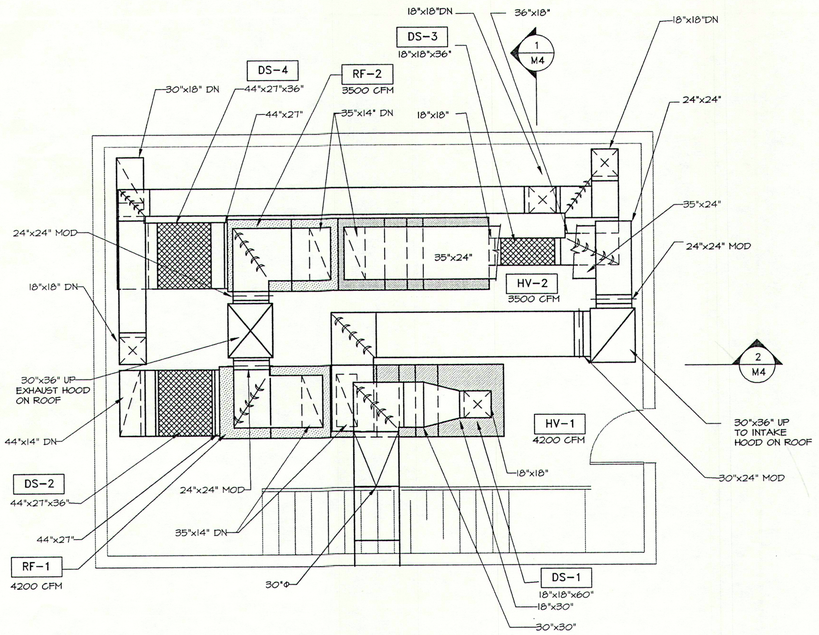
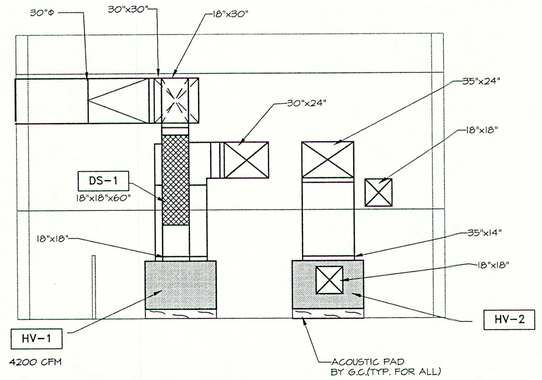


MECHANICAL RM FLOOR PLAN

SCALE: ¼" = 1'-0"



SECTION 1-1

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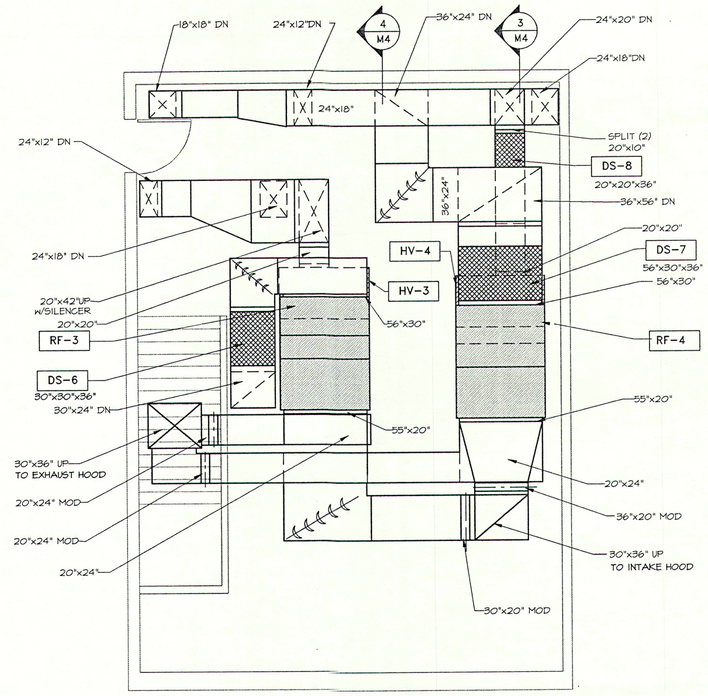

MECHANICAL RM FLOOR PLAN

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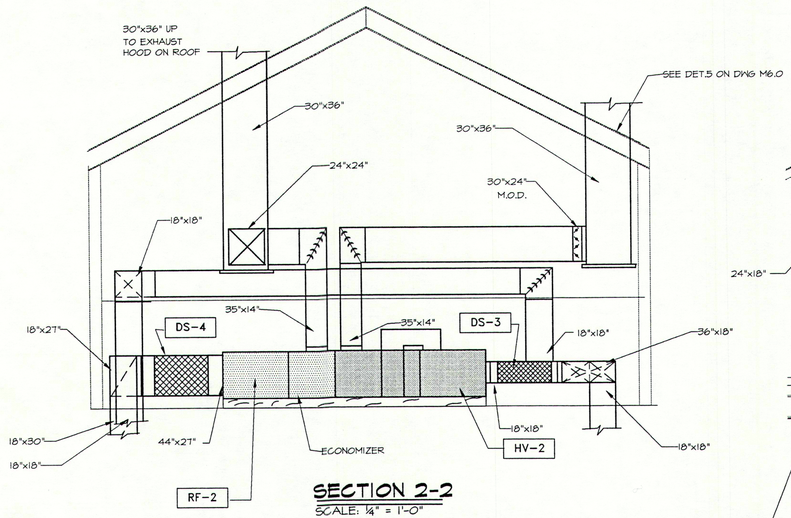

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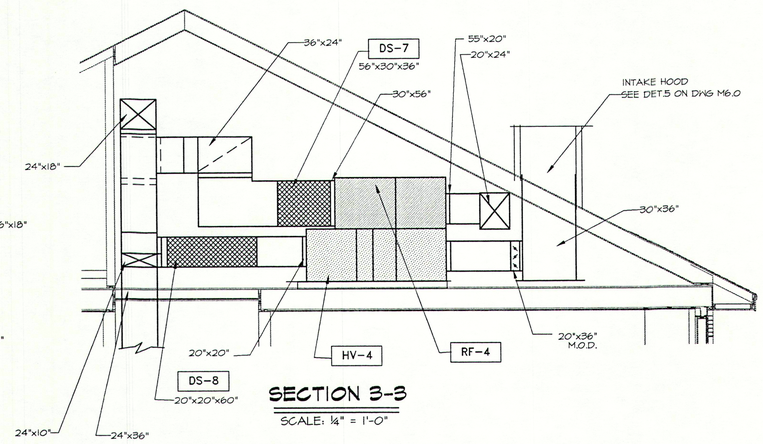

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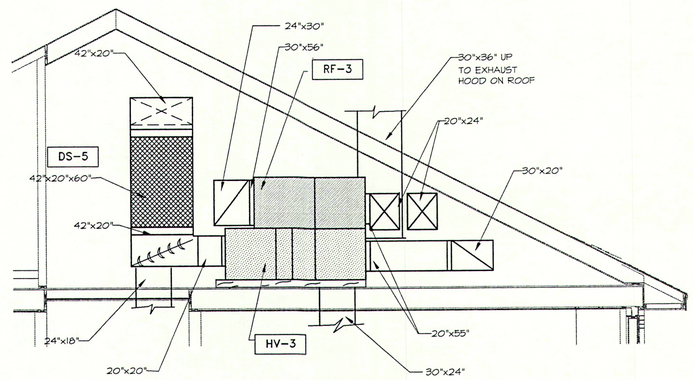

SECTION 4-4

SCALE: ¼" = 1'-0"

¼" = 1'-0" 0' 1' 2' 3' 4' 8' 12' 16'

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ADDITIONS & RENOVATIONS

HVAC
MECHANICAL ROOMS
PLAN AND SECTIONS

STATE OF MAINE
HERBERT L. POWERS, JR. NO. 2159
REGISTERED PROFESSIONAL ENGINEER

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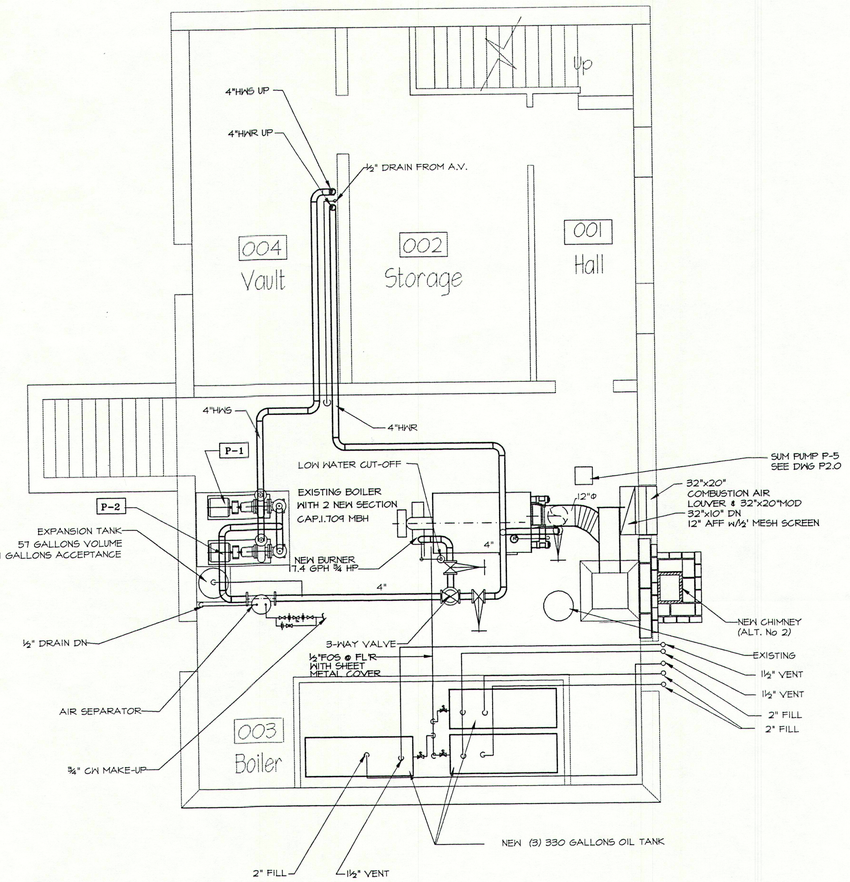
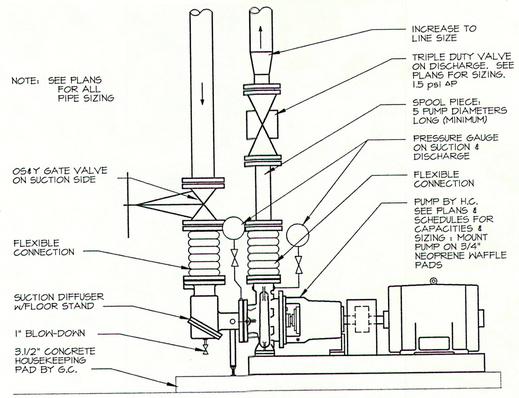


1 / M5.0 **BASEMENT FLOOR PLAN**

SCALE:¼"=1'-0"



2 / M5.0 **BASE MOUNTED PUMP DETAIL**

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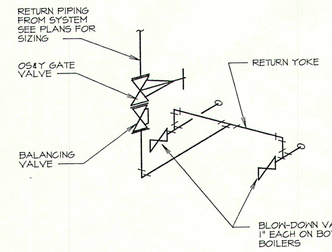

3 / M5.0 **BOILER RETURN YOKE DETAIL**

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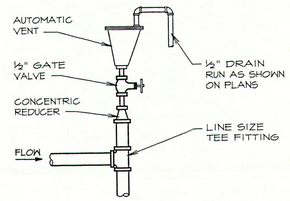

4 / M5.0 **AUTOMATIC VENT**

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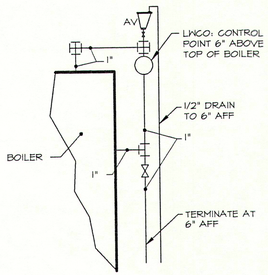

5 / M5.0 **HOT WATER BOILER LOW WATER CUT-OFF DETAIL**

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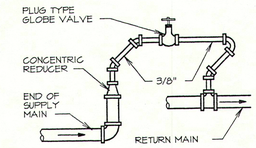

6 / M5.0 **BYPASS VENT**

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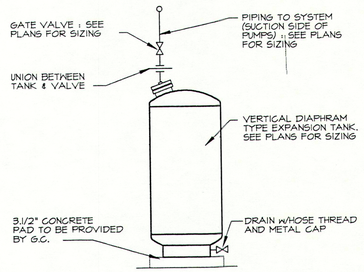

7 / M5.0 **DIAPHRAGM TYPE EXPANSION TANK**

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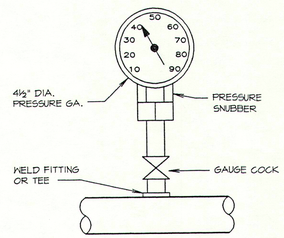

8 / M5.0 **WATER PRESSURE GAUGE DETAIL**

NO SCALE

¼" = 1'-0"

0' 1' 2' 3' 4' 8' 12' 16'

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Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

HVAC
BOILER ROOM PLAN
& DETAILS

STATE OF MAINE · REGISTERED PROFESSIONAL ENGINEER · HERBERT L. POWERS, JR. NO. 2159

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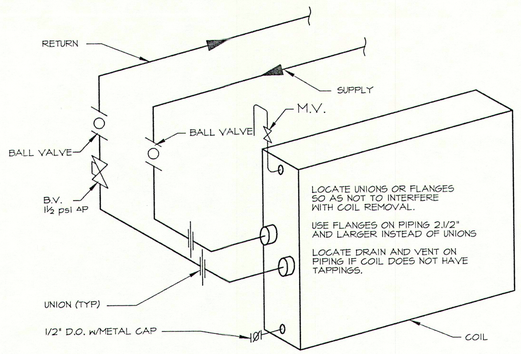
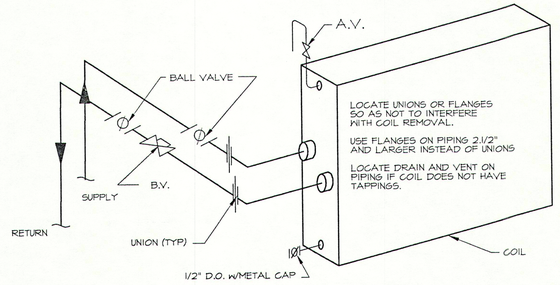


THIS DETAIL IS GENERIC AND IS INTENDED TO INDICATE THE ARRANGEMENT OF VALVING. REFER TO PLANS FOR EXACT CONFIGURATION OF PIPING AND PIPE SIZING.

1 / M6.0 **HOT WATER DUCT COIL PIPING**

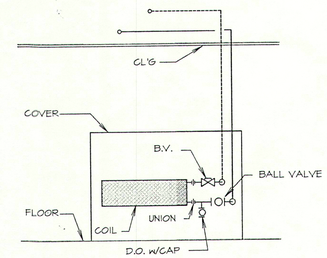
NO SCALE



THIS DETAIL IS GENERIC AND IS INTENDED TO INDICATE THE ARRANGEMENT OF VALVING. REFER TO PLANS FOR EXACT CONFIGURATION OF PIPING AND PIPE SIZING.

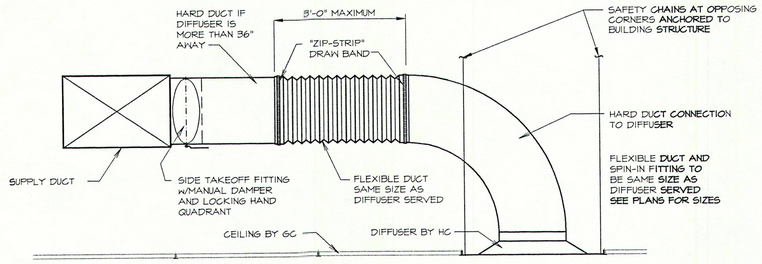
2 / M6.0 **H&V UNIT HOT WATER COIL PIPING**

NO SCALE



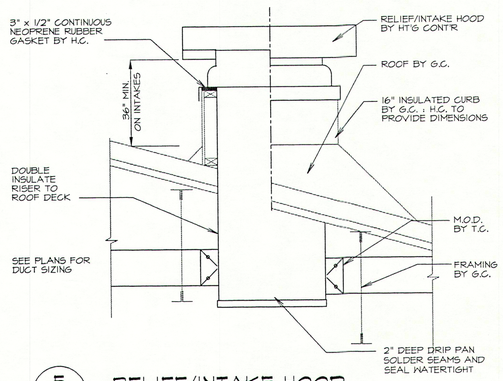
3 / M6.0 **DOWNFEED CABINET UNIT HEATER**

NO SCALE



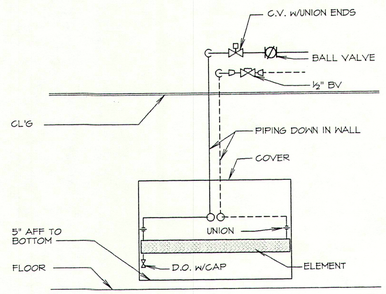
4 / M6.0 **FLEXIBLE DUCT & DIFFUSER CONNECTION DETAIL**

NO SCALE



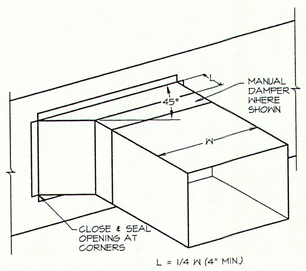
5 / M6.0 **RELIEF/INTAKE HOOD**

NO SCALE



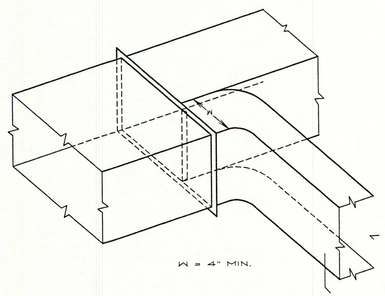
6 / M6.0 **DOWNFEED CONVECTOR**

NO SCALE



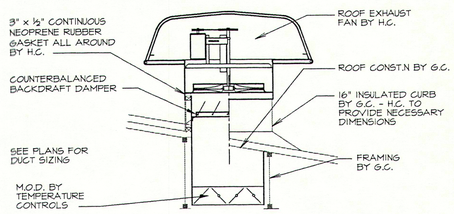
7 / M6.0 **BRANCH DUCT CONNECTION**

NO SCALE



8 / M6.0 **PARALLEL FLOW DUCT BRANCH**

NO SCALE



9 / M6.0 **ROOF EXHAUST FAN #_**

NO SCALE

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

HVAC

DETAILS

STATE OF MAINE · HERBERT L. POWERS, JR. NO. 2159 · REGISTERED PROFESSIONAL ENGINEER

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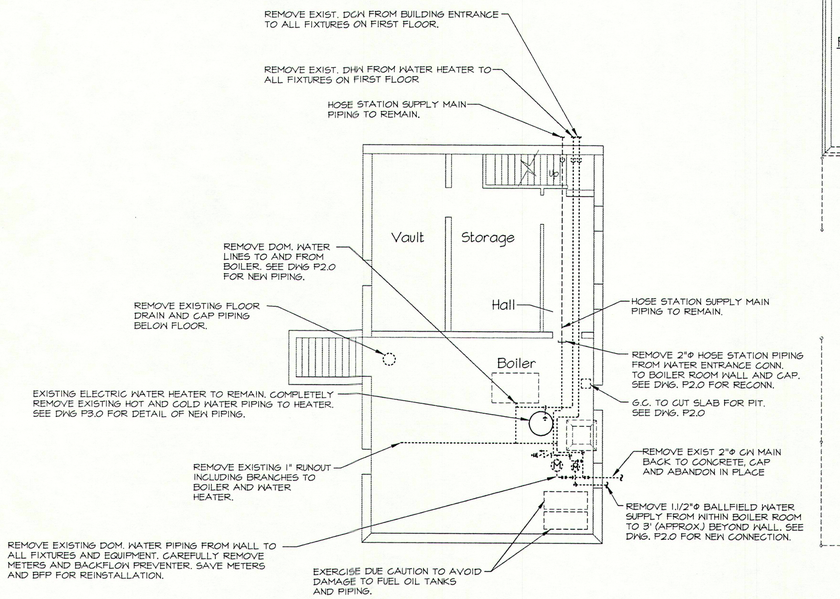
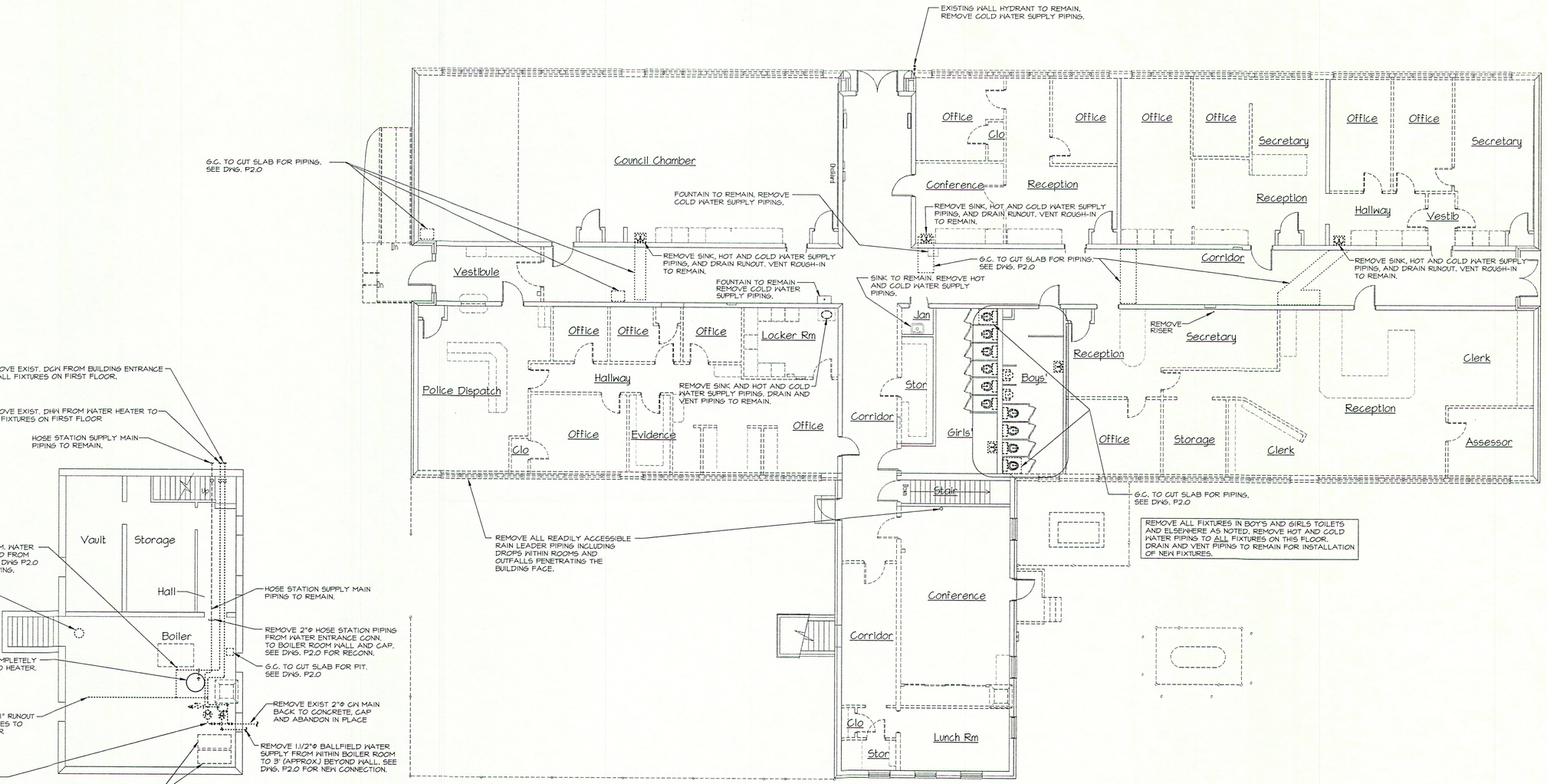


PLAN NORTH MAG

BASEMENT DEMO PLAN

SCALE: ⅛" = 1'-0"



REMOVE ALL FIXTURES IN BOYS AND GIRLS TOILETS AND ELSEWHERE AS NOTED, REMOVE HOT AND COLD WATER PIPING TO ALL FIXTURES ON THIS FLOOR. DRAIN AND VENT PIPING TO REMAIN FOR INSTALLATION OF NEW FIXTURES.

PLAN NORTH MAG

FIRST FLOOR DEMO PLAN

SCALE: ⅛" = 1'-0"

⅛" = 1'-0" 0' 2' 4' 6' 8' 16' 24' 32'

MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

PLUMBING

DEMOLITION PLAN

STATE OF MAINE · HERBERT L. POWERS, JR. NO. 2159 · REGISTERED PROFESSIONAL ENGINEER

DATE: 29 AUG, 1997
REVISIONS:

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DRAWING NO.

PD1.0

C:\DROWNE\DROWN_01 Fri Aug 29 10:41:53 1997 Mechanical Systems Engineers, Inc.

GENERAL NOTES

1. ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE STATE OF MAINE INTERNAL PLUMBING RULES AS WELL AS BOCA PLUMBING CODE OR THESE PLANS, WHICHEVER IS MORE STRICT.
2. ALL PIPING IS SHOWN DIAGRAMATICALLY AND EXACT LOCATIONS SHALL BE FIELD DETERMINED. EXTENSIVE DEVIATIONS FIRST REQUIRE ENGINEER APPROVAL.
3. CAREFULLY COORDINATE THE LOCATION OF ALL PIPING AND EQUIPMENT WITH THE OTHER TRADES TO AVOID SPACE CONFLICTS. PRIORITY SHALL BE GIVEN TO HEATING EQUPMENT AND DUCTWORK, THEN PLUMBING EQUIPMENT, THEN GRAVITY DRAINAGE PIPING, THEN PIPING AND CONDUIT BASED ON DECENDING ORDER OF SIZE. INSTALL IN A MANNER TO CONSERVE SPACE FOR OTHER TRADES, AND FUTURE WORK. FAILURE TO COORDINATE WILL RESULT IN THE PLUMBING CONTRACTOR RELOCATING HIS PIPING AT HIS EXPENSE.
4. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO PLUMBING FIXTURES PROVIDED BY OTHER CONTRACTORS.
5. REFER TO APPROPRIATE DIAGRAMS FOR PIPE SIZES NOT SHOWN ON PLANS. PIPE SIZES ARE NOMINAL (NOT O.D.) UNLESS SPECIFICALLY NOTED OTHERWISE.
6. ALL PIPING SHALL RUN CONCEALED ABOVE CEILINGS, IN WALLS, IN SOFFITS AND IN CHASES UNLESS NOTED OTHERWISE.
7. ALL PLUMBING FIXTURES SHALL BE BACK VENTED.
8. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT APPROVAL OF THE ARCHITECT.
9. ALL PLUMBING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE . ALL PIPING SHALL BE SUPPORTED FROM THE TOP CHORD OF BAR JOISTS.
10. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS.
11. ALL PIPING THROUGH ROOFS, MASONRY WALLS AND PARTITIONS SHALL HAVE STEEL PIPE SLEEVES. OPENINGS BETWEEN PIPES AND SLEEVES SHALL BE CAULKED AND SEALED SMOKE AND WATER TIGHT.
12. ALL WALL FIXTURES SHALL BE CARRIER MOUNTED UNLESS OTHERWISE SPECIFIED.
13. ALL DOMESTIC WATER PIPING, UNLESS BURIED OR SPECIFIED OTHERWISE SHALL BE INSULATED.
14. RUN ALL WATER PIPING ON WARM SIDE OF BUILDING INSULATION. NO WATER LINES SHALL BE RUN IN EXTERIOR WALLS, UNLESS SPECIFICALLY INDICATED.
15. PROVIDE SHOCK ABSORBERS AS SHOWN ON DRAWINGS AND WHERE REQUIRED TO AVOID WATER HAMMER, SIZES SHALL CONFORM TO P.D.I. STANDARDS.
16. PROVIDE DRAW-OFFS AT LOW POINTS IN DOMESTIC WATER PIPING AND PITCH PIPING TO DRAIN.
17. HIGH QUALITY DIELECTRIC INSULATING FITTINGS SHALL BE USED WHERE PIPE OF DISSIMILAR METALS ARE CONNECTING.
18. ALL SANITARY WASTE PIPING UNDER 4" SHALL PITCH DOWN 1/4" PER L.F. IN DIRECTION OF FLOW UNLESS INDICATED OTHERWISE, 4" AND ABOVE 1/8" PER L.F.
19. PROVIDE ACCESSIBLE CLEANOUTS AT BASE OF ALL STACKS AS SHOWN AND AS OTHERWISE REQUIRED.
20. ALL PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALLS WITH A STEEL SUPPORT BRACKET WITH ADJUSTABLE CLIP.
21. ALL PIPING PENETRATING AT FIRE RATED WALL OR FLOOR SHALL BE CAST IRON OR COPPER TUBING AS PER LIFE SAFETY CODE #101.

DEMOLITION NOTES

1. REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT, AND PIPING AS INDICATED. RETAIN ROUGH-IN AND PIPING WHERE INDICATED.
2. ALL ACCESSIBLE SANITARY/WASTE, VENT, RAINWATER, AND DOMESTIC WATER NOT TO REMAIN IN USE SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED OR PLUGGED AT MAINS.
3. ALL INACCESSIBLE SANITARY/WASTE, VENT, RAINWATER, AND DOMESTIC WATER NOT TO REMAIN IN USE SHALL BE CAPPED OR PLUGGED AIR AND WATER TIGHT IN WALLS OR UNDER SLAB.
4. ALL SIGNIFICANT MATERIALS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER UNTIL SUCH TIME AS THE OWNER HAS REVIEWED THE MATERIALS AND REMOVED ITEMS WHICH HE MAY WISH TO RETAIN. THE REMAINING MATERIALS BECOME THE PROPERTY OF THE PLUMBING CONTRACTOR AND REMOVED FROM THE PREMISES.

SYMBOLS & ABBREVIATIONS

AFF ABOVE FINISHED FLOOR
BFP BACK FLOW PREVENTER
BFG BELOW FINISHED GRADE
COTG CLEANOUT TO GRADE
CW COLD WATER
C&HW COLD & HOT WATER
DAW DROP AT WALL
DIC DROP IN CHASE
DIW DROP IN WALL
DN DOWN
DNAW DOWN AT WALL
DNIC DOWN IN CHASE
DNIW DOWN IN WALL
DO DRAWOFF
EC ELECTRICAL CONTRACTOR
EWH ELECTRIC WATER HEATER
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
FFE FINISHED FLOOR ELEVATION
GC GENERAL CONTRACTOR
GV GATE VALVE
HC HEATING CONTRACOR
HDC HANDICAPPED ACCESSIBLE
HW HOT WATER
L LAVATORY
PP PLUMBING PUMP
PC PLUMBING CONTRACTOR
RAW RISE AT WALL
RIC RISE IN CHASE
RIW RISE IN WALL
S SANITARY
SA SHOCK ABSORBER
SC SITE CONTRACTOR
SK SINK
SPC SPRINKLER CONTRACTOR
TP TRAP PRIMER
TYP TYPICAL
UAW UP AT WALL
UIC UP IN CHASE
UIW UP IN WALL
V VENT
VB VACUUM BREAKER
VIF VERIFY IN FIELD
VTR VENT THRU ROOF
W WASTE
WCO WALL CLEANOUT
WH WALL HYDRANT

SANITARY PIPING BELOW FLOOR
SANITARY PIPING ABOVE FLOOR
INDIRECT WASTE PIPING
VENT PIPING BELOW FLOOR
VENT PIPING ABOVE FLOOR
TRAP PRIMER PIPING ABOVE FLOOR
TRAP PRIMER PIPING BELOW FLOOR
COLD WATER PIPING ABOVE CEILING
COLD WATER PIPING BURIED
110° HOT WATER PIPING ABOVE CEILING
110° HOT WATER RECIRC. PIPING
140° HOT WATER PIPING ABOVE CEILING
140° HOT WATER RECIRC. PIPING
WATER METER
REDUCED PRESSURE BFP
PRESSURE REDUCING VALVE
BALL VALVE
THERMOMETER
DROP/RISE IN LINE
LINE UP TO FLOOR ABOVE
SHOCK ABSORBER
UNION
FLOOR WATER CLOSET
WALL URINAL
WALL LAVATORY
COUNTER S.S. SINK
MOP BASIN
ELECTRIC WATER COOLER
FLOOR DRAIN
FLOOR CLEANOUT
WALL CLEANOUT
F-# FIXTURE/EQUIPMENT NUMBER TAG
HANDICAPPED ACCESSIBLE FIXTURE
P3 DETAIL REFERENCE

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	CW	HW	WASTE	VENT	REMARKS
F-1	WATER CLOSET, ADULT	1"	---	4"	2"	FLOOR MOUNTED, F.V., 1.6 GPF
F-2	WATER CLOSET, HDC, ADULT	1"	---	4"	2"	FLOOR MOUNTED, F.V., 1.6 GPF
F-3	WATER CLOSET, CHILD	1"	---	4"	2"	FLOOR MOUNTED, F.V., 1.6 GPF
F-4	WATER CLOSET, HDC, CHILD	1"	---	4"	2"	FLOOR MOUNTED, F.V., 1.6 GPF
F-5	URINAL, CHILD	1"	---	2"	1.1/2"	WALL MOUNTED, F.V., 1 GPF SEE ARCHITECTURAL ELEVATIONS
F-6	URINAL, HDC, CHILD	1"	---	2"	1.1/2"	WALL MOUNTED, F.V., 1 GPF SEE ARCHITECTURAL ELEVATIONS
F-7	LAVATORY, CHILD	1/2"	1/2"	1.1/2"	1.1/2"	WALL HUNG SEE ARCHITECTURAL ELEVATIONS
F-8	LAVATORY, HDC, CHILD	1/2"	1/2"	1.1/2"	1.1/2"	WALL HUNG, MOUNT SEE ARCHITECTURAL ELEVATIONS
F-9	LAVATORY, ADULT	1/2"	1/2"	1.1/2"	1.1/2"	WALL HUNG SEE ARCHITECTURAL ELEVATIONS
F-10	LAVATORY, HDC, ADULT	1/2"	1/2"	1.1/2"	1.1/2"	WALL HUNG, MOUNT SEE ARCHITECTURAL ELEVATIONS
F-11	NURSES LAVATORY, HDC, ADULT	1/2"	1/2"	1.1/2"	1.1/2"	WALL HUNG, MOUNT SEE ARCHITECTURAL ELEVATIONS
F-12	CLASSROOM SINK, HDC, CHILD	1/2"	1/2"	1.1/2"	1.1/2"	S.S. SINGLE BOWL COUNTER BY G.C.
F-13	TEACHERS SINK, HDC, ADULT	1/2"	1/2"	1.1/2"	1.1/2"	S.S. SINGLE BOWL COUNTER BY G.C.
F-14	HAND WASH-UP SINK	1/2"	1/2"	1.1/2"	1.1/2"	WALL HUNG, GOOSENECK FAUCET S.S.
F-15	POT SINK	(2) 1/2"	(2) 1/2" 180°	2"	1.1/2"	WELECTRIC SANITIZER SINK
F-16	MOP BASIN	1/2"	1/2" 140°	3"	1.1/2"	FLOOR MOUNTED, 24"x36"x10"
F-17	ELECTRIC WATER COOLER, HDC, CHILD	1/2"	---	1.1/2"	1.1/2"	WALL HUNG, ELECTRIC BY EC
F-18	SHOWER, HDC	1/2"	1/2"	2"	1.1/2"	

PUMP SCHEDULE

TAG*	SERVICE	TYPE	GPM	HEAD	HP	ELECTRIC	REMARKS
P-3	DOMESTIC 110°F H.W. RECIRC. SYSTEM	IN-LINE RECIRCULATOR	13	19	1/9	115V/60Hz/1Φ	3/4", POWER BY EC CONTROL BY TCC
P-4	DOMESTIC 140°F HW RECIRC. SYSTEM	IN-LINE RECIRCULATOR	13	19	1/9	115V/60Hz/1Φ	3/4", POWER BY EC CONTROL BY TCC
P-5	BOILER ROOM	SUMP PUMP	10	20	1/4	115V/60Hz/1Φ	20' POWER CORD, OUTLET BY EC

* PUMP TAGS P-1, P-2 ASSIGNED TO HEATING PUMPS

MECHANICAL SYSTEMS ENGINEERS
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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

PLUMBING, NOTES & SCHEDULES

STATE OF MAINE HERBERT L. POWERS, JR. NO. 2159 REGISTERED PROFESSIONAL ENGINEER

DATE: 29 AUG, 1997
REVISIONS:

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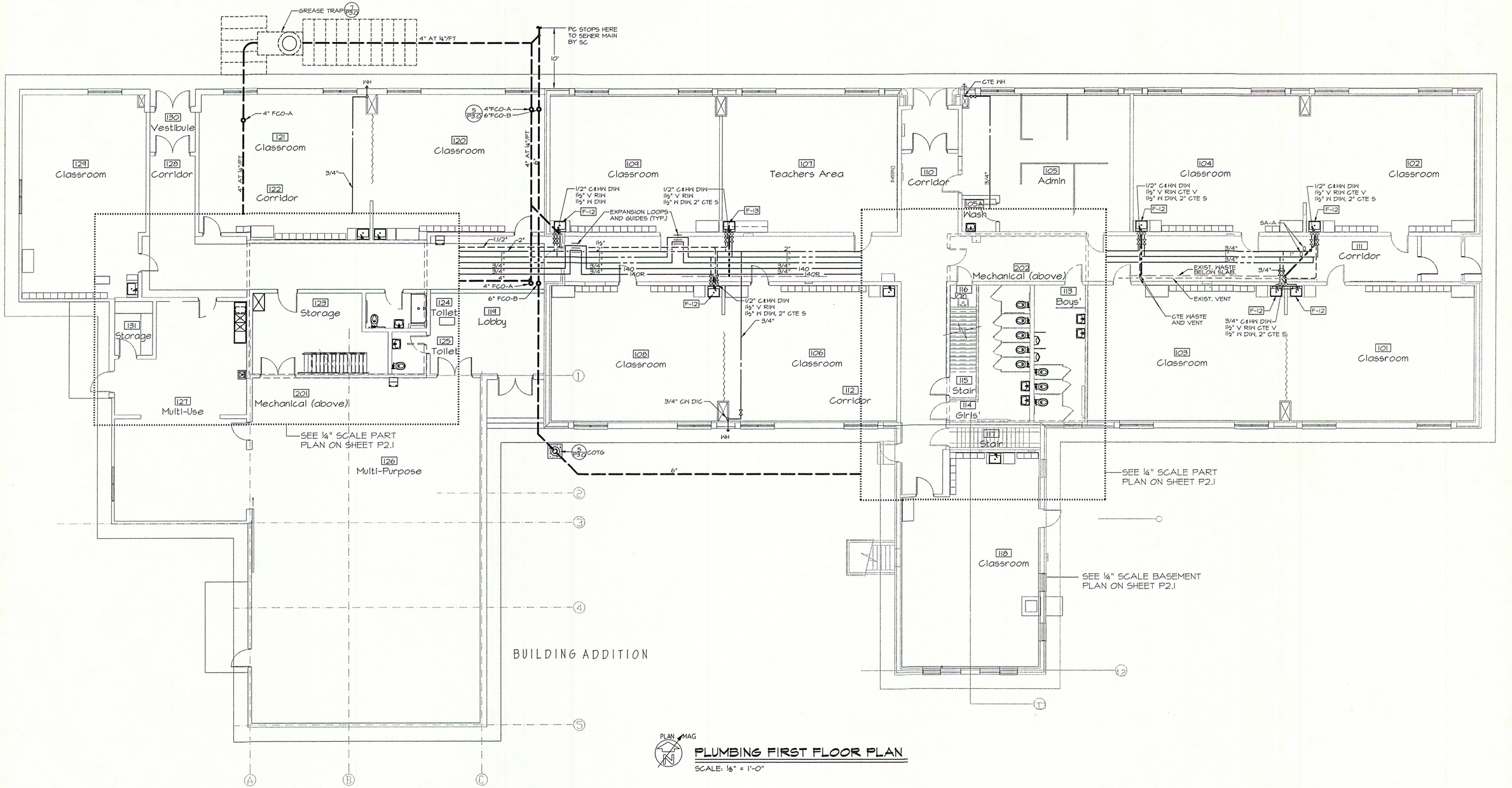

PLAN MAG

PLUMBING FIRST FLOOR PLAN

SCALE: ⅛" = 1'-0"

⅛" = 1'-0" (0' 2' 4' 6' 8' 16' 24' 32')

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ADDITIONS & RENOVATIONS

PLUMBING FIRST FLOOR PLAN

STATE OF MAINE HERBERT L. POWERS, JR. NO. 2159 REGISTERED PROFESSIONAL ENGINEER

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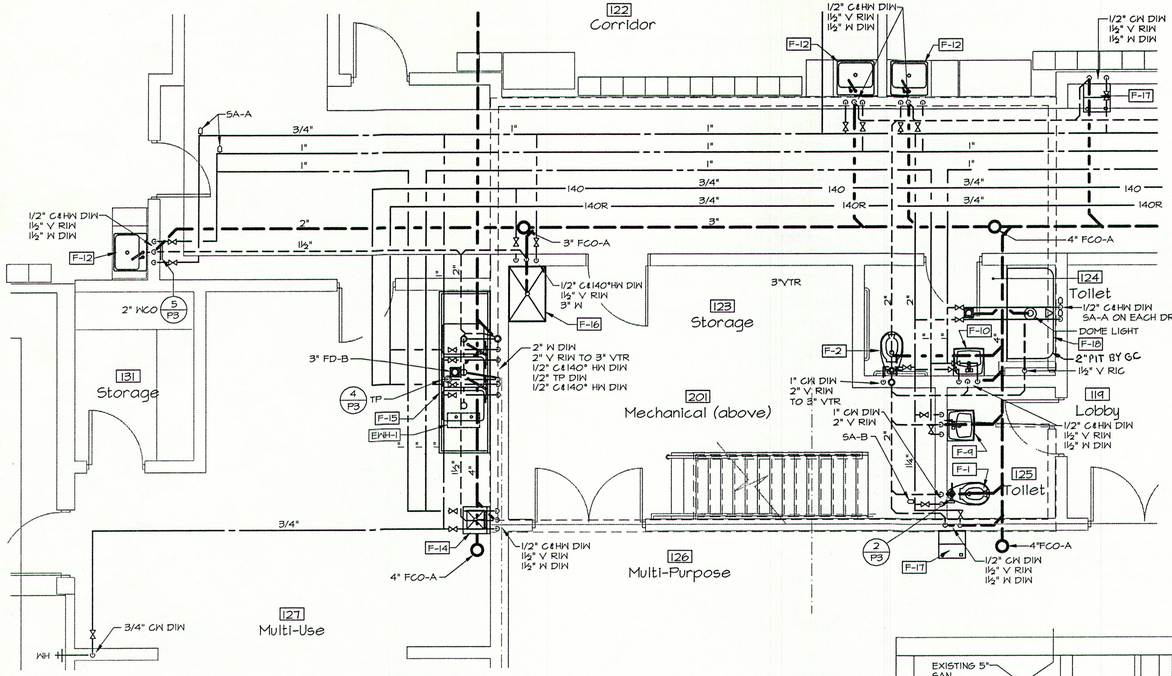
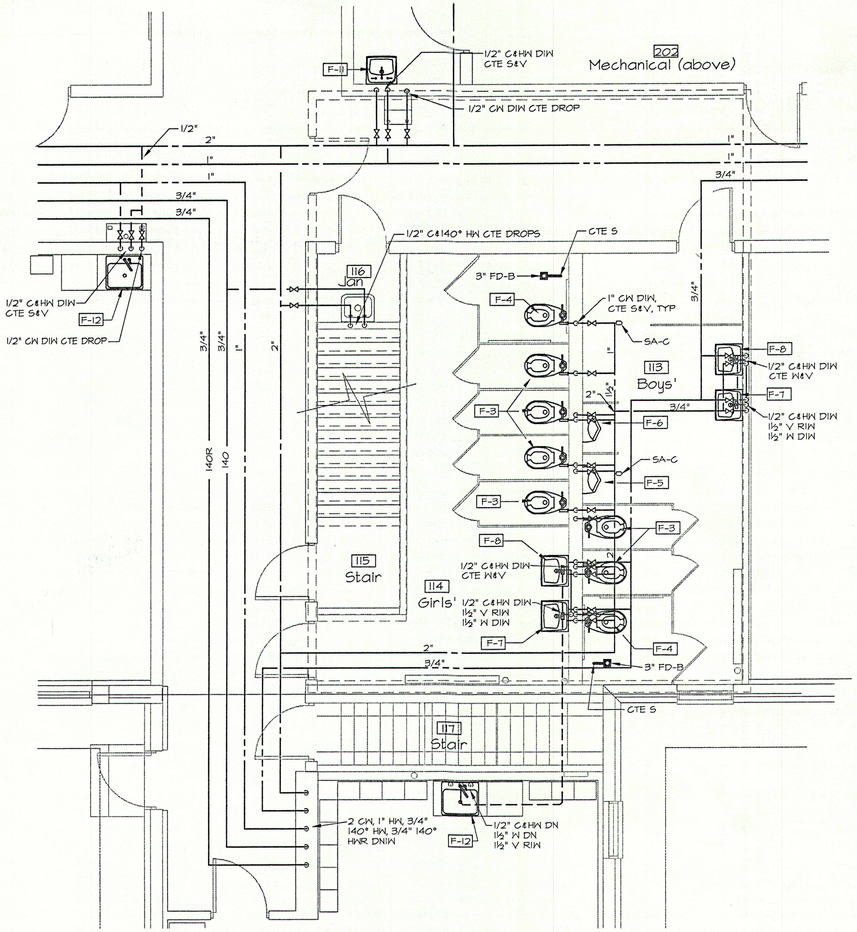


PLAN MAG

PLUMBING PART PLAN

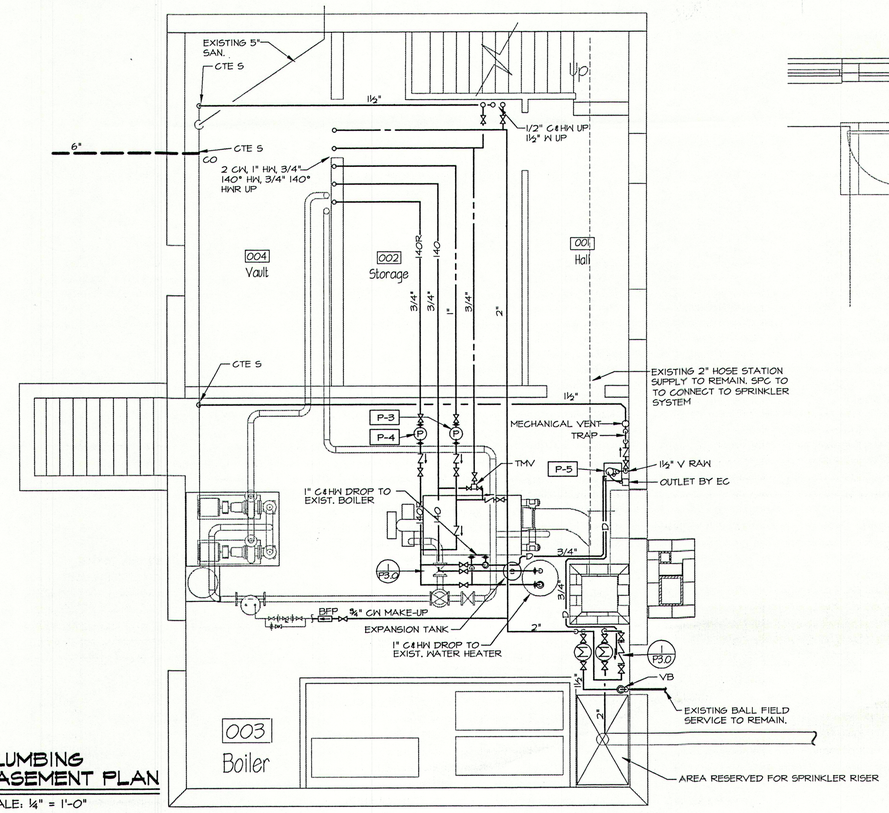
SCALE: ¼" = 1'-0"



PLAN MAG

PLUMBING PART PLAN

SCALE: ¼" = 1'-0"



PLAN MAG

PLUMBING BASEMENT PLAN

SCALE: ¼" = 1'-0"

0' 1' 2' 3' 4' 8' 12' 16'

¼" = 1'-0"

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ADDITIONS & RENOVATIONS

BASEMENT PLUMBING AND PART PLANS

STATE OF MAINE HERBERT L. POWERS, JR. NO. 2159 REGISTERED PROFESSIONAL ENGINEER

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P2.1

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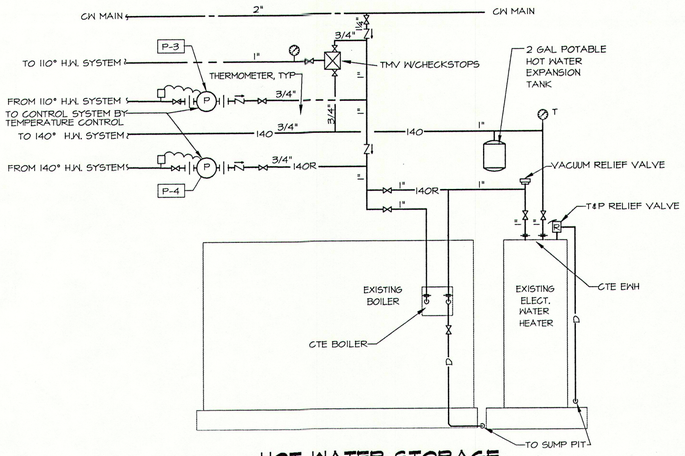
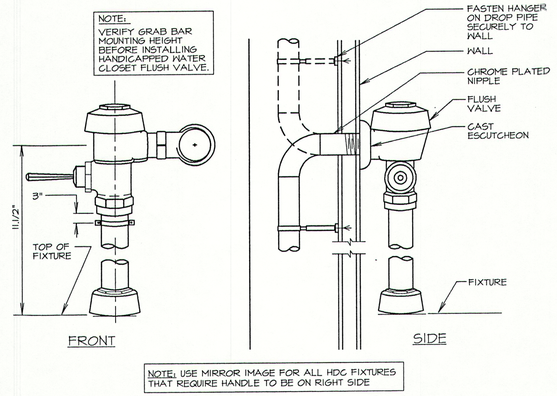


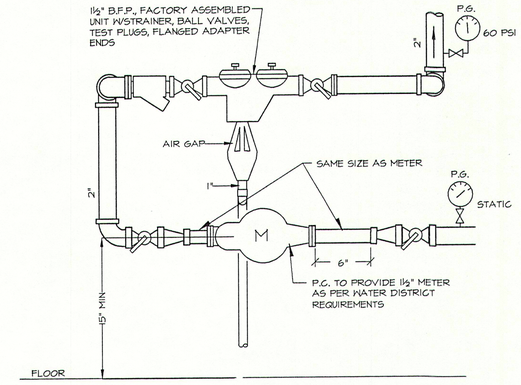
1 / P3.0 **HOT WATER STORAGE TANK AND SYSTEM DIAGRAM**

SCALE: NONE



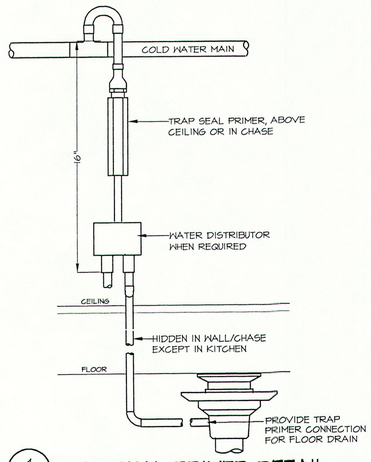
2 / P3.0 **FLUSH VALVE DETAIL**

SCALE: NONE



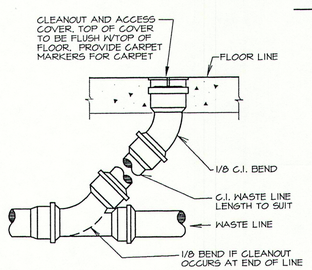
3 / P3.0 **WATER ENTRANCE DETAIL**

SCALE: NONE

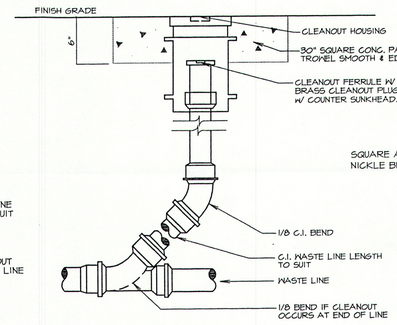


4 / P3.0 **TRAP SEAL PRIMER DETAIL**

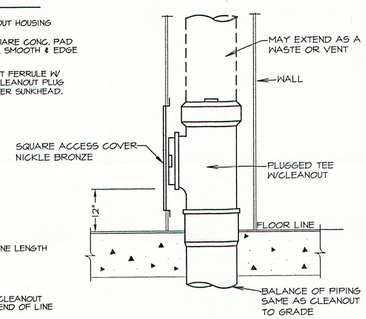
SCALE: NONE



FLOOR CLEANOUT (FCO)



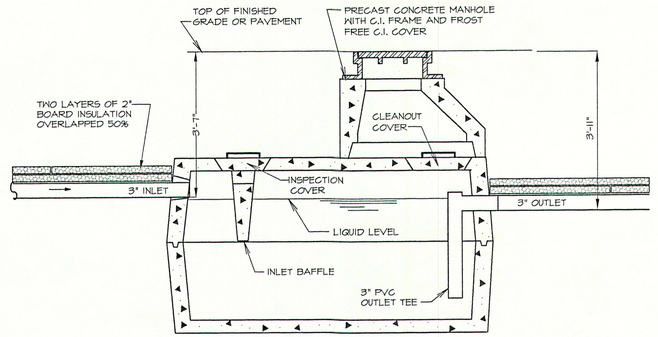
CLEANOUT TO GRADE (COTG)



WALL CLEANOUT (WCO)

5 / P3.0 **CLEANOUT DETAILS**

SCALE: NONE



7 / P3.0 **GREASE TRAP DETAIL**

SCALE: NONE

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ADDITIONS & RENOVATIONS

PLUMBING

DETAILS

STATE OF MAINE HERBERT L. POWERS, JR. NO. 2159 REGISTERED PROFESSIONAL ENGINEER

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RECEPTACLE OUTLETS

LETTER IS CIRCUIT CONTROL GROUP.
"42" INDICATES MOUNTED AT 42" A.F.F.
"GF" INDICATES GROUND FAULT OUTLET (PROTECTS DOWNSTREAM RECEPTACLES ON SAME CIRCUIT.) ADJUST POSITION TO MINIMIZE CUT OF BLOCK AND TILE.
MOUNT WITH GROUND TERMINAL AT TOP.

- SINGLE RECEPTACLE OUTLET NEMA 5-20R, HEAVY DUTY
- DUPLEX RECEPTACLE OUTLET NEMA 5-20R, HEAVY DUTY
- SS — SURGE SUPRESSION DUPLEX RECP. NEMA 5-20R, HEAVY DUTY.
- QUADRUPLEX RECEPTACLE OUTLET (DOUBLE DUPLEX) NEMA 5-20R, HEAVY DUTY
- RGE — RANGE OUTLET NEMA 14-50R ("D" INDICATES DRYER OUTLET NEMA 14-30R)
- DW — SPECIAL PURPOSE CONNECTION LETTER(S) BESIDE SYMBOL INDICATES ACTUAL EQUIPMENT SERVED.
- FLOOR DUPLEX RECEPTACLE OUTLET W/ COVER. NEMA 5-20R
- PLUGMOLD WITH SINGLE NEMA 5-20R OUTLETS AS SHOWN. OUTLETS SHALL BE CIRCUITED ALTERNATELY. WALL MOUNT AS SHOWN ON THE DWG'S.
- W — TELEPHONE OUTLET MTD. 18" A.F.F. P = PAY PHONE WALL MTD. 54" A.F.F.
- FLOOR TELEPHONE OUTLET
- TV — TELEVISION OUTLET. 18" A.F.F.
- N — COMPUTER NETWORK OUTLET MTD. 18" A.F.F.

SWITCHES / CONTROLS

SWITCHES LOCATED IN THE SAME AREA SHALL BE GANGED UNDER COMMON PLATE WHENEVER PRACTICAL, GROUP SWITCHES, THERMOSTATS ETC. TOGETHER. SWITCHES SHALL BE LOCATED ON STRIKE SIDE OF DOOR. ADJUST TO MINIMIZE CUT OF BLOCK OR TILE. LETTER IS SWITCH CONTROL GROUP.

- $ — SINGLE POLE SWITCH
- $2 — DOUBLE POLE SWITCH
- $3 — THREE-WAY SWITCH
- $4 — FOUR-WAY SWITCH
- $D — DIMMER SWITCH, PROVIDE SWITCH FOR FIXTURES ACTUALLY SERVED.
- $K — KEY OPERATED SWITCH
- $PL — SWITCH & PILOT LAMP
- $HR — HORSE POWER RATED SWITCH
- $LV — LOW VOLTAGE SWITCH
- TM — 24 HOUR TIMER
- $EMERG — EMERGENCY SHUTOFF SWITCH WITH RED COVER

PANELS & CIRCUITS

- ELECTRICAL PANEL, SURFACE MOUNTED
- ELECTRICAL PANEL, FLUSH MOUNTED

PANEL TYPES

- MDP — MAIN DISTRIBUTION PANEL
- LP — LIGHTING PANEL
- KP — KITCHEN PANEL
- PP — POWER PANEL

- HOME RUN TO CIRCUIT AND PANEL BOARD INDICATED. ARROWS INDICATE POLES,
- LP1-3 (PAR) — INDICATES PARTIAL CIRCUIT; INDICATES CIRCUIT NUMBER; INDICATES PANEL
- ELECTRICAL FEED TO EQUIPMENT MULTIPLE ARROWHEADS INDICATES MULTIPLE CIRCUITS
- DIRECT CONNECTION OF EQUIPMENT NOTED. USE FLEXIBLE CABLE OF TYPE APPROVED FOR LOCATION.
- CONDUIT RUN FLEXIBLE METALLIC
- CABLE FLEXIBLE
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- UP & DN — CONDUIT RUN UP AND DOWN
- CONDUIT OR CABLE RUN,ABOVE GRADE
- CONDUIT OR CABLE RUN, FEEDER CONCEALED
- T — TRANSFORMER, SIZE & TYPE AS INDICATED
- J, C — JUNCTION BOX - SIZED IN ACCORDANCE WITH NEC - "C" INDICATES MOUNTING IN CEILING SPACE
- 30NF — 3 POLE, NON-FUSIBLE DISCONNECT SWITCH 30 = AMPACITY. VOLTAGE AS REQ'D.
- 60 40 — 3 POLE FUSIBLE DISCONNECT SWITCH 60 = CLIP SIZE, 40 = FUSE SIZE VOLTAGE AS REQ'D
- 3R — 3 POLE WEATHERPROOF DISCONNECT SWITCH SIZE & CONFIGURATION AS NOTED ABOVE
- M — MANUAL STARTER - FLUSH TYPE IN FINISHED AREAS.
- 5 — MOTOR, HP AS INDICATED. COORDINATE W/ ACTUAL EQUIPMENT FURNISHED.
- COMBINATION MAGNETIC STARTER - NEMA SIZE AS REQUIRED (MINIMUM SIZE 1) PROVIDE W/ H-O-A SWITCH AND GREEN RUN LIGHT ON COVER.

INTERCOM/TELEPHONE SYSTEM

- SPEAKER - CEILING OR WALL MOUNTED 90" A.F.F. H = HORN, C = CEILING, W = WALL MOUNTED B = BI-DIRECTIONAL, ADJUSTABLE VOLUME
- BATTERY OPERATED COMMERCIAL ANALOG CLOCK WALL MOUNTED 90" A.F.F. GRD - PROVIDE WIRE GUARD
- EXISTING TELEPHONE HANDSET RELOCATED TO NEW LOCATION INSTALL WITH NEW JACK AND WALL PLATE. MOUNT AT 54" A.F.F.

SECURITY SYSTEMS

- MD — COMBINATION MICROWAVE PIR MOTION DETECTOR, MOUNT AT 76" A.F.F.
- DC — JAMB AND DOOR MOUNTED CONCEALED TYPE DOOR CONTACTS
- SKF — SECURITY SYSTEM ARMING/DISARMING KEYPAD, MOUNT AT 48" A.F.F.

ELECTRICAL UTILITY DISTRIBUTION

- UTILITY POLE
- OE — UTILITY LINE OE = OVERHEAD ELECTRIC; OT = OVERHEAD TELEPHONE; OCT = OVERHEAD CABLE TELEVISION
- GROUND

FIRE ALARM & LIFE SAFETY

- FACP — FIRE ALARM CONTROL PANEL
- PS — FIRE ALARM PULL STATION MTD 48" A.F.F.
- SD — SMOKE DETECTOR
- SD — DUCT SMOKE DETECTOR - SHALL BE FROM THE SAME MANUFACTURER AS THE BUILDING FIRE ALARM SYSTEM
- HD 135° 200° — HEAT DETECTOR - TEMP. AS INDICATED; HR = COMBINATION RATE OF RISE AND FIXED TEMPERATURE (135°F, 200°F - 15°F /MINUTE); HF = FIXED TEMPERATURE ONLY (135°, 200°); HA = RATE ANTICIPATION 194°F
- SPR — SPRINKLER PRESSURE SWITCH
- SF — SPRINKLER FLOW SWITCH
- ST — SPRINKLER TAMPER SWITCH
- H — ALARM HORN/STROBE LIGHT
- M — MINI-HORN MTD 80" A.F.F.
- FS — FIRE ALARM STROBE LIGHT
- F — TROUBLE BELL MTD 80" A.F.F.
- FB — FIRE ALARM BEACON MTD. NEAR ANNUNICIATOR(RED)
- DH — FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER
- TE — TEMPERATURE ELEMENT LOCATED OVER BOILERS FOR 120V POWER
- EXIT SIGN, RED LETTERING (SEE FIXTURE SCHEDULE)
- OS — ULTRASONIC OCCUPANCY SENSOR
- R — EMERGENCY LIGHTING REMOTE HEAD (2 HEAD SHOWN)
- BP — EMERGENCY LIGHTING BATTERY PACK WITH TWO HEADS

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
C	CONDUIT
CB	CIRCUIT BREAKER
℄	CENTER LINE
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
DW	DISHWASHER
DWG	DRAWING
EBB	ELECTRIC BASEBOARD HEATER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
E	EXISTING EQUIPMENT OR LOCATION
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FC	FAN COIL
GD	GARBAGE DISPOSER
GF	GROUND FAULT CIRCUIT INTERUPTER
GND	GROUND
GRC	GALVANIZED RIGID STEEL CONDUIT
H	HUMIDIFIER
HD	HAND / HAIR DRYER
HH	HAND HOLE
HP	HORSE POWER / HEAT PUMP
HPS	HIGH PRESSURE SODIUM
HRU	HEAT RECOVERY UNIT
HWP	HOT WATER CIRC. PUMP
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KW	KILOWATT
KWH	KILOWATT HOUR
LTG	LIGHTING
MATV	MASTER ANTENNA TELEVISION
MB	MAIN BREAKER
MD	MAIN DISCONNECT
MDP	MAIN DISTRIBUTION PANEL
MH	MAN HOLE / METAL HALIDE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MW	MICROWAVE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE (NFPA-70)
NF	NOT FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCD	OVERCURRENT DEVICE
PB	PULL BOX
PT	POTENTIAL TRANSFORMER
RCU	REFRIGERATION CONDENSING UNIT
RECP	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RF	RETURN FAN
RGE	RANGE
RH	RANGE HOOD
RT	ROOF TOP MOUNTED IN A WEATHERPROOF ENCLOSURE
RTAC	ROOF TOP AIRCONDITIONER
SF	SUPPLY FAN
S/N	SOLID NEUTRAL
TYP	TYPICAL
UH	UNIT HEATER
UV	UNIT VENTILATORS
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER
SS	SURGE SUPRESSOR RECEPTACLE
WM	INSTALL WITH "WIREMOLD"
PM	"PLUGMOLD" UTILIZED
WG	INSTALL WIREGUARD
P.O.S.	POINT OF SALE TERMINAL
DDC	DDC SYSTEM PANEL (MECHNICAL)
BP	BATTERY PACK
R	REMOTE HEAD

GENERAL NOTES

Neill and Gunter
Scarborough, Maine, U.S.A.

1. ALL GENERAL NOTES, SYMBOL LIST & DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
2. ALL WORK PERFORMED ON THIS CONTRACT SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE IN COMPLIANCE WITH NEC, NFPA, BOCA, OSHA, AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES
3. THESE DRAWINGS ARE, IN GENERAL, MADE TO SCALE BUT ALL MEASUREMENTS SHALL BE TAKEN FROM FIGURED DIMENSIONS, AND NOT BY SCALING.
4. THE ELECTRICAL CONTRACTOR SHALL CONFER WITH ALL OTHER TRADES RELATIVE TO THE LOCATION OF APPARATUS AND EQUIPMENT AND SELECT LOCATIONS SO AS NOT TO CONFLICT WITH WORK OF OTHER TRADES.
5. LIGHTING FIXTURE MANUFACTURERS NAME & MODEL NUMBER ARE USED FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. ALL OTHER EQUIPMENT SHALL NOT BE SUBSTITUTED EXCEPT UNDER THE PROVISIONS OF SECTION 3A, ARTICLE 9, (CONDITIONS OF THE CONTRACT) OR OTHERWISE ALLOWED BY SPECIFICATION.
6. ALL EQUIPMENT SHOWN ON THESE DRAWINGS IS INTENDED TO BE GENERALLY REPRESENTATIVE OF THE EQUIPMENT WHICH WILL BE INSTALLED UNDER THIS CONTRACT, BUT IT SHALL NOT BE ASSUMED THAT THE DRAWINGS INDICATE THE SPECIFIC CONFIGURATION, ARRANGEMENT OR POINTS OF CONNECTION OF THE ACTUAL EQUIPMENT UNLESS NOTED OTHERWISE.
7. ALL MOUNTING HEIGHTS GIVEN IN LEGEND ARE TYPICAL, UNLESS NOTED OTHERWISE IN SPECIFICATION, SECTION 16010, OR ON THESE DRAWINGS.
8. COORDINATE W/ CONTROLS CONTRACTOR TO PROVIDE POWER FOR ALL MISCELLANEOUS CONTROL OPERATORS AND PANELS
9. CIRCUIT BREAKERS USED FOR LIGHTING CIRCUITS SHALL BE SWITCH DUTY RATED AND APPROVED FOR USE WITH H.I.D. FIXTURES. CIRCUIT BREAKERS USED FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED.
10. ALL HOME RUNS FOR LIGHTING OR POWER CIRCUITS LONGER THAN 150 FEET SHALL BE INCREASED ONE SIZE. (IE: #12 TO #10)
11. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS SHALL BE SIZED FOR THE O.C.D. RATING FOR THAT CIRCUIT ACCORDING TO NEC ART 310 UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. IN NO CASE SHALL CONDUCTORS SMALLER THAN NO. 12 AWG BE USED FOR POWER OR LIGHTING CIRCUITS.
12. PROVIDE ⅜" NYLON ROPE IN ALL EMPTY SERVICE RACEWAYS.
13. ALL SLEEVES AND OTHER PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE SEALED AFTER CABLE INSTALLATION WITH A FIRE RETARDANT COMPOUND.
14. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH (2) 1¼" EMPTY CONDUITS BETWEEN PANEL & SUSPENDED CEILING.
15. ANY SURFACE RACEWAY SUCH AS CONDUIT OR WIREMOLD SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
16. ALL WIRING INSTALLED IN THE GYMNASIUM SHALL BE CONCEALED EXCEPT ABOVE THE TRUSSES.
17. THE GYMNASIUM AND THE EGRESS PATHS SHALL BE CONSIDERED "PLACES OF ASSEMBLY" AND WIRED PER N.E.C. ARTICLE 518.
18. ALL EXISTING WIRING AND ELECTRICAL DEVICES/EQUIPMENT SHALL NOT BE REUSED INCLUDING CATV, LIGHTING, POWER AND INTERCOM, AND SHALL BE REMOVED UNLESS OTHERWISE NOTED
19. THE CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AROUND ALL CONDUITS, CABLES AND ELECTRICAL EQUIPMENT AT ALL PARTITIONS PIERCED PER NEC 300-21 AND B.O.C.A.
20. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL SEISMIC REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT UNDER B.O.C.A.
21. GROUNDING SHALL BE PER N.E.C. ARTICLE 250, INSTALL GROUNDING CONDUCTORS WITH ALL FEEDERS. AND BRANCH CIRCUITS.

CAD13804007

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine
ADDITIONS & RENOVATIONS

ELECTRICAL SYMBOLS AND NOTES

STATE OF MAINE — HENRY A. MAGNUSON III — No. 5940 — REGISTERED PROFESSIONAL ENGINEER

DATE: 9/3/97
REVISIONS: 0
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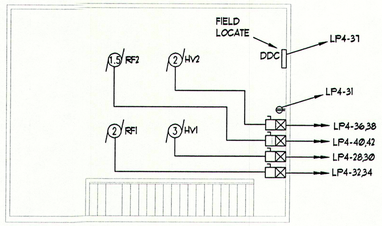
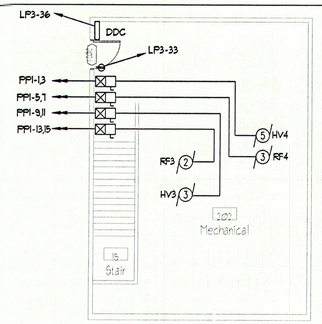
DRAWING NO.
E1.0

MECHANICAL ROOM PART PLAN
1/8" = 1' - 0"





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MECHANICAL ROOM PART PLAN
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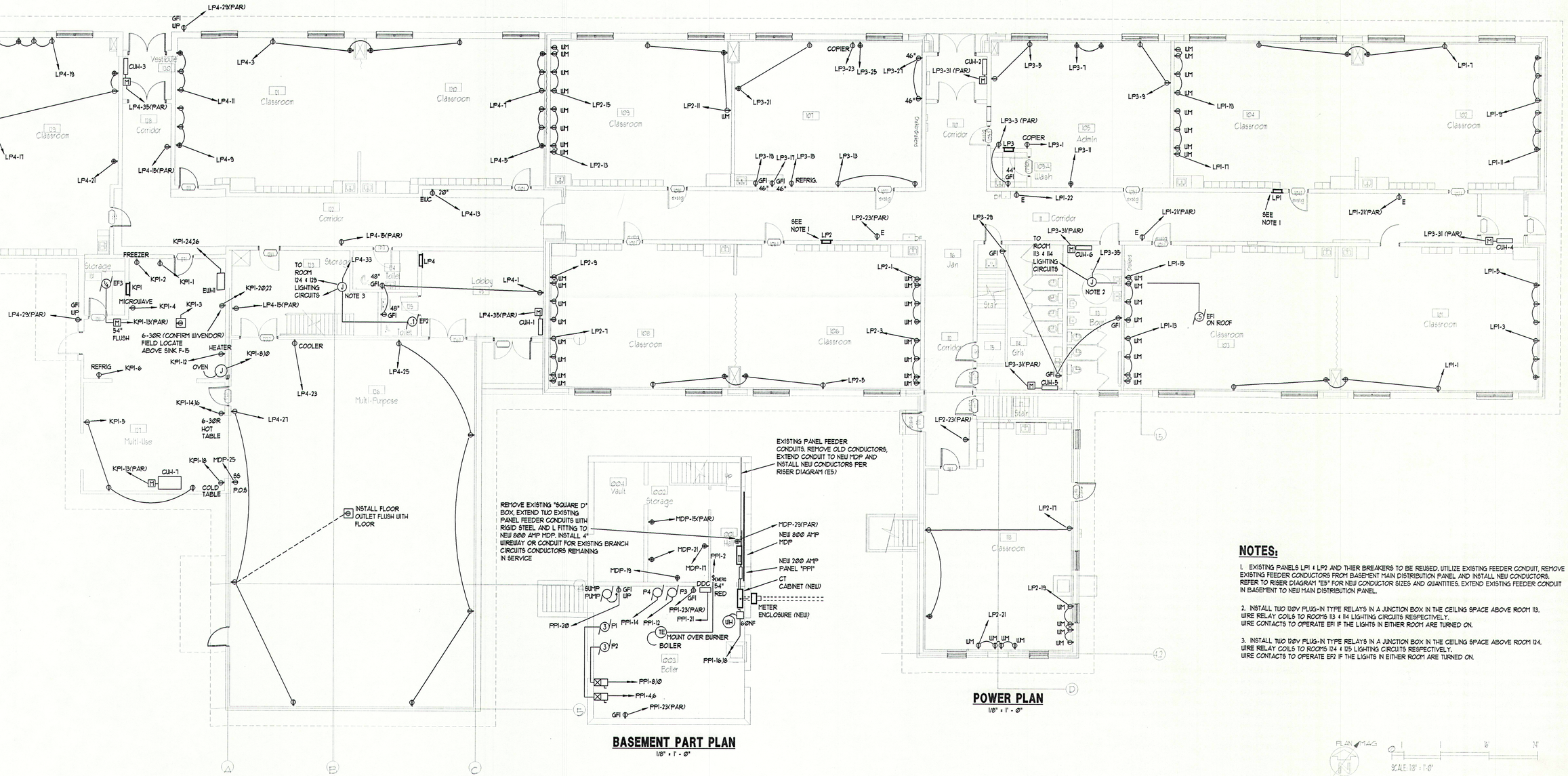

BASEMENT PART PLAN
1/8" = 1' - 0"

POWER PLAN
1/8" = 1' - 0"

NOTES:

1. EXISTING PANELS LPI & LP2 AND THIER BREAKERS TO BE REUSED. UTILIZE EXISTING FEEDER CONDUIT, REMOVE EXISTING FEEDER CONDUCTORS FROM BASEMENT MAIN DISTRIBUTION PANEL AND INSTALL NEW CONDUCTORS. REFER TO RISER DIAGRAM "E5" FOR NEW CONDUCTOR SIZES AND QUANTITIES. EXTEND EXISTING FEEDER CONDUIT IN BASEMENT TO NEW MAIN DISTRIBUTION PANEL.

2. INSTALL TWO 120V PLUG-IN TYPE RELAYS IN A JUNCTION BOX IN THE CEILING SPACE ABOVE ROOM 113. WIRE RELAY COILS TO ROOMS 113 & 114 LIGHTING CIRCUITS RESPECTIVELY.. WIRE CONTACTS TO OPERATE EF1 IF THE LIGHTS IN EITHER ROOM ARE TURNED ON.

3. INSTALL TWO 120V PLUG-IN TYPE RELAYS IN A JUNCTION BOX IN THE CEILING SPACE ABOVE ROOM 124. WIRE RELAY COILS TO ROOMS 124 & 125 LIGHTING CIRCUITS RESPECTIVELY. WIRE CONTACTS TO OPERATE EF2 IF THE LIGHTS IN EITHER ROOM ARE TURNED ON.

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Drowne Road Cumberland, Maine
ADDITIONS & RENOVATIONS

ELECTRICAL POWER FLOOR PLAN

STATE OF MAINE HENRY A. MAGNUSON III No. 5940 REGISTERED PROFESSIONAL ENGINEER

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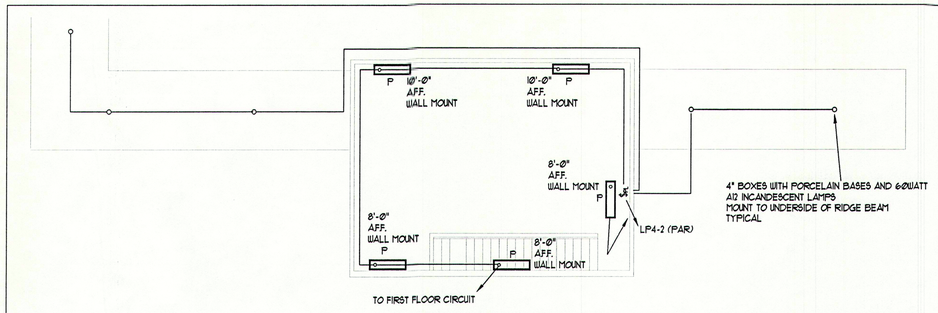

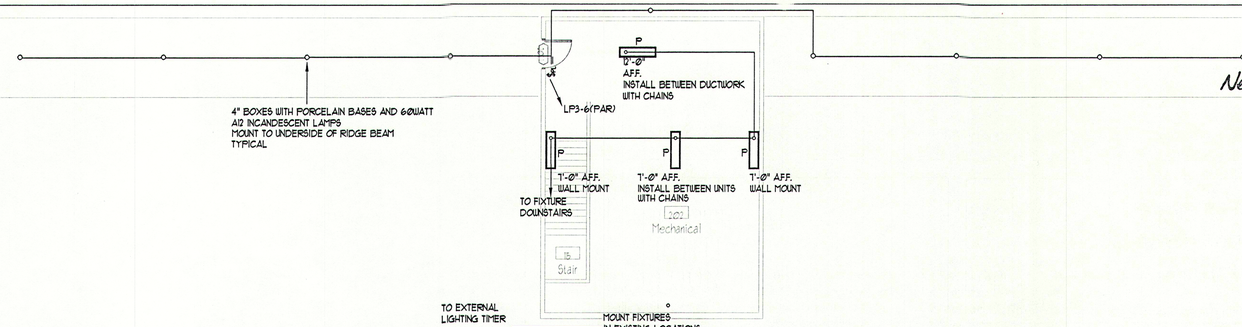

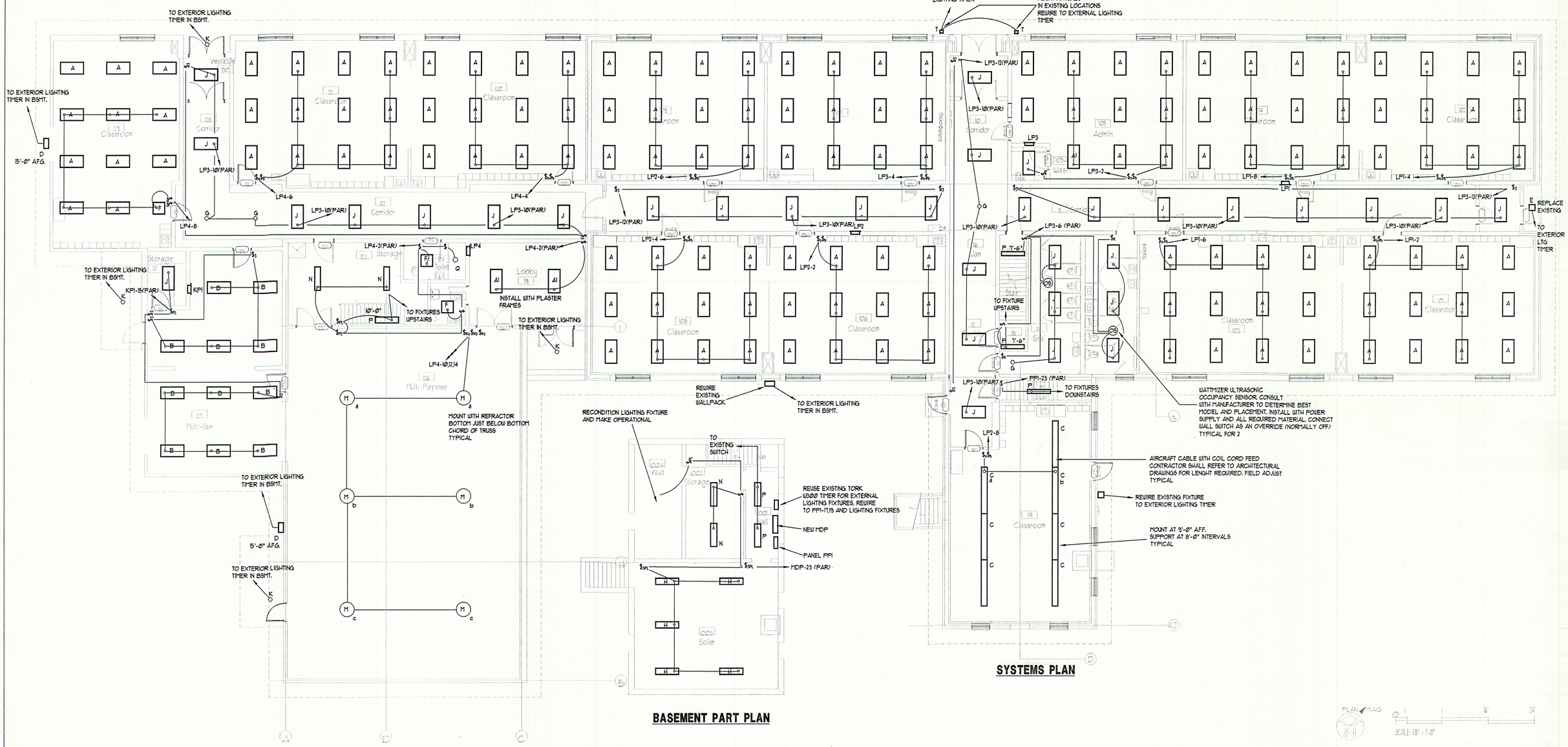

BASEMENT PART PLAN

SYSTEMS PLAN

SCALE: 1/8" = 1'-0"

CAD 2380402

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DROWNE ROAD SCHOOL

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ADDITIONS & RENOVATIONS

ELECTRICAL LIGHTING FLOOR PLAN

STATE OF MAINE HENRY A. MAGNUSON III No. 5940 REGISTERED PROFESSIONAL ENGINEER

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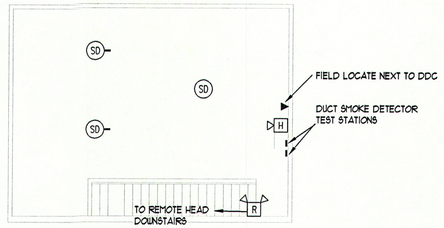

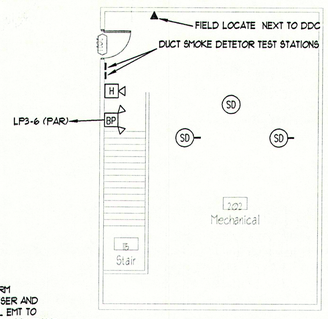

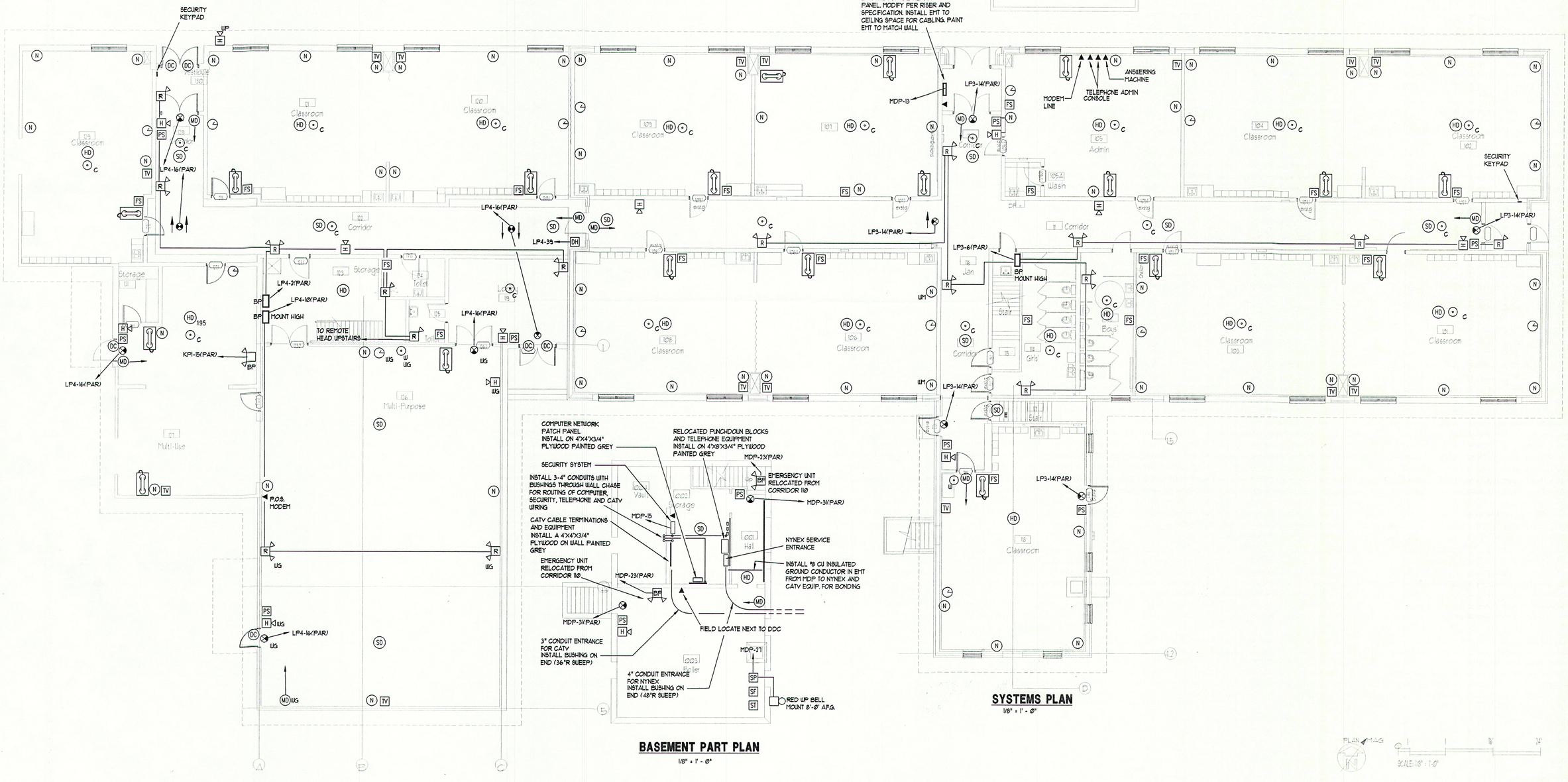

BASEMENT PART PLAN
1/8" = 1' - 0"

SYSTEMS PLAN
1/8" = 1' - 0"

PLAN TAG
SCALE: 1/8" = 1'-0"

CAD 23804001

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ADDITIONS & RENOVATIONS

ELECTRICAL SYSTEMS FLOOR PLAN

STATE OF MAINE HENRY A. MAGNUSON III No. 5940 REGISTERED PROFESSIONAL ENGINEER

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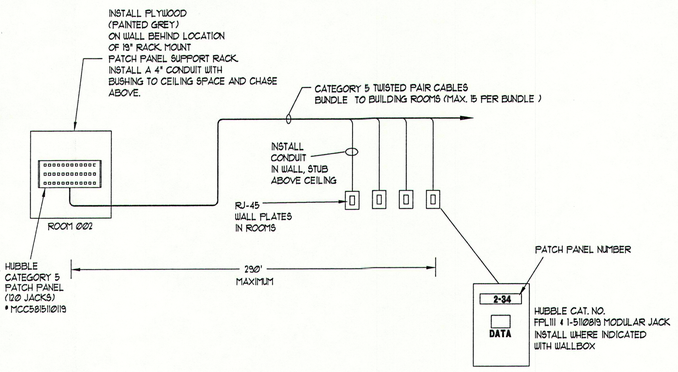
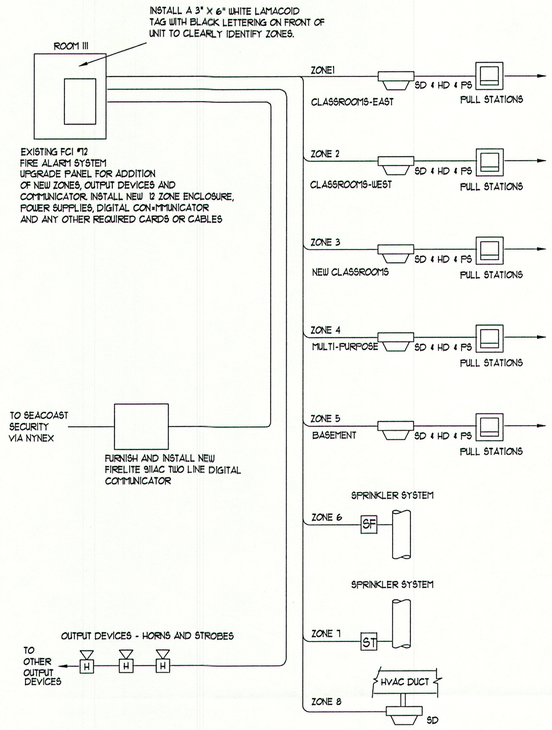
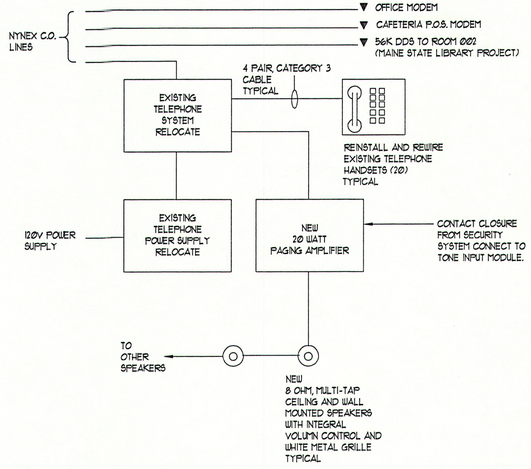


COMPUTER NETWORK WIRING

N.T.S.





TELEPHONE/INTERCOM SYSTEM

N.T.S.

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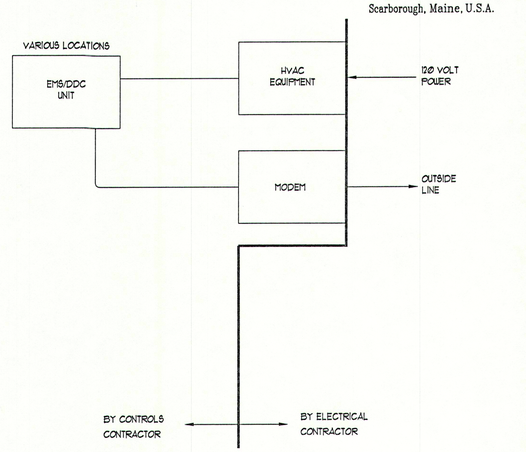

ENERGY MANAGEMENT SYSTEM

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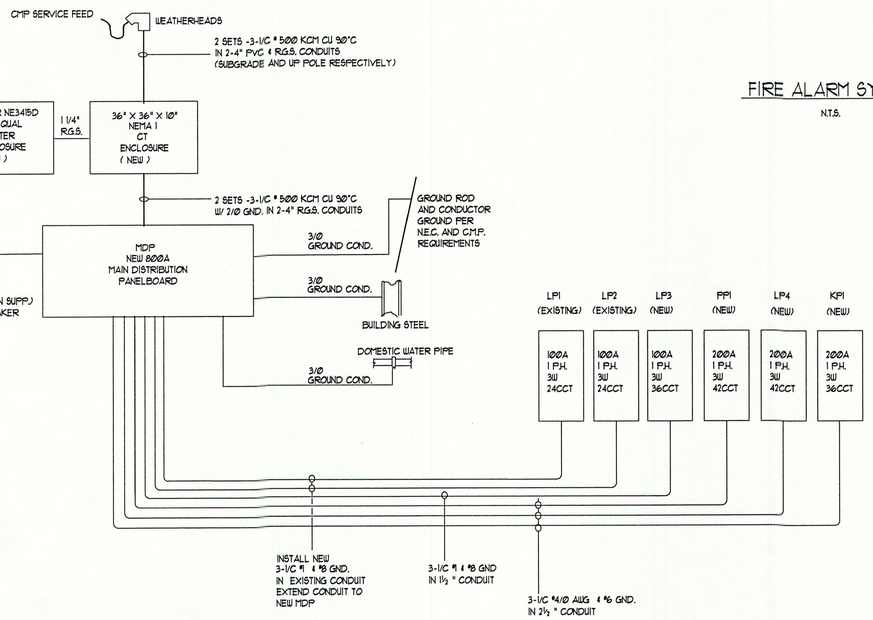
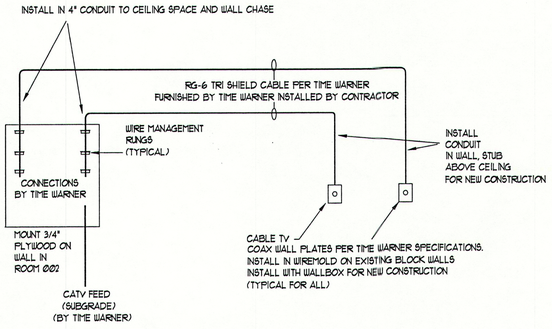


SERVICE ENTRANCE & POWER DISTRIBUTION RISER DIAGRAM

N.T.S.

FIRE ALARM SYSTEM

N.T.S.



CATV SYSTEM

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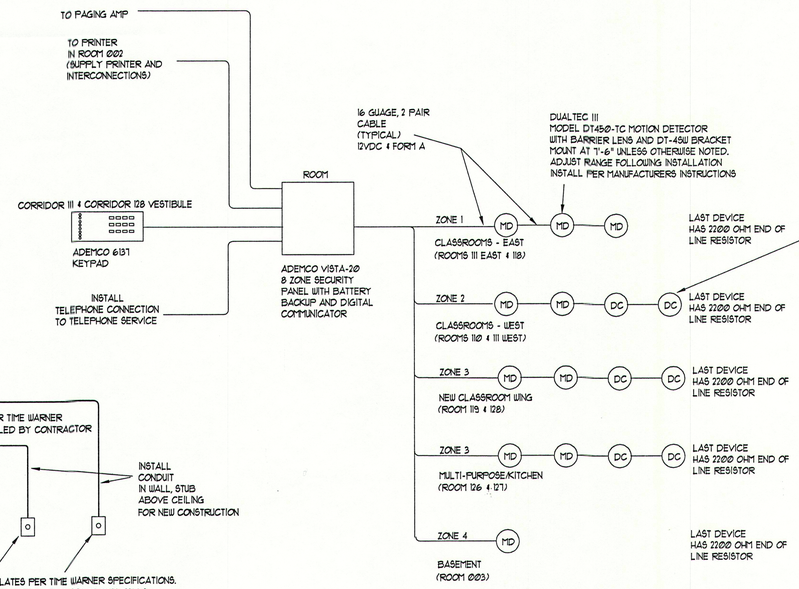

SECURITY SYSTEM

N.T.S.

CAD 23804003

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

ELECTRICAL RISERS & DETAILS

STATE OF MAINE HENRY A. MAGNUSON III No. 5940 REGISTERED PROFESSIONAL ENGINEER

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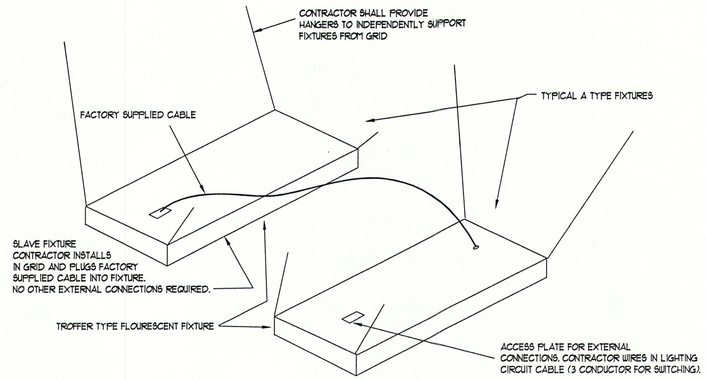
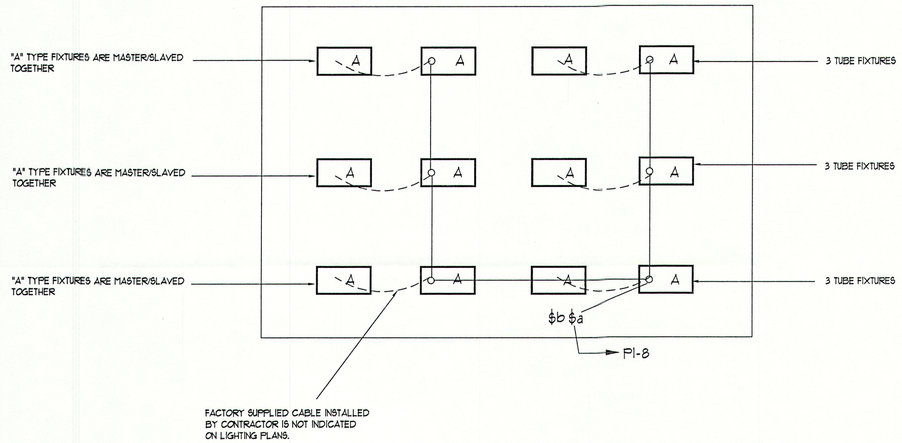
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	NOTES
A	2' x 4', 3 LAMP TROFFER	COLUMBIA	2J340FH-120 -4EO/2EO M/S11	3-T832/SP35/RS	ELECTRONIC BALLAST (4)
A1	2' x 4', 3 LAMP TROFFER	COLUMBIA	2J340FH-120 -2EO/1EO	3-T832/SP35/RS	ELECTRONIC BALLAST
B	2' x 4', 4 LAMP TROFFER	COLUMBIA	2J440FH-120 -4EO	4-T832/SP35/RS	ELECTRONIC BALLAST
C	INDIRECT/DIRECT	COLUMBIA	ME232-86BLEB8120 CM-CCFGN	4-T832/SP35/RS	ELECTRONIC BALLAST
D	WALLPACK	GENERAL ELECTRIC	WM4T250 WITH VISOR	1-250W HPS	MOUNT 15' A.F.G.
E	RECESSED	HUBBLE	HMI-HID HLB-5099-1213	1-50W HPS	
F	2' x 2', 2 LAMP TROFFER	COLUMBIA	J22-232U6GFSA12EB8120	2-FBO31/SP35/RS	ELECTRONIC BALLAST
G	RECESSED	HALO	C7226-7250L1	2-26W QUAD	HIGH POWER FACTOR BALLAST
H	4' - 2 LAMP INDUSTRIAL	COLUMBIA	KL240120LG2	2-T832/SP35/RS	ELECTRONIC BALLAST (1)
J	2' x 4', 2 LAMP TROFFER	COLUMBIA	2J240FH-120 -2EO	2-T832/SP35/RS	ELECTRONIC BALLAST
K	RECESSED CAN	KIRLIN	RR50619-24-46	1-70W HPS , E-17	
M	LOW BAY	GENERAL ELECTRIC	L4MD400M0A55I7LDQ WITH SAFETY CHAINS	1-400W MH	
N	4' - 2 LAMP WRAPAROUND	COLUMBIA	AWN4-232-EB8120	2-T832/SP35/RS	
P	4' - 2 LAMP WALL BRACKET	LITHONIA	WC240-120	2-T832/SP35/RS	ELECTRONIC BALLAST
Q	SHOWER LIGHT	KIRLIN	RR30635-CV	1-PL-T-26	
T	ENTRANCE	KIM	WF250HPS120WH-P	1-50W HPS, ED-17	
W	UNDERCABINET	ALKCO	SFHP-113	1-T5 , 13W	
⊗	EXIT SIGN	LIGHTALARMS	XLEDWRW		(2)



MASTER / SLAVE FIXTURE DETAIL

N.T.S.



TYPICAL CLASSROOM LIGHTING DETAIL

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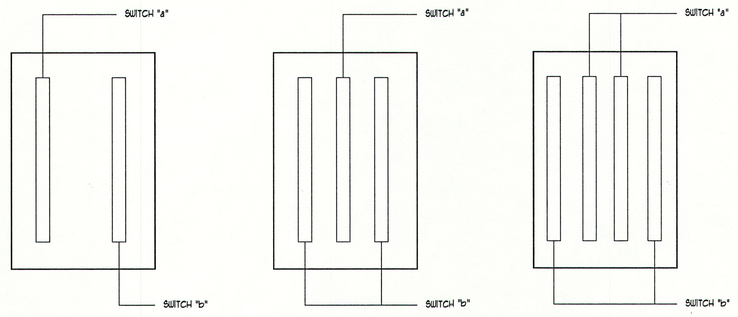

LIGHTING FIXTURE LAMP SWITCHING DETAIL

N.T.S.

NOTES:

(1) CONTRACTOR SHALL FURNISH FIXTURE HANGERS WHERE REQUIRED.

(2) ORDER F-43G WIRE GUARD OPTION FOR GYM . CONTRACTOR SHALL SPECIFY MOUNTING AND FACING WHEN ORDERING ALL EXIT SIGNS. (CEILING OR END MOUNT DOUBLE FACE WITH CANOPY SHOWN)

(3) ALL LIGHTING FIXTURES SHALL BE INDEPENDANTLY SUPPORTED PER B.O.C.A.

(4) FIXTURE WITH M/S11 IN CATALOG NUMBER ARE PREWIRED IN A MASTER/SLAVE CONFIGURATION AND HAVE THE TUBES SWITCHED FOR LOWERING OF LIGHT LEVELS. (3 WIRE CIRCUIT)

(5) ALL FLUORESCENT BALLAST ARE HIGH POWER FACTOR, LOW HARMONIC DISTORTION TYPE REFER TO SPECIFICATION FOR EXACT REQUIREMENTS

(6) FIXTURE MOUNTING IN GYPSUM BOARD CEILING, FURNISH CEILING FLANGE MOUNTING KIT.

CAD23804004

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine
ADDITIONS & RENOVATIONS

ELECTRICAL FIXTURE SCHEDULE AND DETAILS

STATE OF MAINE HENRY A MAGNUSON III No. 5940 REGISTERED PROFESSIONAL ENGINEER

DATE: 9/3/97
REVISIONS: Ø
RAN/HAM
RELEASED FOR BID

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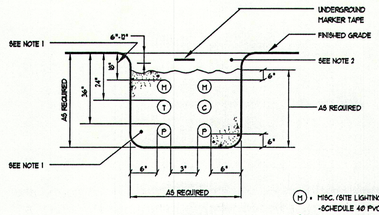
DRAWING NO.
E6.0

Neill and Gunter
Scarborough, Maine, U.S.A.

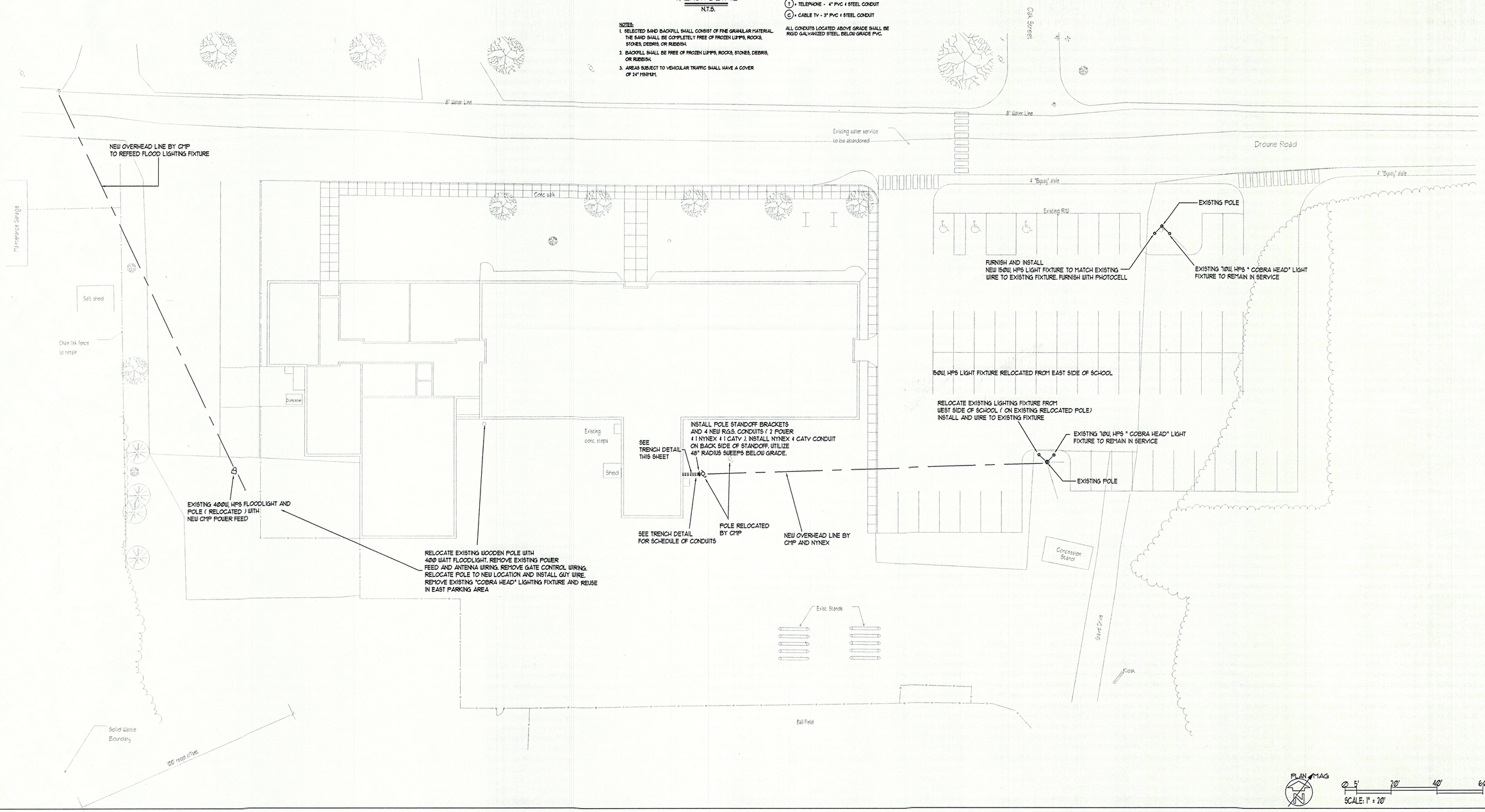


TRENCH DETAIL
N.T.S.

NOTES:
1. SELECTED SAND BACKFILL SHALL CONSIST OF FINE GRANULAR MATERIAL. THE SAND SHALL BE COMPLETELY FREE OF FROZEN LUMPS, ROCKS, STONES, DEBRIS, OR RUBBISH.
2. BACKFILL SHALL BE FREE OF FROZEN LUMPS, ROCKS, STONES, DEBRIS, OR RUBBISH.
3. AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL HAVE A COVER OF 24" MINIMUM.

(H) = MISC. (SITE LIGHTING, ETC.) -SCHEDULE 40 PVC AND DIRECT BURIAL
(P) = SERVICE ENTRANCE - 2 - 4" STEEL & SCH. 40 PVC
(T) = TELEPHONE - 4" PVC & STEEL CONDUIT
(C) = CABLE TV - 3" PVC & STEEL CONDUIT

ALL CONDUITS LOCATED ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL, BELOW GRADE PVC.



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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine

ADDITIONS & RENOVATIONS

ELECTRICAL
LIGHTING & POWER
SITE PLAN

STATE OF MAINE
HENRY A. MAGNUSON III
No. 5940
REGISTERED PROFESSIONAL ENGINEER

DATE: 9/3/97
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Neill and Gunter
Scarborough, Maine, U.S.A.

PANEL MDP

MOUNTING SURFACE — AIC 22,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 WIRE BUS RATING 800 AMP M.B.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1, 3	PANEL LP1	14190	100	200	28410	PANEL PP1	2, 4
5, 7	PANEL LP2	13964	100	200	39070	PANEL KP1	6, 8
9, 11	PANEL LP3	12002	100	200	27868	PANEL LP4	10, 12
13	FIRE ALARM PANEL	500	20	30	250	SURGE SUPPRESSOR	14
15	SECURITY SYSTEM	250	20				16
17	TELEPHONE SYSTEM	500	20			SPACE	18
19	COMPUTER NETWORK EQUIP	500	20			SPACE	20
21	CATV EQUIP	500	20			SPACE	22
23	BASEMENT LIGHTING	180	20			SPACE	24
25	CAFETERIA P.O.S.	500	20			SPACE	26
27	SPRINKLER BELL	250	20			SPACE	28
29	SERVICE RECEPT.-ROOM 001	320	20			SPACE	30
31	EXIT SIGNS	250	20			SPACE	32
33	SPACE					SPACE	34
35	SPACE					SPACE	36
37	SPACE					SPACE	38
39	SPACE					SPACE	40
41	SPACE					SPACE	42
					70127	TOTAL VA PHASE A	
					69127	TOTAL VA PHASE B	
					139154	TOTAL LOAD 581 AMPS	

A B — S/N

PANEL LOCATION BASEMENT

* INSTALL #10 FEEDER CONDUCTORS

(CONNECTED)

PANEL LP1 - EXISTING

MOUNTING FLUSH — 10,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 W — BUS RATING 100 AMP M.L.O.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1	RECEPTACLES - ROOM 101/103	1080	20	20	1152	LIGHTING - ROOM 101	2
3	RECEPTACLES - ROOM 101	720	20	20	1152	LIGHTING - ROOM 102	4
5	RECEPTACLES - ROOM 101	720	20	20	1152	LIGHTING - ROOM 103	6
7	RECEPTACLES - ROOM 102/104	1080	20	20	1152	LIGHTING - ROOM 104	8
9	RECEPTACLES - ROOM 102	720	20	20		SPARE	10
11	RECEPTACLES - ROOM 102	720	20	15		SPARE	12
13	RECEPTACLES - ROOM 103	720	20	15		SPARE	14
15	RECEPTACLES - ROOM 103	720	20	20		SPARE	16
17	RECEPTACLES - ROOM 104	720	20	20		SPARE	18
19	RECEPTACLES - ROOM 104	720	20	20		SPARE	20
21	RECEPTACLES - CORRIDOR	360	20	20	360	RECEPTACLE - DRINKING F.	22
23	SPARE		20	20		SPARE	24
					7124	TOTAL VA PHASE A	
					7066	TOTAL VA PHASE B	
					14190	TOTAL LOAD 59 AMPS	

A B — S/N

PANEL LOCATION CORRIDOR 111 (EAST)

PANEL LP2 - EXISTING

MOUNTING FLUSH — 10,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 W — BUS RATING 100 AMP M.L.O.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1	RECEPTACLES - ROOM 106	720	20	20	1152	LIGHTING - ROOM 106	2
3	RECEPTACLES - ROOM 106	720	20	20	1152	LIGHTING - ROOM 108	4
5	RECEPTACLES - ROOM 106/108	1080	20	20	1152	LIGHTING - ROOM 109	6
7	RECEPTACLES - ROOM 108	720	20	20	1792	LIGHTING - ROOM 118	8
9	RECEPTACLES - ROOM 108	720	20	20		SPARE	10
11	RECEPTACLES - ROOM 109	720	20	20		SPARE	12
13	RECEPTACLES - ROOM 109	720	20	20		SPARE	14
15	RECEPTACLES - ROOM 109	720	20	20		SPARE	16
17	RECEPTACLES - ROOM 118	720	20	20		SPARE	18
19	RECEPTACLES - ROOM 118	720	20	20		SPARE	20
21	RECEPTACLES - ROOM 118	720	20	20		SPARE	22
23	RECEPTACLES - CORRIDOR	180	20	20		SPARE	24
					7240	TOTAL VA PHASE A	
					6724	TOTAL VA PHASE B	
					13964	TOTAL LOAD 58 AMPS	

A B — S/N

PANEL LOCATION CORRIDOR 111 (WEST)
REPLACE EXISTING 2 POLE BREAKERS
WITH NEW SINGLE POLE BREAKERS

PANEL LP4

MOUNTING FLUSH — AIC 22,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 WIRE BUS RATING 200 AMP M.L.O.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1	RECEPTACLES - ROOM 119,124,125	540	20	20	1452	LIGHTING - ROOM 119,122,123,124,125	2
3	RECEPTACLES - ROOM 120,121	1080	20	20	1152	LIGHTING - ROOM 120	4
5	RECEPTACLES - ROOM 120	720	20	20	1152	LIGHTING - ROOM 121	6
7	RECEPTACLES - ROOM 120	720	20	20	1152	LIGHTING - ROOM 129	8
9	RECEPTACLES - ROOM 121	720	20	20	930	LIGHTING - ROOM 126	10
11	RECEPTACLES - ROOM 121	720	20	20	930	LIGHTING - ROOM 126	12
13	WATER COOLER - CORRIDOR	540	20	20	930	LIGHTING - ROOM 126	14
15	RECEPTACLES - ROOM 122,123,128	548	20	20	250	EXIT SIGNS	16
17	RECEPTACLES - ROOM 129	720	20	20		SPARE	18
19	RECEPTACLES - ROOM 129	720	20	20		SPARE	20
21	RECEPTACLES - ROOM 129	720	20	20		SPARE	22
23	WATER COOLER - ROOM 126	1000	20				24
25	RECEPTACLES - ROOM 126	720	20				26
27	RECEPTACLES - ROOM 126	720	20	40	4080	HV1	28, 30
29	RECEPTACLES - EXTERIOR	360	20				
31	RECEPTACLES - MECH ROOM	180	20	30	2880	RF1	32, 34
33	EXHAUST FAN 124 & 125	100	20				
35	CUH 1 & 3	100	20	30	2880	HV2	36, 38
37	DDC EQUIP	250	20				
39	DOOR HOLDER	250	20	30	2400	RF2	40, 42
41	SPARE		20				
					14104	TOTAL VA PHASE A	
					13764	TOTAL VA PHASE B	
					27868	TOTAL LOAD 116 AMPS	

A B — S/N

PANEL LOCATION LOBBY 119

PANEL KP1

MOUNTING FLUSH — AIC 22,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 WIRE BUS RATING 200 AMP M.L.O.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1	RECEPTACLES - ROOM 126	180	20	20	1200	FREEZER	2
3	RECEPTACLES - ROOM 126	180	20	20	1100	MICROWAVE	4
5	RECEPTACLES - ROOM 127	540	20	20	852	REFRIGIRATOR	6
7	SPARE		20	60	11000	OVEN	8, 10
9	SPARE		20				
11	SPARE		20	20	1500	HEATER	12
13	CUH1 & EF3	250	20	30	4992	HOT TABLE	14, 16
15	KITCHEN LIGHTING	1472	20				
17	SPACE			20	804	COLD TABLE	18
19	SPACE			30	6000	SINK HEATER	20, 22
21	SPACE						
23	SPACE			50	9000	EWH1	24, 26
25	SPACE						
27	SPACE			40		SPARE	28, 30
29	SPACE						
31	SPACE			20		SPARE	32
33	SPACE			20		SPARE	34
35	SPACE			20		SPARE	36
					19322	TOTAL VA PHASE A	
					19748	TOTAL VA PHASE B	
					39070	TOTAL LOAD 162 AMPS	

A B — S/N

PANEL LOCATION ROOM 127

(CONNECTED)

PANEL PP1

MOUNTING SURFACE — AIC 22,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 WIRE BUS RATING 200 AMP M.L.O.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1, 3	HV UNIT 4	6740	60	20	1000	BOILER	2
5, 7	RETURN FAN 4	4080	40	40	4080	PUMP #1	4, 6
9, 11	HV UNIT 3	4080	40	40	4080	PUMP #2	8, 10
13, 15	RETURN FAN 3	2880	30	20	500	PUMP #3	12
17	EXTERIOR LIGHTING		20	20	500	PUMP #4	14
19	EXTERIOR LIGHTING		20	50	9600	HOT WATER HEATER	16, 18
21	DDC PANEL - ROOM 003	250	20	20	800	SUMP PUMP	20
23	RECEPTACLES - ROOM 003	360	20	20		SPARE	22, 24
25	SPARE		20	20			26
27			20	20			28
29			20	20			30
31			20	20			32
33			20	20			34
35	SPACE		20	20		SPACE	36
37	SPACE		20	20		SPACE	38
39	SPACE		20	20		SPACE	40
41	SPACE		20	20		SPACE	42
					19520	TOTAL VA PHASE A	
					19430	TOTAL VA PHASE B	
					38950	TOTAL LOAD 163 AMPS	

A B — S/N

PANEL LOCATION BASEMENT

PANEL LP3

MOUNTING FLUSH — AIC 22,000 AIC
VOLTAGE 120/240, 1 PHASE, 3 WIRE BUS RATING 100 AMP M.L.O.

CKT. NO.	DESCRIPTION	VA	BKR. SIZE	BKR. SIZE	VA	DESCRIPTION	CKT. NO.
1	COPIER - ROOM 105	1000	20	20	1152	LIGHTING - ROOM 105	2
3	RECEPTACLES - ROOM 105	360	20	20	1152	LIGHTING - ROOM 107	4
5	RECEPTACLES - ROOM 105	360	20	20	1308	LIGHTING - ROOMS 113,114,116,202	6
7	RECEPTACLES - ROOM 105	720	20	20		SPARE	8
9	RECEPTACLES - ROOM 105	360	20	20	384	LIGHTING - NIGHT	10
11	RECEPTACLES - ROOM 105	360	20	20	832	LIGHTING - CORRIDOR	12
13	RECEPTACLES - ROOM 107	360	20	20	64	EXIT SIGNS	14
15	REFRIGIRATOR - ROOM 107	1000	20	20		SPARE	16
17	COUNTER - ROOM 107	180	20	20		SPARE	18
19	COUNTER - ROOM 107	180	20	20		SPARE	20
21	RECEPTACLES - ROOM 107	540	20	20		SPARE	22
23	COPIER - ROOM 107	1000	20			SPACE	24
25	RECEPTACLES - ROOM 107	360	20			SPACE	26
27	RECEPTACLES - ROOM 107	360	20			SPACE	28
29	RECEPTACLES - ROOM 113,114	360	20			SPACE	30
31	CUH 2, 4, 5, 6	250	20			SPACE	32
33	RECEPTACLES - ROOM 202	180	20			SPACE	34
35	EXHAUST FAN - ROOM 113,114	500	20	20	250	DDC EQUIP - ROOM 202	36
					6364	TOTAL VA PHASE A	
					5638	TOTAL VA PHASE B	
					12002	TOTAL LOAD 50 AMPS	

A B — S/N

PANEL LOCATION ROOM 105

CAD13804005

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine
ADDITIONS & RENOVATIONS

ELECTRICAL
PANEL SCHEDULES

STATE OF MAINE — HENRY A. MAGNUSON III — No. 5940 — REGISTERED PROFESSIONAL ENGINEER

DATE: 9/3/97
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Scarborough, Maine, U.S.A.

REMOVAL NOTES

R1= REMOVE LIGHTING FIXTURES FROM CEILING (TRACK, SURFACE & RECESSED) ALONG WITH ASSOCIATED BOXES, WIRING AND FITTINGS. REMOVE WIRING BACK TO THE DISTRIBUTION EQUIPMENT.

R2= NOTE NOT USED

R3= REMOVE TELEPHONE PUNCHDOWN BLOCKS, REMOVE ALL JACKS OR END DEVICES, BOXES AND WIRING.

R4= REMOVE EXIT SIGNS & EMERGENCY LIGHTING, WIRING & FITTINGS BACK TO THE SOURCE OF POWER.

R5= EXISTING WATER HEATER, WIRING, CONDUIT & DEVICE BOXES TO BE REMOVED.

R6= REMOVE RECEPTACLES, DEVICE BOXES, WIRING, CONDUIT AND FITTINGS BACK TO DISTRIBUTION EQUIPMENT.

R7= NOT USED

R8= REMOVE EXISTING HEAT DETECTORS AND WIRING AND STORE FOR REUSE SEE E4 FOR NEW LOCATIONS.

R9= REMOVE EXISTING SMOKE DETECTORS, ASSOCIATED WIRING AND DEVICES TO SOURCE.

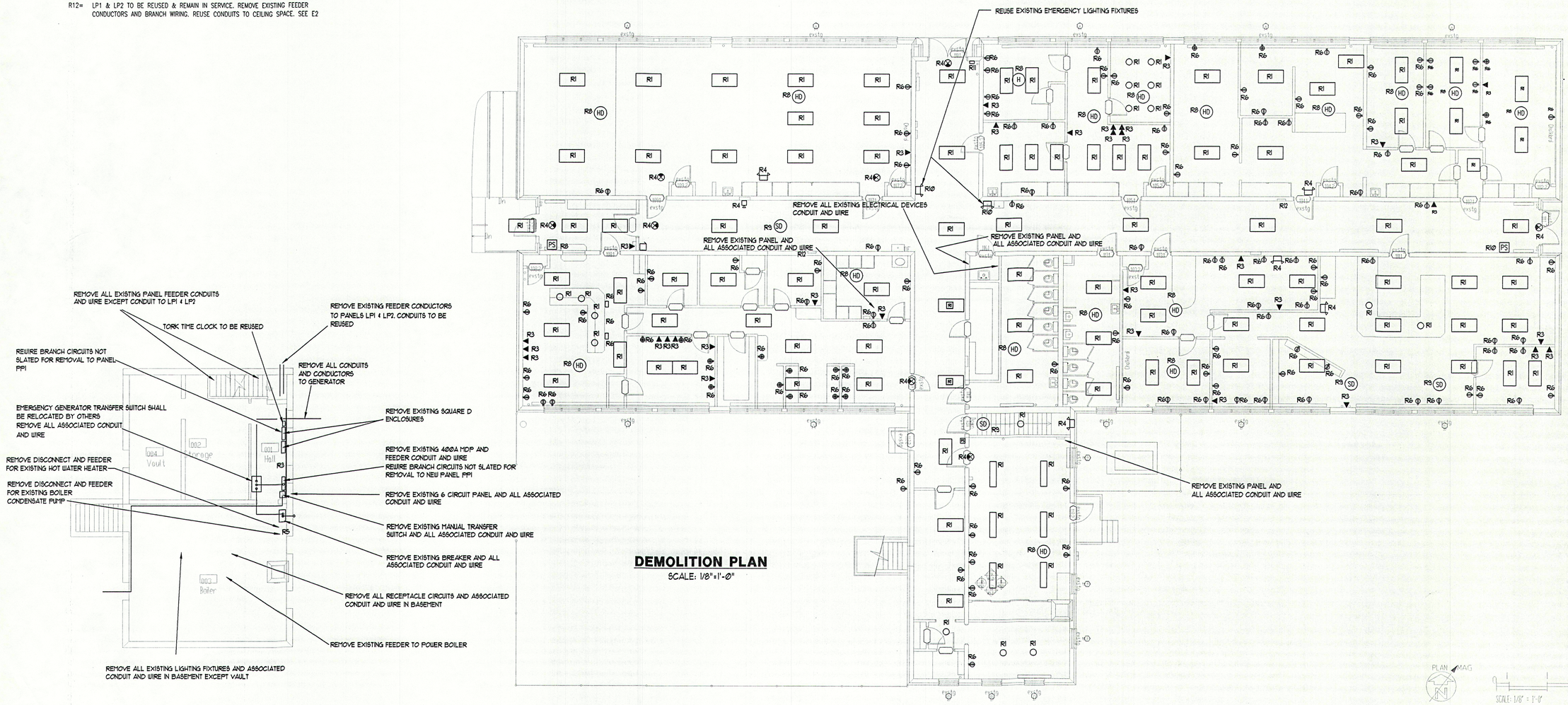
R10= REMOVE AND SAVE FOR RE-USE SEE E4

R11= REMOVE ALL WIRING FOR EXISTING SECURITY SYSTEM

R12= LP1 & LP2 TO BE REUSED & REMAIN IN SERVICE. REMOVE EXISTING FEEDER CONDUCTORS AND BRANCH WIRING. REUSE CONDUITS TO CEILING SPACE. SEE E2

EXISTING CONDITIONS & GENERAL NOTES:

1. DRAWINGS INDICATE THE MAJORITY OF ALL KNOWN DEVICES AT THE TIME TO BE REMOVED. ADDITIONAL DEVICES, EQUIPMENT, BOXES AND WIRING MAY EXIST. ALL DEVICES, EQUIPMENT, BOXES AND WIRING MUST BE REMOVED UNLESS SPECIFICALLLY NOTED TO REMAIN IN SERVICE ON THIS DRAWING.
2. REMOVE ALL FLOOR RECEPTACLES AND WIRING TO SOURCE. FILL FLOOR BOXES
3. REMOVE ALL INTERIOR TELEPHONE AND COMPUTER WIRING AND DEVICES.
4. REMOVE ALL ASSOCIATED RACEWAYS AND WIRING FOR SURFACE MOUNTED DEVICES SLATED FOR REMOVAL.
5. REMOVE ALL EXISTING BELLS AND ASSOCIATED WIRING.



DEMOLITION PLAN
SCALE: 1/8"=1'-0"

PLAN MAG

SCALE: 1/16" = 1'-0"

CAD138@4006

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DROWNE ROAD SCHOOL

Drowne Road Cumberland, Maine
ADDITIONS & RENOVATIONS

ELECTRICAL DEMOLITION PLAN

STATE OF MAINE HENRY A. MAGNUSON III No. 5940 REGISTERED PROFESSIONAL ENGINEER

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