## Monument Mountain Regional High School

600 Stockbridge Road Great Barrington MA 01230

PROPOSED EXTERIOR ELEVATIONS

FOOD SERVICES- CULINARY PROGRAM

PROPOSED BUILDING SECTIONS

**EXISTING WALL SECTIONS** 

FOOD SERVICES- KITCHEN

**HOT WATER FLOW DIAGRAM** 

**FIRST FLOOR PLAN** 

**LEGEND** 

**DETAILS** 

**ROOF PLAN** 

**FS-001** 

**FS-002** 

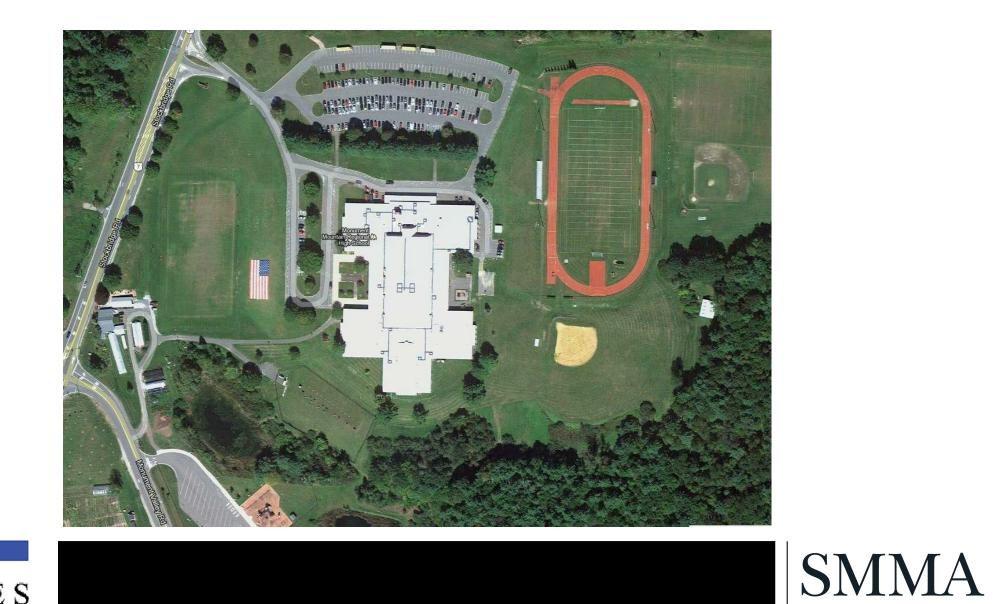
M-001

M-701

PROPOSED WALL SECTIONS

SCHEMATIC DESIGN MAY 31, 2013

#### LIST OF DRAWINGS (CONT.) LIST OF DRAWINGS E-001 C-101 **EXISTING CONDITIONS PLAN** SYMBOL LEGEND AND NOTES C-111 SITE PREPARATION PLAN ED101 **DEMOLITION PLAN EP101 ELECTRICAL SCOPE PLAN** C-121 LAYOUT & MATERIALS PLAN **GRADING & UTILITIES PLAN** C-141 **ES101** SITE PLAN AND DETAILS **PLANTING PLAN** C-151 **EP401** PARTIAL ELECTRIC ROOM PLANS C-501 **DETAILS I EY401 CCTV PLAN DIAGRAMS- INTERIOR AND SITE** C-502 C-503 C-504 **DETAILS II EP601 POWER ONE-LINE DIAGRAM PART 1 POWER ONE-LINE DIAGRAM PART 2 DETAILS III EP602 DETAILS IV EP603 POWER ONE-LINE DIAGRAM PART 3 EP604** PANEL SCHEDULES **EXISTING FLOOR PLAN COMMUNICATIONS ONE-LINE DIAGRAM** FIRST FLOOR DEMOLITION PLAN **EY601 ACCESS CONTROL DIAGRAM** PROPOSED FLOOR PLANS PROPOSED ROOF PLAN A-102 **EXISTING EXTERIOR ELEVATIONS**



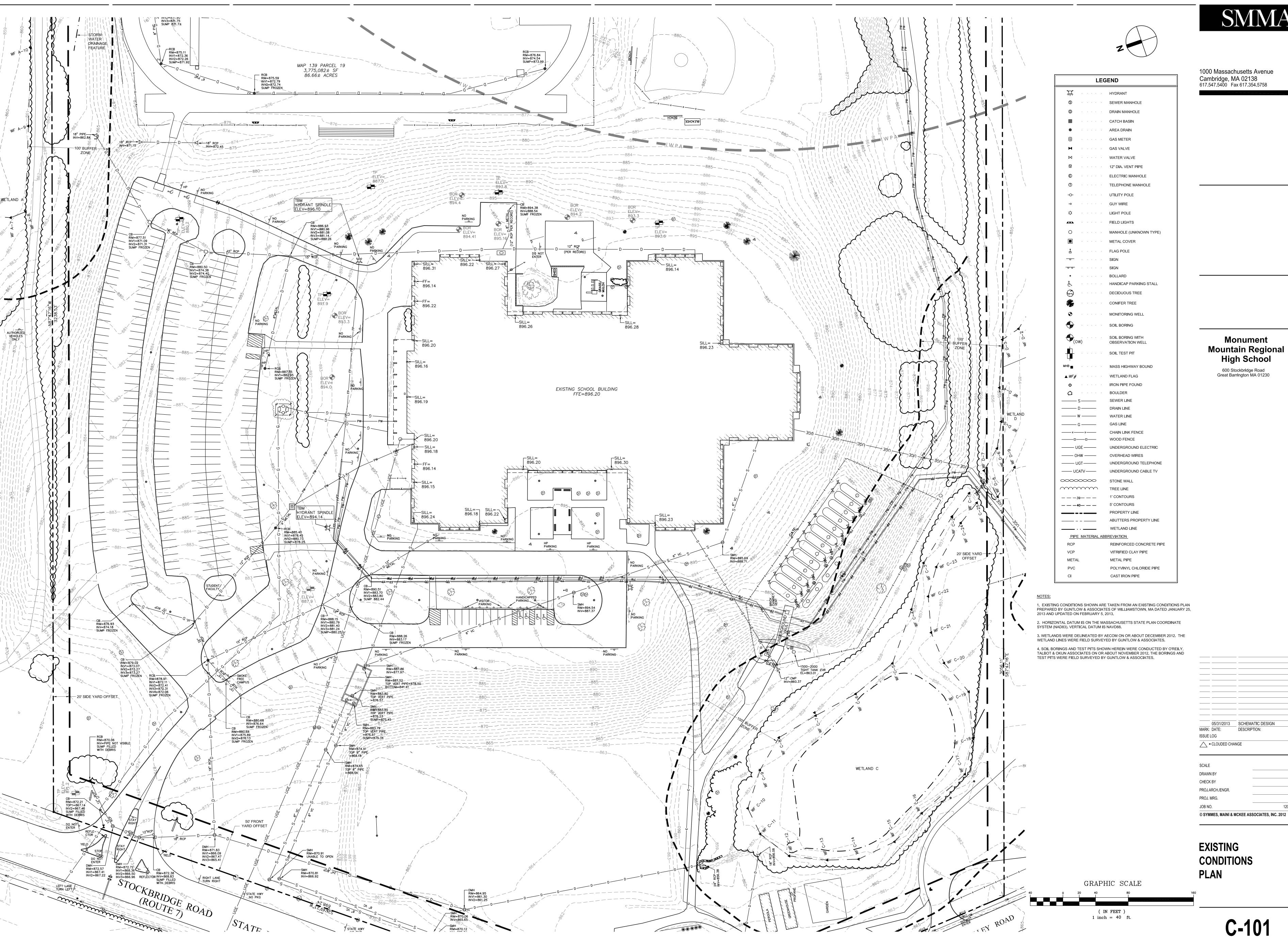


INCORPORATED

Cambridge | Chapel Hill | Providence

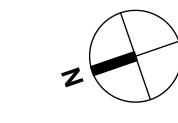
12029.00

ARCHITECTURE ENGINEERING INTERIOR DESIGN PLANNING



10 X:\12029\CADD\c\cs\C12029C101- existing conditions.dwg 5/30/2013 3:07:41 PM





DRAINAGE

REMOVE DRAIN

RIM=877.51 INV1=871.09 INV2=871.31 SUMP FROZEN

SEDIMENT

DMH—
RIM=872.57
INV1=867.41
INV2=867.22

STOCKBRIDGE
ROUTE

ROUTE

ROUTE

RIM=872.72
INV1=868.36
INV2=866.50
INV3=866.96
REFLECTO
WITH

ROUTE

RIM=876.84 INV=874.54 SUMP=873.99

/—MAINTAIN FENCE

— MAINTAIN AND PROTECT WATER LINES

THROUGHOUT CONSTRUCTION

EXISTING SCHOOL BUILDING

896.26

(9)

896.28

-REMOVE DRAIN

MAINTAIN AND— PROTECT SEWER

896.23

LINE (TYP.)

MAP 139 PARCEL 19

—DEMOLISH BLEACHERS

/—/— — *—/*— /— — — —

===<del>|===</del>

---TEMPORARY DRAINAGE SWALE

WITH HAYBALE CHECK DAM

THE DESTRICT OF THE DESTRICT O

896.14 **LINE (TYP.)** 

896.20

REMOVE DRAIN

DMH RIM=864.95 INV1=861.30 INV2=861.25

3,775,082± SF 86.66± ACRES

MAINTAIN FENCE

18" PIPE NV=862.84

18" RCP 1))) | -

— CONTRACTOR STAGING

-8' HIGH TEMPORARY CONSTRUCTION FENCE (TYP.)

SWALE WITH HAYBALE CHECK DAM (TYP.)

─24' WIDE GATE

ENTRANCE - 8' HIGH TEMPORARY

- HAYBALE WITH SILT FENCE

STATE LAW

- CONSTRUCTION FENCE (TYP.)

1000 Massachusetts Avenue Cambridge, MA 02138 617.547.5400 Fax 617.354.5758

**LEGEND** · · · · · FLARED END SECTION · PROPOSED TREELINE · · · · · DRAIN LINE · · · · · CATCH BASIN · · · · · DRAIN MANHOLE · · · · · SPOT GRADE · · · · · EXISTING CONTOUR · PROPOSED CONTOUR · RIPRAP · · · · · CORRUGATED POLYETHYLENE PIPE · · · · · LIMIT OF WORK · REINFORCED CONCRETE PIPE · · · · · POLYVINYL CHLORIDE PIPE · · · · · VEHICLE ACCESS · HAYBALES W/SILT FENCE BUILDING EDGE OF PAVEMENT DIRECTION OF SURFACE RUNOFF REMOVE BITUMINOUS PAVEMENT AND ADJACENT CURBING REMOVE AND CLEAR TREES REMOVE LIGHT POLE · REMOVE TREES TEMPORARY OUTLET STRUCTURE 

HTEMPORARY DRAINAGE SWALE

X—HAYBALE WITH SILT∦

BUFFER

\FENCE\(TYP.)

WETLAND C

WITH HAYBALE CHECK DAM

Monument **Mountain Regional** High School 600 Stockbridge Road Great Barrington MA 01230

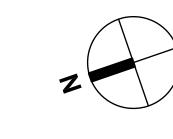
MARK: DATE: ISSUE LOG = CLOUDED CHANGE JOB NO. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

SITE **PREPARATION PLAN** 

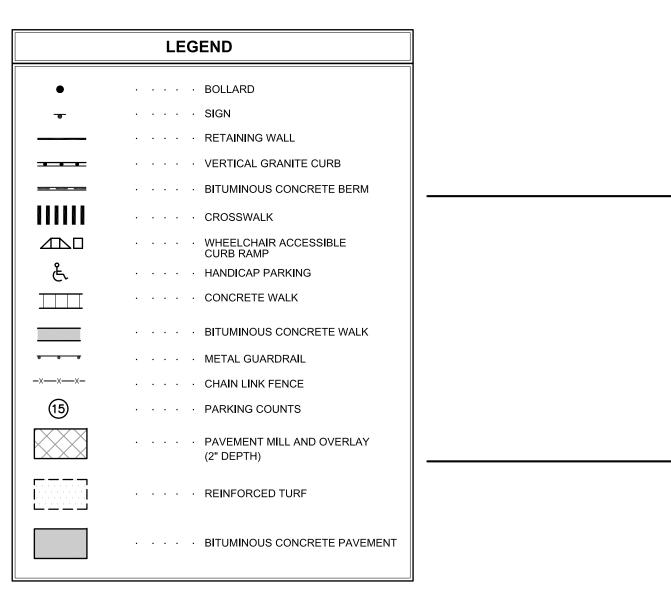
GRAPHIC SCALE ( IN FEET ) 1 inch = 40 ft.

10 X:\12029\CADD\c\cs\C12029C111- site preparation.dwg 5/30/2013 3:09:18 PM





1000 Massachusetts Avenue Cambridge, MA 02138 617.547.5400 Fax 617.354.5758



Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230

LAYOUT &
MATERIALS
PLAN

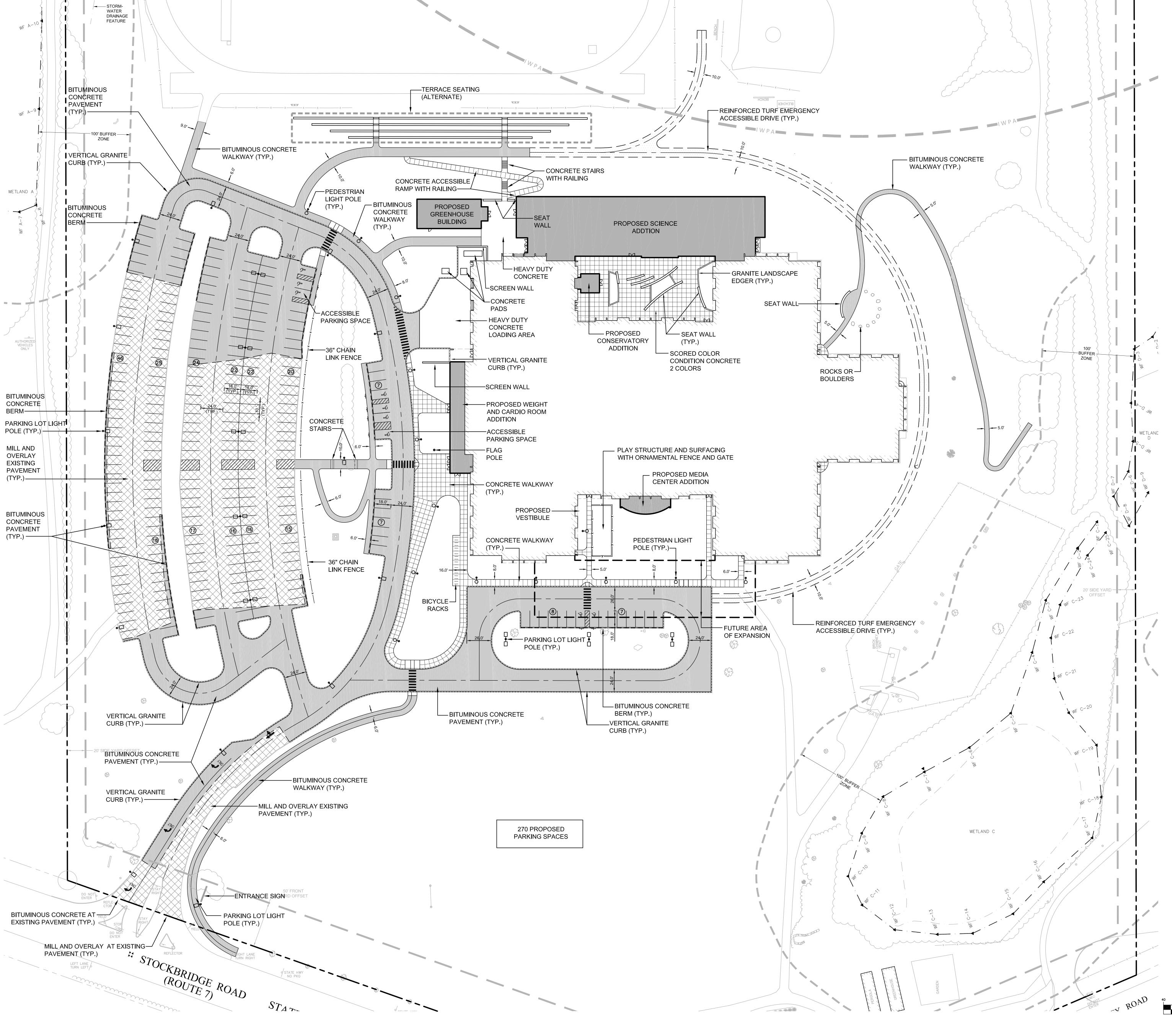
GRAPHIC SCALE

O 20 40 80 160

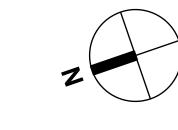
( IN FEET )
1 inch = 40 ft.

10 X:\12029\CADD\c\cs\C12029C121-layout and materials.dwg 5/30/2013 3:10:39 PM

C-121







1000 Massachusetts Avenue Cambridge, MA 02138 617.547.5400 Fax 617.354.5758

	LEGEND
<b></b> FES	· · · · · FLARED END SECTION
wv	· · · · · WATER GATE
TD	· · · · · TRENCH DRAIN
■ SMH	· · · · · SEWER MANHOLE
● DMH	· · · · · DRAIN MANHOLE
_	· · · · · TELEPHONE MANHOLE
● TMH ● EMH	· · · · · ELECTRIC MANHOLE
■ CB	· · · · · CATCH BASIN
<b>■</b> 05	· · · · HYDRANT
	· · · · · WATER LINE
D	· · · · · DRAIN LINE
s_	· · · · · SEWER LINE
—G—	· · · · · GAS LINE
— <sub>E</sub> —	· · · · · ELECTRIC LINE
	· · · · · TELEPHONE LINE
—	· · · · · DOMESTIC SERVICE
—FP—	· · · · · FIRE PROTECTION SERVICE
<u> </u>	· · · · · FORCE MAIN
—RD—	· · · · · ROOF DRAIN
• •	· · · · · OIL WATER SEPARATOR
•	· · · · · DRY WELL
x91.00	· · · · · SPOT GRADE
<del></del> 96 <del></del>	· · · · · CONTOUR
тс	· · · · · TOP OF CURB
вс	· · · · · BOTTOM OF CURB
FFE	· · · · · FINISH FLOOR ELEVATION
RIM	· · · · · RIM ELEVATION
INV	· · · · · INVERT ELEVATION
	· · · · · RIPRAP
CMP	· · · · · CORRUGATED METAL PIPE
PVC	· · · · · POLYVINYL CHLORIDE PIPE
RCP	· · · · · REINFORCED CONCRETE PIPE
CPP	· · · · · CORRUGATED POLYETHYLENE PIPE
CLDIP	· · · · · CEMENT LINE DUCTILE IRON PIPE
• PIV	· · · · · POST INDICATOR VALVE
RD	· · · · · ROOF DRAIN
CI	· · · · · CAST IRON
■ DI	· · · · · DRAIN INLET
•CO	CLEAN OUT

Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230

NOTES:
1. ALL DRAIN PIPES ARE 12" CPE UNLESS OTHERWISE NOTED.

GRADING & UTILITIES PLAN

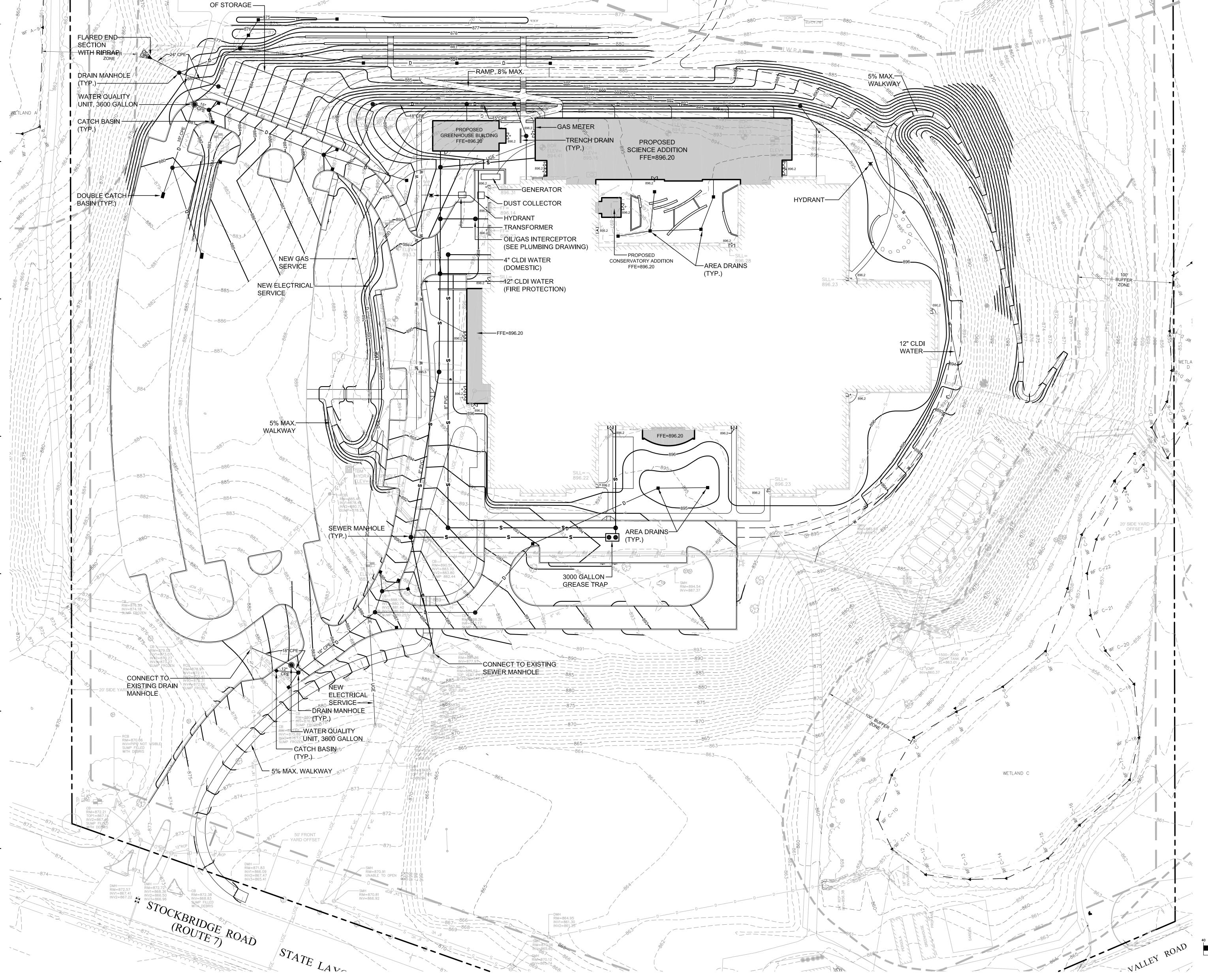
GRAPHIC SCALE

O 20 40 80

( IN FEET )
1 inch = 40 ft.

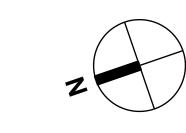
C-141

10 X:\12029\CADD\c\cs\C12029C141-grading and utilities.dwg 5/30/2013 3:12:02 PM



INFILTRATION AREA (154'L X 37'W X 7'H) 900 CUBIC FEET





LIMIT OF SEED

WETLAND C

100' BUFFER ZONE

STORM-WATER DRAINAGE FEATURE

—100' BUFFER — ZONE

∠⊬LAWN —

STOCKBRIDGE ROAD

STATE

878

PROPOSED GREENHOUSE BUILDING FFE=896.20

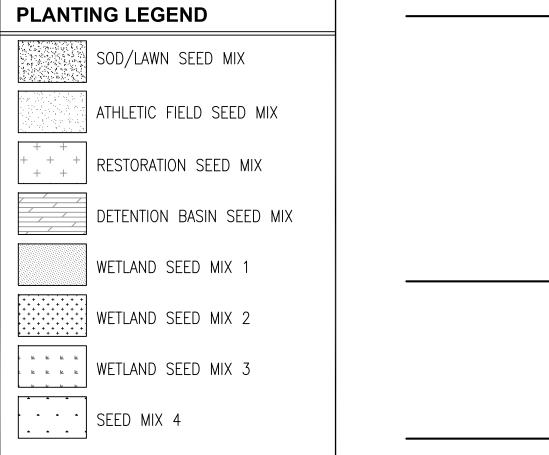
PROPOSED
CONSERVATORY ADDITION —
FFE=896.20

LIMIT OF SEED

PROPOSED SCIENCE ADDITION FFE=896.20

—— SHRUBS - TYPICAL

1000 Massachusetts Avenue Cambridge, MA 02138 617.547.5400 Fax 617.354.5758



Monument
Mountain Regional
High School

600 Stockbridge Road Great Barrington MA 01230

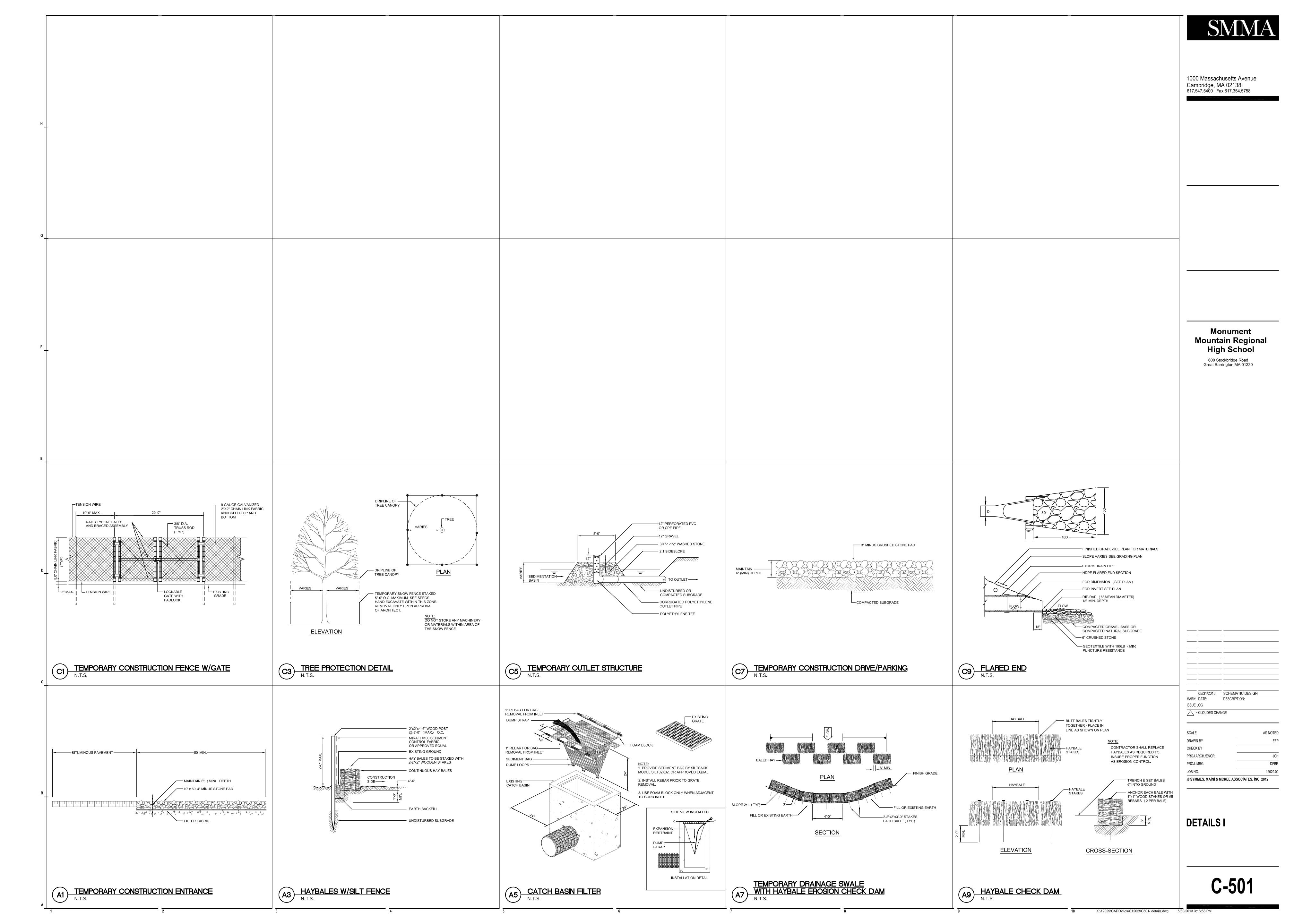
PLANTING PLAN

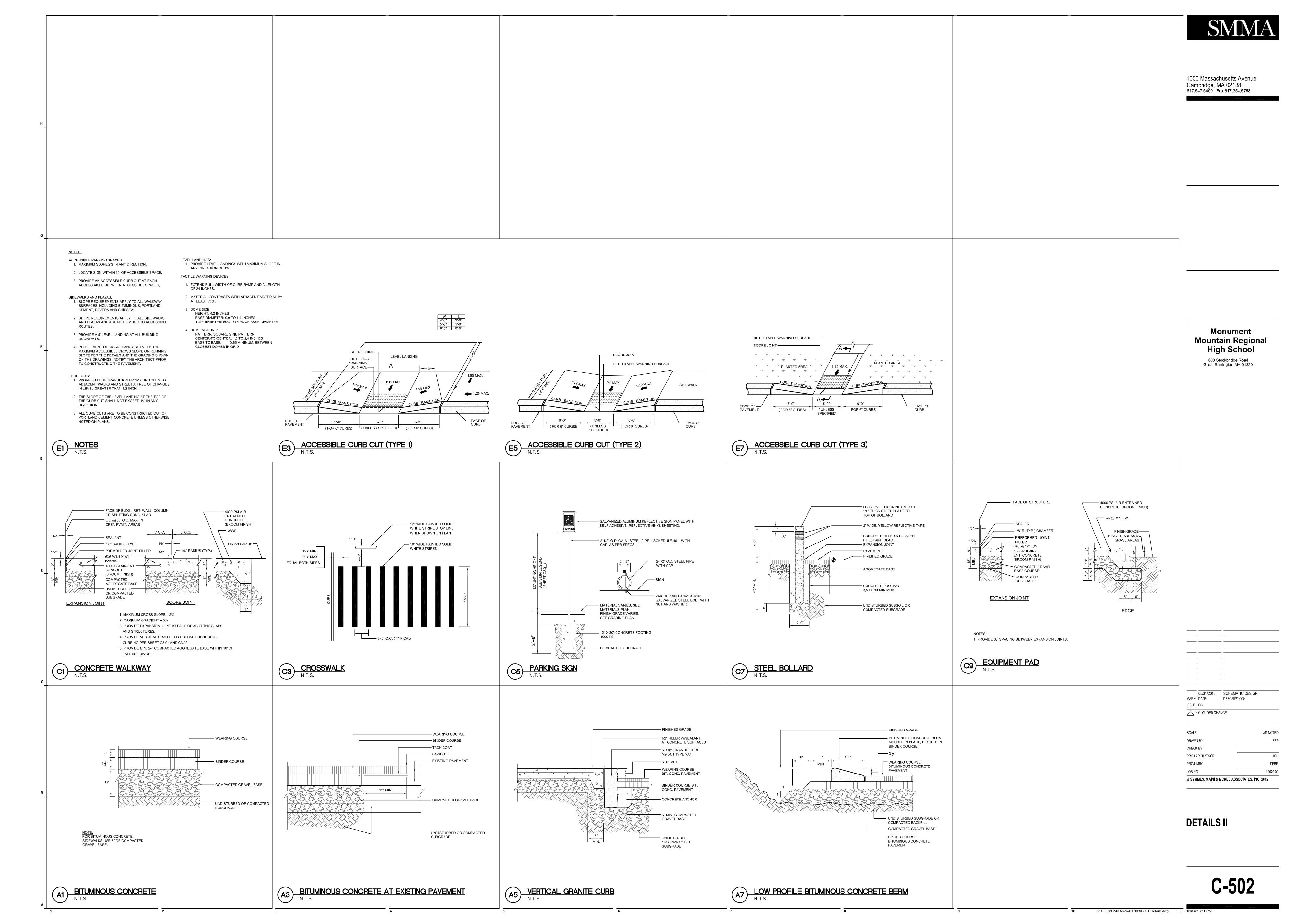
GRAPHIC SCALE

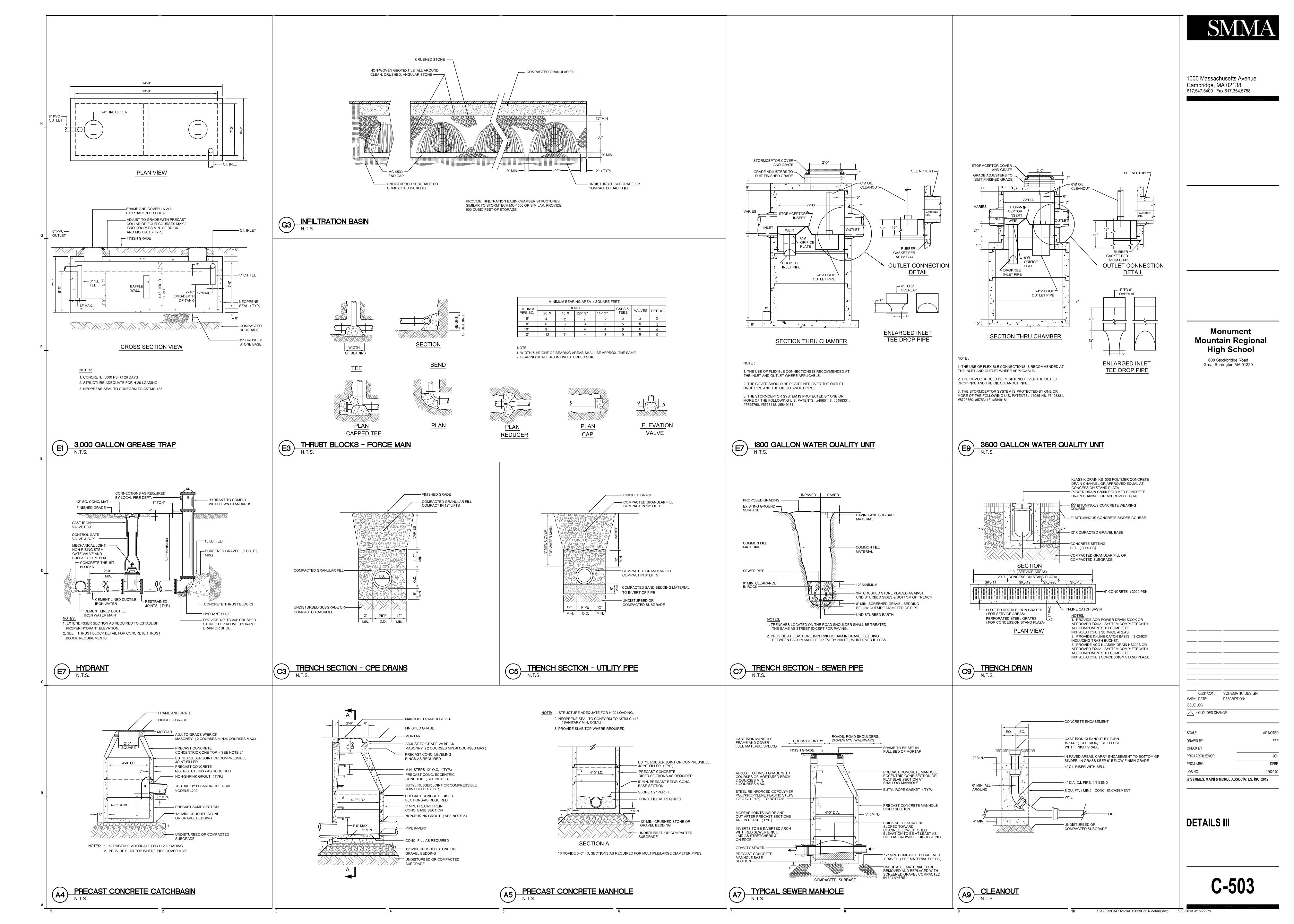
( IN FEET )
1 inch = 40 ft.

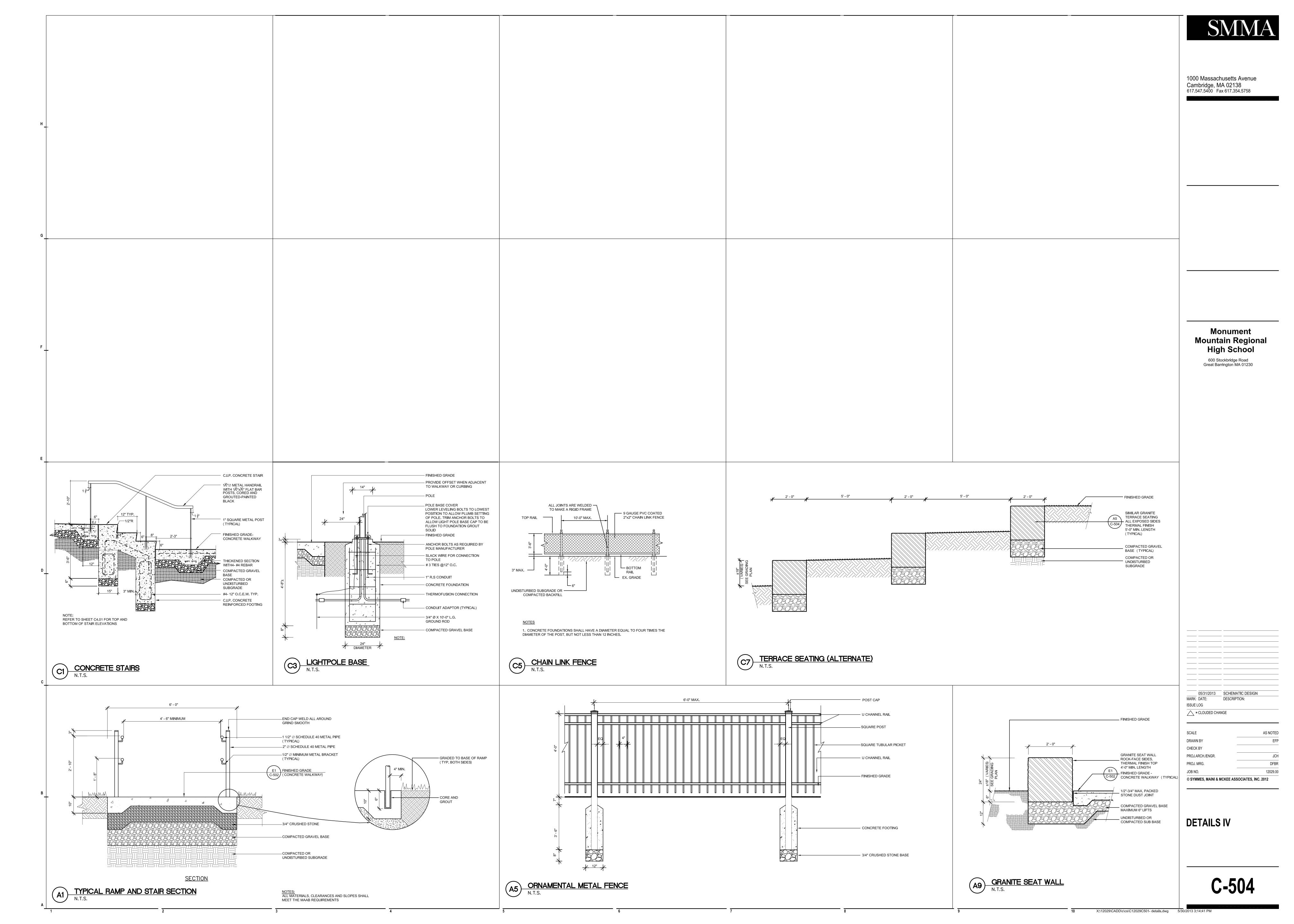
X:\12029\CADD\c\cs\C12029C151- planting.dwg 5/30/2013 3:13:29 PM

C-151









MARGO JONES

Architects

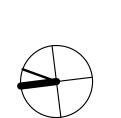
STAMPS

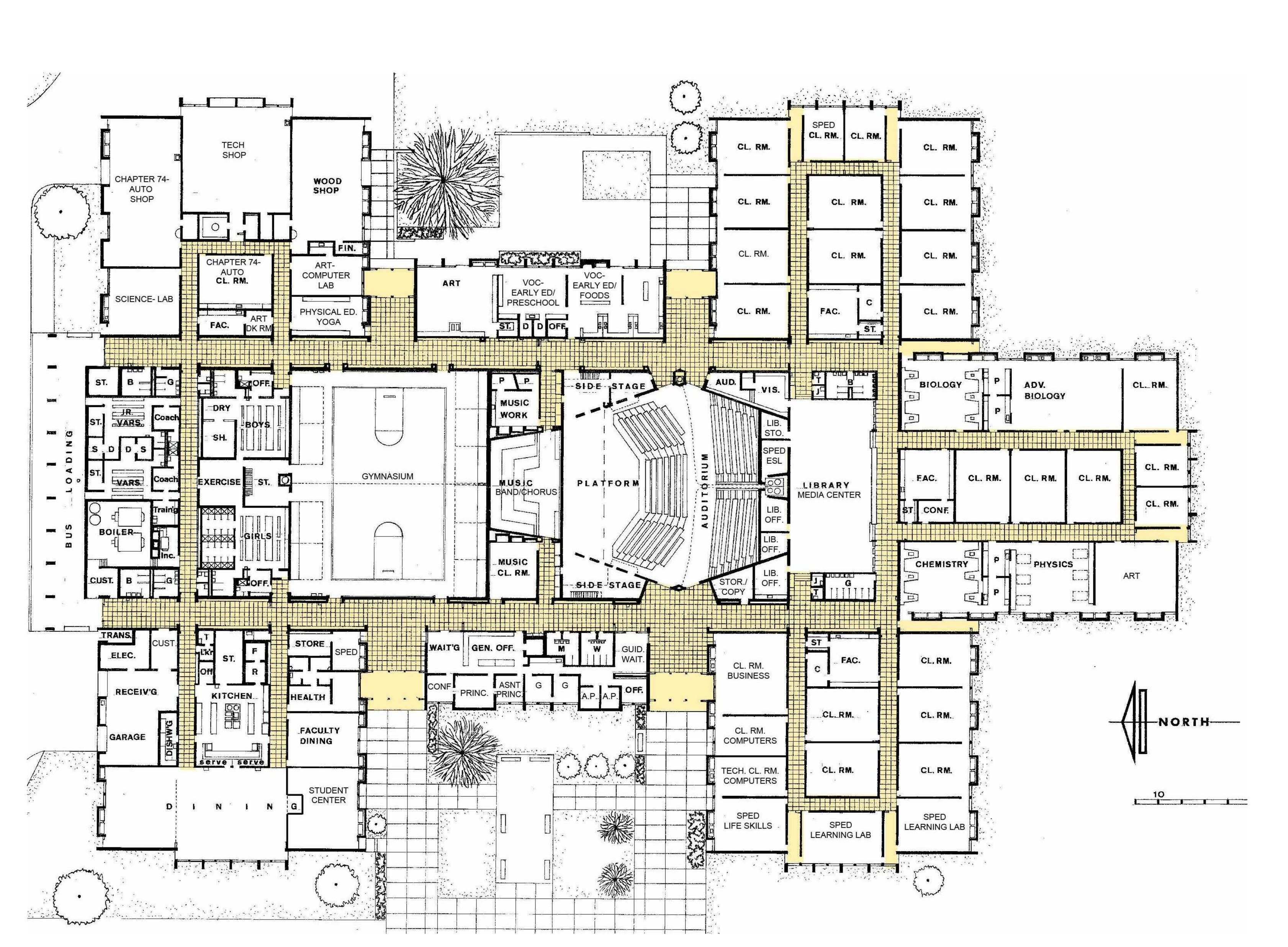
Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230

EXISTING FIRST FLOOR PLAN

X101





**DEMOLITION PLAN LEGEND:** 

EXISTING WALLS TO REMAIN

EXISTING WALLS TO BE DEMOLISHED

SYMMES MAINI & McKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920

MARGO JONES

Architects

STAMPS

Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230

DESCRIPTION:

ISSUE LOG

SCALE

As indicated

DRAWN BY

CHECK BY

CHECK BY

PROJ.ARCH./ENGR.

PROJ. MRG.

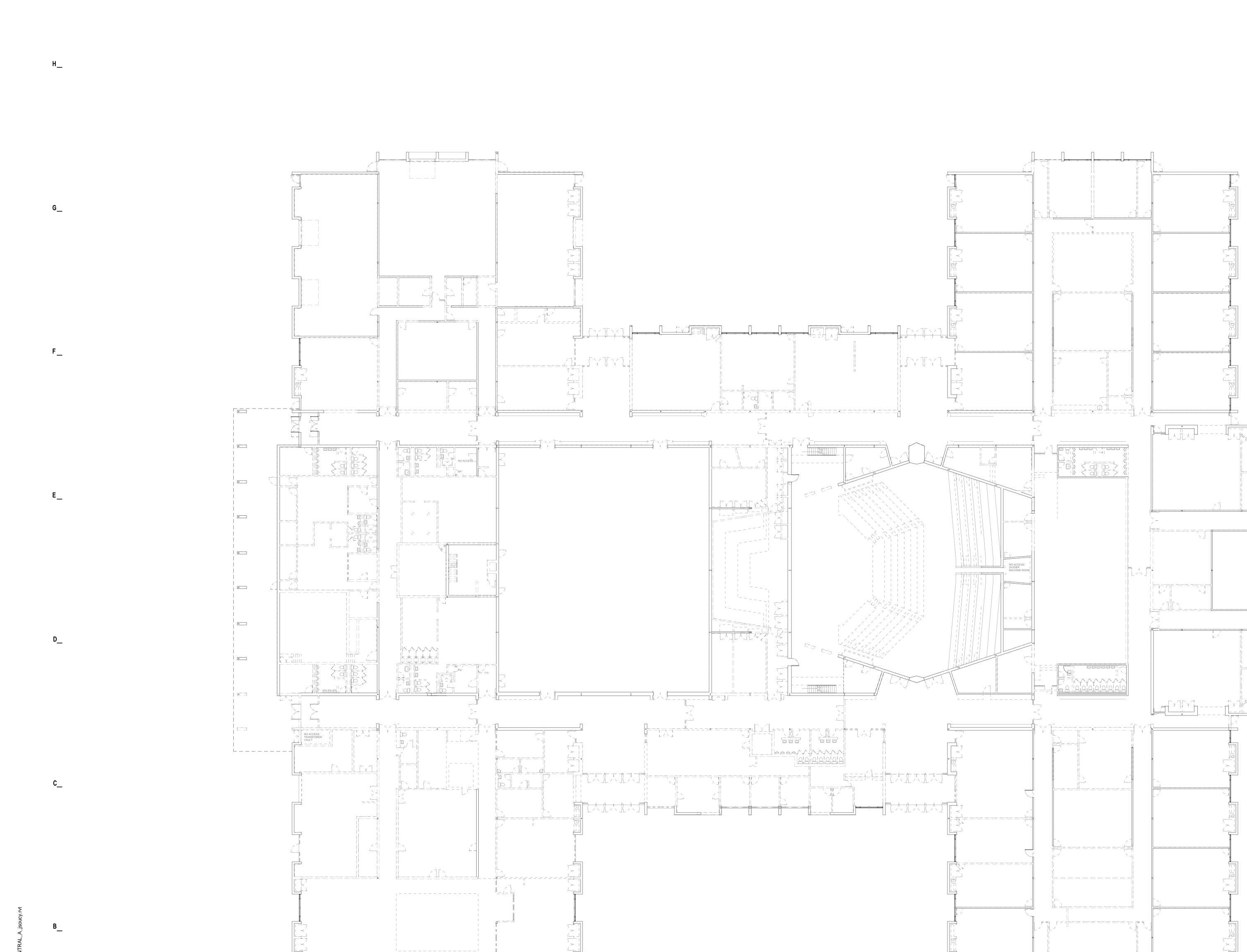
JOB NO.

12029.00

© SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

FIRST FLOOR DEMOLITION PLAN

AD101



MARGO JONES

Architects

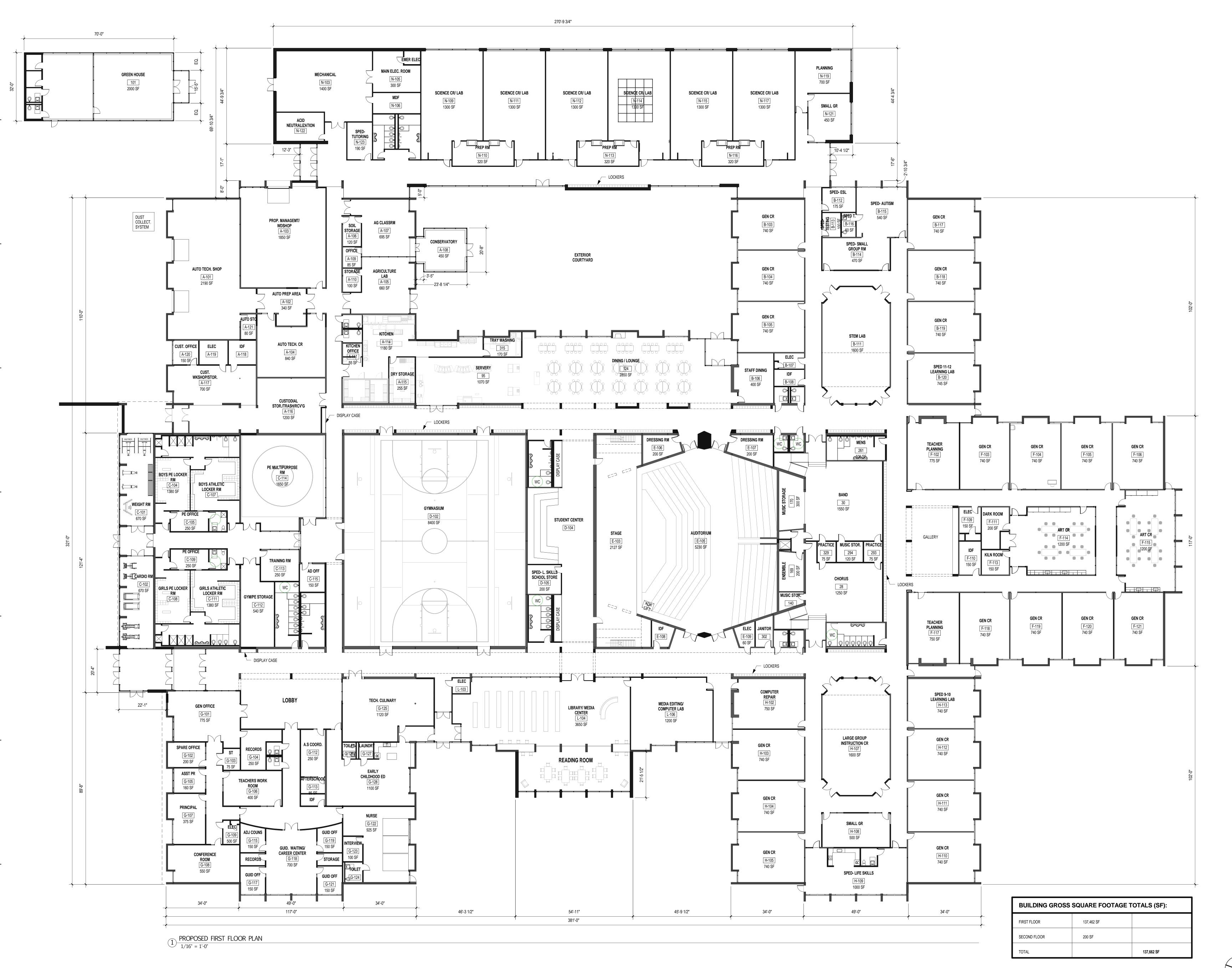
STAMPS

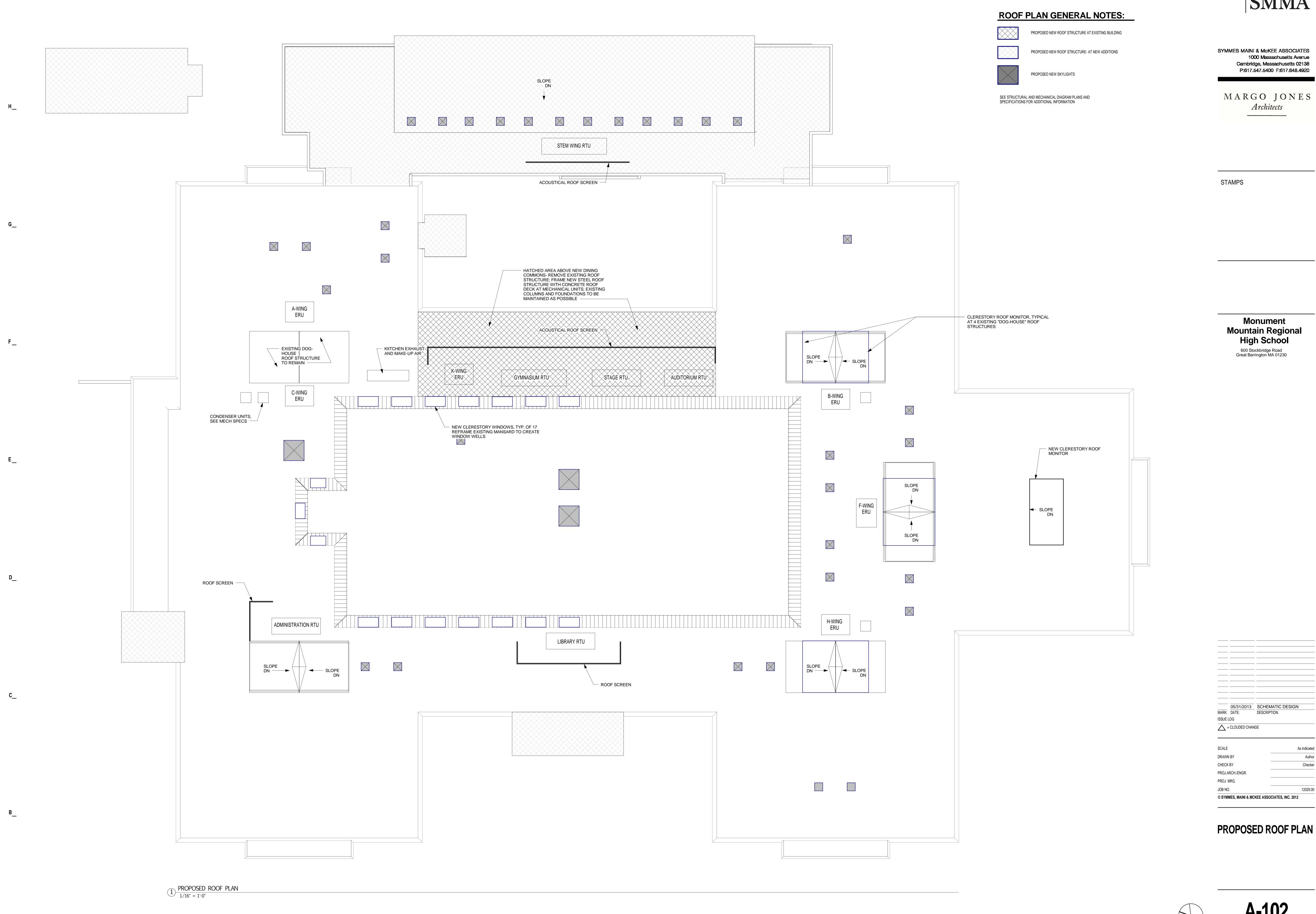
Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230

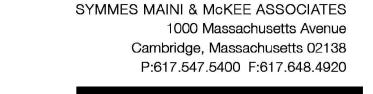
PROPOSED FLOOR PLANS





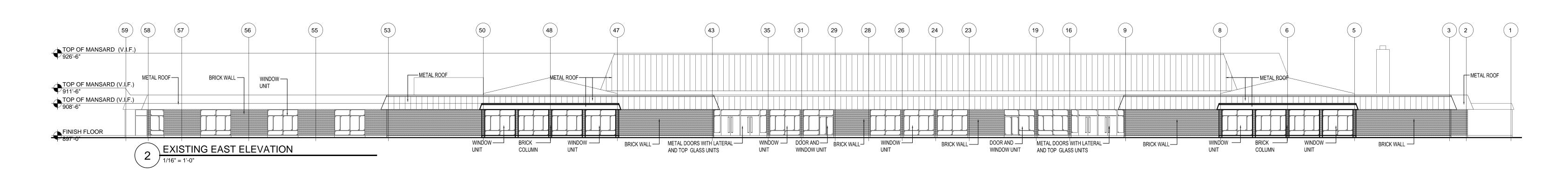


# SMMA









METAL DOOR BRICK BRICK COLUMN

DAMAGED BRICK AT COLUMN FOUNDATION

└─ METAL DOOR

DAMAGED BRICK AT METAL COLUMN FOUNDATION LOUVER

GLASS — METAL DOORS WITH METAL DOORS WITH GARAGE DOOR DOOR, WINDOW BRICK WALL AND PANEL UNIT

DAMAGED BRICK

METAL ROOF -

METAL DOOR WITH
LATERAL GLASS UNITS

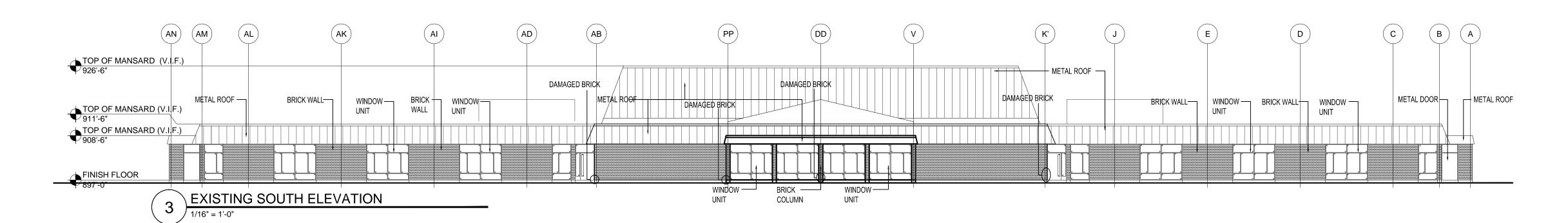
WALL VENT ———

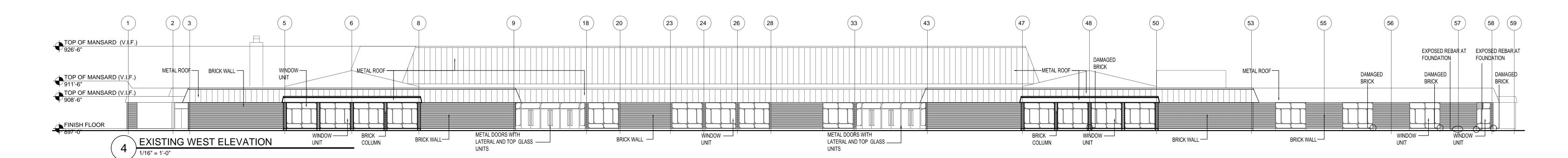
METAL ROOF

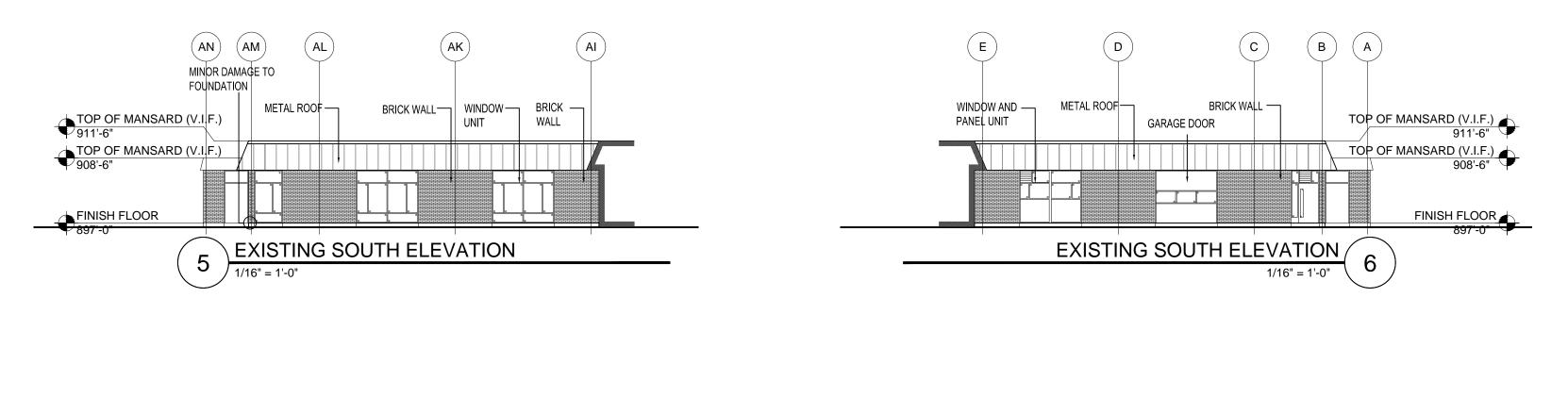
METAL DOORS WITH — LATERAL GLASS UNITS

DAMAGED BRICK AT COLUMN

FOUNDATION







 $ig( egin{array}{c} \egin{array}{c} egin{array}{c} egin{array}{c} egin{array}{c} \egin{array}{c} egin{array}{c} \egin{array}{c} \egin{a$ 

FOUNDATION DAMAGE

METAL ROOF —

BRICK WALL—

EXISTING NORTH ELEVATION GARAGE DOOR

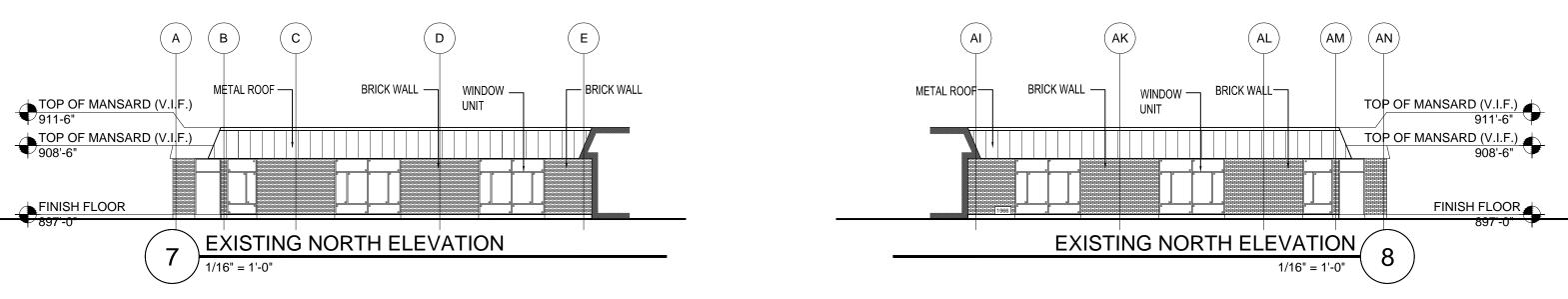
1/16" = 1'-0"

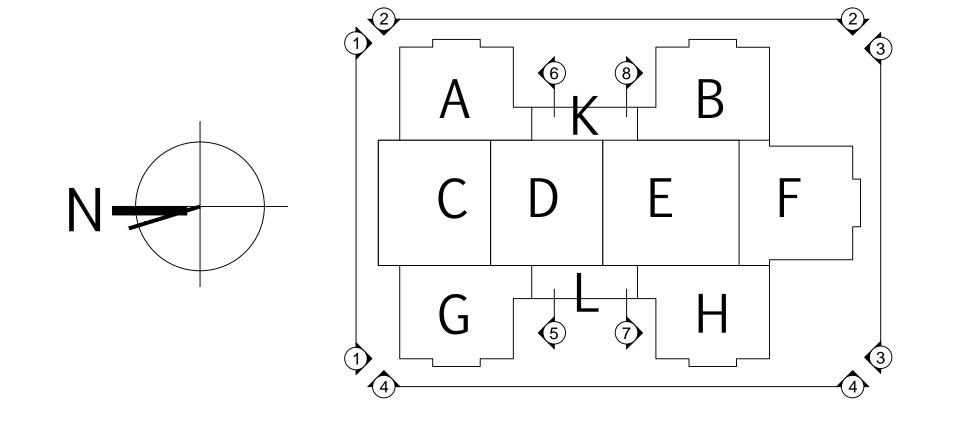
TOP OF MANSARD (V.I.F.) 926'-6"

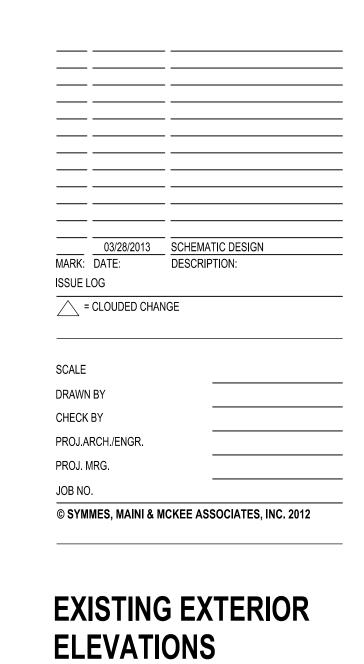
TOP OF MANSARD (V.I.F.)

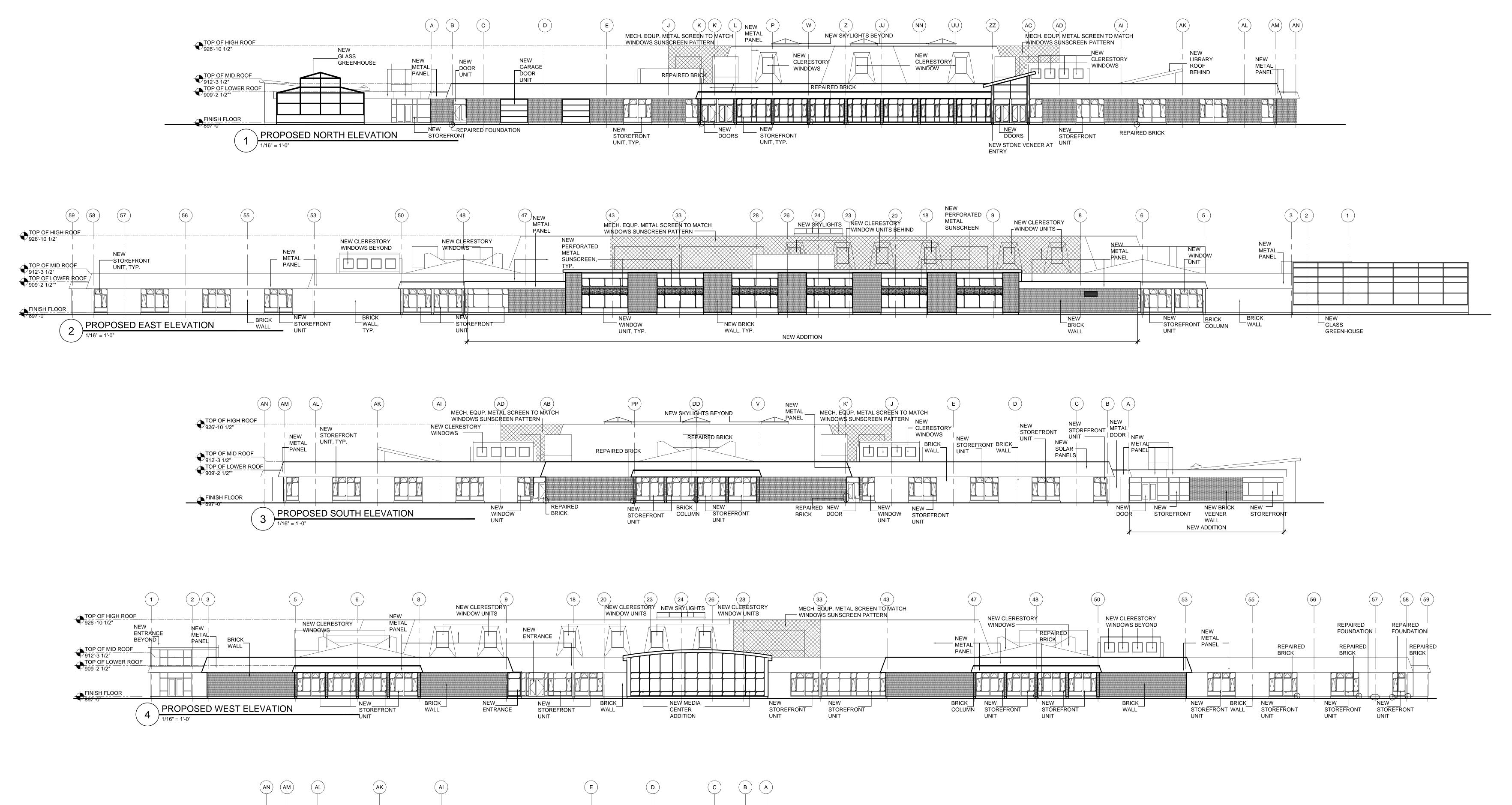
TOP OF MANSARD (V.I.F.) 908'-6"

FINISH FLOOR









GLASS | NEW GREENHOUSE | METAL

STOREFRONT NEW

PROPOSED NORTH ELEVATION

1/16" = 1'-0"

8

PROPOSED SOUTH ELEVATION

PANEL —

1/16" = 1'-0"

TOP OF MID ROOF 912'-3 1/2"

FINISH FLOOR

NEW — ENTRANCE

TOP OF MID ROOF 912'-3 1/2" TOP OF LOWER ROOF 909'-2 1/2""

STOREFRONT
UNIT FINISH FLOOR
897-0

NEW STOREFRONT UNIT

NEW STOREFRONT UNIT

BRICK WALL

REPAIRED FOUNDATION

TOP OF MID ROOF 912'-3 1/2" TOP OF LOWER ROOF 909'-2 1/2""

TOP OF MID ROOF 912'-3 1/2"

FINISH FLOOR 897-0

FINISH FLOOR 897 -0 NEW

METAL

PANEL

STOREFRONT

PROPOSED SOUTH ELEVATION

1/16" = 1'-0"

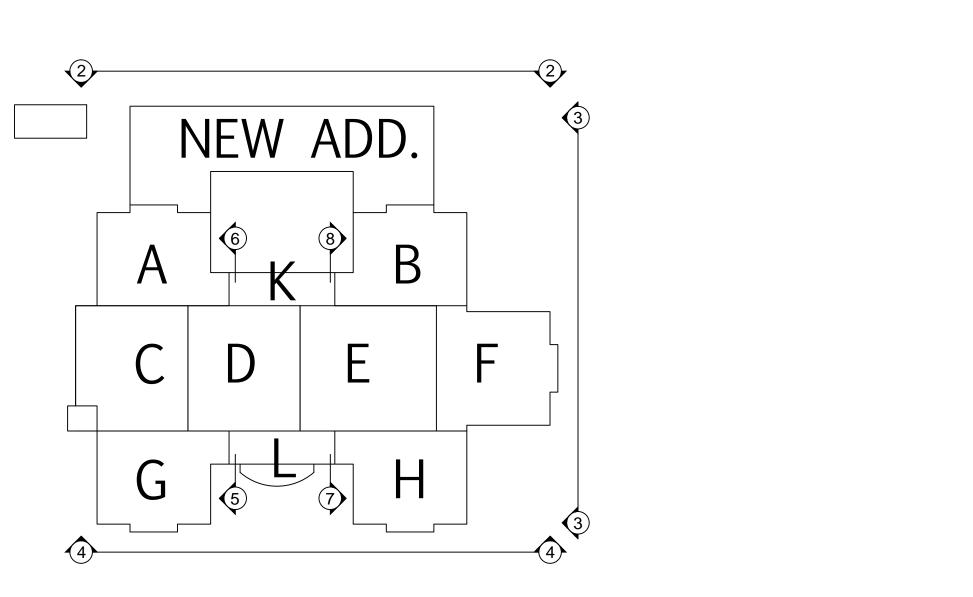
STOREFRONT

PROPOSED NORTH ELEVATION

1/16" = 1'-0"

ENTRANCE BRICK

STOREFRONT



PROPOSED EXTERIOR ELEVATIONS

© SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

ISSUE LOG

SCALE

JOB NO.

= CLOUDED CHANGE

SMMA

1000 Massachusetts Avenue

Cambridge, Massachusetts 02138

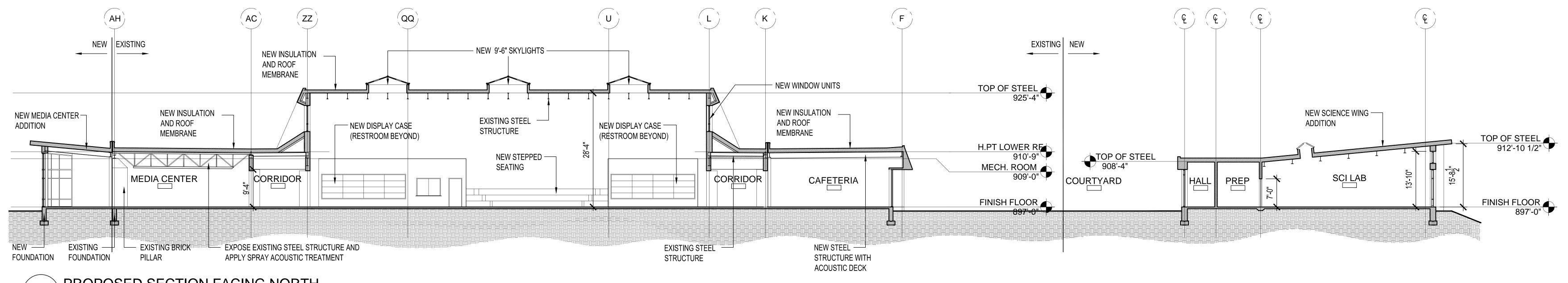
P:617.547.5400 F:617.648.4920

SYMMES MAINI & McKEE ASSOCIATES

MARGO JONES

Architects

STAMPS



MARGO JONES

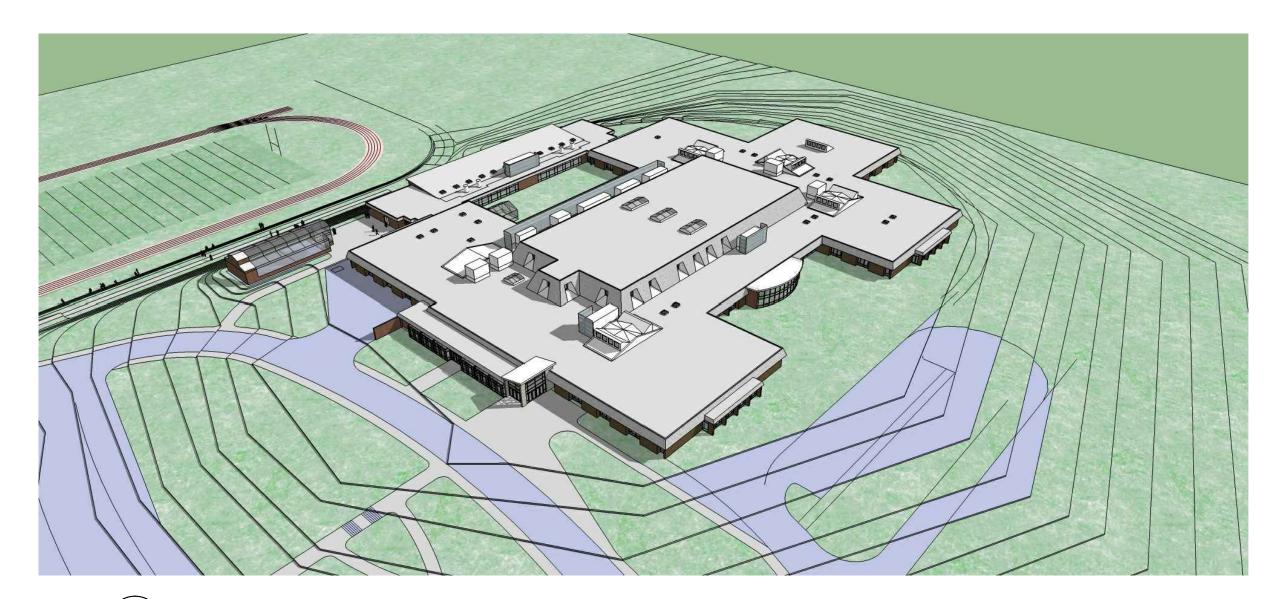
**Architects** 

STAMPS

PROPOSED SECTION FACING NORTH 1/16" = 1'-0"

> NEW INSULATION \_\_\_\_ AND ROOF NEW CLERESTORY NEW CLERESTORY MEMBRANE WINDOWS NEW INSULATION AND ROOF MEMBRANE NEW METAL PANEL AND INSULATION TOP OF STEEL 910'-9" EXISTING STEEL WF — 🛱 REINFORCEMENT STEEL TRUSS FINISH FLOOR EXISTING FOUNDATION

TYPICAL CLERESTORY HOUSE SECTION



3 BIRD'S EYE VIEW

PROPOSED MEDIA CENTER



BIBBI

PROPOSED SCIENCE WING

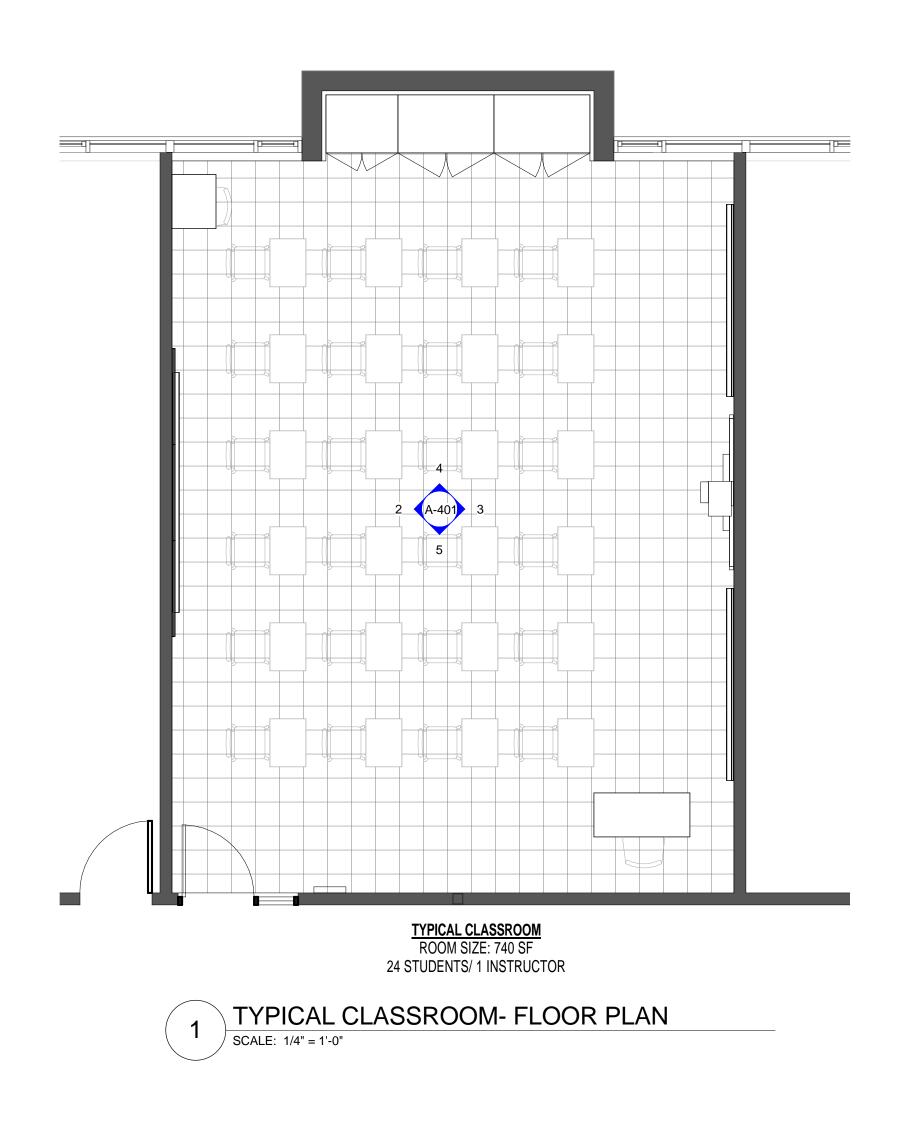
PROPOSED ENTRANCE

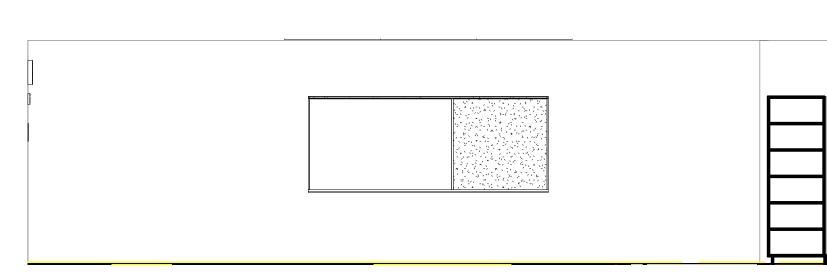
**PROPOSED BUILDING SECTIONS** & MASSING MODEL **IMAGES** 

© SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

= CLOUDED CHANGE

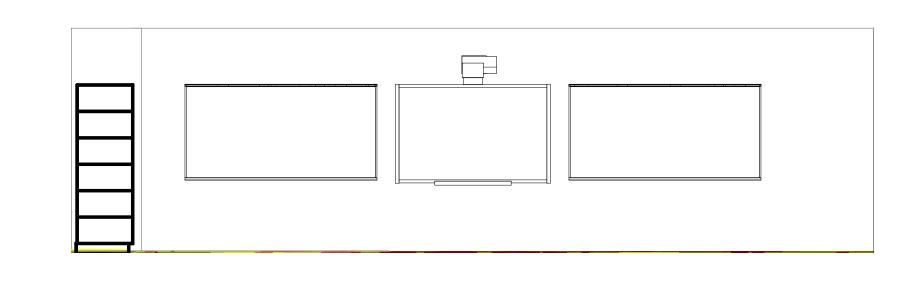
A-301





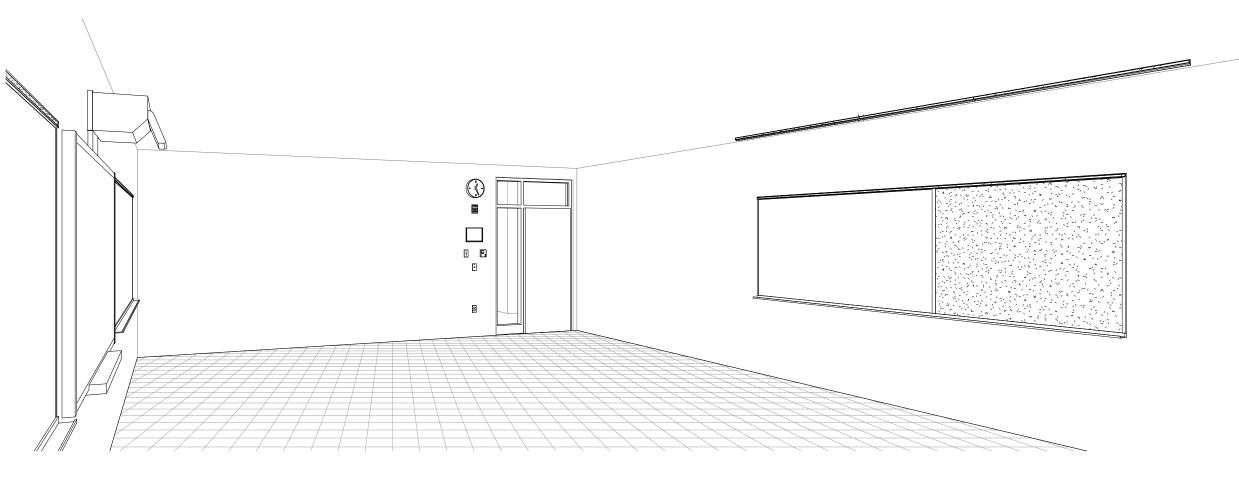
2 TYPICAL CLASSROOM- NORTH ELEVATION

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

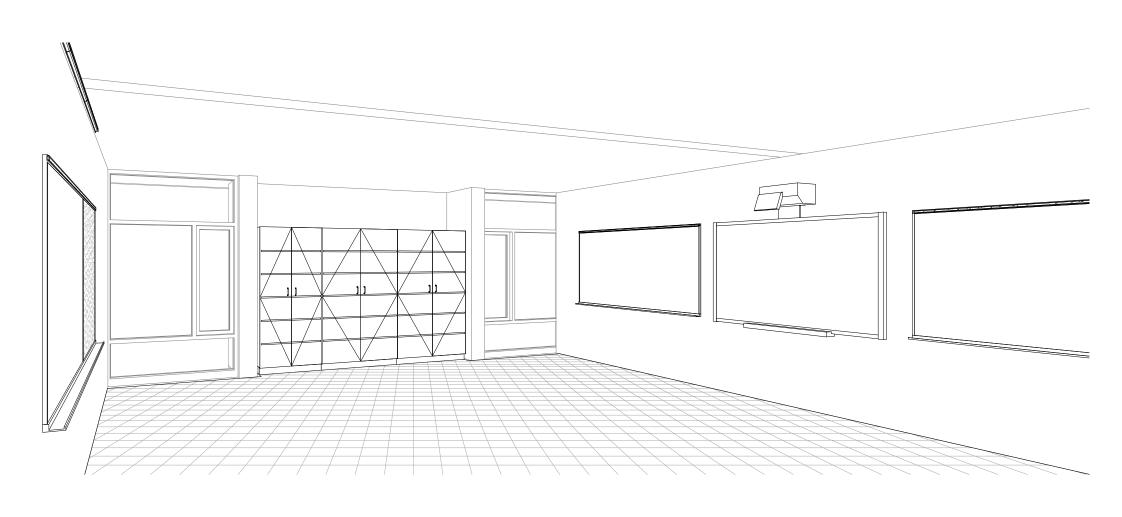


3 TYPICAL CLASSROOM- SOUTH ELEVATION

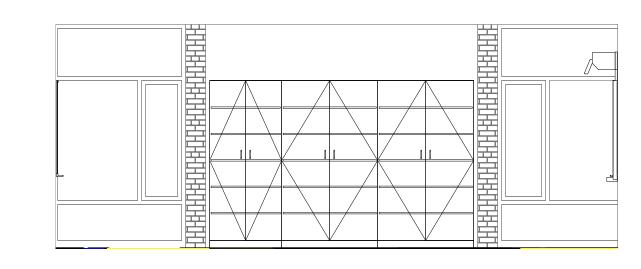
SCALE: 1/4" = 1'-0"



6 TYPICAL CLASSROOM- VIEW 1



7 TYPICAL CLASSROOM- VIEW 2
SCALE:



4 TYPICAL CLASSROOM- EAST ELEVATION
SCALE: 1/4" = 1'-0"



5 TYPICAL CLASSROOM- WEST ELEVATION

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

### **CLASSROOMS- GRADES** 9-12

FUNCTIONAL CRITERIA:

Description: General Instructional Classrooms for Grades 9-12 Area: 740 SF Quantity: 20

Occupant Load: 25 (24 Students + 1 Teacher)

LOCATIONAL CRITERIA:

Users: Teachers, Students Adjacency: Grouped by Department Orientation/ Views: Varies

TECHNICAL CRITERIA: Floor: VCT Walls: Painted Ceilings: Acoustical Acoustical: Windows: Storefront system Mechanical: Low noise
Plumbing/FP: Sprinkler heads Lighting:
Electrical: Clock system
Communication: Telephone, internet access

FIXTURES/ FURNISHINGS:

Casework/ Specialties: Furnishings: 1 teachers' desk, 2 task chairs, 24 student stacking chairs, 24 student desks, 1 computer table, 1 small group table
Equipment: 1 teachers' computer, 1 student computer, 1 printer, 2 white boards, 1 smart board, 1 tackboard

Shelving/ Storage: 3 tall storage cabinets

SMMA

SYMMES MAINI & McKEE ASSOCIATES 1000 Massachusetts Avenue

MARGO JONES Architects

Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920

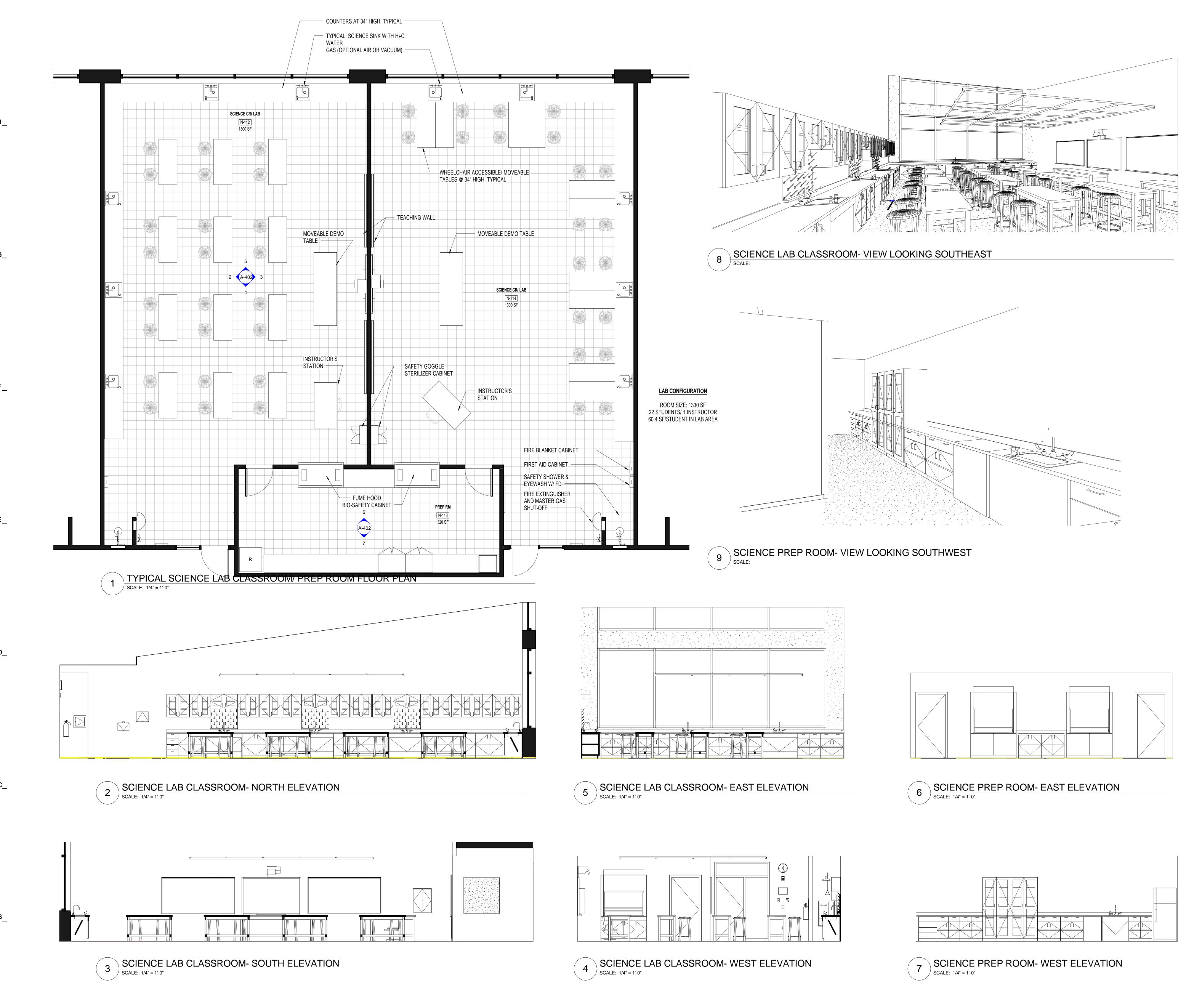
STAMPS

**Monument** Mountain Regional
High School 600 Stockbridge Road Great Barrington MA 01230

MARK: DATE: SCHEMATIC DESIGN DESCRIPTION: = CLOUDED CHANGE © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

TYPICAL CLASSROOM-**ENLARGED PLAN & ELEVATIONS** 





SMMA

SYMMES MAINI & McKEE ASSOCIATES

1000 Massachusetts Avenue

Cambridge, Massachusetts 02138

P:617.547.5400 F:617.648.4920

MARGO JONES

Architects

Description: General Science Instructional Lab Classrooms for Grades 9-12 Area: 1,300 SF

Occupant Load: 25 (24 Students + 1 Teacher)

Users: Teachers, Students Adjacency: Grades Grouped

TECHNICAL CRITERIA:

Floor: VCT Walls: Painted Ceilings: Acoustical
Acoustical: (STC) Requirements of ANSI Standard
S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools Background noise level reduced to 40 dBA or less Doors: Solid core wood doors with sidelite Windows: Storefront system Mechanical: Low noise Plumbing/FP: Low flow faucet, sprinkler heads Lighting: Direct/ Indirect suspended Electrical: Clock system Communication: Telephone, internet access

lab tables (34"H) Equipment: 1 teachers' computer, 3 student computers, 1 printer, 2 white boards, 1 smart board, 2 fire extinguishers, 2 master gas shut-offs, 1 first aid cabinet, 1 safety shower and eyewash station, 1 safety goggle cabinet, 1 fire blanket cabinet,

#### SCIENCE LAB PREP ROOM-**GRADES 9-12**

FUNCTIONAL CRITERIA:

Description: Science Lab Prep Room for Grades 9-12 Area: 300 SF

Occupant Load: 2 Teachers LOCATIONAL CRITERIA:

Users: Teachers, Students

Adjacency: Science Lab Classrooms Orientation/ Views: None

TECHNICAL CRITERIA:

Floor: VCT Walls: Painted Ceilings: Acoustical Acoustical: N/A Doors: Solid core wood Windows: N/A Mechanical: Low noise Plumbing/FP: Low flow faucet, sprinkler heads Lighting: Electrical: Clock system Communication: Telephone, internet access

FIXTURES/ FURNISHINGS:

Casework/ Specialties: base cabinets with countertop, overhead storage with glass doors Equipment: 2 fume hoods, 1 refrigerator, 1 dishwasher, 1 student computer, 1 printer, telephone Storage/ Shelving: base and overhead cabinets, 2 full height storage units

SCIENCE LAB CLASSROOM-**GRADES 9-12** 

FUNCTIONAL CRITERIA:

Quantity: 6

LOCATIONAL CRITERIA:

Orientation/ Views: East

FIXTURES/ FURNISHINGS:

Casework/ Specialties: Furnishings: 1 teachers' desk, 1 teachers' lab bench, 2 task chairs, 24 student stools, 10 lab tables (36"H), 2

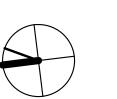
telephone
Shelving/ Storage: perimeter base and overhead cabinets with glass doors

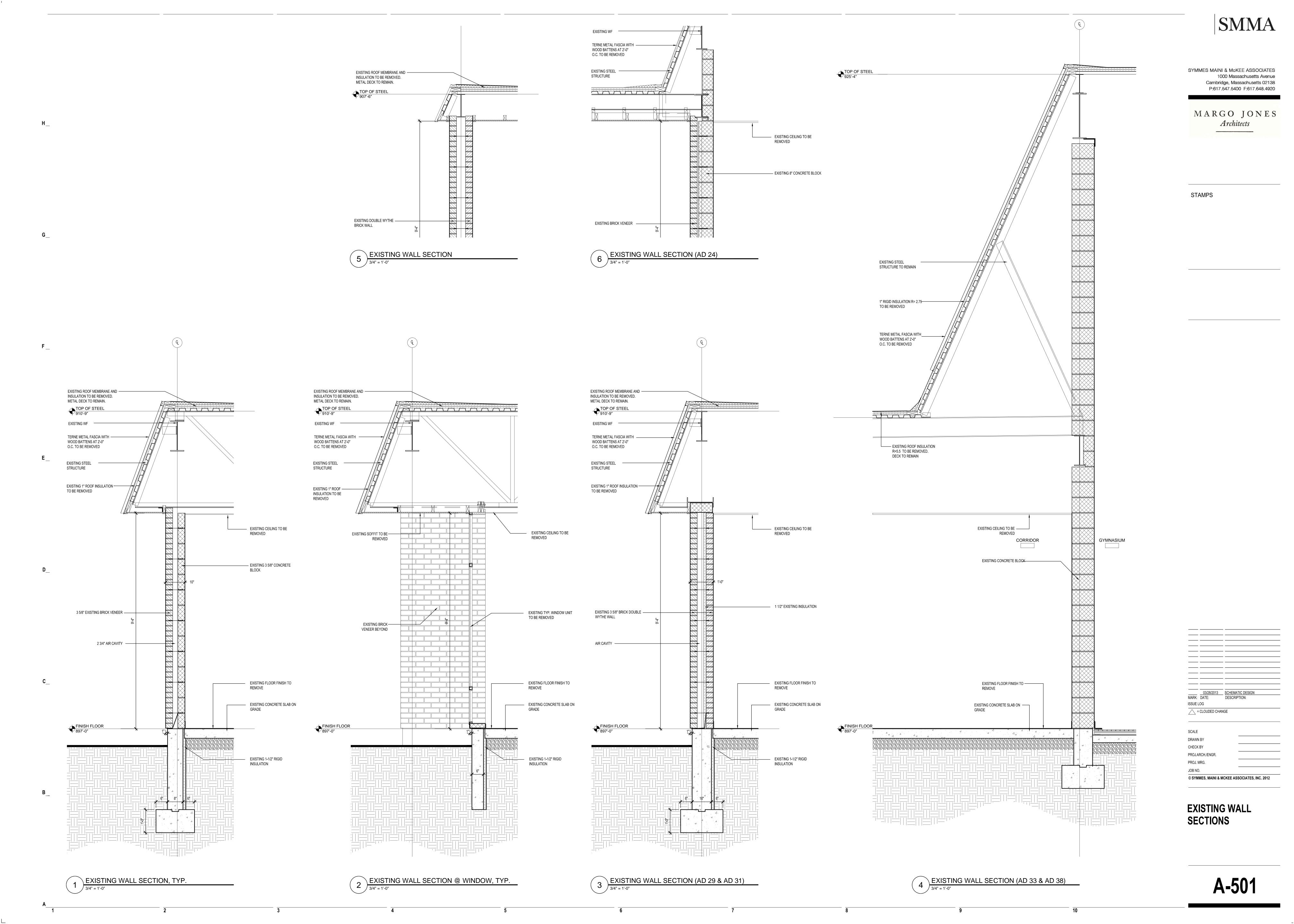
**Monument Mountain Regional** High School 600 Stockbridge Road Great Barrington MA 01230

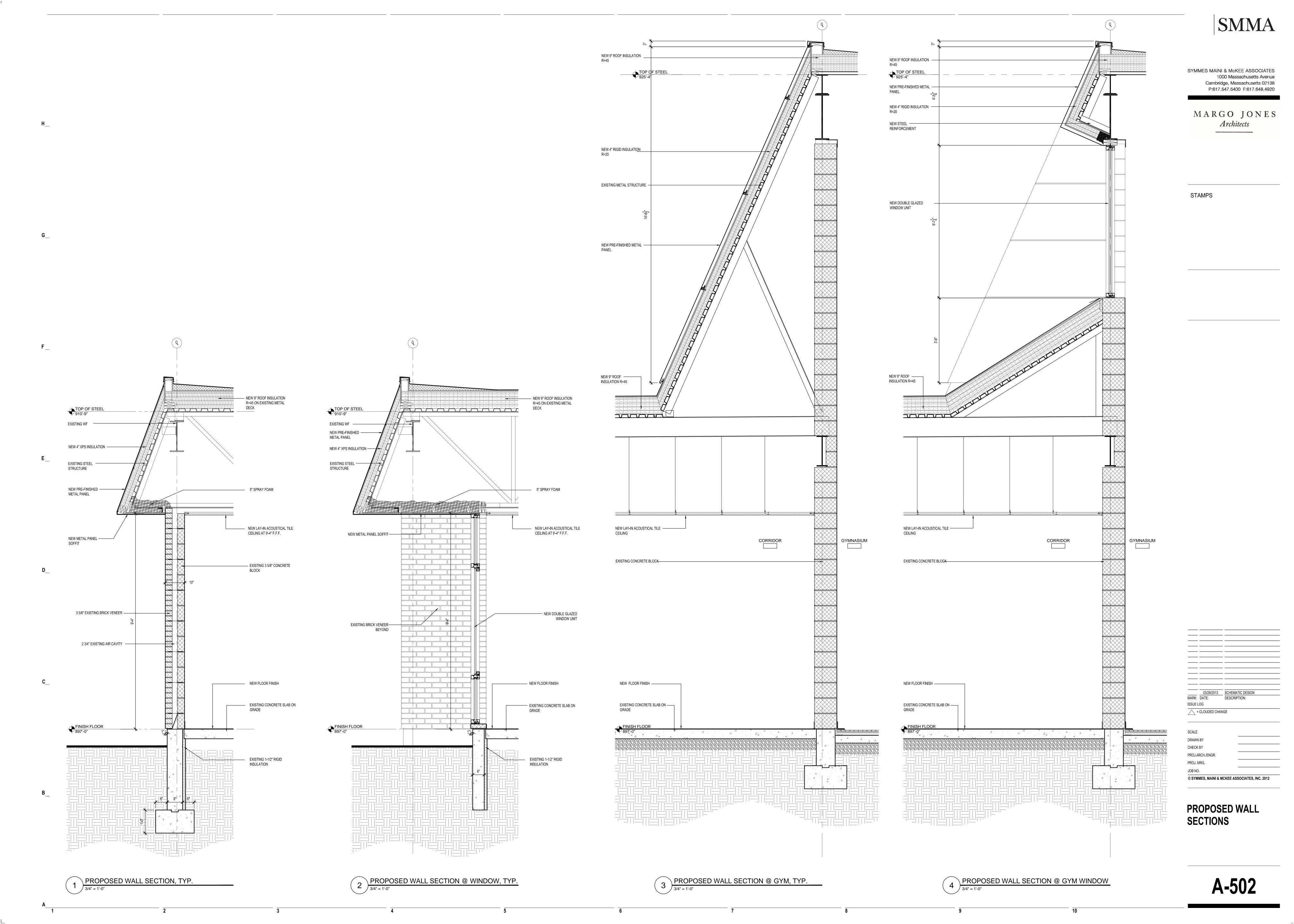
STAMPS

05/31/2013 SCHEMATIC DESIGN MARK: DATE: DESCRIPTION: ISSUE LOG = CLOUDED CHANGE PROJ. MRG. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

TYPICAL SCIENCE LAB **CLASSROOM & PREP ROOM- ENLARGED PLAN & ELEVATIONS** 







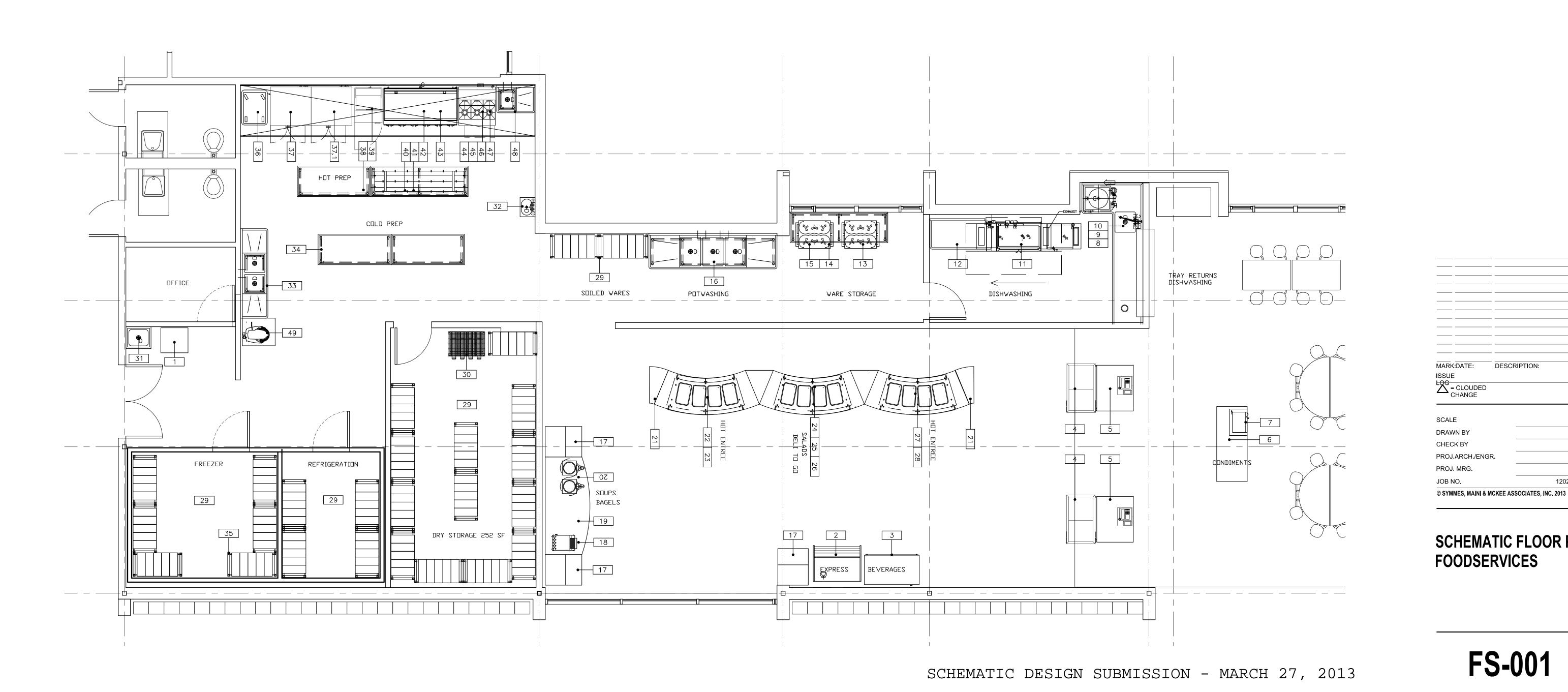


STAMPS



**Monument Mountain Regional** High School 600 Stockbridge Road Great Barrington MA 01230

60,000



EQUIPMENT SCHEDULE

20.4 4.2 208 1 60 X 6-30P 4.2 0.5 120 1 60 X 27 22 4.2 208 1 60 X 31 3LE 7.5 0.25 115 1 60 X 31 1LE 22 4.2 208 1 60 X 31 1LE 31 1 60 X 31

208 1 60 X 96

208 1 60 X 96

208 1 60 X 96

13.7 208 3 60 X 96

13.7.4 208 1 60 X 96

13.7.4 208 1 60 X 96

19.9 0.5 120 1 60 X 96

19.9 0.5 120 1 60 X 5-20P 14.5

9.0 0.5 120 1 60 X 5-15P 14.5

9.0 0.5 120 1 60 X 5-15P 14.5

NO QTY EQUIPMENT CATEGORY

1 1 WASHER DRYER STACKED

1 CUSTOM COUNTER
1 OVEN, MICROWAVE

DISHTABLE, STRAIGHT
CART, DISH & TRAY

1 CART, DISH & TRAY 1 TABLE, WORK

1 BEVERAGE COUNTER

1 COLD FOOD STATION

SINK, MOP

1 BUFFET SHIELD
1 HOT FOOD—SOUP STATION
1 BUFFET SHIELD
18 SHELVING, PLASTIC, FLAT
6 SHELVING, PLASTIC, LOUVERED

1 SINK, HAND, WALL MOUNT

2 TABLE, WORK
1 WALK IN COOLER FREEZER

6 1 HOLDING CABINET, HEATED
7 1 OVEN, CONVECTION, GAS

1 TABLE, WORK 1 STEAMER, PRESSURELESS

REFRIGERATOR, AIR CURTAIN TYPE

1 DISHTABLE, 'L' SHAPE EAGLE GROUP/M
1 PRE-RINSE FAUCET, DECK MOUNT T & S BRASS

1 DISPLAY CASE, REFRIGERATED
2 MOBILE MILK CASE
2 CASHIER STATION

1 COLLECTOR, FOOD WASTE

WAREWASHER, RACK CONVEYOR

BUFFET/CAFETERIA, TRAY STAND

HOT FOOD-SOUP STATION

DROP-IN, HOT WELLS, UNINSULATED

BUFFET/CAFETERIA, TRANSITION PIECE DELFIELD

1 BUFFET/CAFETERIA, BUFFET SHIELD DELFIELD BUFFET/CAFETERIA, TRANSITION PIECE DELFIELD

MODEL NUMBER RESIDENTIAL WASHER

RESIDENTIAL DRYER

S914 SCRAP COLLECTOR

CCS-SDRWL

C-74-NU

CL54E-E-RL

DCBC-96R

DCRU-H4

DCRU-MC4

HWB-11QT W/MNT DCRU-CUSTOM

C-1826-14HD

EXISTING BY OWNER

EXISTING BY OWNER FAN BY OTHERS

EXISTING BY OWNER

EAGLE GROUP/METAL MASTERS | SDTC-CUSTOM-120-14/3

EAGLE GROUP/METAL MASTERS T3096STEM-BS

EAGLE GROUP/METAL MASTERS S2348PZM

EAGLE GROUP/METAL MASTERS L2348PSM EAGLE GROUP/METAL MASTERS CRC3

EAGLE GROUP/METAL MASTERS HSA-10-FA

EAGLE GROUP/METAL MASTERS T3072STEM

LE GROUP/METAL MASTERS T3072STEM

EAGLE GROUP/METAL MASTERS FN2016-1-18R14/3 HOBART US FOODSERVICE HL200-40STD

EAGLE GROUP/METAL MASTERS F1916

HOBART US FOODSERVICE

SINK, SCULLERY, 3 COMPARTMENTS EAGLE GROUP/METAL MASTERS FN2860-3-30-14/3

1 SINK, SCULLERY, 2 COMPARTMENTS EAGLE GROUP/METAL MASTERS FN2036-2-24-14/3

SCHEMATIC FLOOR PLAN **FOODSERVICES** 

DESCRIPTION:

**FS-001** 

FS-002

SCHEMATIC FLOOR PLAN FOODSERVICES CULINARY PROGRAM SCALE

DRAWN BY

CHECK BY

PROJ.ARCH./ENGR.

PROJ. MRG.

JOB NO.

12029.00

SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2013

ISSUE

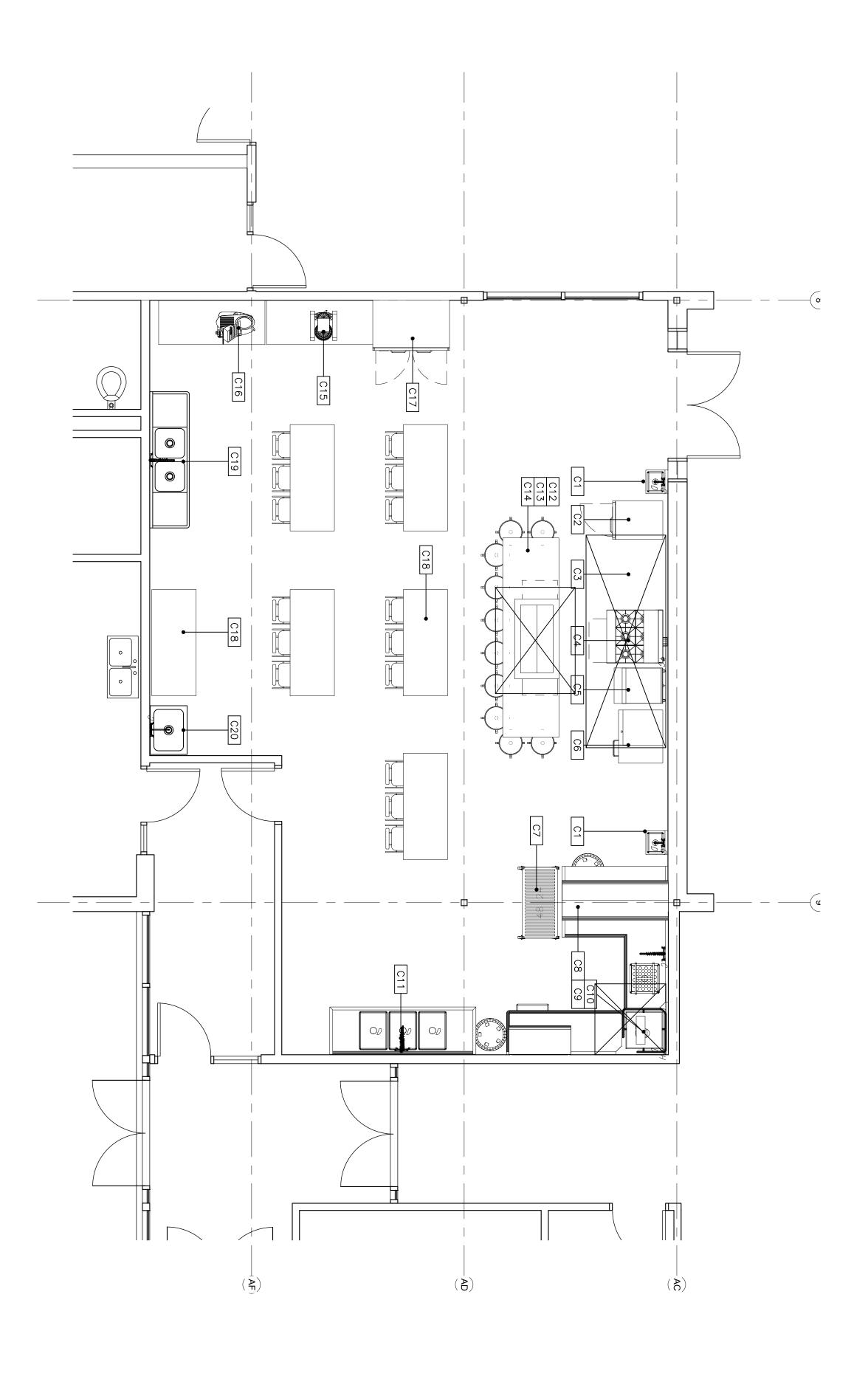
LOG

= CLOUDED

CHANGE

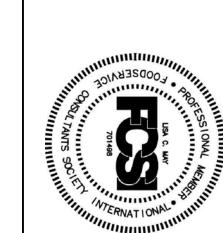
MARK:DATE:

SCHEMATIC DESIGN SUBMISSION - MARCH 27, 2013



C20 1	C19 1	C18 8	C17 1	C16 1	C15 1	C14 1	C13 1	C12 1	C11 1		C10 1	C9 1	C8 1	C7 1		C6 1	C5 1	C4 1	C3 1	C2 1	C1 2	NO QTY	
SINK MOP	SINK, PREP, TWO COMPARTMENTS	TABLE, WORK	REFRIGERATOR, REACH-IN	SLICER, FOOD	MIXER, COUNTER	COOKING ISLAND WITH INDUCTION AND REFRIGERATION	COOKING ISLAND HOOD	COOKING ISLAND HOOD	SINK, PREP, THREE COMPARTMENTS		WAREWASHER, DOOR TYPE, HIGH TEMP	DISHTABLE, STRAIGHT	DISHTABLE, 'L' SHAPE	SHELVING, PLASTIC, FLAT		STEAMER, CONVECTION, ELECTRIC	GRIDDLE, GAS	RANGE, RESTAURANT, GAS	OVEN, CONVECTION, GAS	CABINET, MOBILE, WARMING & HOLDING	SINK, HAND, WALL MOUNT	EQUIPMENT CATEGORY	
EAGLE GROUP/METAL MASTERS	EAGLE GROUP/METAL MASTERS	EAGLE GROUP/METAL MASTERS	DELFIELD	HOBART US FOODSERVICE	HOBART US FOODSERVICE		CAPTIVEAIR	CAPTIVEAIR	EAGLE GROUP/METAL MASTERS		HOBART US FOODSERVICE	EAGLE GROUP/METAL MASTERS	EAGLE GROUP/METAL MASTERS	INTERMETRO INDUSTRIES		VULCAN—HART	VULCAN—HART	VULCAN—HART	VULCAN—HART	CRES COR	EAGLE GROUP/METAL MASTERS	MANUFACTURER	
RS F2820-12	RS CUSTOM FAB	RS T3072STE	6051XL-S	2612-1	ES20-A2Y1	CUSTOM FAB	NDI WITH ANSUL	NDI WITH ANSUL	RS CUSTOM FAB		AM15T ELEC	RS CDTL-78-14/3	RS CUSTOM	MX2448F		C24EA3/28XSGL	24RRG	36C-6B-N	SG4C	121-PH-UA-11D	RS HSA-10-FE	MODEL NUMBER	
							72" X 54"	144" X 54"														EQUIPMENT	
			8.0	5.0	3.2		15.0	15.0	15.0	35.4 8.5	43.0 5.0					41.0 8.5			9.0	16.0 1.9	2.0	AMPS KW	Г С — Т
			0.33	0.5	200		0.5	0.5	0.5	208	2.0 208								0.5			HP	
			115 1	120 1	0-240 1		120 1	120 1	120 1	8-240   1	8-240 1					208 1			120 1	120 1	120 60	VOLTS PHASE	<b>Z</b>
			60 ×	60	60 ×		60 ×	60 X	60 X	60 X	60 ×					60 X			60 ×	60 >	1	CYCLE DIRECT	U
			X 5-15P	X 5-15P	K 6-15P														X 5-15P	X 5-20P	X 5-15P	PLUG NEMA	
										10.75	13.25					31			32.25	8.5	24	ELECTRICAL AFF (IN)	
																						ELECTRICAL ROUGH-IN RELEC REMARKS	
0.5 24	0.5   30												0.5 30		0.75 33	0.75 33					0.5 18	COLD WATER SIZE (IN)  COLD WATER AFF (IN)  COLD-WATER	
0.5	0.5									0.75	0.75		0.5								0.5	ROUGH-IN HOT WATER SIZE (IN)	
24	30									5 7	63.		30								5 18	HOT WATER GPH HOT WATER	
, -	)										.5											AFF (IN) HOT-WATER ROUGH-IN	
2																					.5	DIRECT DRAIN SIZE (IN)	
0.5																					24.5	DIRECT DRAIN AFF (IN) DIRECT-DRAIN ROUGH-IN	
	1.5										1.5		1.5			1.5						INDIR DRAIN SIZE (IN)	
	18										7.25		28			30						INDIR DRAIN AFF (IN) INDIRECT-DRAIN	
																	0.	0.	0.7			ROUGH-IN	
																	0.75 55	0.75 215	.75 60			SIZE (IN)	

Monument
Mountain Regional
High School
600 Stockbridge Road
Great Barrington MA 01230





STAMPS

SYMMES MAINI & McKEE ASSOCIATES
1000 Massachusetts Avenue
Cambridge, Massachusetts 02138
P:617.547.5400 F:617.648.4920

> MARGO JONES Architects

STAMPS

Monument **Mountain Regional High School** 600 Stockbridge Road Great Barrington MA 01230

\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_ 3-28-2013 SCHEMATIC DESIGN MARK: DATE: DESCRIPTION: ISSUE LOG = CLOUDED CHANGE SCALE DRAWN BY PROJ.ARCH./ENGR. JOB NO. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

**LEGEND** 

E-1 EXHAUST REGISTER OR GRILLE

T-1 TRANSFER REGISTER, GRILLE OR DIFFUSER

2-WAY BLOW PATTERN

3-WAY BLOW PATTERN

4-WAY BLOW PATTERN

WATER COLUMN

WATER PRESSURE DROP

WIRE MESH SCREEN

X-X (200) QTY

(200) — ALTERNATE CFM LOCATION

HATCH INDICATES BLOCKED PORTION

OF DIFFUSER FOR DIRECTION FLOW

WATER GAGE

WATT; WIDE

WEIGHT

WET BULB

WITH

WITHOUT

WMS

W/O

ASSOCIATION

NATURAL GAS

NOT IN CONTRACT

NOISE REDUCTION

NORMALLY OPEN; NUMBER

NEGATIVE

NT WT NET WEIGHT

NTS NOT TO SCALE

NA NOT APPLICABLE

NFPA NATIONAL FIRE PROTECTION ASSOCIATION

NOISE CRITERIA; NORMALLY CLOSED

EVAPORATIVE COOLING UNIT

EXAMPLE

**EXHAUST** 

EXISTING

EXST

EXHAUST AIR; EACH

EXISTING TO REMAIN

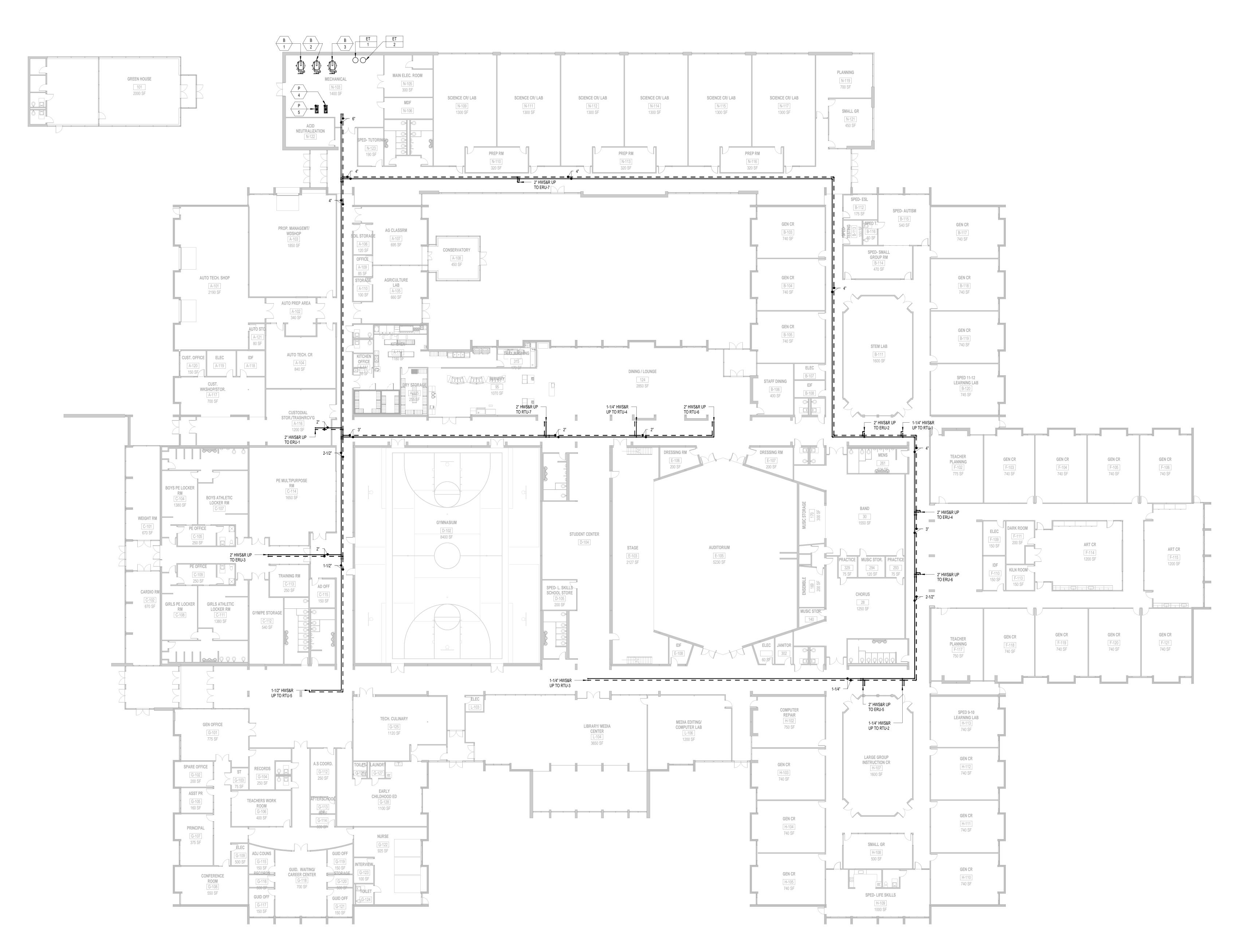
EXTERIOR; EXTERNAL

EXPANSION; EXPAND; EXPOSED

EXTERNAL STATIC PRESSURE

EXHAUST FAN

1000 Massachusetts Avenue Cambridge, Massachusetts 02138



P:617.547.5400 F:617.648.4920

MARGO JONES

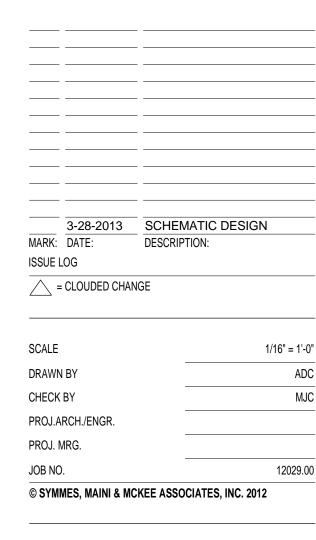
Architects

SYMMES MAINI & MCKEE ASSOCIATES

STAMPS

Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230



FIRST FLOOR PLAN



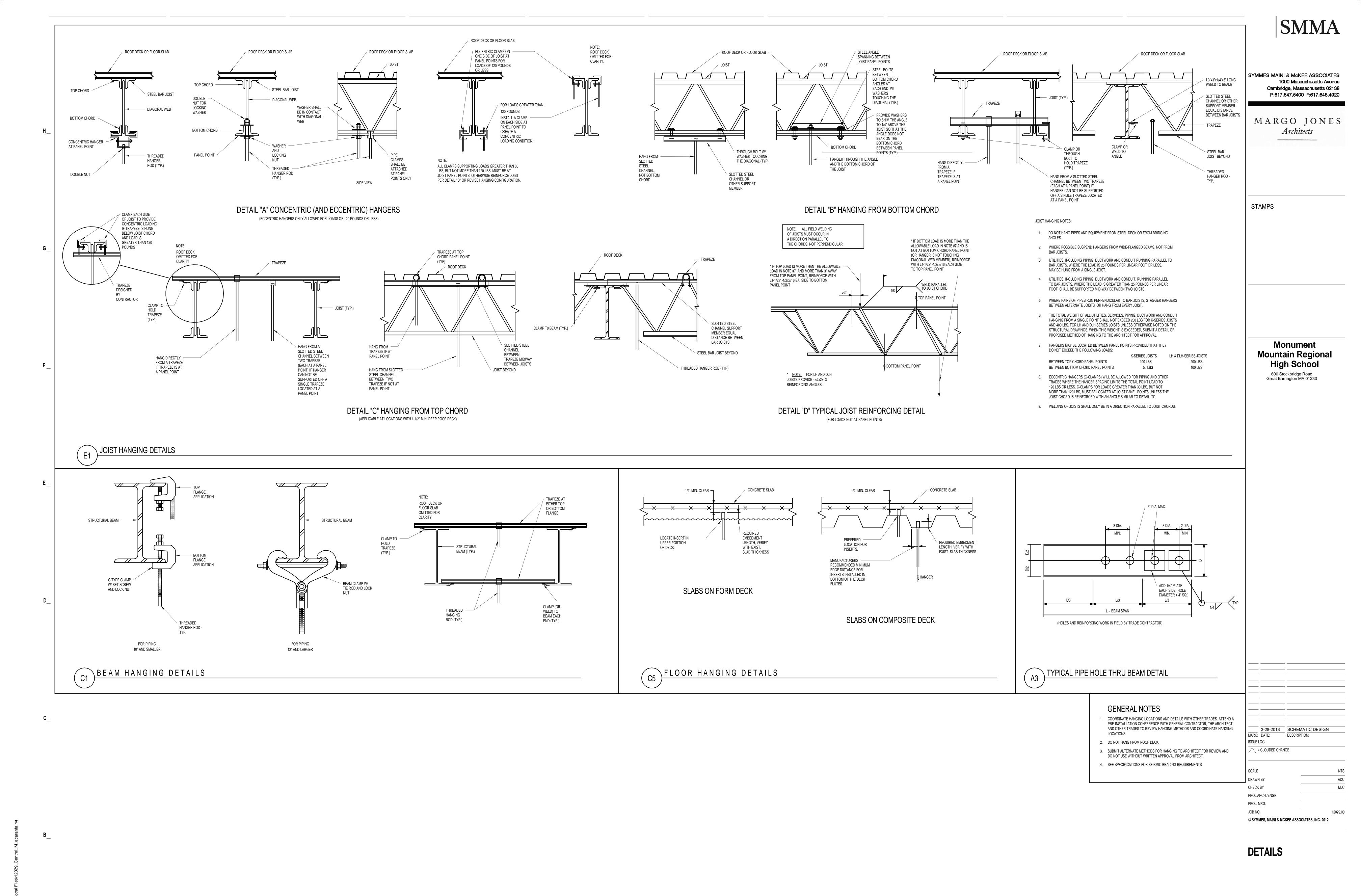
SMMA

SYMMES MAINI & McKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920 MARGO JONES

Architects STAMPS Monument Mountain Regional High School 600 Stockbridge Road Great Barrington MA 01230 RTU 4 RTU 6 ERU 1 ERU 2 RTU 1 RTU 2 © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012 **ROOF PLAN** 

) M-

M-103



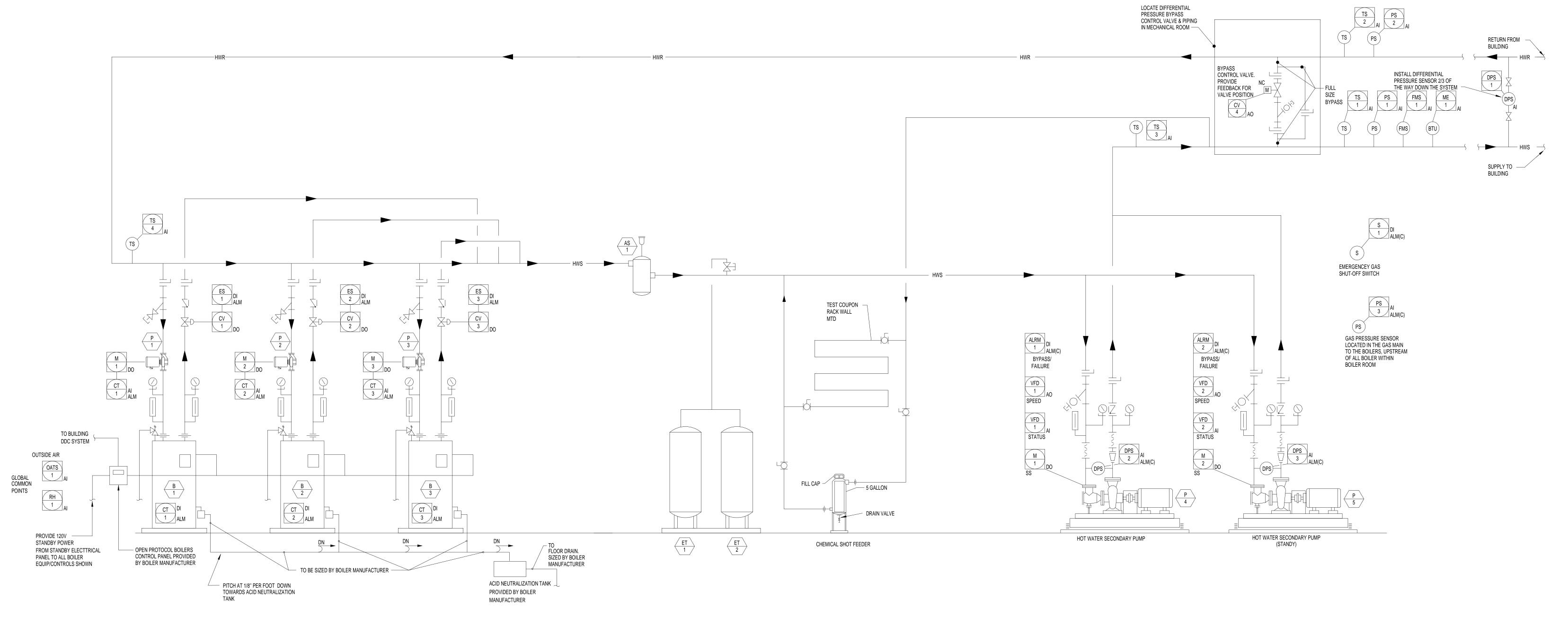
MARGO JONES

Architects

STAMPS

Monument
Mountain Regional
High School

600 Stockbridge Road
Great Barrington MA 01230



**HOT WATER FLOW DIAGRAM** 

HOT WATER FLOW DIAGRAM

**M-701** 

ONE LINE DIAGRAM (SCHEMATIC SYMBOLS POWER) DESCRIPTION DESCRIPTION <u>SYMBOL</u> <u>SYMBOL</u> SPD CIRCUIT BREAKER SURGE PROTECTIVE DEVICE LOW VOLTAGE DRAWOUT TYPE AMMETER CIRCUIT BREAKER POTENTIAL TRANSFORMER ⊸ **∕**⊸□ DISCONNECTING FUSE ELECTRICAL KIRK KEY INTERLOCK STANDARD WIRE GROUND **FUTURE WIRE** METER ELECTRICAL INTERLOCK WIRE \_\_\_\_\_ FUTURE ELECTRICAL INTERLOCK WIRE MOTOR —·—·— FEEDER BUS TRANSFORMER, DRY TYPE, UNLESS OTHERWISE INDICATED **FUTURE FEEDER BUS** AUTOMATIC TRANSFER SWITCH PANELBOARDS AND TERMINAL CABINETS <u>DESCRIPTION</u> <u>SYMBOL</u> SURFACE MOUNTED 120/208 VOLT PANELBOARD 6'-6" A.F.F. TO TOP. (FLUSH MOUNTED). SURFACE MOUNTED 277/480 VOLT PANELBOARD 6'-6" A.F.F. TO TOP. (FLUSH MOUNTED).

		Control moonies 277 100 vol. 1744 Espains 0 0 74 10 101. (1 2001 moonies).
		SURFACE MOUNTED CONTROL PANEL 6'-6" A.F.F. TO TOP. (FLUSH MOUNTED).
		SURFACE MOUNTED 120/208 MAIN DISTRIBUTION BOARD
		SURFACE MOUNTED 277/480 MAIN DISTRIBUTION BOARD
<b>I</b> G	<u>(M)</u>	METER
NG		PLYWOOD BACKBOARD
	Т	DRY TYPE TRANSFORMER, RATING AS INDICATED ON SCHEMATIC RISER DIAGRAM AND TRANSFORMER

SCHEDULE.

IOTORS, EQUIPMENT, AND CONTROLS					
<u>SYMBOL</u>	DESCRIPTION				
<b>2</b>	MOTOR. NUMERAL INDICATES HORSEPOWER.				
ㅁ	NON-FUSED DISCONNECT SWITCH. 3 POLE, 30 AMP, UNLESS OTHERWISE NOTED.				
30AS 20AF <b>□</b>	FUSED 3 POLE DISCONNECT SWITCH. "30A" DENOTES SWITCH SIZE, "20A" DENOTES FUSE SIZE.				
$\square$ $\left(\frac{30A}{20A}\right)$	COMBINATION STARTER/NON-FUSED DISCONNECT SWITCH. 3 POLE, 30 AMP SWITCH, WITH NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED. (WITH FUSED DISCONNECT SWITCH).				
	MAGNETIC MOTOR STARTER.				
0 0 0	PUSHBUTTON CONTROL STATION, FUNCTION AS INDICATED ON PLAN.				
TC	TIME CLOCK. REFER TO SPECIFICATIONS.				
C	CONTACTOR. REFER TO SPECIFICATIONS.				

ت	
R	RELAY
H	EMERGENCY POWER OFF MUSHROOM TYPE PUSHBUTTON PROVIDED WITH FULL ALUMINUM GUARD, MOUNTED AT 54" A.F.F. UNLESS OTHERWISE NOTED.
•	PUSHBUTTON STATION.

INDICATES CIRCUIT NUMBER. "TR" INDICATES TAMPER RESISTANT.

DUPLEX RECEPTACLE - GROUNDING TYPE - MOUNTED 18" A.F.F. UNLESS OTHERWISE INDICATED. NUMERAL

#### RECEPTACLE SYMBOLS

<u>DESCRIPTION</u>

<u>SYMBOL</u>

₽	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTING TYPE - MOUNTED 18" A.F.F. UNLESS OTHERWISE INDICATE "TR" INDICATES TAMPER RESISTANT.
<b>=</b>	DUPLEX RECEPTACLE - GROUNDING TYPE - MOUNTED AT 42" A.F.F. OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT. "TR" INDICATES TAMPER RESISTANT.
=	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTING TYPE - MOUNTED 42" A.F.F. OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT. "TR" INDICATES TAMPER RESISTANT.
<del>=</del>	DUPLEX RECEPTACLE - GROUNDING TYPE WITH SURGE SUPPRESSION PROTECTION MOUNTED AT 18" A.F.F. UNLESS OTHERWISE INDICATED.
<b>⊖</b> =	DUPLEX RECEPTACLE - ISOLATED GROUND TYPE - MOUNTED AT 18" A.F.F. UNLESS OTHERWISE INDICATED.
0	SINGLE RECEPTACLE - GROUNDING TYPE - MOUNTED AT 18" A.F.F. UNLESS OTHERWISE INDICATED.
<del></del>	DOUBLE DUPLEX RECEPTACLE - GROUNDING TYPE - MOUNTED AT 18" A.F.F. UNLESS OTHERWISE INDICATED. "TR" INDICATES TAMPER RESISTANT.
c <del>♣</del>	DOUBLE DUPLEX RECEPTACLE - GROUNDING TYPE - MOUNTED AT 42" A.F.F. OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT. "TR" INDICATES TAMPER RESISTANT.
Φ	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
<del> </del>	FLOOR OUTLET BOX WITH DOUBLE DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
Φ	FLOOR OUTLET BOX WITH SINGLE RECEPTACLE; REFER TO SPECIFICATIONS.

### CEILING MOUNTED BOX WITH DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.

A 🍑	SPECIAL PURPOSE RECEPTACLE - "A" INDICATES TYPE AS SHOWN ON DRAWINGS OR IN SPECIFICATIONS.
A	SPECIAL PURPOSE RECEPTACLE - FLOOR OUTLET BOX - "A" INDICATES TYPE AS SHOWN ON DRAWINGS O SPECIFICATIONS.
	POWER POLE; REFER TO SPECIFICATIONS AND DRAWINGS FOR RECEPTACLE CONFIGURATION.
	WIREMOLD WITH DUPLEX GROUNDING RECEPTACLES. SEE SPECIFICATIONS.
0	JUNCTION BOX.

#### CONDUIT AND WIRE SYMBOLS

CONDON	AND WINE STUDOES
SYMBOL	DESCRIPTION
	RACEWAY CONCEALED IN CEILING OR WALLS, OR EXPOSED IN UNFINISHED AREAS.
	RACEWAY CONCEALED IN FLOOR SLAB.
<b>^</b>	FLEXIBLE RACEWAY; SIZE AS REQUIRED.
	CONDUIT UP.
	CONDUIT DOWN.
$\xrightarrow{XP}$	EXPLOSION PROOF SEAL ON CONDUIT RUN.

#### **PROJECT NOTES**

- 1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS, AND COORDINATION WILL ALL TRADES SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
- 2. WORK AT A MINIMUM SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODE AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
- 3. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.
- 4. VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.
- 5. INCLUDE IN BID WHATEVER IS REQUIRED TO MEET SCHEDULE INCLUDING OVERTIME, EXPRESS SHIPPING, EXPEDITING EQUIPMENT, ETC. PLAN PROJECT AND SUBMIT SHOP DRAWING AND ORDER EQUIPMENT IN A TIMELY MANNER, EQUIPMENT SHALL BE BASED ON THE SPECIFIED EQUIPMENT.
- 6. ANY EQUIPMENT TO BE SUBSTITUTED SHALL BE IDENTIFIED AT TIME OF BID. REFER TO SPECIFICATIONS.
- TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.

ALL TEMPORARY FACILITIES PROVIDED AT PROJECT COMPLETION.

8. PROVIDE TRAINING TO OWNER ON ALL EQUIPMENT AND SYSTEMS INSTALLED.

9. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED AS REQUIRED BY OSHA, CODES AND LOCAL AUTHORITIES. REMOVE

10. UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL CONDUCTORS, POWER DISTRIBUTION EQUIPMENT BUSSING AND TRANSFORMER WINDINGS PROVIDED SHALL BE FABRICATED OF 98% CONDUCTIVE COPPER MATERIAL.

### **INSTALLATION COORDINATION NOTES**

- PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E POWER, CONTROL,
- 2. ELECTRICAL EQUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN OWNER FURNISHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND FURNITURE INSTALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.
- 3. IF EXACT LOCATION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- 4. UNLESS OTHERWISE DIRECTED, PROVIDE ALL NEW POWER DISTRIBUTION EQUIPMENT WITH AIC RATINGS THAT MATCH OR EXCEED THE AIC RATING OF THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICE SERVING THE PANEL WHEN SERVED DIRECTLY (EG. NO TRANSFORMER) BY A 277/480 VOLT SOURCE OR PROVIDE AIC RATING THAT EXCEEDS BY 10% THE MAXIMUM LET THROUGH FAULT CURRENT (UNDER INFINITE PRIMARY BUSS) OF THE NEXT ACTIVE UPSTREAM TRANSFORMER (EXISTING OR NEW) SERVING THE RESPECTIVE NEW PANEL.
- 5. ALL NEW PANELS SHALL BE FULLY RATED FOR THE DESIGNATED AIC VALUE; PANELS UTILIZING SERIES RATINGS WILL NOT BE ACCEPTABLE. NEW CIRCUIT BREAKERS PROVIDED IN EXISTING PANELS SHALL BE PROVIDED WITH AIC RATINGS THAT MATCH

OR EXCEED THE HIGHEST RATED OVER-CURRENT PROTECTIVE DEVICE WITHIN THE RESPECTIVE EXISTING PANEL.

- 6. SUBMIT SHORT CIRCUIT STUDY WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. IN THE STUDY DEMONSTRATE THAT THE AIC RATING SELECTIONS ARE PROPERLY INTEGRATED AND COORDINATED WITH THE EXISTING AND NEW POWER DISTRIBUTION EQUIPMENT. CONFIRM THAT THE AIC RATING SELECTIONS HAVE INCORPORATED THE AVAILABLE FAULT DUTY VALUES OBTAINED FROM THE UTILITY COMPANY FOR THE PROJECT'S ELECTRICAL SERVICE POINT OF COMMON COUPLING.
- 7. SUBMIT OVER-CURRENT PROTECTIVE DEVICE COORDINATION STUDY, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. INCLUDE THE NEXT ACTIVE EXISTING
- UPSTREAM OVER-CURRENT PROTECTIVE DEVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING FACILITY. 8. SUBMIT ARC FLASH REPORT, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH POWER DISTRIBUTION EQUIPMENT

#### **WIRING NOTES**

SUBMITTALS FOR REVIEW AND APPROVAL.

- 1. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- 2. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLETS INDICATED WITH CIRCUIT NUMBERS. PROVIDE 3/4"C., 3#12 UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZES INDICATED ON HOME RUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT, REFER TO VOLTAGE DROP CHART ON DRAWING E-601. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE
- 3. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (PHASE AND NEUTRALS) AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED, PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE CIRCUIT, EXCEPT FOR LIGHTING CIRCUITS, UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.
- 4. MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDICATING PANEL AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE CONDUITS ENTER PANELS, WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WITH SYSTEM (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.

## SYSTEM POWER WIRING NOTES

1. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED COMPUTER POWER OUTLETS FEEDING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO ELIMINATE VIDEO INTERFERENCE BETWEEN VIDEO SOURCE AND EQUIPMENT. COORDINATE ALL POWER WIRING FOR SYSTEM EQUIPMENT WITH THE SYSTEM INSTALLER

### RECEPTACLE COLOR CODE REQUIREMENTS

- UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES COLOR CODE AS FOLLOWS.
- ON UPS-BLACK-HOSPITAL GRADE WERE AVAILABLE
- ON GENERATOR POWER RED
- ISOLATED GROUND ORANGE
- NORMAL POWER IVORY OR AS SELECTED BY ARCHITECT

### MOUNTING NOTES

- 1. INSTALL NEARBY DEVICES ON ONE COMMON VERTICAL CENTERLINE.
- 2. INSTALL ADJACENT TO DEVICES LINED UP WITH A COMMON BOTTOM LINE.
- 3. INSTALL DEVICES AT INDICATED HEIGHT AS APPLICABLE UNLESS OTHERWISE INDICATED. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTER LINE OF DEVICE EXCEPT AS INDICATED BY NOTE 7.
- 4. ON MASONRY WALLS LINE UP THE BOTTOM OF THE DEVICE WITH A MASONRY JOINT AS CLOSE TO INDICATED HEIGHT AS PRACTICAL.
- 5. INSTALL DEVICES IN SAME AREA AT THE SAME HEIGHT.
- 6. MOUNT PANELS SIX FEET TO THE TOP OF THE PANEL OR ANNUNCIATOR/FA GRAPHIC.
- 7. MOUNT AT 8FT TO BOTTOM FOR SIGNAGE, EMERGENCY LIGHTING, CLOCKS, SECURITY SENSORS, WALL MOUNTED OCCUPANCY SENSORS MODIFIED AS FOLLOWS, 4" FROM TOP OF DEVICE TO CEILING, 4" ABOVE DOOR FRAMES.
- 8. LOCATE CONTROL DEVICES AT LEAST 18" FROM AN INSIDE CORNER.
- 9. SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.
- 10. ELECTRICAL WORK SHALL BE INSTALLED CONCEALED IN FINISHED AREAS RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- 11. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN FIRE RATED WALLS.

#### PANEL NAME ABBREVATIONS

ABBREVIA	<u>ATION</u>	<u>DEFINITION</u>				
•	DP DP-UPS LP LCP MDP RP RCP URP	•	DISTRIBUTION PANEL UPS DISTRIBUTION PANEL LIGHTING PANEL LIGHTING CONTROL RELAY PANEL MECHANICAL DISTRIBUTION PANEL RECEPTACLE PANEL RECEPTACLE CONTROL PANEL UPS RECEPTACLE PANEL			

NOTE: THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS, NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARY USED ON THIS PROJECT.

SYMMES MAINI & McKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920

MARGO JONES

STAMPS

**Mountain Regional High School** 600 STOCKBRIDGE RD, GREAT BARRINGTON, MA 01230

\_\_\_\_\_ 1 03/28/2013 SCHEMATIC DESIGN MARK: DATE: DESCRIPTION: ISSUE LOG = CLOUDED CHANGE SCALE 12" = 1'-0" DRAWN BY CHECK BY PROJ.ARCH./ENGR. PROJ. MRG. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

SYMBOL LEGEND AND **NOTES** 

E-001

 
 57
 58
 59
 52 554 55 56 SP-2 ERM SP-3 ERM ERM L1-5 Q REFER TO DETAIL C1 ON DWG. ES101
FOR ADDITIONAL DEMO INFORMATION IN PROJ.ARCH./ENGR. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012 **DEMOLITION KEY NOTES:** 1. UNLESS NOTED OTHERWISE, WITHIN APPROPRIATE CONSTRUCTION PHASE E.C. SHALL REMOVE THE ENTIRE EXISTING POWER DISTRIBUTION SYSTEM, LIGHTING SYSTEM, FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, VIDEO, INTERCOM, LOCAL SOUND SYSTEMS, SECURITY, MASTER CLOCK AND BELL SYSTEMS INCLUDING ALL EQUIPMENT AND DEVICES WITH ASSOCIATED DEVICE BOXES AND BRANCH WIRING. DISCONNECT AND REMOVE POWER AND CONTROL WIRING TO EXISTING MECHANICAL (HVAC AND PLUMBING) EQUIPMENT LOCATED THROUGHOUT THE BUILDING AND ON THE ROOF, INCLUDING DISCONNECTS SWITCHES, MOTOR STARTERS, HANGERS, SUPPORTS, ETC., FOR DEMOLITION SCHEDULE REFER TO MECHANICAL DEMOLITION DRAWINGS. REMOVE INTERIOR AND EXTERIOR BUILDING-MOUNTED LIGHTING SYSTEMS IN ITS ENTIRETY, INCLUDING BRACKETS, SUPPORTS, STEMS, HANGERS AND OTHER ACCESSORIES. REMOVE ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING. CUT CONDUIT FLUSH WITH WALLS AND FLOORS AND REMOVE SUPPORTS FOR ABANDONED CONDUIT. ALL ELECTRICAL DEVICES SHALL BE REMOVED WITH ASSOCIATED OUTLET BOXES, EXCEPT FOR LOCATIONS WHERE THEY ARE INSTALLED IN BLOCK WALLS. IN BLOCK WALLS OUTLET BOXES 4-GANG AND SMALLER CAN REMAIN IN PLACE IF E.C. PROVIDES A STAINLESS STEEL COVER PLATE. ALL BOXES LARGER THAN 4-GANG SHALL BE REMOVED BY E.C., REPAIRING/PATCHING - G.C. E.C. IS RESPONSIBLE TO ASSURE THAT WALLS, CEILINGS AND FLOOR SCHEDULED FOR DEMOLITION HAVE NO ENERGIZED DEVICES OR WIRING PRIOR TO DEMOLITION WORK. E.C. IS RESPONSIBLE TO ASSURE THAT ACTIVE POWER AND CONTROL WIRINGS TRAVELLING THROUGH RENOVATION AREAS ARE MAINTAINED AND PROTECTED PROPERLY. IF REQUIRED TO ACCOMMODATE THE CONSTRUCTION PHASING AND SCHEDULE E.C. SHALL PROVIDE TEMPORARY RE-FEEDING OF EQUIPMENT, THE PROPOSED RE-FEEDING CONCEPT SHALL BE

SYMMES MAINI & MCKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920

> MARGO JONES **Architects**

STAMPS

Monument Mountain Regional High School 600 STOCKBRIDGE RD, GREAT BARRINGTON, MA 01230

ISSUE LOG = CLOUDED CHANGE

**DEMOLITION PLAN** 

REVIEWED AND APPROVED BY PROJECT DESIGN ENGINEER. EXISTING LIGHTNING PROTECTION SYSTEM WILL

BE REMOVED BY G.C.



STAMPS

Monument
Mountain Regional
High School

600 STOCKBRIDGE RD,
GREAT BARRINGTON, MA 01230

ELECTRICAL SCOPE PLAN

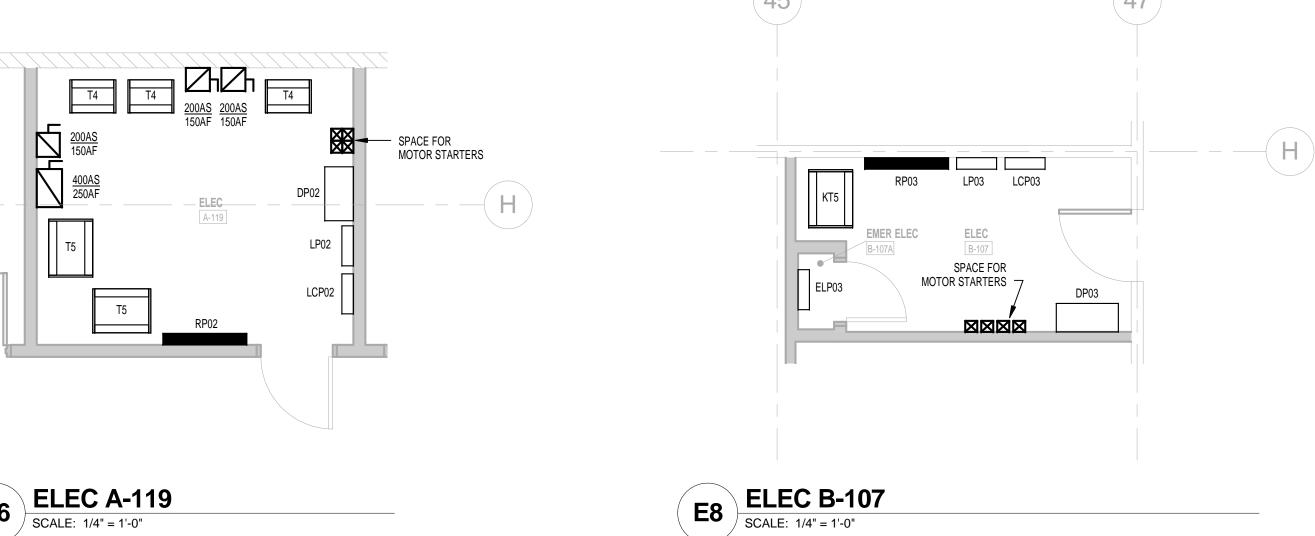
**EP101** 



> MARGO JONES Architects

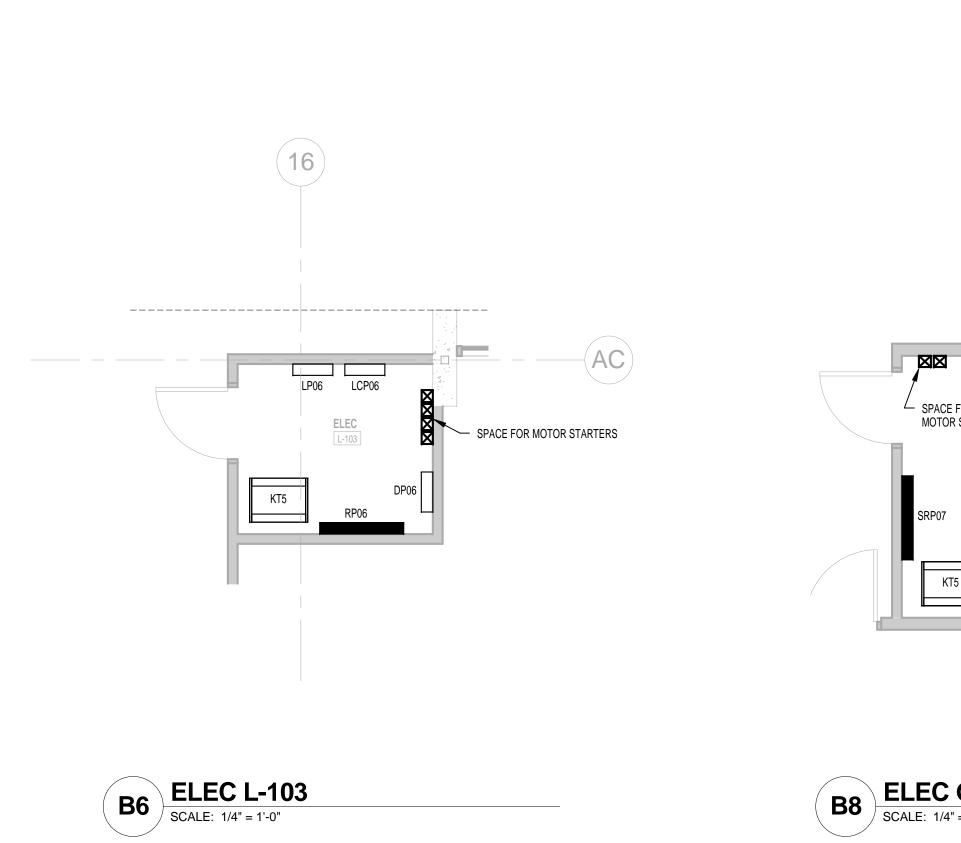
STAMPS

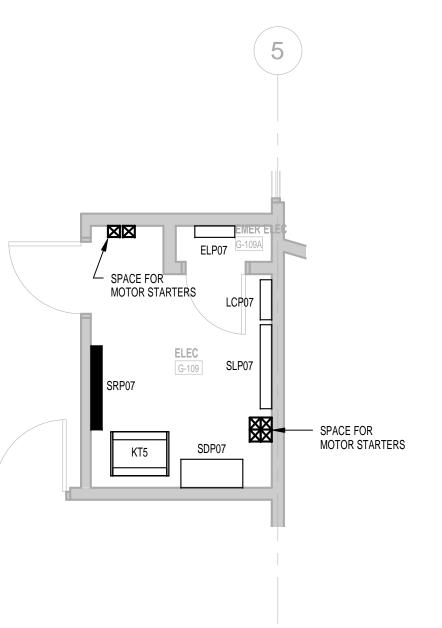
Monument Mountain Regional High School 600 STOCKBRIDGE RD, GREAT BARRINGTON, MA 01230



ELEC A-119

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

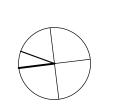


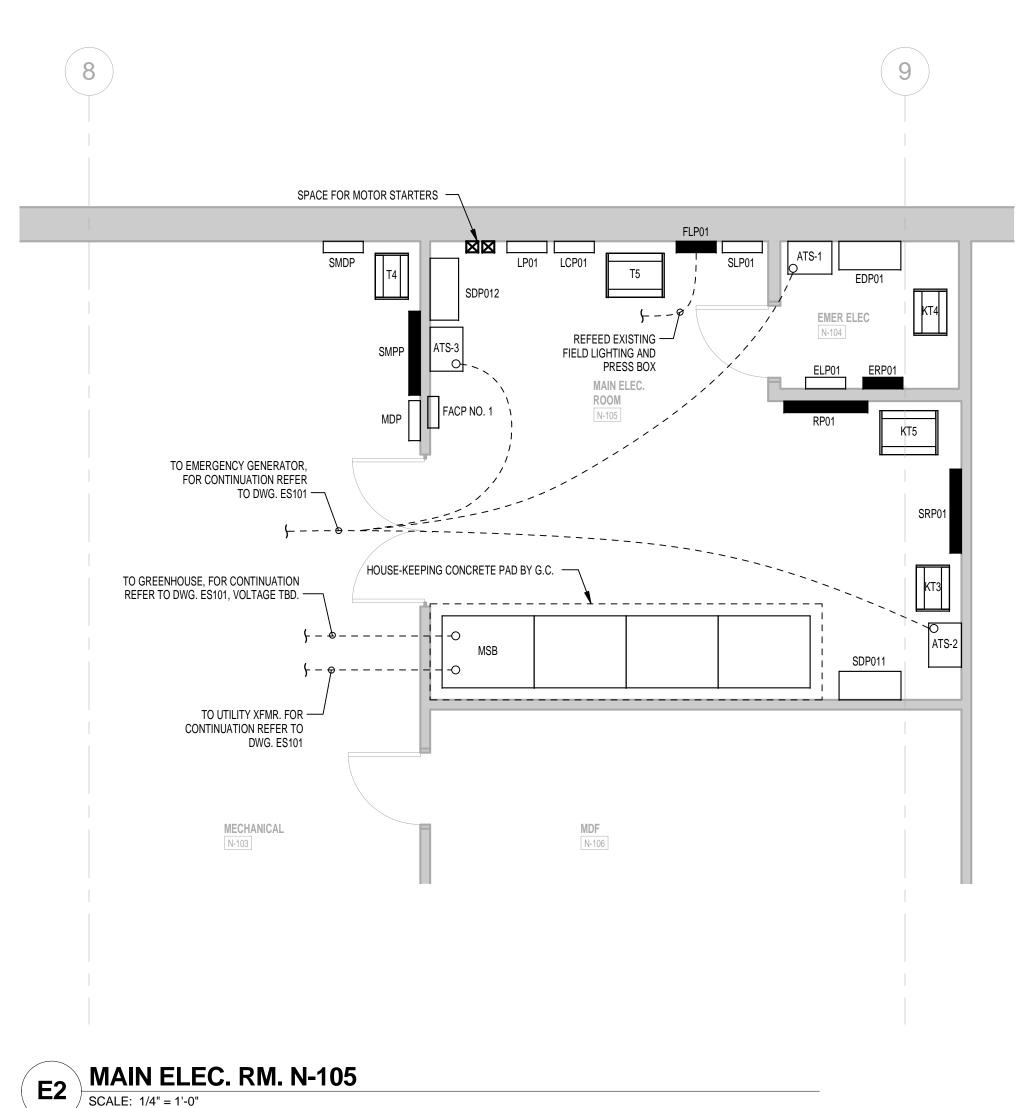


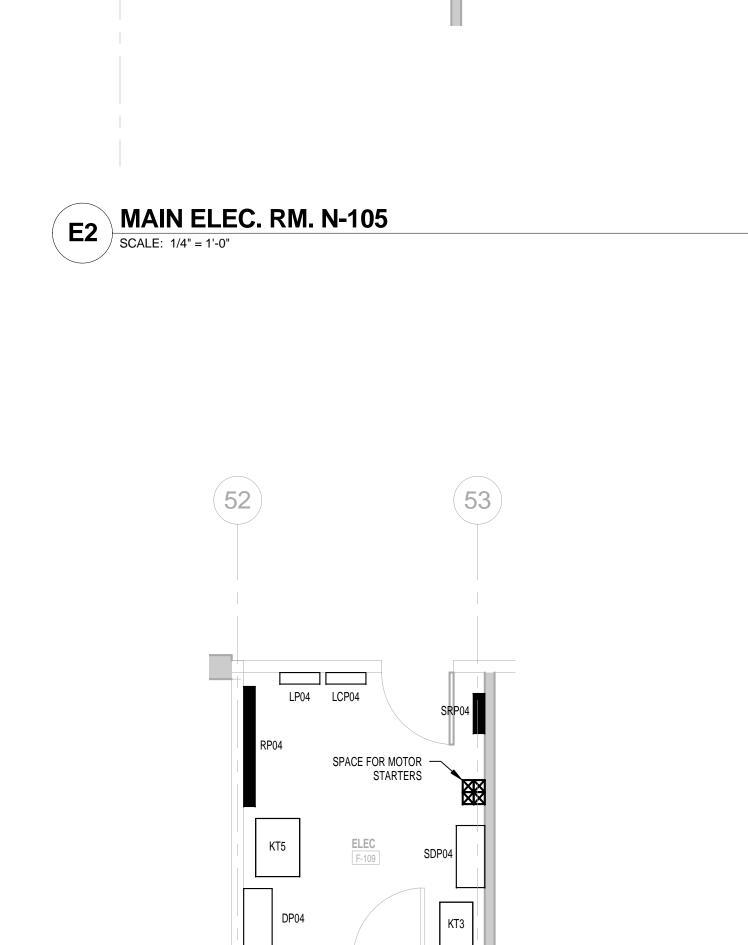
B8 ELEC G-109
SCALE: 1/4" = 1'-0"

1 03/28/2013 SCHEMATIC DESIGN
MARK: DATE: DESCRIPTION:
ISSUE LOG = CLOUDED CHANGE SCALE DRAWN BY CHECK BY PROJ.ARCH./ENGR. PROJ. MRG. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

PARTIAL ELECTRICAL **SCOPE PLANS** 





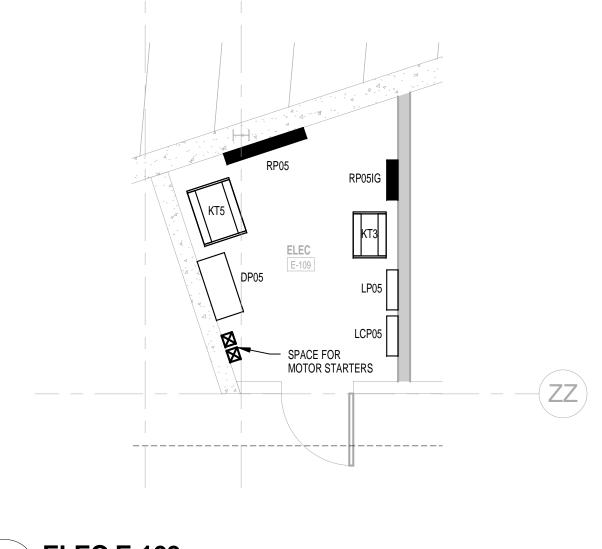


ELP04 F-109A

B2 ELEC F-109

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

ERP04





43



SYMMES MAINI & McKEE ASSOCIATES 1000 Massachusetts Avenue Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920 \_\_\_\_\_\_ MARGO JONES

Architects \_\_\_\_\_\_\_ STAMPS L-----Monument Mountain Regional High School 600 STOCKBRIDGE RD, GREAT BARRINGTON, MA 01230

PART G 🕅

\_\_\_\_\_\_

\_\_\_\_\_\_

EXISTING 160kW, 120/208V, 3Φ, 4W

EMERGENCY GENERATOR

EMERGENCY CLOSET G-109A

ELP07 480/277V

100A MLO

ELECTRICAL ROOM G-109

250A MCB

**DEMOLITION KEY NOTES:** 

D1. E.C. SHALL DE-ENERGIZE EXISTING SWITCHBOARD, EMERGENCY

EXISTING ELECTRICAL PANELS SCHEDULED FOR DEMOLITION IN

PHASES AND WALLS/FLOORS/CEILING REPAIRS - BY G.C.

GENERATOR SET AND ALL EXISTING ELECTRICAL PANELS SERVING BUILDING

APPROPRIATE CONSTRUCTION PHASES PRIOR TO BEGINNING OF DEMOLITION

WORK IN THESE AREAS. REMOVAL OF EXISTING SWITCHBOARD, EMERGENCY

GENERATOR SET AND ELECTRICAL PANELS IN APPROPRIATE CONSTRUCTION

AREAS SCHEDULED FOR RENOVATIONS IN APPROPRIATE CONSTRUCTION

PHASES. E.C. SHALL DISCONNECT AND REMOVE POWER FEEDERS TO

225A MLO

150A/3P

480/277V

400A MLO

**KEY NOTES:** 

CLUSTER OUTSIDE OF THE BUILDING.

5. PROVIDE 200% RATED NEUTRAL BUS. 6. GENERATOR CONTROL AND SIGNAL WIRING.

10. 3#3, 1#3/0 NEUTRAL & 2#8G. - 1-1/2"C.

CABLE SHALL BE USED.

3. BUILT-IN SURGE PROTECTIVE DEVICE (SPD).

1. PROVIDE FULLY RATED VERTICAL AND HORIZONTAL BUS SECTIONS

2. 1"C. - 1#3/0 SERVICE GROUNDING CONDUCTOR FROM SWITCHBOARD

4. UTILITY METER SHALL BE INSTALLED PER NGRID STANDARDS.

7. DIGITAL METERING UNIT TO BE TIED INTO BUILDING MANAGEMENT

8. FOR TRANSFORMER PRIMARY AND SECONDARY FEEDER SIZES AND

GROUNDING REFER TO RESPECTIVE SCHEDULE ON DRAWING EP604. 9. EMERGENCY POWER FEEDERS TO ALL EMERGENCY LIFE-SAFETY PANELS

AND EQUIPMENT SHALL BE INSTALLED UNDERGROUND OR ENCLOSED IN 2-HOUR RATED ENCLOSURE, OTHERWISE UL LISTED 2-HOUR RATED MI

GROUND BUS TO BUILDING STEEL, WATER SERVICE, AND GROUNDING

EXISTING UTILITY

TRANSFORMER VAULT

1 UU 1 

 PAD-MOUNTED TRANSFORMER. 3Φ, 3W PRIMARY, 480/277V, 3Φ, 4W SECONDARY, FURNISHED AND INSTALLED BY NGRID. CONCRETE PAD BY G.C. PER NGRID STANDARDS, GROUNDING BY E.C. PER

PAD-MOUNTED, DIESEL-FIRED

EMERGENCY GENERATOR 400kW/500kVA, 480/277V, 3Φ, 4W

(6)SETS - (4#500KCMIL, 4"C.) CONCRETE ENCASED

NGRID STANDARDS.

 $^{L}$  (2) 4"C. WITH PULL STRINGS -BY E.C. CONCRETE ENCASEMENT BY G.C.

PRIMARY CABLE BY NGRID.

— DISCONNECT AND REMOVE UPON

COMPLETION OF PHASE 2

- EXISTING UTILITY POLE AND POWER RISER TO REMAIN.

 PROVIDE NEW MANHOLE (SPLICE — BOX) PER NGRID STANDARDS

— (2) 4"G. WITH PULL STRINGS —

BY E.C., CONCRETE

ENCASEMENT BY G.C., PRIMARY CABLE BY NGRID.

PHASE 1: INTERCEPT EXISTING UNDERGROUND PRIMARY SERVICE WIRING INSTALLED IN CONCRETE-

ENCASED (2)4" CONDUITS AND RE-ROUTE AS SHOWN

ON SITE PLAN. EXISTING PRIMARY CABLE SHALL BE

TERMINATED IN APPROPRIATE LOCATION AND RE-

ROUTED TO NEW MANHOLES (SPLICE BOXES) MH-1 AND

MH-2 BY NGRID.

EXISTING MAIN ELECTRIC ROOM

LOADS (ERM)

TECH CULINARY G-125

120/208V 3Ф, 4W

150A MCB

WITH SHUNT TRIP

3Φ, 4W SWITCHBOARD

- EXISTING UTILITY TRANSFORMER (120/208V, 3Φ, 4W SECONDARY) AND PRIMARY SERVICE WIRING SHALL BE DISCONNECTED AND

REMOVED BY NGRID. E.C. SHALL REMOVE TRANSFORMER SECONDARY FEEDER.

> 1 03/28/2013 SCHEMATIC DESIGN MARK: DATE: ISSUE LOG = CLOUDED CHANGE

SCALE 12" = 1'-0" PROJ.ARCH./ENGR. JOB NO. © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

POWER ONE-LINE **DIAGRAM PART 1** 

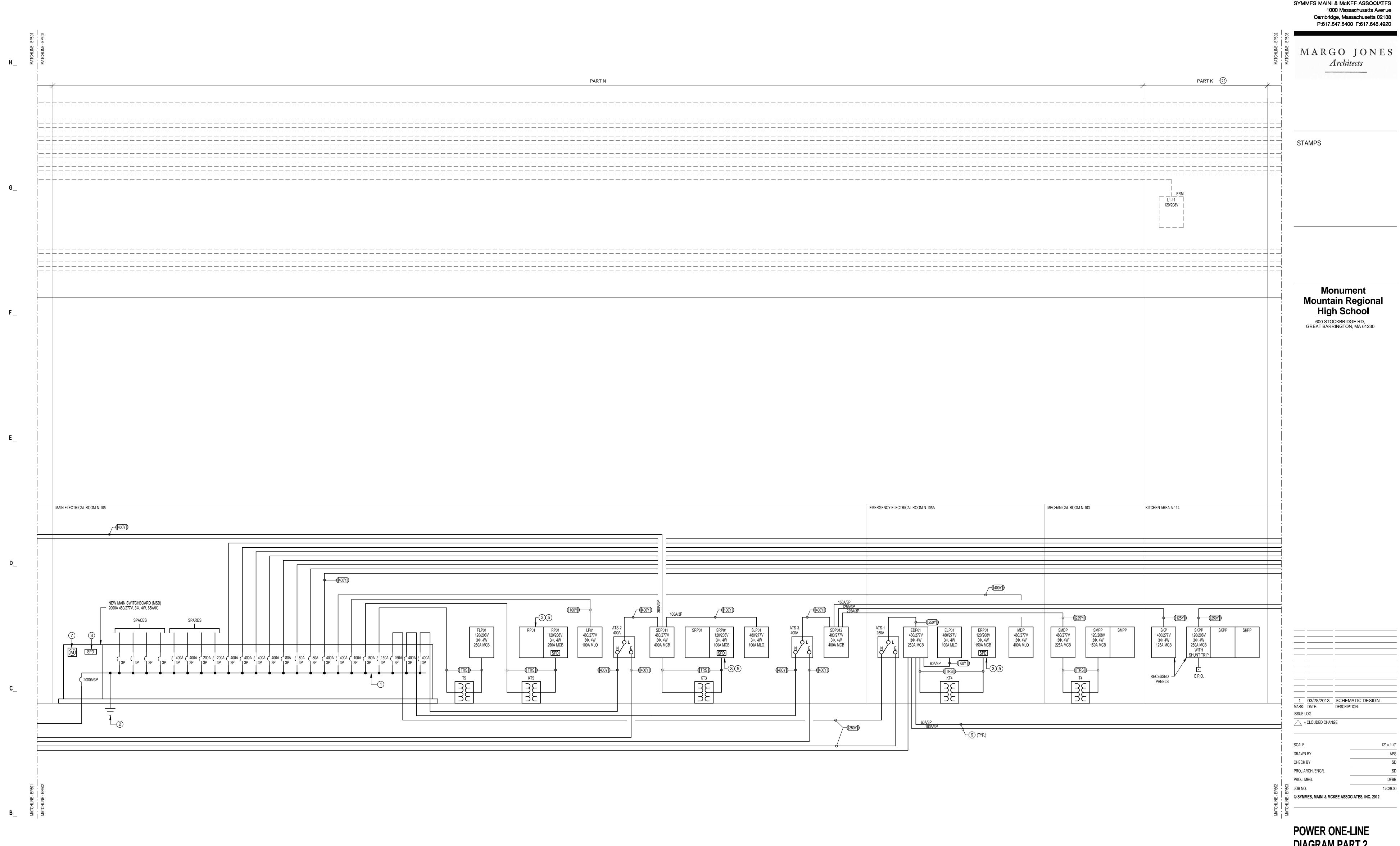


DIAGRAM PART 2

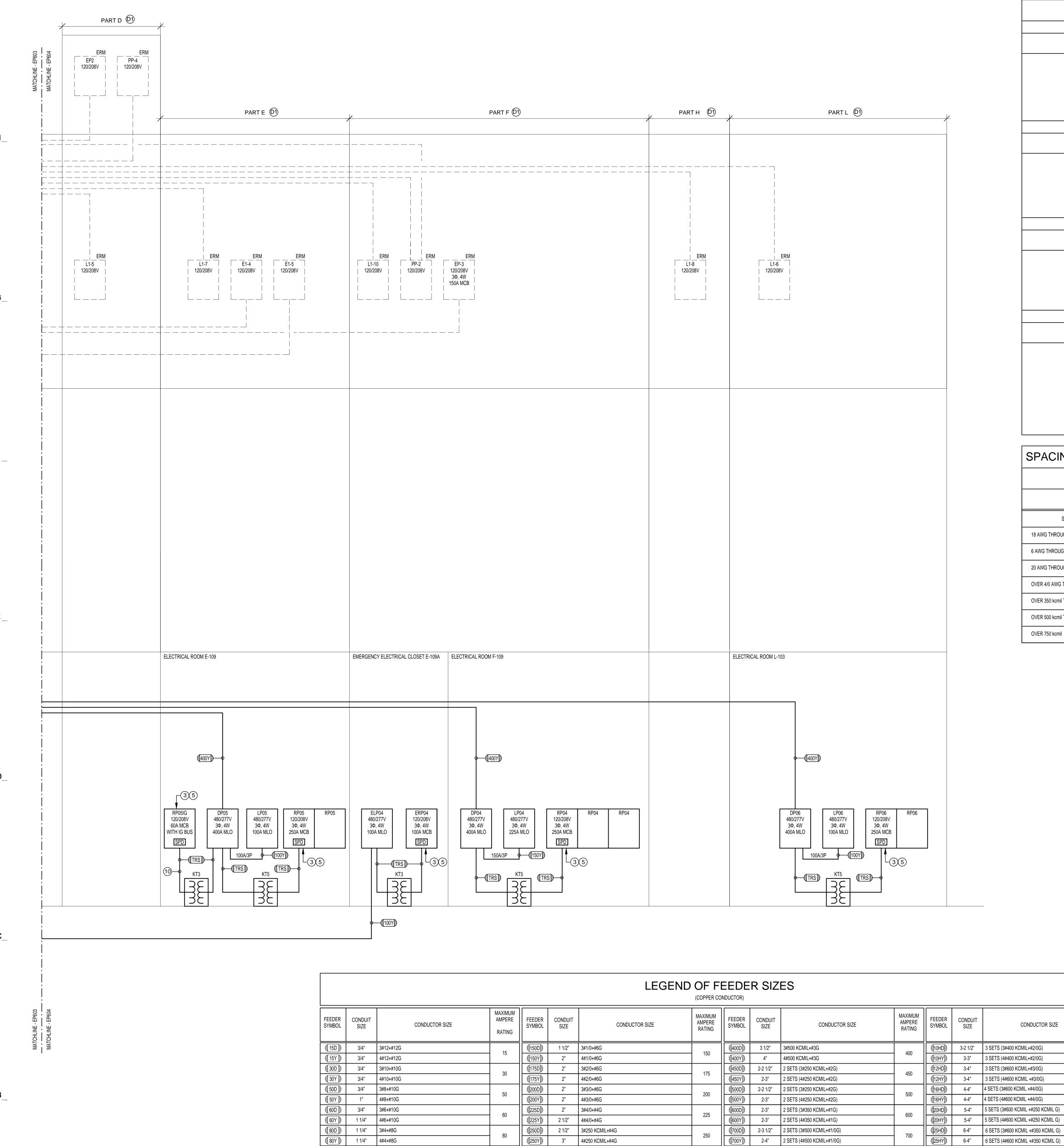
FOR KEY NOTES, REFER TO DWG. EP601

**EP602** 

SYMMES MAINI & McKEE ASSOCIATES Cambridge, Massachusetts 02138 PART A (D1) PART B (D1) PART C (D1) P:617.547.5400 F:617.648.4920 MARGO JONES

Architects \_\_\_\_\_\_ \_\_\_\_\_\_\_ -------STAMPS EMERGENCY ELECTRICAL ELECTRICAL ROOM A-119 AUTO TECH A-101 WOOD SHOP A-103 ELECTRICAL ROOM B-107 (400Y) ATPP 120/208V 3Ф, 4W 150A MCB WITH SHUNT TRIP ELP03 480/277V 3Ф, 4W 100A MLO DP02 480/277V 3Ф, 4W 400A MLO (150Y) DP03 480/277V 3Ф, 4W 400A MLO WSPP 120/208V LP03 480/277V3 120/208V 3Ф, 4W 3Ф, 4W 100A MLO 250A MCB 150A MCB 100A MLO 250A MCB WITH SHUNT TRIP 100A/3P 100Y E.P.O. E.P.O. 60Y 1 03/28/2013 SCHEMATIC DESIGN MARK: DATE: ISSUE LOG = CLOUDED CHANGE © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012 POWER ONE-LINE **DIAGRAM PART 3** 

FOR KEY NOTES, REFER TO DWG. EP601



300D 3" 3#350 KCMIL+#4G

300Y 3" 4#350 KCMIL+#4G

350D 3 1/2" 3#500 KCMIL+#3G

(350Y) 4" 4#500 KCMIL+#3G

80Y 1 1/4" 4#4+#8G

100D 1 1/4" 3#2#8G

100Y 1 1/4" 4#2+#8G

(125D) 1 1/2" 3#1#6G

1 1/2" 4#1+#6G

TRS AND GROUNDING FEEDER SIZES

REFER TO TRANSFORMER SCHEDULE FOR PRIMARY, SECONDARY

NOTE: REFER TO ONE LINE RISER DIAGRAMS FOR MEDIUM AND HIGH VOLTAGE FEEDER SIZES

VC	VOLTAGE DROP CHART					
	120 V CI	RCUITS				
LOAD	CONDUCTOR	SIZE /	MAX LENGTH			
UP TO	#12	#10	#8			
800 VA	155 FT	245 FT	390 FT			
1000 VA	125 FT	195 FT	310 FT			
1200 VA	105 FT	165 FT	260 FT			
1400 VA	90 FT	140 FT	220 FT			
1600 VA	80 FT	125 FT	195 FT			
1800 VA	70 FT	110 FT	175 FT			
	277 V (	CIRCUITS				
LOAD	CONDUCTOR	SIZE /	MAX LENGTH			
UP TO	#12	#10	#8			
2000 VA	330 FT	525 FT	830 FT			
2500 VA	265 FT	420 FT	665 FT			
3000 VA	220 FT	350 FT	555 FT			
3500 VA	190 FT	300 FT	475 FT			
4000 VA	165 FT	260 FT	415 FT			
-4	8 V DC BRAN	L CH CIRCUITS	S (-1 VOLT)			
LOAD	CONDUCTOR	SIZE /	MAX LENGTH			
UP TO	#8	#4	#1/0			
10 A.	65 FT	162 FT	410 FT			
20 A.	33 FT	81 FT	205 FT			
30 A.	22 FT	54 FT	136 FT			
40 A.	16 FT	40 FT	102 FT			
60 A.		27 FT	68 FT			
-4	8 V DC MAIN	I FEEDERS (-1	VOLT)			
LOAD	CONDUCTOR	SIZE /	MAX LENGTH			
UP TO	#350	#500	#750			
100 A.	136 FT	194 FT	292 FT			
150 A.	91 FT	156 FT	195 FT			
400 A.	34 FT	58 FT	73 FT			
600 A.		39 FT	48 FT			
800 A.			36 FT			

#### SPACING FOR VERTICAL CONDUCTOR SUPPORTS

	480V FEEDER		CON	DUCTORS	
		ALUMIN COPPER-CLA		COF	PER
SIZE OF WIRE	SUPPORT OF CONDUCTORS IN VERTICAL RACEWAYS	m	ft	m	ft
18 AWG THROUGH 8 AWG	NOT GREATER THAN	30	100	30	100
6 AWG THROUGH 1/0 AWG	NOT GREATER THAN	60	200	30	100
20 AWG THROUGH 4/0 AWG	NOT GREATER THAN	55	180	25	80
OVER 4/0 AWG THROUGH 350 kcmil	NOT GREATER THAN	41	135	18	60
OVER 350 kcmil THROUGH 500 kcmil	NOT GREATER THAN	36	120	15	50
OVER 500 kcmil THROUGH 750 kcmil	NOT GREATER THAN	28	95	12	40
OVER 750 kcmil	NOT GREATER THAN	26	85	11	35

AMPERE RATING

CONDUCTOR SIZE

[25HY]) 6-4" 6 SETS (4#600 KCMIL +#350 KCMIL G)

(50HD) 12-4" 12 SETS (3#600 KCMIL +#600 KCMIL G)

450 | 12H\* 3-4" | CONDUIT ONLY - CONDUCTORS ARE FUTURE

800 20H\* 5-4" CONDUIT ONLY - CONDUCTORS ARE FUTURE

10-4" 10 SETS (3#600 KCMIL +#500KCMILG)

10-4" 10 SETS (4#600 KCMIL +#500KCMILG)

12-4" 12 SETS (4#600 KCMIL +#600 KCMIL G)

700Y 2-4" 2 SETS (4#500 KCMIL+#1/0G)

800D 2-3 1/2" 2 SETS (3#600 KCMIL+#1/0G)

2-4" 2 SETS (4#600 KCMIL+#1/0G)

900D 3-2 1/2" 3 SETS (3#350 KCMIL+#2/0G)

3-3" 3 SETS (4#350 KCMIL+#2/0G)

450\* 2-3" CONDUIT ONLY - CONDUCTORS ARE FUTURE

800\* 2-4" CONDUIT ONLY - CONDUCTORS ARE FUTURE

BRANCH CIRCUITS SCHEDULE					
120 OR 277 VOL	T 1□, 2W. CIRCUITS				
CIRCUIT BREAKER	CONDUCTOR				
30A-1P	2 #10 & 1 #10 GND 3/4"C.				
40A-1P	2 #8 & 1 #10 GND 3/4"C.				
50A-1P	2 #6 & 1 #10 GND 3/4"C.				
60A-1P	2 #6 & 1 #10 GND 3/4"C.				
208 VOLT 1□, 2W. CIRCUITS					
20A-2P	2 #12 & 1 #12 GND 3/4"C.				
30A-2P	2 #10 & 1 #10 GND 3/4"C.				
40A-2P	2 #8 & 1 #10 GND 3/4"C.				
50A-2P	2 #6 & 1 #10 GND 3/4"C.				
60A-2P	2 #6 & 1 #10 GND 3/4"C.				
208 OR 480 VOLTS, 3□, 3W. CIRCUITS					
15A-3P, 20A-3P	3 #12 & 1 #12 GND 3/4"C.				
30A-3P	3 #10 & 1 #10 GND 3/4"C.				
40A-3P	3 #8 & 1 #10 GND 3/4"C.				
50A-3P	3 #6 & 1 #10 GND 3/4"C.				
60A-3P	3 #6 & 1 #10 GND 3/4"C.				

1. TYPE MC CABLE SHALL INCLUDE FULL SIZE INSULATED GROUND CONDUCTOR. SIZES AS INDICATED IN SCHEDULE.

2. UPGRADE WIRE SIZE ACCORDING TO VOLTAGE DROP CHART

# THREE PHASE AND SINGLE PHASE CIRCUIT

UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS AND RACEWAY WHERE INDICATED.

SCHEDULE NOTES

- PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON THE DRAWINGS
- PROVIDE NEUTRAL IN CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
- MINIMUM SIZE CONDUIT FOR SCHEDULE 80 OR ENT IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE
- PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.
- PROVIDE ADDITIONAL ISOLATED GROUND CONDUCTOR SAME SIZE AS THE EQUIPMENT GROUND. IN CIRCUITS TO ISOLATED GROUND PANELS OR DEVICES, GREEN WITH YELLOW STRIPE.

SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE. DO NOT INSTALL PVC INDOORS.

- FOR PANELS WITH 200% NEUTRAL PROVIDE 200% NEUTRAL USING TWO PHASE SIZED CONDUCTORS IF SIZE #1/0 OR LARGER,
- OTHERWISE PROVIDE (1) #3/0 NEUTRAL. PROVIDE SEPARATE INDIVIDUAL NEUTRAL FOR ALL CIRCUITS EXCEPT LIGHTING CIRCUITS. PROVIDE A DEDICATED NEUTRAL
- FOR GFCI OR AFCI CIRCUITS. CIRCUIT SIZING BASED ON 600 VOLT 90°C RATED INSULATION. INTERIOR TYPE THHN/THWN-2 OR XHHW-2 (LARGER THAN SIZE #6), FOR EXTERIOR OR BELOW GRADE UTILIZE RHW-2/USE-2 IN CONDUIT ONE SIZE LARGER. SIZING BASED ON 60°C
- FOR SERVICE ENTRANCE CONDUCTORS IT IS NOT REQUIRED TO INSTALL THE GROUNDING CONDUCTOR. THE NEUTRAL CONDUCTOR IS FULL SIZED AND IS BONDED TO THE GROUNDING ELECTRODE CONDUCTOR AT THE TRANSFORMER AND THE
- SERVICE DISCONNECT. FOR BATTERY CABLES, INSTALL AND GROUP IN PAIRS (ONE POSITIVE AND ONE NEGATIVE CONDUCTOR) MARK POSITIVE

#### TRANSFORMER SCHEDULE NOTES

CONDUCTOR WITH 5 OVERLAPPING WRAPS OF RED ELECTRICAL TAPE ON EACH END.

AMPACITIES FOR 100A OR LESS AND 75°C AMPACITIES OVER 100A.

- 1. BOND NEUTRAL OF TRANSFORMER SECONDARY TO THE TRANSFORMER CASE, WITH BONDING JUMPER.
- 2. GROUND THE CASING OF THE TRANSFORMER TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL AND/OR DRIVEN GROUND ROD IN ACCORDANCE WITH N.E.C. 250-50 AND 250-52.
- 3. ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS. N.E.C. TABLE 310-16.
- 4. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN (10) FEET OF THE TRANSFORMER SECONDARY TERMINALS EITHER IN A PANELBOARD (MAIN BREAKER) OR A INDIVIDUALLY MOUNTED CIRCUIT BREAKER.
- 5. TRANSFORMER BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR, EXCEPT NOTED OTHERWISE.
- 6. TRANSFORMER BONDING JUMPER (1-300kcmil).

		"K" F	ACTOR D	RY TYPE TRANSF	ORMER SCHEDU	LE
SIZE	kVA	480 VOLT OVERCURRENT	208 VOLT OVERCURRENT	480V FEEDER	120/208V FEEDER	GROUNDING 5
KT1	9	20A, 3P	30A, 3P	3#12 & 1#12G - 3/4"C.	3#10, 1#6 NEUTRAL & 1#10 - 3/4"C.	1#8 - 3/4"C
KT2	15	30A, 3P	50A, 3P	3#10 & 1#10G - 3/4"C.	3#6, 1#3 NEUTRAL & 1#8G - 1"C.	1#8 - 3/4"C
KT3	30	60A, 3P	100A, 3P	3#6 & 1#10G - 1"C.	3#3, 1#3/0 NEUTRAL & 1#8G - 1 1/2"C	1#8 - 3/4"C
KT4	45	80A, 3P	150A, 3P	3#4 & 1#8G - 1 1/4"C.	3#1/0, 2#1/0 NEUTRAL & 1#6G - 2"C.	1#6 - 3/4"C
KT5	75	150A, 3P	250A, 3P	3#1/0 & 1#6G - 1 1/2"C.	3-250kcmil, 2-250kcmil NEUTRAL & 1#2G - 3"C.	1#2 - 3/4"C
KT6	112.5	200A, 3P	400A, 3P	3#3/0 & 1#6G - 2"C.	3-500kcmil, 2-500kcmil NEUTRAL & 1#1/0G - 4"C.	1#1/0 - 3/4"C.
KT7	150	300A, 3P	500A, 3P	3-350kcmil & 1#4G - 3"C.	6-250kcmil, 4-250kcmil NEUTRAL & 2#1/0G, 2-3"C.	1#1/0 - 3/4"C
KT8	225	400A, 3P	800A, 3P	3-500kcmil & 1#3G - 3 1/2"C.	9-300kcmil, 6-300kcmil NEUTRAL & 3#2/0G, 3-3"C.	1#2/0 - 3/4"C
KT9	300	600A, 3P	1,000A, 3P	6-350kcmil & 2#1G 2-3"C.	9-400kcmil, 6-400kcmil NEUTRAL & 3#3/0G, 3-4"C.	1#3/0 - 3/4"C
KT10	500	900A, 3P	1,600A, 3P	9-350kcmil & 3#2/0G 3-3"C.	12-600kcmil, 8-600kcmil NEUTRAL & 4#3/0G, 4-4"C.	1#3/0 - 3/4"C 6

			DRY TY	PE TRANSFORME	R SCHEDULE	
ID	kVA	480 VOLT OVERCURRENT	208 VOLT OVERCURRENT	480V FEEDER	120/208V FEEDER	GROUNDING 5
T1	9	20A, 3P	30A, 3P	3#12 & 1#12G - 3/4"C.	4#10 & 1#10G - 3/4"C.	1#8 - 3/4"C
T2	15	30A, 3P	50A, 3P	3#10 & 1#10G - 3/4"C.	4#6 & 1#8G - 1"C.	1#8 - 3/4"C
Т3	30	60A, 3P	100A, 3P	3#6 & 1#10G - 1"C.	4#3 & 1#8G - 1 1/4"C.	1#8 - 3/4"C
T4	45	80A, 3P	150A, 3P	3#4 & 1#8G - 1 1/4"C.	4#1/0 & 1#6G - 2"C.	1#6 - 3/4"C
T5	75	150A, 3P	250A, 3P	3#1/0 & 1#6G - 1 1/2"C.	4-250kcmil & 1#2G - 3"C.	1#2 - 3/4"C
T6	112.5	200A, 3P	400A, 3P	3#3/0 & 1#6G - 2"C.	4-500kcmil & 1#1/0G - 4"C.	1#1/0 - 3/4"C.
T7	150	300A, 3P	500A, 3P	3-350kcmil & 1#4G - 3"C.	8-250kcmil & 2#1/0G 2-3"C.	1#1/0 - 3/4"C
Т8	225	400A, 3P	800A, 3P	3-500kcmil & 1#3G - 3 1/2"C.	8-600kcmil & 2#3/0G 2-4"C.	1#3/0 - 3/4"C
Т9	300	600A, 3P	1000A, 3P	6-350kcmil & 2#1G 2-3"C.	12-400kcmil & 3#3/0G 3-3"C.	1#3/0 - 3/4"C
T10	500	0004 2D	1600A 2D	9-350kcmil & 3#2/0G	16-600kcmil & 4#3/0G	1#2/0 2/4"0

1 03/28/2013 SCHEMATIC DESIGN MARK: DATE: DESCRIPTION: ISSUE LOG = CLOUDED CHANGE 12" = 1'-0" DRAWN BY © SYMMES, MAINI & MCKEE ASSOCIATES, INC. 2012

SYMMES MAINI & McKEE ASSOCIATES

Cambridge, Massachusetts 02138 P:617.547.5400 F:617.648.4920

MARGO JONES

Monument Mountain Regional

High School

600 STOCKBRIDGE RD,

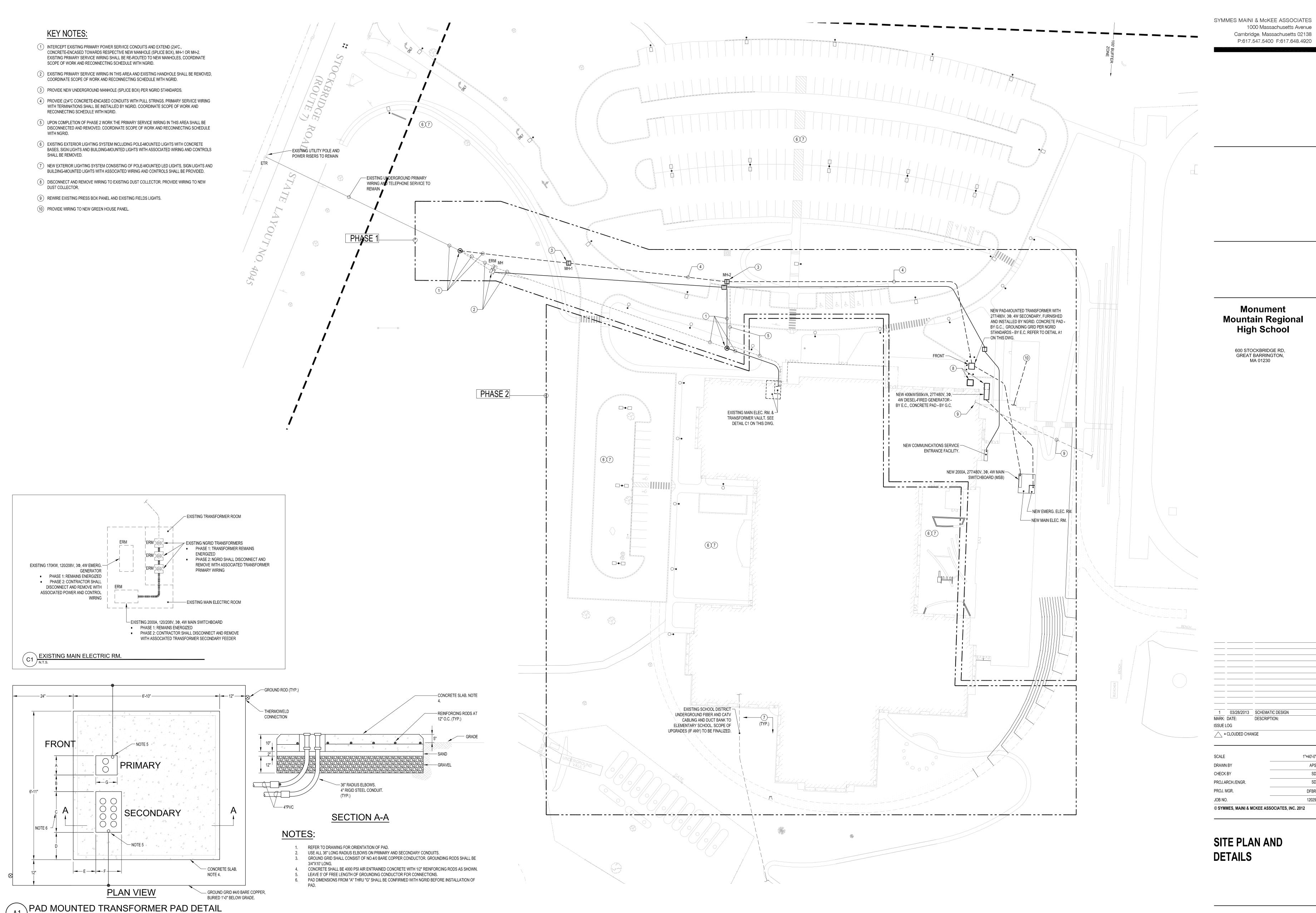
GREAT BARRINGTON, MA 01230

STAMPS

POWER ONE-LINE DIAGRAM PART 4 AND **SCHEDULES** 

FOR KEY NOTES, REFER TO DWG. EP601





**E**9101

Monument

RISER DIAGRAM NOTES: 1 COMMUNICATIONS ENTRANCE FACILITY

-DATA WAN

BACKBONE INFRASTRUCTURE - EXTEND IN STAR TOPOLOGY TO EACH DATA ROOM AND NETWORK TELECOMM. ROOM:

-MULTIPAR COPPER FOR VOICE (PAIR COUNT AS REQUIRED FOR EACH VOICE OUTLET PLUS 20% SPARE)

-12-STRAND MULTIMODE FIBER OPTIC CABLE

-1/2" HARDLINE COAXIAL CABLE (CATV)

-CLOCK/INTERCOM/PA (FROM ROOM 140 TO IDF LOCATIONS. NOT REQUIRED FROM DEMARCATION ROOM)

COMMUNICATION EQUIPMENT ROOMS INCLUDING:

-CABLE TRAYS
-EQUIPMENT RACKS
-PATCH PANELS
-POWER STRIPS
-GROUNDING AND BONDING
-TELEPHONE PUNCH DOWN BLOCKS
-PROVIDE QUANTITY OF DEVICES AS REQUIRED FOR COMPLETE SYSTEMS

6 TELEPHONE SWITCH, CATV HEAD END, SECURITY SYSTEM CONTROL PANEL, CLOCK/INTERCOM/PA HEAD END.

8 CATY DISTRIBUTION TAPS (QTY AS REQUIRED PLUS 20% FUTURE GROWTH).

9 NETWORK PATCH PANELS AND EQUIPMENT RACKS.

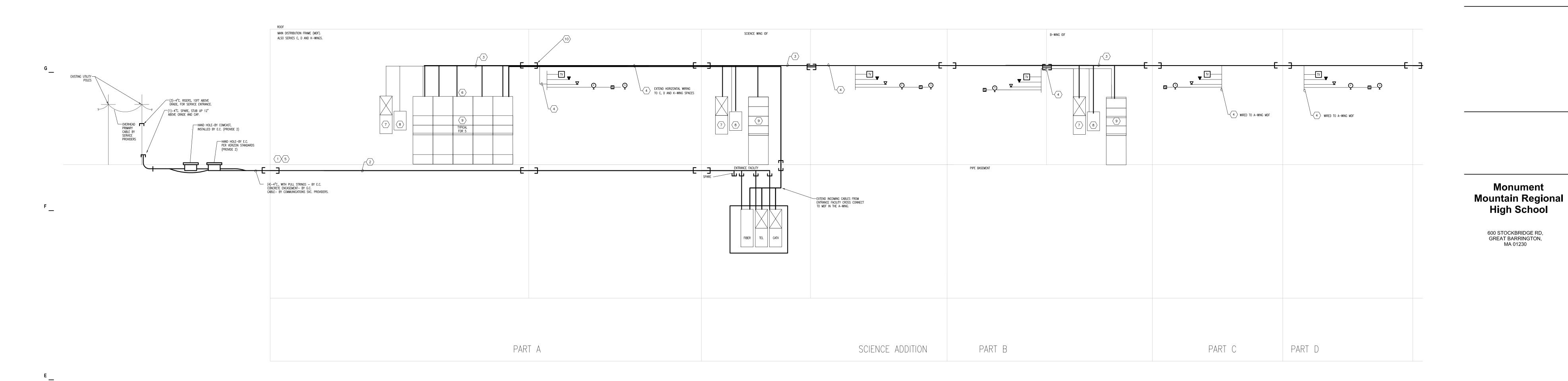
10 4-4" CONDUITS (TYPICAL)

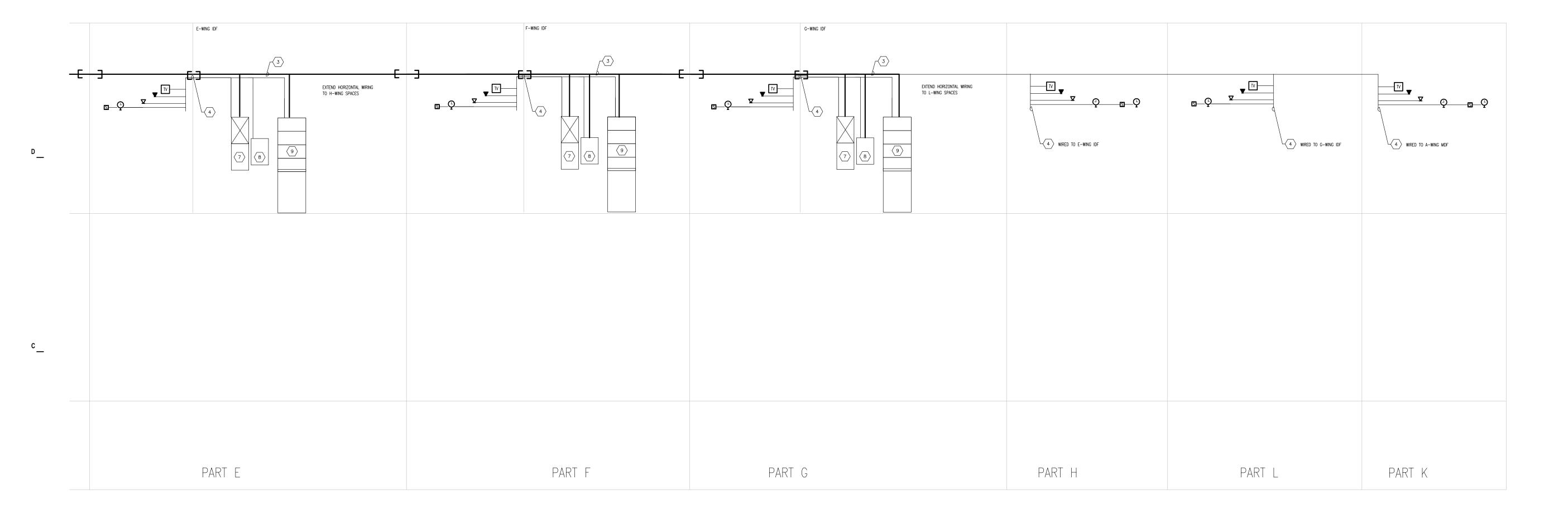
4 TYPICAL HORIZONTAL CABLING FROM EACH IDF/MDF TO DISTRIBUTED DEVICES

▼ DATA/UTP CAT6 ▼ TELEPHONE/UTP CAT6 TV CATV/COAXIAL

#### RISER DIAGRAM GENERAL NOTES:

1. REFER TO ELECTRICAL SITE PLANS FOR LOCATION AND QUANTITY OF HAND HOLES. 2. REFER TO POWER PLANS AND E3.01 FOR COMPLETE ROOM LOCATIONS AND LAYOUT DETAILS.





		_
		_
	-	_
1	03/28/2013	SCHEMATIC DESIGN
	DATE:	DESCRIPTION:
ISSUE	LOG	
ISSUE	LOG = CLOUDED CHA	
ISSUE	LOG = CLOUDED CHA	
SCALE	LOG = CLOUDED CHA : : N BY	
SCALE DRAW CHECK	LOG = CLOUDED CHA : : N BY	
SCALE DRAW CHECK	LOG = CLOUDED CHA N BY K BY ARCH./ENGR.	

COMMUNICATIONS **ONE-LINE DIAGRAM** 

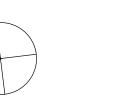
MARGO JONES

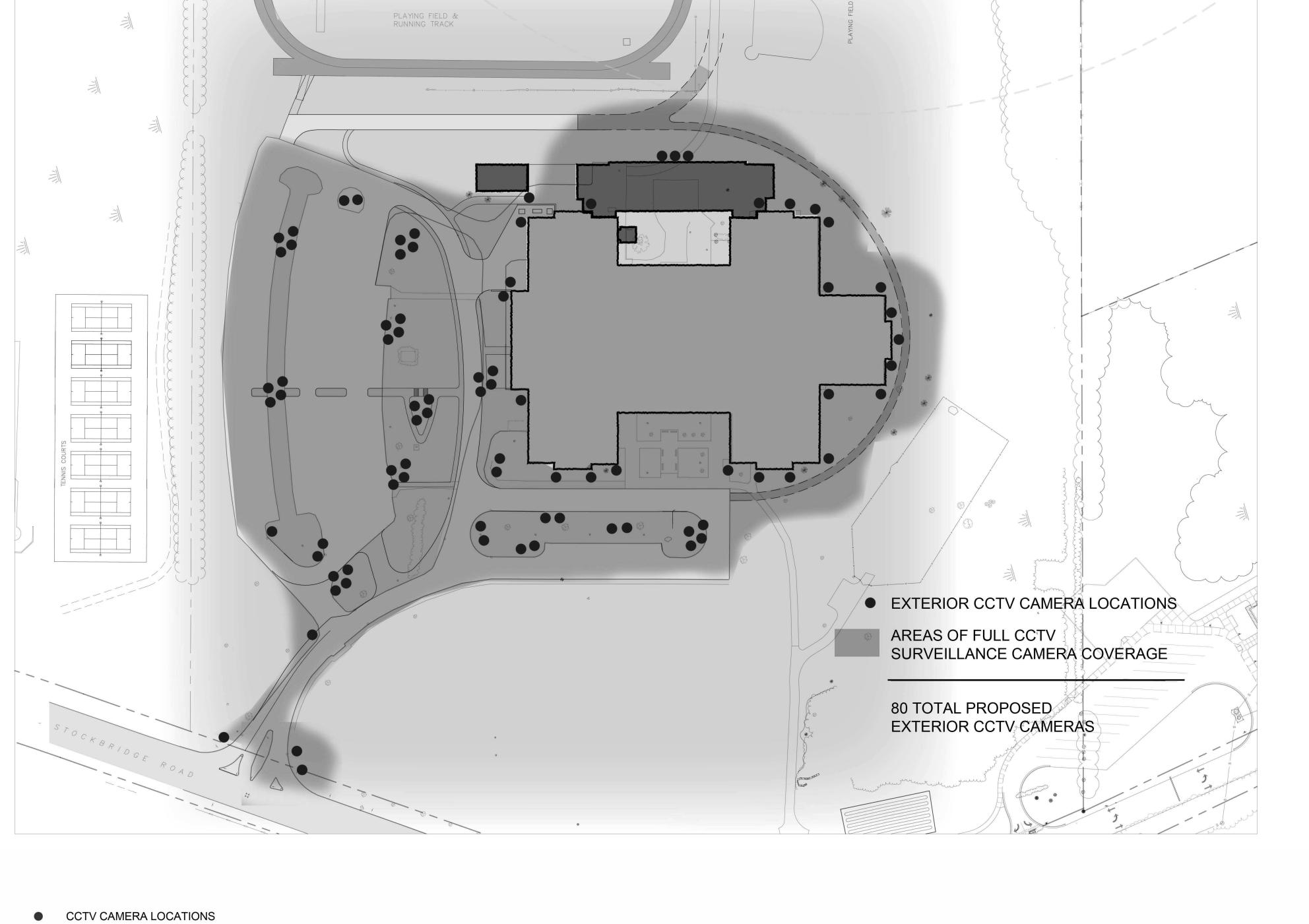
Architects

STAMPS

Monument
Mountain Regional
High School

600 STOCKBRIDGE RD,
GREAT BARRINGTON, MA 01230



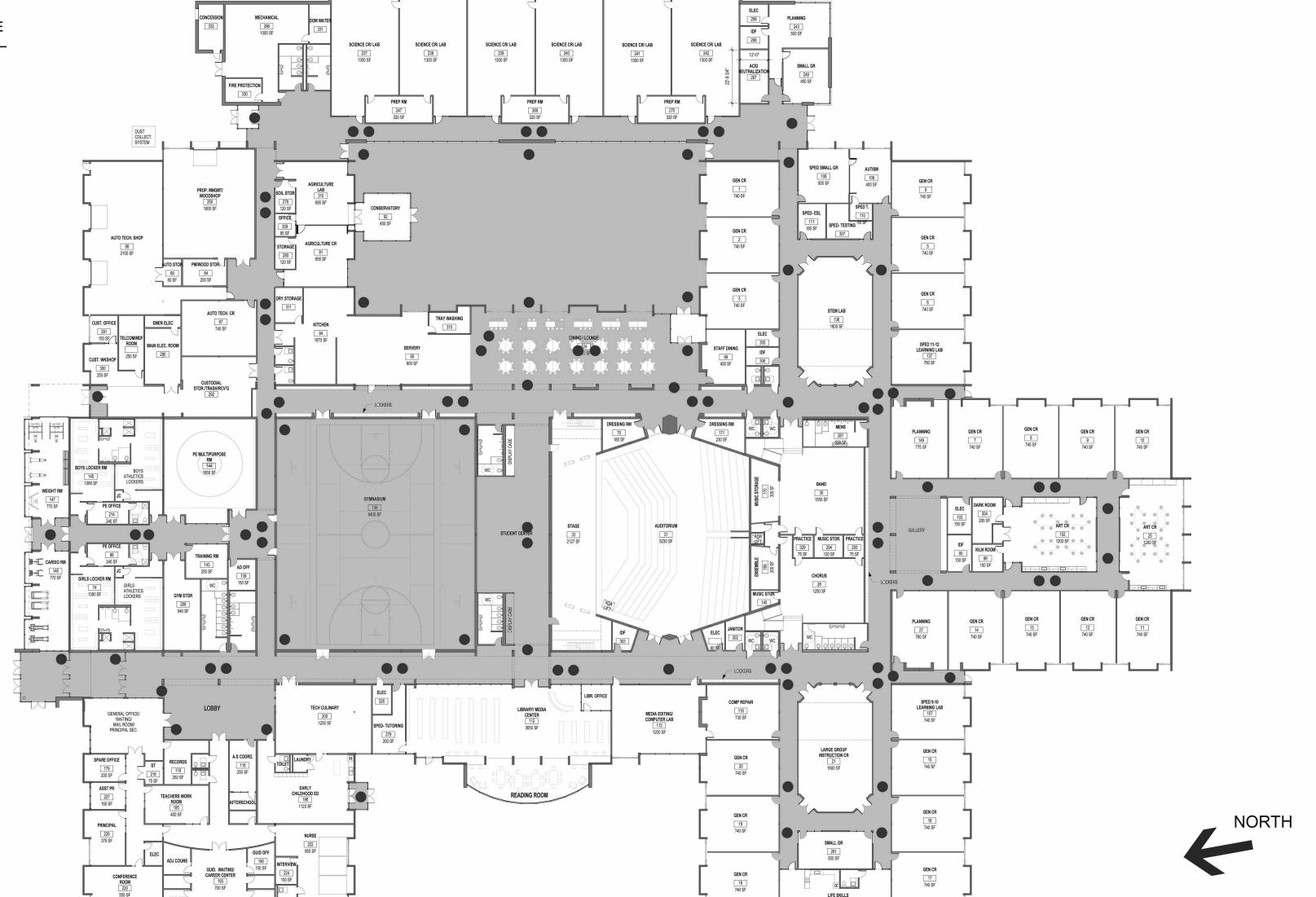


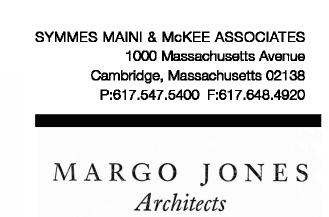
z

CCTV CAMERA LOCATIONS

AREAS OF FULL CCTV
SURVEILLANCE COVERAGE

**100** TOTAL PROPOSED INTERIOR CCTV CAMERAS





STAMPS

Monument
Mountain Regional
High School

600 STOCKBRIDGE RD,
GREAT BARRINGTON, MA 01230

ACCESS CONTROL DIAGRAM

