Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 12/08/14

AMPERE	
ALTERNATING CURRENT	
ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKBD	BACKBOARD
C	CONDUIT
CAT	CATALOG, CATEGORY
CATV	CABLE TV
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CM	CIRCULAR MILS
COMM	COMMUNICATIONS
CU	MECH CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
DC	DIRECT CURRENT
DDC	DIGITAL DIRECT CONTROL
DN	DOWN
DW	DISHWASHER
DWG	DRAWING
EF	EXHAUST FAN
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
ERU	ENERGY RECOVERY UNIT
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX
FLA	FULL LOAD AMPS
FWE	FURNISHED WITH EQUIPMENT
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATION AND COOLING UNIT
IDS	INTRUSION DETECTION SYSTEM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
K	KILO
KCMIL	KILO CIRCULAR MILS
KW	KILOWATT
KVA	KILO VOLT-AMPS
LAN	LOCAL AREA NETWORK
LC	LIGHTING CONTACTOR
LF	LINEAR FEET
LC	LOADCENTER
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MH	MOUNTING HEIGHT
MC	MICROPHONE
MICRO	MICROWAVE
MLO	MAIN LUG ONLY
MT	MOUNT
MTS	MANUAL TRANSFER SWITCH
MCP	MOTOR CONTROL PANEL
MH	METAL HALIDE
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NO	NORMALLY OPEN
NO., #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANCY
OH	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PH,	PHASE
PIR	PASSIVE INFRARED
PNL	PANELBOARD
P/O	PART OF
PV	PHOTOVOLTAIC
PVC	POLY-VINYL CHLORIDE
REC,	RECEPTACLE
REF	REFRIGERATOR
RECEPT	
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RTU	ROOFTOP UNIT
REF	REFRIGERATOR
SF	SUPPLY FAN
SPDT	SINGLE POLE, DOUBLE THROW
SQ	SQUARE
TEL	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
WG	WIREGUARD
XFMR	TRANSFORMER
(E)	EXISTING ITEM TO REMAIN
(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
(ER)	RELOCATED ITEM AT NEW LOCATION
(RL)	REMOVE AND RELOCATE

A1 ABBREVIATIONS

NO SCALE

LIGHT FIXTURE, RECESSED TROFFER, TYPICAL
RECESSED DOWNLIGHT
RECESSED WALL WASHER DOWNLIGHT
WALL MOUNTED LIGHT FIXTURE
CEILING SURFACE MOUNTED LIGHT FIXTURE
PENDANT MOUNTED LIGHT FIXTURE
LINEAR LIGHT FIXTURE, CEILING SURFACE MOUNTED
LINEAR LIGHT FIXTURE, PENDANT MOUNTED
LINEAR LIGHT FIXTURE, WALL MOUNTED
RB — REMOTE BALLAST, ALLOW 9" IN ALL DIRECTIONS BETWEEN BALLASTS

TYPICAL FOR ALL FIXTURE TYPES:

F1 a # — INDICATES LUMINAIRE TYPE ON SCHEDULE; LOWER CASE LETTER INDICATES SWITCHING; INDICATES CIRCUIT NUMBER

F3 LUMINAIRES

NO SCALE

DUPLEX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R
DOUBLE DUPLEX RECEPTACLE
DUPLEX RECEPTACLE, HATCH INDICATES CONNECTION TO XXX
GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
WP — GFCI RECEPTACLE WITH WEATHERPROOF COVER
GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
MULTI-OUTLET STRIP, PROVIDE OUTLETS 24" OC UNO, MOUNT 48" AFF UNO

NOTES:

1. MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO

F3 RECEPTACLES

NO SCALE

C — CLOCK OUTLET WITH HOOK ~ CONNECT TO NEAREST 120V CIRCUIT
LC — LARGE CLOCK
S — SPEAKER, CEILING MOUNTED ~ WIRING TO INTERCOM SYSTEM BY OTHERS
S — SPEAKER ~ WALL MOUNTED
CS — SPEAKER ~ HIGH OUTPUT ~ CEILING MOUNTED
SS — LARGE SPEAKER
IC — INTERCOM

C3 CLOCKS AND SPEAKERS (PA)

NO SCALE

1. BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.
3. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
5. COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
6. VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN
7. POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.
8. NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.

A3 GENERAL NOTES

NO SCALE

HATCHING INDICATES FIXTURE WITH ONE LAMP ON EMERGENCY BATTERY/BALLAST
BP# / 2 — EMER BATTERY UNIT WITH NO HEADS, MT 7'-6"AFF; BP# INDICATES BATTERY UNIT DESIGNATION; NUMBER INDICATES CIRCUITING
BP# / 2 — EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6"AFF; BP# INDICATES BATTERY UNIT DESIGNATION; NUMBER INDICATES CIRCUITING
BP# — SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6"AFF; BP# INDICATES BATTERY UNIT CONNECTED TO
BP# — DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6"AFF; BP# INDICATES BATTERY UNIT CONNECTED TO
2 — EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S); ARROWHEAD INDICATES CHEVRON(S) REQUIRED; NUMBER INDICATES CIRCUIT NUMBER
2 — EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S); MOUNT AT 7'-6"AFF OR OVER DOOR; NUMBER INDICATES CIRCUIT NUMBER

F5 EMERGENCY LUMINAIRES

NO SCALE

20A, 125V, 2P, 3W, NEMA 5-20R
L5 — 20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
L9 — 30A DRYER RECEPTACLE ~ 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER
L6 — 30A, 250V, 2P, 3W, NEMA 6-30R
L15 — 50A RANGE RECEPTACLE ~ 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3)#6+(1)#10 TO 50A, 2P CIRCUIT BREAKER

NOTE:

PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES

F5 SINGLE RECEPTACLES

NO SCALE

NOTE

SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

LSE — LOCAL SOUND EQUIPMENT
MIC — MICROPHONE JACK OUTLET
LSS — LOCAL SOUND SYSTEM LARGE SPEAKER
LS — LOCAL SOUND SYSTEM SPEAKER

C5 LOCAL SOUND SYSTEM

NO SCALE

W — TELEPHONE WALL OUTLET, 44" AFF UNO WITH 1"C UP TO ACCESSIBLE CORRIDOR CEILING SPACE
E — TELEPHONE OUTLET FOR ELEVATOR CONNECTION
TELEPHONE OUTLET, 18" AFF UNO
TEL/DATA OUTLET, 18" AFF UNO, WITH 1"C UP TO ACCESSIBLE CORRIDOR CEILING SPACE
DATA OUTLET, 18" AFF UNO
WA — WIRELESS ACCESS POINT CEILING MOUNTED
WA — WIRELESS ACCESS POINT WALL MOUNTED

1. PROVIDE BOXES, RACKS, ETC. WHERE INDICATED OR NEEDED
2. IN AREAS WITHOUT CEILINGS, CONDUIT PROVIDED TO NEAREST ACCESSIBLE CORRIDOR CEILING ~ 1" CONDUIT TO SINGLE GANG BOXES, 1 1/4" CONDUIT TO DOUBLE GANG BOXES.

A5 TECHNOLOGY

NO SCALE

FACP — FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72"AFF
FAA — FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72"AFF
S — SMOKE DETECTOR
S E — SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
S SS — SINGLE STATION SMOKE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, MOUNT ON WALL
S SS AV — SINGLE STATION SMOKE DETECTOR WITH AUDIBLE/VISUAL INDICATING APPLIANCE
H — HEAT DETECTOR
H E — HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
D — DUCT SMOKE DETECTOR
D — GAS VALVE
L — FLAME DETECTOR, ARROW INDICATES DIRECTION OF COVERAGE
RTS — REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
F — MANUAL PULL STATION, MOUNT 48" AFF
30 F — HORN/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
30 S — SPEAKER/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
15 P — STROBE ONLY NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
R P — STROBE NOTIFICATION APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
M — MINI HORN NOTIFICATION APPLIANCE
30 F F — HORN/STROBE WITH PULL STATION DIRECTLY BELOW
DH — MAGNETIC DOOR HOLD OPEN DEVICE
T — TRANSFORMER
F — SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
T — SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
C P — SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
K — SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
SD — KNOX BOX, PROVIDE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS
FSD — SMOKE DAMPER
FIRE AND SMOKE DAMPER

D7 FIRE ALARM SYSTEM

NO SCALE

$a — LIGHT SWITCH, 20A,125/277V
$3 — THREE-WAY LIGHT SWITCH
$4 — FOUR-WAY LIGHT SWITCH
$2 — TWO-POLE SWITCH
$K — KEY OPERATED SWITCH
$M — MOTOR RATED SWITCH
$P — SINGLE POLE SWITCH WITH RED PILOT LIGHT ~ RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
$a $b — MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING
$OS — OCCUPANCY SENSOR SWITCH, WALL MOUNTED
$OS2 — 2-BUTTON OCCUPANCY SENSOR SWITCH
OS — OCCUPANCY SENSOR, CEILING MOUNTED
OS — OCCUPANCY SENSOR, WALL MOUNTED
$D — 0-10V DIMMER SWITCH
$FD — FLUORESCENT DIMMER SWITCH
$F $L — HANDICAP SWITCHES FOR HOOD LIGHT AND FAN
$T — TIMER SWITCH, 60 MINUTES
$LV — LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT
LTC — LIGHTING TIME CLOCK
LC — LIGHTING CONTACTOR
LCP — LIGHTING CONTROL PANEL
PC — PHOTOCELL

NOTES:

1. MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO
2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

A7 LIGHT SWITCHES

NO SCALE

PANELBOARD ~ SURFACE MOUNTED
PANELBOARD ~ FLUSH MOUNTED
FUSED DISCONNECT SWITCH
NON-FUSED DISCONNECT SWITCH
00 — MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE
00 — COMBINATION MOTOR STARTER/FUSED DISCONNECT
MECHANICAL PUMP
MOTOR OR FAN
M — METER AND CABINET
J — JUNCTION BOX ~ CEILING MOUNTED
J — JUNCTION BOX ~ WALL MOUNTED
J — JUNCTION BOX ~ FLOOR MOUNTED
J — JUNCTION BOX ~ PEDESTAL MOUNTED
T# — TRANSFORMER ~ NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
VFD — VARIABLE FREQUENCY DRIVE
TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
E — EMERGENCY SHUTOFF SWITCH ~ WALL MOUNTED 48" TO CENTERLINE ~ PROVIDE TAMPER-PROOF COVER
CONDUIT TURNING UP
CONDUIT TURNING DOWN
WIRING UNDERGROUND OR UNDERSLAB
HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT COMPUTER AND LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
FLEXIBLE CONNECTION
GROUNDING SYSTEM
P — POWER POLE
PUSHBUTTON
C — DOORBELL CHIME
F — SYSTEMS FURNITURE WHIP
P — MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIVISION 08, WIRED BY DIVISION 26

D9 POWER DISTRIBUTION

NO SCALE

F — DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
F — DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
F J — JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX
F E — EMPTY FLUSH FLOOR BOX
P — DUPLEX RECEPTACLE, PEDESTAL MOUNTED
P — SINGLE RECEPTACLE, PEDESTAL MOUNTED
P J — JUNCTION BOX, PEDESTAL MOUNTED
C — DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
C — DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE
C J — JUNCTION BOX, FLUSH MOUNTED IN CEILING
OVERHEAD RECEPTACLE DROP, DUPLEX
OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX
OVERHEAD RECEPTACLE DROP, GFCI

A9 FLOOR AND CEILING DEVICES

NO SCALE

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CAD File:

Minor Interior Renovations at 196 Allen Avenue for Casco Bay High School 196 Allen Avenue, Portland Maine

NORTH

STATE OF MAINE
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No. 7575
LICENSED
PROFESSIONAL ENGINEER

JOB NO. 14036

DRWN. GMC CHK KN

SCALE: As indicated

ISSUE STATUS CONSTRUCTION
ISSUE DATE APRIL 18, 2014

TITLE
ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES

SHEET
E-000

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