WHERER R. INGALLS, etc. ARCHITECTAL) TACHANGE STREET, CORTLAND, SANSIE OF

May 5, 1975

Wiley Construction Co. Black Point Road Sourborough, Maine

Re: PRVTO

Gentlemen:

We received one set of sprinkler system shop drawings (dwgs. lefor Building "A" only) on April 24, 1975 - inlivered directly to me. They do not beer the required ISO stamp, however on April 28 we received a copy of ISO's letter of approval, so we have proceeded to check these drawings. This is to inform you have proceeded to check these drawings. This is to inform you that these are "approved as noted" with the fallowing comments:

- 1. Flow switches are not shown. I have obtained proposed locations from Mr. Spaulding of Carco and have sent him a sketch showing necessary revisions in the first floor main for these.
- 2. The heads at either side of the door to Start #1 should be connected to a branch line rather than the main so that they will operate the zone flow switch properly.
- 3. I notice that a hard in provided in the pipe space at the third floor. Where this space is closed at each floor level, I would some that heads are needed at the first and second floors also.
- floors aliv. 4. No heads are shown in the large duct spaces, however ISO approval would indicate that they are not required.
- 5. The duot space at the third floor next to Stair #2 has been
- Lemoacq. 6. Confirm type of thread on base connections with the Portland Fire Dept.
- 7. Collings are UL "Class 25" I don't know whether this is the same as the Class A shown on the shop drawings or not.
- 8. Headrom at the overhead door in the General Trades whop is tight. There is a potential conflict between one head and the door.

congid.

SEMET TELEPHONE

ARCHITECT A. I. A. G. PORTLAND, MANE OUR

Wiley Const., 5/5/75, cont'd.

- 9. Not all ceiling heights are \$1 9'-0" as shown on drawing #4. Some have been lowered due to field conditions and some were originally scheduled lower.
- 10. Drawing al refers to notes on Bldg. B we have not yet received the shop drawings for building 3.
- 11. I have not yet checked all of the piping and head locations for conflicts with beams, water lines, heat & ventilating pipes and ducts, light fixtures, etc. Because the contractor has already started fabricating and installing this piping, has already started fabricating and installing this piping, and a check would not be in time to avoid the necessity of such a check would not be in time to avoid the necessity of reworking some piping. It is of the upmost importance that this subcontractor coordinate his work with the other trades who have been on the job for many months now.

We are retaining the one set submitted for our records. The required minimum number of sets should be sent for approval.

As soon as Building "B" is submitted we will start checking it. I realize that the piping in the Boiler Room must be held pending a decision on the booster pump, however according to Mr. Spaulding of Carco, the remainder of Building "B" will not be affected by this.

Sincerely,

Gregory K. Johnson

co: Carco - Harry Spaulding ISO - David Hale

TELEPHONE SEVEN SEVEN TWO FOUR ZERO SEVEN THREE

6/26/75

ADDRESS DO FRAME BARRAGE ATT

ROUTING SLIP

FROM

DEPARTMENT OF BUILDING AND INSPECTION SERVICES

FIRE DEPARTMENT

PLANNING BOARD

RENEWAL

MI INE WAY

OTHERS

APPROVED of Meller F. P. 15

DISAPPROVED BY REASON OF

(quote section or pertinent ordinance or other governing

SPECIAL COMMENTS

KEEP SECONI COPY AND RETURN ORIGINAL TO BUILDING

WILBUR P. INGALLS, JR. ARCHITECT A. I. A. 45 EXCHANGE STREET, PORTLAND, MAINE OCHIL June 23, 1975

R. Lovell Brown, Director Building & Inspection Services 389 Congress Street Portland, Maine

Re: Portland Regional Vocational Center

Dear Mr. Brown:

We are sending herewith one set of sprinkler and standpipe drawings for Building "K".

These are for your review & comment and/or approval.

Gregory K. Johnson

RECEIVED

JUN 26 1975

DERT. OF BLOG. INSP.
CITY OF PORTLAND

TELEPHONE SEVEN SEVEN TWO FOUR ZERO SEVEN THREE

8. ADDITIONAL DATA. Upon further review by the City's Department of Public Works, and pursuant to the City's recently enacted site plan ordinance, the following additional data is needed by Public Works for their approval:

(a) Bearings, distances and angles of all tangents.

(b.) Equalities for all baseline intersections.

C. Stationing of all PT's and PC's for curves.

Tangent lengths, arc lengths, radiii of curves.

Tie-ins for the baselines of roadways A & B with Allen Avenue centerline or sideline.

Calculations should show the proper distances from property lines to roadways. Also, submit all drainage calculations for review.

Who is responsible for the actual survey work in establishing these

Kindly complete revised final site plan incorporating the above changes and modifications and submit copies to Planning and Public Works Departments as soon as possible. The Planning Roard is scheduled to take this matter up soon as possible. The Planning Board is scheduled to take this matter up at its workshop session of July 9th.

Gerald A. Holtenhoff

cc: Donald E. Megathlin, Jr., Plonning Director
F. Worth Landers, Director of Public Works
Harry E. Cummings, Chairman, Pianning Board
John Chesebro, Highway Design Chief, Public Works
John Kennedy, Public Works
John Murphy, Traffic Eng., Public Works
Joseph Beaulieu, Public Works

CITY OF PORTLAND, MAINE MEMORANDUM

Moriece & Gary, Inc., on Moriece & Gary, Inc.,

DATE: 7-18-74

FROM:

Jack Murphy, City of Portland Traffic Engineer I

SUBJECT: Entrance from Vocational School at Allen Avenue

As per the memo from Gerald A. Holtenhoff to your firm dated July 2, 1974, item 1; I have conferred with the Director of Public Works. We have agreed that you shall design the entrance as follows:

- 1. The entrance roadway shall be eighteen (18') feet wide, the island shall be fourteen (14') feet wide, the exit roadway shall be twenty-six (26') feet wide.
- 2. The nose of the island shall be set back a minimum of two (2') feet or a maximum of three (3') feet from the edge of the pavement on Allen Avenue.
- 3. The island radii shall be seven (7') feet, and the curb radii shall be twenty-four (24') feet.

The above are the conditions set forth for the approval of the Director of Public Works in his official capacity as City Traffic Engineer. This approval is required by ordinance prior to construction.

JOHN L. MURPHY
TRAFFIC ENGINEER I
PUBLIC WORKS DEPARTMENT:

JLM/dmd



MAINE ENGINEERING Services Company Inc

CONSULTING ENGINEERS • 95 HIGH STREET, AUBURN, MAINE 04210
TELEPHONE (207) 784-5513

officers James F. Johnston, Jr. P.E. William J. Fake, P.E.

July 29, 1974

Mr. Wilbur R. Ingalls, Jr., Architect 45 Exchange Street Portland, Maine 04111

Re: Letter to you from Earle S.Smith, City of Portland Bldg. and Inspection Services dated 18 July 1974, MESCO #7402

Dear Bill:

Following is clarification or expansion of answer to Mr. Smiths questions.

COMBUSTION AIR REQUIREMENTS

With future installation of third boiler, total fuel consumed per hour will be 207.9 gallons or 69.3 gal/hour per boiler of #6 fuel oil at 150,000 BTU/gallon. NFFA chapter 31 para. 1406 requires 1 square inch per 14,000 BTU per hour # sq. inches of free opening in louver is

207.9 gallons/hour x 150,000 BTU/gallon = 2227.5 SQ. IN.

or 15.49 square feet required. Louver specified is Carnes #38 88" wide x 72" high with 17.1 square feet free opening.

PRESSURE DROP THRU LOUVER

At 207.9 gph, combustion air required (50% excess air) is 114.2×1.5 lbs. air per gallon of oil or

 $\frac{207.9 \times 114.2 \times 1.5}{60 \text{ min/hour}} = 593.5 \text{ #/min of air}$

593.5~#/Min~x~13.5~cuft/#=8013~cfm~air from chart of louver manufacturer, pressure drop is less than .05 in. H₂O at velocity of 468 feet/min thru louver.

VENTILATION AIR RATE

Ventilation air rate is 7500 cfm. Note that air is blown into boiler room, creating additional air supply for boiler and excess air may go up chimney or out the combustion air louver.

COMPLETE MECHANICAL AND ELECTRICAL ENGINEERING SERVICES

WILBUR R. INGALLS, JR. ARCHITECT A. I. A. 45 EXCHANGE STREET, PORTLAND, MAINE OHIT!

September 11, 1974

Earle S. Smith, Plan Examiner Building And Inspection Services City Hall Congress Street Portland, Maine

Re: Portland Regional Vocational Technical Center Allen Avenue, Portland

Dear Mr. Smith:

In reply to your letter of July 18, 1974, concerning non-compliance items, we have done or will do the following:

- 1. Kitchen area in Building "A" Plaster partitions and ceilings are 1 hour rated assemblies. Doors 105, 106 & 106A are all "B" Label with closers.
- 2. Rated assemblies of column, beams, etc. These are shown fireproofed with one inc. plaster on wire lath on 3/4" chuls. Due to an oversite in the specifications, the plaster for this was specified as gypsum-sand which would give a 1 hour rating. This will be changed (by change order) to gypsum-perlite, which will give a 2 hour rating.
- 3. Foiler Room air See attached letter from Maine Engineering Services on this item.
- 4. Corridor partitions & Doors The plaster partitions are 1 hour rated. There are 28 classroom doors which we will change by change order to "C" Label. All but 2 of these now have closers and we will add the other 2. Glass in these doors will be changed to ‡" wire. The maximum size glass in these doors is 864 sq. in.
- 5. Plumbing See attached letter from Maine Engineering Services on these items.

Because of the time required to obtain prices on the above from the contractor, write the necessary change orders and process them, we would appreciate your approving the project at this time, subject to the above changes. We will send you copies of the change orders as soon as they are processed.

Sincerely yours,
Wilbur R. Ingally, Jr.

encl.

TELEPHONE SEVEN SEVEN TWO FOUR ZERO SEVEN THREE

Wilbur R. Ingalls, Jr., Architect, July 29, 1974

Page 2

THE SANITARY SEWER

The sanitary sewer is specified as cast iron to eight feet outside the building. This will have to be amended to cast iron to the firet manhole and A/C pipe from the manhole to the street.

ALL WALL HYDRANTS AND HOSE BIBBS

All wall hydrents and hose bibbs comply with the code requirements. They have back flow preventors or vacuum breakers as specified on Page 15A12 paragraphs 10 and 11.

THE CATCH BASINS FROM THE AUTO SERVICE AREA

The catch basins from the auto service area have an oil interceptor spec_fied on page 15A24 paragraph 15A44. This is a commercial cast iron interceptor for 150 gpm flow rate.

Very truly yours,

William J. Fake, P.E. MAINE ENGINEERING SERVICES COMPANY, INC.

WJF/bz

172-210 Allen Avenue

Portland Regional Vocational Technical Center

Sept. 13, 1974

Wilbur R. Ingalls, Jr. 45 Exchange Street

Re: letter from Wilbur Ingalls dated 9-11-74 regarding certain requirements for Portland Regional Vocational Technical Center

Dear Mr. Ingalla:

Thank you for your letter of Sept. 11. 1974 correcting the items which we pointed out were in noncomplaince with the BOCA Building Code.

If your contractor now wishes to apply for an excavation and foundation only permit, please contact the Fire Department for their approval, and if you wish to further expedite the permit please send a site plan to the Public Works Department for their approval.

When these two departments notify this office that they have no objection to an excavation and foundation only permit being issued by us we will be glad to comply with your wishes in that regard.

Very truly yours.

Earle 8. Amith PJ an Examinor

ESSam

WILBUR R. INGALLS, JR. ARCHITECT A. I. A. 43 EXCHANGE STREET, PORTLAND, MAINE 04111

August 14, 1974

Building & Inspection Services Att: Mr. Earle S. Smith 389 Congress St. - City Hall Portland, Maine

Dear Earle,

Inclosed is a copy of a letter from Maine Engineering Services, Inc. with the information requested in you letter dated July 18, 1974.

The ballance of the architectural items have been done on the bid documents.

Please call if additional information is required.

Sincerely,

TELEPHONE SEVEN SEVEN TWO FOUR ZERO SEVEN



MAINE ENGINEERING Services Company Inc

CONSULTING ENGINEERS • 95 HIGH STREET, AUBURN, MAINE 04210
TELEPHONE (207) 784-5513 OFFICERS

James F. Johnston, Jr. P.E. William J. Fakg, P.E.

July 29, 1974

Mr. Wilbur R. Ingalls, Fr., Architect 45 Exchange Street Portland, Maine 04111

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Dear Bill:

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Ventilation air rate is 7500 cfm. Note that air is blown into boiler room, creating additional air supply for boiler and excess air may go up chimney or out the combustion air louver.

COMPLETE MECHANICAL AND ELECTRICAL ENGINEERING SERVINSE

Wilbur R. Ingells, Jr., Architect, July 29, 1974

Pago 2

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All wall hydrants and hose bibbs comply with the code requirements. They have back flow preventors or vacuum breakers as specified on Page 15AJ2 paragraphs

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The catch basins from the auto service area have an oil interceptor specified on page 15A24 paragraph 15A44. This is a commercial cast iron interceptor for 150 gpm flow rate.

Very truly yours,

William J. Fake, P.E. MAINE ENGINEERING SERVICES COMPANY, INC.

WJF/br

FINAL SITEPLAN ROSION

You ScHoom.

CITY OF PORTLAND, MAINE

DEPARTMENT OF PUBLIC WORKS ADMINISTRATION (207) 775-5451



F. WORTH LANDERS, P.E. DIRECTOR OF PUBLIC WORKS CITY ENGINEER

GERALD B. BREWSTER
DEPUTY DIRECTOR OF PUBLIC WORKS

WILLIAM W. RIDGEWAY, JR.

ADR MISTRA

July 22, 1974

Mr. Wilbur Ingalls 45 Exchange Street Portland, Maine

Dear Mr. Ingalls:

This letter is a supplement to Jerry Holtenhoff's letter of July 18, 1974. After reviewing the final site plan drawings I find the following items as not meeting the requirements:

1: The luminaires have no designation as to size. The luminaires on the rondways will be Z-1's and those on the walkways will be Z-2's.

2: The northerly roadway has no lighting.

As I understand it there will be night classes in the automotive section. Therefore there will be lights on the northerly roadway. These will be the Z-1 luminaires and will be located at stations: 14.90, 16445, 18400, 19440, 21400 and 22425.

3: The parking lots are not adequately lighted.
There shall be in the northwesterly parking lot, four Z-1 luminaires located in the north, south, east and west corners. These luminaires shall be oriented to give the greatest coverage of the lot.
There shall be in the northeasterly parking lot, a minimum of five Z-1 luminaires located as follows: three along the north side; one in the west corner and one near the center of the lot. Again these luminaires shall be oriented to give the greatest coverage of the lot.

4: The bus loop is inadequately lighted. There shall be Z-1 luminaires located in the island section of the bus loop at the following locations: Station 1+20, 2+80, 3+90, 5+10 and 0+70.

In addition to the above I believe that two Z-2 luminaires should be located in the area between the Horticultural Center and Building "A". One would be directly in front of the Center and the other would be located on the circular path near "A" Building.

William W. Ridgeway Jr

CC: Harry F. Cummings, Chairman, Planning Board
Donald E. Yegathlin, Jr., Planning Director
Gerald A. Holtenhoff, Assistant Planning Director
R. Lovell Brown, Director of Building & Inspection Services
John R. Chesebro, Public Works
Richard Berman, Moricco and Gary

,

B-D B

HEIGHT & AREA COMPUTATIONS

(ARTICLES 2 & 3 & TABLE 6)

USE GROUP CLASSIFICATION	- 4	ACTUAL BLDG. HT. 2	ALLOW. BLDG. HT
MIN TYPE OF CONCE	(202–213)	Story F	eet Story Feet
MIN. TYPE OF CONST. BASED ON HT. & AREA			
	(214–218)	OPEN SPACE 730 (308.1) North	Fast West South
ALLOW, TAB. AREA (TBL	6) 34/20-U S.F.	PERIMETER 720	OPEN Ft. PERIM. 720 Ft.
REDUCTION FOR HT. (30	07.3) S.F.		
REDUCED ALLOW, A	AREA	s.f. % OPEN PERIMETER =	OPEN PERIM./PERIM.
FRONTAGE INCR. (308.1)	51,300 S.F.	% TAB. AREA INCREAS	E = 2(100-2x) /50 2x (% Open Perim 25%)
SPRINKLER INCR. (308.2	S.F.		
TOTAL AREA INCRE	ASES 857600	S.F.	
ALLOW. AREA PER FLOO	R 119,300	S.F. ACTUAL BLDG. ARFA	PER FLOOR 30 000 S.F.
Caution: Max. area may not the tab area (308.3	exceed 3½ times	NOTES: N.R N	ot required ot applicable
1 (1)			
ting. Parameter in the state of	UNLIMITEE	AREA BUILDINGS	
		(309)	
USE GROUP CLASSIFICATI			
Tot owork CENSSIGICALI	(309.1)	EXITWAY FACILITIES	(604)
TYPE OF CONST. REQ'D.	(000.1)	AUTOMATIC SPRINKLE	RS
•	(309.1)		(1204.20)
1		ROOF VENTS	(309.3)
FIRE SEPARATION			(309.3)
(309.2)	North East West Sou		
EXT. WALL RATING (309.2)	Al .	FIRE ACCESS PANELS	
1000.27	North East West Sou	th .	(309.4)

--

MEANS of EGRESS

(ARTICLE 6)

(AR	TICLE 6)	
OCCUPANCY LOAD (608 & TABLE 10)	USE & OCCUPANCY	0.10.
Floor area Sq. 1 /person Occ'y Load	PEOIUPEA.	(603)
BASEMENT () + () = (AIR CONDITIONED _	NO
1ST FLOOR () ; () = (-' BUILDINGS	(605)
	_) TYPES & LOCATION _ OF EXITWAYS	0.18.
2ND FLOOR () + () = ()	(609)
FLOOR () + () = (EXITWAY ACCESS -	(604, 609 & Tab. 11)
FLOOR () + () = (EXITWAY ACCESS	Setter
FLOOR	CORRIDORS	(612)
1 ()=() GRADE EXITWAY PASSAGEWAYS	الدر
CARACITY		(613)
CAPACITY OF EXITWAYS (610 & TABLE 12)	MEANS OF EGRESS — DOORWAYS	Ø.14,
UNITS OF EXIT WIDTH REQ'D.		(614)
	REVOLVING EXITWAY	
DOORSSTAIRS	HORIZONTAL EXITS	(615)
(OAF/ONIT)	TOTAL EXITS	(616)
BASEMENT	EXITWAY RAMPS	NONE
1ST FLOOR		(617)
2ND FLOOR	INTERIOR EXITWAY	0.10
2ND FLOOR		(618)
FLOOR	ACCESS TO ROOF	MD
— FLOOR	SMOKE PROOF	(619)
FLOOR	ENCLOSURES	M 0
FLOOR		(620)
	EXTERIOR EXITWAY	(621)
NUMBER OF EXITWAYS (611)	FIRE ESCAPES	MONE
Prop		(623)
REQ'D SHOWN	SLIDESCAPES	MONE
BASEMENT		(624)
ST FLOOR	EXIT SIGNS	014
	MEAN	(625)
ND FLOOR	MEANS OF EGRESS LIGHTING	O.K.
FLOOR		(626)
FLOOR	ELEVATOR EXITWAY	
FLOOR	MOVING STAIRWAYS	(1611)
FLOOR		(1621)
		11021)
		į.

FIRE PROTECTION

(ARTICLES 9 & 12, TABLE 5)

REQUIRED FIRE GRADING(TABLE 16)	ROOF COVERINGS	(903.5, 928 & 305.2)
(Compliance with Table 5 & Art. 9)		
EXT. WALLS (906) * North East West South	SPECIAL FIRE RESISTIVE REQUIREMENTS	(905)
Bearing 2 </td <td>EXTERIOR OPENING PROTECTIVES</td> <td>(916)</td>	EXTERIOR OPENING PROTECTIVES	(916)
INTERIOR BEARING WALLS 2 BIBRIES	OTHER OPENING PROTECTIVES	(908, 917, 918, 919 & 1614)
FIRE WALLS (907)	FIRE —-	(921)
EXITWAY ENCLOSURES (909) 2 0.14	INTERIOR —	(904, 922, 923 & 925)
OTHER SHAFTS (911)	EXTERIOR TRIM_ RESTRICTIONS	NOTAPP (926)
EXITWAY ACCESS HALLWAYS (910).	ROOF – STRUCTURES	(927)
TENANT SEPARATIONS (910) ON MOH-COM	SPRINKLERS _	(1204)
NON-BEARING PARTITIONS ALL MON-COM	STANDPIPES _	エバタ Da 力,
COLUMNS, GIRDERS, TRUSSES (914)	CO ₂ & DRY CHEMICAL - EXTINGUISHING	(1207)
STRUCTURAL WALL SUPPORTS (912)	SYSTEMS	n
FLOOR CONSTRUCTION (913)	FIRE -	(1209)
ROOF CONSTRUCTION (\$13)	FIRE ALARMS	(1210)
*INDICATES REQUIRED RATING IN HOURS NC indicates non combustible where no rating is required.	CENTRAL STATION	(1211)
	451176	
SPECIAL OCCUPANCY F	41	1. Aboutor 422 ft
☐ Explosion hazard, 402.0 ☐ Volatile flammable, 403.0 ☐ LP gases, 407.0 ☐ Pyroxylin plastics, 408.0 ☐ Flammable film, 409.0 ☐ Combustible fibers, 410.0 ☐ Combustible dusts/grain, 411.0 ☐ Paint spraying, 412.0 ☐ Dry cleaning, 413.0 ☐ Private garages, 414.0 ☐ Public garages, 414.0 ☐ Auto repair shops, 41 ☐ Public assembly, 418.0 ☐ Amusement parks, 42 ☐ Stadiums & grandstal	☐ Drive ☐ Tent ☐ Park 0 ☐ Mob 7.0 ☐ Mot 0.0 & 419.0 ☐ Rad 20.0 ☐ Swi	e-in theater, 422.0 s & temporary structs., 423.0 ing lots, 424.0 ile homes, 425.0 els, 426.0 io & TV towers, 427.0 & 428.0 mming pools, 429.0 en parking structs., 430.0

LIGHT & VENTILATION

(ARTICLE 5)

HABITABLE SPACES	MO APP	OPERATION OF	0.16.
HABITABLE STACES	(501)	MECHANICAL	(505)
	- 403	VENTILATING SYSTEMS	(000)
BASEMENT & CELLARS _	NOT APP		
DAGE NEW CO.	(509)		NOTAPO
	120	ALCOVE ROOMS	(508.1)
BUSINESS & WORKROOMS	(510 & 515.1)		
	(510 & 515.1)	ATTIC SPACES -	NOT ADD
	0, le.	ATTIC STACES	(508.2)
ASSEMBLY AREAS	(511 & 515)		- 422
	(511 & 515)	CRAWL SPACES -	MOTAPP
	NOT-BAP	4	(508.3)
INSTITUTIONAL SPACES	(512 & 515)		
	(512 & 515)	VERTICAL SHAFTS	
	0,16,	V	(516, 911 & 1610)
BATH & TOILET ROOMS	(513)		
	(5.5)	UNPIERCED, BUILDINGS _	
WAVE & EVITWAVE	0,51		(517)
STAIRWAYS & EXITWAYS	(514 & 515.9)	·	
, , , ,	••••	FIRE VENTING -	11 (501)
KITCHENE	(515.8 & TABLE 9A)		(521)
KITCHENS	(515.8 & TABLE 9A)		/1
		OPEN WELLS -	(522)
LIVING & BEDROOMS	NOTHER		(522)
LIVING & BEBROOMS	(507 & TABLE 9A)	•	
Mark St. Comment	MECHANICAL (ARTICLES 1	L 5Y51:M5	
HEATING EQUIPMENT TYPE	(ARTICLES 1	10. 11 & 18)	29 & 1130)
HEATING EQUIPMENT TYPE	(ARTICLES 1	(1100, 1107, 1108, 1115, 11	
HEATING EQUIPMENT TYPE	(ARTICLES 1	(1100, 1107, 1108, 1115, 11	
HEATING EQUIPMENT TYPE	(ARTICLES 1	(1100, 1107, 1108, 1115, 11	RIC
HEATING EQUIPMENT TYPE	(ARTICLES 1	(1100, 1107, 1108, 1115, 115, 115, 115) (1130)	(1500)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS_	(ARTICLES 1	(1100, 1107, 1108, 1115, 11	(1500)
HEATING EQUIPMENT TYPE OF ENERGY: GAS_	(ARTICLES 1	(1130) COMBUSTIC	(1500)
HEATING EQUIPMENT TYPE OF ENERGY: GAS	(ARTICLES 1	(1100, 1107, 1108, 1115, 115, 115, 115) ELECTI	(1500) ON AIR
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS_	(ARTICLES 1	(1115) UNFIRED PRESSURE	(1500)
HEATING EQUIPMENT TYPE OF ENERGY: GAS	(ARTICLES 1	(1115) UNFIRED PRESSURE	(1500) ON AIR
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS CHIMNEYS (1003—	(ARTICLES 1	(1130) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS	(1500) ON AIR
HEATING EQUIPMENT TYPE OF ENERGY: GAS	(ARTICLES 1	(1100, 1107, 1108, 1115, 115, 115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING &	(1500) ON AIR
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS CHIMNEYS (1003—	(ARTICLES 1 PE AND LISTING OIL (1129) BOILER ROOM (1003 & 1011)	(1100, 1107, 1108, 1115, 11; (1100, 1107, 1108, 1115, 11; (1130) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS	(1500) ON AIR
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS CHIMNEYS	(ARTICLES 1 : : : : : : : : : : : : : : : : : : :	(1100, 1107, 1108, 1115, 115, 115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING &	(1500) ON AIR (1115.4) (1130 & 1131)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS CHIMNEYS (1003—	(ARTICLES 1 PE AND LISTING OIL (1129) BOILER ROOM (1003 & 1011)	(1100, 1107, 1108, 1115, 11; (1100, 1107, 1108, 1115, 11; (1130) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS	(1500) ON AIR
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 : : : : : : : : : : : : : : : : : : :	(1100, 1107, 1108, 1115, 115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES	(1500) ON AIR (1115.4) (1130 & 1131)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTING OIL (1129) BOILER ROOM (1003 & 1011) (1013)	(1100, 1107, 1108, 1115, 11; (1100, 1107, 1108, 1115, 11; (1130) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS	(1500) ON AIR (1115.4) (1130 & 1131) (1136)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 : : : : : : : : : : : : : : : : : : :	(1100, 1107, 1108, 1115, 115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES	(1500) ON AIR (1115.4) (1130 & 1131)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTING OIL (1129) BOILER ROOM (1003 & 1011) (1013)	(1100, 1107, 1108, 1115, 1116) COMBUSTICE (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS	(1500) ON AIR (1115.4) (1130 & 1131) (1136)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTINGOIL (1129) BOILER ROOM (1003 & 1011) (1013) (1015) (1018)	(1100, 1107, 1108, 1115, 115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES	(1500) ON AIR (1115.4) (1130 & 1131) (1136) (1137)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTING OIL (1129) BOILER ROOM (1003 & 1011) (1013)	(1100, 1107, 1108, 1115, 1115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS SPECIAL SYSTEMS	(1500) ON AIR (1115.4) (1130 & 1131) (1136)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTINGOIL (1129) BOILER ROOM (1003 & 1011) (1013) (1015) (1018)	(1100, 1107, 1108, 1115, 1115) (1130) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS SPECIAL SYSTEMS PLUMBING & WATER	(1500) ON AIR (1115.4) (1130 & 1131) (1136) (1137)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTING (1129) BOILER ROOM (1003 & 1011) (1013) (1015) (1018)	(1100, 1107, 1108, 1115, 1115) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS SPECIAL SYSTEMS	(1500) ON AIR (1115.4) (1130 & 1131) (1136) (1137) (1114, 1132 & 1139)
HEATING EQUIPMENT TYPE TYPE OF ENERGY: GAS	(ARTICLES 1 PE AND LISTINGOIL (1129) BOILER ROOM (1003 & 1011) (1013) (1015) (1018)	(1100, 1107, 1108, 1115, 1115) (1130) COMBUSTIC (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS SPECIAL SYSTEMS PLUMBING & WATER	(1500) ON AIR (1115.4) (1130 & 1131) (1136) (1137)

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HEIGHT & AREA COMPUTATIONS

(ARTICLES 2 & 3 & TABLE 6)

USE GROUP =/ CLASSIFICATION (202-213)	ACTUAL S 3 Feet BLDG. HT. Story Feet
MIN. TYPE OF CONST. BASED ON HT. & AREA (214–218)	OPEN SPACE 70 30 30 30 30 30 (308.1) North East West South OPEN OPEN 680 Ft. PERIM. 68-0 Ft.
ALLOW. TAB. AREA (TBL.) 34200 S.F. REDUCTION FOR HT. (307.3) S.F. REDUCED ALLOW. AREA S.F. FRONTAGE INCR. (308.1) S/3.00 S.F. SPRINKLER INCR. (308.2) S.F. TOTAL AREA INCREASES S.F. ALLOW. AREA PER FLOOR 1/9, 300 S.F. Caution: Ma. drea may not exceed 3½ times the tab area (308.3).	% OPEN PERIMETER =
UNLIMITED) AREA BUILDINGS
, 1	(309)
A SCHOOL ATION	EXITWAY FACILITIES(604)
USE GROUP CLASSIFICATION (309.1) TYPE OF CONST. REQ'D. (309.1)	AUTOMATIC SPRINKLERS(1204.20)
TYPE OF CONST. REQ'D. (309.1)	ROOF VENTS (309.3)
(309.2) North Last	FIRE ACCESS PANELS (309.4)
	-1
	The second secon

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MEANS of EGRESS

(ARTICLE 6)

OCCUPANCY LOAD (608 & TABLE 10)		0.K.
Floor area Sq. ft./person Occ'y Load	USE & OCCUPANCY REQUIREMENTS	(603)
BASEMENT () + () = ()	AIR CONDITIONED	NO
DASEMENT 1 / 1 / 1	BUILDINGS	(605)
1ST FLOOR () ÷ () = ()	TYPES & LOCATION -	0.15.
2ND FLOOR () ÷ () = ()	OF EXITWAYS	(609)
ZIIO I LOOK	EXITWAY ACCESS	(604, 609 & Tab. 11)
FLOOR () + () = ()	TRAVEL DISTANCE	3. The
FLOOR () ; () = ()	EXITWAY ACCESS — CORRIDORS	(612)
FLOOR () + ()=()	GRADE EXITWAY	0.14,
FLOOR	PASSAGEWAYS	(613)
,	MEANS OF EGRESS	0.14.
CAPACITY OF EXITWAYS (610 & TABLE 12)	DOORWAYS	(614)
UNITS OF EXIT WIDTH REQ'D.	REVOLVING EXITWAY —	(615)
DOORS		,
DOORS STAIRS(CAP/UNIT)	HORIZONTAL EXITS -	(616)
	EXITWAY RAMPS	
BASEMENT		(617)
1ST FLOOR	INTERIOR EXITWAY	0161
2ND FLOOR	STAIRWAYS	(618)
	ACCESS TO ROOF	No
FL,OOR		(619)
FLOOR	SMOKE PROOF ENCLOSURES	(620)
		NO O
FLOOR	EXTERIOR EXITWAY STAIRWAYS	(621)
	FIRE ESCAPES	X D
NUMBER OF EXITWAYS (611)		(623)
REQ'D SHOWN	SLIDESCAPES	ALD.
		(624)
BASEMENT	EXIT SIGNS	0.14,
1ST FLOOR		(625)
	MEANS OF EGRESS LIGHTING	O.K,
2ND FLOOR		(626)
FLOOR	ELEVATOR EXITWAY RESTRICTIONS	
FLOOR	MOVING STAIRWAYS	,
		(1621)
FLOOR		i de la companya de

-4-

FIRE PROTECTION

(ARTICLES 9 & 12, TABLE 5)

REQUIRED FIRE GRADING		ROOF COVERINGS	0-12.
(Compliance with Table 5 & Art. 9)	(TABLE 16)		(903.5, 928 & 305.2)
EXT. WALLS (906)	West South	SPECIAL FIRE RESISTIVE	a.L.
Bearing 2	2 2	REQUIREMENTS	(905)
Non-bearing O O	0 0	EXTERIOR OPENING PROTECTIVES	(916)
INTERIOR BEARING WALLS	2 8"BRICK	OTHER OPENING	014
FIRE WALLS (907)			(908, 917, 918, 919 & 1614)
FIRE WALLS (907)	2 nove	FIRE	(921)
FIRE DIVISIONS (907)	. Le more	STOPPING	رعاری
EXITWAY ENCLOSURES (909)	2	INTERIOR FINISH	(904, 922, 923 & 925)
OTHER SHAFTS (911)	2	EXTERIOR TRIM	0.K.
EXITWAY ACCESS HALLWAYS (91)		ROOF	HONE
EXITWAT ACCESS HALLWATS (51)		STRUCTURES	(927)
TENANT SEPARATIONS (910)	OK NON-COM	SPRINKLERS	1204)
NON-BEARING PARTITIONS	OIL NON-COM	STANDPIPES	FITS DEPS
COLUMNS, GIRDERS, TRUSSES (91	14) 1/2 Perter		(1205)
STRUCTURAL WALL SUPPORTS (9		CO ₂ & DRY CHEMICAL EXTINGUISHING	(1207)
		SYSTEMS	
FLOOR CONSTRUCTION (913) .	· · [1]	FIRE DETECTION	(1209)
ROOF CONSTRUCTION (915)	٠. معد	FIRE ALARMS	
*INDICATES REQUIRED RAT	ING IN HOURS	FIRE ALARMS	(1210)
NC indicates non combustible	where no rating is required.	CENTRAL	(1211)
		STATION	(1211)
	SPECIAL OCCUPANCY REC	DURFMENTS	
	(ARTICLE 4)		
Explosion hazard, 402.0	☐ Dry cleaning, 413.0☐ Private garages, 414.0	Tents & t	heater, 422.0 emporary structs., 423.0
□ Volatile flammable, 403.0□ LP gases, 407.0	Public garages, 415.0	Parking le	ots, 424.0
Pyroxylin plastics, 408.0	Service stations, 416.0Auto repair shops, 417.0		omes, 425.0 26.0
☐ Flammable film, 409.0 ☐ Combustible fibers, 410.0	Public assembly, 418.0 &	419.0 🔲 Radio &	TV towers, 427.0 & 428.0
Combustible dusts/grain, 411.0	Amusement parks, 420.0Stadiums & grandstands,		ng pools, 429.0 King structs., 430.0
☐ Paint spraying, 412.0	Stadiums & grandstands,	C open per	g on nount looks

LIGHT & VENTILATION

(ARTICLE 5)

HABITABLE SPACES	メロア Aトア·	OPERATION OF MECHANICAL	(505)
BASEMENT & CELLARS	MOT APP.	VENTILATING SYSTEMS	MOTHER
BUSINESS & WORKROOMS	NOTAPO (510 & 515.1)	ALCOVE ROOMS	(508.1) NUT-AP
ASSEMBLY AREAS	(511 & 515)	ATTIC SPACES -	(508.2) HIT APP
INSTITUTIONAL SPACES _	(512 & 515)	CRAWL SPACES -	(508.3)
BATH & TOILET ROOMS	(513)	VERTICAL SHAFTS	(516, 911 & 1610)-
STAIRWAYS & EXITWAYS	(514 & 515.9)	UNPIERCED BUILDINGS	(517)
KITCHENS NOT BOST	3 Cubin f fills	FIRE VENTING	(521)
LIVING & BEDROOMS	(507 & TABLE 9A)	OPEN WELLS	(522)
HEATING EQUIPMENT TYPE	AND LISTING	(1100, 1107, 1108, 1115, 1	(29 & 1130)
TYPE OF ENERGY: GAS	OIL	ELECT	
	(1129)	(1136)	'RIC(1500)
CHIMNEYS	BOILER ROOM	(1136) COMBUST! (1115) UNFIRED PRESSURE	(1500)
CHIMNEYS(1003-10	BOILER ROOM	(1136) COMBUSTI (1115) UNFIRED PRESSURE VESSELS OIL BURNING &	(1500) ON AIR
(1003–10	BOILER ROOM	(1136) COMBUSTI (1115) UNFIRED PRESSURE VESSELS	(1500) ON AIR(1115.4)
VENTS FIREPLACES INCINERATORS	BOILER ROOM	(1136) COMBUSTI (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES	(1500) ON AIR
VENTS FIREPLACES	(1003 & 1011)	(1136) COMBUSTI (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS	(1500) ON AIR (1115.4) (1126) (1130 & 1131)
VENTS FIREPLACES INCINERATORS DUCT AND	(1003 & 1011) (1013) (1015)	COMBUSTI (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS SPECIAL SYSTEMS	(1500) ON AIR (1115.4) (1126) (1130 & 1131) (1136)
VENTS FIREPLACES INCINERATORS DUCT AND PIPE SHAFTS	(1003 & 1011) (1013) (1015)	COMBUSTI (1115) UNFIRED PRESSURE VESSELS OIL BURNING & FUEL TANKS REFUSE CHUTES REFUSE VAULTS	(11500) ON AIR (1115.4) (1126) (1130 & 1131) (1136) (1137)

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Allen Avenue Vocational School

July 18. 1974

Wilbur R. Ingalls. Jr. 45 Exchange Street

A check of the above plans against the requirements of the BXX Building Code reveals several items which appear to be in popularity and the code reveals several items which appear to be in popularity. A check of the above plans against the requirements of the base buridge therewith. Dear Mr. Ingallat

Please bear in mind this is not a complete check because we have not heard Please bear in mind this is not a complete check because we have not nearly from the Fire Department or the Public Works, but we thought the following items might help you in preparing for bids.

The kitchen area in Building h is required to be partitioned off with The Kitchen area in Building h is required to be Faithtiomed off with 3/4 hour fire resistant material with fire doors in the openings leading thereto. (See Sec.419.4)

Please classify rated assemblies of columns. Girder or trusses along with structural wall supports showing a minimum of ly hour fire rating.

Please submit data (computations) showing boiler from will receive enough air for combustion also the rate of exhausted air. See lette from making.

All corridors partitions (exitway access corridors) are required to be class C

3/4 hour fire resistant and the classroom doors are required to be class C 3/4 hour zire resistant and the chassroom doors are required to be Class C fire doors with closers. (See Sec. 917.21) Please by guided by Sec. 919.4 as to limit of wireglass punels.

The sanitary sewer is required to be cast iron from the building to the first manhole in each instance where it leaves the building, then from manholes it is required to the city sewer. manholes it is permissible to use RC or transite to the City sewer.

All wall hydrants and hose bibbs must have back flow preventors or

What provisions are made for oil and gas catch basins from auto mechanics vacuum valves installed on them.

Mechanical and electrical check not included. and service area?

very truly yours.

Earls &. Smith, Plan Examiner

172-210 Allen Avenua Re: Vocational School

August 22, 1974

Wilbur R. Ingalis, Jr. AIA 45 Exchange Street

Mear Mr. Ingallat

The electrical riser diagrams, wheat E-11 is numbered 3.4, 13.16.18.19 and 23 to the transformers without an over current device on the secondary side of the transformer to conform with N.E.C. Art.#240-15. titled Overcurrent Protection. This article states that "Overcurrent devices shall be located at the point where the conductor raceives its supply." In this case the supply is the transformer and in no way will any of the exceptions apply.

Very Cruly Yourgs

Earle S. Smith Flan Examiner

850 in

P.S. If you have any questions concerning the above please contact Mr. Richard Libby, Electricals. Inspector for the City of Portland.

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current devices on the secondary side of the transformer to conform - Overcurant protect " Overeu shall be located at the point receives its supply." Duth case the supply is the transformer no way can any of the exceptions

CITY OF PORTLAND, MAINE FIRE DEPARTMENT



JOSEPH R. CREMO

FIRE PREVENTION BUREAU 380 CONGRESS STREET PORTLAND, MAINE

September 18, 1974

Re: Allen Avenue Vocational School

The permit to proceed with the construction of the proposed Vocational Training School on Allen Avenue is approved by this office with the understanding that the stipulations in Captain Herbert P. Miller's letter to Mr. Wilbur Ingalls dated July 23, 1974 be included. A copy of that letter is attached for your convenience. convenience.

Vincent L. Marcisso
Vincent L. Marcisso
Lieutenant - Fire Prevention Bureau

Enclosure

RECEIVED 227 1 3 1974

DEPT. U. BLOG MSP. CITY OF PORTLAND

23 July 1974

Mr. Wilbur Ingalls 45 Exchange Street Portland, Maine

Re: Proposed Vocational Training School - Allen Avenuc.

A review of the plans of the proposed locational Training School finds the following requirements missing on the plans:

- 2" conduit pipe feeding from the power pole, 25-E, to the boiler room. This is for the alarm cables to be run in to the building.
- 2. Two master alarm boxes are needed instead of one. One in each building.
- 3. Separate alarm systems are needed for each building, to be tied into separate master boxes. These systems are to have zoned indicator panels.
- An automatic alarm system covering the entire basement, collar, sub cellar if any, all hallways, corriders, class rooms and hazardous areas with heat and or smoke detectors tied in with the manual pull stations and sprinklor system will be required.

Respectfully,

Herbert P. Miller, Captain Fire Prevention Bureau

HPM/X

RECEIVED SEP 1 8 1974 DEPT. OF BLDG INSP. CITY OF PORTLAND

23 July 1974

Mr. Wilbur Ingalls 45 Exchange Street Portland, Maine

Re: Proposed Vocational Training School - Allen Avenue.

Dear Sir:

A review of the plans of the proposed Vocational Training School finds the following requirements missing on the plans:

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Respectfully,

Herbert P. Miller, Captain Fire Prevention Bureau

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CITY OF PORTLAND, MAINE

PLANNING DEPARTMENT



ONALD E. MEGATHLIN, JR

July 18, 1974

Mr. Wilbur Ingalls 45 Exchange Street Portland, Maine

Dear Mr. Ingails:

Last week the Planning and Public Works Departments received revised final site plan drawings which meets many of the requirements of the Public Works and Planning Departments. Several of the requirements by Public Works - notably those dealing with drainage and roadway construction details and widths - have not been satisfied in the revised site plan drawings nor has all of the required data been submitted. In addition, the following Planning Department requirements have not been met:

- Frovision of two 20 foot roadways and a median strip of 21 feet in width, along the entrance boulevard, with final curb cut design subject to approval by the Director of Public Works. As the enclosed memo shows, however, the Public Works Director is requiring a different curb cut design, which is legally binding and is therefore the one that should be adhered to.
- 2. Provision of at least 245 parking spaces.
- Delincation of the location, number, and dimensions of all proposed loading berths.

in view of the fact, however, that many - though not all - of the In view of the fact, however, that many - though not all - of the requirements have been met, and in view of the need to expedite this project, the Planning Board at its meeting of July 9, 1974, approved the final site plan, contingent upon all legal requirements for site plan approval and building permit issuance having been met, as set forth in the City's Site Plan Ordinance, a copy of which is cuclosed. In accordance with that ordinance, a building permit can be issued within seven days after receipt of the remaining applicable components and accompanying statements - i.e. further plan changes and plans and accompanying statements - i.e., further plan changes and additional data as stipulated by the Public Morks and Planning Departments, pursuant to the City's Site Plan Ordinance.

Mr. Wilbur Ingalls July 18, 1974 Page 2

attached marked copy of memo for these remaining items to be submitted or complied with. Also, pursuant to the site plan ordinance, it will be necessary for four copies of any additional drawings and statements to be submitted to the Building and Inspection Services Department as part of the final City review process that's required and which is now underway.

Gerald A. Holtenhoff) Assistant Planning Director

GAH/jk Enclosures

cc: Harry E. Cummings, Chairman, Planning Board
Donald E. Megathlin, Jr., Planning Director
R. Lovell Brown, Director of Building & Inspection Services John Chesebro, Public Works John Murphy, Public Works Richard Berman, Moriece and Cary