

ADDENDUM NO.: 1  
 DATE OF CMR ADDENDUM: 11/28/12

**Notice of Construction Manager-at-Risk (CMR)  
 Addendum  
 on behalf of the  
 CT Department of Construction Services (CT DCS)**

<b>Project Name:</b>	JM Wright Tech High School
<b>Project Location:</b>	Stamford CT
<b>Project Description:</b>	Additions & Renovations
<b>Project Construction Budget:</b>	50,000,000.00
<b>CT DCS Project Number:</b>	BI-RT-842-CMR

The Construction Manager-at-Risk (CMR) is issuing a **Notice of CMR Addendum** for this State of CT Department of Construction Services (CT DCS) Project. Specific Addendum Information is available as noted below. If you have any questions, please contact the CMR as noted below.

**CMR Information:**

<b>CMR Firm:</b>	KBE Building Corp
<b>Address:</b>	30 Batterson Park Rd
<b>Contact Name:</b>	Ryan Bentz
<b>Contact Phone Number:</b>	Office: 860-284-7467 Cell: 860-250-1552
<b>Contact Email Address:</b>	rbentz@comcast.net

**Addendum Information is available as follows:**

<b>CMR Website and/or FTP Site:</b>	Address: ftp.kbebuilding.com User: JMWrightHS Pass: 6w6dwi
<b>Printing Company:</b>	BL Graphics 203-630-2671

**Note to CMR Firm:** This Form must be completed and emailed to the DCS personnel listed below. DCS will post the form to the State Contracting Portal as "Addendum No. #". **Delete this "Note" prior to emailing the document to DCS.**

- Copies:  DCS Project Manager ([insert email address](#))  DCS Process Management ([randy.daigle@ct.gov](mailto:randy.daigle@ct.gov))  
 DCS Process Management ([peter.babey@ct.gov](mailto:peter.babey@ct.gov))  DCS Website Management ([rebecca.cutler@ct.gov](mailto:rebecca.cutler@ct.gov))



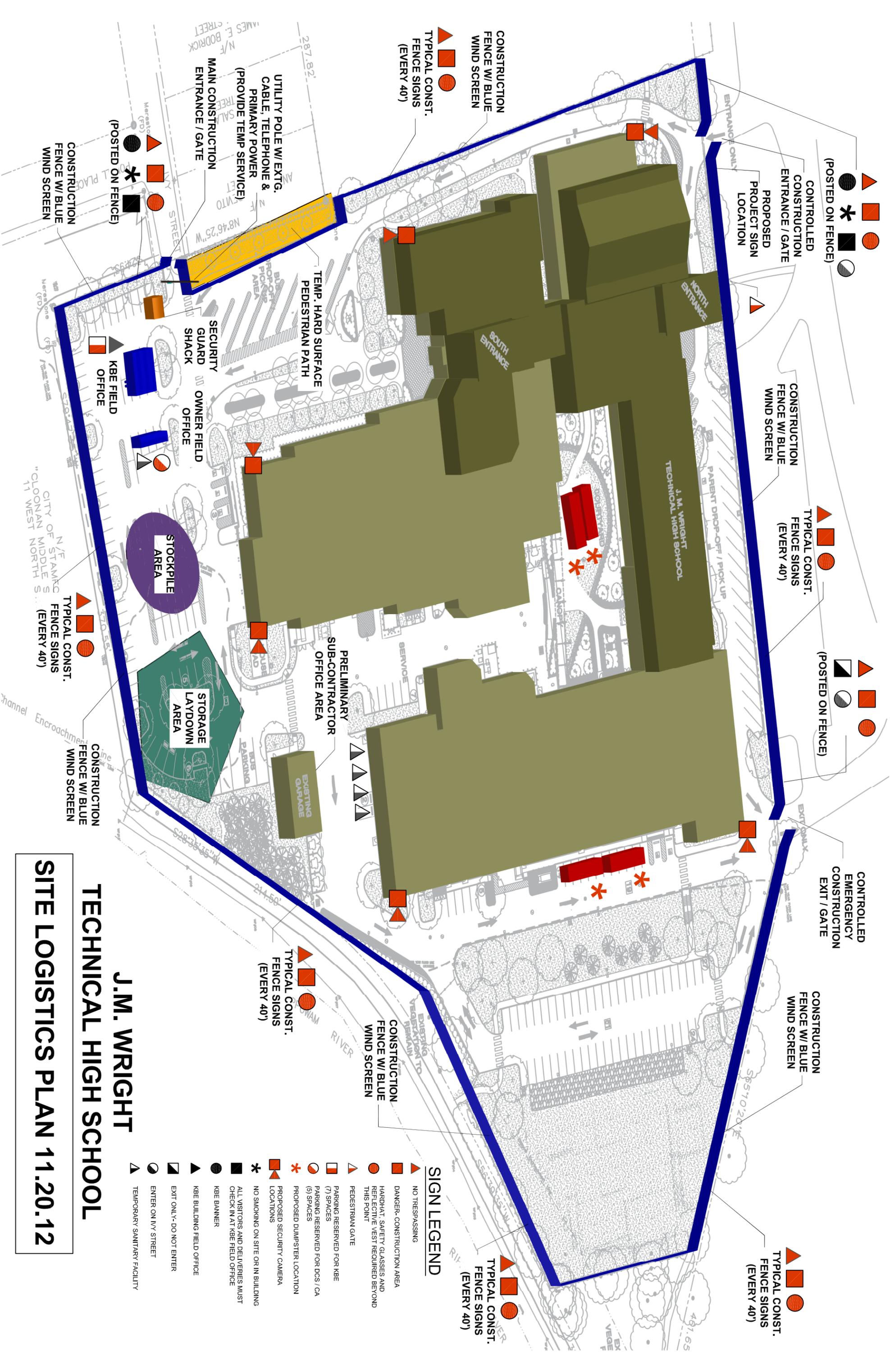
**JM Wright Technical High School  
Stamford, CT  
State Project # BI-RT-842-CMR**

**ADDENDUM #1  
November 28, 2012**

**Contents of Addendum #1**

- 1) SITE & TEMPORARY FACILITIES BID DATE MOVED to December 5, 2012
- 2) Site Logistics Plan dated November 20,2012 attached
- 3) Temporary Heat Plan dated November 20, 2012 attached
- 4) City of Stamford Noise Ordinance attached
- 5) JM Wright Project Directions
- 6) Material Lead Times Form
- 7) Adjustments to Scope of Work for SITE & TEMPORARY FACILITIES
  - a. Item C under Site Security/Temporary Facilities and Protection
    - i. Adjust the following “furnish and install asphalt sidewalk in lieu of compacted gravel. Remove for new site improvements when complete.”
  - b. Item F under Site Security/Temporary Facilities and Protection
    - i. Add the following “Snow to be removed from site after snow has been stockpiled from weather event”
  - c. Item G under Site Security/Temporary Facilities and Protection
    - i. Eliminate the following “ground thaw unit for one season”
  - d. Item N under Site security/Temporary Facilities and Protection
    - i. Eliminate the following “allowance for electrical connections to temporary heaters. Gas hook-ups is still INCLUDED.”
    - ii. Eliminate the following “pad prep for heat units”
  - e. Item T under Site Security/Temporary Facilities and Protection
    - i. Add the following “Also provide temporary power to Security Guard Shack
  - f. Item V under Site Security/Temporary Facilities and Protection
    - i. Remove cleaning and cleaning supplies for CM field office. Cleaning and cleaning supplies for Owner field office is still INCLUDED

END OF ADDENDUM #1



- ▲ (POSTED ON FENCE)
- (POSTED ON FENCE)
- (POSTED ON FENCE)
- ✱ (POSTED ON FENCE)
- ◐ (POSTED ON FENCE)

CONTROLLED  
CONSTRUCTION  
ENTRANCE / GATE  
PROPOSED  
PROJECT SIGN  
LOCATION

CONSTRUCTION  
FENCE W/ BLUE  
WIND SCREEN

TYPICAL CONST.  
FENCE SIGNS  
(EVERY 40')

- ▲ (POSTED ON FENCE)
- (POSTED ON FENCE)
- (POSTED ON FENCE)
- ◐ (POSTED ON FENCE)

CONTROLLED  
EMERGENCY  
CONSTRUCTION  
EXIT / GATE

CONSTRUCTION  
FENCE W/ BLUE  
WIND SCREEN

TYPICAL CONST.  
FENCE SIGNS  
(EVERY 40')

CONSTRUCTION  
FENCE W/ BLUE  
WIND SCREEN

TYPICAL CONST.  
FENCE SIGNS  
(EVERY 40')

UTILITY POLE W/ EXTG.  
CABLE, TELEPHONE &  
PRIMARY POWER  
(PROVIDE TEMP SERVICE)

MAIN CONSTRUCTION  
ENTRANCE / GATE

CONSTRUCTION  
FENCE W/ BLUE  
WIND SCREEN

(POSTED ON FENCE)

TEMP. HARD SURFACE  
PEDESTRIAN PATH

SECURITY  
GUARD  
SHACK

OWNER FIELD  
OFFICE

KBE FIELD  
OFFICE

STOCKPILE  
AREA

STORAGE  
LAYDOWN  
AREA

PRELIMINARY  
SUB-CONTRACTOR  
OFFICE AREA

EXISTING  
GARAGE

TYPICAL CONST.  
FENCE SIGNS  
(EVERY 40')

CONSTRUCTION  
FENCE W/ BLUE  
WIND SCREEN

CONSTRUCTION  
FENCE W/ BLUE  
WIND SCREEN

TYPICAL CONST.  
FENCE SIGNS  
(EVERY 40')

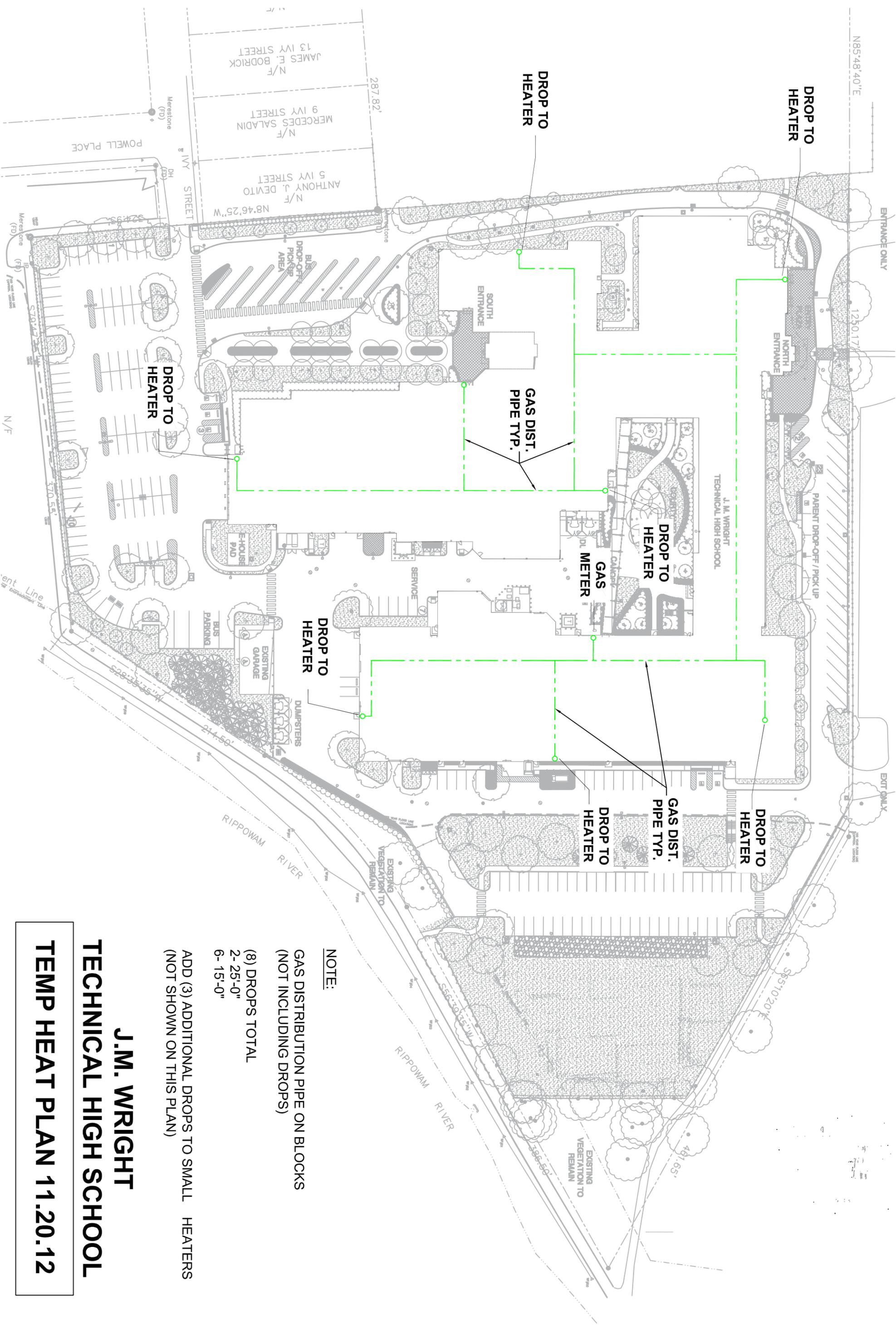
TYPICAL CONST.  
FENCE SIGNS  
(EVERY 40')

### SIGN LEGEND

- ▲ NO TRESPASSING
- DANGER- CONSTRUCTION AREA
- HARDHAT, SAFETY GLASSES AND REFLECTIVE VEST REQUIRED BEYOND THIS POINT
- ▲ PEDESTRIAN GATE
- PARKING RESERVED FOR KBE (7) SPACES
- PARKING RESERVED FOR DCS / CA (6) SPACES
- ✱ PROPOSED DUMPMSTER LOCATION
- ✱ PROPOSED SECURITY CAMERA LOCATIONS
- NO SMOKING ON SITE OR IN BUILDING
- ALL VISITORS AND DELIVERIES MUST CHECK IN AT KBE FIELD OFFICE
- KBE BANNER
- ▲ KBE BUILDING FIELD OFFICE
- ◐ EXIT ONLY- DO NOT ENTER
- ◑ ENTER ON IYV STREET
- ▲ TEMPORARY SANITARY FACILITY

# J.M. WRIGHT TECHNICAL HIGH SCHOOL

## SITE LOGISTICS PLAN 11.20.12



**NOTE:**

GAS DISTRIBUTION PIPE ON BLOCKS  
(NOT INCLUDING DROPS)

- (8) DROPS TOTAL
- 2- 25'-0"
- 6- 15'-0"

ADD (3) ADDITIONAL DROPS TO SMALL HEATERS  
(NOT SHOWN ON THIS PLAN)

**J.M. WRIGHT  
TECHNICAL HIGH SCHOOL  
TEMP HEAT PLAN 11.20.12**

## CHAPTER 164. - NOISE <sup>[638]</sup> 1

<sup>(638)</sup> 1History—Adopted by the Board of Representatives of the City of Stamford 4-1-85 as Ord. No. 548. Amendments noted where applicable. Approved by State Deputy Commissioner John W. Anderson pursuant to Section 22a-73(c) of the Connecticut General Statutes 2/5/88.

### GENERAL REFERENCES

Alarm systems—See Ch. 70.

Amusements—See Ch. 74.

Boats—See Ch. 84.

Dogs and other animals—See Ch. 111.

[Sec. 164-1. - Title.](#)

[Sec. 164-2. - Purpose.](#)

[Sec. 164-3. - Definitions. 1.1](#)

[Sec. 164-4. - Noise level measurement procedures.](#)

[Sec. 164-5. - Noise levels.](#)

[Sec. 164-6. - Prohibited noise activities.](#)

[Sec. 164-7. - Motor vehicle noise.](#)

[Sec. 164-8. - Recreational vehicle noise.](#)

[Sec. 164-9. - Inspections.](#)

[Sec. 164-10. - Violations and penalties. 2](#)

[Sec. 164-11. - Variances; appeals; administration.](#)

[Sec. 164-12. - Effect on other regulations.](#)

[Sec. 164-13. - Enforcement.](#)

### **Sec. 164-1. - Title.**

This chapter shall be known as the "City of Stamford Noise Control Ordinance."

### **Sec. 164-2. - Purpose.**

It is recognized that people have a right to and should be ensured an environment free from excessive sound and vibration that may jeopardize their health or safety or welfare or degrade the quality of life. This chapter is enacted to protect, preserve and promote the health, safety, welfare and quality of life for the citizens of Stamford through the reduction, control and prevention of noise.

### **Sec. 164-3. - Definitions.** <sup>[639]</sup>1.1

The following definitions shall apply in the interpretation and enforcement of this chapter:

*Ambient noise or background noise.* Noise of a measurable intensity which exists at a point as a result

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CHAPTER 164. - NOISE

of a combination of many distant sources individually indistinguishable. In statistical terms, it is the level which is exceeded ninety percent (90%) of the time (L90) in which the measurement is taken.

*Board of Representatives.* The Board of Representatives of the City of Stamford.

*Commercial zone.* All commercial districts and business districts, including CCS, CN, CL, CD, CG, CI and CNN, as defined in the zoning regulations of the City of Stamford, and all uses associated therewith permitted either as a right or as a special use. "Commercial" shall also include BD and BC design zones.

*Construction.* Any site preparation, assembly, erection, substantial repair, alteration or similar action, but excluding demolition, for or of public or private rights-of-way, structures, utilities or similar property.

*Construction equipment.* Any equipment or device operated by fuel or electric power or air or hydraulic pressure, used in construction or demolition work.

*Daytime hours.* The hours between 8:00 a.m. and 8:00 p.m., Monday through Saturday, and the hours of 10:00 a.m. through 5:00 p.m., Sundays and federal and state holidays.

*Decibel.* A logarithmic unit of measure used in measuring magnitudes of sound. The symbol is dB. SPL (sound-pressure level) is defined as:

$$\text{SPL} = 20 \log P \text{ in dB} / P_0$$

Where  $P_0 = 0.0002$  microbars

*Demolition.* Any dismantling, intentional destruction or removal of structures, utilities, public or private right-of-way surfaces or similar property.

*Director of health.* The Director of Health of the City of Stamford.

*Domestic power equipment.* Power saws, drills, grinders, lawn and garden tools and other domestic power equipment intended for use in residential areas by a home-owner.

*Emergency.* Any occurrence or set of circumstances involving actual or imminent physical trauma or property damage which demands immediate action.

*Emergency vehicle.* Any motor vehicle authorized by the City of Stamford to have sound-warning devices such as sirens and bells which can lawfully be used when responding to an emergency.

*Emergency work.* Work made necessary to restore property to a safe condition following an emergency, or work required to protect persons or property from exposure to imminent danger.

*Health commission.* The Health Commission of the City of Stamford.

*Impulse noise.* Sound of short duration, usually less than one (1) second, with an abrupt onset and rapid decay.

*Industrial zone.* All industrial districts as defined by the zoning regulations of the City of Stamford, including but not limited to ML, MD, MG and IPD Districts.

*Motor vehicle.* Defined as per Section 14-1 (26) of the Connecticut General Statutes.

*Muffler.* A device for abating sounds such as those produced by escaping gases.

*Nighttime hours.* Nighttime hours begin at 8:01 p.m. on Monday through Saturday, and begin at 5:01 p.m. on Sunday and Federal holidays. Nighttime hours end at 7:59 a.m. on Monday through Saturday and end at 9:59 a.m. on Sundays and Federal holidays.

*Noise.* Any sound, the intensity of which exceeds the standards set forth in § 164-5B of this chapter.

*Noise level.* The sound-pressure level in decibels as measured with a sound-level meter using the A-weighting network. The level so read is designated dB(A) or dBA.

*Person.* Any individual, firm, partnership, association, syndicate, company, trust, corporation, municipality, agency or political or administrative subdivision of the state or other legal entity of any kind.

*Premises.* Any building, structure, land or portion thereof, including all appurtenances, and includes yards, lots, courts, inner yards and real properties without buildings or improvements, owned or controlled by a person. The emitter's "premises" includes contiguous publicly dedicated street and highway rights-of-way, all road rights-of-way and waters of the state.

*Property line.* That real or imaginary line along the ground surface and its vertical extension which separates real property owned or controlled by any person from contiguous real property owned or controlled by another person, and separates real property from the public right-of-way.

*Public right-of-way.* Any street, avenue, boulevard, highway, sidewalk, alley, park, waterway, railroad or similar place which is owned or controlled by a governmental entity.

*Recreational vehicle.* Any internal-combustion-engine-powered vehicle which is being used for recreational purposes.

*Residential zone.* All city-owned property used for recreational or educational purposes and all residential districts (RA2, RA1, R20, R10, R7½, R5, R2, RMF) and any commercial district when used for residential purposes, as defined in the zoning regulations of the City of Stamford, and all uses permitted therewith either as a right or as a special use.

*Sound.* A transmission of energy through solid, liquid or gaseous media in the form of vibrations which constitute alterations in pressure or position of the particles in the medium and which, in air, evoke physiological sensations, including but not limited to an auditory response when impinging on the ear.

*Sound-level meter.* An instrument used to take sound-level measurements and which should conform, as a minimum, to the operational specifications of the American National Standards Institute for Sound Level Meters, S1.4—1971 (Type S2A).

*Sound-pressure level.* Twenty (20) times the logarithm to the base 10 of the ratio of the pressure of a sound to the reference pressure of twenty (20) micronewtons per square meter ( $20 \times 10^{-6}$  newtons/meter<sup>2</sup>) and which is expressed in decibels (dB).

#### **Sec. 164-4. - Noise level measurement procedures.**

For the purpose of determining noise levels as set forth in this chapter, the following guidelines shall be applicable:

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- A. All personnel conducting sound measurements shall be trained in the current techniques and principles of sound-measuring equipment and instrumentation.
- B. Instruments used to determine sound-level measurements shall conform to the sound-level meters as defined by this chapter.
- C. The general steps listed below shall be followed when preparing to take sound-level measurements:
  - (1) The instrument manufacturer's specific instructions for the preparation and use of the instrument shall be followed.
  - (2) The sound-level meter shall be calibrated before and after each set of measurements.
  - (3) When measurements are taken out of doors, a wind screen shall be placed over the microphone of the sound-level meter as per the manufacturer's instructions.
  - (4) The sound-level meter shall be placed at an angle to the sound source as specified by the manufacturer's instructions and at least four (4) feet above the ground. It shall be so placed as not to be interfered with by individuals conducting the measurements.
  - (5) Measurements shall be taken at a point that is located about one (1) foot beyond the boundary of the emitter's premises within the receptor's premises. The emitter's premises includes his/her individual unit of land or ground of contiguous parcels under the same ownership, as indicated by public land records.
- D. The recommended practices for determining statistical noise levels shall be those as outlined in the document entitled "Connecticut Noise Survey Data Form #101."

**Sec. 164-5. - Noise levels.**

- A. It shall be unlawful for any person to emit or cause to be emitted any noise beyond the boundaries of his/her premises in excess of the noise levels established in these regulations.
- B. Noise level standards.
  - (1) No person in a residential zone shall emit noise beyond the boundaries of his/her premises exceeding the levels stated herein and applicable to adjacent residential, commercial or industrial zones:

*Receptor's Zone*

Emitter's Zone	Industrial	Commercial	Residential/Day	Residential/Night
Residential	62 dBA	55 dBA	55 dBA	45 dBA

- (2) No person in a commercial zone shall emit noise beyond the boundary of his/her premises exceeding the levels stated herein and applicable to adjacent residential, commercial or industrial zones:

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*Receptor's Zone*

Emitter's Zone	Industrial	Commercial	Residential/Day	Residential/Night
Commercial	62 dBA	62 dBA	55 dBA	45 dBA

(3) No person in an industrial zone shall emit noise beyond the boundary of his/her premises exceeding the levels stated herein and applicable to adjacent residential, commercial or industrial zones:

*Receptor's Zone*

Emitter's Zone	Industrial	Commercial	Residential/Day	Residential/Night
Industrial	70 dBA	66 dBA	61 dBA	51 dBA

C. High background noise levels and impulse noise.

(1) In those individual cases where the background noise levels caused by sources not subject to these regulations exceed the standards contained herein, a source shall be considered to cause excessive noise if the noise emitted by such source exceeds the background noise levels by five (5) decibels, provided that no source subject to the provisions of this chapter shall emit noise in excess of eighty (80) decibels at any time, and provided that this section does not decrease the permissible levels of other sections of this chapter.

(2) No person shall cause or allow the emission of impulse noise in excess of eighty (80) decibels peak sound-pressure level during the nighttime to any residential noise zone.

(3) No person shall cause or allow the emission of impulse noise in excess of one hundred (100) decibels peak sound-pressure level at any time in any zone.

D. Exclusions. These levels shall not apply to noise emitted by or related to:

(1) Natural phenomena.

(2) Any bell or chime from any building clock, school or church.

(3) Any siren, whistle or bell lawfully used by emergency vehicles or any other alarm systems used in an emergency situation; provided, however, that burglar alarms not terminating within fifteen (15) minutes after being activated shall be unlawful.

(4) Warning devices required by Occupational Safety and Health Administration or other state or federal safety regulations.

(5) Farming equipment or farming activity.

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E. Exemptions and special conditions. The following shall be exempt from these regulations, subject to special conditions as may be spelled out:

- (1) Noise generated by construction activities during daytime hours, it being the express intention of this provision to prohibit the use of construction equipment and machinery before the hour of 7:00 a.m. on Monday through Friday, 8:00 a.m. Saturday and 10:00 a.m. Sunday.
- (2) Noise created as a result of or relating to an emergency.
- (3) Noise from domestic power equipment, such as but not limited to power saws, sanders, grinders, lawn and garden tools or similar devices operated during daytime hours.
- (4) Noise from snow removal equipment.
- (5) Noise from demolition activities conducted during daytime hours, it being the express intention of this provision to prohibit the use of equipment and machinery used in demolition work before the hour of 7:00 a.m. on Monday through Friday, 8:00 a.m. Saturday and 10:00 a.m. Sunday; provided that when considered emergency work, demolition shall be exempt at all times from the noise levels set in this regulation.
- (6) Noise created by any aircraft flight operations, which are specifically preempted by the Federal Aviation Administration.
- (7) Noise created by any recreational activities which are permitted by law and for which a license or permit has been granted by the city, including but not limited to parades, sporting events, concerts and firework displays.
- (8) Noise created by blasting other than that conducted in connection with construction activities, provided that the blasting is conducted between 8:00 a.m. and 5:00 p.m., local time, at specified hours previously announced to the local public, or provided that a permit for such blasting has been obtained from local authorities.
- (9) Noise created by refuse and solid waste collection, provided that the activity is conducted during daytime hours.
- (10) Sound created by any mobile source of noise. Mobile sources of noise shall include but are not limited to such sources as aircraft, automobiles, trucks and boats. However, notwithstanding this subsection, motor vehicles shall be subject to the standards set forth in § 164-7 hereof.

**Sec. 164-6. - Prohibited noise activities.**

The following activities are prohibited:

- A. Vehicle horns. No person shall at any time sound any horn or other audible signal device of a motor vehicle unless it is necessary as a warning to prevent or avoid a traffic accident.
- B. Truck idling. No person shall operate an engine or any standing motor vehicle with a weight in excess of ten thousand (10,000) pounds, manufacturer's gross vehicle weight (GVW), for a period in excess of ten (10) minutes when such vehicle is parked on a residential premise or on a city street next to a residential premise.
- C. Exhaust discharge. No person shall discharge into the ambient air the blowdown of any

steam vent or the exhaust of any stationary internal-combustion engine or air compressor equipment unless such discharge is through a muffler as defined by § 164-3 of this chapter or through an apparatus providing equal noise reduction.

**Sec. 164-7. - Motor vehicle noise.**

A. All motor vehicles operated within the limits of the City of Stamford shall be subject to the noise standards and decibel levels set forth in the regulations authorized in Sections 14-80a-1a through 14-80a-10a inclusive of the Regulations of Connecticut State Agencies.

B. No sound-amplifying devices on or within motor vehicles shall emit noise in excess of the noise levels as specified in § 164-5B.

C. This section dealing with motor vehicle noise shall be enforced by the Chief of Police and/or his designated subordinates.

**Sec. 164-8. - Recreational vehicle noise.**

No person shall create or cause to be created any unreasonably loud or disturbing noise due to the operation of a recreational vehicle. A noise shall be deemed to be unreasonably loud and a violation of this chapter when the noise so generated exceeds the noise level standards set forth in § 164-5B.

**Sec. 164-9. - Inspections.**

A. For the purpose of determining compliance with the provisions of this chapter, the Director of Health or his designated representative is hereby authorized to make inspections of all noise sources and to take measurements and make tests whenever necessary to determine the quantity and character of noise. In the event that any person refuses or restricts entry and free access to any part of a premise or refuses inspection, testing or noise measurement of any activity, device, facility or process where inspection is sought, the Director of Health and/or designated representative may seek from the appropriate court a warrant without interference, restriction or obstruction, at a reasonable time, for the purpose of inspecting, testing or measuring noise. Should any inspection or measurement be required to be taken during hours of the day or night which cause the Health Department to incur expenses for overtime hours paid to any employee and such measurement or inspection indicates a violation of this chapter, the violator shall pay the City of Stamford for such expenses for overtime hours for said employee or employees in addition to any penalty provided for herein.

B. It shall be unlawful for any person to refuse to allow or permit the Director of Health or his designated representative free access to any premises when the Director of Health or his designated representative is acting in compliance with a warrant for inspection and order issued by the appropriate court.

C. It shall be unlawful for any person to violate the provisions of any warrant or court order requiring inspection, testing or measurement of noise sources.

D. No person shall hinder, obstruct, delay, resist, prevent in any way, interfere or attempt to interfere with any authorized person while in the performance of his/her duties under this chapter.

**Sec. 164-10. - Violations and penalties.** <sup>[640]2</sup>

Any person in violation of any of the provisions of this chapter shall be fined in an amount not to exceed ninety dollars (\$90.). Each day such violation continues shall constitute a separate violation.

**Sec. 164-11. - Variances; appeals; administration.**

A. Variances.

(1) Any person living or doing business in Stamford may apply to the Director of Health for a variance from one (1) or more of the provisions of this chapter, which are more stringent than the Connecticut Department of Environmental Protection regulations for the control of noise, provided that the applicant supplies all of the following information to the Director of Health:

- (a) Location and nature of activity.
- (b) The time period and hours of operation of said activity.
- (c) The nature and intensity of the noise that will be generated.
- (d) Any other information required by the Director of Health.

(2) No variance from these regulations shall be issued unless it has been demonstrated that:

- (a) The proposed activity will not violate any provisions of the Connecticut Department of Environmental Protection regulations.
- (b) The noise levels generated by the proposed activity will not constitute a danger to the public health.
- (c) Compliance with the regulations constitutes an unreasonable hardship on the applicant.

(3) The application for variance shall be reviewed and either approved or rejected within fifteen (15) days of receipt by the Director of Health. The approval or rejection shall be in writing and shall state the condition(s) of approval, if any, or the reasons for rejection.

(4) Failure to rule on the application within the designated time shall constitute approval of the variance.

(5) Any person aggrieved by the decision of the Director of Health with respect to any variance may appeal in accordance with the Charter to the Health Commission within a period of ten (10) days of the reception of the Health Director's decision.

B. The Director of Health is herewith authorized to make regulations from time to time, not inconsistent with the State Public Health Code and/or the regulations of the State Department of Environmental Protection regarding noise, which shall, upon approval by the Board of Representatives, become effective therewith.

C. Contracts. Any written agreement, purchase order or contract whereby the City of Stamford is committed to an expenditure of funds in return for work, labor, services, supplies, equipment, materials or any combination thereof shall not be entered into unless such agreement, purchase order or instrument contains provisions that any equipment or activities which are subject to the provisions of this chapter will be operated, constructed, conducted or manufactured without violating the provisions of this chapter.

D. Mediation. In the event that the Director of Health receives a complaint alleging a violation of this chapter by noise emanating from a construction or demolition activity, he is expressly authorized to

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seek to mediate such dispute within forty-eight (48) hours, provided that he is satisfied that the complainant is aggrieved by the alleged violation, that there is reasonable grounds to believe that there is a violation of this chapter, and he determines, in view of the particular factual circumstances, that such mediation may result in a satisfactory resolution of the complaint. Nothing herein is intended to affect or in any way limit any other procedures established elsewhere in this chapter, limit any other powers granted to the Director of Health or require the Director of Health to invoke the mediation powers herein established.

**Sec. 164-12. - Effect on other regulations.**

All provisions of the zoning regulations of the City of Stamford which are more stringent than those set forth herein shall remain in force. If, for any reason, any word, clause, paragraph or section of this chapter shall be held to make the same unconstitutional, this chapter shall not thereby be invalidated and the remainder of this chapter shall continue in effect. Any provision herein which is in conflict with the Connecticut General Statutes or the Public Health Code of the State of Connecticut is hereby repealed, it being understood that said statutes and code shall take precedence over this chapter.

**Sec. 164-13. - Enforcement.**

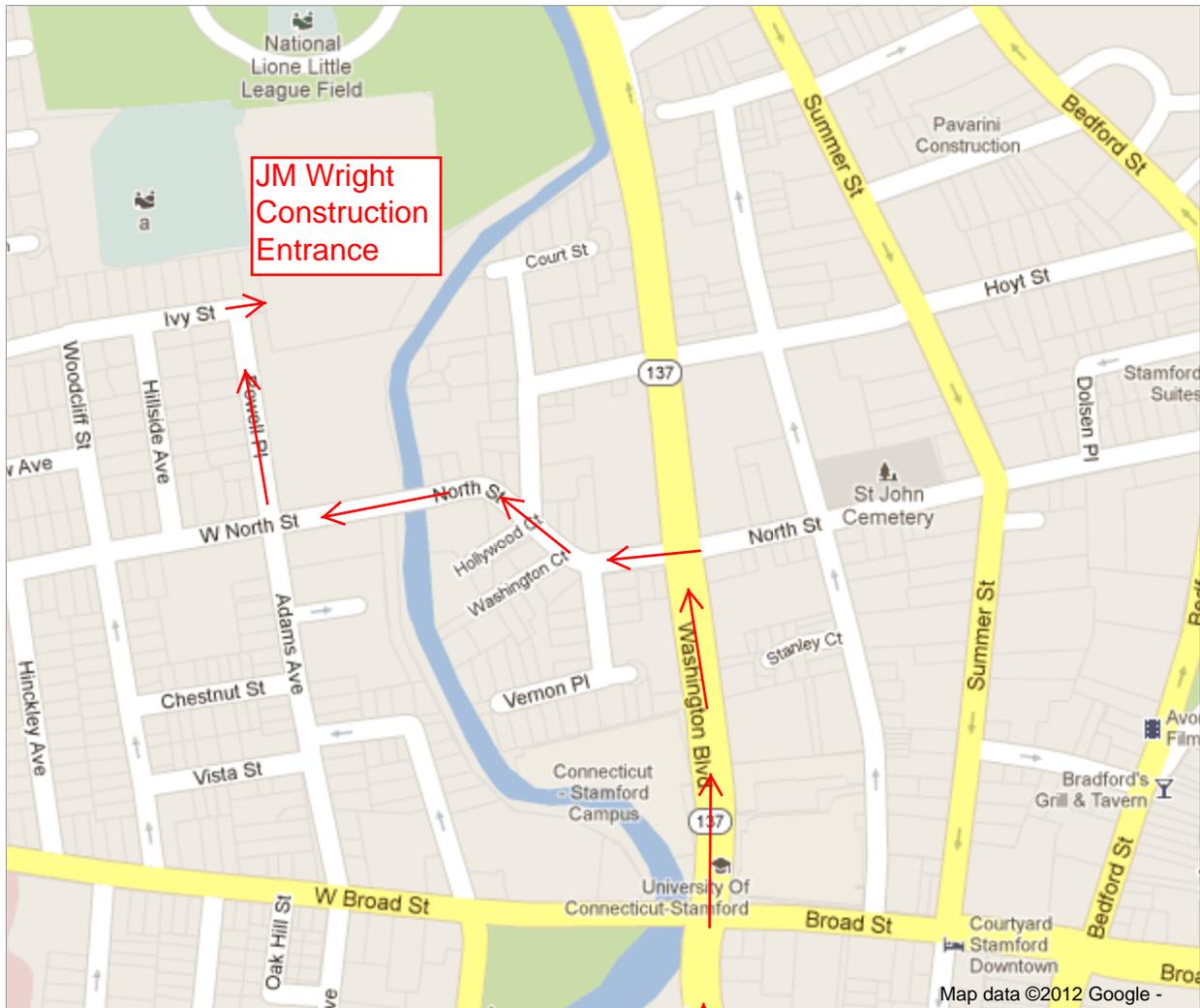
Notwithstanding anything contained herein to the contrary, § 164-5E(1) and (5) shall be enforced by the Chief of Police and/or his designated subordinates and/or the Director of Health and/or his designated subordinates.

<sup>(639)</sup> 1.1 Amended 11-10-03 by Ord. No. 1015; 9-7-10 by Ord. No. 1118.

<sup>(640)</sup> 2 Amended 2-2-2004 by Ord. No. 1022.



To see all the details that are visible on the screen, use the "Print" link next to the map.



From 95 N. Bound take exit 8 followed by a left to Atlantic St followed by another left onto N. State Street Followed by a right onto Washington Blvd. Off Washington take North Street heading to W. North Street followed by a right onto Powell, continue until Ivy St where you will find the construction entrance on your right.

From 95 S. Bound take exit 7 to N. State Street Followed by a right onto Washington Blvd. Off Washington take North Street heading to W. North Street followed by a right onto Powell, continue until Ivy St where you will find the construction entrance on your right.



JM Wright Technical High School Stamford, CT (BI-RT-842 CMR)

11/13/12

Package # BP-001.1

## SITE WORK

### SCOPE OF WORK

The following items are included in Subcontractor's Scope of Work but are in NO WAY meant to limit the Scope of Work and obviously do not list all the items that Subcontractor must perform.

Furnish all labor, materials, supervision, tools, supplies equipment, insurance, permits, all applicable sales and use taxes, and services necessary for a **COMPLETE SITEWORK PACKAGE** as shown in the Contract Documents for the above referenced project, to be in accordance with the Project's General Conditions and related work by others as described herein, to include, but not limited to the following:

Division 1 – General Requirements; Division 2 – Site work and all applicable specifications sections pertinent to scope of work. Including but not limited to the following sections; Section 023000 Subsurface Investigation, 024113 Selective Site Demolition, 024119 Selective Demolition, 028300 Lead Awareness, 030130 Maintenance of Cast-In-Place Concrete, 033000 Cast-In-Place Concrete, 040120 Maintenance of Unit Masonry, Precast Concrete and Limestone, 042000 Unit Masonry, 047200 Cast Stone Masonry, 055214 Exterior Metal Railings, 072100 Thermal Insulation, 107500 Flagpoles, 129300 Site Furnishings, 310519.13 Geotextiles, 311000, Site Clearing, 312316.16 Structure excavation, Backfilling and Compaction, 312319 Dewatering, 312333 Trenching and Backfilling, 312500 Erosion and Sediment Control, 315000 Excavation Support and Protection, 321216 Asphalt Paving, 321313 Concrete Paving, 321316 Decorative Concrete Paving, 321373 Concrete Paving Joint Sealants, 321400 Unit Paving, 321613 Curbs, 321713 Parking Bumpers, 321723 Pavement Markings, 323113 Chain Link Fences and Gates, 323119 Decorative Metal Fences and Gates, 323119.03 Decorative Metal Screen and Louver Gates, 323140 Timber Guide Rails, 328000 Irrigation System, 328001 Rainwater Harvesting Tank & Pump System, 329115 Soil Preparation (Performance Specification), 329200 Turf and Grasses, 329300 Plants, 330500 Common Work Results for Utilities, 330513 Manholes and Structures, 331100 Water Distribution Systems, 334000 Sanitary Sewer and Storm Drainage, 481614 Geothermal Well Drilling and Horizontal Pipe Installation, 003124.13 Limited Subsurface Investigation, Phase I Environmental Assessment, 003132.13 Geotechnical Reports: April 19, 2012 & June 30, 2006 including all related specification sections.

### General Requirements

- A. Subcontractor to provide 80 hours of operator and equipment time to off load miscellaneous deliveries.
- B. Subcontractor must designate a minimum of two laborers daily for a (7) month duration to clean-up as directed by the Construction Managers Superintendent.
- C. Subcontractor shall furnish, install and maintain all road plates as required for this scope of work. All road plates shall meet all DOT specifications and include engineering documentation. All road plates shall be pinned with a temporary asphalt border and in winter, all road plates shall be recessed flush with the adjacent pavement.

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- D. Subcontractor shall provide testing and certification data for all materials provided under this contract
- E. All layouts required for the Trade's Work is by this subcontractor. This subcontractor is responsible to provide all field checking and controls needed for the accurate installation and monitoring of his work.
- F. Flag-person(s) will be provided by this subcontractor when entering or exiting the site, when staging from the street, or as necessary for the work of this subcontractor. Certified flag-person(s) required when staging deliveries on any adjacent streets.
- G. Subcontractor is responsible to provide all scaffolding, staging, ladders and or safety measures to meet or exceed regulatory requirements including identification of the competent person for the erection and use of the same.
- H. Subcontractor is responsible to provide his own job offices with power and telephone, storage containers, tool boxes and etc.
- I. Subcontractor is responsible to schedule, secure and pay for all police details that may be required by this scope of work or as directed by local authorities.
- J. Subcontractor is responsible to coordinate and procure with the local water authority any apparatus associated with temporary water including but not limited to backflow preventers, meters and hose bibs. Actual cost of the water usage will be paid by the Construction Manager. Furnish and install 1" Temp water service to 3 locations on the building site. Including water meter and backflow preventers as required by the local authorities prior to new water main being installed and completed. The locations shall be determined by the Construction Manager. Water service cannot be interrupted while the project is active.

### **Site Security/Temporary Facilities and Protection**

- A. Furnish and install all temporary fencing with blue visual screen and a minimum of (3) 24' gates including, but not limited, the entire perimeter of the site and the field office location and lay down area as directed by the Construction Manager's Superintendent. Perimeter 6' fence shall be post driven. Subcontractor shall relocate the fencing and or gates during construction as required to facilitate the work. All temporary fencing and gates shall be removed at the conclusion of the project or as required and as directed by the Construction Manager's Superintendent.
- B. Furnish and install a 96" x 48" outdoor, lockable, enclosed bulletin board with three acrylic windows and aluminum frame (typical to the Bulletin Board Company SKU UV407-SIL). The bulletin board must be installed no later than one day after mobilization. The subcontractor shall install on 4x4 posts at a location determined by CMR.
- C. Furnish and install a temporary ~~compacted gravel~~ (asphalt) walkway and temporary fence with blue visual screen from Ivy Street to the Ball fields. This fencing will be relocated to facilitate the work in this area as directed by the CMR. At the conclusion, the subcontractor shall remove the walk and return to original condition. Subcontractor is responsible to keep this path clear at all times including snow removal and application of salt and sand, sweeping and general debris removal and as directed by the Construction Manager's Superintendent.
- D. Subcontractor shall carry an allowance of \$20,000 for the purchase and installation of temporary signage in addition to signage specified within this scope of work.
- E. Furnish and install all project sign as per 3.3 I in section 015000, including part a, b, and c.
- F. Subcontractor shall include all Snow Removal to perform the following: Provide all labor, equipment and materials required to perform all snow removal, sanding and salting at the project site. This includes, but is not limited to, shoveling / plowing of the area around the field offices, established parking areas, site roads, excavations, building pad, access to the building entryways and exits, and new pad. For overnight snow storms, snow removal shall be completed by 6:00 am the following

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morning to allow for normal construction activities to commence at 7:00 am. Snow to be removed from site after snow has been stockpiled from weather event.

- G. Furnish and install all winter protection and frost prevention required for the completion of its work. To include rolling in and out the hoses and covering with insulated blankets as directed by the Construction Manager's Superintendent. ~~Subcontractor shall provide a Ground Thaw Heater for one winter season as required.~~
- H. Furnish, install and maintain and sweep all temporary roads, walks and entrances as directed by construction manager. Temporary roads, walks and entrances to include importing, placing and compacting stone in a manner suitable for safe passage. Temporary ramps to be ADA accessible.
- I. Furnish, install and maintain all construction earth access ramps as requested by Construction Manager's Field Superintendent.
- J. Furnish and maintain all tree protection within scope of work in accordance with the contract documents.
- K. Subcontractor is required to be intimately familiar with the entire set of contract documents. Any work relating to this subcontractors scope of work that is either shown or implied on drawings other than the site work drawings are considered this subcontractors responsibility.
- L. Subcontractor shall be responsible for all temporary bracing, sheeting and shoring as required for the completion of its work.
- M. Subcontractor shall contact Call Before You Dig (CBYD) and coordinate with the local utilities before starting any excavation work so that underground utilities are properly marked. Protect all existing utilities encountered if they are scheduled to remain. Bidders should anticipate hand digging around existing utilities.
- N. ~~Furnish, install and maintain (11) 8' (w) x 12' (L) 6" deep out of ¾" stone pads. Locations shall be determined by the Construction Manager. Subcontractor to restore area to like new condition when completed.~~ Subcontract to include the furnishing and installation of plumbing and requirements for temporary heater services listed below.
  - 3800LF (1-1/2") black iron pipe including all fittings and valves
  - \$15,000 allowance for heater enclosure barricades
  - \$30,000 allowance for electrical and gas hook-ups to temporary heaters
  - \$10,000 allowance for miscellaneous duct work to temporary heaters.
  - \$15,000 allowance for plumbing and electrical permits

**Note; time and material tickets will have to be provided and verified for back-up to all the above listed allowances and given to the onsite Project Engineer only.**

- O. Subcontractor shall provide a firm compacted area for crane and pump staging as directed by the CMR project Superintendent.
- P. Furnish all materials, labor and equipment required to create and maintain the proposed top soil stock pile area as suggested on the Logistics Plan and provide all SWPPP measures as per the contract documents and as directed by the Construction Manager's Superintendent.
- Q. Subcontractor shall provide any temporary power required for this scope of work.
- R. Furnish, install and include removal of the ¾" domestic water service to Construction Manager Field Office and Owner's Field Office location. Service shall be stubbed up above grade and connected at each trailer. Including water meter, disinfection and backflow preventer as required by local authorities. All piping above grade to be wrapped with heat tape and insulation to prevent pipes from freezing. All usages fees will be paid for by others.
- S. Furnish & install a temporary sanitary sewer connection to Construction Managers field office and Owner's Field Office location. Service shall be stubbed up above grade and connected at each trailer. Work shall comply with local regulations and permits pulled when required. At the completion of the project, remove temporary sewer connection and patch sewer line to remain.

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- T. Furnish and install temporary power service to the Construction Managers and Owners Field Offices and Security Guard Shack as shown on the site logistics plan. Include the installation of 4 spot lights on the field offices (2) on each and a GFCI protected quad receptacle at the meter.
- U. Subcontractor shall provide all dumpsters required for this scope of work. Subcontractor to follow waste management and disposal plan as outlined in specification section 017419. Dumpsters shall be assigned to different construction debris materials to follow LEED regulations on the project. Subcontractor to provide and maintain all signage necessary to identify each dumpster as outlined in the LEED requirements. Signage shall be a minimum of 48"x48". All delivery and pull tickets shall be provided to the Construction Manager. Subcontractor to submit monthly report on materials being recycled.
- V. Subcontractor shall be responsible for cleaning on a daily basis of all areas that they are working in. The areas shall be left broom clean on a daily basis. All debris and scrap is to be removed to the subcontractors dumpster. All carts and other equipment required to transport the debris shall be provided by the Subcontractor. Subcontractor must supply a minimum of two laborers daily to clean-up after their work. A separate clean-up line item will be required on the contract schedule of values. Subcontractor shall include vacuuming, bathroom cleaning and dusting once a week and trash removal once a week for the ~~Construction Managers and~~ Owner's Field Office for the duration of the project (15 months). Cleaning products, paper towels, toilet paper, hand soap, paper cups, and vacuum provided by the Subcontractor. Progress payments for this line item will be closely scrutinized to assure this subcontractor meets contractual obligations to clean-up daily.
- W. Subcontractor shall provide (80) 30yd dumpsters for general construction debris during building construction. These dumpsters are above and beyond those requirements to execute the Site work package. Subcontractor to follow waste management and disposal plan as outlined in specification section 017419. Dumpsters shall be assigned to different construction debris materials to follow LEED regulations on the project. Subcontractor to provide and maintain all signage necessary to identify each dumpster as outlined in the LEED requirements. All delivery and pull tickets shall be provided to the Construction Manager. Subcontractor to submit monthly reports on materials being recycled.
- X. Subcontractor to provide (75) 10lb ABC fire extinguishers for use throughout the building. Subcontractor to maintain and replace fire extinguishers as needed. Subcontractor to perform Monthly inspections and submit to Construction Manager's Superintendent.
- Y. Subcontractor to hire the services of a local exterminator or pest control company to perform extermination and control procedures at monthly intervals so the project will be free of pests and their residue.
- Z. Subcontractor to provide (10) temporary toilets with sanitizer for the duration of the project for (15) months. Service to include twice a week cleaning. Toilets to be provided in locations as directed by the Construction Manager.
- AA. Subcontractor shall provide all directional signage as required to perform the site work operations.
- BB. The Subcontractor is responsible to provide adequate access roads into and through the site for the safe delivery and movement of derricks, cranes, trucks, other necessary equipment, and the material to be erected and means and methods for pedestrian and vehicular control.
- CC. The Subcontractor must provide a firm, properly graded, drained area, readily accessible to the work with adequate space for the safe storage of steel materials and the safe operation of the steel erector's equipment.
- DD. All soils are to be considered Type C, unless specifically classified otherwise by a Professional Engineer. The required testing to change soil classification shall be the responsibility of this Subcontractor.

### **Survey and Layout**

- A. Subcontractor shall include all required surveying, layout and engineering required to complete scope of work. Surveying services will also include providing site control at the onset of the project and continued at an ongoing basis through-out the site-work, structural steel & concrete activities.

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Surveying services will include but not be limited to providing site benchmarks & elevations for all site & utility work, building benchmarks and elevations, building corners, offsets as required, elevations for slab on grade and slab on deck. Protection and Maintenance of all hubs is the complete responsibility of this Subcontractor. Should offsets and/or hubs be damaged or destroyed through the lack of protection or lack of proper identification, subcontractor shall replace control points at their costs. Subcontractor shall provide no less than two (2) control points and two (2) benchmarks for the project building by a certified profession surveyor as directed by the CMR Superintendent. It is the responsibility of the Sitework Subcontractor to protect and maintain the established control and benchmarks throughout the project, as well as, any layout provided by the subcontractor. The Construction Manager shall not be responsible for damaged or removed survey points. Include all required or necessary field measurements.

- B. Subcontractor shall provide all clearing limits and limits of disturbance as shown on the construction documents.
- C. Subcontractor shall also include all cost required to produce an A-2 as-built survey of the entire site at the completion of the project. Refer to specification section 017123 for requirements

### **Erosion and Sediment Control**

- A. Not Less than Five Days prior to the start of construction (Including any Site Clearing) a Pre-Construction Meeting with the Owner and Engineer is required to review existing site conditions.
- B. Subcontractor shall submit erosion and sediment control work plan at least two (2) weeks prior to that start of any earth moving activities.
- C. Subcontractor shall furnish and install all labor and material for all erosion and dust control and maintenance in accordance with the contract documents including silt fencing, erosion blankets on slopes greater than or equal to a 3:1, inlet protection, rip-rap stone check dams, hay bales, geosynthetic materials until such time as areas are stabilized to original conditions. All erosion control methods must adhere to or surpass methods described in contract documents SWPPP, as well as, any additional requests by local authorities and/or requested by the Construction Manager's Superintendent.
- D. Subcontractor shall provide a minimum of (200) lf of additional silt fence and haybales on site for emergency repairs
- E. Subcontractor shall monitor and maintain SWPPP and provide inspection reports as per the contract documents.
- F. Subcontractor shall provide, install and maintain rain monitor on the exterior of the Construction Managers Field Office.
- G. Subcontractor shall remove all E&S controls after all areas have been stabilized or required.
- H. Subcontractor shall provide all temporary hay mulching and seeding as required to stabilize disturbed areas.
- I. Subcontractor shall provide all equipment, labor and materials necessary to facilitate the control of dust onsite and offsite. This shall include, but not limited to, water, water trucks, calcium, etc.
- J. Subcontractor shall provide all dust control and parking lot sweeping per Construction Manager's Field Superintendent. Subcontractor to also provide Street Sweeper for roads in adjacent park and Ivory Street as necessary and as per the direction of Construction Manager.

### **DEWATERING**

- A. Subcontractor shall submit a dewatering plan for approval at least two weeks prior to start of any dewatering operations.
- B. Subcontractor shall provide all equipment, labor and materials required to perform all dewatering activities. This shall be accomplished by any means necessary. Dewatering is to be in compliance with all CT DEP requirements. Subcontractor shall control grading so that ground is pitched to

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prevent water from running to excavated areas, damaging other structures or adjacent properties. Include any DEP & City permits and fees for dewatering operation discharging into the city system. Dewatering shall be pumped through a sediment basin, sack or trap prior to discharge.

Subcontractor is responsible for all primary treatments. Subcontractor shall remove and dispose of all solids settled from dewatering operation.

- C. Subcontractor shall be responsible for all dewatering operations including but not limited to building excavations, utility trenching. Any utility structures that we require dewatering, shall be the responsibility of the subcontractor
- D. Subcontractor to furnish and maintain all site dewatering in accordance with Specifications to include temporary dewatering sedimentation basins as required by SWPPP and the Construction Manager's Field Superintendent including all storm-water management basins, emergency spill ways, riprap filter berms and temporary diversion berms.

### **SITE DEMOLITION**

- A. Prior to commencement of site demolition work, site subcontractor is required to submit a demolition plan describing the proposed sequence, methods, and equipment and disposal of existing utilities to insure the proper continued operations of such outside the project limits.
- B. Subcontractor shall provide pre-demolition photographs and videotape showing conditions prior to work commencing.
- C. Subcontractor shall make themselves familiar with the asbestos, mold and lead awareness laws of the State of Connecticut and notify the Construction Manager of materials discovered with may contain lead materials.
- D. Subcontractor to attend a preconstruction meeting with the Construction Manager and Owner if required, prior to proceeding
- E. Subcontractor to furnish all labor, material, equipment, permits and incidentals necessary for the demolition, removal and lawful disposal of remaining above ground and underground utilities, aboveground features including but not limited to the existing walks, roadways, curbing, driveways, speed bumps, site lighting, trees, shrubs, stumps, fencing, metal beam rails, steel posts, retaining wall rails and posts, retaining walls, bollards, steps, shed, brick seat wall, , concrete walls, areaway and stairs, equipment and pads, and all other items as indicated on the drawings, as specified, known to exist on site, and as directed by Engineer and Construction Manager. Items, which are to be salvaged and stockpiled, shall be coordinated with the Construction Manager's Field Superintendent. Subcontractor shall relocate all items as required and directed by the Construction Manager's Field Superintendent.
- F. Subcontractor shall provide labor and equipment necessary to perform all site clearing activities and Additional clearing if needed for new Fencing. Including the removal of all stumps, logs, branches, brush, chippings and mulch. All items are to be disposed of in a legal and reportable manner.
- G. Subcontractor to remove all exterior flatwork including under overhangs and door stoops. All interior slab removal is by others.
- H. Subcontractor to remove all items as shown drawing LD100
- I. Subcontractor to remove all items as shown on drawings C001, C002, and C003
- J. Subcontractor to plug all existing pipes or structures to remain and fill all abandoned pipe with flow able fill
- K. Subcontractor to temporarily plug pipes when necessary
- L. Subcontractor remove electrical services complete as shown on the site demo electrical plans ED-002.
- M. Subcontractor shall patch and repair any adjacent materials and surfaces impact by the demolition process
- N. Subcontractor to patch and repair end walls and railings around new dumpster enclosure at retaining wall and as noted per the retaining wall notes shown on LM-112.
- O. Subcontractor to protect all site items that call existing to remain.

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- P. Subcontractor responsible for complete coordination with utility companies and municipal departments for discontinuance or interruption of utility services due to demolition work.
- Q. Subcontractor shall repair to a like new condition any damage to existing streets, sidewalks, landscaping and any structure or area that was damaged or disturbed during operations of this scope of work.
- R. At no time shall utility service to the existing buildings be disrupted except in the case of limited planned interruptions for the switch over from temporary or permanent services. This subcontractor shall provide all necessary protection for all utilities and appurtenances remaining in operation.
- S. Subcontractor to provide all temporary tree and plant protection, including temporary mulch and fencing. Subcontractor responsible for root pruning, crown pruning with a licensed arborist in accordance with the plans and specification. Remove all mulch and fencing at the completion.

### **SHORING & BRACING**

- A. Subcontractor to provide all shoring and bracing required during demolition and sitework activities necessary to protect all existing buildings, streets, walkways, utilities, and other improvements and excavation against loss of ground or caving embankments including soldier piles and lagging.
- B. Subcontractor to provide drawings and details of required shoring and bracing systems that are prepared and sealed by a registered Professional Engineer licensed in the State of Connecticut.

### **EARTHWORK**

- A. Subcontractor shall provide all labor, materials, tools, equipment and supervision necessary to provide all general excavation and backfill for structures and site improvements.
- B. Subcontractor shall provide all labor, material and equipment to perform test pits to verify exact locations of underground utilities, structures and other subsurface conditions and provide sketches identifying the subsurface location and features
- C. Subcontractor shall provide all labor and equipment required for all mass excavation activities. This includes the export of any excess or unsuitable materials.
- D. Subcontractor shall be responsible for all rock removal. This includes all blasting, ripping and or hammering required for a complete scope of work, per the geotechnical reports.
- E. Subcontractor shall follow and adhere to the recommendations of the Geotechnical Report.
- F. Earthwork is "Unclassified", as represented in the Geotechnical Report. No additional compensation for unsuitable materials will be considered.
- G. Provide all equipment and labor required for all foundation excavation and backfill with suitable material shown on all Drawings Subcontractor shall provide Geotextile fabric and 6" of stone under footings per Structural Details and Geo Tech Reports
- H. Provide all equipment, labor and materials for all underslab utility trench, excavation and backfill with bedding. (slab removal by demolition contractor)
- I. Subcontractor shall perform all slab preparations including Utility Trenches the import and placement of structural fill and stone per Geotechnical Report. All slab areas shall be prepared within ¼" of bottom of Slab as indicated on Contract drawings. Mass demo of Slabs by Demolition Subcontractor
- J. Provide all Equipment labor and materials to backfill to proposed grades at NE Corner of Courtyard with Import Structural Fill or Site Borrow compacted to Spec's
- K. Subcontractor shall strip and salvage all topsoil scheduled to be re-used on site. Topsoil stockpile shall be enclosed with silt protection. All topsoil shall be screened before being reused. Subcontractor shall remove and dispose of excess topsoil accordingly.
- L. Subcontractor to furnish all labor, materials and equipment required for all site cuts and fills in accordance with contract documents. Subcontractor shall haul away excess material required. Subcontractor shall import required fill material as required.
- M. Subcontractor to furnish and install all perimeter building foundation insulation.
- N. Subcontractor to provide all labor, materials and equipment necessary for all rough and fine grading for all building & pavement areas as required to complete all finish paving, lawns and planting work.

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- O. Subcontractor to provide all labor, materials, tools, equipment and supervision necessary to excavate, backfill, trench and provide all structural fill, backfill material and bedding materials for all building concrete work and all underground plumbing, mechanical and electrical utilities in strict accordance with the contract documents.
- P. Subcontractor to complete all interior trenching and excavation work for utilities will be performed under this scope of work.
- Q. Subcontractor to provide for all cold weather protection including the protection of the bottoms of excavations against freezing temperatures.
- R. Subcontractor shall employ a licensed Surveyor to certify that finish grade (+/- ¼") inside all building utilities lines and slabs is achieved.
- S. Subcontractor to furnish and install geotextiles as required by the specifications and in accordance with manufacturer's instructions
- T. Subcontractor shall be responsible for the removal and replacement of any unsuitable materials damaged due to frost, snow or rain or damaged due to the failure of or improper protection of open trenches and excavations.

### **Building Excavation**

- A. Infill existing Boiler Room, Gas Meter Room, and Electric Vault as shown on the construction drawings with compacted crushed stone to bottom slab. Work to be coordinated with concrete subcontractor.
- B. Provide equipment and labor required for excavation of footings foundation, haunches, grade beams, slabs on grade and backfilling with compaction as shown on building drawings and remove excess materials from building and site.
- C. Provide equipment and labor required to Concrete slab and excavation for all underground utilities including new and existing sanitary sewer, storm piping tied to roof drains existing and new pipe, electrical, existing and new piping. Backfill and compact to Spec to a ¼" + or - under side of Slab elevations.
- D. It is the subcontractor's responsibility to check with local utility companies for rules and regulations concerning underground utilities.

### **Utilities**

- A. Provide all labor, materials and equipment to perform dye tests on all existing underslab sanitary and storm lines throughout the entire buildings to the exterior structures. Subcontractor to document all findings and submit to the Construction Manager.
- B. Provide all labor, material and equipment to perform video evidence of condition and location of all existing underslab sanitary and storm lines throughout the entire buildings to the exterior structures. Subcontractor to document all findings and submit 4 DVD hard copies to the Construction Manager.
- C. Upon completion of all underground sanitary and storm lines, Subcontractor shall jet out all lines and provide video documentation that all lines are clean and free of debris.
- D. Provide all materials, labor and equipment required to install all footing and underslab drains. Reconnect existing storm piping from existing building to new storm drain piping.
- E. Furnish and install all storm drainage piping, catch basins, yard drains, Doghouses, manholes, Drywells, Water Quality structure(s), and rip-rap, and related materials for conflict crossings
- F. Subcontractor shall clean out and vacuum all new and existing (within the work area) storm water structures upon completion for final inspection.
- G. Furnish and install all Precast Stormceptors and infiltration systems including all excavations, sub-base preparations, gravel base, hoisting / rigging
- H. Sanitary sewer piping, structures, tanks, and testing. Include complete tie in at Ivy Street entry.

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- I. Subcontractor to furnish all labor, materials, equipment and permits required to install all Sanitary Sewage Systems to interior of all buildings. Subcontractor shall include connection to existing Sanitary Sewerage lines in accordance with the contract documents and all state and local requirements.
- J. Subcontractor to furnish and install all structure, basins, manholes, oil/water separators, piping, stone, and bedding material in accordance with the contract documents.
- K. Subcontractor to furnish and install proceptor GMC 3000 structures and vent lines.
- L. Subcontractor shall furnish all required testing and sign-offs for a complete system.
- M. Excavate and backfill for gas service including bedding. Include Excavating and Backfill for tie in of main from meter to new kitchen area as shown on contract documents
- N. Excavate, concrete encasement and backfill for new primary power conduit, site electrical, security and lighting conduits. Include transformer pads or vaults, any concrete manholes, concrete handholes, light pole bases, and bollard bases.
- O. Provide forms, concrete and related reinforcing, finishing, curing for site lighting pole bases or (Anchor Bolts to be Supplied by Electrical Contractor)
- P. Subcontractor shall provide complete testing and disinfection of all water distribution systems
- Q. Subcontractor shall provide and install warning tape at all utility installations.
- R. Subcontractor is responsible for any and all permits and permit fees associated with this scope of work.
- S. Furnish all labor, materials, equipment and permits required to install all Water Service and Fire Service Mains in accordance with the contract documents. Subcontractor to fully extend water service inside buildings and stub pipes above the finish floor and provide flanged caps as necessary.
- T. Provide excavation, backfill, trenching and bedding materials in accordance with the contract documents for new water lines.
- U. Furnish and Install all water meter vaults, gate valves, reducers, bends, cross tee's, caps, mega lugs, thrust blocks, fire hydrants and testing as required per State and Local codes for the installation of all Water Service and Fire Service Mains.
- V. The subcontractor shall notify the Construction Manager's Field Superintendent as well as the local Water Company 48 hours in advance of any connection/capping of existing lines required to complete the Subcontractor's work. Maintain water service to building while new mains are being installed and existing demolished.
- W. Subcontractor to relocate gas meters if necessary to maintain service to existing facilities.
- X. Subcontractor to adjust all frames and covers and valve boxes to proposed grade.
- Y. Subcontractor to excavate, install bedding sand and backfill for fuel line on both the interior and exterior of the building.

### **BITUMINOUS CONCRETE, PAVING AND CURBING**

- A. Furnish all labor, materials and equipment required to install all Bituminous Concrete Paving and sidewalks work required in accordance with the contract documents.
- B. Furnish and Install all bituminous concrete binder and finish in accordance with contract documents. Subcontractor shall assume in its bid that the binder course will be installed as soon as the aggregate base is placed in accordance with Specifications. Only when directed by the Construction Manager will the Subcontractor prepare and place the top course of paving. Subcontractor shall repair binder coat as necessary prior to finish coat and as directed by Construction Manager.
- C. Furnish and Install all tack coats as required and as specified.
- D. Saw cutting of existing paving and driveways and removal thereof is to be in accordance with the contract documents.
- E. Subcontractor required to carry multiple mobilizations for parking lot paving consistent with schedule and phasing plan. Completion of lots will be phased.

**SITE CONCRETE PAVING & CURBING/COLOR CONCRETE/BRICK PAVERS**

- A. Furnish and install all granite curbing per details shown on LM-500.
- B. Subcontractor to furnish and install all precast curb & precast curb in front of monolithic curb per detail 6/LM-500 and furnish concrete foundation per detail 6/LM-500
- C. Furnish and install all concrete pavement and sidewalks tied to precast curbs, and cast iron detectable warning surface. Includes, but is not limited to, all concrete, reinforcing, forms, curing, etc.
- D. Furnish and install all concrete site stairs. Includes, but is not limited to, all concrete, reinforcing, forms, curing, etc.
- E. Furnish and install all concrete sub-base slab for brick pavers shown on contract documents. Including, but is not limited to, all concrete, reinforcing, forms, curing, etc.
- F. Furnish and install the concrete for Generator pad. Includes, but is not limited to, all concrete, reinforcing, forms, concrete pad for dust collector, curing, etc.
- G. Furnish and install the concrete for E House foundations and slab. Includes but is not limited to, all concrete, reinforcing, forms, curing etc.
- H. Furnish and install gas meter pad, dumpster enclosure slabs, storage slabs, stoops or aprons, shown on Documents
- I. Furnish and install all concrete required for all sign posts, metal bollards, granite bollards, fence posts, flagpoles, wheel stops and all other site accessories required concrete per contract documents or manufacturers recommended instructions.
- J. Furnish and install all color integrated concrete banding to match brick seat wall.
- K. Subcontractor to furnish and install all footings and foundation walls for brick seat walls, screen walls, monumental sign foundation and retaining walls
- L. Subcontractor shall shotblast, repair cracks, and provide resinous coating on retaining wall. Replacement of 10 panels of retaining wall top rail also to be included.
- M. Subcontractor to caulk all concrete pavement and sidewalk joints including sidewalk joint at building and around site railings installed in flatwork as shown on the contract documents
- N. Subcontractor shall furnish and install all vertical foundation insulation as required in accordance with the project drawings and specifications.
- O. Furnish and install all brick pavers including all beddings, edging, joint fill materials, neoprene adhesives and stone weeps at low points.
- P. Furnish and install all decorative maintenance strips including form subgrade, 1" sand setting bed, concrete pavers and edging.
- Q. Saw cutting of existing paving and driveways and removal thereof is to be in accordance with the contract documents.

**SITE MASONRY and CAST STONE**

- A. Furnish and install all cmu, brick, capstone, grout, mortar, flashings, reinforcement and accessories for complete dumpster enclosures, screen walls, seat walls and (2) monumental signs.
- B. All masonry cleaning included for items listed above

**SITE IMPROVEMENTS**

- A. Furnish all labor, material and equipment to install flag poles, accessories & concrete bases in accordance with the contract documents.
- B. Furnish all labor, material and equipment to install pipe and granite bollards in accordance with the contract documents
- C. Furnish all labor, materials, tools & equipment required to install all chain link fencing, gates and necessary hardware in accordance with the contract documents.

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- D. Furnish all labor, materials, tools & equipment required to install all decorative metal fencing and gates and necessary hardware in accordance with the contract documents.
- E. Furnish all labor, materials, tools & equipment required to install all decorative metal screen and gates and necessary hardware in accordance with the contract documents.
- F. Furnish and install all exterior site rails on all stairs and retaining walls as per the contract documents
- G. Furnish all labor, materials, tools & equipment required to install all timber guide rails.
- H. Provide and maintain access into the site and around proposed building for other trades. This shall include anti tracking pads at each entrance and a flat, stoned road way running the entire perimeter of the building.

### **PAVEMENT MARKINGS & TRAFFIC SIGNS**

- A. Subcontractor to furnish all labor, materials and equipment required to install all pavement markings, line striping & symbols and traffic signs in all areas in full accordance with the contract documents.
- B. Subcontractor to furnish and install all site signage and posts in accordance with the contract documents
- C. Subcontractor to furnish and install all concrete wheel stops.

### **IRRIGATION and RAINWATER HARVESTING TANK & PUMPING STATION**

- A. Subcontractor to furnish all labor, material and equipment required to install a complete irrigation system and rainwater harvesting tank and pump station as shown on the contract documents including but not limited to 15,000 gallon storage tank, controllers and enclosures, meters, backflow preventers, related plumbing and fittings, drip irrigation, rain sensor, grounding, air release valve assemblies, testing and instructions, excavation and backfilling, maintenance and warranty, water audit and irrigation schedule.
- B. Furnish and install rain water harvesting tank, concrete anchoring slab, related pump and controls, piping, drains and optimax filter, manways ect.
- C. Subcontractor to submit qualifications of installer to ensure that there is a minimum of 5 year experience and are CIC certified
- D. Final water and electrical connections to be performed under this contract.
- E. Subcontractor to provide all coring and link seal needed for this scope of work.
- F. Subcontractor to furnish all labor, material and equipment to install precast deadman system with hold down straps for the irrigation holding tank.
- G. Subcontractor to include all labor, material and equipment for backfill materials and geotextile fabric around irrigation tank

### **TOPSOIL, MULCHING AND LANDSCAPING**

- A. Subcontractor to furnish all labor, materials, tools & equipment required to install all topsoil, mulching, landscaping, plantings & lawns in accordance with the contract documents.
- B. Subcontractor to furnish and install all screened topsoil including amendments to proposed depths as shown for all lawns, planting beds and planters in accordance with the contract documents.
- C. Subcontractor to furnish and install all fertilizer to seeded areas 25' outside of building perimeter, and furnish and install sod within 25' of building perimeter and mulch in accordance with the contract documents.
- D. Subcontractor to include all edging, tree stakes and stabilizers,
- E. All tree, shrub and plant materials must be provided in accordance with the contract documents with no substitutions.
- F. Subcontractor must maintain watering and cutting of all Landscaping, Plantings & Lawns in accordance with the contract documents and for a period of 18 months after acceptance by the Owner.

- G. Subcontractor responsible for root pruning, crown pruning with a licensed arborist in strict accordance with the contract documents.

**GEOHERMAL WELL DRILLING and HORIZONTAL PIPING INSTALLATION**

- A. Subcontractor to furnish all labor, material and equipment to install a complete geothermal well system as outlined in the contract documents.
- B. Subcontractor to include all well drilling, well materials, exchanger grout, HDPE U-Tube/Pipe assembly and materials, and underground pipe markers.
- C. Subcontractor to provide all registrations, certifications and licenses for installers for work performed in this scope.
- D. Subcontractor to provide a complete system for a 6" water well system, as referenced in Specifications section 012200 Allowances, of contract documents. See Allowances on Bid Form.