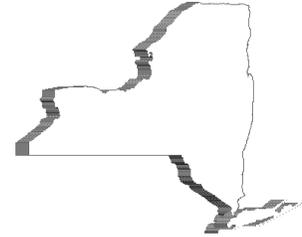




STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



ADDENDUM NO. 1 TO PROJECT NO. Q1576

**CONSTRUCTION WORK, HVAC WORK, ELECTRICAL WORK
REMEDiate LEAD & REPLACE FINISHES & UPGRADE ELECTRICAL & HVAC
NEW YORK STATE ARMORY
137 GLENMORE ROAD
TROY, NY**

February 12, 2015

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual.
Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATION GROUP

1. SPECIFICATION SECTION 011000 SUMMARY OF THE WORK ARTICLE 1.10 E.
(Schedule of items to be temporary relocated, stored and reinstalled) , Add the following items to be temporary relocated, stored and reinstalled:

“Room 134: 1 Conference table, 2 Book shelf units, 7 chairs, 2 work stations, misc.
Room 134A: 1 work station, 3 storage cabinets, 1 file cabinet. 1 desk, 4 chairs, misc.
Room 134B: 5 storage cabinets, 2 refrigerators, 1 book shelf unit, 1 desk, 2 tables, misc.
Room 129: Misc. hand tools, 1 desk, 4 storage cabinets, misc. power tools, misc.
Room 130: 1 table, 4 storage cabinets, 1 table, 7 chairs, 1 plan file table, 1 refrigerator, misc.
Room 133A: 2 desks, 5 chairs, 1 storage cabinet, 1 refrigerator, misc.
Room 133B: 2 desks, 4 chairs, 1 file cabinet, 2 book shelf units, misc.
Room 133C: 5 heavy duty shelf units, 1 storage cabinet, misc.
Room 133D: 3 desks, 4 chairs, 1 file cabinet, 2 book shelf units, misc.
Room 136: 4 file cabinets, misc.
Room 139: 4 heavy duty shelf units, 17 Storage cabinets, 2 desks, 1 couch, 4 chairs, misc.
Room 138: 24 heavy duty shelf units, 9 storage cabinets, 3 desks, 4 chairs, misc.
Room 147: 1 copier, 3 chairs, 3 file cabinets, 2 storage cabinets, 1 desk, misc.
Room 147A: 1 station, 1 chair, 3 storage cabinets, misc.
Room 150: 1 Storage cabinet on dolly, 1 washing machine
Room 151: 1 table, 11 chairs, 1 display cabinet, 1 refrigerator, misc.
Room 145: 1 station, 19 chairs, 11 storage cabinets, 8 desks, 8 folding tables, 3 file cabinets, 2 bookcases
Room 122-122A: Safe on wheels
Room 138B: 2 work stations
Room 139B: 6 chairs, 1 table.
Room 133: 11 chairs and 1 couch
Room 141D: 1 work station, 4 storage cabinets.

Room 140, 140A: storage cabinets

Room 118: 1 safe on a dolly, 1 refrigerator, 1 beer cooler, 1 freezer on a dolly, 1 keg cooler on wheels.”

CONSTRUCTION SPECIFICATIONS GROUP

2. SPECIFICATION SECTION 028303 ABATEMENT OF LEAD CONTAINING MATERIALS:
Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 028303 – 1 thru 028303 – 13) noted “Revised 2/10/2015”.
3. Pages 095300-4 and 095300-5, Change Subparagraph 2.02 B. 2. to read:

“2 Acoustical Ceiling Unit (ACU) Type-2:
 - a. Basis of Design: Subject to compliance with requirements, provide the following acoustical ceiling unit, or comparable product: Tundra, as manufactured by Armstrong.
 - b. Size: 24 x 24 inches; thickness 5/8 inch.
 - c. Edges: 15/16” Beveled Tegular.
 - d. Item No: 303.”

ELECTRICAL SPECIFICATIONS GROUP

3. SPECIFICATION SECTION 265110 LIGHTING FIXTURES:
Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 265110 – 1 thru 265110 – 9) noted “Revised 2/10/2015”.

CONSTRUCTION WORK DRAWINGS

4. Drawing H-101, LEAD REMEDIATION, Note No.12, Change the last sentence of Note No.12 to read:

“REFER TO SPECIFICATION SECTION 011000, SUMMARY OF THE WORK”
5. Drawing H-101, LEAD REMEDIATION, Add Note No.22:

“22. ALL CONSTRUCTION PARTITIONS AT FIRE RESISTIVE ENCLOSURES AT MEANS OF EGRESS AND TEMPORARY ACCESS ENCLOSURES SHALL COMPLY WITH SECTION 015000-1.06, WITH THE EXCEPTION OF THE SEPARATION BETWEEN PHASE 3A AND 3B WORK AREAS, AND THE POLY BEING USED IN THE MEZZANINE AREA TO SEPARATE THE MEZZANINE AREA FROM THE DRILL HALL SPACE (ROOM 144). THE SEPARATION BETWEEN THE PHASE 3A AND 3B WORK AREAS AND BETWEEN THE MEZZANINE AREA AND THE DRILL HALL IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LEAD REMEDIATION NOTES 7-11 ON DRAWING H-101”.
6. Drawing A-104, CEILING NOTES, Add Note No.9:

“9. EXTEND REMOVAL AND REPLACEMENT OF EXISTING CEILING TILES IN CORRIDOR 001 ADJACENT TO ROOMS 124 AND 125 TO THE WEST OF PHASE 2 UNTIL THE FIRST BULKHEAD TO MATCH. ASSUME 400 SF OF CEILING TILES TO BE REMOVED AND PROVIDED”.
7. Drawing A-104, FIRST FLOOR RCP, Note No.1, Delete the last sentence of Note No.1:

“DAMAGED NON-FUNCTIONING EQUIPMENT SHALL BE REPLACED IN KIND AS REQUIRED”

8. Drawing D-101, DEMOLITION NOTES, Add Note Nos.16 and 17 :

“16. TEMPORARY DISCONNECT, REMOVE AND REINSTALL FOUR (4) CEILING MOUNTED PROJECTORS, LOCATED IN ROOM NOS. 116 AND 117.”

“17. THE EXISTING CARPET NOT IDENTIFIED TO BE REMOVED, IN ROOM NOS. 138B, 134, 134A, 134B, 133, AND 133A, SHALL BE PROTECTED WITH POLY AND CLEANED AT THE END OF PHASE.”

ELECTRICAL WORK DRAWINGS

9. Drawing E-102, DRAWING NOTES:

a. Change Note No. 1 to Read:

“1. IN ROOMS WHERE LIGHTING FIXTURES ARE SHOWN, REMOVE & REPLACE EXISTING FIXTURES AS INDICATED IN SPECIFICATION SECTION 265110. PROVIDE SCHEDULED LIGHTING FIXTURES IN LOCATIONS SHOWN ON THE PLAN. PROVIDE NEW WIRING, AND CONNECT TO EXISTING CIRCUIT”

b. Change Note No.2 to Read:

“2. IN ROOMS WHERE NO LIGHTING FIXTURES ARE SHOWN, RETROFIT EXISTING FIXTURES AS INDICATED IN SPECIFICATION SECTION 265110. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO REPLACEMENT OF LAMPS, BALLASTS, AND TOGGLE SWITCHES”

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 028303

ABATEMENT OF LEAD CONTAINING MATERIALS

PART 1 GENERAL

1.01 SUMMARY

- A. This Section specifies the requirements for protection of workers, prevention of lead dust, paint chips, or debris contamination of adjacent areas, performing lead-abatement, post-abatement cleaning, pre-disposal testing of removed materials, and appropriate disposal of removed materials.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Existing Hazardous Material Information: Document 003126.
- B. Summary of the Work: Section 011000.
- C. Construction Facilities and Temporary Controls: Section 015000.
- D. Removals, Cutting, and Patching: Section 017329.

1.03 REFERENCES

- A. New York State Department of Environmental Conservation (DEC) 6NYCRR:
 - 1. Part 360 Solid Waste Management Facilities.
 - 2. Part 364 Waste Transporter Permits.
 - 3. Part 370 Hazardous Waste Management System-General.
 - 4. Part 371 Identification and Listing of Hazardous Wastes.
 - 5. Part 372 Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities.
 - 6. Part 373 Hazardous Waste Management Facilities.
- B. New York State Department of Transportation (DOT): Follow all regulations of 49CFR Part 100 through 199.
- C. Occupational Safety and Health Administration (OSHA): Lead Exposure in Construction: Interim Final Rule 29 CFR 1926.62.
- D. U.S. Department of Housing and Urban Development (HUD): Guidelines for evaluation and control of Lead based paint hazards: Title Ten of Housing and Community Act of 1992.
- E. U.S. Environmental Protection Agency (EPA): Resource Conservation and Recovery Act (RCRA) Section 3004 Hazardous and Solid Waste Amendments.
- F. U.S. Environmental Protection Agency (EPA): Toxicity Characteristics Leaching Procedure EPA Method 1311.

1.04 DEFINITIONS

- A. Authorized Personnel: Facility or the Director's Representative, and all other personnel who are authorized officials of any regulating agency, be it State, Local, Federal or Private entity who possess legal authority for enforcement or inspection of the work.
- B. Containment: The enclosure within the building which establishes a contaminated area and surrounds the location where lead remediation is taking place and establishes a Lead Control Work Area.
- C. Surface Clearance Criteria: Shall be determined and established by an independent testing lab employed by the Director's Representative, conforming to all standards set forth by all authorities having jurisdiction, mentioned in the references. At a minimum no single post work lead wipe sample test values shall have reading levels greater than the levels established by pre-work wipe sampling test values, or greater than 200 micrograms/ft² in Occupied Areas or greater than 600 micrograms/ft² in Unoccupied Areas. Record levels in micrograms/ft².
- D. Fixed Object: Mechanical equipment, electrical equipment, fire detection systems, alarms, and all other fixed equipment, furniture, fixtures or other items which cannot be removed from the work area.
- E. HEPA: High Efficiency Particulate Absolute filtration efficiency of 99.97 percent down to 0.3 microns. Filtration provided on specialized vacuums and air filtration devices to trap particles.
- F. Lead Based Paint (LBP): Paints or other surface coatings that contain lead equal to or greater than 1.0 milligrams per square centimeter or 0.5 percent of lead by weight.
- G. Lead Dust: Elevated lead concentrations on surfaces caused by former Firing Range.
- H. Lead Dust Control Work Area: A cordoned off area with drop cloths or an enclosed area or structure with containment to prevent the spread of lead dust, or debris from lead removal operations.
- I. Occupied Area: Areas where building occupants may possibly come into contact with building surfaces and services on a daily basis. Includes all areas below fixed and suspended ceilings, all open areas lower than 12 feet above finished floor, and all mechanical areas and equipment.
- J. PPE: Personal Protective Equipment.
- K. Unoccupied Area: Areas where building occupants do not normally come into contact with building surfaces and services. Includes areas above fixed and suspended ceilings and all open areas higher than 12 feet above finished floor.

1.05 ABBREVIATIONS

- A. ASTM: American Society for Testing and Materials
1916 Race Street
Philadelphia, PA 19103
- B. CFR: Code of Federal Regulations
Government Printing Office
Washington, DC 20402
- C. DOT: Department of Transportation
Main Office, 50 Wolf Road
Albany, NY 12232
- D. NIOSH: National Institute for Occupational Safety and Health
Building J.N.E. Room 3007
Atlanta, Georgia 30333
- E. OSHA: Occupational Safety and Health Administration
200 Constitution Avenue
Washington, DC 20210
- F. USEPA: United States Environmental Protection Agency
401 M Street SW
Washington, DC 20460

1.06 SUBMITTALS

- A. Product Data: Catalog sheets, specifications, and application instructions for paint removal products, and all equipment used.
- B. Quality Control Submittals: Submit the entire Lead Abatement submittal package at the same time.
 - 1. Worker's Qualifications Data:
 - a. Name of each person who will be performing the Work and their employer's name, business address and telephone number.
 - b. Names and addresses of 3 similar projects that each person has worked on during the past 3 years and documentation of completion of the EPA lead renovators training program.
 - c. Name of lead supervisor on site during the work.
 - 2. Detailed Work Plan: Submit one copy of the work plan required under Quality Assurance Article.
 - 3. Waste Transporter Permit: One copy of transporter's current NYS DEC waste transporter permit.
- C. Operation and Maintenance Data: Submit air filtration unit operation and maintenance data and manufacturer's catalog sheets for the HEPA filter.
 - 1. Provide an affidavit stating that the HEPA filters to be used for this project are new and unused.

- D. Contract Closeout Submittals:
 - 1. Disposal Site Receipts: Copy of waste shipment record and disposal site receipt showing where the lead-containing materials have been properly disposed.

1.07 QUALITY ASSURANCE

- A. Worker's Qualifications: The persons performing lead abatement and their supervisor shall be personally experienced in lead abatement work and shall have been regularly employed by a company performing lead abatement for a minimum of 3 years.
- B. Regulatory Requirements: Comply with the referenced standards.
- C. Pre-Work Conference: Before the Work of this Section is scheduled to commence, a conference will be held by the Director's Representative at the Site for the purpose of reviewing the Contract Documents, discussing requirements for the Work, phasing the work and reviewing the Work procedures.
 - 1. The conference shall be attended by the Contractor, the lead removal subcontractor, and the testing laboratory employed by the Director.
- D. Detailed Lead-Containing Material Removal Work Plan: At the conclusion of the pre-work conference, before the physical lead abatement Work begins, prepare a detailed lead-containing material removal work plan.
 - 1. The work plan shall include, but not be limited to, a drawing indicating the location, size, and details of lead dust control work areas, location and details of containment, decontamination facilities, sequencing of lead removal, work procedures, types of equipment, waste separation, containerization procedures, disposal and crew size. Include emergency procedures for fire and medical emergencies.

1.08 PROJECT CONDITIONS

- A. Shut-down of Air Handling System: Complete the Work of this Section within the time limitation allowed for shut-down of the air handling system serving the work area.
 - 1. The air handling system will not be restarted until approval of the post-abatement tests following the last cleaning.
- B. Cover and seal all fin-tube radiator covers, diffusers, duplex outlets, speakers, smoke and heat detectors, etc. Use temporary plasticized partitions as required.
 - 1. Prevent lead containing dust from entering hard to clean areas within the dust containment area.
 - 2. Items judged to be too difficult to protect may be disconnected, removed and replaced at contractor's option.
- C. Remove or encase all movable equipment in the work area with two layers of six mil fire retardant polyethylene sheeting.

1.09 HEALTH AND SAFETY

- A. Where in the performance of the work, workers, supervisory personnel or sub-contractors may encounter, disturb, or otherwise function in the immediate vicinity of contaminated items and materials, all personnel shall take appropriate continuous measures as necessary to protect all ancillary building occupants from the potential lead exposure.
 - 1. Such measures shall include the procedures and methods described herein and shall be in compliance with all applicable regulations of Federal, State and Local agencies.

1.10 FIRE PROTECTION, EMERGENCY EGRESS AND SECURITY

- A. Establish emergency and fire exits from the lead dust control work area containment. Provide first aid kits and two full sets of protective clothing and respirators for use by qualified emergency personnel outside of the work area.
- B. Provide a logbook throughout the entire term of the project. All persons who enter the regulated lead dust control work area or containment shall sign the logbook. Document any intrusion or incident in the log book.

1.11 PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT

- A. Workers must wear protective suits, protective gloves, eye protection and a minimum of half-face respirator with new HEPA filter cartridge for all projects. Respiratory protection shall be in accordance with OSHA regulation 1910.134 and ANSI Z88.2.
- B. Workers must be trained as per EPA, OSHA and DOL requirements, have medical clearance and must have recently received pulmonary function test (PFT) and respirator fit tested by a trained professional.
 - 1. A personal air sampling program shall be in place as required by OSHA.
 - 2. The use of respirators must also follow a complete respiratory protection program as specified by OSHA.

PART 2 PRODUCTS

2.01 CONTAMINATION REMEDIATION PRODUCTS

- A. Chemical Removal Products: Provide products that will not produce noxious fumes and does not contain Methylene Chloride.
- B. Mechanical Removal: Provide UL 586 labeled, high efficiency particulate air (HEPA) filter system, and shrouded tools certified as being capable of trapping and retaining mono-dispersed particles as small as 0.3 micrometers at a minimum efficiency of 99.97 percent.

2.02 RESPIRATORS

- A. Type: Approved by the Mine Safety and Health Administration (MSHA), Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

2.03 VACUUM CLEANERS

- A. Type: Vacuums equipped with new HEPA filters.

2.04 PLASTIC SHEETS

- A. Type: Minimum 6 mil., clear, fire retardant polyethylene sheets.
- B. Floor Protective Layer: Minimum 10 mil., reinforced polyethylene sheets.

2.05 DISPOSAL BAGS

- A. Type: Minimum 6 mil thick, clear polyethylene bags with preprinted Caution Label. Properly containerize/drum prior to disposal.

2.06 EQUIPMENT

- A. Temporary lighting, heating, hot water heating units, ground fault interrupters, and all other equipment on site shall be UL listed and shall be safe, proper, and sufficient for the purpose intended.
- B. All electrical equipment shall be in compliance with the National Electric Code, Article 305 - Temporary Wiring.

PART 3 EXECUTION

3.01 NOTIFICATION

- A. Notify the Director's Representative a minimum of 5 working days prior to the start of any lead remediation work.

3.02 PRE-ABATEMENT WIPE TESTING

- A. The Director will employ the services of an independent testing laboratory to perform pre-abatement testing of surfaces within the lead dust control work area and areas adjacent to the lead dust control work area.
 - 1. The testing laboratory will be New York State Department of Health, Environmental Laboratory Approval Program certified (NYS ELAP).

3.03 EMPLOYEE PROTECTION

- A. Comply with all applicable Occupational Safety and Health Administration (OSHA) Requirements.

3.04 WORK AREA PROTECTION

- A. Lead Dust Control Work Area Requirements: Provide a lead dust control work area where lead-containing paint removal operations will be performed in accordance with the approved Work Plan.
- B. Protection of Existing Construction: Perform lead remediation work without damage or contamination of adjacent areas and existing construction.

3.05 LEAD-CONTAMINATED MATERIAL REMOVAL

- A. Perform removal of lead-contaminated materials in accordance with approved lead-containing material removal work plan.
 - 1. Use procedures and equipment as required to limit occupational and environmental exposure to lead when lead remediation is performed in accordance with referenced standards.
 - 2. Limit the production and dissemination of dust as much as possible.
 - 3. Perform manual wet methods to the maximum extent feasible.

3.06 POST-ABATEMENT WIPE TESTING

- A. The Director will employ the services of an independent testing laboratory to perform post-abatement testing of surfaces within the lead dust control work area, and areas adjacent to the lead dust control work area.
 - 1. The testing laboratory will be New York State Department of Health, Environmental Laboratory Approval Program certified (NYS ELAP).

3.07 CLEANING CRITERIA

- A. Cleaning criteria are as follows:
 - 1. All Occupied Areas: <200 micrograms of lead per square foot.
 - 2. All Unoccupied Areas: <600 micrograms of lead per square foot.
 - 3. In each area where the abatement has been performed, compare the post abatement wipe sample values with the targeted cleanup criteria. If any of the sample values exceed the cleanup criteria, clean again and schedule retesting until the lead levels are equal to or less than levels of <200 micrograms of lead per square foot in areas below the ceiling level or <600 micrograms of lead per square foot in areas above the ceiling level.

3.08 CERTIFICATION OF ABATEMENT

- A. Schedule dust wipe testing with the Director's Representative at the site, when work area is ready for clearance testing.
- B. Director's Representative will employ the services of an independent testing lab to perform clearance testing.
 - 1. Prior to removal of any isolation barrier, the Director's Representative will obtain a written affidavit and a final assessment report from the lab stating

that the tests conform to all standards set forth by all authorities having jurisdiction, mentioned in the references.

2. Schedule a walk-through inspection with the Director's Representative and obtain his written approval.
- C. The Director's Representative shall have final determination of an acceptable clearance level.

3.09 PRE-DISPOSAL TESTING

- A. Prior to disposal, the Director's Representative will employ the services of an independent testing lab to perform clearance testing of the removed materials for toxicity in accordance with EPA Method 1311, Toxicity Characteristic Leaching Procedure (TCLP).
1. Test results indicating a value greater than 5 ppm lead or 5mg/L classifies the removed material as Hazardous Waste.

3.10 DISPOSAL OF LEAD-CONTAINING MATERIAL AND RELATED DEBRIS

- A. Transport and dispose of lead-containing material classified as Hazardous Waste in accordance with the standards referenced in Part 1 of this Section.
- B. Transport and dispose of lead-containing material classified as Non-Hazardous Waste in accordance with standards referenced in Part 1 of this Section.

3.11 RESTORATION

- A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.
- B. Where existing construction is damaged or contaminated, restore work to its original condition or better.

**END OF SECTION
(except 5 pages that follow)**

SPEC SECTION # 028303 - EXISTING LIGHTING FIXTURE SCHEDULE

Floor	Location Description	Existing Fixture QTY *	Existing Fixture to be Removed by Construction Contractor
1	Main entrance	2	2x4 2 Lamp T8
1	Main Lobby	4	2x4 2 Lamp T8
1	Main Lobby	2	2x4 4 Lamp T12
1	Main Lobby	4	2x4 3 Lamp T8
1	Main Lobby	2	2x4 4 Lamp T12
1	Corridor	42	2x4 2 Lamp T8
1	Office 100	4	2x4 2 Lamp T8
1	Office 100A	4	2x4 2 Lamp T8
1	Office 101	4	2x4 2 Lamp T8
1	Office 101A	2	2x4 2 Lamp T8
1	Stairs at 102	2	2x4 2 Lamp T8
1	Office 102	6	2x4 2 Lamp T8
1	Office 102E	8	2x4 2 Lamp T8
1	Office 102F	8	2x4 2 Lamp T8
1	Office 103	12	2x4 2 Lamp T8
1	Office 103A	4	2x4 2 Lamp T8
1	Office 104	4	2x4 2 Lamp T8
1	Office 105	24	2x4 2 Lamp T8
1	Office 105A	4	2x4 2 Lamp T8
1	Office 106	24	2x4 2 Lamp T8
1	Office 106A	4	2x4 2 Lamp T8
1	Office 107	4	2x4 2 Lamp T8
1	Office 107A	2	2x4 2 Lamp T8
1	Office 107B	4	2x4 2 Lamp T8
1	Office 107C	4	2x4 2 Lamp T8
1	Conf. 109	8	2x4 2 Lamp T8
1	Office 110	16	2x4 2 Lamp T8

SPEC SECTION # 028303 - EXISTING LIGHTING FIXTURE SCHEDULE

Floor	Location Description	Existing Fixture QTY *	Existing Fixture to be Removed by Construction Contractor
1	Office 111	4	2x4 2 Lamp T8
1	Office 112	4	2x4 2 Lamp T8
1	State Shop 129	1	2x4 2 Lamp T12
1	Break Room 130	4	2x4 2 Lamp T12
1	ID Room - 127	2	2x4 2 Lamp T8
1	Recruiting - 126	4	2x4 2 Lamp T8
1	Womens - 125	4	2x4 4 Lamp T8
1	Office - 124	4	2x4 2 Lamp T8
1	Office - 124A	4	2x4 2 Lamp T8
1	PBO - 123	8	2x4 2 Lamp T8
1	Office - 122	2	2x4 2 Lamp T8
1	Office - 122A	2	2x4 2 Lamp T8
1	HQS-CO 121	9	2x4 4 Lamp T8
1	Womens - 120	4	2x4 2 Lamp T8
1	Locker - 120	7	2x4 2 Lamp T8
1	Corridor 120	2	2x4 2 Lamp T8
1	Gym - 118	14	2x4 4 Lamp T8
1	Mens - 118B	5	2x4 2 Lamp T8
1	Room - 117	15	2x4 4 Lamp T8
1	Room - 116	25	2x4 4 Lamp T8
1	Bar - 115	18	2x4 4 Lamp T8
1	Corrdior - 115	6	2x4 4 Lamp T8
1	Office - 140A	8	2x4 2 Lamp T8
1	Office - 140B	4	2x4 4 Lamp T12
1	141D	12	2x4 4 Lamp T8
1	141G	6	2x4 4 Lamp T12
1	Office - 133	12	2x4 2 Lamp T8

SPEC SECTION # 028303 - EXISTING LIGHTING FIXTURE SCHEDULE

Floor	Location Description	Existing Fixture QTY *	Existing Fixture to be Removed by Construction Contractor
1	Office - 134	9	2x4 2 Lamp T12
1	Break - 151	3	2x4 2 Lamp T12
1	Vehicle Wall Fixtures	6	2x4 4 Lamp T12
1	Office 102D	4	2x4 4 Lamp T8
1	Vehicle 145	14	1x8 2 8'Lamps T12 High Output
1	Drill entrance Exit	1	a new LED battery backup exit sign (side m
1	Corridor Exits	7	a new LED battery backup exit sign (side m
1	EXIT	1	a new LED battery backup exit sign (side m
1	Drill Hall	45	400 Watt Metal Halide
1	Vehicle 146	10	400 Watt Metal Halide
1	Vehicle 145	4	400 Watt High Pressure Sodium
1	Main Lobby	20	50 Watt Halogen
1	Kitchen 108	5	60 Watt Inc
1	HQS-CO 121	1	60 Watt Inc
1	Storage - 122B	1	60 Watt Inc
1	Shower - 120	4	60 Watt Inc
1	Showe - 118A	4	60 Watt Inc
1	Bar - 115	10	40 Watt Inc
1	Stairs	1	60 Watt Inc
1	Kitchen 108	10	1x4 2 Lamp T8
1	Womens - 125	5	1x4 2 Lamp T12
1	Womens - 120	2	1x4 2 Lamp T12
1	Mens- 118B	4	1x4 1 Lamp T12
1	141C	6	1x4 2 Lamp T12
1	Break room 142A	1	1x4 2 Lamp T8
1	Office - 138B	18	1x4 2 Lamp T12
1	Vehicle - Compressor	3	1x4 2 Lamp T8
1	Closet 131	1	1x4 2 Lamp T12
1	Storage - 113	5	1x4 2 Lamp T12
1	Storage - 119	1	1x4 2 Lamp T12
1	State Shop 129	5	1x4 2 Lamp T12
1	PBO - 136	2	1x4 1 Lamp T12
1	ID - 137	2	1x4 1 Lamp T12
1	Office - 138B	9	1x4 2 Lamp T12
1	Storage - 139	9	1x4 2 Lamp T12
1	Vault - 139A	18	1x4 2 Lamp T12
1	Vehicle Cages	10	1x4 2 Lamp T12
1	Drill entrance	3	1x4 2 Lamp T8

SPEC SECTION # 028303 - EXISTING LIGHTING FIXTURE SCHEDULE

Floor	Location Description	Existing Fixture QTY *	Existing Fixture to be Removed by Construction Contractor
1	Stairs at 102	2	1x4 2 Lamp T8
1	Storage 108A	1	1x4 2 Lamp T12
1	Pantry 108B	1	1x4 2 Lamp T12
1	Corridor by 130	3	1x4 2 Lamp T8
1	Food Service 132	2	1x4 2 Lamp T12
1	Corrdior - 115	3	1x4 2 Lamp T8
1	Office - 140	24	1x4 2 Lamp T8
1	Office - 140	2	1x4 2 Lamp T8
1	Office - 140A	2	1x4 2 Lamp T8
1	Open Area	15	1x4 2 Lamp T12
1	141B	4	1x4 2 Lamp T12
1	Conf. - 142	12	1x4 2 Lamp T12
1	Medical - 143	3	1x4 2 Lamp T8
1	Medical - 135	4	1x4 2 Lamp T12
1	Hall - 135	2	1x4 2 Lamp T8
1	Office Area - 147	16	1x4 2 Lamp T12
1	Food Service 132	2	1x8 4 4' Lamps T12
1	Vault - 138A	3	1x8 4 4' Lamps T12
1	Storage - 151	1	1x8 2 8'Lamps T12 High Output
1	Locker - 151	1	1x8 2 8'Lamps T12 High Output
1	Office 102A	4	2x4 2 Lamp T8
1	Office 102B	4	2x4 2 Lamp T8
1	Office 102C	3	2x4 3 Lamp T8
2nd Floor	Drill Hall Lockers	2	2x4 2 Lamp T8
2nd Floor	Drill Hall Lockers - stairs	1	2x4 2 Lamp T8
2nd Floor	Drill Hall Lockers - Mech Room	1	2x4 2 Lamp T8
B	B115		By Electrical Contractor
B	B115		By Electrical Contractor

SPEC SECTION # 028303 - EXISTING LIGHTING FIXTURE SCHEDULE

Floor	Location Description	Existing Fixture QTY *	Existing Fixture to be Removed by Construction Contractor
B	Storage - 115		By Electrical Contractor
B	B100	2	60 Watt Inc
B	B106	2	100 Watt Inc
B	RR - B112	2	1x4 2 Lamp T8
B	B102A	1	1x4 2 Lamp T8
B	B101A		By Electrical Contractor
B	Electrical Room - B100A		By Electrical Contractor
B	B107	14	2x4 2 Lamp T8
B	B108	9	2x4 2 Lamp T8
B	B109	8	2x4 2 Lamp T8
B	B110	8	2x4 2 Lamp T8
B	B111	12	2x4 2 Lamp T8
B	B111A	2	2x4 2 Lamp T8
B	RR - B112	2	2x4 2 Lamp T8
B	B113	5	2x4 2 Lamp T8
B	B113A	5	2x4 2 Lamp T8
B	B113B	5	2x4 2 Lamp T8
B	Office - B103	8	2x4 2 Lamp T8
B	Office - B104	4	2x4 2 Lamp T8
B	B105	6	2x4 2 Lamp T8
B	Corridor	16	2x4 2 Lamp T8
B	Office - B101	15	2x4 3 Lamp T8
B	B102A	1	2x4 2 Lamp T8
B	B102	3	2x4 2 Lamp T8
B	B102	3	2x4 4 Lamp T8
Exterior	Parking lot		By Electrical Contractor
Exterior	Exterior - Front		By Electrical Contractor
Exterior	Exterior - Front		By Electrical Contractor
Exterior	Walls		By Electrical Contractor
Exterior	Side entrance		By Electrical Contractor
Exterior	Perimeter		By Electrical Contractor
Exterior	Flag Poles		By Electrical Contractor
Exterior	Perimeter		By Electrical Contractor
Exterior	Perimeter	6	60 Watt Inc

* CONSTRUCTION CONTRACTOR SHALL REMOVE EXISTING 1st

** ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING

SECTION 265110

LIGHTING FIXTURES

PART 1 GENERAL

1.01 SUBMITTALS

- A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.
- B. Product Data: Catalog sheets, specifications and installation instructions, including:
 - 1. Technical information for each fixture that proves that its ballast meets specified requirements. Include data which proves proposed lamp and ballast combinations do not exceed specified total harmonic distortion.
 - 2. Candlepower distribution curves for each type fixture if different from Company or catalog number specified.
- C. Samples: One of each product if requested.
- D. Photometric reports: Perform photometric calculations of all spaces included in this project including a separate calculation for emergency lighting. Photometric reports shall include point to point footcandle 24"x 24" grid plan of each room, minimum, maximum, and average maintained footcandle values and light loss factors.
- E. Quality Control Submittals:
 - 1. List of Installations for Electronic Ballasts: If brand names other than those specified are proposed for use, furnish the name, address, and telephone number of at least 5 comparable installations which can prove the proposed products have operated satisfactorily for 1 year. The installations shall present a grand total of at least 5000 ballasts.

1.02 MAINTENANCE

- A. Special Tools:
 - 1. Two tools to remove and install each type and size of fasteners on fixtures equipped with vandal resistant fasteners.

PART 2 PRODUCTS

2.01 COMPONENT DESCRIPTIONS

- A. Ballasts:
 - 1. Electronic Ballasts: by GTE Sylvania, Advance Transformer Co., Universal Mfg Corp., or Valmont Electric, Inc. Dedicated, instant start, for 28W, T-8 lamps, high efficiency, normal power factor, Class P, Type

- 1, UL listed; GTE Sylvania ordering number QHE 1X32T8/UNV ISN-SC (1-lamp), QHE 2X32T8/UNV ISN-SC (2-lamp), QHE 4X32T8/UNV ISN-SC (4-lamp),
 - a. Total harmonic distortion not greater than 10 percent. Ballast and lamp combination shall match so that total harmonic distortion remains below specified percentage.
 - b. RFI and EMI in accordance with FCC Regulation CFR47 Part 18.
 - c. Reduced light output ballasts are unacceptable.
 - d. For lamp types for which electronic ballasts are not manufactured, furnish UL listed, high power factor, Class P ballasts to suit lamps and installation conditions; by Advance Transformer Co., Universal Mfg. Corp., or Valmont Electric Inc.
 2. -20 Degrees F Ballast: UL listed, high power factor, Class P ballasts to suit lamps and installation conditions, to start and operate lamps to -20 degrees F; by Sylvania, Advance Transformer Co., Universal Mfg. Corp., or Valmont Electric Inc.
 3. Specific Purpose Ballasts: UL listed, thermally protected, high power factor, to suit lamps and installation conditions; by Sylvania, Advance Transformer Co., Universal Mfg. Corp., or Valmont Electric Inc.
 4. Voltage rating to suit branch circuit voltage.
- B. Fluorescent Lamps: By General Electric Co., GTE/Sylvania, or Philips Lighting Co. Note: Unless otherwise indicated lamp designations in fixture descriptions are GTE/Sylvania OCTRON 800 XP Supersaver T8 Ecologic 3 lamps: GTE/Sylvania ordering number: FO28/841/XP/SS/ECO 3
- C. LED Lamps: By General Electric Co., GTE/Sylvania, or Philips Lighting Co. Note: Unless otherwise indicated lamp designations in fixture descriptions are General Electric Co.LED6/MR16/827/FL/BX (6W-230 lumen). Phillips Lighting 7A19/2700 medium base (8W-470 lumen).
- D. Labels: Equip each fixture with a label, located conspicuously inside of fixture, which states the type of lamps required for the fixture.
- E. Additional Components: Equip fixtures with the following additional components, as applicable:
1. Plaster frames as required for installation of recessed and semi-recessed fixtures.
 2. Safety clips for fixtures installed in grid ceilings.
 3. End caps for individually mounted fixtures and end of continuous row fixtures.
 4. Finishing collar or combination finishing collar/outlet box for surface mounted fixture used with exposed raceway:
 - a. Finishing Collar: Same finish and peripheral dimensions as the fixture base, including provisions for mounting, slots to fit over raceway and of depth to cover outlet box and extend back to ceiling or wall.
 - b. Combination Finishing Collar/Outlet Box: Same finish and peripheral dimensions as the fixture base, gage or thickness of

metal as required by National Electrical Code, including provisions for mounting and knockouts or threaded bosses for entrance of raceway.

2.02 LIGHTING FIXTURES

- A. Refer to section 265110 Luminaire Schedule, 265110 Lighting Replacement Schedule, and 265110 Lighting Retrofit Schedule for fixture types and requirements.

PART 3 EXECUTION

3.01 INSTALLATION

- A. General: Replace fixtures, switching, and wiring, provide new wiring, and retrofit existing fixtures indicated on the drawings and specified in section 265110 Lighting Replacement Schedule and section 265110 Lighting Retrofit Schedule.
- B. Finishing Collar or Combination Finishing Collar/Outlet Box (Surface Mounted Fixture Used With Exposed Raceway):
 - 1. Provide finishing collar where surface mounted fixture is installed on an exposed raceway outlet box and the fixture base is larger than the outlet box.
 - 2. Provide combination finishing collar/outlet box where surface mounted fixture is not indicated to be installed on an exposed raceway outlet box, but raceway cannot be run directly into fixture body due to fixture design.

**END OF SECTION
(Except 6 pages that follow)**

A. Products: Subject to compliance with requirements. Refer to 265110 for specific lamp and ballast information. Provide product indicated herein;

B. Colors: To be selected by Architect/Engineer from manufacturer's full range.

Tag	Type	Description	Lamps	Mfg./Cat. #	Input Watts	Notes	Mounting Height
F1	FL	Static Troffer 2x4 with prismatic acrylic lens	(2) T8 28W	Optimum Lighting/ OET D12 28 LI	56	T-bar ceiling	In Grid
F2	FL	4' long wrap around fixture w/ prismatic acrylic lens, high efficiency	(2) T8 28W	Optimum Lighting/ WE-2-28-LI	56	Direct mount to ceiling	
F3	FL	4' long wrap around fixture w/ prismatic acrylic lens, high efficiency	(1) T8 28W	Optimum Lighting/ WE-1-28-LI	56	Direct mount to ceiling.	
F4	LED	45"x 16" high bay fixture w/ aluminum chasis, specular reflector	199W LED	Lithonia I-beam LED/ IBL-18L-WD-277	199	18000 lumen output	Chain hung to match existing fixture height
F5	FL	4' long strip fixture	(1) T8 28W	Phillips/ SR 1-28-27-LI	28		Direct mount to ceiling
F6	LED	Small Wall Pack. Trapezoidal cast housing	(1) 30W LED	Maxlite / MLSWP30LED	30	2400 lumen output. Full cut-off	Wall mount at existing fixture location
F7	LED	Large floodlight w/ adjustable angle knuckle slip fitter	140W LED	Maxlite / MLFL140LED50	140		Mount on existing pole
F8	LED	10"x 19" garage fixture w/poly carbonate lens	60W LED	Maxlite / MLGAR60LED50	60	4200 lumen output	Ceiling mount at existing fixture location
F9	LED	Small wall pack	20W LED	Rab Lighting / WPLED20	20	1400 lumen output. Full cut-off	Wall mount at existing fixture location
F10	LED	Small floodlight w/ adjustable angle knuckle fitting	39W LED	Rab Lighting / FFLED39	39	2991 lumen output. Flag pole light	mount at existing fixture location
F11	LED	Medium floodlight w/ adjustable angle bracket	78W LED	Rab Lighting / FXLED78T	78	5927 lumen output.	mount at existing fixture location

F12	LED	Area Light w/ cast housing, adjustable angle knuckle slip fitter	__W LED	Ruud Lighting/ ARE-EDG-3M-AA	—		Mount on existing pole
F13	FL	8' L Enclosed Gasketed strip fixture	(2)T8 28W	Lithonia/ DOM6 LED 900L 277 DL61	56W		Ceiling mount at existing fixture location
F14	FL	8' L Enclosed Gasketed strip fixture	(4)T8 28W	Lithonia/ DOM6 LED 900L 277 DL61	112W		Ceiling mount at existing fixture location
F15	LED	A-Lamp Style Screw Base Lamp	(1) 8W LED	Phillips A-Shape 42348-3	8W	Replace existing A-Lamp	Existing Ceiling Fixture
EM	LED	2-head emergency light with integral ni-cad battery, self diagnostics, thermoplastic housing	(2) 12- white LED heads	Lithonia/ ELM2 LED	10W		Wall mount at 8' AFF
EX	LED	Exit sign with thermoplastic housing, red letters, , self diagnostics, directional chevrons	In- cluded	Lithonia/ LQM S W 1 R 120/277 EL N SD	1W	Single face	Wall mount at 8' AFF

SPEC SECTION # 265110 - LIGHTING REPLACEMENT SCHEDULE

Floor	Location Description	Existing Fixture Qty *	Existing Watts	Proposal Fixture Qty	Proposed Watts	Occupancy Sensor	Qty	Existing Description	Proposed Description
1	141	6	160	9	45			2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	141A	2	80	2	41	OSW-1G*	1	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	141B	4	80	4	41	OSW-1G*	1	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	141C	6	80	4	22			1x4 2 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	141D	12	112	12	45	OSC-2D	2	2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Bar - 115	18	112	14	45			2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Break - 151	3	80	3	45			2x4 2 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Break Room 130	4	80	4	45			2x4 2 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Conf. - 142	12	80	9	41	OSW-2G*	2	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Corridor	6	59	6	45			2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Corridor	6	61	6	41			1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Corridor	21	59	21	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Drill entrance	3	61	3	41			1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Drill Hall	45	458	45	199	FMS-120	1	400 Watt Metal Halide	Install new 199 Watt LED IBL fixture
1	Gym - 118	14	112	18	45	OSC-2D	2	2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Hall - 135	2	61	2	41			1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	HQS-CO 121	9	112	8	45	OSC-2D	2	2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	ID - 137	2	50	2	22	OSW-1G*	1	1x4 1 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Locker - 120	7	59	8	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Locker - 151	1	227	1	41			1x8 2 8'Lamps T12 High Output	Install a new 8' vapor tight fixture, 2 lamp low power instant start electronic ballast, white reflector, and (2) 4' 28 watt T8 lamps.
1	Medical - 135	4	80	4	41	OSW-2G*	2	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Medical - 143	3	61	3	41			1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Mens - 118B	5	59	6	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 122	2	59	3	45	OSW-1G*	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 122A	2	59	2	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 133	12	59	12	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 134	9	80	9	45			2x4 2 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 138	13	80	13	22			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Office - 138B	9	80	9	22			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Office - 140	24	61	13	41			1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 140A	8	59	8	45	OSW-1G*	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 140B	4	160	4	45	OSC-1D	1	2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office Area - 147	16	80	8	41			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.

SPEC SECTION # 265110 - LIGHTING REPLACEMENT SCHEDULE

Floor	Location Description	Existing Fixture Qty *	Existing Watts	Proposal Fixture Qty	Proposed Watts	Occupancy Sensor	Qty	Existing Description	Proposed Description
1	PBO - 123	8	59	8	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	PBO - 136	2	50	2	22	OSW-1GB*	1	1x4 1 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Room - 116	25	112	21	45	OSC-2D	2	2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Room - 117	15	112	12	45	OSC-2D	2	2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Shower - 118A	4	60	4	8			60 Watt Inc	Install a new 8 watt LED lamp, A-Shape Bulb.
1	Shower - 120	4	60	4	8			60 Watt Inc	Install a new 8 watt LED lamp, A-Shape Bulb.
1	State Shop 129	5	80	5	23			1x4 2 Lamp T12	Install a new 4' strip fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Storage - 113	5	80	4	23			1x4 2 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Storage - 119	1	80	2	23			1x4 2 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Storage - 139	13	80	13	22			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Storage - 139B	9	80	9	22			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Storage - 151	1	227	1	41			1x8 2 8'Lamps T12 High Output	Install a new 8' vapor tight fixture, 2 lamp low power instant start electronic ballast, white reflector, and (2) 4' 28 watt T8 lamps.
1	Vault - 138A	3	160	4	45			1x8 4 4' Lamps T12	Install a new 8' standard wrap fixture, 2 lamp low power instant start electronic ballast, white reflector, and (2) 4' 28 watt T8 lamps.
1	Vault - 139A	4	80	4	22			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Vehicle 145	14	227	14	96			1x8 2 8'Lamps T12 High Output	Install a new 8' standard wrap fixture, 4 lamp normal power instant start electronic ballast, white reflector, and (4) 4' 28 watt T8 lamps.
1	Vehicle 146	10	458	10	199			400 Watt Metal Halide	Install new 199 Watt LED IBL fixture
1	Womens - 120	4	59	3	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
B	B101A	2	140	2	22			1x4 4 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
B	B115	30	160	30	45			2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
B	B115A	2	89	2	45			2x4 3 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
B	Electrical Room - B100A	8	80	4	41	OSC-3D	3	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
B	Storage - 115	4	59	2	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
Exterior	Exterior - Front	7	60	7	34			60 Watt Inc	Install new 34 Watt LED wall pack fixture
Exterior	Exterior - Front	2	61	2	34			1x4 2 Lamp T8	Install new 34 Watt LED wall pack fixture
Exterior	Flag Poles	2	128	2	39			100 Watt Metal Halide	Install a new 39 watt LED Fixture.
Exterior	Parking lot	12	460	12	140			400 Watt High Pressure Sodium	Install a new 140 Watt LED flood fixture
Exterior	Perimeter	8	188	8	26			150 Watt High Pressure Sodium	Install a new 26 watt LED Fixture.
Exterior	Perimeter	2	295	2	78			250 Watt High Pressure Sodium	Install a new 78 Watt LED Flood Fixture
Exterior	Side entrance	3	56	3	34			1x2 2 Lamp T12	Install new 34 Watt LED wall pack fixture
Exterior	Walls	4	205	4	34			175 Watt Metal Halide	Install new 34 Watt LED wall pack fixture

* EC SHALL REMOVE EXISTING EQUIPMENT AS NECESSARY FOR RETROFIT

** EC SHALL REMOVE EXISTING WALL TOGGLE SWITCH(ES) AS NECESSARY TO INSTALL PROPOSED SENSOR WALL SWITCH(ES)

SPEC SECTION # 265110 - LIGHTING RETROFIT SCHEDULE

Floor	Location Description	Existing Fixture Qty *	Existing Watts	Proposal Fixture Qty	Proposed Watts	Occupancy Sensor	Qty	Existing Description	Proposed Description
1	Break room 142A	1	61	1	22			1x4 2 Lamp T8	Retrofit with a 1 lamp high performance low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Closet 131	1	80	1	23			1x4 2 Lamp T12	Retrofit with a 1x4 reflector kit, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Food Service 132	2	23	1	41			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	HQS-CO 121	1	60	1	8			60 Watt Inc	Re-lamp with a new 8 watt LED lamp, A-Shape Bulb.
1	ID Room - 127	2	59	1	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Pantry 108B	1	80	1	41	OSW-1G**	1	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Stairs	1	60	1	8			60 Watt Inc	Re-lamp with a new 8 watt LED lamp, A-Shape Bulb.
1	Storage - 122B	1	60	1	8			60 Watt Inc	Re-lamp with a new 8 watt LED lamp, A-Shape Bulb.
1	Storage 108A	1	80	1	41	OSW-1G**	1	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Food Service 132	2	160	2	45	OSC-1D	1	1x8 4 4' Lamps T12	Install a new 8' standard wrap fixture, 2 lamp low power instant start electronic ballast, white reflector, and (2) 4' 28 watt T8 lamps.
1	Main entrance	2	59	2	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Main Lobby	2	160	2	45			2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Main Lobby	2	160	2	45			2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 101A	2	59	2	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 107A	2	59	2	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Stairs at 102	2	59	2	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Stairs at 102	2	61	2	41			1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Womens - 120	2	80	2	22			1x4 2 Lamp T12	Retrofit with a 1 lamp high performance low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Office 102C	3	89	3	45	OSW-1G	1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast, and (2) 4' 28 watt T8 lamps.
1	Vehicle - Compressor	3	61	3	22			1x4 2 Lamp T8	Retrofit with a 1 lamp high performance low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Conf. 109	8	118	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Main Lobby	4	59	4	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Main Lobby	4	89	4	45			2x4 3 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Mens- 118B	4	50	4	22			1x4 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Office - 124	4	59	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office - 124A	4	59	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 100	4	59	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 100A	4	59	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 101	4	59	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 102A	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast, and (2) 4' 28 watt T8 lamps.
1	Office 102B	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast, and (2) 4' 28 watt T8 lamps.
1	Office 102D	4	112	4	86	OSC-1D	1	2x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start electronic ballast, and (4) 4' 28 watt T8 lamps.
1	Office 103A	4	59	4	45	OSW-1G**	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.

SPEC SECTION # 265110 - LIGHTING RETROFIT SCHEDULE

Floor	Location Description	Existing Fixture Qty *	Existing Watts	Proposal Fixture Qty	Proposed Watts	Occupancy Sensor	Qty	Existing Description	Proposed Description
1	Office 104	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 105A	4	59	4	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 106A	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 107	4	59	4	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 107B	4	59	4	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 107C	4	59	4	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 111	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 112	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Recruiting - 126	4	59	4	45	OSW-1G	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Womens - 125	4	112	4	45			2x4 4 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Kitchen 108	5	60	5	8			60 Watt Inc	Re-lamp with a new 8 watt LED lamp, A-Shape Bulb.
1	Womens - 125	5	80	5	22	OSW-1G	2	1x4 2 Lamp T12	Retrofit with a 1 lamp high performance low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Office 102	6	59	6	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Vehicle Wall Fixtures	6	160	6	45			2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 102E	8	59	8	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 102F	8	59	8	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 110	16	118	8	45	OSC-2D	2	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Bar - 115	10	40	10	8			40 Watt Inc	Re-lamp with a new 8 watt LED lamp, A-Shape Bulb.
1	Kitchen 108	10	61	10	22			1x4 2 Lamp T8	Retrofit with a 1 lamp high performance low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Vehicle Cages	10	80	10	22			1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start electronic ballast, and (1) 4' 28 watt T8 lamp.
1	Office 103	12	59	12	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Main Lobby	20	50	20	6			50 Watt Halogen	Relamp with a new 6 watt LED MR16 Lamp
1	Corridor	22	59	22	45			2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 105	24	59	24	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.
1	Office 106	24	59	24	45	OSC-1D	1	2x4 2 Lamp T8	Install a new 2x4 prismatic recessed fixture, 2 lamp high performance low power instant start electronic ballast, white reflector and (2) 4' 28 watt T8 lamps.

* EC SHALL REMOVE EXISTING EQUIPMENT AS NECESSARY FOR RETROFIT

** EC SHALL REMOVE EXISTING WALL TOGGLE SWITCH(ES) AS NECESSARY TO INSTALL PROPOSED SENSOR WALL SWITCH(ES)