

SECTION 00 31 46
PERMITS

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10
11 **PART 1 – GENERAL**

12
13 **1.1. SUMMARY**

- 14 A. Each project has varying requirements for permits, inspections, and fees based on the scope, size, and location of
15 the project.
16 B. The City of Madison (Owner) is subject to all permits, inspections and associated fees for construction,
17 demolition, utility connection, storm water management, and other similar requirements that may be required
18 to complete the scope of work associated with these contract documents.
19 C. The General Contractor (GC) shall be responsible for obtaining all permits, inspections and paying for all
20 associated fees unless specifically identified within this specification.
21

22 **1.2. REFERENCES**

- 23 A. The following references are not intended to be all inclusive. It shall be the GC’s responsibility to determine all
24 requirements based on the scope of work in the contract documents.
25 B. City of Madison Ordinances: Review all ordinances that may require a permit or fee that may be connected with
26 a required permit. Contact the following City Agencies to determine the exact requirements during bidding
27 1. Building Inspection
28 2. Zoning
29 3. Engineering
30 4. Water Utility
31 5. Traffic Engineering
32 6. Others as may be specified by the contract documents.
33 C. State Statutes
34 D. Other Regulatory Regulations
35 E. Other Agencies or companies that may have related requirements
36 1. Madison Metropolitan Sewerage District
37 2. Local gas and electric utility companies
38 3. Other utility companies
39

40 **1.3. GENERAL CONTRACTORS REQUIREMENTS**

- 41 A. The GC shall be responsible for all of the following:
42 1. Execute application for all required permits as may be required by the scope of work described within the
43 contract documents.
44 2. Paying all fees associated with the application of any required permits.
45 3. Scheduling all required inspections that may be conditions of any required permits.
46 B. The GC shall provide high quality scanned images of all required permits and inspections and upload them to the
47 Contract Documents-Regulatory Documents Library on the Project Management Web Site.
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49 **PART 2 – PRODUCTS – THIS SECTION NOT USED**

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51 **PART 3 – EXECUTION – THIS SECTION NOT USED**

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55 **END OF SECTION**
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**SECTION 01 32 33
PHOTOGRAPHIC DOCUMENTATION**

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PART 1 – GENERAL

1.1. SCOPE

- A. The General Contractor (GC) shall be required to take digital photographs of adjacent properties before and after demolition is complete to provide a benchmark for any potential restoration requirements.

PART 2 – PRODUCTS - THIS SECTION NOT USED

PART 3 - EXECUTION

3.1. REQUIREMENTS FOR DIGITAL PHOTOGRAPHS

- A. All digital photographs shall be taken with a good quality digital camera, cell phone, tablet, and other such digital device.
- B. Digital photographs shall be properly zoomed in/out to capture a specific level of detail as necessary.
- C. Digital photographs shall be formatted to achieve a good, clear, and detailed image where the final file size is between 600 KB and 1.2 MB (1200KB).
- D. The camera default naming convention is acceptable. The GC does not need to rename or specifically identify pictures in the title.
- E. All digital photographs shall be saved in a JPEG (.jpg) format.

3.2. PICTURE CONTENT

- A. The GC shall take perimeter photographs of all of the following:
 - 1. Metro Bus stop.
 - 2. Sidewalks, every 20 feet (+/-), both streets with sufficient detail and repetitiveness to capture existing defects. Mark the sidewalk so end of contract photo can be taken from approximately the same position.
 - 3. Adjacent Property (213 N First St).
 - a. Asphalt driveway particularly the edge along the demolition area.
 - b. House, driveway side once from each corner
 - c. Garage, property line side, once from each corner and one of the roof
 - 4. Adjacent Property (Parks Division Open Space) sufficient photos of the area to be used for project access

3.3. DOCUMENTATION

- A. The GC shall provide the Project Manager with a single PDF compilation of all photographs, before and after the contract.
- B. Before photographs will be used to determine if any restoration will be required on any adjacent properties.

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

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PART 1 – GENERAL

1.1. SUMMARY

- A. This Section includes general procedural requirements for temporary facilities and controls including, but not limited to the following:
1. Temporary Utilities
 2. Barriers
 3. Fencing
 4. Exterior Enclosures
 5. Security
 6. Vehicular Access and Parking
 7. Waste Removal
 8. Project Identification

1.2. QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations if authorities having jurisdiction, including but not limited to:
1. Building Code requirements
 2. Health and safety regulations
 3. Utility company regulations
 4. Police, Fire Department and Rescue Squad rules
 5. Environmental protection regulations
 6. Joint Commission - Hospital Accreditation Standards
- B. Standards: Comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations," ANSI A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA Electrical Design Library "Temporary Electrical Facilities".
- C. Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service in compliance with NFPA 70 "National Electric Code".

1.3. TEMPORARY UTILITIES

- A. General:
1. Existing facilities (gas, water, electric) have been disconnected and are not available.
- B. Contractor shall provide the following:
1. Electrical power consisting of portable facilities.
 2. Water supply, consisting of portable facilities.

1.4. FENCING

- A. Construction: Contractor shall at a minimum install orange construction fence and pickets around the demolition site until backfill operations have been completed. At the Contractors option portable chain link fence panels are allowed.

1
2 **1.5. VEHICULAR ACCESS AND PARKING**

- 3 A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for
4 emergency vehicles.
5 B. Coordinate access and haul routes with governing authorities and Owner.
6 C. Provide and maintain access to fire hydrants, free of obstructions.
7

8 **1.6. WASTE REMOVAL**

- 9 A. See Section 01 74 19 – Construction Waste Management, for additional requirements.
10 B. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
11

12 **PART 2 - PRODUCTS**

13
14 **2.1. EQUIPMENT**

- 15 A. Temporary Lifts and Hoists: Contractors requiring temporary lifts and hoists shall provide facilities for hoisting
16 materials and employees.
17 B. Electrical Power Cords: Contractors requiring power cords shall provide grounded extension cords; use "hard-
18 service" cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate
19 lengths of electric cords, if single lengths will not reach areas where construction activities are in progress. Do
20 not exceed safe length-voltage ratio.
21 C. Lamps and Light Fixtures: Electrical Contractor shall provide general service incandescent lamps of wattage
22 required for adequate illumination. Provide guard cages or tempered glass enclosures, where exposed to
23 breakage. Provide exterior fixtures where exposed to moisture.
24 D. First Aid Supplies: General Contractor shall provide first aid supplies complying with governing regulations.
25 E. Fire Extinguishers: General Contractor shall provide hand-carried, portable UL-rated, fire extinguishers of NFPA
26 recommended classes for the exposures, extinguishing agent and size required by location and class of fire
27 exposure.
28

29 **PART 3 - EXECUTION**

30
31 **3.1. TEMPORARY FIRE PROTECTION**

- 32 A. Comply with NFPA 10 "Standard for Portable Fire Extinguishers," and NFPA 241 "Standard for Safeguarding
33 Construction, Alterations and Demolition Operations".
34 B. Locate fire extinguishers where convenient and effective for their intended purpose.
35 C. Store combustible materials in containers in fire-safe locations.
36 D. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities, and access
37 routes for fighting fires.
38 E. Prohibit smoking on the premises.
39 F. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition
40 according to requirements of authorities having jurisdiction.
41 G. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site
42 H. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods
43 and procedures. Post warnings and information.
44

45 **3.2. COLLECTION AND DISPOSAL OF WASTE**

- 46 A. Collect waste from construction areas and elsewhere daily
47 B. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce
48 requirements strictly.
49 C. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to
50 rise above 80 deg F.
51 D. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing
52 properly. Dispose of material in a lawful manner.
53

54 **3.3. ENVIRONMENTAL PROTECTION**

- 55 A. Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply
56 with environmental regulations, and minimize the possibility that air, waterways and subsoil might be
57 contaminated or polluted, or that other undesirable effects might result.
58 B. Avoid use of tools and equipment which produce harmful noise.

- 1 C. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons or firms
- 2 near the site.
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END OF SECTION

SECTION 01 74 19
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

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20

PART 1 – GENERAL

1.1. SUMMARY

- 24 A. This specification includes administrative and procedural requirements for the recycling, re-use, salvaging, and
25 disposal of non-hazardous construction and demolition waste.
26 B. The General Contractor (GC) shall be fully responsible for complying with all applicable ordinances and other
27 such regulatory requirements during the execution of this contract.
28

1.2. RELATED SPECIFICAITONS

- 30 A. Other Specifications that may address the proper disposal of construction or demolition waste as it pertains to
31 work being conducted under that particular specification.
32

1.3. CITY ORDINANCES

- 34 A. There are two (2) Madison General Ordinances (MGO) that the City of Madison has regarding construction and
35 demolition waste.
36 1. MGO 10.185, Recycling and Reuse of Construction and Demolition Debris, describes the requirements
37 associated with this ordinance including definitions, documentation requirements, and penalties.
38 2. MGO 28.185, Approval of Demolition (Razing, Wrecking) and Removal, describes the requirements
39 associated with applying for and receiving a demolition permit.
40 B. All City of Madison, Board of Public Works, contracts being conducted by City Engineering, Facility Management,
41 for construction, remodeling, or demolition shall comply with the above ordinances regardless of project type or
42 size.
43

1.4. DEFINITIONS

- 45 A. Clean: Untreated and unpainted material, free of contamination caused by oils, solvents, caulks, and other
46 chemicals.
47 B. Construction and Demolition Debris: Materials resulting from the construction, remodeling, repair, and
48 demolition of utilities, structures, buildings, and roads.
49 C. Disposal: Off-site removal of construction and demolition debris and the subsequent sale, recycling, reuse, or
50 deposit in authorized landfill or incinerator.
51 D. Hazardous: Exhibiting the characteristics of hazardous substance, i.e. ignitability, corrosiveness, toxicity, or
52 reactivity and including but not limited to asbestos containing materials, lead, mercury and PCBs.
53 E. Non-hazardous: Exhibiting none of the characteristics of a hazardous substance.
54 F. Nontoxic: Not immediately poisonous to humans or poisonous after a long period of exposure.
55 G. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured
56 into a new product.

- 1 H. Recycle: Any process by which construction or demolition debris is diverted from final disposal as solid waste at
2 a permitted landfill and instead is collected, separated, and/or processed into raw materials for new, reused, or
3 reconstituted products; or for the recovery of materials for energy production processes.
- 4 I. Recycler: Any recycling facility, transfer station, or other waste handling facility which accepts construction and
5 demolition debris for recycling, or for other transferring to a recycling facility.
- 6 J. Recycling: The process of sorting, cleaning, treating, or reconstituting solid waste and other discarded materials
7 for the purpose of preparing the material to be recyclable. Recycling does not include burning, incinerating or
8 thermally destroying waste.
- 9 K. Return: To give back reusable items or unused products to vendors for credit.
- 10 L. Reuse: Shall mean any of the following:
- 11 1. The on-site use of reprocessed construction and demolitions debris.
- 12 2. The off-site redistribution of a material, for use in the same manner or similar manner at another
13 location.
- 14 3. The use of non-toxic, clean wood as an alternative fuel source.
- 15 M. Salvage: To remove a waste material from the project site for resale or reuse by the Owner or others.
- 16 N. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- 17 O. Trash: Any product or material unable to be re-used, returned, recycled, or salvaged.
- 18 P. Waste: Extra materials or products that have reached the end of its useful life or its intended use. Waste
19 includes salvageable, returnable, recyclable and re-useable construction and demolition materials, and trash.
20

21 1.5. PERFORMANCE REQUIREMENTS

- 22 A. The GC shall develop a Waste Management Plan that results in end-of-project rates for salvage/recycling/reuse
23 of 75 percent (minimum) by weight of the total waste generated by the Work. Percentages may be adjusted on
24 a project by project basis.
- 25 B. The GC shall salvage or recycle 100 percent of all uncontaminated packaging materials including but not limited
26 to the following:
- 27 1. Paper
- 28 2. Cardboard
- 29 3. Beverage containers
- 30 4. Boxes
- 31 5. Plastic Sheet and film
- 32 6. Polystyrene packaging
- 33 7. Wood crates and pallets
- 34 8. Plastic pails and buckets
- 35 C. Use all reasonable means to divert construction waste from landfills and incinerators through recycling, reuse, or
36 salvage as appropriate.
37

38 1.6. SUBMITTALS AND DELIVERABLES

- 39 A. The GC shall provide his/her completed Waste Management Plan to the City Project Manager as a submittal for
40 review.
- 41 B. The Waste Management Coordinator shall provide copies of items 1 through 5 below to the City Project
42 Manager and shall update the Waste Management Summary Log to reflect the records being submitted.
- 43 1. Records of Donations: Indicate receipt and acceptance of itemized salvageable waste donated to
44 individuals or organizations. Indicate if the organization is tax exempt.
- 45 2. Records of Sales: Indicate receipt and acceptance of itemized salvageable waste sold to individuals or
46 organizations. Indicate if the organization is tax exempt.
- 47 3. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by
48 recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts and
49 invoices.
- 50 4. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and
51 incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts and invoices.
- 52 5. Statement of Refrigerant Recovery: The Refrigerant Recovery Technician responsible for recovering
53 refrigerant shall provide the GC with a statement indicating all of the following:
- 54 a. All recovery was performed according to EPA Regulations.
- 55 b. All refrigerant present was recovered; indicate the total quantity recovered by unit.
- 56 c. Date of Recovery.
- 57 d. Name, address, company name, and phone number of technician performing the recovery.
- 58 e. Technician shall sign and date the statement.

1 **1.7. QUALITY ASSURANCE**

- 2 A. Waste Management Coordinator: The GC shall be responsible for designating a Waste Management
3 Coordinator. Coordinator may be the GC Supervisor, GC Project Manager or other member of the GC staff
4 having knowledge of proper waste management procedures and all applicable regulations.
5 B. Regulatory Requirements: comply with all hauling and disposal regulations of authorities having jurisdiction.
6 C. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program.
7

8 **1.8. WASTE MANAGEMENT PLAN**

- 9 A. Develop a plan consisting of waste identification. Indicate quantities by weight or volume. Use the same units of
10 measure throughout the waste management plan.
11 1. Waste Identification: Indicate anticipated types and quantities of site clearing, demolition waste, and
12 construction waste that will be generated during the execution of this contract. Include assumptions for
13 the estimates.
14 2. Identify what types of materials will be recycled. Provide lists of local companies that receive and/or
15 process the materials. Include names, addresses, and phone numbers.
16 3. Identify what types of materials will be disposed of and whether it will be disposed of in a landfill facility
17 or by incineration facility. Provide lists of local companies that receive and/or process the materials.
18 Include names, addresses, and phone numbers.
19 4. Identify methods to be used on site for separating waste including all of the following:
20 a. Sizes of containers to be used.
21 b. Labels to be used on the containers to identify the type of waste allowed in the container.
22 c. Designated locations on the project site for waste material containers.
23 B. Incorporate the ordinance required (MGO 28.185) Recycling and Reuse Plan into the Waste Management Plan
24 (Exhibit D).
25 D. If at the option of the GC, he/she chooses to contract with a waste management disposal company that allows
26 comingled and unsorted waste materials, the GC shall include with his/her Waste Management Plan the
27 following:
28 1. Name, address, phone number, state permitting information, and other pertinent information about the
29 disposal company.
30 2. Documentation from the disposal company indicating company policies and procedures regarding
31 comingled and unsorted waste materials to include:
32 a. GC responsibilities on the project site.
33 b. Disposal company procedures for receiving, sorting, recycling, and disposing of comingled and
34 unsorted waste material.
35

36 **PART 2 – PRODUCTS – THIS SECTION NOT USED**

37
38 **PART 3 - EXECUTION**

39
40 **3.1. PLAN IMPLEMENTATION**

- 41 A. Implement the approved waste management plan. Provide adequate containers, storage space, signage,
42 transportation and other items required to implement the plan during the execution of this contract.
43 B. Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways,
44 and other adjacent and used facilities.
45 1. Designate and label specific areas on the project site necessary for separating materials to be salvaged,
46 recycled, reused, donated, and sold.
47 2. Comply with any specification or regulatory requirements pertaining to dust, dirt, environmental
48 protection, and noise control.
49

50 **3.2. HAZARDOUS AND TOXIC WASTE**

- 51 A. The Contractor shall be responsible under this contract for the removal of any asbestos related materials. All
52 other materials shall be removed by the GC.
53 B. All hazardous and toxic waste shall be separated, stored, and disposed of according to all applicable regulations.
54 C. All hazardous and toxic materials on site shall have a Material Safety and Data Sheet (MSDS) available that
55 indicates storage requirements, emergency information, and disposal requirements as necessary.

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3.3. GENERAL GUIDELINES FOR ALL WASTES

- A. Recycle all paper and beverage containers used by workers, sub-contractors, suppliers and visitors to the project site.
- B. All revenues, savings, rebates, tax credits, and other such incentives received from recycling, reusing, or salvaging waste materials shall accrue to the GC unless specified otherwise in the contract documents.
- C. Separate recyclable, reusable, and salvageable waste from other waste materials, trash, and debris except where waste management disposal company allows comingled waste materials, see section 1.8.D above.
 - 1. Separate by type in appropriate containers or designated areas according to the approved waste management plan away from the construction area. Do not store within the drip lines of existing trees.
 - 2. Inspect containers and bins frequently for contamination and inappropriately sorted materials. Remove contaminated materials and resort as necessary.
 - 3. Stockpile bulk materials such as sand, topsoil, stone, etc., on site away from the construction area and without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water, and cover to prevent windblown dust. Do not store within the drip lines of existing trees.

3.4. GUIDELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE

- A. The following guidelines is not a complete or all inclusive list and shall be adjusted as needed by the methods and procedures identified in the Waste Management Plan.
- B. Asphalt Paving: Break-up into transportable pieces or grind, transport to an authorized recycling facility.
- C. Carpet and Pad: Separate carpet and pad scraps, containerize and transport to an authorized recycling facility.
- D. Ceiling System Components: Suspended ceiling system components shall be sorted by material type as follows:
 - 1. Broken, cut, or damaged tiles shall be containerized, transport to an authorized recycling facility.
 - 2. Damaged, or cut tracks, trim and other metal grid system components shall be sorted with other metals of similar types, palletize, transport to an authorized recycling facility.
- E. Clean Wood Materials: Including but not limited framing cutoffs, wood sheathing or paneling materials, structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils, preservatives and other such contaminants.
 - 1. Wood materials shall be containerized, transport to an authorized recycling facility.
- F. Concrete: Break-up into transportable pieces, remove all reinforcing and other metals, transport to an authorized recycling facility.
- G. Glass Products: Shall be sorted by types, do not include light fixture lamps and bulbs. Products broken in shipment shall be returned to the supplier. Broken or cracked items still in frames shall be taped to prevent further breakage and injury to workers. Transport to an authorized recycling facility.
- H. Light Fixture Lamps and Bulbs: Fluorescent tubes shall be containerized, transport to an authorized recycling facility.
- I. Masonry and CMU: Remove all metal reinforcing, anchors, and ties, clean undamaged pieces and neatly stack on pallets, transport damaged pieces to an authorized recycling facility.
- J. Metals: Sort metals by type as follows, this does not include piping:
 - 1. Architectural metals including but not limited to siding, soffit, and roofing panels shall be sorted by material, transport to an authorized recycling facility.
 - 2. Structural steel, transport to an authorized recycling facility.
 - 3. Miscellaneous metals such as aluminum, brass, bronze, etc shall be sorted by type, containerized or palletized as necessary, transport to an authorized recycling facility.
- K. Piping and conduit: Reduce all piping and conduit to straight lengths, sort by material and type. Remove supports, hangers, valves, boxes, sprinkler heads, and other such components, sort and store by size, material and type. Transport to authorized recycling facilities according to material types.
- L. Roofing: Roofing materials on the house and shed are considered in part contain asbestos. The contractor should dispose of according to the appropriate disposal requirements for the type and level described in the Asbestos Testing Report (Exhibit C).
- M. Site-Clearing Waste: Sort all site waste by type.
 - 1. Only stockpile soils types and quantities required for re-use on the project site. All remaining quantities shall be transported off site to an authorized facility that receives such materials.
 - 2. Brush, branches, and trees with no marketable re-use shall be transported to facilities for chipping into mulch. At the Contractors option all tree and brush material may be taken to the Waste Transfer Station on E. Olin Ave. The Contractor shall be responsible for the tipping fee of \$34.00 per ton. Contractor will need to show proof he is working on a city contract at a city owned address before being allowed on the scale.

**SECTION 01 76 00
PROTECTING INSTALLED CONSTRUCTION**

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16

PART 1 – GENERAL

1.1. SUMMARY

- 19
20 A. The purpose of this specification is to provide clear responsibilities, guide lines, and requirements related to
21 providing protection to already installed construction.
22 B. Already installed construction shall include but not be limited to the following:
23 1. Any existing site feature such as pavement, curbs, drainage features, utilities, landscaping features (trees,
24 shrubbery, plantings, flagpoles, etc) and other such exterior items not associated with the building
25 whether on or adjacent to the project site.
26 2. Any existing structure on or adjacent to the project site.
27 3. Any existing feature of any kind within the public right-of-way that may be on the project site property,
28 adjacent to the project site or across the street from the project site.
29 C. The requirements noted within this specification do not relieve any contractor of the responsibility for
30 compliance with any code, statute, ordinance, or other such regulatory requirement having jurisdictional
31 authority over these contract documents.
32

1.2. QUALITY ASSURANCE

- 33
34 A. It shall be the responsibility of every contractor and worker assigned to the project to be diligent in protecting all
35 existing work.
36 B. It shall be the General Contractors' (GC) responsibility under the contract to provide all reasonable protection
37 methods, materials, or precautionary measures required to protect existing construction as described within this
38 specification to the project as a whole.
39 1. The GC shall be responsible to ensure any damaged new or existing construction is repaired or replaced
40 at no additional cost to the Contract.
41

1.3. RELATED SPECIFICATIONS

- 42
43 A. Parts of this specification will reference articles within "The City of Madison Standard Specifications for Public
44 Works Construction".
45 1. Use the following link to access the Standard Specifications web page:
46 <http://www.cityofmadison.com/business/pw/specs.cfm>
47 a. Click on the "Part" chapter identified in the specification text. For example if the specification
48 says "Refer to City of Madison Standard Specification 210.2" click the link for Part II, the Part II
49 PDF will open.
50 b. Scroll through the index of Part II for specification 210.2 and click the text link which will take you
51 to the referenced text.
52 c. City Standard Detail Drawings (SDD) may be located from the index in Part VIII.
53

PART 2 - PRODUCTS

1 **2.1. FENCING MATERIALS AND BARRICADES**

- 2 A. Except where noted in other areas of the construction documents the responsible contractor may provide any of
3 the following that sufficiently provide a sturdy physical barrier and/or visual barrier as necessary for the
4 intended application.
5 1. Standard orange construction barrels each with a standard rubber base ring and reflective tape
6 a. Provide flashing amber lights as needed to increase night time visibility
7 2. Steel "T" style fence posts
8 3. 4'0" high standard orange construction fence
9 4. Traffic barricades
10 5. Jersey barriers
11 6. Other types of fencing or barricades typically used in the construction industry
12 B. The contractor responsible for providing the fencing materials and barricades shall also be responsible for
13 maintaining them. This shall include but not limited to fixing damaged fencing, standing up barrels that have
14 been knocked over, realigning barrels, and ensuring flashing lights are fully operational at all times.
15 C. The following fencing and barricade designations, and their use descriptions shall be used throughout this
16 specification to provide uniformity in describing protection requirements.
17 1. Type A, Jersey Barriers, to be used as permanent blocking devices to deny access to alternate project site
18 entrances or exits.
19 2. Type B, Traffic Barricades, to be used as temporary blocking devices to deny access to alternate project
20 site entrances or exits.
21 3. Type C, Construction Barrels without construction fencing shall be used for lane closures, temporary
22 blocking devices to deny access and the protection of single locations (I.E. identify the location of an
23 access structure) that do not require fencing.
24 4. Type D, Construction Barrels with construction fencing where it becomes necessary to surround an object
25 with a complete visual barricade and it is impractical or unacceptable to install fence posts. The surround
26 shall be constructed in such a manner as to provide a buffer zone around and access to the item being
27 protected.
28 5. Type E, Steel "T" Fence Posts with construction fencing to surround an object with a complete visual
29 barricade and it is practical to install fence posts. The surround shall be constructed in such a manner as
30 to provide a buffer zone around and access to the item being protected.
31 6. Type X, Other fencing or barricade types that may be designated and detailed within the construction
32 documents shall use additional alpha numeric designations.
33

34 **2.2. EROSION CONTROL PROTECTION**

- 35 A. Refer to City of Madison Standard Specification 210.2 for authorized materials associated with erosion control
36 materials.
37

38 **PART 3 - EXECUTION**

39
40 **3.1. GENERAL EXECUTION REQUIREMENTS**

- 41 A. The GC shall be responsible for ensuring all of the following procedures and requirements are implemented as
42 needed for the duration of the Work performed under this contract.
43 B. The GC shall also be responsible for the following:
44 1. Reporting any incident of damage to existing property, right-of-way, or utility to the CPM immediately
45 upon rendering the incident safe, and notifying emergency response teams, and emergency utility crews
46 as needed.
47 2. Conduct a site walk through prior to leaving at the end of each day to assess:
48 a. Protection measures are properly in place, provide correction actions as necessary.
49 b. Note damage to existing completed work and schedule repair/replacement as needed.
50 3. Ensure all contractors and workers are being diligent in protecting existing work.
51

52 **3.2. PROTECT ADJACENT PROPERTIES**

- 53 A. Whenever possible through the design process the City of Madison shall have previously provided notice to
54 adjacent property owners that work will be occurring on or near their property. The City of Madison shall also
55 have obtained any permanent or temporary easements that may be necessary to complete any Work on
56 adjacent properties.
57 B. It shall be the responsibility of the GC to do the following for all Work under this contract being performed on or
58 adjacent to the property line:

- 1 1. Contact the adjacent property owner and provide him/her with information on the work to be done,
2 equipment to be used, and estimated duration of the work. Information to be updated and
3 communicated to property owner(s) as construction progresses and site conditions change.
4 a. If any adjacent property is a rented or leased space the GC shall also make contact and provide
5 the same information to the tenants.
6 b. Determine from the owner and/or tenants if there are any concerns for children, pets, special
7 plantings, or other concerns.
8 2. Discuss the following with all contractors performing work on or near the property line.
9 a. Work to be completed and timeline.
10 b. Concerns of adjacent property owners/tenants from item 1 above.
11 c. Which protective measures will be necessary to protect adjacent properties and address the
12 concerns of adjacent property owners/tenants.
13 3. Ensure all protective measures are placed and maintained during the execution of Work on or adjacent to
14 the property line. Interact with the adjacent property owners/tenants as needed.
15 C. Any contractor doing work on or adjacent to the property line shall install and maintain any protective measure
16 identified in the contract documents, this specification, or as directed by the GC.
17 D. The GC shall be responsible for restoring any damage to structure and property located on or adjacent to the
18 property line.
19 1. Restoration shall include but not be limited to repair or replacement using like materials and finishes to
20 its original condition or better.
21 2. Restoration of landscaping materials shall include watering of any seed, sod, or other planting of any kind
22 for a reasonable period of time to encourage germination and root development.
23 E. The GC shall keep the CPM informed directly to any issues pertaining to adjacent property owners and tenants.
24

25 **3.3. PROTECT UTILITIES**

- 26 A. The contractor shall be responsible for notifying all utilities to determine emergency response procedures and
27 protection requirements prior to installing any construction protection.
28 1. This includes requesting utility marking through Diggers Hotline.
29 a. Call 811 or 1-800-242-8511 to request a public utility locate
30 b. For emergency locate call (262) 432-7910 or (877) 500-9592
31 2. Contact the Owner and CPM for any available private utility information on the property that may be
32 available prior to calling a private utility locating company.
33 B. Except where specifically stated in other areas of the construction documents the following minimal protection
34 requirements shall apply under this section.
35 1. Hydrants, lamp posts, electrical transformers, and other utility pedestals shall be protected with Type D
36 fencing for areas on pavement or Type E fencing for areas on soil. Fence posts shall be located so as to
37 not be directly over the utility main.
38 2. Storm sewer structures in pavement shall have proper inlet protection according to City of Madison
39 Standard Specification 210.1(g) and Type C Construction Barrels when necessary.
40 3. Storm sewer structures in turf and other landscaped areas shall have proper inlet protection according to
41 City of Madison Standard Specification 210.1(g) and Type E fencing for areas on soil.
42 4. Stormwater management features such as greenways, retention/detention ponds, bio-filtration ponds
43 and other such features shall be properly protected according to the appropriate erosion control
44 measure specified on the Erosion Control Plan. See multiple sections of City of Madison Standard
45 Specification 210.1
46 a. For the protection of hard to see items such as structures, castings, inlets, etc. in grassy areas
47 provide Type E fencing for areas on soil.
48 c. For the protection of storm water management features having special soils and plants such as
49 bio-filtration ponds provide Type E fencing for areas on soil.
50 5. Other structures and covers including but not limited to cleanouts, wiring hand holes, valve boxes, access
51 structures, grease trap structures, etc shall be protected as follows:
52 a. Provide Type E fencing for areas on soil.
53 b. When paving operations are complete provide a construction barrel or cone near structures as
54 necessary depending on required heavy construction traffic.

55 **3.4. PROTECT PUBLIC RIGHT OF WAY**

- 56 A. Except where specifically stated in other areas of the construction documents the following minimal protection
57 requirements shall apply under this section.

- 1 1. All public right-of-way (area from behind the sidewalk to the centerline of the street) shall remain open
2 and accessible except during periods of active work. At such times the public right of way shall be
3 properly closed and signed as referenced in City of Madison Standard Specification 107.9.
4 2. Bus stops and bus stop structures shall remain accessible at all times.
5 3. Traffic signage and traffic signals, traffic control boxes shall be protected with Type D fencing for areas on
6 pavement or Type E fencing for areas on soil.
7 a. Protection at traffic signage/signals shall not obstruct the viewing of the sign/signal for its
8 intended purpose at any time.
9 B. When additional protection for traffic control is required, the use of barricades, guardrails, lane closures and
10 other such procedures will be detailed within the construction documents.
11 C. When additional protection for overhead sidewalk cover is required the contract documents shall indicate the
12 specific location and structural requirements of the protective structure.
13
14
15
16
17
18

END OF SECTION