

March 19, 2017

Department of Public Works

Engineering Division

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NOTICE OF ADDENDUM ADDENDUM 1

CONTRACT NO. 7928

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

CHANGES TO BID FORM - SEE NEW

- 1. Change Item 4, "Concrete Repair at Vertical Surfaces of Columns/Walls/Beams" quantity to 230 SF.
- 2. Change Item 20, "Sidewalk Replacement" quantity to 1100 SF.
- 3. Change Item 22, "New Precast H Inlets and Castings" description to "New 10" Nyloplast Drain Basins and Standard Castings"
- 4. Delete Item 23 Curb Replacement. Add Item 23 Reset Light Pole Base at SSCF, Quantity: 1, Unit: EA.

CHANGES TO SPECIFICATION SECTIONS

- 1. GENERAL REQUIREMENTS UNIT PRICES: Changes made to items 21, 22 and 23. See new document.
- 2. SECTION 33 31 11 SITE STORM UTILITY DRAINAGE PIPING: See new document.

CHANGES TO DRAWINGS

- 1. SHEET SF2 LEVEL 5 FLOOR PLAN: Add to drawing set vertical repair at column on the top level.
- 2. SHEET SF3 GRADING AND UTILITY PLAN: Add to drawing set civil design drawing for site improvements North of State Street Campus - Frances ramp.
- 3. SHEET CNO LEVEL L FLOOR PLAN: Added an overhead beam repair at Northeast corner of Ramp.

3/19/2017-7928Addendum1.doc

4. SHEET 1 - TOPOGRAPHIC MAP: Add to drawing set - Topographic base map for site North of State Street Campus - Frances Ramp.

ATTACHMENTS

- 1. Unit Prices Section
- 2. Section 33 41 11
- 3. Survey Basemap
- 4. Sheet SF2 Level 5 Floor Plan
- 5. Sheet SF3 Grading and Utility Plan
- 6. Sheet CNO Revised
- 7. Estimated Quantity Spreadsheet (per ramp)

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

http://www.bidexpress.com

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

David C. Dryer, P.F., City Traffic Engineer and Parking Utility Manager

1.01 UNIT PRICES

- A. Work is to be paid for on a Unit Price basis and bid on estimated quantities. The work items and basis of payment are listed in abbreviated form below. These work items are to be installed and completed as per specifications and as shown on the drawings.
- B. Costs for mobilization, shoring, traffic control, shop drawings, permits, fees, and such items as required to provide a complete and usable project shall be included in the unit prices below.

Item	Type of Work	Unit Price
1	<u>Topside slab repair</u> including removal of concrete to a variable depth of 1" to 4", grit-blasting of the newly exposed concrete surface, and placing "ready-mix" concrete fill (pre-packaged concrete at Contractor's option). Refer to detail 1/D1 and Specification sections 02 41 17, 03 30 00, and 03 31 45. Payment based on area of concrete placed at top surface of slab.	\$/Sq. Ft.
2	Concrete repair at overhead of slab and beams including, removal of concrete, grit-blasting of the exposed concrete surface and reinforcing steel, and placing pre-packaged or shotcrete concrete fill. Refer to detail 2/D1 and Specification sections 02 41 17, 03 31 45 and 03 37 13. Payment based on exposed area of concrete placed.	\$/Sq. Ft.
3	Concrete repair at joist stems at SSCL including removal of concrete, grit-blasting of newly exposed steel, and placing pre-packaged or shotcrete concrete fill. Refer to detail 3/D1 and Specification sections 02 41 17, 03 31 45 and 03 37 13. Payment based on linear foot of joist patched.	\$/Lin. Ft.
4	Concrete repair at vertical surfaces including removal of concrete, grit-blasting of the newly exposed concrete surface and reinforcing steel, and placing prepackaged or ready-mix concrete fill. Refer to detail 4/D1 and Specification sections 02 41 17 and 03 31 45 for further information. Payment based on exposed surface area of concrete placed.	\$/Sq. Ft.
5	Concrete repair at column top at SSCL including removal of cracked and delaminated concrete; grit-blasting newly exposed concrete surface and reinforcing steel. Reset existing posts, form and cast replacement concrete at pier. Work also includes the removal and reinstallation of parking bumpers. Refer to detail 6/D1 and Specification sections 02 41 17, 03 12 00 and 03 30 00. Payment based on area of pier repaired.	\$/Sq. Ft.
6	Concrete repair at column tops at CSN including removal of deteriorated concrete, grit-blasting of the newly exposed concrete surface, reinforcing steel and steel plate. Work also includes the removal and reinstallation of parking rails and welding rebar studs to exposed steel plate. Form and cast replacement Concrete. Refer to details 1/D2 and 4/D2; Spec sections 02 41 17, 03 12 00 and 03 30 00. Payment for repair based on area of column repaired.	\$/Sq. Ft.
7	Concrete Slab-on-grade Repair at CSN Ramp. Work will include removal of deteriorated concrete, grit-blasting of the newly exposed concrete surface, and placing "ready-mix" concrete fill (pre-packaged concrete at Contractor's option). Refer Specification sections 02 41 17, 03 30 00, and 03 31 45. Payment based on area of concrete placed at top surface of slab	\$/Sq. Ft.

Item	Type of Work	Unit Price
8	<u>Install supplemental reinforcing steel</u> including fabrication, supply, detailing, storing, and placing replacement and supplemental reinforcing steel. Refer to Specification Section 03 21 13. Payment based on nominal rebar weights per installed length.	\$/Lbs
9	Rout and seal cracks including grinding crack and joint edges, installing backer rod or bond breaker tape, and installing sealant. Refer to detail 2/D2 and Specification section 07 92 00. Payment based on length of sealant installed.	\$/Lin. Ft.
10	Replace sealant at horizontal and vertical surfaces including removal of existing sealant from cracks and joints, grinding crack and joint edges, installing backer rod or bond breaker tape, and installing new sealant. Joint width varies. Refer to detail 3/D2 and Specification Section 07 92 00. Payment based on length of sealant installed.	\$/Lin. Ft.
11	<u>Full system membrane placement</u> including surface preparation of existing membrane and exposed concrete surfaces at existing and new concrete patch areas. Work shall include surface preparation, primer, base coat, wear coat, and top coat. Refer to Specification Section 07 18 00. Payment based on area of membrane installed.	\$/Sq. Ft.
12	Membrane wear coat and top coat placement including surface preparation of existing membrane system. Work includes placement of wear coat and top coat membrane over existing areas with exposed membrane (base coat) and areas with heavily worn or weathered membrane. Refer to Specification Section 07 18 00. Payment based on area of membrane installed.	\$/Sq. Ft.
13	Grit-blast and paint angles along pour strip at CSN including all preparation, grit-blasting to near white conditions, priming, and painting as outlined in Specification Section 09 91 13. Refer to detail 2/D3. Surfaces to be painted include steel angles at the edge of slab supporting the pour strip. Payment based on length of pour strip receiving new paint.	\$/Lin. Ft.
14	Complete replacement at pourstrip haunch at CSN. Including sawcutting concrete, removal of concrete, grit-blasting of the exposed concrete surface and reinforcing steel, removal of steel angle and placing pre-packaged or shotcrete concrete fill and new manufactured haunch angle. Refer to Detail 1/D3 and Specifications Sections 02 41 17, 03 31 45, 03 37 13, and 05 50 00.	\$/Lin. Ft.
15	Replace expansion joint header material including removal of existing damaged header material, inspection of and adhering existing seal, and installing new header material. Refer to specification section 07 95 01. Payment is based on length of header material installed.	\$/Lin. Ft.
16	<u>Complete expansion joint replacement</u> including chipping out existing joint including angles flanking slab separation, placing concrete to form new block out and placing new joint seal system. Refer to detail 5/D2 and specification sections 02 41 17, 03 30 00, and 07 95 01. Payment based on length of expansion joint slab system installed.	\$/Lin. Ft.
17	Replace Expansion Joint - 4" Wide Polyurethane Seal at OC including removal of existing expansion joint seal, replace/rebuild epoxy block outs, replace epoxy nosing and remove and replace traffic plates as needed and install new 4" wide polyurethane joint seal. Refer to Detail 6/D2 and Specification Sections 03 31 45 and 07 95 01. Payment based on length of expansion joint seal installed	\$/Lin. Ft.

Item	Type of Work	Unit Price
18	Repair cracked stair treads at parking structures. Work will include restoration at designated stair treads, installation of dowels. Resetting rail posts and casting replacement concrete at stair tread. Refer to detail 5/D1 and Specification sections 02 41 17, 03 30 00, and 03 31 45. Payment is based on square feet of work completed.	\$/Sq. Ft
19	Trench Drain Replacement at SSCo. Work will include removal of existing trench drain and installation of new ACO drain. Removal of deteriorated concrete surrounding drain, grit-blasting of the newly exposed concrete surfaces, forming new drain section and placing "ready-mix" concrete fill (pre-packaged concrete at Contractor's option). Work also includes new PVC pipe to connect into existing 4"-6" drain system, including all pipe fittings. Refer to Details 3/D3, 4/D3, 5/D3, 6/D3 and Specification Sections 02 41 19 and 33 44 00. Payment based on length of trench drain installed. Additional reinforcing steel necessary shall be paid according to item 8.	\$/Lin. Ft.
20	Sidewalk Replacement outside SSCF ramp. Includes removal of current Sidewalk along the North side of the SSCF ramp, leveling of subbase and pouring new Standard City of Madison Sidewalk matching existing sidewalk adjacent. Refer to Specification Sections 02 41 19, 03 12 00, and 03 30 00. Replacement cost includes removal of old slab, placement and prep of subbase as required, and placement of new sidewalk poured. Payment based on square footage of sidewalk placed.	\$/Sq. Ft.
21	New 8" PVC Storm Pipe outside SSCF ramp. Contractor shall provide 8" PVC pipe to connect new Drain Basins and existing City Storm inlet in Frances. Work shall include all excavation, connections and backfill. Also include stubs with ends in locations shown on sheet SF3. Includes removal of existing 8" iron pipe. Refer to Specification Section 33 41 11. Payment based on length of PVC piping installed.	\$/Lin. Ft.
22	New 10" Nyloplast Drain Basins and Standard Castings outside SSCF ramp. Contractor shall provide new 10" Custom depth Nyloplast Drain Basins and standard 12" square grate inlet. Work shall include all excavation, leveling subbase, backfill and placement of Precast H Inlets. Refer to Specification Section 33 41 11 and all manufacturers' installation specifications. Payment based on number of units installed.	\$/EACH
23	Reset Light Pole Base with New Anchor Bolts at SSCF. Following restoration of column at SSCF, reset light pole, including placement of new 1" dia. x 16" long galvanized threaded rods. Refer to specification section 05 50 00. Payment based on light poles reset.	\$/EACH
24	<u>Pipe Tap and Connection</u> outside SSCF ramp. Includes connection of new 8" PVC Storm Pipe to existing storm structure in Frances St. Also includes removal of existing connection of 8" Iron pipe. Refer to Specification Section 33 41 11 and City of Madison standards. Payment based on each connection made.	\$/EACH

SECTION 33 41 11 SITE STORM UTILITY DRAINAGE PIPING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Storm drainage piping, fittings, and accessories.
- B. Connection of drainage system to *municipal storm sewers*.
- C. Catch basins; Trench drains; Plant area drains; Paved area drainage; Site surface drainage; underground storm water treatment system; and manholes.

1.02 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Concrete for cleanouts, storm structures and base pad construction.

1.03 PRICE AND PAYMENT PROCEDURES

A. See general requirements 1.09 - Unit Prices, for additional unit price requirements.

1.04 DEFINITIONS

A. Bedding: Fill placed under, beside and directly over pipe, prior to subsequent backfill operations.

1.05 REFERENCE STANDARDS

- A. 36 CFR 1191 Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. AASHTO M 36 Standard Specification for Corrugated Steel Pipe, Metallic-Coated, for Sewers and Drains; 2014.
- C. AASHTO M 252 Standard Specification for Corrugated Polyethylene Drainage Pipe; 2009 (Reapproved 2012).
- D. AASHTO M 294 Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500 MM (12- to 60-in.) Diameter; 2013.
- E. ADA Standards Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- F. ASTM A48/A48M Standard Specification for Gray Iron Castings; 2003 (Reapproved 2012).
- G. ASTM A74 Standard Specification for Cast Iron Soil Pipe and Fittings; 2016.
- H. ASTM C12 Standard Practice for Installing Vitrified Clay Pipe Lines; 2014.
- I. ASTM C14 Standard Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe; 2015.
- J. ASTM C14M Standard Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe (Metric); 2015.
- K. ASTM C76 Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe; 2016.
- L. ASTM C76M Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (Metric); 2015.
- M. ASTM C425 Standard Specification for Compression Joints for Vitrified Clay Pipe and Fittings; 2004 (Reapproved 2013).
- N. ASTM C443 Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets; 2012.
- O. ASTM C443M Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets (Metric); 2011.

- P. ASTM C564 Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings; 2014.
- Q. ASTM C700 Standard Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated: 2013.
- R. ASTM D1785 Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120; 2015.
- S. ASTM D2321 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications; 2014.
- T. ASTM D2680 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Composite Sewer Piping; 2001 (Reapproved 2014).
- U. ASTM D2729 Standard Specification for Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings; 2011.
- V. ASTM D3034 Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings; 2015.
- W. ASTM D3350 Standard Specification for Polyethylene Plastics Pipe and Fittings Material; 2014.
- X. DIN EN 1433 Drainage Channels for Vehicular and Pedestrian Areas Classification, Design and Testing Requirements; Marking and Evaluation of Conformity; 2005.
- Y. DIN 19580 Drainage Channels for Vehicular and Pedestrian Areas Durability, Mass per Unit Area and Evaluation of Conformity; 2010.

1.06 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate the installation of storm sewer and drains with size, location and installation of service utilities shown in the Drawings.
- B. Pre-installation Meeting: Conduct a pre-installation meeting at least one week prior to the start of the work of this section; require attendance by all affected installers.
- C. Sequencing: Ensure that utility connections are achieved in an orderly and expeditious manner.

1.07 SUBMITTALS

- A. See the general requirements for submittal procedures.
- B. Product Data: Provide data indicating pipe, pipe accessories, manufactured drains, and fittings.
- C. Shop Drawings for all Precast Concrete Structures.
- D. Manufacturer's Installation Instructions: Indicate special procedures required to install Products specified.
- E. Field Quality Control Submittals: Document results of field quality control testing.
- F. Project Record Documents:
 - 1. Record location of pipe runs, connections, manholes, catch basins, underground treatment system including invert elevations for all pipes.
 - Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.08 REGULATORY REQUIREMENTS

A. Conform to City of Madison ordinances, WDNR Technical Standards and WDSPS code for materials and installation of the Work of this section.

PART 2 - PRODUCTS

2.01 OWNER-FURNISHED PRODUCTS

A. None.

2.02 SEWER PIPE MATERIALS

- A. Provide products that comply with City of Madison ordinances, WDNR Technical Standards and WDSPS code.
- B. Concrete Pipe: Reinforced, ASTM C76 (ASTM C76M), Class III unless otherwise noted in the Drawings. All Public Storm Sewer shall be concrete pipe.
- C. Reinforced Concrete Pipe Joint Device: ASTM C443 (ASTM C443M) rubber compression gasket joint.
- D. Plastic Pipe: ASTM D3034, Type PSM, Poly Vinyl Chloride (PVC) material. Pipe shall be SDR-35, unless otherwise noted. Pipe over 15 inches in diameter shall meet the requirements of ASTM F679-03. Do not mix different manufacturer's products, or fittings
- E. Plastic Pipe: ASTM D3350, High Density Polyethylene (HDPE) corrugated wall pipe with integrally formed smooth liner, meeting the requirements of AASHTO M 252, Type S, for diameters between 3 inches and 10 inches, and AASHTO M 294, Type S, for diameters between 12 inches and 60 inches, bell and spigot joints with rubber gaskets, with pipe and fittings manufactured from virgin PE compounds with cell classification 3254420C.
 - 1. Joints for the Storm Treatment System shall be silt-tight.
 - 2. Joints for Storm Sewers and Drains shall be soil tight.
- F. Coupling Bands: Galvanized steel, 0.052 inches (1.3 mm) thick x 10 inches (250 mm) wide; connected with two neoprene "O" ring gaskets and two galvanized steel bolts.

2.03 PIPE ACCESSORIES

- A. Pipe Joints: Mechanical clamp ring type, stainless steel expanding and contracting sleeve, neoprene; ribbed gasket for positive seal.
- B. Fittings:
 - 1. Same material as pipe molded or formed to suit pipe size and end design, in required tee, bends, elbows, cleanouts, reducers, traps and other configurations required.
 - 2. HDPE Fittings and pipe manifolds for the Storm Water Treatment system shall be prefabricated by the same pipe manufacturer as supplies the pipe. All components of the Storm Water Treatment system shall be provided by the same manufacturer.
- C. Filter Fabric: Non-biodegradable, non-woven filter fabric meeting the requirements of Section 645 of the WisDOT Standard Specifications for Type SAS fabric.
- D. Trace Wire: Magnetic detectable conductor, brightly colored plastic covering, imprinted with "Storm Sewer Service" in large letters.
- E. Downspout Boots: Smooth interior without boxed corners or choke points; include integral lug slots, integral cleanout; cleanout cover, and tamper proof fasteners;
 - 1. Materials and Configuration: as shown on the Drawings.

2.04 CATCH BASIN, TRENCH DRAIN, CLEANOUT, AND AREA DRAIN COMPONENTS

- A. Drain Basins, In-Line Drains and Inlets.
 - PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer.
 - 2. The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

- 3. The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24", and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12 inch and 15-inch square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.
- 4. Where shown, the basins shall be provided with the sump specified.

2.05 BEDDING AND COVER MATERIALS

A. Bedding: Per City of Madison standards

B. Cover: Per City of Madison standards

PART 3 - EXECUTION

3.01 TRENCHING

- A. Hand trim excavation for accurate placement of pipe to elevations indicated.
- B. Backfill around sides and to top of pipe with cover fill, tamp in place and compact, then complete backfilling.

3.02 INSTALLATION - PIPE

- A. Verify that trench cut is ready to receive work and excavations, dimensions, and elevations are as indicated on the Drawings.
- B. Install pipe, fittings, and accessories in accordance with manufacturer's instructions
 - 1. Reinforced Concrete Pipe: Per Section 608, WisDOT Standard Specifications.
 - 2. Plastic Pipe: Also comply with ASTM D2321.
- C. Lay pipe to slope gradients noted on the Drawings; with maximum variation from true slope of 1/16 inch in 10 feet. The laser beam method is the preferred method for controlling line and grade. Equipment shall be operated in accordance with the manufacturer's instructions. A person who is competent with the operation of the laser equipment shall be present at the jobsite whenever it is being used.
- D. Connect to building storm drainage system, foundation drainage system, and utility/municipal sewer system.
- E. Make connections through walls through sleeved openings, where provided.
- F. Install continuous trace wire 6 inches inches above top of pipe for all plastic pipe.

3.03 INSTALLATION - CATCH BASINS, TRENCH DRAINS AND CLEANOUTS

- A. Form bottom of excavation clean and smooth to correct elevation.
- B. Form and place cast-in-place concrete base pad, with provision for sanitary sewer pipe end sections.
- C. Level top surface of base pad; sleeve concrete shaft sections to receive storm sewer pipe sections.
- D. Establish elevations and pipe inverts for inlets and outlets as indicated.
- E. Mount lid and frame level in grout, secured to top cone section to elevation indicated.
- F. Invert channels shall be smooth and accurately shaped to a semicircular bottom conforming to the inside of the adjacent sewer section. Shape invert channels and structure bottoms with cement mortar. Changes in size and grade of invert shall be made gradually and evenly. Changes in direction of the sewer entering branch or branches shall have a true curve of as large a radius as the manhole will permit.

3.04 SEPARATION FROM WATER MAIN

- A. Provide a minimum horizontal separation of ten feet when constructing parallel to the water main.
- B. Vertical Separation

- 1. When a sewer crosses under a water main, provide a minimum of 12 inches between the bottom of the water main and the top of the sewer.
- 2. When a sewer crosses over a water main, provide a minimum of 36 inches between the bottom of the sewer and the top of the water main.

3.05 FIELD QUALITY CONTROL

- A. Perform field inspection.
- B. If tests indicate Work does not meet specified requirements, remove Work, replace and retest at no cost to Owner.

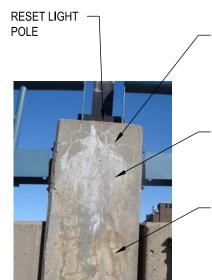
3.06 PROTECTION

A. Protect pipe and bedding cover from damage or displacement until backfilling operation is in progress.

END OF SECTION

7159

THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF JSD PROFESSIONAL SERVICES, INC.



REMOVE UNSOUND CONCRETE AND REPLACE w/ NEW **CONCRETE PER** SPECIFICATIONS, TYP

INSTALL SUPPLEMENTAL REINFORCING IF NECESSARY, CONSULT **ENGINEER**

3/4" MIN REMOVAL ALL AROUND BARS, TYP

COLUMN REPAIR

3/4" = 1'-0"



VERTICAL CONCRETE REPAIR OF COLUMN IN 2013, ANTICIPATE SIMILAR RESTORATION AT COLUMN IN DETAIL

COLUMN REPAIR - 2013 3/4" = 1'-0"

LEGEND

Α

58'-0"

AISLE "G" LEVEL 4

VERTICAL COLUMN 23 4

REPAIR

X REPAIR ITEM NUMBER REFERS TO WORK ITEM NUMBER OUTLINED IN THE UNIT PRICES SECTION OF SPEC.

•

D

239'-2"

С

1'-10"

59'-9"

AISLE "H"

LEVEL 5

Ε

59'-9"

AISLE "J" LEVEL 5

1'-10"

42'-4"

AISLE "K" LEVEL 4

G

Η

15'-8"

LEVEL 5 FLOOR PLAN

1/32" = 1'-0"



HAWTHORNE COURT KEY PLAN

Engineers · Surveyors · Planne:

"BUILDING RELATIONSHIPS WITH A COMMITMENT TO CLIENT SATISFACTION HROUGH TRUST, QUALITY AND EXPERIENCE

- CIVIL ENGINEERING
- SURVEYING & MAPPING
 CONSTRUCTION SERVICES
- WATER RESOURCES
 PLANNING & DEVELOPMENT
- TRANSPORTATION ENGINEERING
- STRUCTURAL ENGINEERING
- LANDSCAPE ARCHITECTURE MADISON REGIONAL OFFICE

VERONA, WISCONSIN 53593 608.848.5060 PHONE **■** 608.848.2255 FAX

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15-7159

2017 PARKING GARAGE MAINTENANCE

STATE STREET CAMPUS - FRANCES

SD PROJECT NO.

2

3

4

5

6

7

8

9

ALTHOUGH EVERY EFFORT HAS BEEN MADE ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN: PGB	
DRAWN: PGB	
APPROVED: JJE	
PLAN MODIFICATIONS:	DATE:
ADDENDUM #1	03/17/2017



Toll Free (800) 242-8511 Milwaukee Area (414) 259-1181 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

LEVEL 5 FLOOR PLAN

SF2

<u>—</u>

N. FRANCES STREET

LEGEND

ST — STORM SEWER

DRAINAGE DIRECTION

934.20 FG

SPOT ELEVATION

EP - EDGE OF PAVEMENT

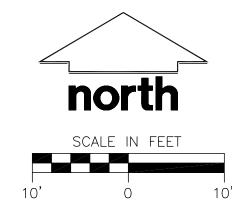
FG - FINISH GRADE

EC - EDGE OF CONCRETE

TS - TOP OF STEP

BS - BOTTOM OF STEP

BS — BÖTTÖM ÖF STER RIM — RIM ELEVATION — — — — — — GRADE BREAK



GENERAL NOTES:

- 1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
- 2. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND THE CITY OF MADISON REQUIREMENTS.
- 3. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
- 4. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

SITE PLAN NOTES

- 1. ALL DIMENSIONS TO FACE OF CURB AND/OR EDGING OF CONCRETE UNLESS OTHERWISE NOTED.
- 2. ALL RADII TO FACE OF CURB AND/OR EDGING OF CONCRETE UNLESS OTHERWISE NOTED.
- 3. ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATCH EXISTING AND MEET THE REQUIREMENTS OF THE CITY OF MADISON.
- 4. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE—QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER
- 5. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER
- 6. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
- 7. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
- 8. USE 4" WIDE, HIGH VISIBILITY YELLOW LATEX PAINT FOR STALL LINES.
- 9. MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
- 10. 2' x 4' TRUNCATED DOME WARNING DETECTION FIELD SHALL BE PLACED AT ALL ADA RAMPS.
- 11. ALL PAVEMENT MARKINGS INCLUDING: STOP BARS, CROSSWALKS, DIRECTIONAL ARROWS, PARKING STALL LINES, ADA STALL MARKINGS, NO PARKING ZONES, DROP-OFF/PICK-UP ZONES SHALL BE PAINTED WITH LATEX PAINT PER SPECIFICATIONS.

UTILITY NOTES:

OBSERVATION.

- 1. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- 2. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WDSPS, AND WDNR.
- 5. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:

 * EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
- * VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
- * NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.

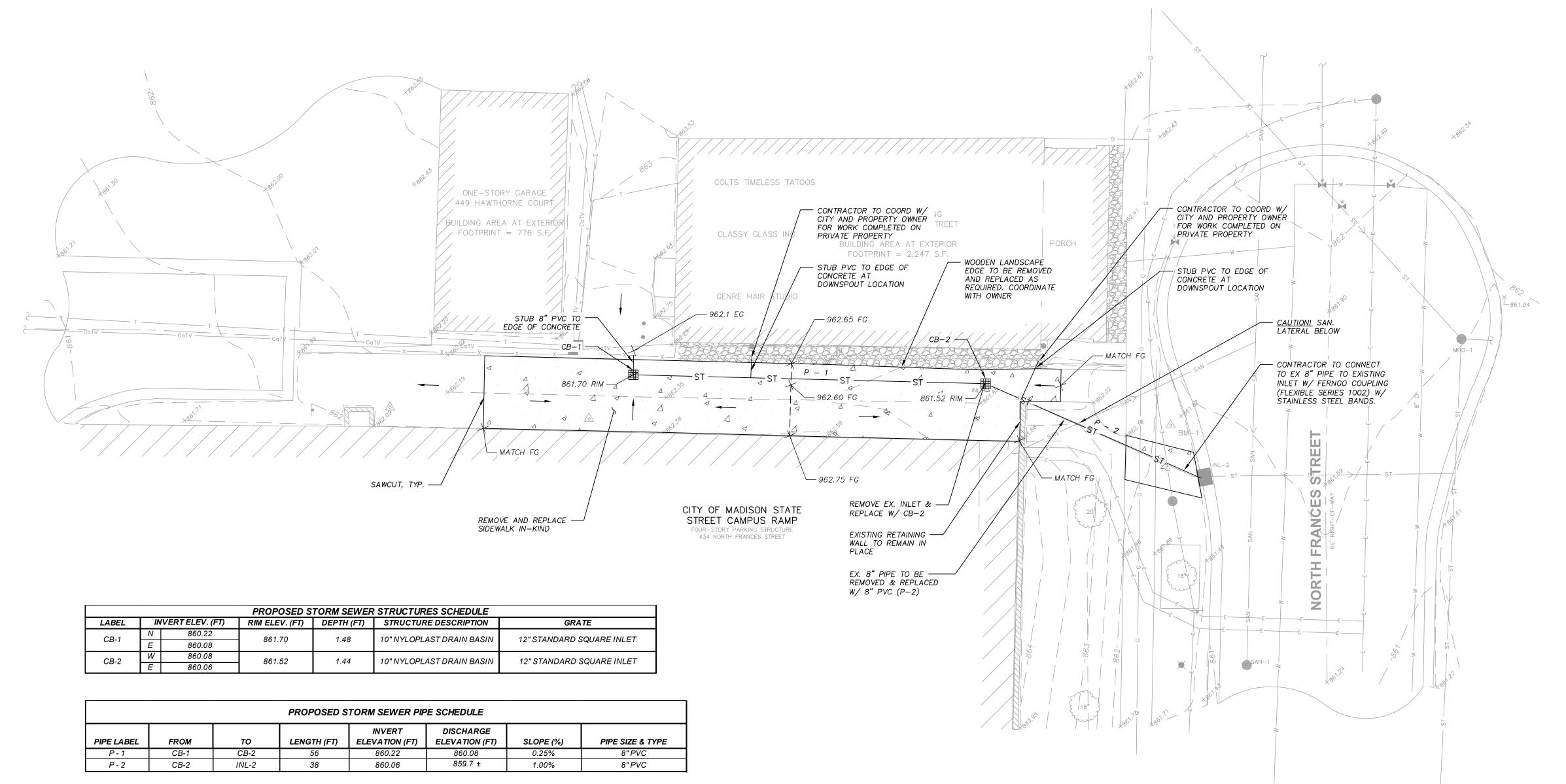
 * NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS—BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE

* OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN

- DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
- DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- 9. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

8. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED

- 10. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
- 11. CONTRACTOR SHALL CONTACT THE CITY OF MADISON PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES. CONTRACTOR TO VERIFY SIZE AND DEPTH OF EXISTING UTILITY SERVICES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONNECTING.
- 12. ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
- 13. ALL PRIVATE STORM PIPE SHALL CONFORM TO SPS 382.40(8)(B)4.A.
- 14. ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 382.40-8 INCLUDING AT LEAST 8' OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6' OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
- 15. ALL LOCATIONS WHERE STORM SEWER AND WATER MAIN ARE CROSSING AND LESS THAN 3 FEET OF VERTICAL/HORIZONTAL SEPERATION IS PROVIDED, WATER MAIN SHALL BE INSULATED PER STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN LATEST EDITION. INSULATION SHALL CREATE A "BOX" ENCLOSING THE TOP AND SIDES OF WATER MAIN.





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THROUGH TRUST, QUALITY AND EXPERIENCE

- CIVIL ENGINEERING
- SURVEYING & MAPPING
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- STRUCTURAL ENGINEERING
- LANDSCAPE ARCHITECTURE

MADISON REGIONAL OFFICE 161 HORIZON DRIVE, SUITE 101 VERONA, WISCONSIN 53593

608.848.5060 PHONE 608.848.2255 FAX

SERVICES PROVIDED TO:

CITY OF

MADISON,

PARKING

UTILITY



15-7159

215 MARTIN LUTHER KING JR. BLVD MADISON, WISCONSIN 53701-2986

PROJECT:

2017 PARKING GARAGE MAINTENANCE

PROJECT LOCATION: STATE STREET CAMPUS - FRANCES

SEAL/SIGNATURE:

JSD PROJECT NO.:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE

AND BE RESPONSIBLE FOR THE SAME.				
03/15/2017				
03/15/2017				
03/16/2017				
DATE:				
03/17/2017				



Toll Free (800) 242-8511

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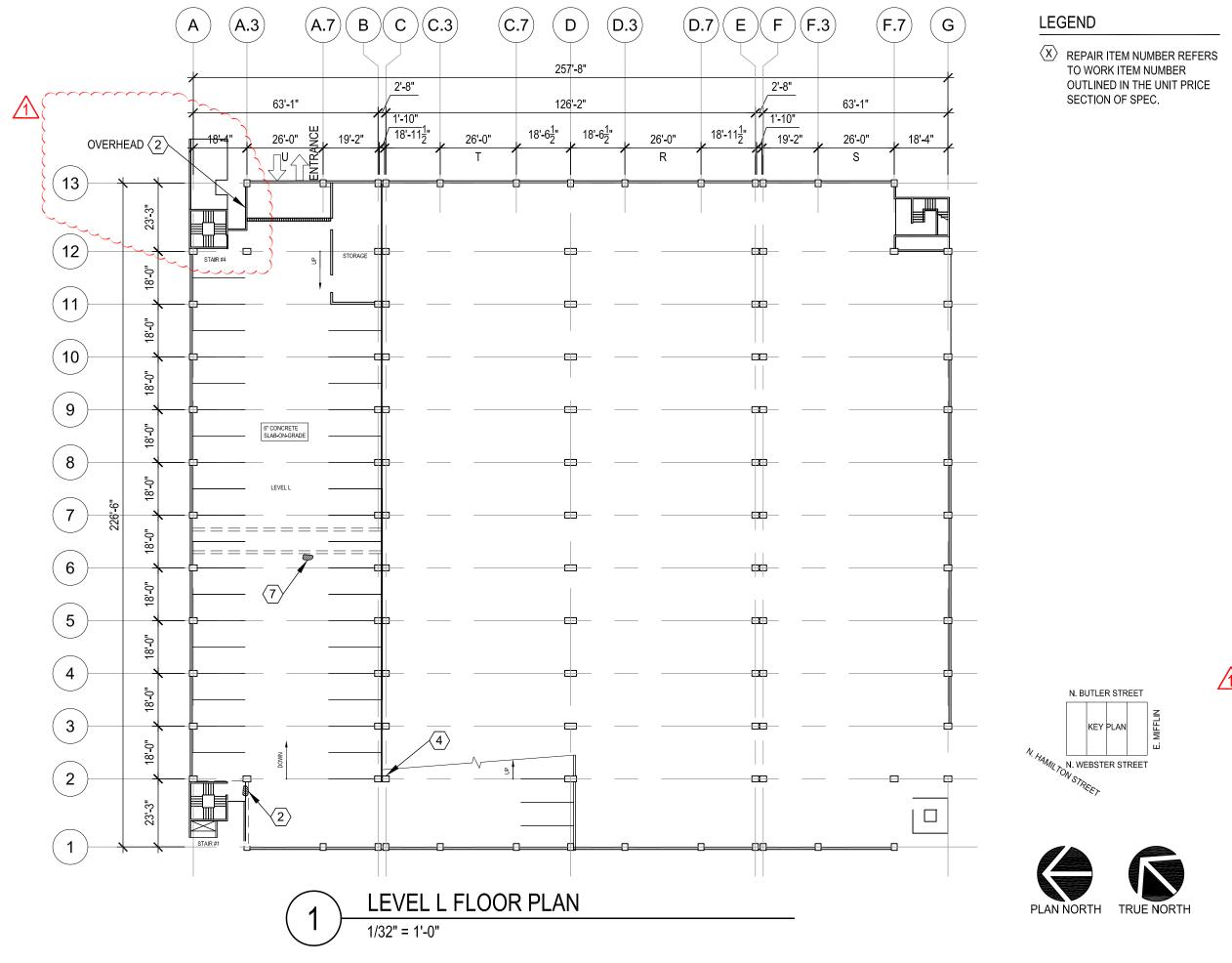
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SHEET TITLE:

GRADING AND
UTILITY PLAN

SHEET NUMBER:

SF3



ISD Professional Services, Inc Engineers · Surveyors · Planne

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CITY OF MADISON. PARKING UTILITY



15-7159

215 MARTIN LUTHER KING JR. BLVD MADISON, WISCONSIN 53701-2986

PROJECT:

2017 PARKING GARAGE MAINTENANCE

CAPITOL SQUARE NORTH

ISD PROJECT NO.

SEAL/SIGNATURE:

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY. THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

DESIGN: PGB DRAWN: PGB

PLAN MODIFICATIONS

Toll Free (800) 242-8511 Mllwaukee Area (414) 259-1181 Hearing Impaired TDD (800) 542-2289

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LEVEL L FLOOR PLAN

CNO

Estimated Quantities Spreadsheet City of Madison 2017 Parking Ramp Maintenance Contract # 7928 15-7159/2017 Restoration Specifications

Item	Type of Work	SSCL	SSCF	ОС	SSCO	CSN	Total	Unit
1	Topside of Slab Repair	0	0	10	0	0	10	SF
2	Concrete Repair at Overhead of Slabs and Beams	40	0	30	30	60	160	SF
3	Repair Concrete Joist Stems at SSCL	160	0	0	0	0	160	LF
4	Concrete Repair at Vertical Surfaces of Columns/Walls/Beam	80	20	80	0	50	230	SF
5	Concrete Repair at Top of Columns at SSCL	200	0	0	0	0	200	SF
6	Concrete Repair at Top of Columns at CSN	0	0	0	0	60	60	SF
7	Concrete Slab-on-grade Repair	0	0	0	0	30	30	SF
8	Install Supplemental Reinforcing Steel	30	0	0	0	20	50	Lbs
9	Rout and Seal Cracks	50	0	60	0	40	150	LF
10	Replace Sealant at Horizontal & Vertical Surfaces	20	0	0	0	60	80	LF
11	Full System Membrane Placement	3,000	0	0	0	5,000	8,000	SF
12	Membrane Wear Coat & Top Coat Placement	12,000	0	140	0	23,000	35,140	SF
13	Grit-Blast & Paint Angles Along Pourstrips at CSN	0	0	0	0	160	160	LF
14	Complete Replacement at Pourstrip Haunch	0	0	0	0	140	140	LF
15	Replace Expansion Joint Header Material	20	10	0	0	0	30	LF
16	Complete Expansion Joint Replacement	0	0	0	20	0	20	LF
17	Replace Expansion Joint - 4" Wide Polyurethane Seal at OC	0	0	25	0	0	25	LF
18	Repair Cracked Stair Treads	0	20	30	0	0	50	SF
19	Trench Drain Replacement at SSCo	0	0	0	16	0	16	LF
20	Sidewalk Replacement	0	1,100	0	0	0	1,100	SF
21	New 8" PVC Storm Pipe	0	100	0	0	0	100	LF
22	New 10" Nyloplast Drain Basins and Standard Castings	0	2	0	0	0	2	EA
23	Reset Light Pole Base with New Anchor Bolts at SSCF	0	1	0	0	0	1	EA
24	Pipe Tap and Connection	0	1	0	0	0	1	EA