Addendum

ADDENDUM NO: 01, BP1

PROJECT: Ball State University, North Dining Project, Bid Package No. 1

BSU PROJECT NO.: 2017-023.01 NWD

CSO PROJECT NO: 17028 DATE: May 31, 2018 BY: T. Cheesman

This Addendum is issued in accordance with the provisions of “The General Conditions of the Contract for Construction,” Article 1, “Contract Documents” and becomes a part of the Contract Documents as provided therein. This Addendum includes:

PART 1 – BIDDING AND CONTRACT DOCUMENTS:
NO CHANGES

PART 2 – SPECIFICATIONS:

2.01 TABLE OF CONTENTS
1. Delete section 01 25 13 Substitution Request Form from the table of contents.
2. Add section 05 53 00 Metal Bar Grating to the table of contents. This section was inadvertently omitted.

2.02 Specification Section 01 10 00 – SUMMARY
1. Part 1.04, Add the following Scope of Work Items:
   a. Newly adopted OSHA Silica Requirements are applicable for this project.
   b. Provide means & methods to control dust created by this Scope of Work.
   c. Mock-ups as required per documents.
   d. Testing as required per documents. Coordinate with Owner’s Testing & Inspection Agency.
   e. Street Sweeping- Provide sweeping / cleaning of streets / parking lots / sidewalks for dirt and debris tracked by this Contract outside of construction fence limits.
   f. Layout- Provide all necessary layout and field engineering for execution of this Scope of Work from established controls & benchmarks. Controls & benchmarks will be provided by others.
   g. Provide Utility Locates as necessary.
   h. Warranty- provide one (1) year warranty per BSU standards.
   i. Provide daily clean-up for this Scope of Work to dispose into trash dumpsters provided by Shiel Sexton / Powers, JV.
   j. Provide all site, utility & site electrical demolition as specified.
   k. Provide all earthwork as specified.
p. Ball State University will only allow topsoil (approved as topsoil by BSU) to be dumped at Heath Farm. All excess subsoil and mixed soils shall be removed off site.
q. Exclude imported topsoil, which will be provided by others.
r. Provide all erosion control & Stormwater Pollution Prevention Plan as specified.
s. Provide complete site domestic water system as specified. Terminate piping that enters building at 5’ outside of building.
t. Exclude brine tank & piping, which will be provided in future Bid Package #2.
u. Provide complete site fire service water system, including vault, as specified. Terminate piping that enters building at 5’ outside of building.
v. Provide complete site sanitary system. Terminate piping that enters building at 5’ outside of building.
w. Exclude grease trap & piping to building, which will be provided in future Bid Package #2. Provide fitting in sanitary lateral & cap for future connection.
x. Provide complete site storm sewer system. Terminate piping that enters building at 5’ outside of building.
y. Provide 2” sump pump piping from existing electrical MH to Structure 648.
z. Exclude all electrical & all telecom duct banks, which will be provided in future Bid Package #2.
aa. Exclude all hot water service & chilled water service piping, which will be provided in future Bid Package #2.
b. Exclude all site gas piping, which will be provided by Vectren.
c. Provide temporary dewatering as needed to provide this Scope of Work.

**Contract #02 – Aggregate Piers**
e. Newly adopted OSHA Silica Requirements are applicable for this project.
f. Provide daily clean-up for this Scope of Work to dispose into trash dumpsters provided by Shiel Sexton / Powers, JV.
g. Provide all design and associated calculations as specified.
h. Exclude layout for pier locations, which will be coordinated with Subcontractor and provided by others.
i. Contact 811 to locate existing underground utilities & provide ticket # to Shiel Sexton / Powers, JV.
j. Leave excess spoils on site for removal by others.
k. Coordinate with requirements for Owner’s Testing & Inspection Agency provided by Owner.
l. Provide Field Quality Control for Contractor’s Testing Agency requirements per Section 31 64 10, 3.07.
m. Reference Section 31 64 10, 1.09-C for Previous construction on site.

**Contract #03 – Building Concrete**
e. Newly adopted OSHA Silica Requirements are applicable for this project.
f. Mock-ups as required per documents.
g. Testing as required per documents. Coordinate with Owner’s Testing & Inspection Agency.
h. Street Sweeping- Provide sweeping / cleaning of streets / parking lots / sidewalks for dirt and debris tracked by this Contract outside of construction fence limits.
i. Layout- Provide all necessary layout and field engineering for execution of this Scope of Work from established controls & benchmarks. Controls & benchmarks will be provided by others.
j. Provide Utility Locates as necessary.
k. Warranty- provide one (1) year warranty per BSU standards.
CSO Architects

l. Provide daily clean-up for this Scope of Work to dispose into trash dumpsters provided by Shiel Sexton / Powers, JV.

m. Provide dumpsters for concrete washout for this Scope of Work only.

n. Provide all building concrete, including but not limited to foundations, foundation walls, piers, slab-on-grade, slab-on-deck and shearwalls.

o. Provide concrete fill for stair pans.

p. Provide all excavation for building foundations provided in this Scope of Work. Remove all excess spoils from site (Ball State won’t allow excess subsoils & mixed soils to be hauled to Heath Farms).

q. Provide temporary dewatering as needed to provide this Scope of Work.

r. Provide all compacted backfill at interior & exterior sides of building foundations provided in this Scope of Work.

s. Provide waterproofing as specified for elevator pit walls.

t. Provide perimeter insulation at foundation slabs & walls. Details to follow in Addendum #2.

u. Provide concrete sealer per specifications to follow in Addendum #2.

v. Receive, unload, store & install anchor bolts that are furnished & delivered by others. Provide as-built locations for anchor bolts. Correct deficient locations as directed by Structural Engineer.

w. Provide all grouting for steel base plates.

x. Receive, unload, store & install embedded items that are furnished & delivered by others.

y. Provide guaranteed dimensions for stair shaft construction to expedite metal stair fabrication by others.

z. Provide as-built dimensions for elevator shafts & elevator openings. Correct deficiencies as directed by Structural Engineer.

aa. Provide shoring & re-shoring as specified for openings in shear walls.

bb. Coordinate requirements for notifications / scheduling for foundation inspections as required by Building Permit.

cc. Exclude all Aggregate Piers & Rigid Piers per Contract #02 Aggregate Piers scope of work.

dd. Provide Loading Dock walls, steps, slab & ramp as detailed on Sheets S200 & S202.

ee. Exclude site slab over brine tank.

ff. Exclude all site concrete- site retaining walls, site stairs, sidewalks, Loading Dock pavement, porch/terrace pavement & misc pavement which will be in future BP 2.

Contract #04 – Structural Steel & Stairs

gg. Newly adopted OSHA Silica Requirements are applicable for this project.

hh. Testing as required per documents. Coordinate with Owner’s Testing & Inspection Agency.

ii. Layout- Provide all necessary layout and field engineering for execution of this Scope of Work from established controls & benchmarks. Controls & benchmarks will be provided by others.

jj. Warranty- provide one (1) year warranty per BSU standards.

ii. Provide daily clean-up for this Scope of Work to dispose into trash dumpsters provided by Shiel Sexton / Powers, JV.

jj. Provide all structural steel and miscellaneous steel per Contract Documents.

kk. Provide all hoisting and rigging to complete this Scope of Work.

ll. Furnish and deliver to jobsite all anchor bolts and embed plates/angles that are embedded in concrete. Exclude receiving, unloading, storing & installation of these items, which will be provided by Contract #03, Building Concrete.
m. Furnish and deliver to jobsite all loose lintels, shelf angles fastened to CMU & shelf angles fastened to concrete per Contract Documents. Exclude receiving, unloading, storing & installation of these items, which will be provided by others.

n. Provide all work required for Tunnel Reinforcing. Provide penetrations as required. Provide waterproofing per Section 07 13 26, Self-Adhering Sheet Waterproofing as required. Provide concrete work as required.

o. Exclude all Site items, such as bollards, bike loops & railings per Sheet LA100, which is for Reference Only.

p. Provide all stairs, pipe railings & pipe handrails per Contract Documents.

q. Exclude glass railing system, which will be provided by others.

r. Provide all work per Section 05 53 00 Metal Bar Grating as included in Project Manual, but excluded from Table of Contents.

s. Provide all screen wall framing per Contract Documents.

t. Exclude elevator pit ladders, which will be provided by Contract #06, Elevators.

**Contract #05 – Sheeting & Shoring**

e. Newly adopted OSHA Silica Requirements are applicable for this project.

f. Testing as required per documents. Coordinate with Owner’s Testing & Inspection Agency.

g. Street Sweeping- Provide sweeping / cleaning of streets / parking lots / sidewalks for dirt and debris tracked by this Contract outside of construction fence limits.

h. Layout- Provide all necessary layout and field engineering for execution of this Scope of Work from established controls & benchmarks. Controls & benchmarks will be provided by others.

i. Provide Utility Locates as necessary.

j. Warranty- provide one (1) year warranty per BSU standards.

k. Provide daily clean-up for this Scope of Work to dispose into trash dumpsters provided by Shiel Sexton / Powers, JV.

l. Design & provide temporary excavation support system for egress stairs at LaFollette Complex per Contract Documents.

m. System will remain in place for future removal by others.

n. Provide temporary dewatering as needed to provide this Scope of Work.

**Contract #06 - Elevators**

e. Newly adopted OSHA Silica Requirements are applicable for this project.

f. Layout- Provide all necessary layout and field engineering for execution of this Scope of Work from established controls & benchmarks. Controls & benchmarks will be provided by others.

g. Provide daily clean-up for this Scope of Work to dispose into trash dumpsters provided by Shiel Sexton / Powers, JV.

h. Provide specified Maintenance & Warranty.

i. Furnish and install elevator pit ladders

j. Furnish and deliver all sleeves, inserts, embeds and anchoring devices that may be required for other Contractors to install. Provide shop drawings to these other Contractors for layout information.

k. Provide all elevator performance requirements as indicated in Contract Documents for complete elevator systems. Coordinate with other trades as required. Lack of coordination with other Contractors will not be considered a change in scope.
l. Provide all necessary rigging & hoisting machinery, temporary platforms, manpower and equipment required for delivery, unloading and staging of tools & equipment deemed essential to complete the Work.

m. Provide all necessary permits & inspections for this Scope of Work. Notify Shiel Sexton / Powers, JV immediately for any non-conforming items within the elevator, hoistway, Control Room and any associated portions prior to scheduling the final inspection. Allow & coordinate adequate time for other Contractors to complete the non-conforming items prior to final inspection.

n. Furnish and install all elevator entrance sill supports.

o. Verify and advise Shiel Sexton / Powers, JV that hoistways are plumb as required for elevator installation prior to starting work.

p. Provide an elevator operator for 16 hours total for other trades to provide work in elevator hoistway.

q. Provide access to cab at no additional cost for specified flooring installation by others.

r. Coordinate with other Contractors performing work to construct and/or complete the hoistway, pits and landings for:
   1. Blocking and embed locations.
   2. Locations for hoist beam, pit lighting and other hoistway items.
   3. Opening & jamb dimensions.
   4. Access control.
   5. Rough-in locations of devices to be located outside of cab.
   6. Power and Fire Alarm requirements.

2. Part 1.05 Access to Site, add the following Paragraph C:

   Provide work per the attached Site Logistics Plans that were presented in Pre-Bid Meeting:


2.03 Specification Section 01 23 00—ALTERNATES

Add this section to the project manual. This section is listed in the table of contents, but was inadvertently omitted from the body of the specification.

2.04 Specification Section 05 53 00 METAL BAR GRATING

Replace paragraph 2.1-A-1-a with the following: 12-W-4 with 3” x 5/16” bars. Serrated top. Hot dip galvanize.

2.05 Specification Section 07 13 26 SELF-ADHERING SHEET WATERPROOFING

Add this section to the project manual. This section was never listed in the table of contents.

2.06 Specification Section 07 14 16 COLD FLUID-APPLIED WATERPROOFING

A. Part 2, 2.01, Paragraph A, add the following: “2. Application: Install at below-grade vertical walls around elevator pits.”

B. Part 2, 2.01, Paragraph B: Delete in its entirety.
PART 3 – DRAWINGS:

3.01 S202 – SLAB ON GRADE PLAN – AREA A
A. Loading dock stair near D.7-1 is shown with 5 steps. Revise to 2 steps to match site grading.

3.02 S205 – SECOND LEVEL FRAMING PLAN – AREA B
A. Replace with attached updated sheet. Revised beam size along 8 between A and B.

3.03 S212 – EXISTING TUNNEL SECTIONS AND DETAILS
A. Replace with attached updated sheet. Clarified waterproofing requirements.

3.04 S213 – EXISTING TUNNEL SECTIONS AND DETAILS
A. Replace with attached updated sheet. Updated grating requirements and clarified waterproofing requirements.

3.05 S330 – TYPICAL SLAB ON GRADE DETAILS
A. Section 12/S330 shows 5 steps. Revise to 2 steps to match site grading.

3.06 S500 – EMBED PLATES AND ANCHOR RODS
A. Replace with attached updated sheet. Revised anchor rod sizes in details 9, 14 and 15.

3.07 S560 – PENTHOUSE SCREEN WALL ELEVATIONS
A. Change the top of steel (T/S) height on the penthouse screen walls from 144’-7” to 143’-0”.

3.08 S573 – CLADDING BACKUP SECTIONS AND DETAILS

3.09 A205 – PENTHOUSE FLOOR PLAN
A. Add drawing to this set. This information includes dimensions for loading dock.

3.10 A423 – ENLARGED VERTICAL CIRCULATION PLAN AND DETAILS
A. Change keynote 05 52 13 – A to say “1 ¼” I.D. Painted Steel Pipe Guardrail”. Apply this note change to all subsequent keynote legends on each of the A sheets.

3.11 A425 – ENLARGED VERTICAL CIRCULATION PLANS AND DETAILS
A. Detail 8 & 10: Vertical railing from pipe handrail as shown on drawings should be noted as 05 52 13 – A, and welded to the top of the stringer.
Attachments

Pre-bid Meeting Attendance Sheet (Sign-in)
Site Logistics Plans – Aerial Plan, Fence Plan, and Parking Plan
Drawings
S205
S212
S213
S500
S573
A205

Full Specification Sections
01 23 00 ALTERNATES
07 13 26 SELF-ADHERING SHEET WATERPROOFING

End of Addendum No. 1
1. RELATED DOCUMENTS

   A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

2. SUMMARY

   A. Section includes administrative and procedural requirements for alternates.

3. DEFINITIONS

   A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

      1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.

      2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

4. PROCEDURES

   A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

      1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

   B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

   C. Execute accepted alternates under the same conditions as other work of the Contract.

   D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.
PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Payment and Performance Bond

1. \textbf{Base Bid:} A payment and performance bond is not required.

2. \textbf{Alternate:} Provide a payment and performance bond for the full contract amount.

END OF SECTION
PART 1 - GENERAL

1.01 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY
A. Section Includes:
   1. Modified bituminous deck-paving sheet waterproofing at tunnel.

1.03 PREINSTALLATION MEETINGS
A. Preinstallation Conference: Conduct conference at Project site.
   1. Review waterproofing requirements including surface preparation, substrate condition and pretreatment, minimum curing period, forecasted weather conditions, special details and sheet flashings, installation procedures, testing and inspection procedures, and protection and repairs.

1.04 ACTION SUBMITTALS
A. Product Data: For each type of product.
   1. Include construction details, material descriptions, and tested physical and performance properties of waterproofing.
   2. Include manufacturer's written instructions for evaluating, preparing, and treating substrate.

B. LEED Submittals:
   1. Product Certificates for Credit MR 5: For products and materials required to comply with requirements for regional materials, certificates indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating distance to Project, cost for each regional material, and fraction by weight that is considered regional.

C. Shop Drawings: Show locations and extent of waterproofing and details of substrate joints and cracks, sheet flashings, penetrations, inside and outside corners, tie-ins with adjoining waterproofing, and other termination conditions.
   1. Include setting drawings showing layout, sizes, sections, profiles, and joint details of pedestal-supported concrete pavers.

1.05 INFORMATIONAL SUBMITTALS
A. Qualification Data: For Installer.

B. Field quality-control reports.
C. Sample Warranties: For special warranties.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by waterproofing manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver liquid materials to Project site in original packages with seals unbroken, labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by waterproofing manufacturer.

C. Protect stored materials from direct sunlight.

1.08 FIELD CONDITIONS

A. Environmental Limitations: Apply waterproofing within the range of ambient and substrate temperatures recommended by waterproofing manufacturer. Do not apply waterproofing to a damp or wet substrate.

1. Do not apply waterproofing in snow, rain, fog, or mist.

B. Maintain adequate ventilation during preparation and application of waterproofing materials.

1.09 WARRANTY

A. Special Manufacturer's Warranty: Written warranty, signed by waterproofing manufacturer agreeing to replace waterproofing material that does not comply with requirements or that does not remain watertight during specified warranty period.

1. Warranty does not include failure of waterproofing due to failure of substrate prepared and treated according to requirements or formation of new joints and cracks in substrate exceeding 1/16 inch in width.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MATERIALS, GENERAL

A. Source Limitations for Waterproofing System: Obtain waterproofing materials from single source from single manufacturer.

B. Source Limitations for Plaza-Deck Paving: Obtain plaza-deck pavers and paver pedestals from single source from single manufacturer.

2.02 MODIFIED BITUMINOUS DECK-PAVING SHEET WATERPROOFING

A. Modified Bituminous Deck-Paving Sheet: Minimum 70-mil nominal thickness, self-adhering sheets designed to be overlaid with asphalt paving; consisting of rubberized-
asphalt membrane with woven or nonwoven fabric reinforcement laminated to one surface or embedded within the membrane, and with release liner on adhesive side.

1. Basis of Design: Subject to compliance with requirements, provide Carlisle, Pave CCW-711-70 or comparable products by one of the following:
   a. Carlisle Coatings & Waterproofing Inc.
   b. Meadows, W. R., Inc.; SealTight Mel-Dek.
   c. Polyguard Products, Inc.
   d. Protecto Wrap Company; Jiffy Seal 400.
   e. Royston, Div. of Chase Specialty Coatings

2. Physical Properties:
   a. Tensile Strength, Membrane: 50 lbf/in. (8.75 kN/m) minimum; ASTM D 882.
   b. Pliability: Unaffected when bent 180 degrees over a 1/4-inch (6.4-mm) mandrel at minus 15 deg F (minus 26 deg C); ASTM D 146.
   c. Puncture Resistance, Mesh: 100 lbf (445 N) minimum; ASTM E 154.


4. Application: Install at top of tunnels, indicated on Drawings.

2.03 AUXILIARY MATERIALS

A. General: Furnish auxiliary materials recommended by waterproofing manufacturer for intended use and compatible with sheet waterproofing.
   1. Furnish liquid-type auxiliary materials that comply with VOC limits of authorities having jurisdiction.

B. Primer: Liquid primer recommended for substrate by sheet-waterproofing material manufacturer.

C. Surface Conditioner: Liquid, waterborne surface conditioner recommended for substrate by sheet-waterproofing material manufacturer.

D. Liquid Membrane: Elastomeric, two-component liquid, cold fluid applied, of trowel grade or low viscosity.

E. Substrate Patching Membrane: Low-viscosity, two-component, modified asphalt coating.

F. Metal Termination Bars: Extruded Aluminum or formed-stainless-steel bars, approximately 1 by 1/8 inch (25 by 3 mm) thick, predrilled at 9-inch (229-mm) centers with upper flange to receive sealant.

G. Anchors: ¼-inch diameter stainless steel Metal Hit Anchor by Hilti Corp or approved equivalent.

H. Adhesives and Sealants: As recommended and approved by sheet membrane waterproofing material manufacturer.
PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the waterproofing.

1. Verify that concrete has cured and aged for minimum time period recommended in writing by waterproofing manufacturer.
2. Verify that substrate is visibly dry and within the moisture limits recommended in writing by manufacturer. Test for capillary moisture by plastic sheet method according to ASTM D 4263.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 SURFACE PREPARATION

A. Clean, prepare, and treat substrates according to manufacturer's written instructions. Provide clean, dust-free, and dry substrates for waterproofing application.

B. Mask off adjoining surfaces not receiving waterproofing to prevent spillage and overspray affecting other construction.

C. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, and other penetrating contaminants or film-forming coatings from concrete.

D. Remove fins, ridges, mortar, and other projections and fill honeycomb, aggregate pockets, holes, and other voids.

E. Prepare, fill, prime, and treat joints and cracks in substrates. Remove dust and dirt from joints and cracks according to ASTM D 4258.

1. Install sheet strips of width according to manufacturer's written instructions and center over treated construction and contraction joints and cracks exceeding a width of 1/8 inch (3 mm) for modified bituminous deck-paving waterproofing.

F. Bridge and cover isolation joints expansion joints and discontinuous deck-to-wall and deck-to-deck joints with overlapping sheet strips of widths according to manufacturer's written instructions.

G. Corners: Prepare, prime, and treat inside and outside corners according to ASTM D 6135.

1. Install membrane strips centered over vertical inside corners. Install 3/4-inch (19-mm) fillets of liquid membrane on horizontal inside corners and as follows:
   a. At deck-to-wall intersections, extend liquid membrane or sheet strips onto deck waterproofing and to finished height of sheet flashing.

H. Prepare, treat, and seal vertical and horizontal surfaces at terminations and penetrations through waterproofing and at drains and protrusions according to ASTM D 6135.
3.03 MODIFIED BITUMINOUS DECK-PAVING SHEET-WATERPROOFING APPLICATION

A. General: Confirm compatibility with adjacent waterproofing before work continues

B. Install modified bituminous deck-paving sheets according to waterproofing manufacturer's written instructions.

C. Apply primer to substrates at required rate and allow it to dry. Limit priming to areas that will be covered by sheet waterproofing in same day. Reprime areas exposed for more than 24 hours.

D. Apply and firmly adhere sheets over areas to receive waterproofing. Accurately align sheets and maintain uniform 2-1/2-inch- (64-mm-) minimum side-lap widths and 6-inch (150-mm) end laps. Overlap and seal seams and stagger end laps to ensure watertight installation.

E. Apply sheet waterproofing from low to high points of decks to ensure that laps shed water.

F. Apply continuous sheets over already-installed sheet strips, bridging substrate cracks, construction, and contraction joints.

G. Seal edges of sheet-waterproofing terminations with mastic.

H. Install sheet-waterproofing and auxiliary materials to tie into adjacent waterproofing.

I. Repair tears, voids, and lapped seams in waterproofing that do not comply with requirements. Slit and flatten fishmouths and blisters. Patch with sheet waterproofing extending 6 inches (150 mm) beyond repaired areas in all directions.

3.04 PROTECTION, REPAIR, AND CLEANING

A. Do not permit foot or vehicular traffic on unprotected membrane.

B. Protect waterproofing from damage and wear during remainder of construction period.

C. Protect installed board insulation from damage due to UV light, harmful weather exposures, physical abuse, and other causes. Provide temporary coverings where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

D. Correct deficiencies in or remove waterproofing that does not comply with requirements; repair substrates, reapply waterproofing, and repair sheet flashings.

E. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION
EXISTING TUNNEL WALL
EXISTING TUNNEL BASE SLAB

EXISTING TUNNEL TOP SLAB
HSS8x4x1/2 (LSH)
REINFORCING AT 5'-0" O.C. GALVANIZED

PAVEMENT OR PAVERS PER LA DRAWING
SELF ADHERING SHEET WATERPROOFING PER SPEC 07 13 26

EXISTING TUNNEL TOP SLAB
2'-6" (FV) 5'-0" 2'-6" (FV)
10'-0" (FV)
EXISTING W4x13 PIPE SUPPORT BEAM AT 10'-0" O.C.

EXISTING TUNNEL TOP SLAB
L8x4x1/2 (LLV) x 1'-4" LONG GALVANIZED
TACK WELD NUT TO INSIDE FACE OF TUBE IN SHOP
3/4" DIAMETER A325 BOLT (GALVANIZED)

1" DIA STAINLESS STEEL ROD (A316) DRILL AND ADHESIVE ANCHOR WITH HILTI HIT HY 200.
EMBED = 5 1/2"

EXISTING TUNNEL WALL
EXISTING TUNNEL TOP SLAB

EXISTING TUNNEL WALL
EXISTING TUNNEL TOP SLAB

EXISTING TUNNEL BASE SLAB

EXISTING TUNNEL BASE SLAB

EXISTING TUNNEL TOP SLAB
HSS8x4x1/2 (LSH)

GROUT BETWEEN TUBE AND TUNNEL TOP IS REQUIRED IF NEEDED TO PROVIDE CONTINUOUS CONTACT BETWEEN THE TUBE AND TUNNEL TOP.
IF CONTINUOUS CONTACT CAN BE ACHIEVED WITHOUT THE GROUT, GROUT CAN BE ELIMINATED.
SHELF ANGLE AT CONCRETE WALL
1 1/2" x 6'

SHELF ANGLE AT CMU WALL
1 1/2" x 6'

SHELF ANGLE AT CMU UNLTEL
1 7/8" x 6'

SHELF ANGLE AT EDGE OF SLAB
1 1/2" x 6'

SHELF ANGLE AT STEEL FRAMING
3 3/4" x 6'

SHELF ANGLE AT STEEL FRAMING
3 3/4" x 6'

SHELF ANGLE AT STEEL COLUMN
1 1/2" x 6'

SHELF ANGLE AT STEEL COLUMN
1 1/2" x 6'

SHELF ANGLE AT ROOF STEP
3 7/8" x 6'

CORNER DETAIL AT E.1 X1
1 1/2" x 6'

TUBE CONNECTION TO CMU WALL
1 1/2" x 6'

SHELF ANGLE AT OFFICE EDGE
OVERLOOKING DINING
2 1/2" x 6'

SHELF ANGLE AT EAST ENTRY
2 1/2" x 6'

TYPICAL SPACER PLATE WELD
2 1/2" x 6'
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all requirements of the Contract. On the basis of the general scope indicated or described, proper execution and completion of the work.
Phase 2 - North Dining Facility
Site Logistics
05 / 25 / 2018

Subcontractor Route - Enter & Exit

SSP Locations
Jobsite Trailer
McKinley Road
Reconfiguration

Student Path
Subcontractor Route - Enter & Exit
- Driven Fence Posts
- Fence Panels on Stanchions
- Emergency Egress Sidewalk
**Project Title:** Prebid Conference – North Dining Facility Bid Package #1  
**Date:** May 29, 2018 at 9:30 a.m. EDT

<table>
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<th>Name</th>
<th>Company</th>
<th>E-Mail</th>
<th>Phone</th>
</tr>
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<tr>
<td>June Sanders</td>
<td>BSU Purchasing</td>
<td><a href="mailto:jssanders3@bsu.edu">jssanders3@bsu.edu</a></td>
<td>765-285-1548</td>
</tr>
<tr>
<td>FRED KOCH</td>
<td>Murphy ELEVATOR</td>
<td><a href="mailto:FRED@MURPHYELEVATOR.COM">FRED@MURPHYELEVATOR.COM</a></td>
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