University of Nebraska Lincoln

ADDENDUM NO. 1

PROJECT NAME: **UNL Devaney Sports Center Improvements**
UNL PROJECT NUMBER: **C100P098**

Design Professionals:
Sinclair Hille Architects – Architects
Engineering Technologies, Inc. – Mechanical/Electrical Engineers
Nielsen-Baumert Engineering – Structural Engineers
Erhart Griffin & Associates – Civil Engineering
Wrightson, Johnson, Haddon, & Williams Inc. – Audio/Visual Consultant

DATE OF ISSUANCE: **Friday, March 30, 2011**

DATE OF BID OPENING: **Wednesday, April 18, 2011**

The bid documents dated March 21, 2012 for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

GENERAL CLARIFICATIONS

1. PHASING. Attached is a narrative outlining a 'basis-of-design" phasing plan for the work in this project. This includes direction as to which parts of the project need to be completed by a certain fixed date and other items that can be completed based on the bidders means and methods. The intention of this narrative is not to eliminate any schedule a bidder wants to utilize that would complete the work sooner than this outline schedule indicates. (See attached Phasing Narrative and Phasing Plans)

MODIFICATIONS TO THE DRAWINGS

Demolition Drawings

1. CLARIFICATION: The intent of the demolition in the work areas is for the Contractor to remove all items currently attached to the walls, particularly in the corridors, concourse areas, and arena seating bowl. Specifically, this includes removal of all banners, graphics, and surface mounted devices. All televisions and brackets are to be removed and salvaged for the Owner. All signage and advertising items are to be removed and salvaged for the Owner.
2. VCT DEMO—delete any reference to removal of VCT by the Contractor. The VCT flooring is asbestos containing material and is being removed by the Owner prior to construction in the areas affected by work in the project. If additional removal of VCT flooring is required, contact the Owner to have the flooring removed.

Sheet A100.A

1. In Equipment 173B, there is a note 105626.A referencing the re-configuration of the existing high density storage system. The existing system was provided and installed by Midwest Storage Solutions of Omaha. MSS has also designed and prepared a cost for

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the revised layout including the additional equipment to be installed. The bidders for this project shall contact MCC for the cost of the removal and reinstallation of the high-density storage system. This cost along with any cost for coordination by the bidder as general contractor shall be included in the Base Bid. Note that in the Phasing narrative, the shelving reconfiguration is included in the work in Equipment 173B that is to commence as soon as possible in May and be completed by June 30, 2012.

Sheet S501

1. Revise Note 4 to read as follows: Gravity support for all window wall, GFRC, and metal panel framing components is provided by the foundation wall at Elevation 103'-10" (2&3/S502), or the W14X43 at Elevation 114'-6" (14/S402), and the W12X26 at Elevation 127'-8" (7/S502). No gravity support is provided by the girts or other spandrel members.

Sheet S601

1. Revise title of Detail 2 to read Phase 1 & 2 Building Section.
2. Details 3 and 4 - Revise note at the bottom of Column 11A to read "New Bracing - Installed in Phase 2". Also revise the note at the bottom of Column 10b to read "Lower Portion.....Phase 2".

MODIFICATIONS TO THE PROJECT MANUAL

TABLE OF CONTENTS "

1. Delete Section 092400 "Plaster Ceiling Finishes".
2. Add Section 092613 "Direct Applied Ceiling Finish System".
3. Change Title of Section 321373 to "Paving Joint Sealants".

Section 087100 "Door Hardware"

1. In the Hardware Sets, delete the door position switches and power supplies listed. The position switches and power supplies are to be provided by sub-contractor for the work in Section 28 13 00 "Access Control".
2. Refer to Hardware Sets 10, 11, 26, 28, 30, 35 and 44 – change the model number for the Electrified Hinge from TEF 2 to **TEF 2+4**. Also note that the manufacturer is **Marray,** not Murray.
3. Refer to Hardware Set 13 – change the Magnetic Lock model from DM62 to **DM62 D** to include a door position switch with the lock.

Section 092400 "Plaster Ceiling Finishes"

1. This section is listed in the Table of Contents but is not in the Project Manual. This section was replaced by Section 092613 "Direct Applied Ceiling Finish System" which is in the Project Manual.

Section 281300 "Access Control"

1. CLARIFICATION: As noted in Paragraphs 2.3.F. and 2.3.G., the door position switches and power supplies are to be provided under this section. The position switches and power supplies are being deleted by this Addendum from Section 087100 "Door Hardware".

Section 321373 "Concrete Paving and Joint Sealants"

1. This section is listed in the Table of Contents but is not in the Project Manual. Note the correct name is "Paving Joint Sealants". This Section is being added as part of this Addendum. (See Attachments).

ATTACHMENTS

1. Basis of Design Phasing Narrative (5 pages)
2. Basis of Design Phasing Plans (3 pages)
3. Specification Section 321373 "Paving Joint Sealants" (3 pages).

END OF ADDENDUM NO. 1

BASIS OF DESIGN PHASING NARRATIVE

PHASE 1 (May 7, 2012 to November 1, 2012)

Work begins after UNL Spring Commencement—Saturday May 5. It is anticipated that the Notice to Proceed will be no later than May 7, 2012.

The major events scheduled in Devaney during this phase include the Jehovah's Witness' convention July 5 to July 8, and UNL Commencement on August 18. Provision of exit paths and numbers of plumbing fixtures available to the public will need to be coordinated.

ARENA LEVEL

The work in this Phase includes almost all of the scope in the project for the west and north parts of Arena Level.

The work in the Laundry/Equipment area including the installation of the new dryer venting and other above ceiling work needs to be mostly complete in June 2012. The laundry can be shut down for the month of June—but otherwise needs to remain operational—with the understanding by UNL that heating and cooling will not be available in this area until near the end of Phase 1. The high density storage in Storage 173B can be removed in May and needs to be back in place by end of June. To accomplish this work—demolition in the area east of the laundry needs to occur and construction of the new wall separating the Equipment space from the new Visitor Locker area needs to start at the commencement of work in May.

Hospitality 186 will be used from May until mid-July for temporary storage of athletic equipment during the renovation of the Laundry area. Work in Hospitality 186 can commence after this time.

The new staff and officials lockers and public restrooms east of Hospitality 186 will be complete except that HVAC will need to be provided on a temporary basis from the SW AHU. Completion of the final HVAC from the SW AHU is in Phase 3.

The north restroom work includes removal of ceilings for demolition and replacement of ductwork and other items. Install new ceilings and lighting. (Final finish renovation of these restrooms is in Phase 3.)

The new door in the wall between the swimming pool and arena for Storage is to be installed as part of Phase 1.

It is anticipated that replacement of the freight elevator will need to be in Phase 3 unless the new elevator can be installed by the end of Phase 1.

If the north corridor terrazzo alternate is accepted, this work will be in Phase 1.

Phase 1 includes the demolition and replacement of the NE and NW AHUs.

The existing Athletic Medicine area will have its HVAC supply switched from the SW Mechanical Room to the new NW AHU as part of Phase 1. This will require some removal and replacement of ceilings in this area in addition to the M/E work.

The electrical switchgear changeover is being performed by UNL Unit Price contractors in May 2012. The GC work in this phase is to include the installation of the new emergency generator.

The audio system in Hospitality 186 is in Phase 1 work and is designed around a new centralized DSP system. The core for this new system and associated infrastructure should be installed alongside the existing system in the west mezzanine. (The existing system will ultimately be replaced in Phase 3 when the seating bowl audio system is upgraded.)

CONCOURSE LEVEL

Phase 1 includes the west restroom and concessions areas—either as the base bid or the alternate. This plumbing should be done while the work is going on below to avoid construction in finished space as much as possible.

The east concession/restroom work should also be part of Phase 1—but completion may be allowed to extend into Phase 2 if needed, provided adequate numbers of plumbing fixtures are available to the public. In both restrooms, work in 2012 needs to start on the end areas as the some of the existing restrooms need to stay in service for the Jehovah's Witness convention in July and for UNL's August Commencement.

The smoke evac system will be installed with the restroom/concessions work and will allow reducing egress width at the south entry during other construction phases.

The new glazing at the SE corner could be installed in this phase with the east concessions remodel—or it could be done in a later phase.

New steel columns will be installed at Grid 14 at the south façade from concourse level to the underside of the opening.

CLUB LEVEL

No work this phase.

SEATING BOWL

No work this phase.

UPPER ARENA MECHANICAL ROOMS

No work this phase.

SITEWORK

Establish staging areas and contract limit fencing.

Install emergency generator (and concrete screen wall?)

(Install concrete screen wall at existing transformer?)

PHASE 2 (November 1, 2012 to March 2013)

Winter sports—basketball, wrestling, and gymnastics are ongoing through this phase.

December commencement is held in Devaney.

ARENA LEVEL

This phase includes the demolition of all space in the existing south office area. Work includes removal of the existing floor slab for new footings and under floor plumbing. Construction of the steel structure for the new Club Level can proceed to the underside of the concourse floor in preparation for extending this structure in Phase 3. Once the slabs are replaced work can be begin on the interior renovation with final completion by the end of Phase 3.

Piping and other utilities in the existing south corridor ceiling are to be routed north to allow for the future concourse floor opening.

This Phase includes the demolition and replacement of the SE AHU. Final completion of this work is by the end of Phase 3.

CONCOURSE LEVEL

No work this phase.

CLUB LEVEL

No work this phase.

SEATING BOWL

No work this phase.

UPPER ARENA MECHANICAL ROOMS

No work this phase.

SITEWORK

No work this phase.

PHASE 3 (March 2013 to August 24, 2013)

No major events in Devaney during this Phase.

Volleyball plans to play their intra-squad match on August 24 in the renovated Devaney bowl.

ARENA LEVEL

The work in the Volleyball Locker/Lounge and the Track/Olympic office space will be mostly completed in this phase. The main south entrance will not be complete due to work in the south lobby needing to extend into later phases. Access to these areas will be through the new east and west entry doors of the south office/locker block.

The major work in the south lobby cannot occur starting in Phase 3 as the new concourse floor opening cannot be cut out until the south ramp is removed—which occurs in Phase 5.

Finish renovation of the north restrooms with salvaged tile from the south restrooms for the floor and wall repair.

The new freight elevator is installed in the existing shaft.

This Phase includes the demolition and replacement of the SW AHU. This will include the final HVAC installation in the area east of Hospitality 186.

CONCOURSE LEVEL

The seat risers below the new club level floor are removed. The existing vomitories along the south side are removed and the new opening and steps constructed into the seating bowl.

Steel structure is installed through the Concourse space to support Club Level.

The SE and SW stairs (and SW stair shaft) are extended to Club Level and egress door in the with new egress doors at Arena Level.

The existing south passenger elevator is removed, the new pit and shaft are constructed and new passenger elevator installed.

The north vestibule and façade could be part of Phase 3 (or part of Phase 5).

CLUB LEVEL

The entire Club Level and the great wall are completed in this phase.

The upper south entrance curtain wall assembly from Club Level to the top of the opening is installed. (The lower part will need to be installed as part of Phase 5 after the entry bridge is removed.)

SEATING BOWL

The existing court lighting system is taken down, refurbished, and reinstalled.

The modification and updating of the audio system will be accomplished.

There are also a number of separate contracts that UNL will have in place for installation of various equipment and systems in the bowl. The schedule for these items is to be coordinated by the Contractor. These include:

The installation of the house reduction curtain system.
The new video scoreboards are installed.
The suspended “truss” feature is installed.
The championship banner assembly is installed.
New retractable bleacher units are installed.
The upholstered seat cushions are replaced in Sections B and C.
The existing wood competition floor is refinished.

UPPER ARENA MECHANICAL ROOMS

The replacement and upgrading of the upper AHUs begins in the SE and SW mechanical rooms. The SE mechanical room includes the new AHU for Club Level.

The work at the NE and NW mechanical rooms may occur at the same time—or may be accomplished in a later phase.

SITEWORK

No work in this phase.

PHASE 4 (August 25, 2013 to February 2014)

Volleyball competition occurs in Devaney.

Winter sports—wrestling and gymnastics are ongoing through this phase.

December commencement is held in Devaney.

ARENA LEVEL

No work in this phase.

CONCOURSE LEVEL

No work in this phase.

CLUB LEVEL

Work complete.

SEATING BOWL

Work complete.

UPPER ARENA MECHANICAL ROOMS

The replacement and upgrading of the AHUs at the NE and NW mechanical rooms may occur if not completed in Phase 3.

SITE WORK

Demolition of the existing track office building and work in the parking lot may occur in this phase or as part of Phase 5.

PHASE 5 (March 2014 to August 15 2014)

Substantial Completion for the entire Devaney Center Improvement Project is to be no later than August 15, 2014.

ARENA LEVEL

This Phase includes the demolition and removal of the existing south ramp and entry bridge to concourse level.

Once the ramp is removed, the major work at the south lobby can begin with the cutting of the new opening in the concourse floor.

The south lobby and main entrance to the Track Office and Volleyball Lounge will be completed.

The existing SW concessions stand, ticket offices, and operations space along the south wall will be demolished with construction of the new south vestibule, ticket office, and SW custodial space.

The exterior work at the south façade will be completed.

The fire sprinklers in the existing pool, gymnasium practice space, and north corridor need to be installed.

CONCOURSE LEVEL

Cutting and removal of slab and structural steel at the new floor opening.

Completion of the new south lobby space in the areas around the opening.

The exterior work at the south façade including the lower portion of the curtain wall assembly will be completed.

CLUB LEVEL

Work complete.

UPPER ARENA MECHANICAL ROOMS

The replacement and upgrading of the AHUs in the upper NE and NW mechanical rooms may occur if not completed in Phase 4.

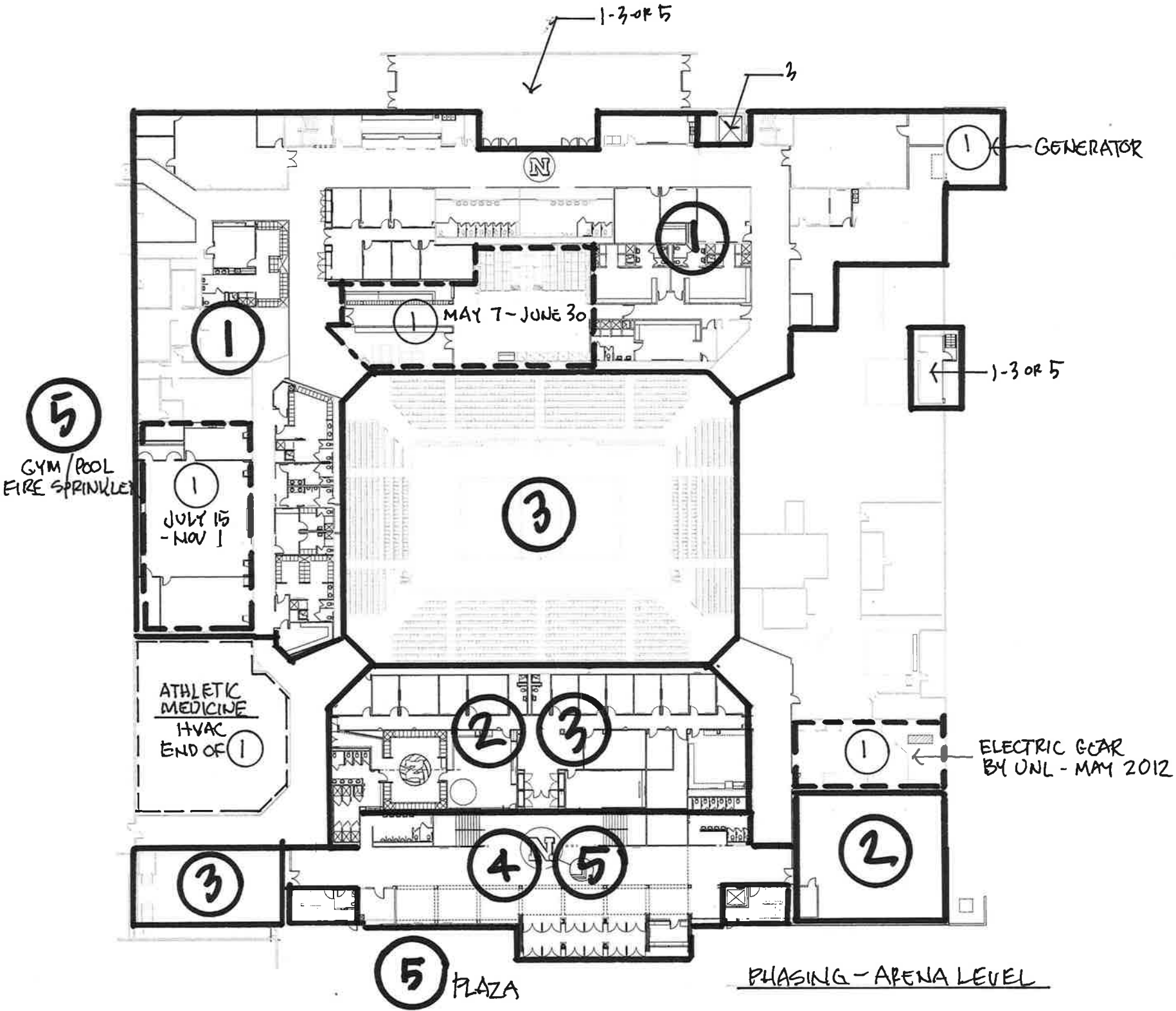
SITE WORK

This Phase includes the demolition and removal of the existing south ramp and entry bridge to concourse level.

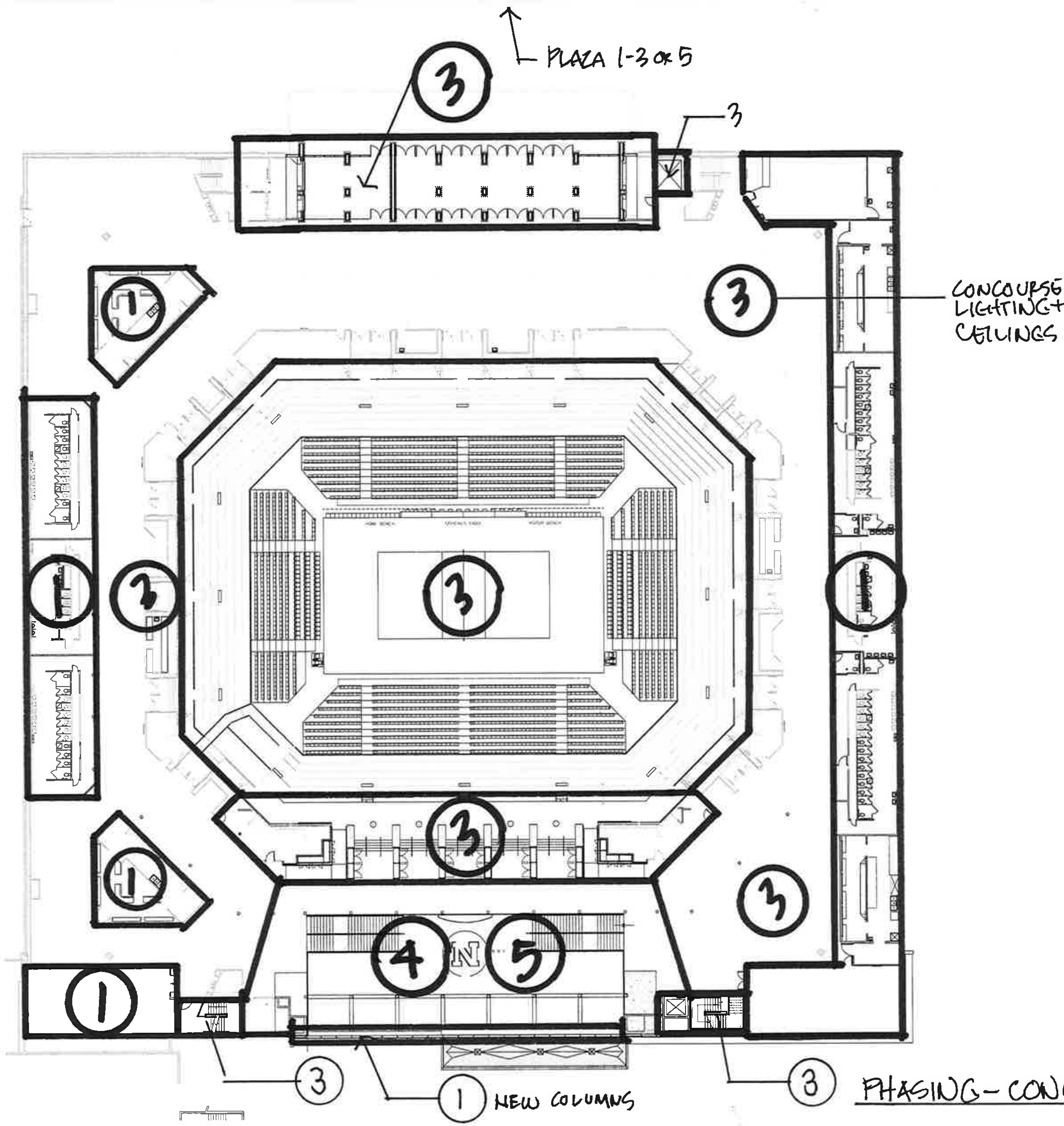
The new south plaza is constructed.

Demolition of the existing track office building and work in the parking lot may occur in this phase if not done in Phase 4.

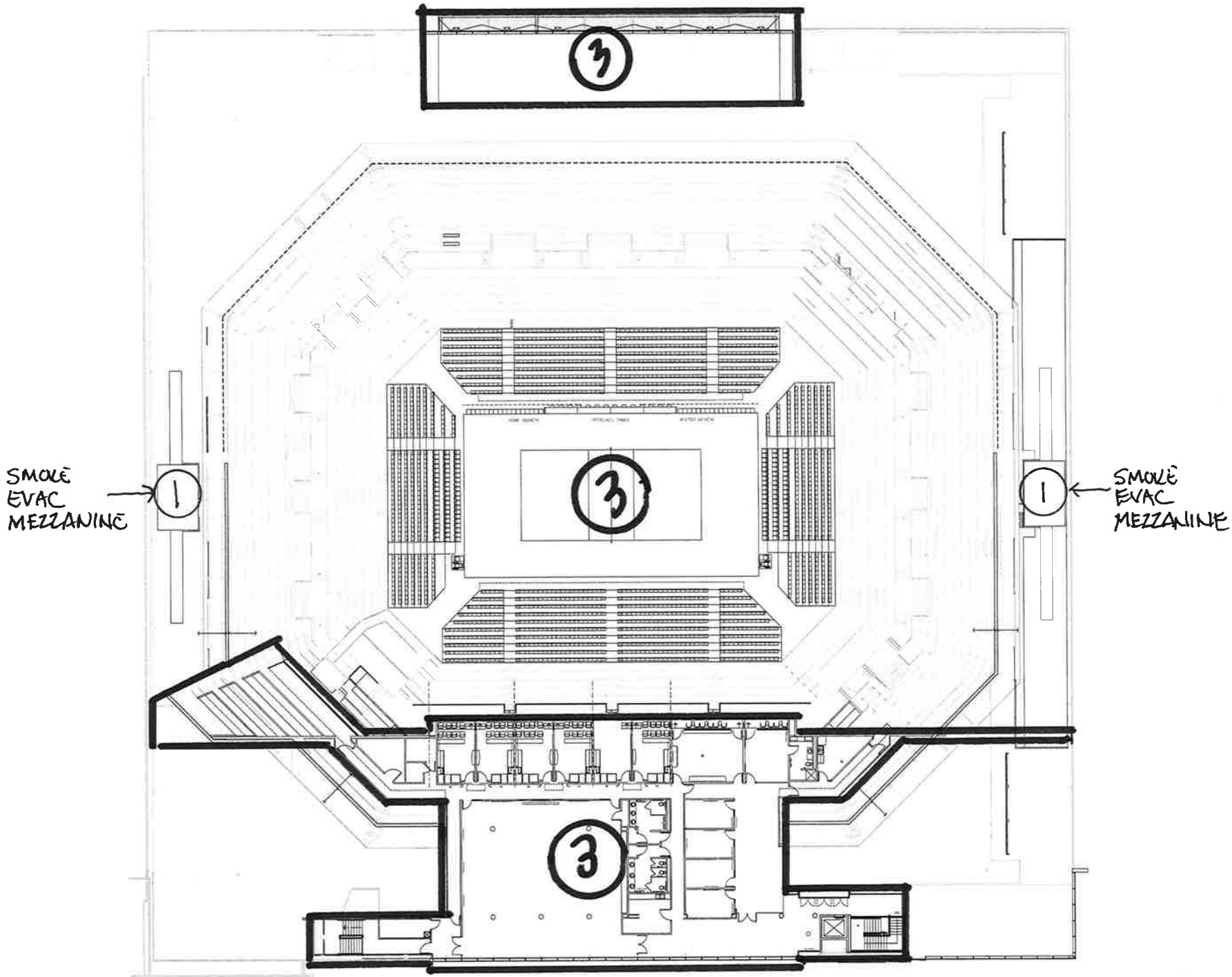
END OF NARRATIVE



PHASING - ARENA LEVEL



PHASING - CONCOURSE



PHASING - CLUB LEVEL

SECTION 321373 – PAVING JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Cold-applied joint sealants.

B. Related Sections:

1. Division 07 Section "Joint Sealants" for sealing nontraffic and traffic joints in locations not specified in this Section.
2. Section 321313 "Concrete Paving" for constructing joints in concrete pavement.

1.3 SUBMITTALS

A. Product Data: For each joint-sealant product indicated.

B. Samples for Verification: For each kind and color of joint sealant required.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain each type of joint sealant from single source from single manufacturer.

1.5 PROJECT CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F (5 deg C).
2. When joint substrates are wet.
3. Where joint widths are less than allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joints..

PART 2 - PRODUCTS

2.1 MATERIALS

A. Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Owner from manufacturer's full range.

2.2 COLD-APPLIED JOINT SEALANTS

A. Single-Component, Pourable, Traffic-Grade, Urethane Joint Sealant: ASTM C 920, Type S, Grade P, Class 25, for Use T or M.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

a. BASF Building Systems; Sonolastic SL 1.
b. Bostik, Inc.; Chem-Calk 950.
c. Pecora Corporation; Urexpan NR-201.
d. Polymeric Systems, Inc.; Flexiprene 952.
e. Sika Corporation. Construction Products Division; Sikaflex - 1CSL.
f. Tremco Incorporated; Vulkem 45.

2.3 JOINT-SEALANT BACKER MATERIALS

A. General: Provide joint-sealant backer materials that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by joint-sealant manufacturer based on field experience and laboratory testing.

B. Closed Cell Polyethylene Backer Rod, ASTM C1330, Type C.

1. Product: Provide the following product or an approved substitution:

a. Degussa Building Systems; Sonolastic Closed-Cell Backer-Rod..

2.4 PRIMERS

A. Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.

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

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.

B. Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

3.3 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.

B. Joint-Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install joint-sealant backings of kind indicated to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

1. Do not leave gaps between ends of joint-sealant backings.
2. Do not stretch, twist, puncture, or tear joint-sealant backings.
3. Remove absorbent joint-sealant backings that have become wet before sealant application and replace them with dry materials.

D. Install joint sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place joint sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

E. Provide joint configuration to comply with joint-sealant manufacturer's written instructions unless otherwise indicated.

3.4 CLEANING

A. Clean off excess joint sealant or sealant smears adjacent to joints as the Work progresses, by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.5 PROTECTION

A. Protect joint sealants, during and after curing period, from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately and replace with joint sealant so installations in repaired areas are indistinguishable from the original work.

END OF SECTION 321373