addendum

Various DNR Properties – ADA Compliant Playground Improvements
IDOA Project #E010-017A

Addendum #3 – January 3, 2018

This addendum is being issued prior to the date for receiving bids.

The modifications, additional data and specifications included herein shall be incorporated into the Project Manual for the above-mentioned project. All other provisions of the Drawings and Specifications shall remain unchanged.

This addendum is issued in accordance with the provisions of Information for Bidders section of the Project Manual. All bids shall be based upon work as modified by this Addendum or Prior Addenda.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may subject the bidder to disqualification. This addendum forms a part of the Contract Documents.

GENERAL CLARIFICATIONS & SUPPLEMENTAL INFORMATION

ITEM #1: Written record and/or additional documentation of full compliance with the requirements of the project specification should have been submitted no later than 12:00pm (local Indianapolis time), Wednesday, January 3, 2018 to the Design Consultant for substitution consideration.

For purposes of clarity in response to the several questions to date, please see the following additional General Notes that shall apply to all work at all locations:

ITEM #2: The Contractor shall be responsible for all portions of the work to conform to ADA; therefore, the Contractor shall be responsible for all final grades in the area of work to be in full conformance with ADA including but not limited to ADA parking spaces, access aisles, access pathways, and playground surfaces. If ADA parking space(s) and/or access aisle(s) are indicated in an area of existing pavement that would not comply with the ADA slope requirements; then the contractor shall make it compliant through reconstruction and/or wedging-and-leveling (in the case of asphalt); all pavement work will meet the requirements of the Contract Documents and current INDOT specifications as applicable. All final grades including those that must be ADA compliant shall also maintain positive drainage. The contractor shall transition the ADA parking space(s) and access aisle(s) grades starting at their perimeter edge to meet the existing grades of adjoining pavement at a slope not exceeding 7%.

ITEM #3: In order to accommodate and/or coordinate with final ADA compliant grades, the contractor shall be responsible for avoiding and/or
ITEM #4: The contractor shall be responsible to remove any conflicting tree(s) including grubbing of stump and roots as necessary to install the work complete and in full conformance to the Contract Documents. Contractor shall not remove those trees indicated in a layout plan for protection. Contractor shall seek permission from the Owner prior to cutting any tree.

PHONE, EMAIL, AND PRE-BID MEETING QUESTIONS & ANSWERS

QUESTION #1: Is prevailing wage required for playground installers?
ANSWER #1: There are no common construction wage requirements included as part of this project.

QUESTION #2: Detail 6/C504 shows a 5’ diameter by 12’ deep dry-well. In general, to provide that design would require a set of equipment that would likely be mobilized for the other work. In addition, we have observed rock in the vicinity of several of the project sites that may limit the depth of excavation. Can the design change to accommodate these conditions?
ANSWER #2: See revised detail 6/C504. Consult with Project Engineer prior to installation for final location and drywell depth.

QUESTION #3: There are a few conditions which do not appear to be accurately addressed on the sheet SD-B6 for Turkey Run. These conditions include: the addition of roughly two feet of fill at the existing drinking fountain, removal of a significant tree on the west side of the existing playground, and significant modification to the layout shown for the walkway. How will these issues be addressed?
ANSWER #3: The contractor shall bid as per layout plan issued for bid for Turkey Run. The contractor shall be responsible for adjusting the height of the drinking fountain to accommodate and coordinate final constructed grades. Final constructed grades shall be as required to meet ADA and/or Contract Document requirements. Contractor shall remove conflicting trees including grubbing of stump and roots as necessary to install the work complete and in full conformance to the Contract Documents.

QUESTION #4: At Shakamak State Park, Sheet SD208 calls for re-striping of pavement in an area that is not paved. The area is actually a layer of loose grave
spread over an old layer of oil and gravel. The drawings do not call for new pavement. Will new pavement be required?

ANSWER #4: Yes, Bidding Contractor shall provide new concrete pavement for extent of proposed parking stalls as detailed per 3/SD501.

QUESTION #5: On Sheet SD501, Detail 6 and 7 both appear to call for a slope toward the perimeter sub-drain for the compacted #53 layer. This slope appears to contradict level grade clearly shown in all of the cross sections on sheets SD301 and SD302.

ANSWER #5: Contractor shall construct playground sub-base as detailed on sheet SD301 and SD302. Contractor shall provide positive drainage.

QUESTION #6: At Starve Hollow State Recreation Area, the proposed access pathway will require new concrete work in close proximity to mature trees as well as the building. The existing asphalt paths manifest impact from tree roots. There will likely be significant "field design" as well as input/review by DNR, for those walkways to be installed in a way that will not conflict with the root system of those trees, but will still be ADA compliant. How shall this be addressed?

ANSWER #6: Contractor shall remove conflicting trees including grubbing of stump and roots as necessary to install the work complete and in full conformance to the Contract Documents.

QUESTION #7: It appears that the designated location for the proposed playground and the grades of existing pavement are too steep to be ADA compliant at Deam Lake. The plan calls for construction of adjacent curbs, but do not provide grades. Is this area to be re-built by the Contractor as ADA compliant?

ANSWER #7: Contractor shall be responsible for all portions of the work to conform to ADA; therefore, Contractor shall be responsible for all final grades in the area of work to be in full conformance with ADA including but not limited to ADA parking space(s) and access aisle(s).

QUESTION #8: According to the plan, the new 6’ wide access pathway will be accessed from the existing sidewalk at Patoka Lake. The existing sidewalk appears to be 48” wide. Please clarify what responsibility the Contractor will or will not have for any modification to the existing walkway.

ANSWER #8: The existing sidewalk is intended to remain in place. Contractor will not be required to modify the existing walkway as part of this Contract.

QUESTION #9: According to the plans, the existing play equipment at Patoka Lake is to be protected in place, whereas the play surface and containment band will be redone. There are no grades shown on the plans, and it appears that the border (and the play area) are not level. Have grades been
checked and verified that a level surface as shown by the plan will work with the current vertical locations of the equipment? What is the responsibility of the Contractor in this matter?

**ANSWER #9:** Finish grade of play area shall match elevation of play equipment to align with manufacturer’s fall height. Contractor shall be required to be make field adjustments as necessary to complete the work in full compliance with the requirements of ADA and the Contract Documents.

**QUESTION #10:** It appears that the new parking stalls at Martin State Forest will not have sufficient distance for maneuverability in/out of them, without widening the exiting asphalt drive. Please clarify what will the Contractor’s responsibility in this matter.

**ANSWER #10:** The Contractor shall not be required to widen the asphalt drive as part of this Contract.

**QUESTION #11:** At Potato Creek, will the memorial bench be removed, stored, and re-installed by DNR forces, or will that be the responsibility of the Contractor?

**ANSWER #11:** The memorial bench shall be the responsibility of the State.

**QUESTION #12:** There is an existing catch basin and storm drain in conflict with the design shown for the parking at Trine State Recreation Area. Will resolution of that conflict be the responsibility of the Contractor?

**ANSWER #12:** See Revision to Drawings, sheet SD210. The existing catch basin shall remain in place. Contractor shall protect basin from damage during extent of Work. Contractor shall provide erosion/sediment control measures per the specifications.

**QUESTION #13:** At Green-Sullivan State Forest, the layout shown by drawings SD103, and SD203 appears to represent the positions of the existing trees inaccurately. The actual tree positions relative to the shelter structure are different than shown on the plans. Additional tree removals of significant size would be required to accommodate the playground shown.

**ANSWER #13:** See Revision to Drawings, sheet SD103. Contractor shall remove conflicting trees including grubbing of stump and roots as necessary to install the work complete and in full conformance to the Contract Documents.

**QUESTION #14:** To place a level playground as shown on the layout plan for Green-Sullivan State Forest would necessitate a significant cut slope [nothing is shown on the plan regarding that condition]. How should this issue be addressed?
ANSWER #14: Contractor shall be required to be make field adjustments as necessary to complete the work in full compliance with the requirements of ADA and the Contract Documents.

QUESTION #15: Have existing grades on the pavement designated for accessible parking been checked for compliance with ADA at Green-Sullivan State Forest?

ANSWER #15: No. Information indicated on the plans are based on GIS data and aerial imagery.

QUESTION #16: For Owen-Putnam, the layout shown on Sheet SD-C5 seems to be based on an obsolete photo. The design does not appear to fit the available area. To fit a playground at this location appears to require a significant modification to the design, substantial tree removal, and the relocation of an existing waterline [not shown on the plan]. How should this issue be addressed?

ANSWER #16: Contractor shall bid as per layout plan as issued for bid for Owen-Putnam. Attached to this Addendum is a map so that the general location of the site within the property is more easily discernable.

QUESTION #17: Specific locations for things such as staging areas, silt fence installation, and concrete washouts have been determined for sites in "Plan Group A". Do you also plan to specify such details for "Plan Group B & C"? If so, when? If not, what is the proposed process for submittal, review, and approval of such matters?

ANSWER #17: Location of erosion/sediment control measures and construction staging areas are shown on the plans for reference only. Final placement shall be determined in the field by the Contractor and subject to approval by the Owner. Erosion control measures shall be in compliance with the requirements of the Specifications and consistent with the standards and best-practices of the industry.

QUESTION #18: At some of the sites, there is currently a posted weight limit on the roads leading to the facilities. In some cases, that limit is well below the weight of a concrete truck. Are those limits seasonal? If so, when would we be able to bring in heavy vehicles? At any of the 20 sites, will gross vehicle weight be limited to less than 32 tons?

ANSWER #18: Weight limits on state-owned properties will be waived for Construction Equipment as part of this Contract except for weight limits that apply to bridges, overpasses, and/or dam-top roadways within DNR properties which shall not be waived. Any waiver of roadway weight limits shall not relieve contractor of the responsibility for any damage caused to roadway and/or other pavement during construction. Contractor shall coordinate large deliveries of materials to the site with the property managers.
**ANSWER #19:** Sheet SD202 calls for the relocation of existing concrete wheel stops at Clark State Forest. The wheel stops are 1' tall, and as such, are not wheel stops. Please clarify what is intended.

**ANSWER #19:** The concrete barriers shall be salvaged and reset by the Contractor to align with the new layout of parking spaces per the plans.

**QUESTION #20:** The plans and specifications call for a 3.5” OD double arch swing. Can a single 5” OD post swing be substituted in lieu of the arch swing?

**QUESTION #20:** No. Several other existing playgrounds on state-owned properties feature a double arch swing. The intent is to provide a uniform appearance of play equipment across multiple properties.

**QUESTION #21:** Ten (10) of the twelve (12) sites indicated in Plan Groups B & C show a directional arrow within the playground with the label “1%” as if the intent is to sheet flow the surfaces. However, that would contradict the level surfaces clearly shown by the referenced cross-sections shown on Sheet SD301 and SD302.

**ANSWER #21:** The Contractor shall construct the playground surface and sub-base as detailed per the cross sections on sheets SD301 and SD302.

**QUESTION #22:** Detail 12 on sheet C504 references a concrete foundation with a "1/4-inch wash". Please clarify intent.

**ANSWER #22:** Contractor shall provide positive drainage [an approximate 1/4” elevation change] on top surface of foundation away from sign post.
**REVISIONS TO THE SPECIFICATIONS**

**ITEM #1:** REVISE specification section 321816.13 “Playground Protective Surfacing”, Part 2, Article 2.4 to include the following as approved equals:

d. Pierceton Rubber Products; 4’x3’x2” Dynacushion Wear Mat [model: R20C4836]
e. Playworld Systems; 3’x3’x1.5” Wear Mat [Model: ZZXX0038]

**ITEM #2:** REVISE specification section 116800 “Play Field Equipment and Structures”, Part 2, Article 2.4, Paragraph B, item 1 to include the following:

1) Metal Frame: Hot-dip galvanized steel or aluminum pipe or tubing with direct bolt system and finish grade line marking to indicate correct playground safety surfacing level.
   
   Ai) Main Frame Posts, Aluminum: Not less than 3 1/2” OD x 1/8” [8 GA] wall thickness.
   
   Aii) Main Frame Posts, Steel: Not less than 3 1/2” OD x 13 gauge wall thickness.

**ITEM #3:** REVISE specification section 116800 “Play Field Equipment and Structures”, Part 2, Article 2.6, Paragraph B to include the following:

B. Steel: Material types, alloys, and forms recommended by the manufacturer for type of use and finish indicated, hot-dip galvanized.
   
   a) Minimum tensile strength: 55,000 psi
   
   b) Minimum yield strength: 50,000 psi
   
   c) Hot-dip galvanized steel shall meet or exceed ASTM A123/A123M, ISO 1461, and all other applicable standards.

**REVISIONS TO THE DRAWINGS**

**ITEM #1:** REVISE sheet SD103. Revise keynote “E” on the most northeasterly existing tree within proposed playground footprint to be keynote “D”.

**ITEM #2:** REVISE sheet SD201. Revise keynote “C” to keynote “G” for bollards at perimeter of existing drive. Revise keynote “K” to keynote “M” for both western drainage outfalls.

**ITEM #3:** REVISE sheet SD204. All work associated with Patoka Lake shall be performed as part of Alternate #1 ONLY.

**ITEM #4:** REPLACE Sheet SD210 with the attached. Update parking lot layout as part of Alternate #1.

**ITEM #5:** REVISE details 2 & 6/SD302. Maintain existing containment band as indicated.

**ITEM #6:** REVISE detail 3/SD302 to reference concrete perimeter walk as detail 2/SD501.
| ITEM #7: REVISE detail 2/SD502. Adjust layout of ADA parking space. |
| ITEM #8: REVISE detail 5/SD502. Adjust mounting height of sign panel. |

**ATTACHMENTS:**

| ITEM #1: Sheet SD103 Demolition Plan |
| ITEM #2: Sheet SD201 Chain O’ Lake Layout Plan |
| ITEM #3: Sheet SD210 Trine State Recreation Area Layout Plan |
| ITEM #4: Sheet SD302 Typical Cross Sections |
| ITEM #5: Sheet SD502 Site Details |
| ITEM #6: Sheet C504 Civil Details |
| ITEM #7: Owen-Putnam State Forest Location Map |

**END OF ADDENDUM #3**
CONCRETE WASHOUT

GENERAL NOTES:

1. CONTRACTOR MAY SUBMIT ALTERNATE METHODS FOR CONCRETE DISPOSAL. MANAGE SYSTEM PER CONTINUOUS EROSION CONTROL PLAN (C201). LOCATE FACILITY AT LEAST 50' FROM MODIFIED TREE DRIP LINE. REFERENCE DETAILS ON THIS SHEET FOR PLAN GROUP A, B, C.

2. DRY WELL DETAIL

3. INLET PROTECTION (DANDY BAG) DETAILS

4. TEMPORARY TREE PROTECTION

5. UNDERDRAIN PIPE

6. RIPRAP APRON AT OUTLET

7. RIPRAP APRON AT INLET

8. JOINT LAP DETAIL

SPECIFICATIONS FOR RIPRAP REQUIREMENTS. THIS PROJECT.

INDIANA DEPARTMENT OF NATURAL RESOURCES

INDIANA DNR PLAYGROUND
SITE DESIGN IMPROVEMENTS

SHAKAMAK STATE PARK | TRINE STATE RECREATIONAL AREA

2' FROM PLAYGROUND
STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED
PLACE THE GRATE INTO ITS FRAME.

TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET US¬ING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING

OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOPLIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG II SO THAT THE GRATE IS BELOW THE EXACT POSITION OF THE INLET.

REMOVING CONTENTS ALLOWS FOR EASY DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DUMPING STRAP.

EXCAVATE A 4" X 8" DEEP TRENCH.

EXCEPT WHERE FITTED (FROM PLAYGROUND TO SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO A GRADE OF OFF SITE BY APPROVED METHOD WHEN FACILITY HAS BEEN IN EFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.

AREA WILL NOT BE LEFT IN A CONDITION THAT IS HAZARDOUS OR INEFFECTIVE.

NOT TO SCALE

SCALE: 3/4" = 1'-0"

RIPRAP APRON AT OUTLET

INLET PROTECTION (DANDY BAG) DETAILS

TEMPORARY TREE PROTECTION

UNDERDRAIN PIPE

DRY WELL DETAIL

CONCRETE WASHOUT

REFERENCE DETAILS ON THIS SHEET FOR PLAN GROUP A, B, C.
OWEN-PUTNAM STATE FOREST

Existing Picnic Shelter

Existing Office

Playground Location