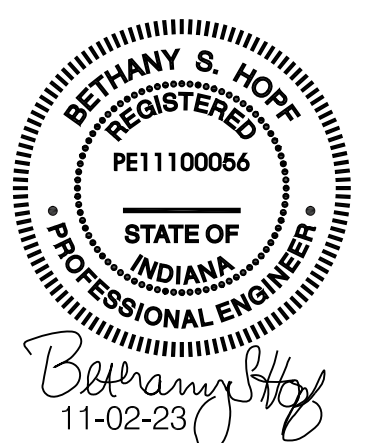


SHEET SCHEDULE

SHEET NO.	DESCRIPTION
C0.1	TITLE SHEET
C1.1	EROSION CONTROL PLAN - BASE BID
C1.2	EROSION CONTROL NARRATIVE - BASE BID
C1.3	EROSION CONTROL DETAILS - BASE BID
C2.1	DEMOLITION PLAN - BASE BID
C2.2	DEMOLITION PLAN - ALTERNATES
C3.1	SITE PLAN - BASE BID
C3.2	SITE PLAN - ALTERNATES
C3.3	DETAIL ADA PLAN - BASE BID
C4.1	GRADING PLAN - BASE BID
C4.2	GRADING PLAN - ALTERNATES
C5.1	UTILITY PLAN - BASE BID
C5.2	LIGHTING AND PHOTOMETRIC PLAN - BASE BID
C6.1	SITE DETAILS - BASE BID
C7.1	SITE LANDSCAPING PLAN - BASE BID

LINCOLN AMPHITHEATRE PARKING LOT IMPROVEMENTS

LINCOLN CITY, _____ INDIANA



DATE	11-02-23
LDA PROJECT NO.	LA23102
ENR PROJECT NO.	ENG2303730653
SHEET NO.	C0.1

MAINTENANCE OF SEDIMENT CONTROL DEVICES

Silt Fencing
Contractor shall inspect all fencing after storm events and remove sediment as required when sediment reaches 1/2 height of fence at its lowest point. Repair or replace silt fencing to good condition to be ready for next storm event. Replace ripped or damaged sections meeting manufacturer's specifications.

Inlet Protection
Contractor shall inspect all inlet protection after storm events and remove sediment in preparation for the next rain event.

Construction Entrance
Contractor shall utilize existing entrance or, if damaged, provide a construction entrance per the detail on sheet C1.3. The tracking of mud and dirt out onto the public road shall be prohibited. The contractor shall clean road surfaces if mud is tracked out onto the public road by brushing or sweeping. Flushing with water is not permitted. Contractor shall monitor and replace stone as needed to maintain minimum depths of stone during construction.

Temporary Seeding
Contractor shall provide temporary seeding of topsoil if it lays idle for a period longer than 15 days. See seeding recommendations on sheet C1.2.

Permanent Seeding
Provide permanent seeding within 7 days of final grading completion. See seeding recommendations on sheet C1.2. All seeded areas shall receive a straw mat mulch to provide seed with cover for better germination. Straw mulch shall be applied and anchored in place per the specification on sheet C1.3 meeting standards of the Indiana Storm Water Quality Manual.

Temporary Sediment Trap
Contractor shall monitor temporary sediment trap and reference stake after rain events and remove sediment as required when sediment reaches reference stake marks. Repair or replace rock outlet and dam per details on sheet C1.3 if damaged or clogged.

SNOUT Device
The SNOUT shall be maintained by Owner post construction according to manufacturer's recommendation.

NOTE
Utility lines shown on this drawing are for reference only. The lines were located using Owner supplied maps and above grade features. Contractor is responsible for site investigation and sub surface investigations in order to determine exact locations and depths of existing utilities.

TEMPORARY SEDIMENT TRAP, Constructed berm. Clear brush and undergrowth only as necessary. Minimum required basin size shown. Contractor may expand the sediment basin berm limits to avoid larger tree removal. See construction details for berm and outlet on sheet C1.3.

At completion of project and final stabilization is achieved, temporary sediment basin to be removed and area to be re-vegetated with native woodland, non-invasive species plants.



Where ditch is near work areas, work limits are nearest top of bank. Work shall not encroach into ditch.

Install silt fence along downslope sides of work areas, 10' minimum from toe of slope tie-ins. Avoid disturbing large trees with silt fence installation.

STORM WATER DISCHARGE POINT #2 SHEET FLOW

Contractor can use existing parking paved areas for staging and laydown. Coordinate with Owner prior to construction for any limitations or restrictions.

Contractor can use existing parking paved areas for staging and laydown. Coordinate with Owner prior to construction for any limitations or restrictions.

- Legend**
- [Symbol] Silt Fence
 - [Symbol] Construction Limits
 - [Symbol] SAN Existing Sanitary Sewer Main
 - [Symbol] SAN FM Existing Sanitary Sewer Force Main
 - [Symbol] W Existing Water Line
 - [Symbol] STRM Existing Storm Sewer Main
 - [Symbol] Existing Flow Line
 - [Symbol] E Existing Underground Electric Line
 - [Symbol] OHE Existing Overhead Electric Line
 - [Symbol] GAS Existing Gas Line
 - [Symbol] UC Existing Communications Line
 - [Symbol] STRM Proposed Storm Sewer Main
 - [Symbol] Proposed Swale Flow Line

- [Symbol] N Notice Sign Board
- [Symbol] D Construction Dumpster
- [Symbol] L Construction Latrine
- [Symbol] CM Inlet Protection CM = Coir Mat
- [Symbol] CWB Concrete Washout Basin with sign

EROSION AND SEDIMENT CONTROL MEASURES CONSTRUCTION SEQUENCE

It is anticipated that construction will begin on February 1, 2024 and shall be complete by May 10, 2024. Dates provided are estimates only since changes in construction dates may occur due to any number of reasons including, but not limited to, schedule changes by Owner, inclement weather, etc.

PHASE 1: SITE DEMOLITION AND EARTHWORK CONTRACTOR

- * The notice sign board shall be installed near the construction entrance at the location shown and shall include the following items:
 - Copy of the completed Notice of Intent (NOI) letter.
 - Name, Company Name, telephone number, e-mail address (if available), and address of the project site owner or a local contact person.
 - Location of the construction plan if the project site does not have an on-site location to store the plan.

- * The construction entrance will be at the existing parking lot entry drive. Contractor shall use existing paved drives as stable entrance. If pavements deteriorate, stable entrances/drives shall be installed per detail on sheet C1.3. Contractor is responsible for repairing existing drives to existing conditions at contract closeout.

- * Install sediment control fencing as shown on plan and install inlet protections on existing inlets.

- * Construct Temporary Sediment Basin.

- * Topsoil shall be stripped and shall be stockpiled on site. Provide sediment control fencing around topsoil piles as shown. Provide temporary seeding on stockpiles. Stockpile locations shown are suggested location. If other locations work better during construction, Contractor may elect to locate the stockpiles elsewhere on site. However, the stockpiles must be wrapped in silt fence no matter the location. Permanent topsoil disposal area is noted on sheet C1.2.

- * Begin the demolition work as shown and noted on the Demolition Plan on sheets C2.1 and C2.2.

- * Cut and fill the site as shown on the Grading and Drainage Plan on sheets C4.1 and C4.2. Provide temporary seeding on entire disturbed site if work does not continue for 15 days.

- * Install underground utilities as required.

- * Finish grade, place and compact rock subbase and place pavement as specified after large equipment traffic is no longer expected.

- * Repair disturbed yard areas to finish grades, replace topsoil and seed for grassed areas as specified on plans. Provide temporary seeding on entire disturbed site if work does not continue for 15 days. Final grading and stabilization of landscape areas shall be completed after paving is complete.

- * Prior to placement of any concrete, a concrete washout shall be installed per the detail on sheet C1.3. Washout location shown is suggested location. If another location works better during construction, Contractor may elect to locate the washout elsewhere on site. However, the washout must be constructed per detail and be continuously monitored and maintained no matter the location. Accumulated materials in the washout shall be removed when the volume reaches 50% of the washout capacity. After concrete removal, inspect and repair washout per details.

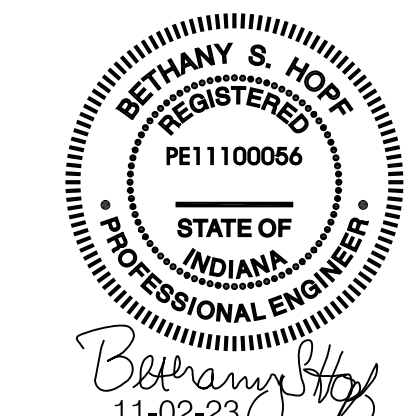
- * During construction, Contractor shall inspect and maintain all sediment control devices especially after rains until grass is growing. Inspections shall be performed by a qualified person trained in erosion control practices and shall be done weekly and after every rain event of 0.5" or greater. Inspection reports shall be kept for each inspection and stored on site. Inspections shall address the maintenance of existing storm water quality measures to ensure they are functioning properly and shall identify additional measures necessary to remain in compliance with all applicable statutes and rules. Inspection reports shall include the following information:
 - name of the individual performing the inspection
 - date of the inspection
 - problems identified at the project site
 - details of corrective actions recommended and completed

- * Upon final stabilization of site, the temporary sediment basin shall be removed and return areas to existing conditions. The silt fence and any other remaining erosion control measures may be removed. Final stabilization requires a uniform density of 70% vegetative cover in yard areas and completion of paving in paved areas. Where temporary erosion control measures are removed, if there are areas disturbed by removal, the areas shall be seeded and strawed and shall be inspected regularly to ensure full vegetation of site.

- * After site stabilization and before project closeout, the SNOUT shall be installed in the inlet indicated. Prior to SNOUT installation, the Contractor shall have the structure sump vacuumed clean to remove built up sediment and stormwater.

- * Contractor shall notify Owner and Universal Design Associates, Inc. of project completion and final site stabilization and provide site photos for submission of Notice of Termination (NOT) to the Indiana Department of Environmental Management (IDEM).

NOTE:
See sheet C1.2 for Erosion Control Narrative and Plan Index and C1.3 for Erosion Control Details.



LINCOLN AMPHITHEATRE
 PARKING LOT IMPROVEMENTS
 LINCOLN CITY, INDIANA

UNIVERSAL DESIGN ASSOCIATES, INC.

910 Main Street
 Ferdinand, IN 47532
 Phone: 812/266-72831
 design@udassoc.com
 www.udassoc.com

EROSION CONTROL PLAN
 - BASE BID

DRAWN BY: BSH
 CHECKED BY: BMS
 APPROVED BY: BSH

DATE: 11-02-23
 USA PROJECT NO.: LA23102
 INR PROJECT NO.: ENG2303730653
 SHEET NO.: C1.1

SCALE: 1" = 30'

A.1 Plan Index

A:: General Plan Requirements and Project Information

A1: Plan Index..... C1.2

A2: Vicinity Map..... C1.2

A3: Project Details, Nature and Purpose..... C1.2

A4: Latitude and Longitude..... C1.2

A5: Legal Description of Project Site..... C1.2

A6: Reduced Plan..... See attached

A7: Floodplains, Floodways, and Floodway Fringes..... C1.2

A8: Adjacent Land Use..... C1.2

A9: Identification of US EPA Approved TMDLs..... C1.2

A10: Receiving Waters..... C1.2

A11: Identification of Impaired Waters..... C1.2

A12: Soils Map..... See attached

A13: Wetlands, Lakes and Water Courses..... C1.2

A14: State or Federal Water Quality Permits..... C1.2

A15: Identification of Existing Vegetative Cover..... C1.2

A16: Existing Site Topography..... C1.1

A17: Existing Runoff Entering Site..... C1.1

A18: Existing Runoff Discharge Points..... C1.1

A19: Existing Structures (Buildings, ponds, infrastructure)..... C1.1, C1.2

A20: Existing Permanent Retention or Detention Facilities..... C1.2

A21: Identification of Potential Discharges to Groundwater..... C1.2

A22: Total Project Area..... C1.2

A23: Total Expected Land Disturbance..... C1.2

A24: Proposed Final Topography..... C1.1

A25: Locations and Approximate Boundaries of Disturbed Areas..... C1.1

A26: Location, Size and Dimensions of Proposed Stormwater System..... C1.1, C4.1, C5.1

A27: Stormwater Discharge Points..... C1.1

A28: Location of Site Improvements..... C1.1, C3.1

A29: Location of Stockpiles, Borrow and or Disposal Areas..... C1.1, C2.1

A30: Construction Support Activities..... C1.1, C1.2

A31: Location of In Stream Activities..... C1.2

B:: Construction Component

B1: Description of Potential Pollutant Sources..... C1.2

B2: Stable Construction Entrance..... C1.1, C1.2, C1.3

B3: Temporary and Permanent Surface Stabilization Methods..... C1.1, C1.2, C1.3

B4: Sediment Control Measures for Concentrated Flow..... C1.1, C1.2, C1.3

B5: Sediment Control Measures for Sheet Flow..... C1.1, C1.2, C1.3

B6: Runoff Control Measures..... C1.1, C1.2, C1.3

B7: Storm Water Outlet Protection..... C1.1

B8: Grade Stabilization Structures..... C1.2

B9: Dewatering Applications and Management Methods..... C1.2

B10: Management of Work in Waterbodies..... C1.2

B11: Monitoring and Maintenance Guidelines for Stormwater Quality Measures..... C1.1, C1.2

B12: Construction Sequence..... C1.1

B13: Erosion and Sediment Control for Individual Lots..... C1.2

B14: Material Handling and Spill Prevention Plan..... C1.2

B15: Material Handling and Storage Procedures..... C1.2

C:: Post Construction

C1: Description of Pollutants and Sources for Proposed Land Use..... C1.2

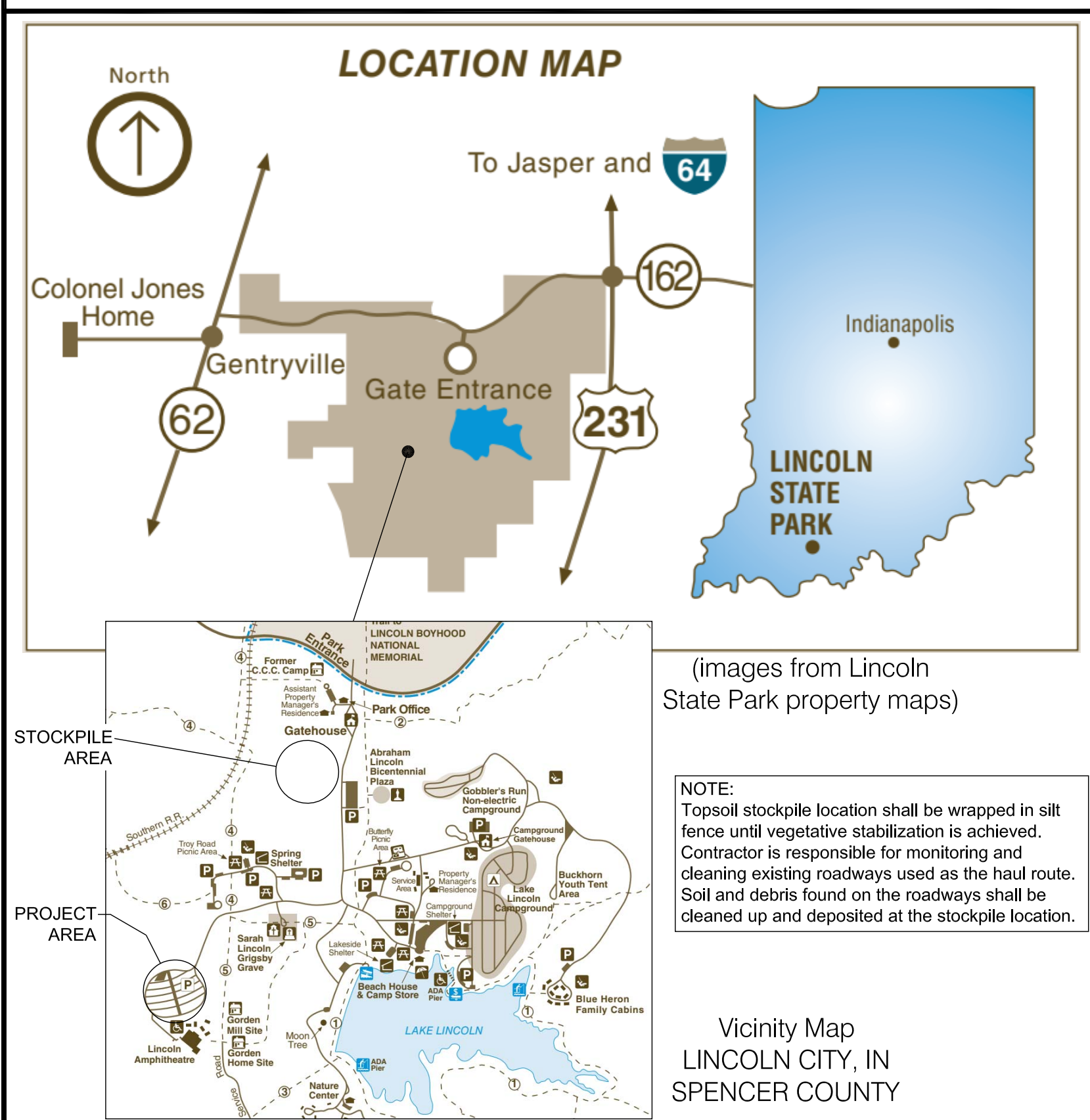
C2: Description of Proposed Post-Construction Storm Water Measures..... C1.1, C1.2

C3: Location, Dimensions, Specifications and Construction Details for Post-Construction Storm Water Quality Measures..... C1.1, C1.2, C1.3

C4: Sequence Describing Storm Water Quality Measure Implementation..... C1.1, C1.2

C5: Maintenance Guidelines for Post-Construction Measures..... C1.2

C6: Entity Responsible for Post-Construction Operation and Maintenance..... C1.2



A:: General Plan Requirements and Project Information

A1: Plan Index
This sheet at right.

A2: Vicinity Map
A vicinity map is shown on this sheet.

A3: Project Details, Nature and Purpose
The project is a Parking Lot Improvement/renovation project with associated utility and landscaping renovations. The project will require demolition, clearing, earthwork grading, utility line relocation and connections, new paving, and landscaping.

Project Name: Lincoln Amphitheater Improvements - Phase 2 (Parking Lot)

Project Owner Name: INDIANA DEPARTMENT OF NATURAL RESOURCES

Address: IN DNR, Division of Engineering
Attn: Nathan Smothers
402 W. Washington Street, Room W-299
Indianapolis, IN 46204

Phone: 317-233-4707
Email: nsmothers@dnr.in.gov

Plan Preparer Name: Bethany Hopf, P.E., Universal Design Associates, Inc.

Affiliation: Consulting Engineer

Address: 910 Main Street City: Ferdinand State: IN Zip: 47532
Phone: 812-367-2831 Fax: 812-367-2401

Email: BethanyHopf@udassoc.com

A4: Latitude and Longitude
Latitude: 38° 6' 9.2" N Longitude: 87° 1' 17.5" W

A5: Legal Description of Project Site
County: Spencer, Civil Township: Clay, Section: NE 1/4, Sec 7, T 5 S, R 5 W

A6: Reduced Plan
A reduced 11x17 plan sheet showing the project is attached.

A7: Floodplains, Floodways, and Floodway Fringes
The project site is located in Zone X, an area outside of the 0.2% chance floodplain. Just north of the project site, the Zone A limits are near the site but not in project work areas.

A8: Adjacent Land Use
The project site is located within Lincoln State Park. The areas surrounding the project site are natural forest within the state park.

A9: Identification of US EPA Approved TMDLs
The project is in the Little Pigeon Creek - Buckhorn Creek watershed with a HUC-14 number 05140201140030 and is not listed in the TMDL report.

A10: Receiving Waters
All storm-water runoff from this project site will discharge to Little Pigeon Creek - Buckhorn Creek watershed through existing unnamed tributary channels and pipe systems.

A11: Identification of Impaired Waters
According to the EPA MyWaterway website, Little Pigeon Creek - Buckhorn Creek where the project lies is listed as Good Condition in 2022.

A12: Soils Map
The project site contains the following soils according to the NRCS Web Soil Survey:
Ag - Algiers silt loam, frequently flooded, very brief duration
Sn - Stendal silt loam, 0 to 2 percent slopes, frequently flooded, brief duration
ZaC3 - Apalona-Zanesville silt loams, 6 to 12 percent slopes, severely eroded
Please see the attached soils map with locations and descriptions for reference.

A13: Wetlands, Lakes and Water Courses
According to the National Wetland Inventory Map, the site is not within a wetland. There are noted riverine habitats along the outlet ditch for the lake in Lincoln State Park, however this ditch is north/northeast of and outside of the project site area and will not be disturbed during this project.

A14: State or Federal Water Quality Permits
No other water quality permits are known to be required.

A15: Identification of Existing Ground Cover
The site is currently an asphalt parking lot area with some grassed islands with a few existing trees in the islands.

A16: Existing Site Topography
Existing site topography with 1' contours are shown on the Erosion Control Plan sheet C1.1 and spot grades are shown on sheets C4.1 and C4.2 Grading Plan.

A17: Existing Runoff Entering Site
The storm pipe discharge point shall be as detailed on sheet C5.1 to discharge flow as in existing conditions. The outlet area shall be rip rap protected as detailed.

A18: Existing Runoff Discharge Points
The existing site discharges stormwater via sheet flow and pipe flow to the north.

A19: Existing Structures (Buildings, ponds, infrastructure)
There are existing structures in the vicinity, namely the amphitheatre and its associated service buildings. However, none of these buildings are in the project scope or project limits.

A20: Existing Permanent Retention or Detention Facilities
There are no existing retention or detention facilities.

A21: Identification of Potential Discharges to Groundwater
Storm water may enter the groundwater system through normal methods of soil infiltration, however there are no known existing sinkholes, karst features, wells, or drywells within project limits. There are no wells planned for the project.

A22: Total Project Area
The project is a 6.8 acre area within the larger state park property.

A23: Total Expected Land Disturbance
The entire 6.8 acre project area will be disturbed.

A24: Proposed Final Topography
Proposed final topography with contours and/or spot elevation tags representing final grades are shown on the Grading Plan sheets C4.1 and C4.2.

A25: Locations and Approximate Boundaries of Disturbed Areas
See the attached Erosion Control Plan sheet C1.1 for proposed improvements, project boundaries and disturbed area limits of construction.

A26: Location, Size and Dimensions of Proposed Storm Water System
The storm water system and sizes are shown on sheets C4.1 and C5.1.

A27: Storm Water Discharge Points
Storm water discharge points are noted on the attached Erosion Control Plan sheet C1.1. All runoff from the project area drains to the north generally via sheet flow, shallow concentrated flow and pipe flow.

A28: Location of Site Improvements
The proposed improvements are located on Site Plan sheets C3.1 and C3.2.

A29: Location of Stockpiles, Borrow and or Disposal Areas
All stockpiles are shown on the Erosion Control Plan sheet C1.1. The stockpile location is temporary and will be removed at completion of project. It is expected that the site will generate excess topsoil material to be hauled by the Contractor to the on-site disposal location shown on this sheet and on C2.1 Demolition Plan. The disposal site will be required to have silt fence installed and permanent vegetative cover established over the pile prior to Notice of Termination.

A30: Construction Support Activities
Construction support activity locations are noted on the Erosion Control Plan sheet C1.1. Existing paved surfaces shall be utilized as laydown and staging.

A31: Location of In Stream Activities
There are no in stream crossings or activities proposed for this project. There are no areas of wetland disturbance proposed.

B:: Construction Component

B1: Description of Potential Pollutant Sources
A construction project of this nature may have the following pollutants: sediment from storm water runoff, fuels and lubricants from equipment/vehicles, construction waste, concrete washout fluid, wind borne dust, fertilizers from seeding operations.

Materials storage must comply with sections B14 and B15 of this plan sheet. Contractor must comply with spills reporting requirements on this sheet. Contractor is required to monitor site daily for construction waste clean up and shall provide a construction site dumpster per the construction sequence. Concrete washout shall be provided and monitored as specified on sheets C1.1 and C1.3.

B2: Stable Construction Entrance
See the Erosion Control Plan sheet C1.1 for entrance location. Construction traffic will access the work areas of the project via the existing roadways. Contractor shall inspect roads to ensure no dirt or mud is tracked onto public roadways.

B3: Temporary and Permanent Surface Stabilization Methods
Temporary stabilization practices shall be installed if the construction project site, or any significant portion of the site, shall remain idle for a period longer than 15 days. Temporary practices include covering stockpiles, temporary seeding, straw mulching, erosion control blankets, etc. If erosion control blankets are used, blankets shall be wildlife-friendly, net-free, curlx variety as manufactured by American Excelsior Company or equal. Methods shall be appropriate for the season. See specifications for seeding at right.

As soon as new pavement areas are final graded, they shall be covered with stone subbase. All grass areas shall be permanently seeded within 7 days after completion of earthmoving activities and shall be appropriate for the season. See specifications for seeding at right.

B4: Sediment Control Measures for Concentrated Flow
There are no areas of concentrated flow.
Contractor is responsible for determining the need for additional measures beyond seeding based on construction site conditions.

B5: Sediment Control Measures for Sheet Flow
Silt fencing will be installed as shown on the plan prior to beginning any other work. All disturbed lawn areas that have been graded to finished elevations shall be permanently seeded with grass within 7 days after grading completion to prevent sediment runoff. Any areas of pavement subgrade that have been graded to final elevations shall be covered with appropriate stone subbase within 7 days to prevent sediment runoff and stabilize the surface.

B6: Runoff Control Measures
The Contractor is responsible for regularly monitoring the site for erosion. If areas are eroding and flow is becoming concentrated, Contractor shall repair areas of erosion, seed and install erosion control blankets or straw matting, or other measures as needed, to reduce further erosion.
Rock Check Dams or other commercially available check structures shall be installed in concentrated flow areas if they develop. Items shall be installed per the Indiana Storm Water Quality Manual or manufacturer's specifications.

B7: Storm Water Outlet Protection
The storm pipe discharge point shall be as detailed on sheet C5.1 to discharge flow as in existing conditions. The outlet area shall be rip rap protected as detailed.

B8: Grade Stabilization Structures
No grade stabilization structures are proposed for this project.

B9: Dewatering Applications and Management Methods
Dewatering of excavations is not expected to be needed for the project. If required, Contractor shall use commercially available dewatering sediment filter bags in accordance with manufacturer's specifications to treat pump released water.

B10: Management of Work in Waterbodies
No stream or wetland activities are required for this project.

B11: Monitoring and Maintenance Guidelines for Stormwater Quality Measures
See the Erosion Control Plan sheet C1.1 for notes about monitoring, maintenance and documentation requirements.

B12: Construction Sequence
See Erosion Control Plan sheet C1.1 for construction sequence.

B13: Erosion and Sediment Control for Individual Lots
There are no individual lots for this project.

B14: Material Handling and Spill Prevention Plan
It is expected there will be paints, sealants, adhesives, oils, fuels, fertilizers, concrete washout fluids, and general construction related materials on site. Contractor shall keep on site and strictly adhere to MSDS sheets of all materials, chemicals, and products brought to the site. Fluid materials shall be kept in original sealed containers until ready for use. Leftover fluid materials shall be re-sealed in original containers if possible. If not possible, fluid materials shall be transferred to manufacturer approved containers that can be re-sealed.
Contractor shall adhere to 327 IAC 2-6 for spills, reporting, containment and response. As soon as possible, but within 2 hours of discovery of a spill, Contractor must report the spill to the Department of Environmental Management, Office of Land Quality, Emergency Response Section: 317-233-7745 or 1-888-233-7745. If a written report is requested submit the report to: Indiana Department of Environmental Management, Office of Land Quality, Emergency Response Section (MC 66-30), 2525 N Shadeland Ave, Suite 100, Indianapolis, IN 46219-1787.

B15: Material Handling and Storage Procedures
Contractor shall handle and store all materials on site as listed above and per manufacturer's recommended procedures. Additionally, the site must be checked daily to ensure all construction waste is properly disposed of in the on site construction dumpster provided and maintained by Contractor. Dumpster shall be regularly monitored and emptied and shall not be allowed to overflow.
Construction materials shall be stored in a neat and tidy condition and shall not be allowed to blow or disperse on or off the site. Concrete washout shall also be monitored and maintained regularly as specified on these plans.

C:: Post Construction

C1: Description of Pollutants and Sources for Proposed Land Use
Potential pollutants associated with this land use include:
• Oil, grease, engine coolants, and brake dust from vehicles
• Rubber wearing off tires
• Trash and debris from littering
• Lawn care chemicals (i.e. weed killers)
• Lawn fertilizers

C2: Description of Proposed Post-Construction Storm Water Measures
Areas draining off site by sheet flow will be vegetated for stormwater filtration. The storm water runoff generated by new impervious surfaces will flow to the proposed underground storage pipes as much as possible. The storage area will filter the storm water by providing a condition in which the storm water will slow down and have time to settle out smaller particle suspended solids. Additionally the outlet structure will have a SNOUT BMP installed over the outlet pipe to catch floatable trash and remove sediment.

C3: Location, Dimensions, Specifications and Construction Details for Post-Construction Storm Water Quality Measures
See the Erosion Control Plan sheet C1.1 for location of the proposed SNOUT acting as the primary post-construction measure. Additionally, post-construction sheet flow treatment will occur through grassed yard areas for sheet flow leaving the site without entering the storm system. Permanent seeding shall be installed within 7 days of final grades being established. Contractor shall incrementally install seeding as portions of the site are completed and ready for seeding if construction timing provides for the completion of one area of the site before other areas are completed. Removal of temporary sediment control measures may be done after establishment of vegetative cover.

C4: Sequence Describing Storm Water Quality Measure Implementation
Site inspection and removal of trash and debris shall be done daily to keep the site clean and in good condition. Permanent seeding shall be installed within 7 days of final grades being established. Contractor shall incrementally install seeding as portions of the site are completed and ready for seeding if construction timing provides for the completion of one area of the site before other areas are completed. Removal of temporary sediment control measures may be done after establishment of vegetative cover.
The majority of storm water from the proposed site improvements will be routed through the on-site storm storage area prior to leaving the site. The storage along with the SNOUT structure will act as a filter of post-construction storm water by allowing sediment, sand and grit to settle out prior to leaving the site.
Some areas will sheet flow off site without entering the basin. However, these areas will be vegetated and consist of grassed and wooded areas. These areas will provide minimal vegetative filtering of storm water runoff.

C5: Maintenance Guidelines for Post-Construction Measures
All trash and debris shall be picked up and disposed of lawfully. Visual inspection of the inlets & pipes shall be done regularly to determine silt build up and maintenance requirements. The SNOUT structure shall be inspected monthly for the first year to determine the rate of accumulation of sediment and floatable debris. After 12 months, the maintenance and inspection schedule can be adjusted based on the actual accumulation rates.
At the completion of construction and full site stabilization, Contractor shall vacuum out the SNOUT structure sump and remove all floatable debris to provide a clean structure at delivery to Owner.

C6: Entity Responsible for Post-Construction Operation and Maintenance
All maintenance after construction completion shall be the responsibility of the site Owner. Contractor shall provide Owner with manufacturer's spec sheets and maintenance guidelines for SNOUT at project closeout.

Temporary Seeding Recommendations			
Seed Species ¹	Rate per Acre (lbs)	Planting Depth (in)	Optimum Dates ²
Wheat or Rye	150	1 to 1.5	Sept 15 - Oct 30
Spring Oats	100	1	March 1 - April 15
Annual Ryegrass	40	0.2500	March 1 - May 1 Aug 1 - Sept 1
German Millet	40	1 to 2	May 1 - June 1
Sudangrass	35	1 to 2	May 1 - July 30
Buckwheat	60	1 to 2	April 15 - June 1
Corn (broadcast)	300	1 to 2	May 11- Aug 10
Sorghum	35	1 to 2	May 1 - July 15

Temporary Dormant or Frost Seeding Recommendations	
Seed Species	Rate per Acre (lbs)
Wheat or Rye	150
Spring Oats	150
Annual Ryegrass	60

¹ Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (see Permanent Seeding).

² Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

Notes:
Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored.

A high potential for fertilizer, seed and mulch to wash exists on steep banks, cuts and in channels and areas of concentrated flow.

Permanent Seeding Recommendations Lawns and High-Maintenance Areas		
Seed Mixtures	Rate per Acre Pure Live Seed (lbs)	Optimum Soil pH
1. Bluegrass	140	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 90	5.6 to 7.0
3. Tall fescue (turf type) ² - bluegrass	170 30	5.6 to 7.5

Permanent Seeding Recommendations Channels and Areas of Concentrated Flow		
Seed Mixtures	Rate per Acre Pure Live Seed (lbs)	Optimum Soil pH
1. Perennial ryegrass - white clover ¹	150 2	5.5 to 7.0
2. Kentucky bluegrass - smooth bromegrass - switchgrass - timothy - perennial ryegrass - white clover ²	20 10 3 4 10 2	5.5 to 7.5
3. Tall fescue ¹ - white clover ²	150 2	5.5 to 7.5
4. Tall fescue ² - perennial ryegrass - Kentucky bluegrass	150 20 20	5.5 to 7.5

¹ For best results: a) legume seed should be inoculated; b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded (see Dormant Seeding and Frost Seeding); and c) if legumes are fall-seeded, do so in early fall.

² Tall fescue provides little cover, and may be toxic to some species of wildlife.

Notes:
An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:
(a) spring oats - 1/4 to 1/2 bushel per acre
(b) wheat - no more than 1/2 bushel per acre

A high potential for fertilizer, seed and mulch to wash exists on steep banks, cuts and in channels and areas of concentrated flow.

Permanent Dormant or Frost Seeding Recommendations Lawns and High-Maintenance Areas		
Seed Mixtures	Rate per Acre Pure Live Seed (lbs)	Optimum Soil pH
1. Bluegrass	210	5.5 to 7.0
2. Perennial ryegrass (turf type)	90 135	5.6 to 7.0
3. Tall fescue (turf type) ² - bluegrass	250 45	5.6 to 7.5

Permanent Dormant or Frost Seeding Recommendations Channels and Areas of Concentrated Flow		
Seed Mixtures	Rate per Acre Pure Live Seed (lbs)	Optimum Soil pH
1. Perennial ryegrass - white clover ¹	225 3	5.5 to 7.0
2. Kentucky bluegrass - smooth bromegrass - switchgrass - timothy - perennial ryegrass - white clover ²	30 15 5 6 15	5.5 to 7.5
3. Tall fescue ¹ - white clover ²	225 3	5.5 to 7.5
4. Tall fescue ² - perennial ryegrass - Kentucky bluegrass	225 30 30	5.5 to 7.5

NOTE:
See sheet C1.1 for Erosion Control Plan and C1.3 for Erosion Control Details.

BETHANY S. HOPF
REGISTERED
PE11100066
STATE OF INDIANA
PROFESSIONAL ENGINEER

BETHANY HOPF
11-02-23

DATE: 11-02-23
UDA PROJECT NO.: LA23102
ENR PROJECT NO.: ENG2303730653
SHEET NO.: C1.2

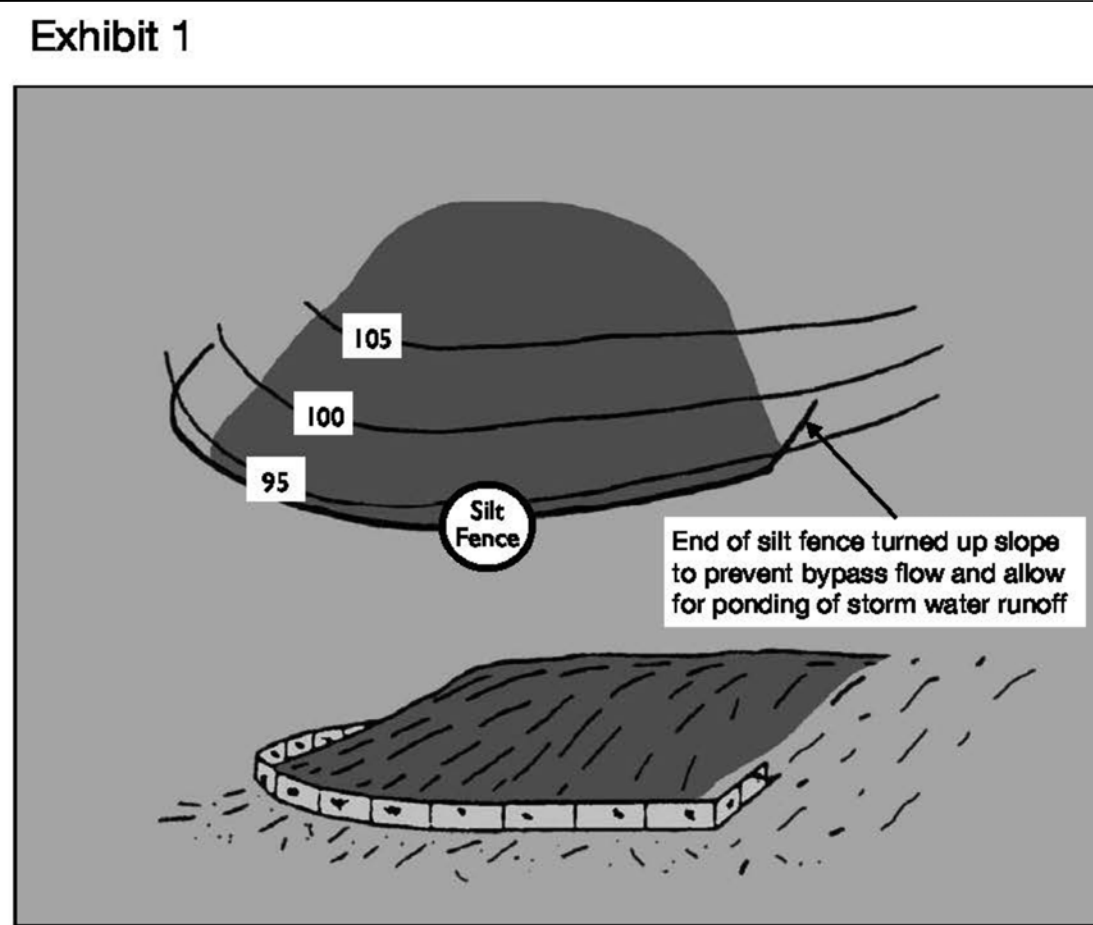
910 Main Street
Ferdinand, IN 47532
Phone: 812-367-2831
design@udassoc.com
www.udassoc.com

Universal DESIGN ASSOCIATES, INC.

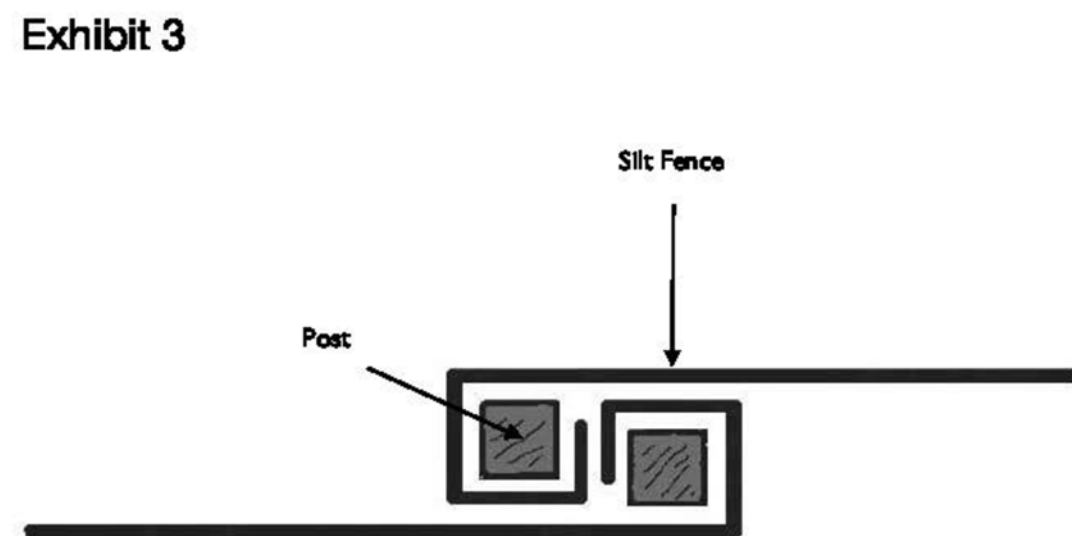
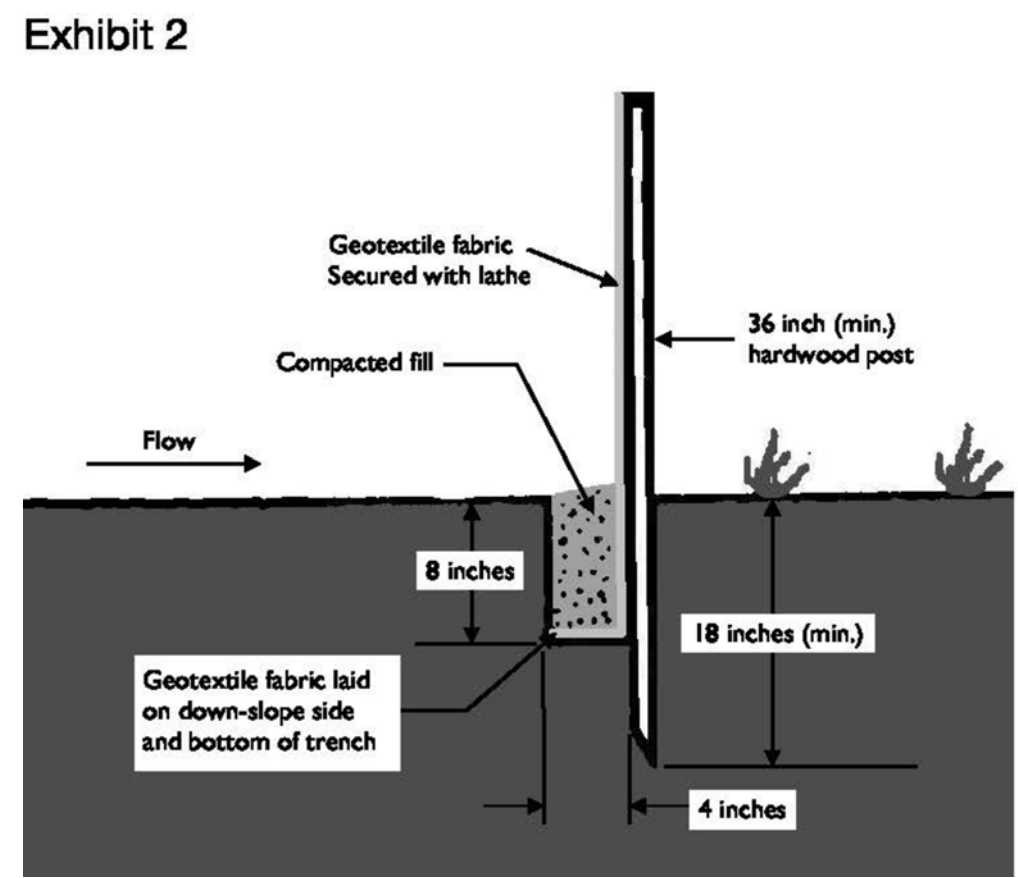
LINCOLN AMPHITHEATRE
PARKING LOT IMPROVEMENTS
LINCOLN CITY, INDIANA

DATE: 11-02-23
UDA PROJECT NO.: LA23102
ENR PROJECT NO.: ENG2303730653
SHEET NO.: C1.2

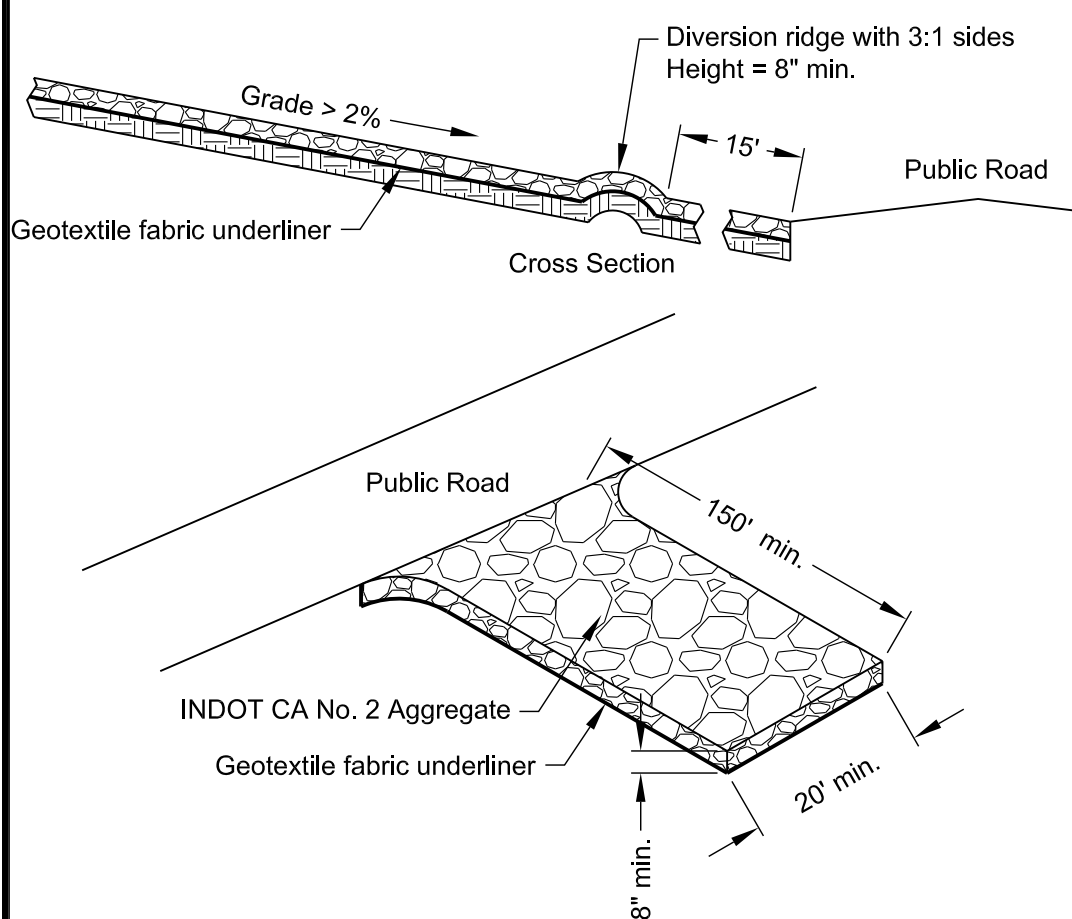
1" = 30'



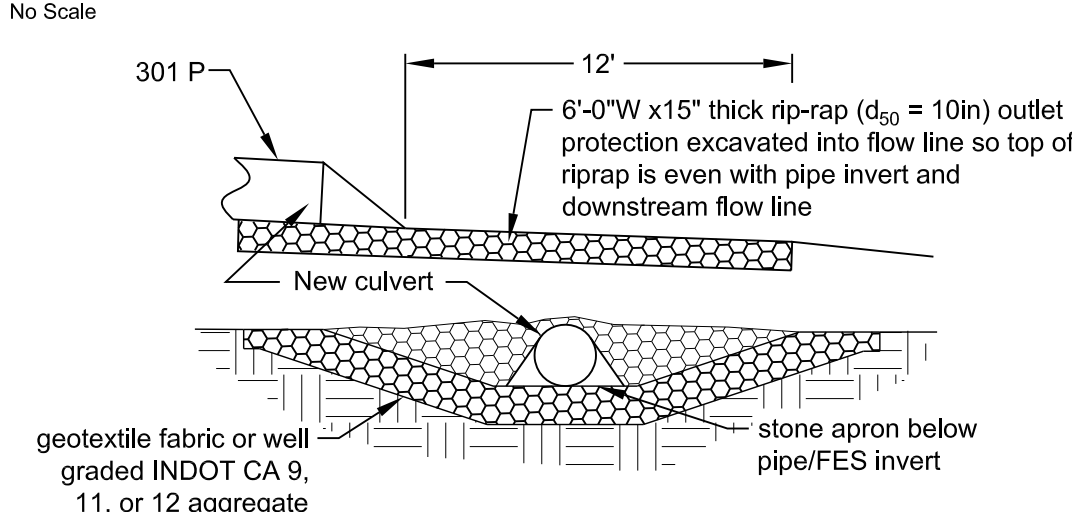
Source: Adapted from Commonwealth of Pennsylvania Erosion and Sediment Pollution Control Manual, 1990



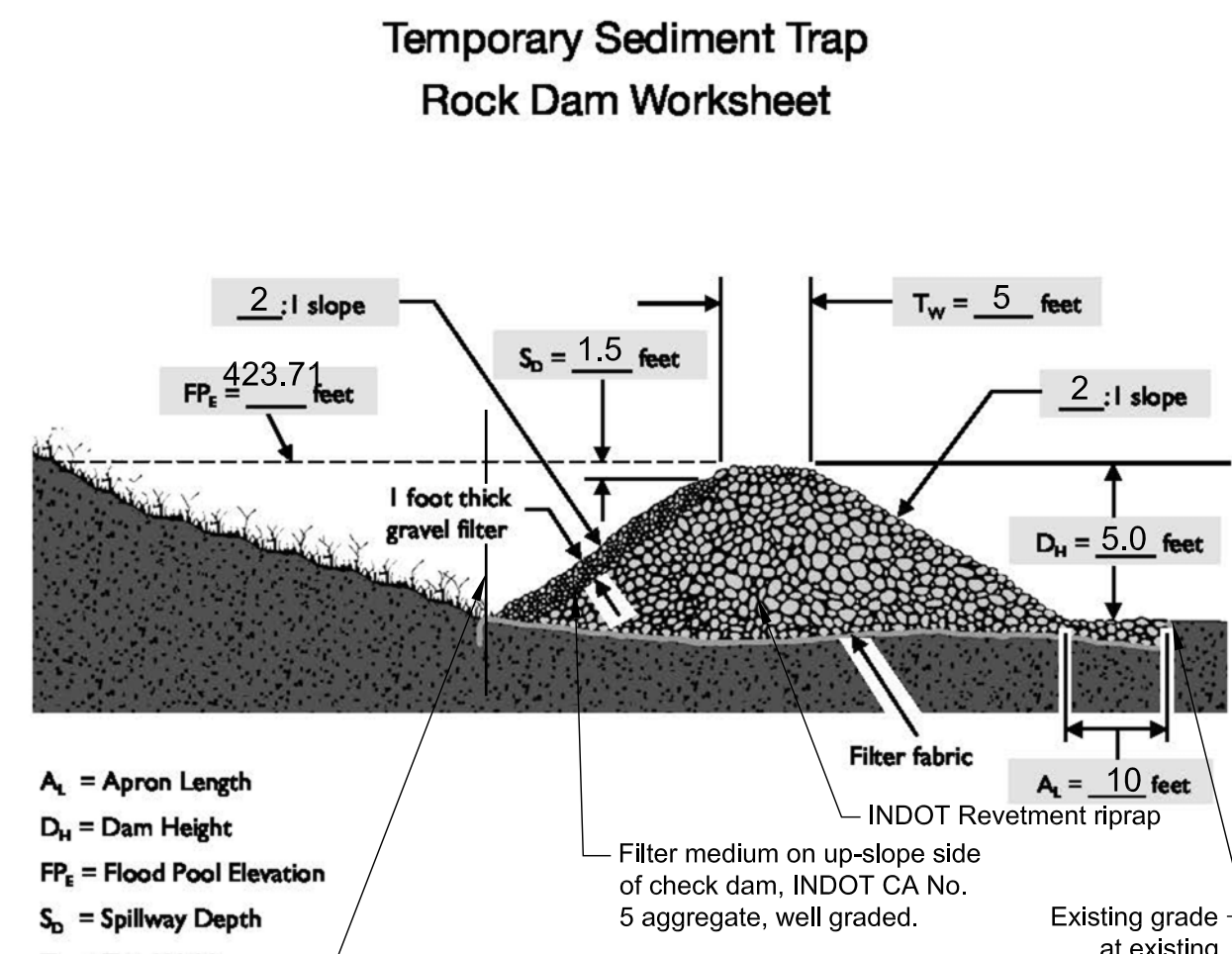
SILT FENCE DETAIL (FROM IN SWQM)



Temporary Construction Entrance/Egress Pad (Large Sites - Two Acres or Larger)



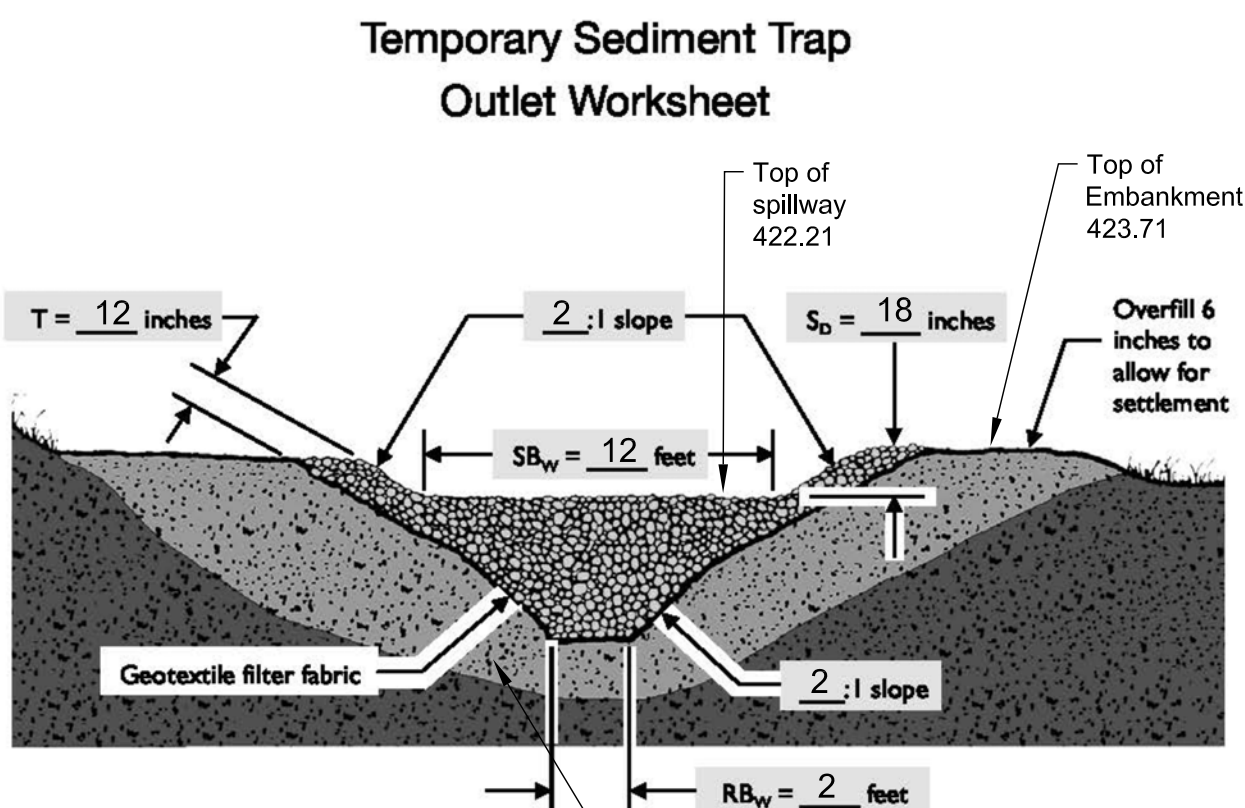
Culvert Outlet Protection Detail



A_a = Apron Length
 D_w = Dam Height
 FP_e = Flood Pool Elevation
 S_b = Spillway Depth
 T_w = Top Width

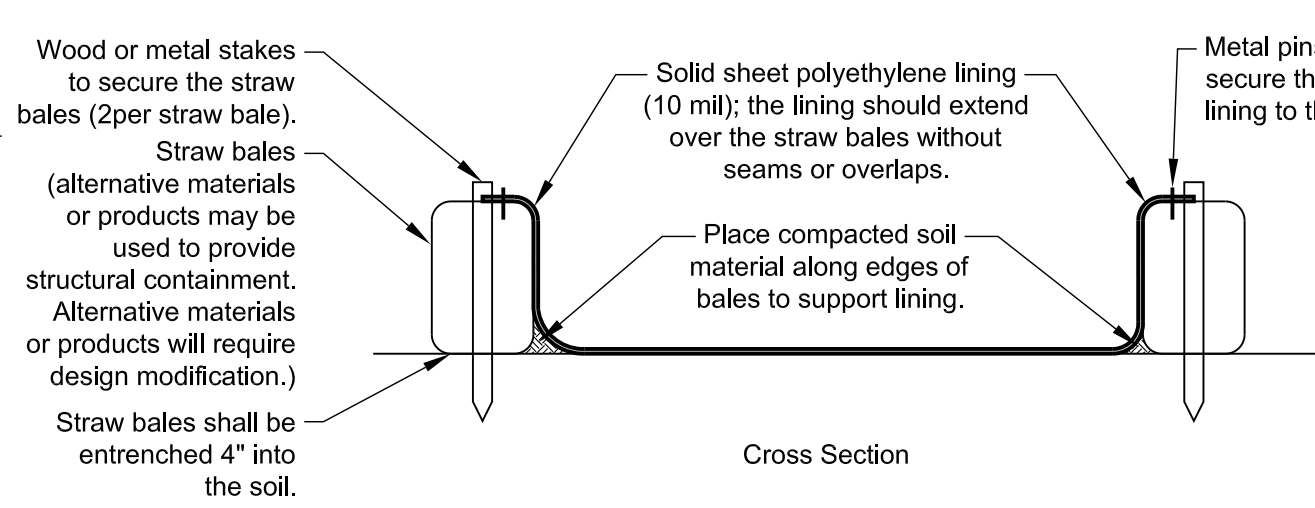
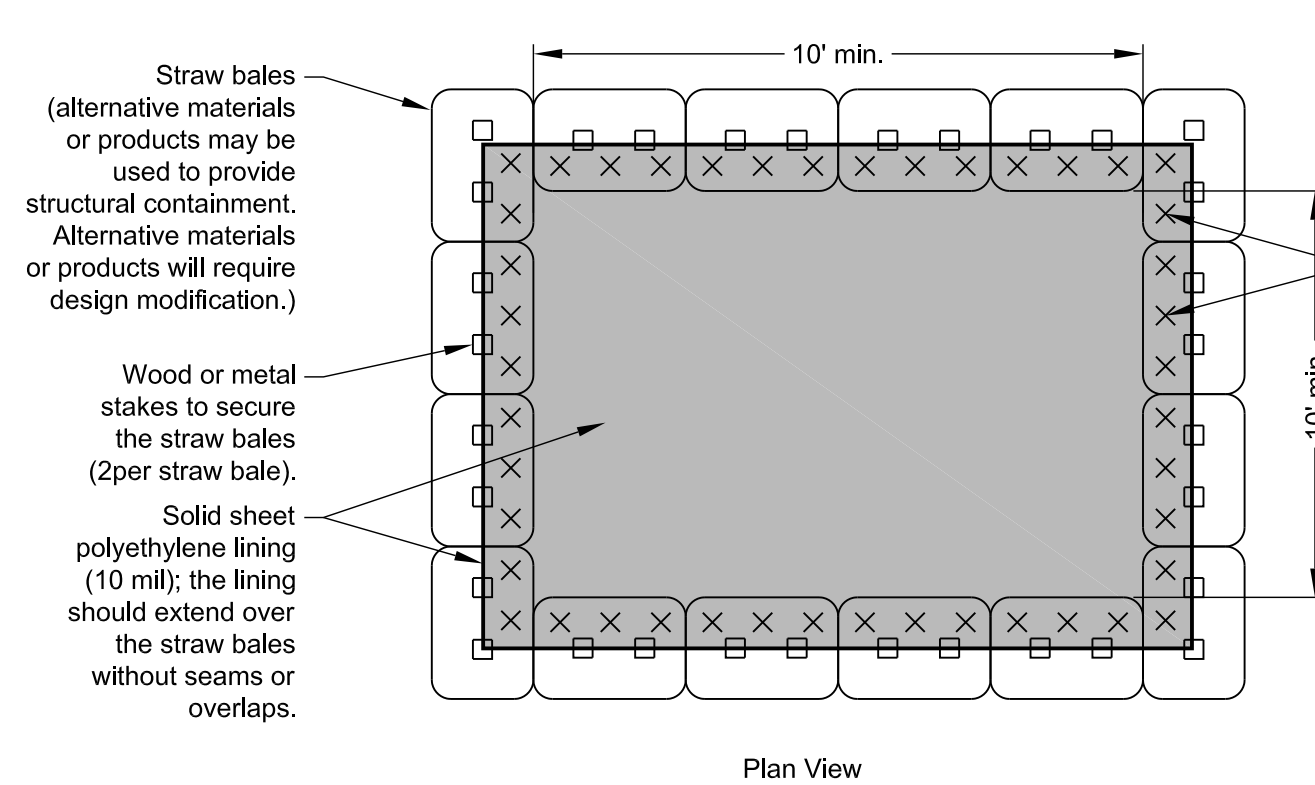
Place a cleanout reference stake at toe of rock dam marked with a line 1.5' above grade. Contractor shall monitor the sediment trap and clean out accumulated sediment when the sediment level reaches the 1.5' mark on the reference stake.

Area draining to sediment trap = 5 Ac
 Sediment volume required (1800 cf/ac) = 5 * 1800 = 9000 cf
 Sediment volume provided to spillway Elevation = 9070 cf



RB_w = Rock Dam Bottom Width
 S_b = Spillway Depth
 SB_w = Spillway Bottom Width
 T = Spillway Side-Slope Arment Thickness

TEMPORARY SEDIMENT TRAP (ON NORTH SIDE OF SITE) (FROM IN SWQM)



Concrete Washout Basin (above grade system)

Materials

Table 1. Mulch Specifications

Material ¹	Rate per Acre	Comments
Straw or hay	2 tons	Should be dry, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see Table 2).
Wood fiber or cellulose	1 ton	Apply with a hydraulic mulch machine and use with tackling agent.

¹ Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods.

Table 2. Mulch Anchoring Methods

Anchoring Method ¹	How to Apply
Mulch anchoring tool or farm disk (tull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleans.
Wood hydromulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.
Netting (synthetic or biodegradable material) * see note below	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up-slope strip overlapping four to six inches over the adjacent down-slope strip. Best suited to slope applications. In most instances, installation details are site specific, so manufacturer's recommendations should be followed.

¹ All forms of mulch must be anchored to prevent displacement by wind and/or water.

MULCHING REQUIREMENTS (FROM IN SWQM)

NOTE: If erosion control blankets are used, they shall be biodegradable, wildlife-friendly, net-free curlex variety as manufactured by American Excelsior Company or equal.

Inlet Filter Specifications:

Item #	Dimensions	Pieces per Carton	Pieces Per Pallet
IF1527X30C	1.5' x 27" x 30"	10 pads	120 pads
IF1527X21FB	1.5' x 27" x 21"	1 roll	12 rolls
IF1527X75FB	1.5' x 27" x 75"	N/A	3 rolls

Other pad and roll sizes are available upon request. Cartons sized to ship by UPS.

Inlet Filter Installation Instructions:

- Remove sediment, debris, ice and snow from the inlet grate surface and surrounding area.
- Verify fit by placing filter over inlet grate to ensure that Inlet Filter extends at least one inch beyond the front and both curb ends. The overlap slows water flow and starts filtering sediment and debris before water drops into the inlet.
- Position the mat. Place Inlet Filter on grate with the net side down, flush to the back edge and extending beyond the grate opening on the front and both sides. The zip ties attach Inlet Filter to the inlet grate cover WITHOUT LIFTING THE GRATE COVER.
- Insert zip ties. Lift Inlet Filter slightly to enable you to see the first grate bar from the edge of the grate cover. Push the zip tie down through the Inlet Filter and loop under the grate bar. Insert the pointed end of the zip tie about 2" away from the first zip tie penetration and push back up through the filter. Push the pointed end of the zip tie into the receiving end just enough to hold ends loosely. LEAVE ZIP TIES LOOSE UNTIL ALL TIES ARE LOOPED THROUGH THE MATS AROUND THE GRATES. Repeat Step 4 until all zip ties are installed loosely.
- Tighten zip ties. After attaching all of the zip ties, re-position Inlet Filter to completely cover and overlap the grate. Pull free end of zip-ties hand tight to anchor Inlet Filter to the grate. Cut off free end of zip ties to leave a 1" tail.

Inlet Filter Maintenance Instructions:

- Inlet Filter will collect a lot of sediment. Clean Inlet Filter while mounted on the grate, even if ponded water surrounds the inlet. This unique feature ensures all water entering the grate is filtered. Sweep sides and top of Inlet Filter to remove sediment and debris after each rain event.
- Remove sediment from the sides of the filter by sweeping away from Inlet Filter.
- Remove sediment from the top of the filter by sweeping off of Inlet Filter.
- Inlet Filter is prepared for the next rain event.



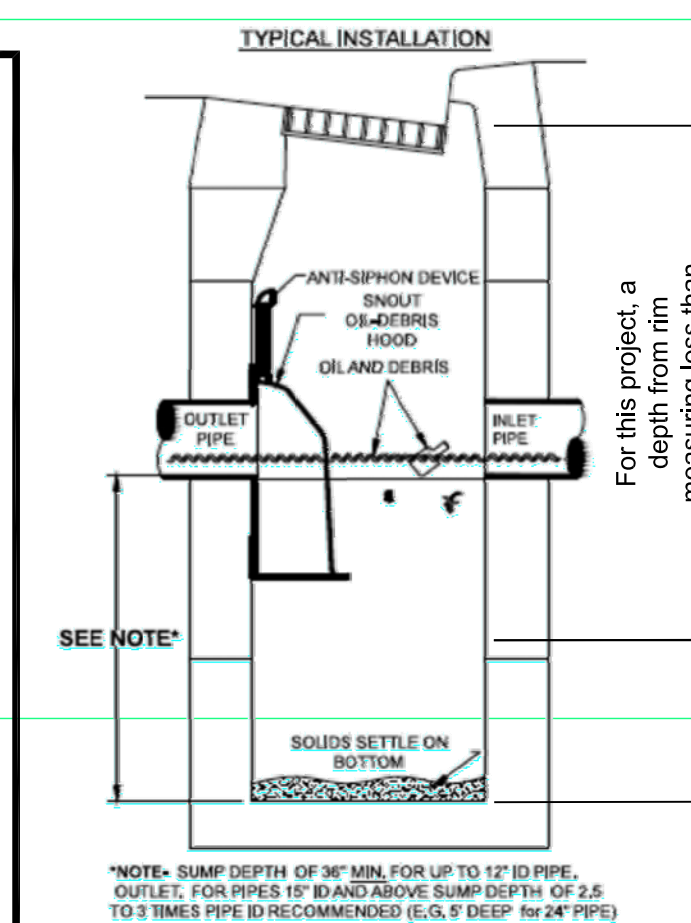
Maintenance Considerations for SNOOT® Stormwater Quality Systems

Background:
 The SNOOT system from Best Management Products, Inc. (BMP, Inc.) is based on a vented hood that can reduce floatable trash and debris, free oils, and other solids from stormwater discharges. In its most basic application, a SNOOT hood is installed over the outlet pipe of a catch basin or other stormwater quality structure with a deep sump (see Installation Drawing). The SNOOT forms a baffle that traps floatable debris and free oils on the surface, while permitting heavier solids and sediment to sink to the bottom of the sump. The clarified intermediate layer is forced out of the structure through the open bottom of the SNOOT by displacement from incoming flow. The resultant discharge contains considerably less unsightly trash and other gross pollutants, and can also offer reductions of free-oils and finer solids. To increase pollutant removal capabilities of the SNOOT system, various accessories are available. The most popular options include: the Bio-Skirt® for higher hydrocarbon capture and retention, the Stainless TrashScreen™ for Full Trash Capture and the Turbo Plate® for turbulence reduction and higher sediment capture.

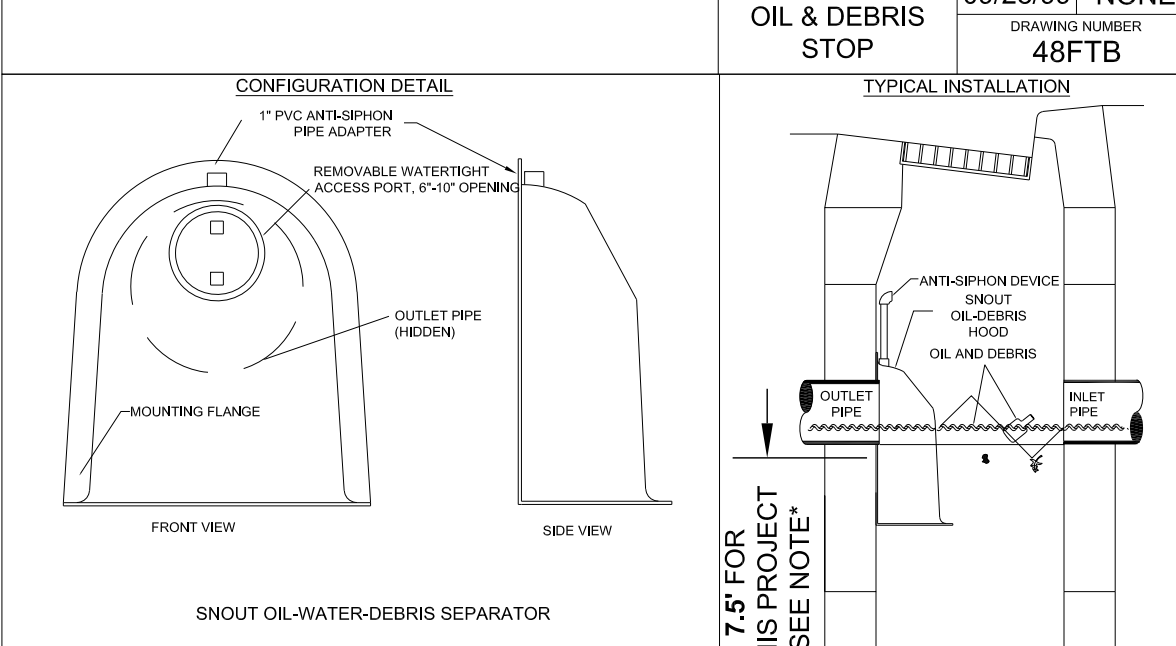
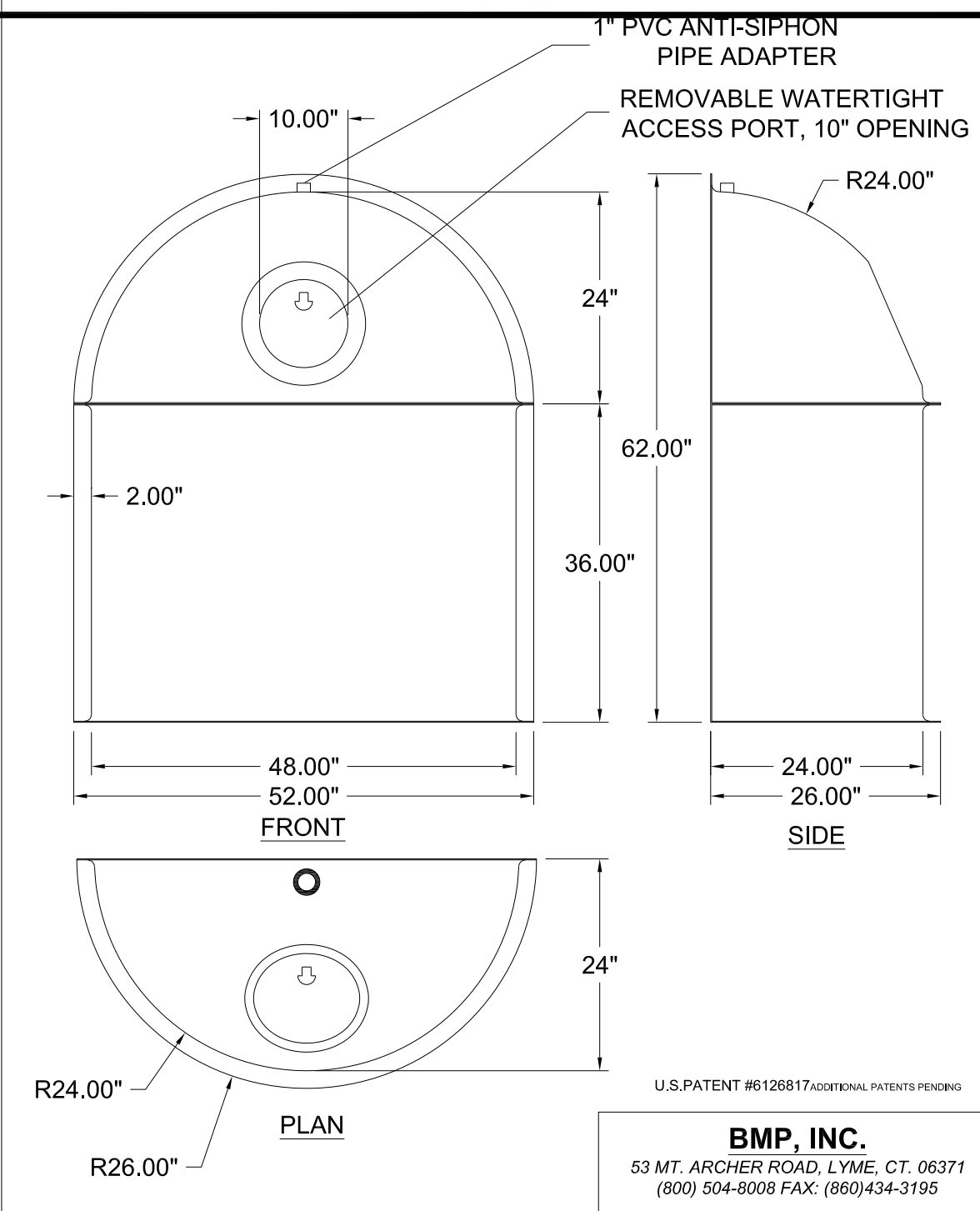
- #### Maintenance Recommendations:
- Monthly monitoring for the first year of a new installation after the site has been stabilized is a recommended practice.
 - Measurements should be taken after each rain event of .5 inches or more, or monthly, as determined by local weather conditions.
 - Checking sediment depth and noting the surface pollutants in the structure will be helpful in planning maintenance.
 - The pollutants collected in SNOOT equipped structures will consist of floatable debris and oils on the surface of the captured water, and grit and sediment on the bottom of the structure.
 - It is best to schedule maintenance based on the solids collected in the sump.
 - Optimally, the structure should be cleaned when the sump is half full (e.g. when 2 feet of material collects in a 4 foot sump, clean it out).
 - Structures should also be cleaned if a spill or other incident causes a larger than normal accumulation of pollutants in a structure.
 - Maintenance is best done with a vacuum truck.
 - If Bio-Skirts are being used in the structure to enhance hydrocarbon capture, they should be checked on a monthly basis for the first year, and serviced or replaced when more than 2/3 of the boom is submerged, indicating a nearly saturated state. Assuming a typical pollutant-loading environment exists, Bio-Skirts should be serviced* annually or replaced as necessary.
 - In the case of an oil spill, the structure should be checked and serviced and Bio-Skirts (if present) replaced or serviced immediately.
 - All collected wastes must be handled and disposed of according to local environmental requirements.
 - To maintain the SNOOT hoods, an annual inspection of the anti-siphon vent and access hatch are recommended. A simple flushing of the vent, or a gentle rodding with a flexible wire are all that's typically needed to maintain the anti-siphon properties. Opening and closing the access hatch once a year ensures a lifetime of trouble-free service.

*To extend the service life of a Bio-Skirt, the unit may be "wrung out" to remove oils and washed in an industrial washing machine with warm water. The Bio-Skirt may then be re-deployed if the material maintains its structural integrity. A maintained Bio-Skirt can last for several years. Each Bio-Skirt can hold about on gallon of oils.

SNOOT INSTALLATION:



SNOOT 48FTB Details

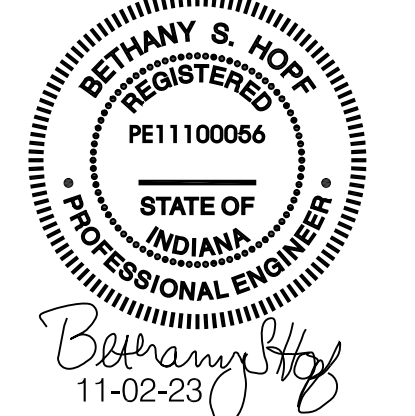


NOTES:
 1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY BEST MANAGEMENT PRODUCTS, INC. (BMP) 53 MT. ARCHER ROAD, LYME, CT 06371 (800) 504-8008 FAX: (860) 434-3195
 EAST HADDAM, CT 06423
 TOLL FREE: (800) 504-8008 OR (860) 434-0277, FAX: (87) 434-3197
 WEB SITE: www.bmpinc.com
 OR PRE-APPROVED EQUAL

HOOD SPECIFICATION FOR CATCH BASINS AND WATER QUALITY STRUCTURES

DESCRIPTION	DATE	SCALE
OIL-DEBRIS HOOD SPECIFICATION AND INSTALLATION (TYPICAL)	09/08/18	NONE
	APPROVED	DRAWING NUMBER
		SP-SN

NOTE: See sheet C1.1 for Erosion Control Plan and C1.2 for Erosion Control Narrative and Plan Index.



UNIVERSAL DESIGN ASSOCIATES, INC. 910 Main Street, Ferdinand, IN 47532
 Phone: 812/267-2831, Fax: 812/267-2831, Email: design@udassoc.com, www.udassoc.com

DATE: 11-02-23
 USA PROJECT NO.: LA23102
 CDR PROJECT NO.: ENG2303730653
 SHEET NO.: C1.3

EROSION CONTROL DETAILS
 1-BASE BID
 SCALE: AS NOTED

LINCOLN AMPHITHEATRE
 PARKING LOT IMPROVEMENTS
 LINCOLN CITY, INDIANA

DESIGNER: BSH
 CHECKED: BMS
 APPROVED: BSH

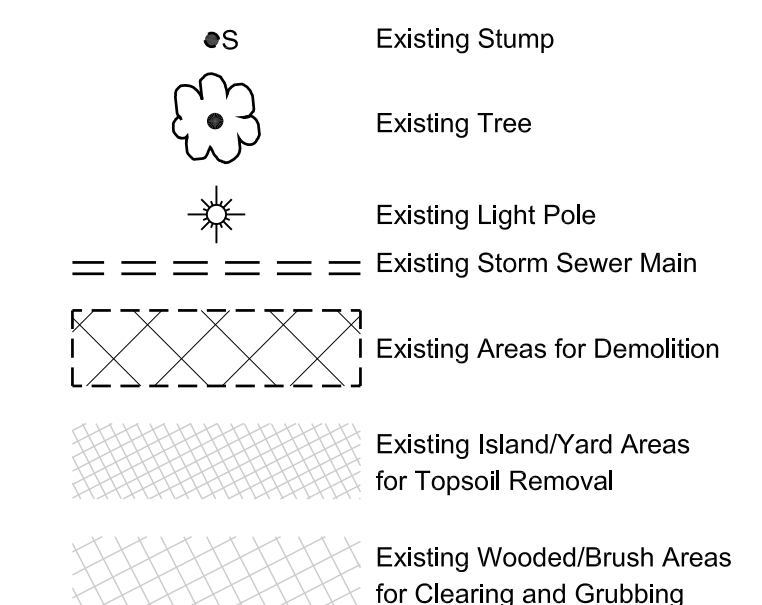
DEMOLITION NOTES

- 1. Contractor to refer to the specifications for schedule requirements and completion dates.
2. Contractor shall visit the site to become familiar with the existing conditions and review salvageable items.
3. The Demolition Contractor shall demolish the existing storm water drainage system including all concrete patching areas around existing area drains.
4. Contractor shall strip all topsoil from existing islands to be removed and shall stockpile the topsoil outside of work areas as noted on the Erosion Control Plan.

- 5. Contractor shall remove all remaining tree stumps in areas of new construction.
6. Contractor shall fill all voids left from demolition (i.e. stump removal, storm trenches not re-used, etc.).
7. Final grading shall be completed to ensure that all areas are graded to drain. The site shall NOT be left with voids or low areas that pond water except at area drains as designed.

- 8. All of the existing utilities shall be verified by Contractor in the field prior to beginning demolition activities.
9. All construction staking is required to be performed by the Contractor and shall be included in the contract.

LEGEND

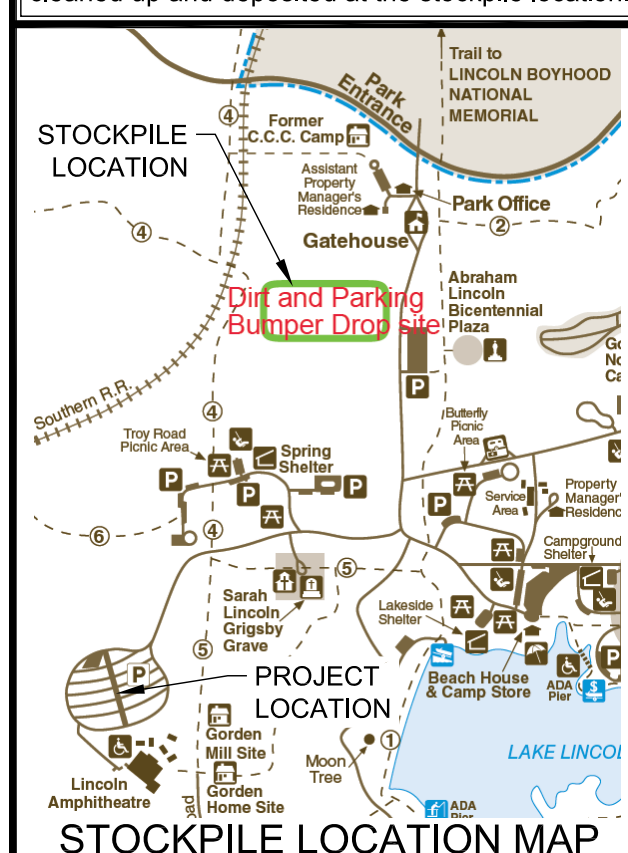


REQUIREMENTS

- A. Traffic Controls: Contractor to coordinate with Owner for Traffic Access Controls.
B. Project Temporary Sign: Unauthorized signs are not permitted.
C. Barricades, Warning Signs, and Lights: Contractor to coordinate with Owner for allowed/required signs and lighting.
D. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction.
E. Temporary Erosion and Sedimentation Control: See sheets C1.1, C1.2 and C1.3.
F. Stormwater Control: Comply with authorities having jurisdiction.
G. At Substantial Completions: Clean all roads, sidewalks and any other adjacent facilities soiled by the demolition operations.



NOTE: Topsoil stockpile location shall be wrapped in silt fence until vegetative stabilization is achieved. Contractor is responsible for monitoring and cleaning existing roadways used as the haul route.



TOTAL 420 CAR PARKING SPACES (18 OF THOSE ARE MARKED ADA)

NOTE: Utility lines shown on this drawing are for reference only. The lines were located using Owner supplied maps and above grade features.

Professional Engineer seal for Bethany S. Holf, PE11100066, State of Indiana, dated 11-02-23.

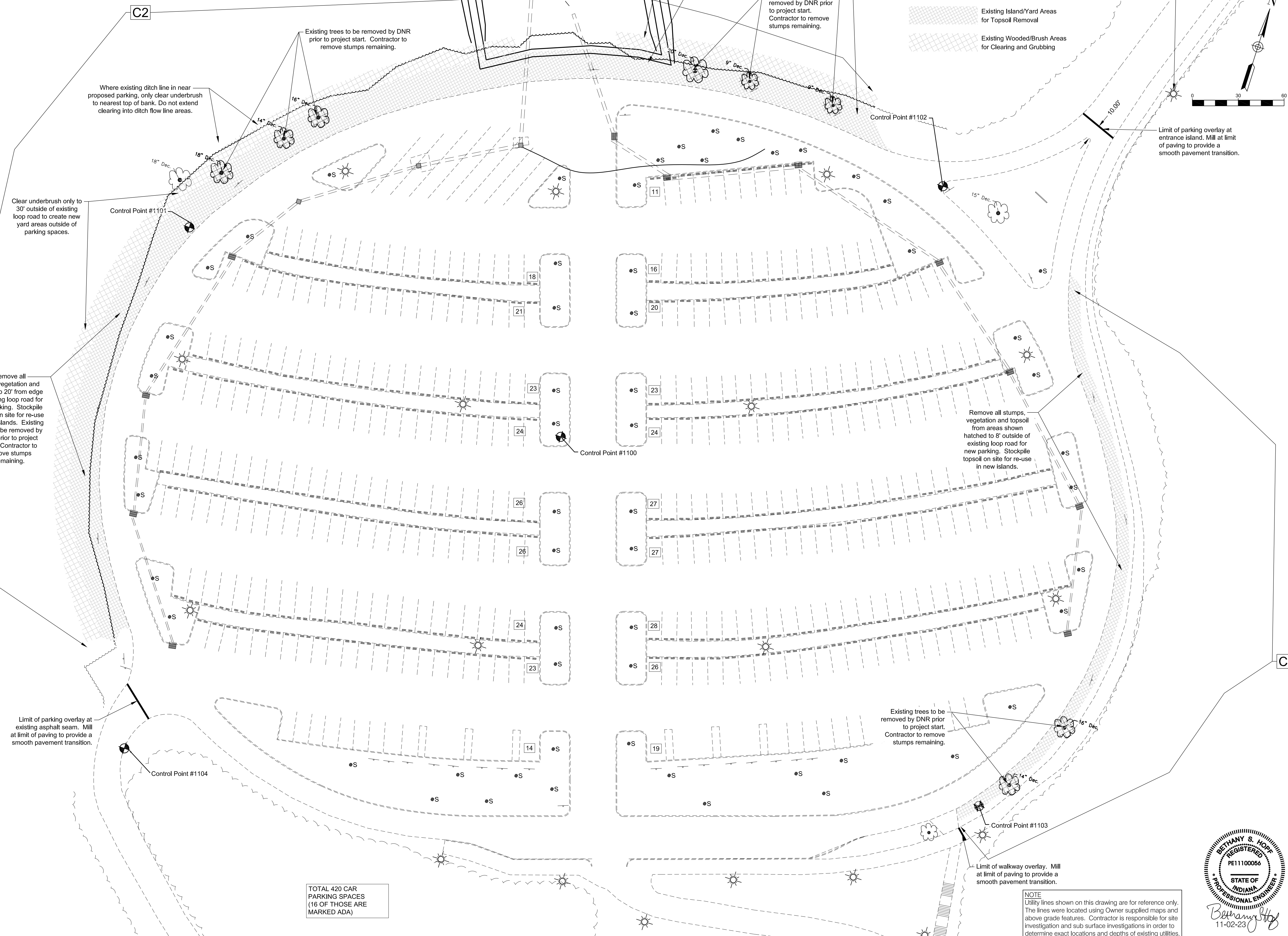
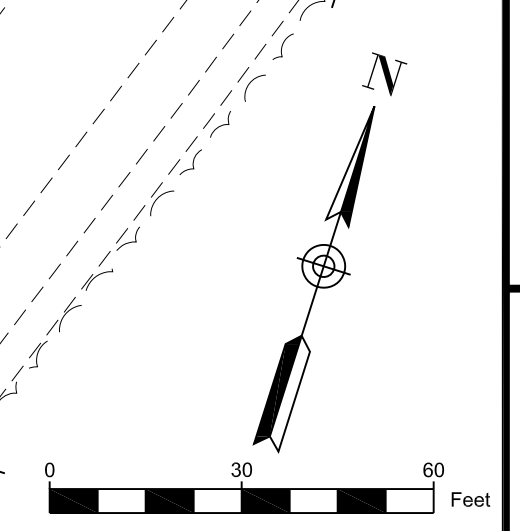
Project information block including drawing title 'DEMOLITION PLAN - BASE BID', date '11-02-23', project number 'LA23102', and company name 'Universal DESIGN ASSOCIATES, INC.' with contact information for Lincoln Amphitheatre parking lot improvements in Lincoln City, Indiana.

DEMOLITION ALTERNATE BID NOTES
 1. See sheet C2.1 for Demolition Notes.
 2. See sheet C3.2 for Alternate Bid Schedule and descriptions of Alternates.

LEGEND

- S Existing Stump
- ☼ Existing Tree
- ☼ Existing Light Pole
- ==== Existing Storm Sewer Main
- ▨ Existing Areas for Demolition
- ▨ Existing Island/Yard Areas for Topsoil Removal
- ▨ Existing Wooded/Brush Areas for Clearing and Grubbing

Remove existing light fixtures. See sheet C3.2 for Alternate Bid listing and full demolition requirements for Alternate Bid C4.



Where existing ditch line in near proposed parking, only clear underbrush to nearest top of bank. Do not extend clearing into ditch flow line areas.

Clear underbrush only to 30' outside of existing loop road to create new yard areas outside of parking spaces.

Remove all brush/vegetation and topsoil to 20' from edge of existing loop road for new parking. Stockpile topsoil on site for re-use in new islands. Existing trees to be removed by DNR prior to project start. Contractor to remove stumps remaining.

Clear underbrush only to 30' outside of existing loop road to create new yard areas outside of parking spaces.

Remove all brush/vegetation and topsoil to 20' from edge of existing loop road for new parking. Stockpile topsoil on site for re-use in new islands. Existing trees to be removed by DNR prior to project start. Contractor to remove stumps remaining.

Existing trees to be removed by DNR prior to project start. Contractor to remove stumps remaining.

Remove all stumps, vegetation and topsoil from areas shown hatched to 8' outside of existing loop road for new parking. Stockpile topsoil on site for re-use in new islands.

Existing trees to be removed by DNR prior to project start. Contractor to remove stumps remaining.

Limit of walkway overlay. Mill at limit of paving to provide a smooth pavement transition.

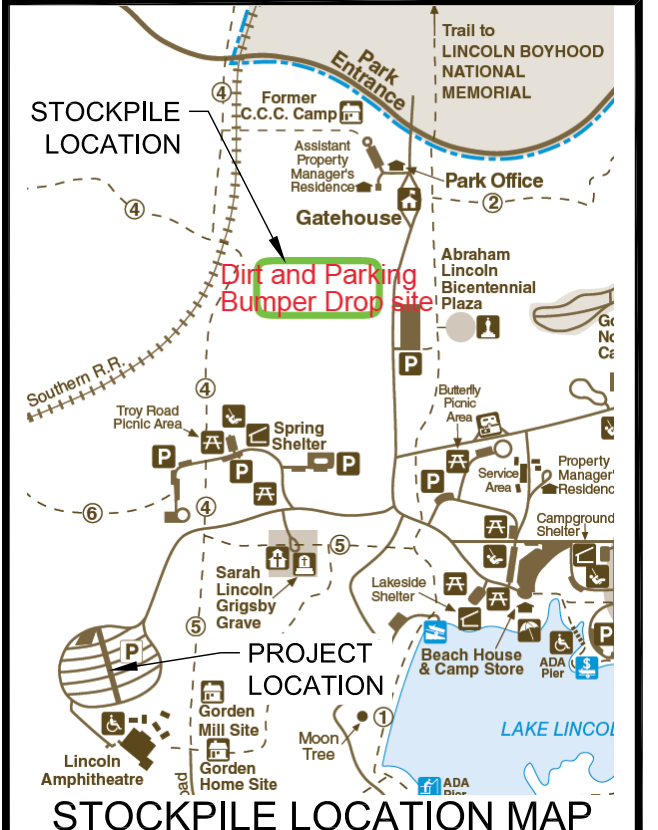
Limit of parking overlay at existing asphalt seam. Mill at limit of paving to provide a smooth pavement transition.

TOTAL 420 CAR PARKING SPACES (16 OF THOSE ARE MARKED ADA)

NOTE
 Utility lines shown on this drawing are for reference only. The lines were located using Owner supplied maps and above grade features. Contractor is responsible for site investigation and sub surface investigations in order to determine exact locations and depths of existing utilities.



Bethany S. Hof
 11-02-23



This drawing is the property of the design professional and shall remain the property of the design professional. It is not to be used for any other project without the written consent of the design professional. The design professional shall not be held responsible for any errors or omissions in this drawing. The design professional shall not be held responsible for any damages or injuries resulting from the use of this drawing. The design professional shall not be held responsible for any delays or cost overruns resulting from the use of this drawing. The design professional shall not be held responsible for any other matters not specifically mentioned in this drawing.

DATE	BY	REVISIONS

910 Main Street
 Ferdinand, IN 47532
 Phone: 812/267-2831
 design@udassoc.com
 www.udassoc.com

UNIVERSAL DESIGN ASSOCIATES, INC.

DRAWN: BSH
 CHECKED: BMS
 APPROVED: BSH

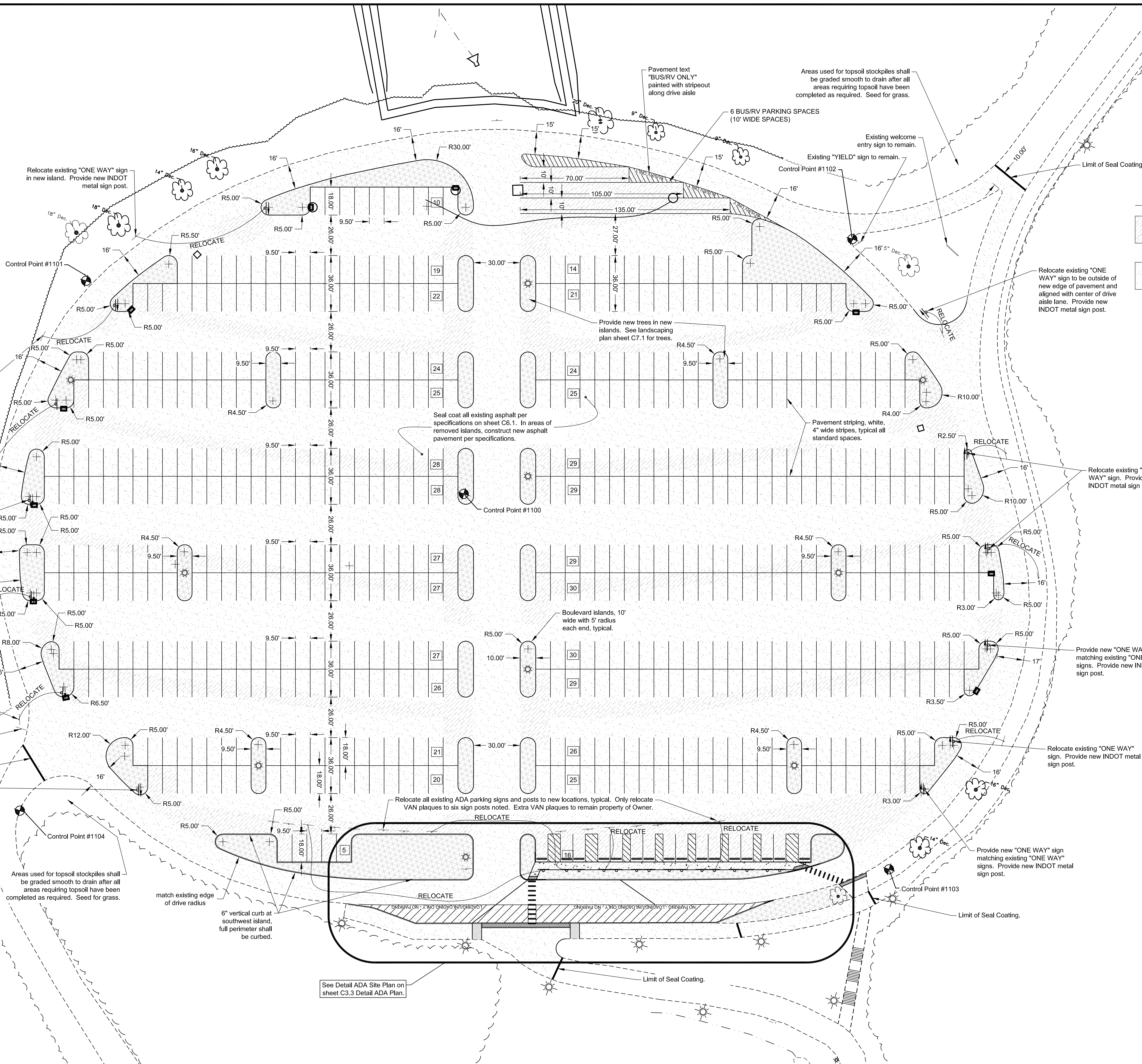
DEMOLITION PLAN-ALTERNATES

DATE: 11-02-23
 USA PROJECT NO.: LA23102
 DNR PROJECT NO.: ENG2303730653
 SHEET NO.: C2.2

SCALE: 1" = 30'

SITE PLAN NOTES

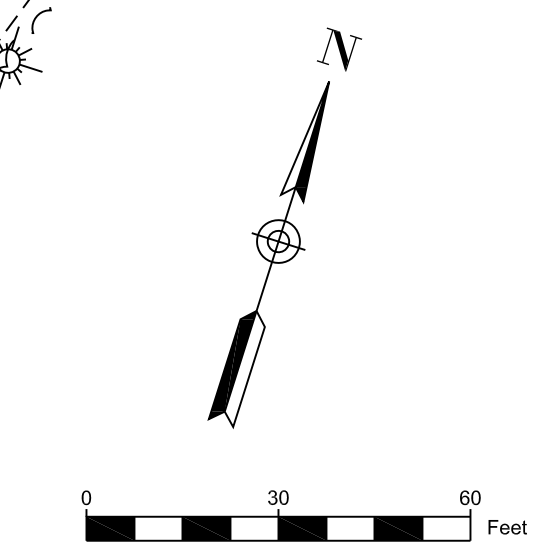
- See Sheet C1.1, C1.2 and C1.3 for Erosion Control.
 - See sheet C2.1, C2.2 for Site Demolition Plan.
 - See sheet C3.2 for Alternate Listings.
 - See sheet C3.3 for ADA details.
 - See sheet C4.1, C4.2 for Grading and Drainage Plan and Compaction Notes.
 - See sheet C5.1, C5.2 for Utility Plan.
 - See sheet C6.1 for Site Details.
 - See sheet C7.1 for Site Landscaping Plan.
- Utilities shown are based on above grade features and utility locate services. Contractor is responsible for determining exact locations and depths prior to construction. Contractor is responsible for repairing any damages during construction back to existing conditions.
 - Contractor shall be responsible for maintaining surfaces used for construction staging. If damages to existing pavement or finished subgrades occur, Contractor is responsible for repairs to design conditions.
 - Contractor shall be responsible for touch up and re-grading in disturbed construction areas as necessary to bring grades back to proper elevations.
 - Contractor shall place 6" minimum of topsoil at all grass island areas as shown on Site Plan.
 - At the end of construction, all disturbed lawn areas and new grass/landscape areas shall be loosened up and graded to a uniform slope to elevations shown, ready for seeding, strawing and landscaping by Contractor. All finish grading of final surfaces shall provide a smooth surface free of ridges or depressions greater than 2". Finish surfaces shall be paved, landscaped or seeded and strawed for a dense stand of lawn as noted on site plan. If erosion begins to occur after strawing is completed, Contractor shall provide erosion control blankets. Blankets shall be wildlife friendly, net free, Curlex (or equal).



PAVEMENT SPECIFICATIONS:

- Parking Lot Asphalt (full section required where existing islands and grass areas are removed) 1.5" HMA Surface Course with #11 stone on 3" HMA Base Course on 6" compacted #53 stone base
- Seal Coat all existing and new base bid asphalt surfaces for a continuous look. See seal coat specifications on sheet C6.1.

Standard Parking Pavement-Marking Paint Specification:
 Low VOC Acrylic traffic marking paint, colors complying with FS TT-P-1952.
 Colors: White and blue as indicated on the plan and in the details.



636 - TOTAL PASSENGER CAR PARKING BY RE-ARRANGING EXISTING PARKING AREA

61 - ANGLED PARKING ALONG OUTER EDGE OF EXISTING LOOP ROAD. (ALTERNATE BID C2)

17 - PARALLEL AND PARKING SPACES FROM ENTRY POINT IN MAIN LOT AREA. (ALTERNATE BID C3)

714 - OVERALL TOTAL PARKING SPACES

THIS INCREASED PARKING PROVIDES 1 PARKING SPACE FOR EVERY 2.1 EXISTING AMPHITHEATRE SEATS

ADA REQUIRED = 2% OF TOTAL PARKING
 714 * 0.02 = 14.3 ==> USE 15
 VAN ACCESSIBLE = 15/8 = 1.8 ==> USE 2
 ADA PROVIDED 16, 6 VAN ACCESSIBLE

MINOR ADDITIONAL TREE CLEARING IN EXISTING WOODED AREAS. LAYOUT GENERALLY MAKES USE OF EXISTING CLEARED AREAS AROUND LOOP.

MAINTAINS EXISTING 1 WAY TRAFFIC AROUND OUTER LOOP AS IN EXISTING CONDITIONS.

See Detail ADA Site Plan on sheet C3.3 Detail ADA Plan.



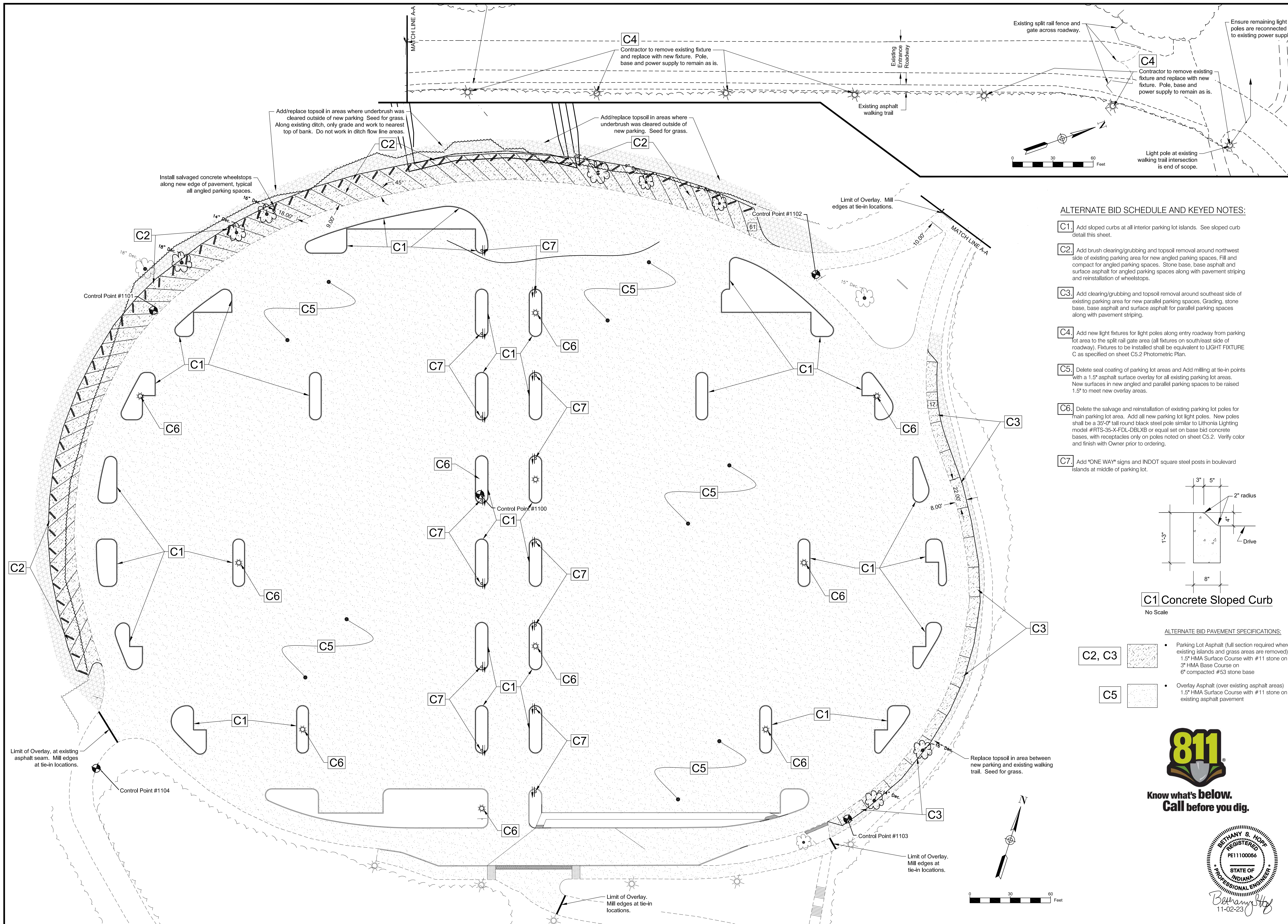
910 Main Street
 Ferdinand, IN 47532
 Phone: 812/267-2831
 design@uadassoc.com
 www.uadassoc.com

Universal DESIGN ASSOCIATES, INC.

LINCOLN AMPHITHEATRE
PARKING LOT IMPROVEMENTS
 LINCOLN CITY, INDIANA

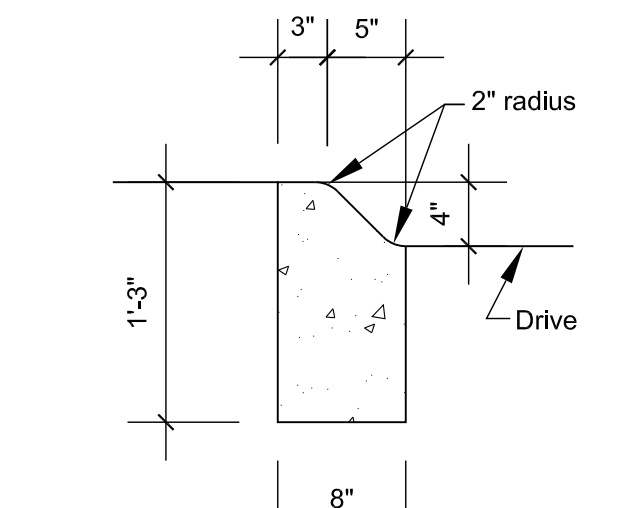
DATE: 11-02-23
 USA PROJECT NO.: LA23102
 CNR PROJECT NO.: ENG2303730653
 SHEET NO.: C3.1

SCALE: 1" = 30'



ALTERNATE BID SCHEDULE AND KEYED NOTES:

- C1.** Add sloped curbs at all interior parking lot islands. See sloped curb detail this sheet.
- C2.** Add brush clearing/grubbing and topsoil removal around northwest side of existing parking area for new angled parking spaces. Fill and compact for angled parking spaces. Stone base, base asphalt and surface asphalt for angled parking spaces along with pavement striping and reinstallation of wheelstops.
- C3.** Add clearing/grubbing and topsoil removal around southeast side of existing parking area for new parallel parking spaces. Grading, stone base, base asphalt and surface asphalt for parallel parking spaces along with pavement striping.
- C4.** Add new light fixtures for light poles along entry roadway from parking lot area to the split rail gate area (all fixtures on south/east side of roadway). Fixtures to be installed shall be equivalent to LIGHT FIXTURE C as specified on sheet C5.2 Photometric Plan.
- C5.** Delete seal coating of parking lot areas and Add milling at tie-in points with a 1.5" asphalt surface overlay for all existing parking lot areas. New surfaces in new angled and parallel parking spaces to be raised 1.5" to meet new overlay areas.
- C6.** Delete the salvage and reinstallation of existing parking lot poles for main parking lot area. Add all new parking lot light poles. New poles shall be a 35'-0" tall round black steel pole similar to Lithonia Lighting model #RTS-35-X-FDL-DBLB or equal set on base bid concrete bases, with receptacles only on poles noted on sheet C5.2. Verify color and finish with Owner prior to ordering.
- C7.** Add "ONE WAY" signs and INDOT square steel posts in boulevard islands at middle of parking lot.



C1 Concrete Sloped Curb
No Scale

ALTERNATE BID PAVEMENT SPECIFICATIONS:

- C2, C3**
 - Parking Lot Asphalt (full section required where existing islands and grass areas are removed)
 - 1.5" HMA Surface Course with #11 stone on
 - 3" HMA Base Course on
 - 6" compacted #53 stone base
- C5**
 - Overlay Asphalt (over existing asphalt areas)
 - 1.5" HMA Surface Course with #11 stone on existing asphalt pavement



This drawing is the property of Universal Design Associates, Inc. It is to be used only for the project and site specifically identified on the drawing. Any reproduction, modification, or use of this drawing for any other project without the written consent of Universal Design Associates, Inc. is strictly prohibited. The user of this drawing shall be responsible for any errors or omissions. The user shall indemnify and hold Universal Design Associates, Inc. harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, arising from or due to the use of this drawing. The user shall also be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The user shall also be responsible for obtaining all necessary insurance coverage. The user shall also be responsible for obtaining all necessary professional liability insurance coverage. The user shall also be responsible for obtaining all necessary professional liability insurance coverage. The user shall also be responsible for obtaining all necessary professional liability insurance coverage.

DATE	BY	REVISIONS

910 Main Street
Ferdinand, IN 47532
Phone: 812/267-2831
design@udassoc.com
www.udassoc.com

UNIVERSAL DESIGN ASSOCIATES, INC.

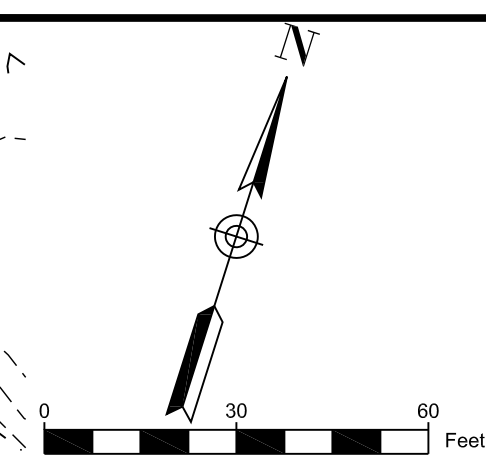
LINCOLN AMPHITHEATRE
PARKING LOT IMPROVEMENTS
LINCOLN CITY, INDIANA

DRAWN	BSH
CHECKED	BMS
APPROVED	BSH

SITE PLAN - ALTERNATES

DATE: 11-02-23
USA PROJECT NO.: LA23102
ENR PROJECT NO.: ENG2303730653
SHEET NO.: C3.2

SCALE: 1" = 30'



LEGEND

- 428.00 Proposed General Spot Grade
- 428.00 TC
427.50 GUT Proposed Top of Curb and Gutter Grades
- T.C. 426.38
F.C. 426.12 Existing Survey Data Point
Top of Curb and Face of Curb
- +425.92 Existing Survey Data Point
- 132.47 Existing General Surface Grade
- 5.0% Existing Surface Slope and Direction
- 2.0% Proposed Surface Slope and Direction
- 132 - - - - Existing Contour
- 132 Proposed Contour

GRADING PLAN NOTES

1. See Sheets C1.1, C1.2 and C1.3 for Erosion Control requirements before beginning grading.
2. See Sheets C3.1 for Site Plan Layout and C3.2 for Alternates listing.
3. See sheet C3.3 for ADA Grading.
4. All elevations shown are to finished surfaces.
5. Generally, pavement fill area surface elevations will tie-in to existing pavement edge elevations with straight grade slopes from high side to low side unless specifically noted otherwise.
6. All utilities are represented based on above grade features and 811 utility locate requests. Contractor shall verify all utility locations prior to beginning excavation activities.
7. All trash and debris shall be removed from site. No open burning will be permitted. Also precautions shall be taken to minimize dust from the construction area and the tracking of dirt onto paved areas is prohibited.
8. Contractor shall remove existing topsoil from existing parking island areas and stockpile on site for use in new grass and landscape areas.
9. After topsoil is removed, contractor shall proof-roll the existing island areas with a moderately loaded dump truck. If yielding occurs, undercut and backfill with suitable soil to a minimum 95% compaction as determined by (ASTM-D-1557).
10. Engineered earth fill shall be compacted to 95% of the Modified Proctor Maximum Dry Density (ASTM-D-1557).
11. Contractor shall place 6" minimum of topsoil at all grass areas as shown on Site Plan.
12. At the end of construction, all disturbed lawn areas and new grass/landscape areas shall be loosened up and graded to a uniform slope to elevations shown, ready for seeding and strawing by contractor.

CONTROL POINT TABLE			
CONTROL POINT #	NORTHING	EASTING	ELEVATION
1101	1039763.6070	2975006.8880	426.4600
1102	1039938.0680	2975468.5440	426.0100
1103	1039558.8570	2975613.4460	432.7600
1104	1039426.0080	2975069.2300	431.0100

See Detail ADA Grading Plan on sheet C3.3 Detail ADA Plan.

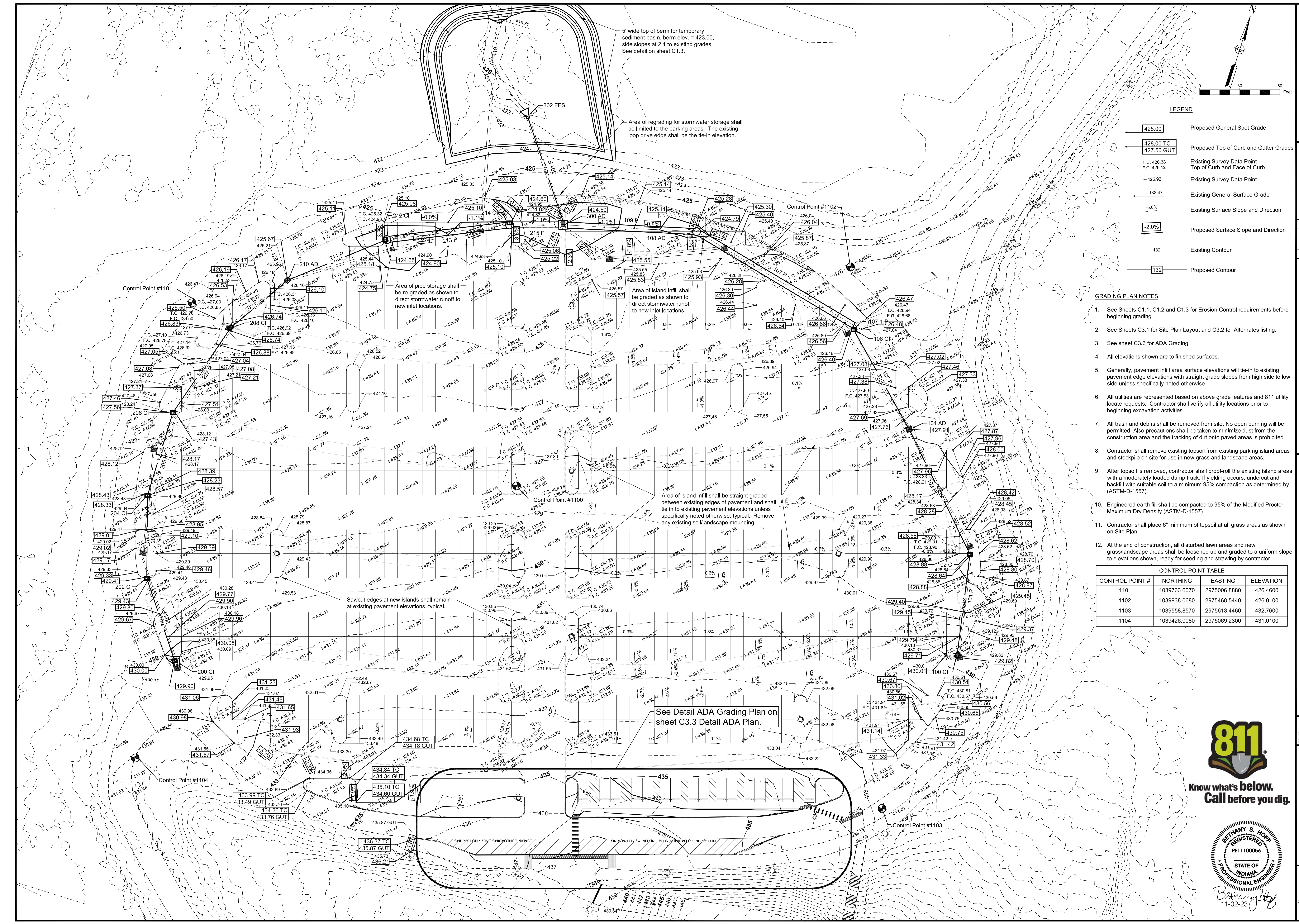
5' wide top of berm for temporary sediment basin, berm elev. = 423.00, side slopes at 2:1 to existing grades. See detail on sheet C1.3.

Area of regrading for stormwater storage shall be limited to the parking areas. The existing loop drive edge shall be the tie-in elevation.

Area of pipe storage shall be re-graded as shown to direct stormwater runoff to new inlet locations.

Area of island infill shall be straight graded between existing edges of pavement and shall tie in to existing pavement elevations unless specifically noted otherwise, typical. Remove any existing soil/landscape mounding.

Sawcut edges at new islands shall remain at existing pavement elevations, typical.



This drawing is the property of Universal Design Associates, Inc. It is to be used only for the project and location specified on the title block. No part of this drawing may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Universal Design Associates, Inc. Any violation of these terms shall constitute a breach of contract and the user shall be liable for all damages, including reasonable attorneys' fees. The user shall indemnify and hold Universal Design Associates, Inc. harmless from all claims, damages, and expenses, including reasonable attorneys' fees, arising from or due to the use of this drawing. The user shall release, defend, and hold Universal Design Associates, Inc. harmless from all claims, damages, and expenses, including reasonable attorneys' fees, arising from or due to the use of this drawing. The user shall release, defend, and hold Universal Design Associates, Inc. harmless from all claims, damages, and expenses, including reasonable attorneys' fees, arising from or due to the use of this drawing.

DATE: _____ BY: REMAINS

910 Main Street
Perkinsville, IN 47331
Phone: 812/697-7981
Fax: 812/697-7982
www.udassoc.com

UNIVERSAL DESIGN ASSOCIATES, INC.

LINCOLN AMPHITHEATRE
PARKING LOT IMPROVEMENTS
LINCOLN CITY, INDIANA

DRAWN: BSH
CHECKED: BMS
APPROVED: BSH

GRADING PLAN - BASE BID

SCALE: 1" = 30'

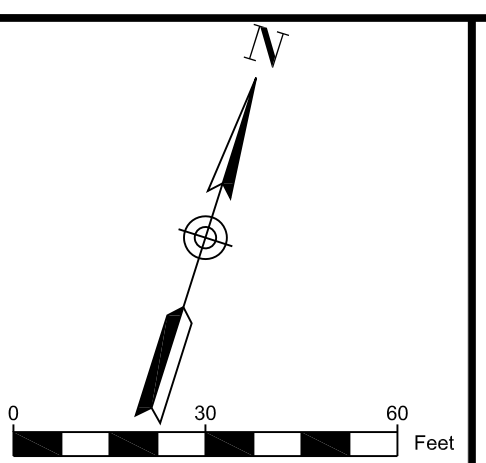
DATE: 11-02-23
USA PROJECT NO.: LA23102
DNR PROJECT NO.: ENG2303730653
SHEET NO.: C-4.1

BETHANY S. HOFF
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE11100066

BETHANY HOFF

811
Know what's below.
Call before you dig.

Alternate Bid C2 - Grade new parking generally sloped at 5% away from existing edge of pavement. Provide a 5' wide mowable grass strip along new edge of pavement sloped at 6% away from pavement. Tie-in to existing grades at 3:1 slopes. Area to be unmowed and can revert back to wooded areas over time. Ensure all areas are graded to drain. **NOTE:** Grades shown are without Alternate Bid C5 - Overlay. If alternate C5 and C2 are both accepted, grades shown here shall be raised 1.5" to meet new overlay surface.



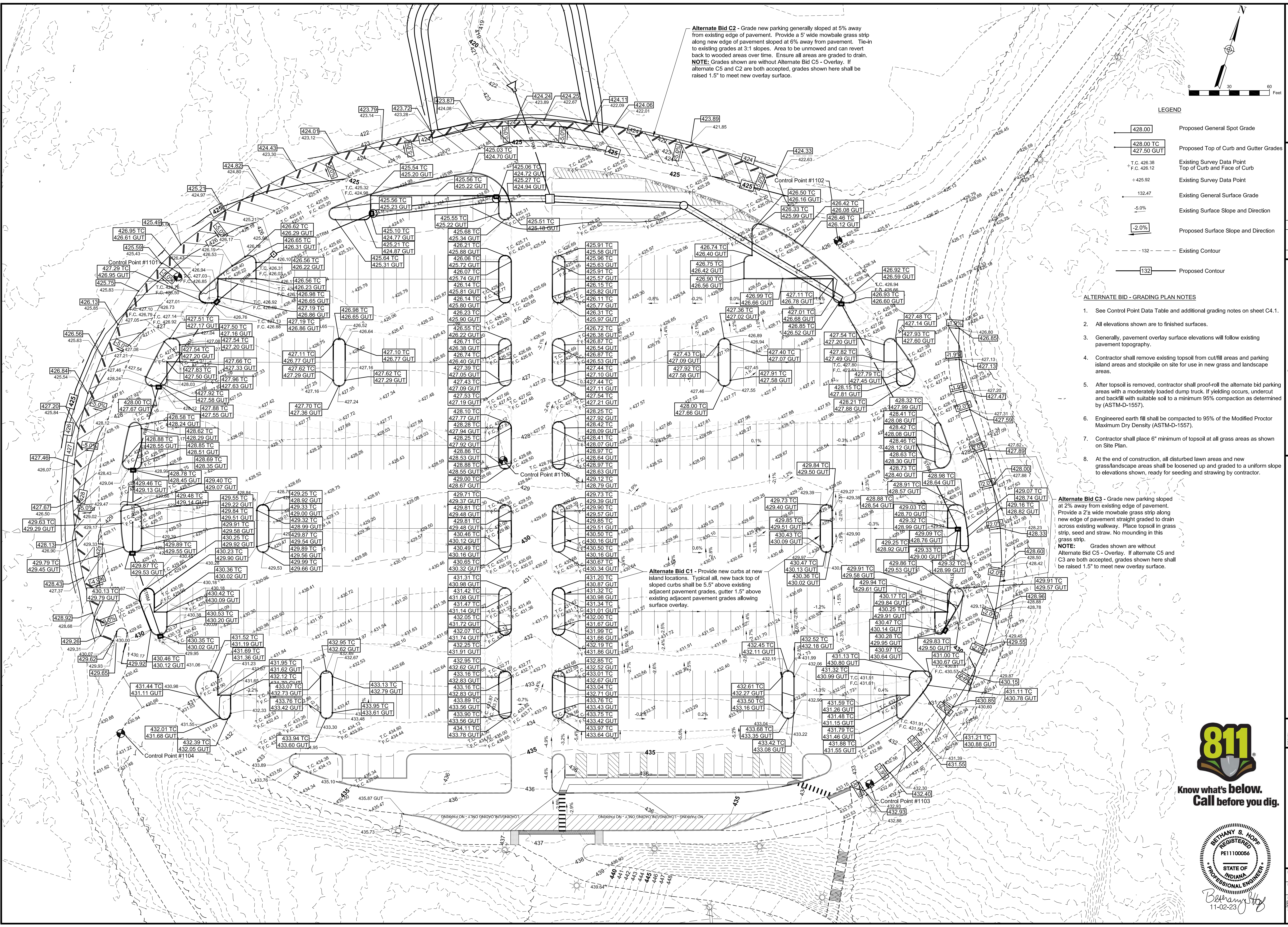
LEGEND

[428.00]	Proposed General Spot Grade
[428.00 TC 427.50 GUT]	Proposed Top of Curb and Gutter Grades
T.C. 426.38 F.C. 426.12	Existing Survey Data Point Top of Curb and Face of Curb
+425.92	Existing Survey Data Point
132.47	Existing General Surface Grade
-5.0%	Existing Surface Slope and Direction
-2.0%	Proposed Surface Slope and Direction
-132	Existing Contour
[132]	Proposed Contour

- ALTERNATE BID - GRADING PLAN NOTES**
- See Control Point Data Table and additional grading notes on sheet C4.1.
 - All elevations shown are to finished surfaces.
 - Generally, pavement overlay surface elevations will follow existing pavement topography.
 - Contractor shall remove existing topsoil from cut/fill areas and parking island areas and stockpile on site for use in new grass and landscape areas.
 - After topsoil is removed, contractor shall proof-roll the alternate bid parking areas with a moderately loaded dump truck. If yielding occurs, undercut and backfill with suitable soil to a minimum 95% compaction as determined by (ASTM-D-1557).
 - Engineered earth fill shall be compacted to 95% of the Modified Proctor Maximum Dry Density (ASTM-D-1557).
 - Contractor shall place 6" minimum of topsoil at all grass areas as shown on Site Plan.
 - At the end of construction, all disturbed lawn areas and new grass/landscape areas shall be loosened up and graded to a uniform slope to elevations shown, ready for seeding and strawing by contractor.

Alternate Bid C3 - Grade new parking sloped at 2% away from existing edge of pavement. Provide a 2' wide mowable grass strip along new edge of pavement straight graded to drain across existing walkway. Place topsoil in grass strip, seed and straw. No mounding in this grass strip. **NOTE:** Grades shown are without Alternate Bid C5 - Overlay. If alternate C5 and C3 are both accepted, grades shown here shall be raised 1.5" to meet new overlay surface.

Alternate Bid C1 - Provide new curbs at new island locations. Typical all, new back top of sloped curbs shall be 5.5' above existing adjacent pavement grades, gutter 1.5' above existing adjacent pavement grades allowing surface overlay.



811
Know what's below.
Call before you dig.

BETHANY S. HOFF REGISTERED PROFESSIONAL ENGINEER
PE11100066
STATE OF INDIANA
11-02-23

UNIVERSAL DESIGN ASSOCIATES, INC.
910 Main Street
Ferdinand, IN 47532
Phone: 812/967-7083
Fax: 812/967-7083
www.udassoc.com

LINCOLN AMPHITHEATRE
PARKING LOT IMPROVEMENTS
LINCOLN CITY, INDIANA

DATE: 11-02-23
USA PROJECT NO.: LA23102
DNR PROJECT NO.: ENG2303730653
SHEET NO.: C4.2

SCALE: 1" = 30'

STORMWATER STORAGE DATA

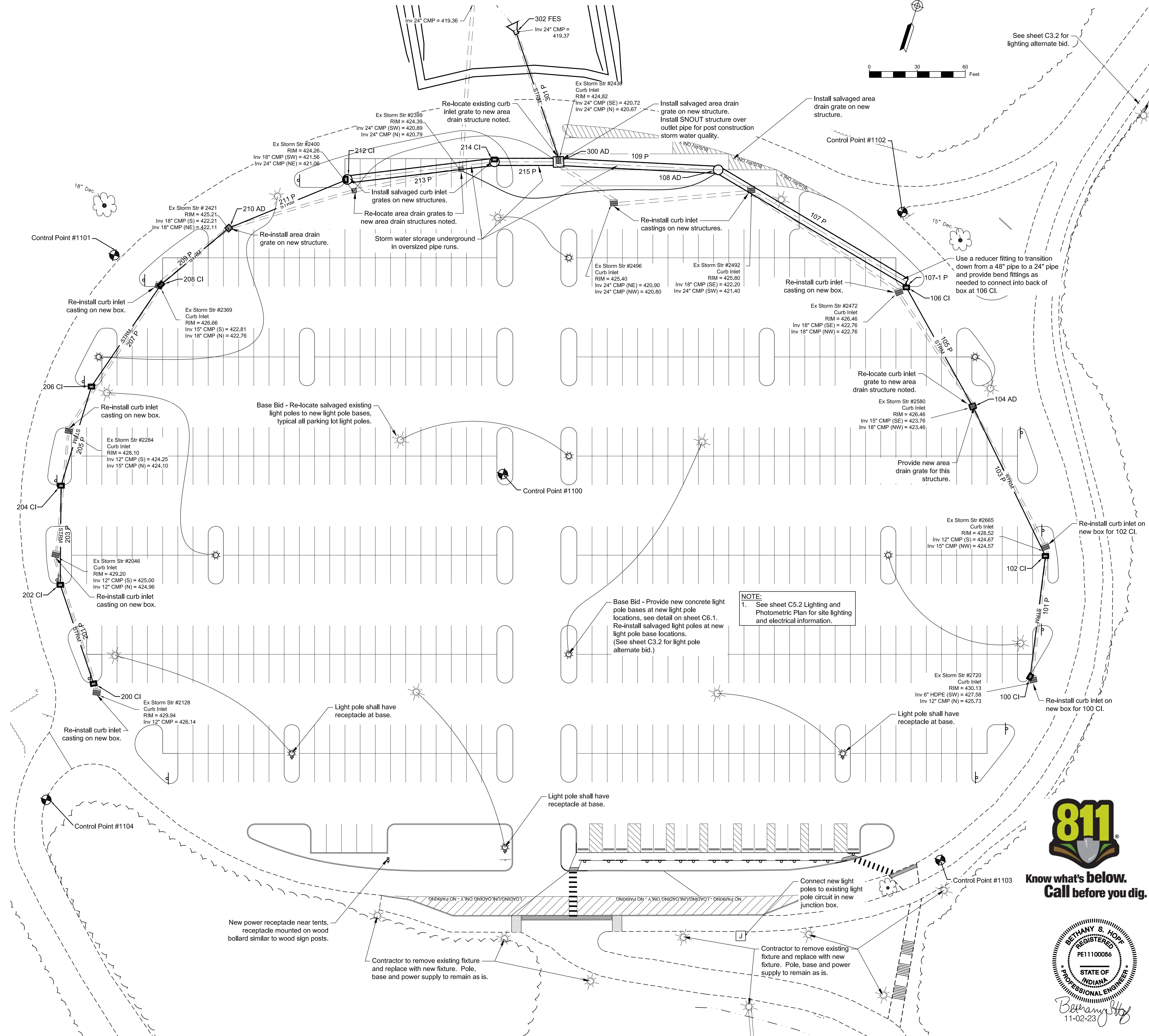
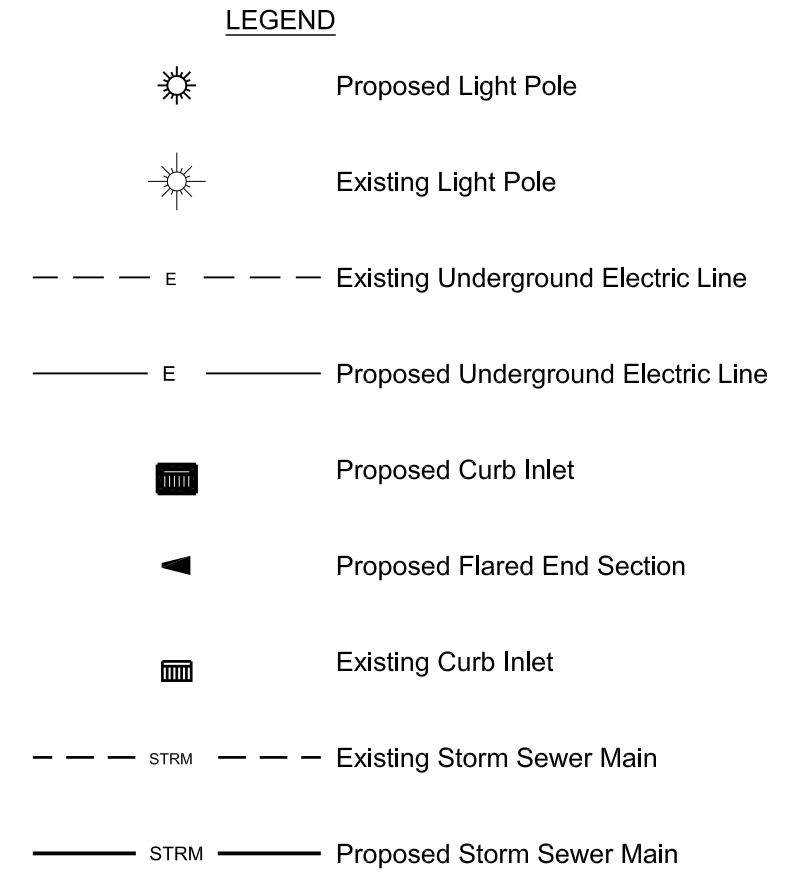
Pre-developed Total Runoff:	Q2 25.8 cfs	Q10 34.1 cfs	Q100 51.3 cfs
Developed Runoff (undetained):	5.4 cfs	7.2 cfs	10.7 cfs
Developed Runoff (basin outlet restricted):	20.1 cfs	26.6 cfs	40.3 cfs
Storage Volume Required:	3281 CF	4220 CF	4850 CF
Storage Volume Provided in below grade oversized pipes:			4645 CF (48" pipes)
Storage Volume Provided at surface (max. depth 6")			900 CF
TOTAL storm storage volume:			5545 CF

The project is reducing from two existing 30" Ø outlet pipes to one single 30" Ø outlet pipe proposed, thereby reducing the total maximum possible discharge by half from existing conditions.

Name	Size	US IE	DS IE	SUMP IE	Rim	CASTING
100 CI	24"x36" CURB INLET BOX		427.26	427.26	429.92	EXIST. CI
102 CI	24"x36" CURB INLET BOX	426.12	426.11	426.11	428.81	EXIST. CI
104 AD	30"x30" AREA DRAIN BOX	424.55	424.55	424.55	428.04	EJ 5250
106 CI	24"x36" CURB INLET BOX	423.25	423.15	423.15	426.53	EXIST. CI
108 AD	60" Ø SLAB TOP AREA DRAIN	419.62	419.62	419.62	424.92	EX. LARGE AREA DRAIN GRATE
200 CI	24"x36" CURB INLET BOX	427.51	427.51	427.51	430.03	EXIST. CI
202 CI	24"x36" CURB INLET BOX	426.53	426.53	426.53	429.55	EXIST. CI
204 CI	24"x36" CURB INLET BOX	425.60	425.60	425.60	428.40	EXIST. CI
206 CI	24"x36" CURB INLET BOX	424.63	424.63	424.63	427.59	EXIST. CI
208 CI	24"x36" CURB INLET BOX	423.49	423.49	423.49	425.68	EXIST. CI
210 AD	30"x30" AREA DRAIN BOX	422.66	422.66	422.66	425.80	EX. AD GRATE
212 CI	60" Ø SLAB TOP CURB INLET	421.16	419.67	419.67	424.78	EXIST. CI
214 CI	60" Ø SLAB TOP CURB INLET	419.50	419.50	419.50	424.76	EXIST. CI
300 AD	62"x62" AREA DRAIN BOX	419.43	419.39	411.89	424.64	EX. LARGE AREA DRAIN GRATE
302 FES	30" Ø CMP FES	419.00			421.79	

Name	Size	Length	Slope	US IE	DS IE
101 P	12"	76.12'	1.50%	427.26	426.12
103 P	15"	103.91'	1.50%	426.11	424.55
105 P	18"	85.36'	1.52%	424.55	423.25
107-1 P	24"	3.36'	4.52%	423.15	423.00
107 P	48"	137.00'	1.01%	421.00	419.62
109 P	48"	100.00'	0.19%	419.62	419.43
201 P	12"	65.23'	1.50%	427.51	426.53
203 P	12"	62.00'	1.50%	426.53	425.60
205 P	15"	64.85'	1.50%	425.60	424.63
207 P	15"	77.00'	1.48%	424.63	423.49
209 P	18"	55.31'	1.50%	423.49	422.66
211 P	18"	80.17'	1.88%	422.66	421.16
213 P	48"	92.66'	0.18%	419.67	419.50
215 P	48"	40.00'	0.18%	419.50	419.43
301 P	30"	85.06'	0.46%	419.39	419.00

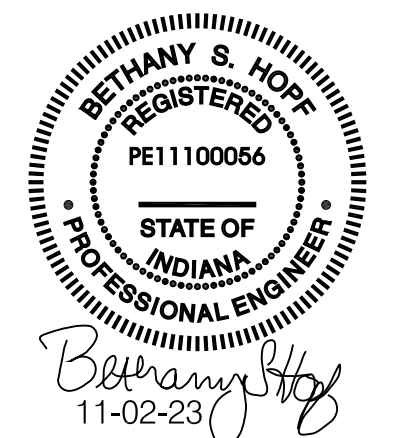
- STORM SYSTEM NOTES:**
- All pipe shall be N-12 HDPE pipe.
 - All storm structures shall be precast concrete.
 - All Flared End Sections shall be CMP, Aluminumized Type 2.
 - Re-use existing frames, grates and castings where possible. All new castings, frames and grates where required shall be East Jordan Iron Works part specified in Structure Data Table or equal.
 - SNOUT shall be installed in 300 AD over outlet pipe 301 P. See detail on sheet C1.3.
 - See Sheet C3.2 for Utility Alternates (light poles and entry road fixtures).



NOTE:
1. See sheet C5.2 Lighting and Photometric Plan for site lighting and electrical information.



Know what's below.
Call before you dig.



LINCOLN AMPHITHEATRE
 PARKING LOT IMPROVEMENTS
 LINCOLN CITY, INDIANA

Universal DESIGN ASSOCIATES, INC.
 910 Main Street
 Ferdinand, IN 47532
 Phone: 812/266-72831
 design@udassoc.com
 www.udassoc.com

DRAWN: BSH
 CHECKED: BMS
 APPROVED: BSH

UTILITY PLAN - BASE BID
 DATE: 11-02-23
 LDA PROJECT NO.: LA23102
 CNR PROJECT NO.: ENG2303730653
 SHEET NO.: C5.1

D-Series Size 1 LED Area Luminaire

Specifications:
 Size: 24" x 24"
 Length: 24" (600mm)
 Width: 24" (600mm)
 Height: 7.5" (190mm)
 Weight: 25 lbs (11kg)

Light Fixture 'A' & 'B'

Interpretation:
 The modern styling of the D-Series features a highly reflective, clear lens that directs light precisely where it is needed. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficiency long life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry also in reducing the number of poles required in even lighting applications with reduced energy costs and expected service life of over 100,000 hours.

EXAMPLE: DISK LED P/40K/70CR/15M/10VOLT/34W/REUSE/POLE/ON/DOING

Zone #	Area (sq ft)	Area (sq m)	Height (ft)	Height (m)	Foot Candles (fc)	Foot Candles (lm/m²)
1	100	9.3	15	4.6	1.0	10.8
2	200	18.6	15	4.6	0.5	5.4
3	300	27.9	15	4.6	0.3	3.2
4	400	37.2	15	4.6	0.2	2.2
5	500	46.5	15	4.6	0.2	2.2
6	600	55.8	15	4.6	0.2	2.2
7	700	65.1	15	4.6	0.2	2.2
8	800	74.4	15	4.6	0.2	2.2
9	900	83.7	15	4.6	0.2	2.2
10	1000	93.0	15	4.6	0.2	2.2

LIGHT FIXTURE 'C'

Specifications:
 Size: 18" x 18"
 Length: 18" (457mm)
 Width: 18" (457mm)
 Height: 7.5" (190mm)
 Weight: 15 lbs (7kg)

Interpretation:
 The modern styling of the C-Series features a highly reflective, clear lens that directs light precisely where it is needed. The C-Series offers the benefits of the latest in LED technology into a high performance, high efficiency long life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. C-Series outstanding photometry also in reducing the number of poles required in even lighting applications with reduced energy costs and expected service life of over 100,000 hours.

EXAMPLE: DISK LED P/40K/70CR/15M/10VOLT/34W/REUSE/POLE/ON/DOING

Zone #	Area (sq ft)	Area (sq m)	Height (ft)	Height (m)	Foot Candles (fc)	Foot Candles (lm/m²)
1	100	9.3	15	4.6	1.0	10.8
2	200	18.6	15	4.6	0.5	5.4
3	300	27.9	15	4.6	0.3	3.2
4	400	37.2	15	4.6	0.2	2.2
5	500	46.5	15	4.6	0.2	2.2
6	600	55.8	15	4.6	0.2	2.2
7	700	65.1	15	4.6	0.2	2.2
8	800	74.4	15	4.6	0.2	2.2
9	900	83.7	15	4.6	0.2	2.2
10	1000	93.0	15	4.6	0.2	2.2

CONDUIT AND WIRE SIZE SCHEDULE

Unless otherwise noted:

Amp Circuits	Conduit Size	Wire Size
15 Amp Circuits - 1/2" conduit, #12 wire	1/2"	#12
20 Amp Circuits - 3/4" conduit, #12 wire	3/4"	#12
25 Amp Circuits - 3/4" conduit, #12 wire	3/4"	#12
30 Amp Circuits - 3/4" conduit, #10 wire	3/4"	#10
35 Amp Circuits - 3/4" conduit, #8 wire	3/4"	#8
40 Amp Circuits - 3/4" conduit, #6 wire	3/4"	#6
45 Amp Circuits - 3/4" conduit, #6 wire	3/4"	#6
50 Amp Circuits - 1" conduit, #6 wire	1"	#6
60 Amp Circuits - 1 1/4" conduit, #4 wire	1 1/4"	#4
70 Amp Circuits - 1 1/4" conduit, #2 wire	1 1/4"	#2
80 Amp Circuits - 1 1/2" conduit, #2 wire	1 1/2"	#2
100 Amp Circuits - 1 1/2" conduit, #1/0 wire	1 1/2"	#1/0
110 Amp Circuits - 1 1/2" conduit, #1/0 wire	1 1/2"	#1/0
125 Amp Circuits - 1 1/2" conduit, #1/0 wire	1 1/2"	#1/0
150 Amp Circuits - 2" conduit, #2/0 wire	2"	#2/0
175 Amp Circuits - 2" conduit, #2/0 wire	2"	#2/0
200 Amp Circuits - 2" conduit, #2/0 wire	2"	#2/0

ALUMINUM CONDUCTOR SCHEDULE

FEEDER CONDUCTOR	ALUMINUM SIZE
#3 AWG	#1 AWG
#2 AWG	#1/0 AWG
#1 AWG	#2/0 AWG
#1/0 AWG	#3/0 AWG
#2/0 AWG	#4/0 AWG
#3/0 AWG	#250 kcmil
#4/0 AWG	#250 kcmil
#250 kcmil	#400 kcmil
#350 kcmil	#500 kcmil or 2(350 AWG)
#500 kcmil	#750 kcmil or 2(350 AWG)
#750 kcmil	#750 kcmil or 2(350 AWG)
#900 kcmil	#900 kcmil or 2(350 AWG)
#1100 kcmil	#1100 kcmil or 2(350 AWG)

Conductor size equivalents based on TH-W, THWN or THHW conductor type with 75°C temperature rating. In accordance with N.E.C. standards.

LIGHT FIXTURES

The lighting manufacturer name and catalog numbers listed are used to establish a standard quality and performance. Other acceptable manufacturers are: Metalex, Halo, Lumark, Lithonia, Daylight, Hubbell, Prescolite, Lightolier, Progress, Thomas, HI-Tek, McGraw Edison, General Electric, Columbia, McPherson, Greenlee, Sure-Lites, Emergi-Lite and Lightlamps.

A - Equal to Lithonia Lighting model #DSX1-LED-PS-40K-70CR-TSM-MVOLT-RPA-DLXD; LED pole mounted light fixture, 14,605 lumens, 70 CR, 530 ma, 4000K, 102 watts, type TSM distribution distribution, black finish, clear lens, 120-277 volt, wet location rated, dark sky compliant. Contractor to mount light fixture to existing 36" tall round pole (field verify size) to new location. Set pole on new concrete base as detailed on sheet C6.1. See photometric plan for distribution orientation.

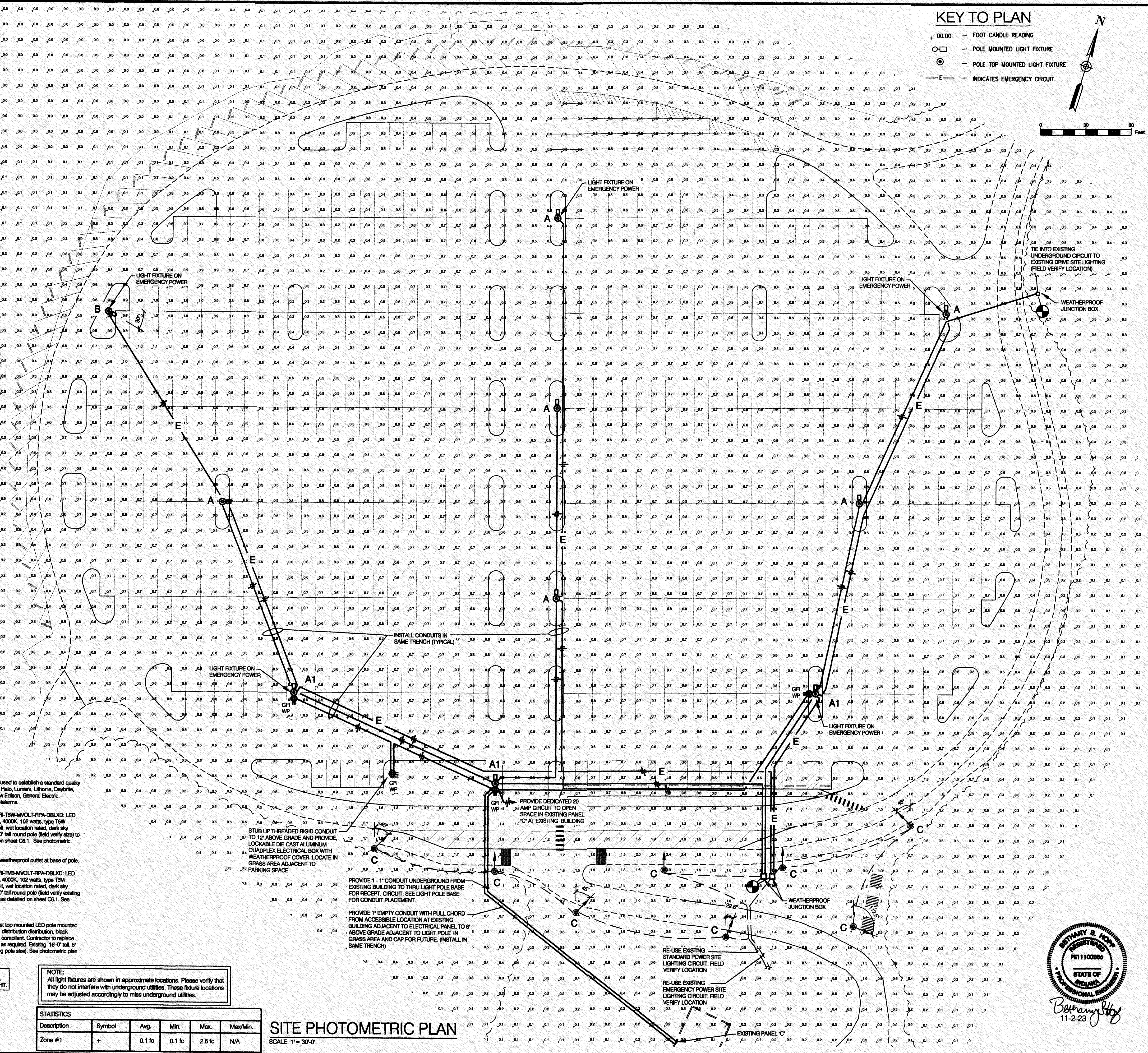
A1 - Same as light fixture 'A' except provide a 120 volt duplex, weatherproof outlet at base of pole.

B - Equal to Lithonia Lighting model #DSX1-LED-PS-40K-70CR-TSM-MVOLT-RPA-DLXD; LED pole mounted light fixture, 13,785 lumens, 70 CR, 530 ma, 4000K, 102 watts, type TSM distribution distribution, black finish, clear lens, 120-277 volt, wet location rated, dark sky compliant. Contractor to mount light fixture to existing 36" tall round pole (field verify size) to new location. Set pole on new concrete base as detailed on sheet C6.1. See photometric plan for distribution orientation.

C - Equal to Cooper Lighting model #ARB-B2-LED-T3-BK; post top mounted LED pole mounted light fixture, 4,500 lumens, 70 CR, 4000K, 48 watts, type III distribution distribution, black finish, clear lens, 120-277 volt, wet location rated, dark sky compliant. Contractor to replace existing post top fixture, re-use existing circuiting. Rework as required. Existing 16" tall, 6" round pole and concrete base to remain (field verify existing pole size). See photometric plan for distribution orientation.

NOTE: ALL NEW ITEMS ARE SHOWN IN BOLD LINE WEIGHT, ALL EXISTING ITEMS ARE SHOWN IN LIGHT LINE WEIGHT.

NOTE: All light fixtures are shown in approximate locations. Please verify that they do not interfere with underground utilities. These fixture locations may be adjusted accordingly to miss underground utilities.

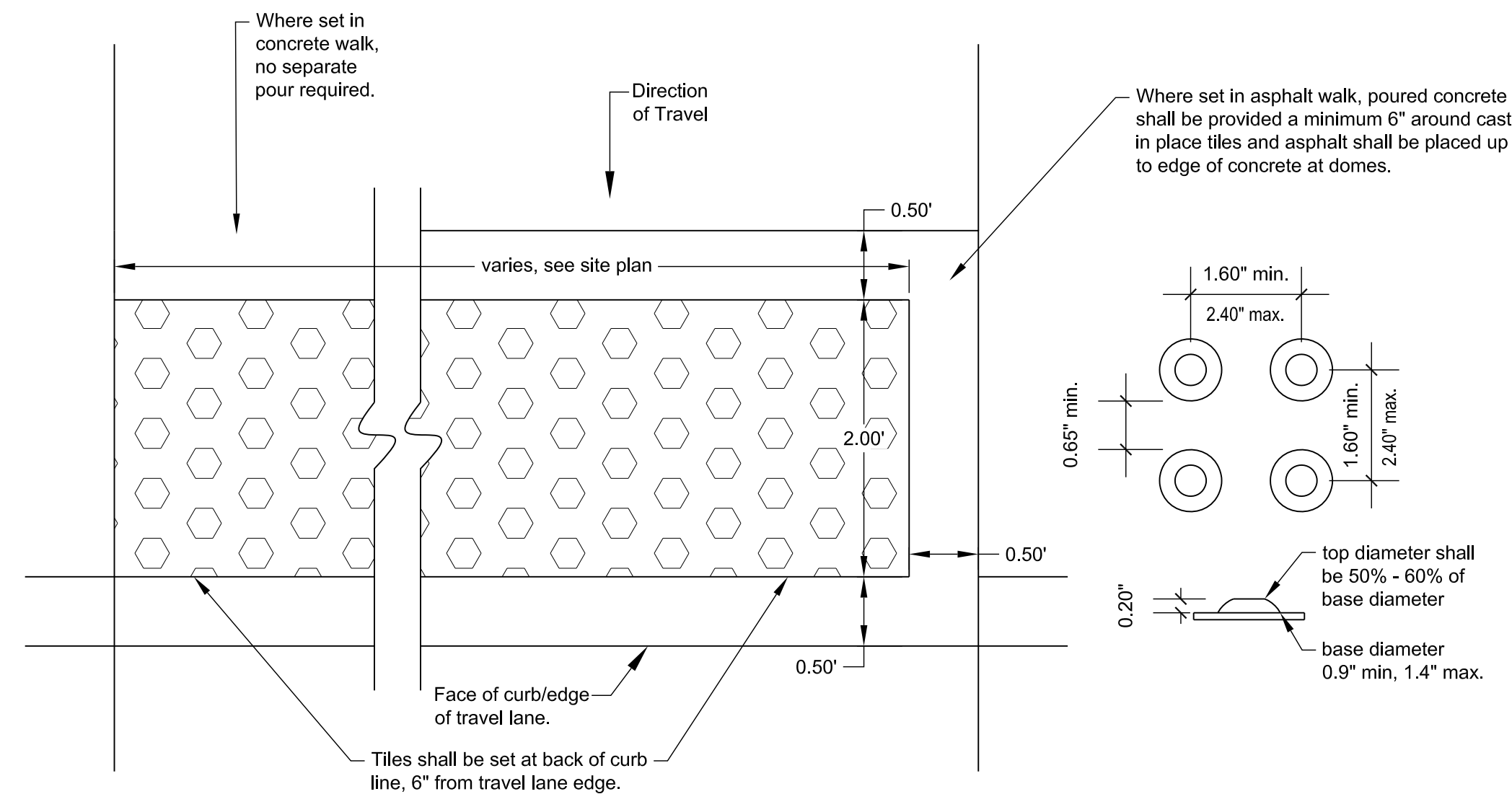


UNIVERSAL DESIGN ASSOCIATES, INC.
 910 Main Street
 Fort Collins, CO 80501
 Phone: 970-225-2831
 Fax: 970-225-2832
 www.universal-design.com

LINCOLN AMPHITHEATRE
 PARKING LOT IMPROVEMENTS
 LINCOLN CITY, INDIANA

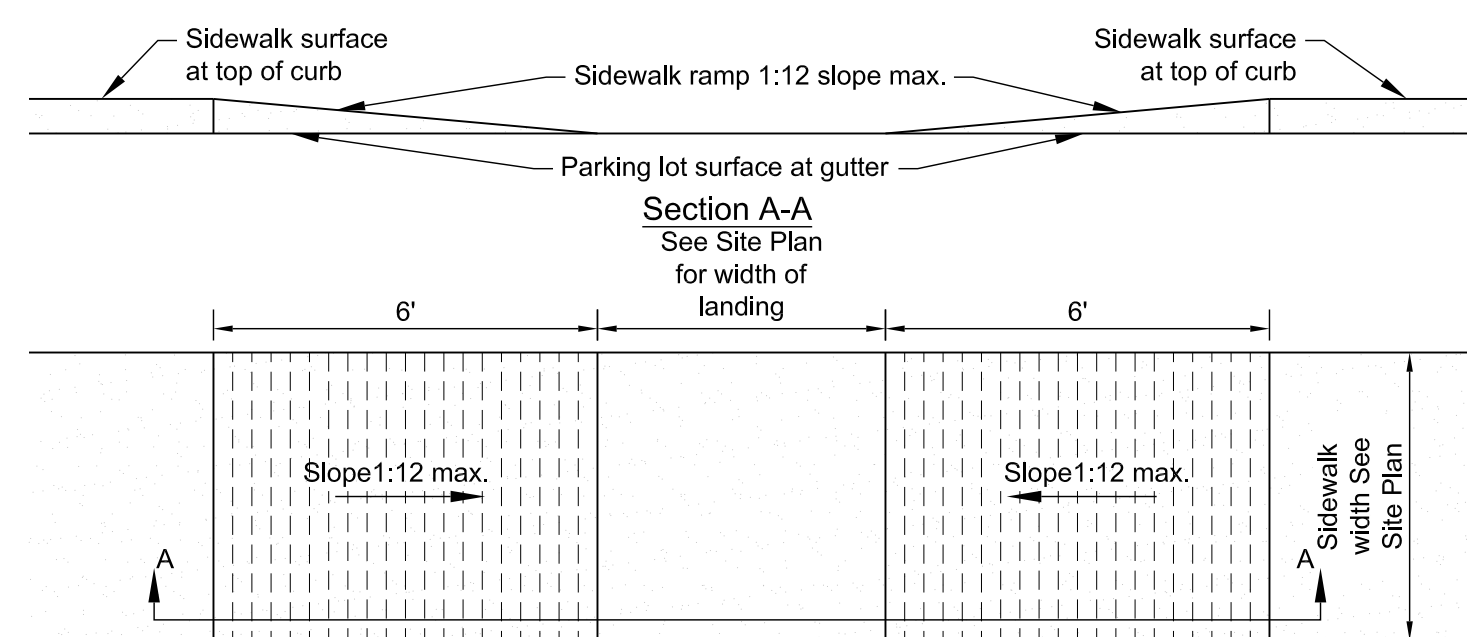
DATE: 11-2-23
PROJECT NO: LA23102
SHEET NO: C5.2

UNIVERSAL DESIGN ASSOCIATES, INC.
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 #11100066
 11-2-23

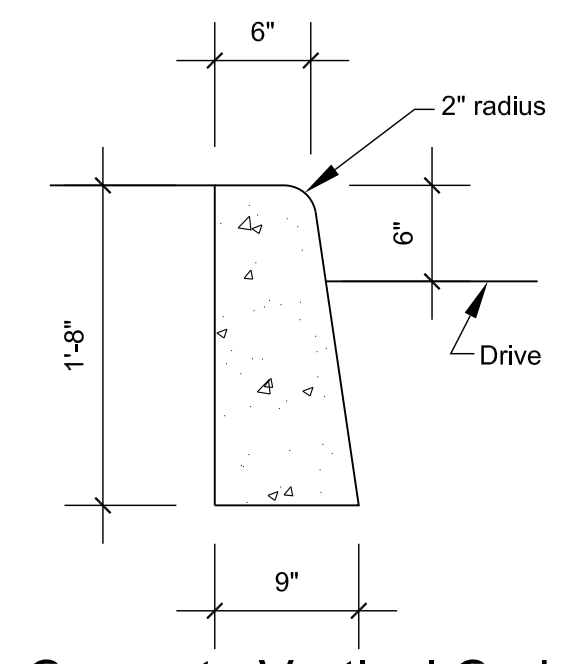


Detectable warning panels shall be 2' deep minimum (along the travel path) and shall extend the full width of the sidewalk where noted on the site plan. Panels shall be Armor-Tile Cast In Place (or equal) where installed in new concrete, or shall be Armor-Tile Surface Applied Tile (or equal) where installed on existing concrete and shall be Dark Gray in color for the concrete sidewalk applications and shall be Bright White in the loading zone asphalt walkway, verify color with Owner prior to ordering. Install per manufacturer specifications.

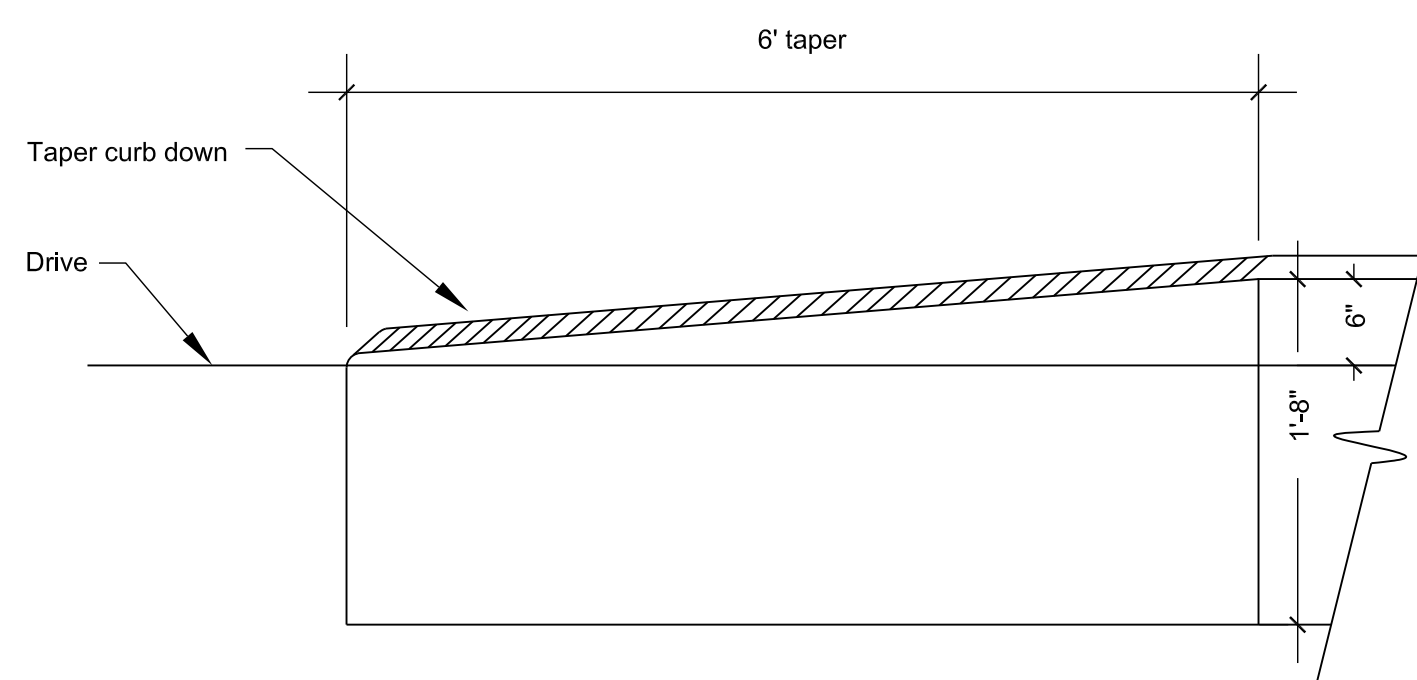
**Detectable Warning Device
Truncated Domes**
No Scale



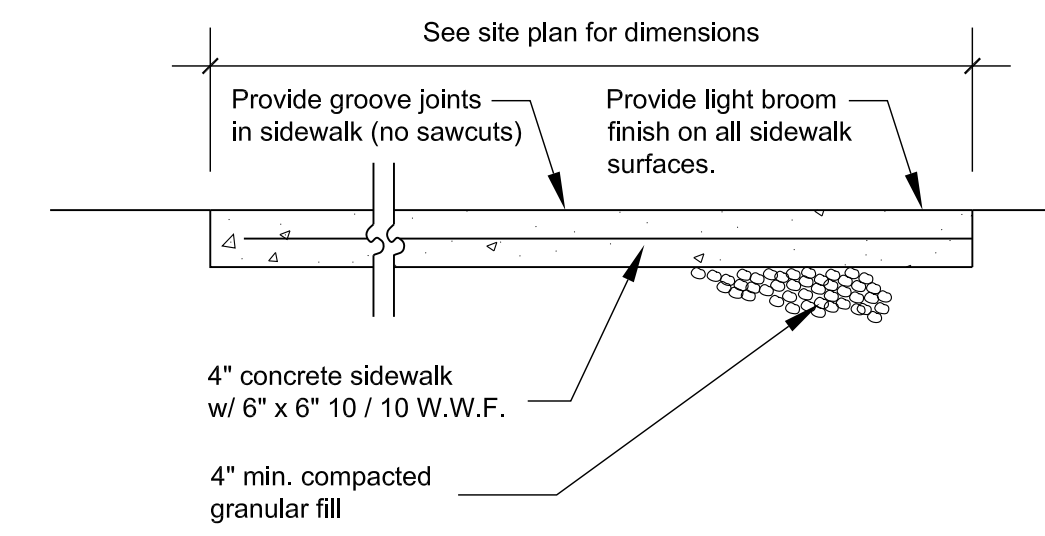
Typical Curb Ramp Details
Not to Scale



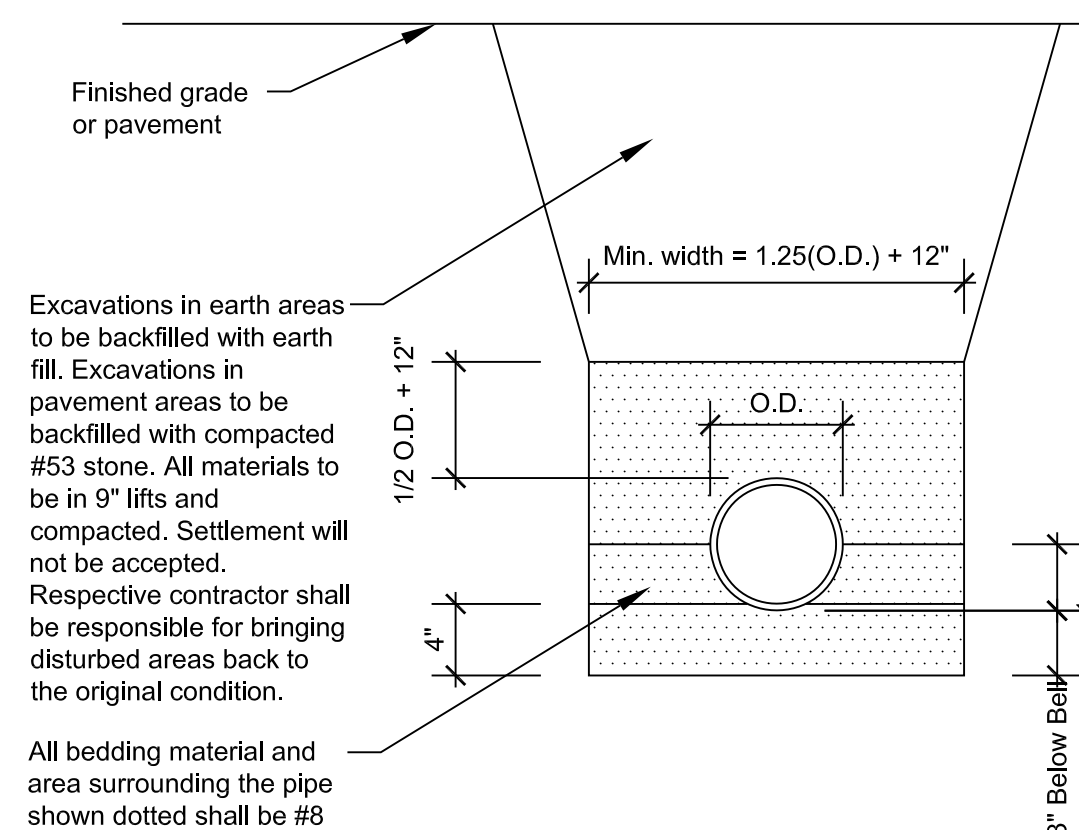
Concrete Vertical Curb
No Scale



Typical Curb Taper Detail
Scale: 3/4\"/>

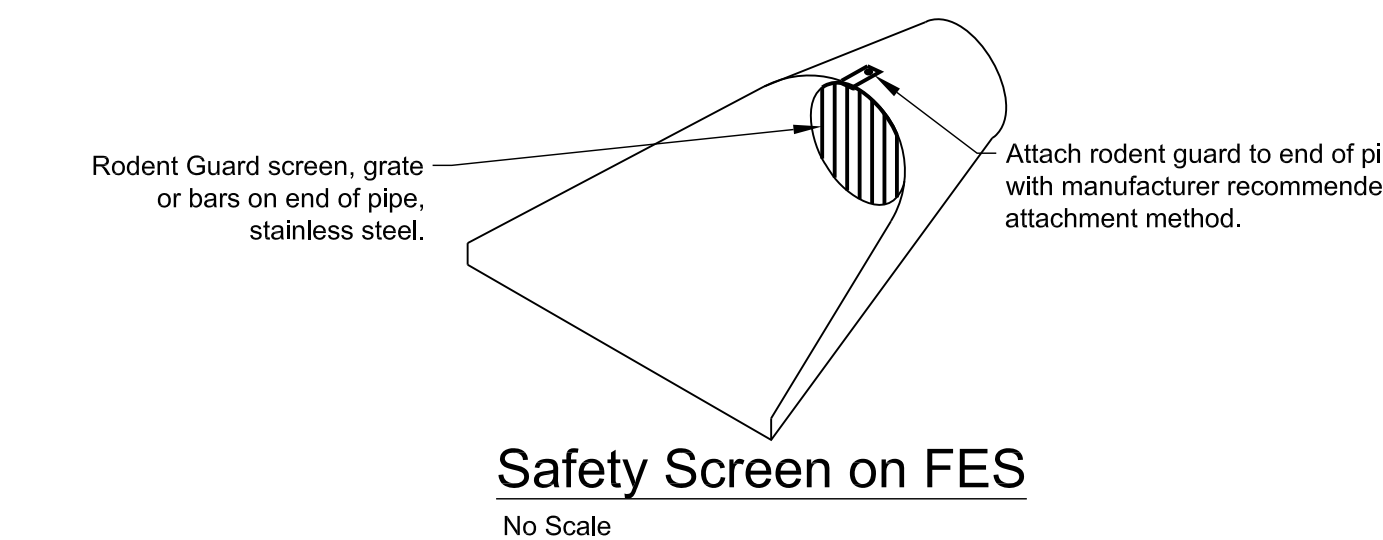


Typical Sidewalk Detail
Scale: 3/4\"/>

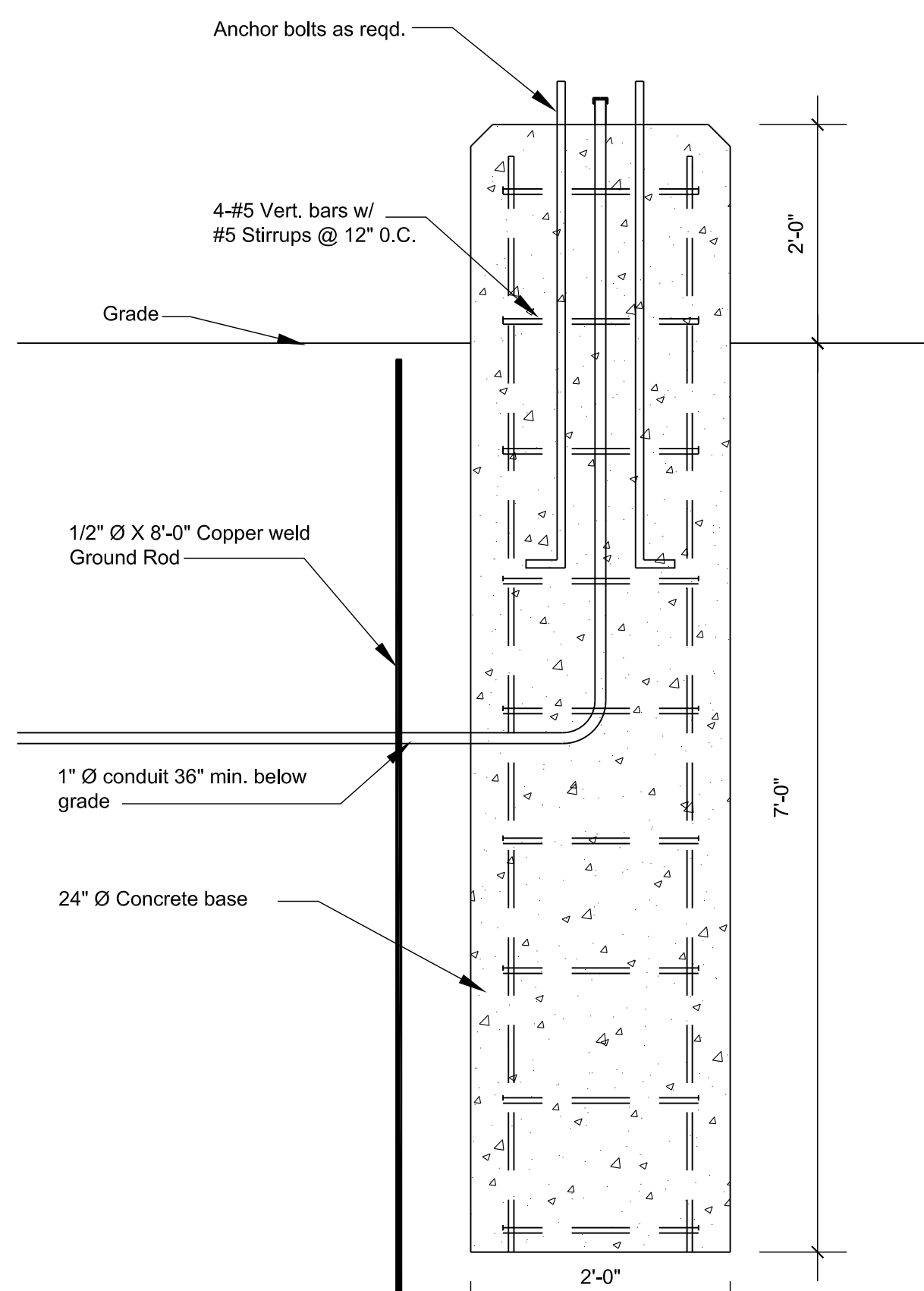


Typical Pipe Bedding Detail
Not to Scale

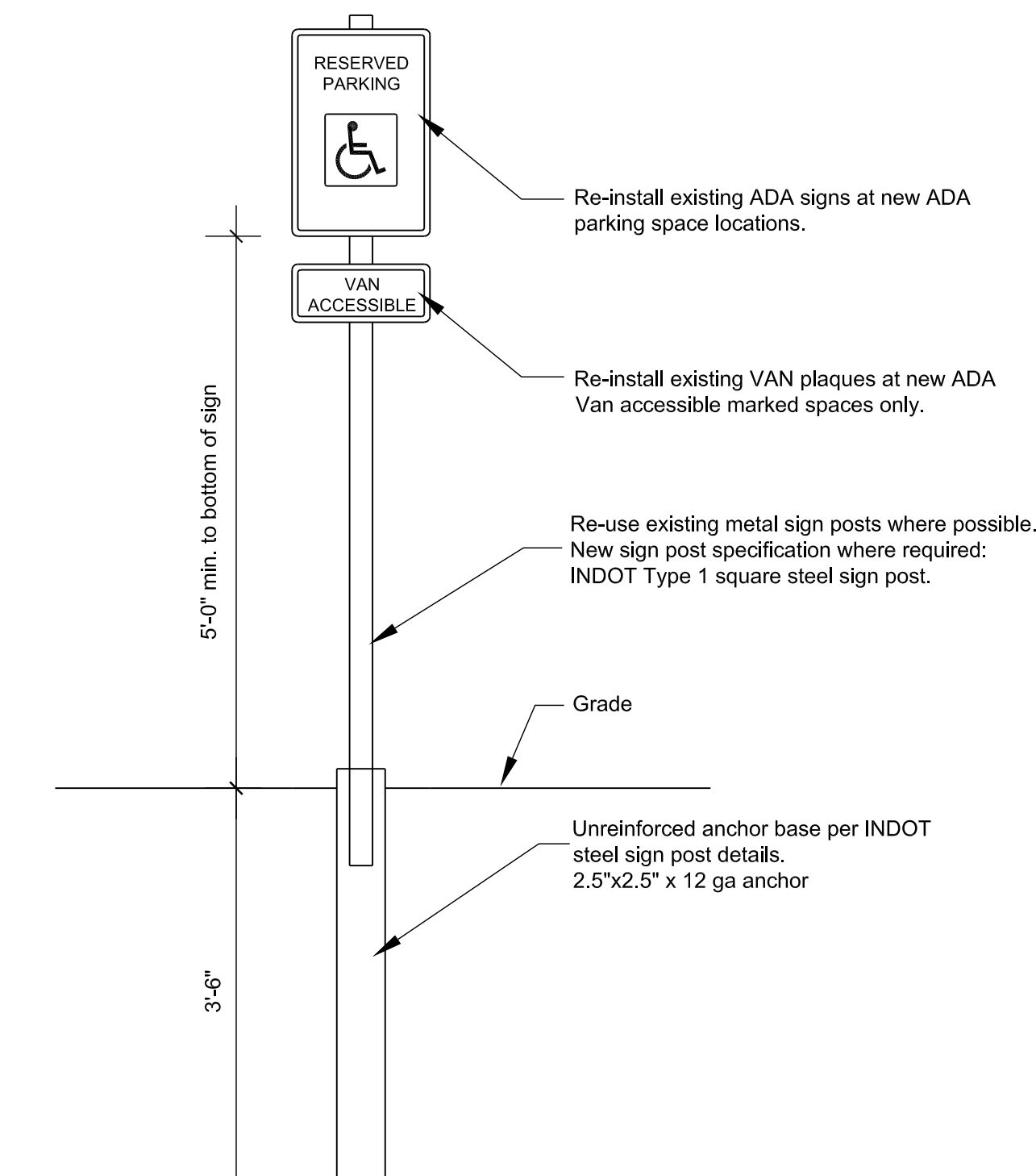
- Seal Coat Specification:**
- Existing Asphalt Surface Preparation**
 - The existing pavement surface shall be sound, clean and free of oil and structural defects prior to sealcoating.
 - All vegetation shall be removed from all surfaces to be sealed.
 - All surfaces to be sealed shall be thoroughly cleaned to remove all foreign debris using a mechanically scraped forced air sweeper and steel bristle hand brooms.
 - Muddy areas shall be scraped thoroughly, scrub-washed and pressure rinsed with clear fresh water.
 - Oil spots shall be scraped, scrubbed and lightly burned with a torch, if necessary, to remove visible excess oil. Coat old oil patches with a Neyra or approved equal primer to achieve adequate adhesion and prevent bleeding.
 - Treat any old or badly oxidized asphalt pavement that has lost its binder through erosion with a prime coat of penetrating primer at a rate of 0.0075 to 0.0300 gal. per square yard or a diluted sealer coat (one part sealer to three parts water) at a rate of 0.04 to 0.06 gal. per square yard.
 - Crackfilling**
 - Any existing cracks over 1/4" width shall be thoroughly cleaned out with air or water pressure and tooled and filled with a flexible crack filler.
 - Any existing cracks that have been previously filled and have deteriorated shall have old fill material removed and be refilled with a flexible crack filler.
 - Any existing cracks that have been previously filled and have settled shall be cleaned and additional flexible crack filler added.
 - Sealcoating**
 - Apply a primer coat of sealer (5 to 6 pounds of sand per gallon of undiluted sealer) over entire surface.
 - Fog spray pavement with fresh, clean water, if necessary, to achieve workability and ease of spreading. No voids or pinholes shall be permitted.
 - Allow prime coat of sealer to thoroughly dry prior to applying second coat.
 - Apply second coat of sealer to entire surface.
 - Apply sealer at a minimum application rate of 0.10 gal. per square yard per coat.
 - Do not allow surface runoff containing sealer to enter storm sewer drain system.
 - Any machine used for applying sealcoat shall have adequate agitation to keep material in proper suspension at all times. It shall be equipped with a water fog bar so that the pavement is dampened (but without puddles) when sealcoat is applied if temperatures are above 85 deg. F or in hot, bright sun.
 - Any spray distributor used for application of the seal coat shall be self-propelled, equipped with pneumatic tires, have full sweep agitator blades and be capable of applying the required coat weight of sand-reinforced sealcoat evenly over the entire width of the application bar to provide a smooth, uniformly coated surface.
 - Striping**
 - Stripe areas shown on drawing.
 - All pavement areas to be striped shall be clean and dry before striping can begin.
 - Colors: All parking space lines and stripeouts shall be white. ADA symbols and lettering shall be white and blue as indicated in details below.
 - Pavement paint shall be Low VOC Acrylic traffic marking paint, colors complying with FS TT-P-1952.
 - Weather Limitations and Curing**
 - The seal coat shall not be applied when the surface is wet or when the humidity or impending weather conditions will not allow proper curing. The seal coat shall be applied only when the air or pavement temperature is 50 degrees F. and rising and is expected to remain above 50 degrees F. for 24 hours.
 - Do not allow traffic on any new sealant for a minimum of 24 hours after application. Test for trafficability before use.



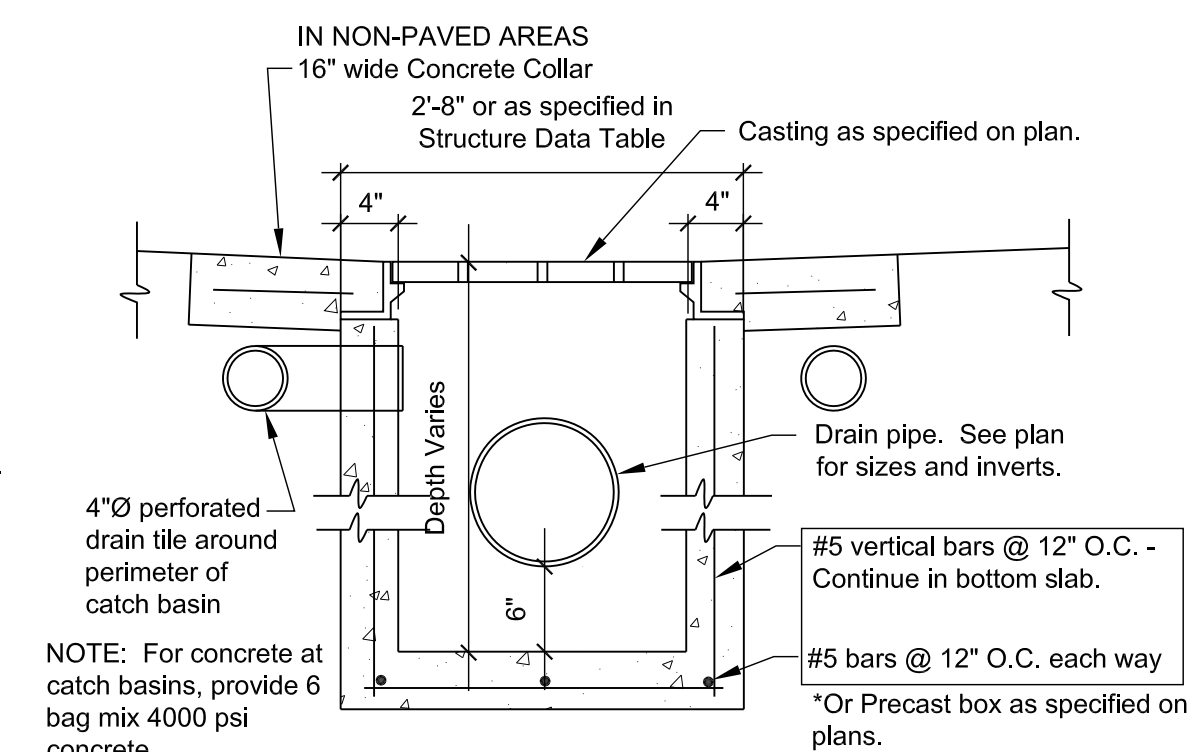
Safety Screen on FES
No Scale



Typical Light Pole Base Detail
SCALE: 3/4\"/>



ADA Parking Sign Detail
Scale: 3/4\"/>



Catch Basin Detail
SCALE: 3/4\"/>

BETHANY S. HOFF
REGISTERED
PE11100066
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN: BSH, CHECKED: BMS, APPROVED: BSH
 SITE DETAILS - BASE BID
 DATE: 11-02-23
 LDA PROJECT NO.: LA23102
 ENR PROJECT NO.: ENG2303730653
 SHEET NO.: C6.1
 UNIVERSAL DESIGN ASSOCIATES, INC.
 910 Main Street, Ferdinand, IN 47532
 Phone: 812/697-2831, design@udassoc.com, www.udassoc.com
 LINCOLN AMPHITHEATRE PARKING LOT IMPROVEMENTS - INDIANA
 LINCOLN CITY, INDIANA
 AS NOTED

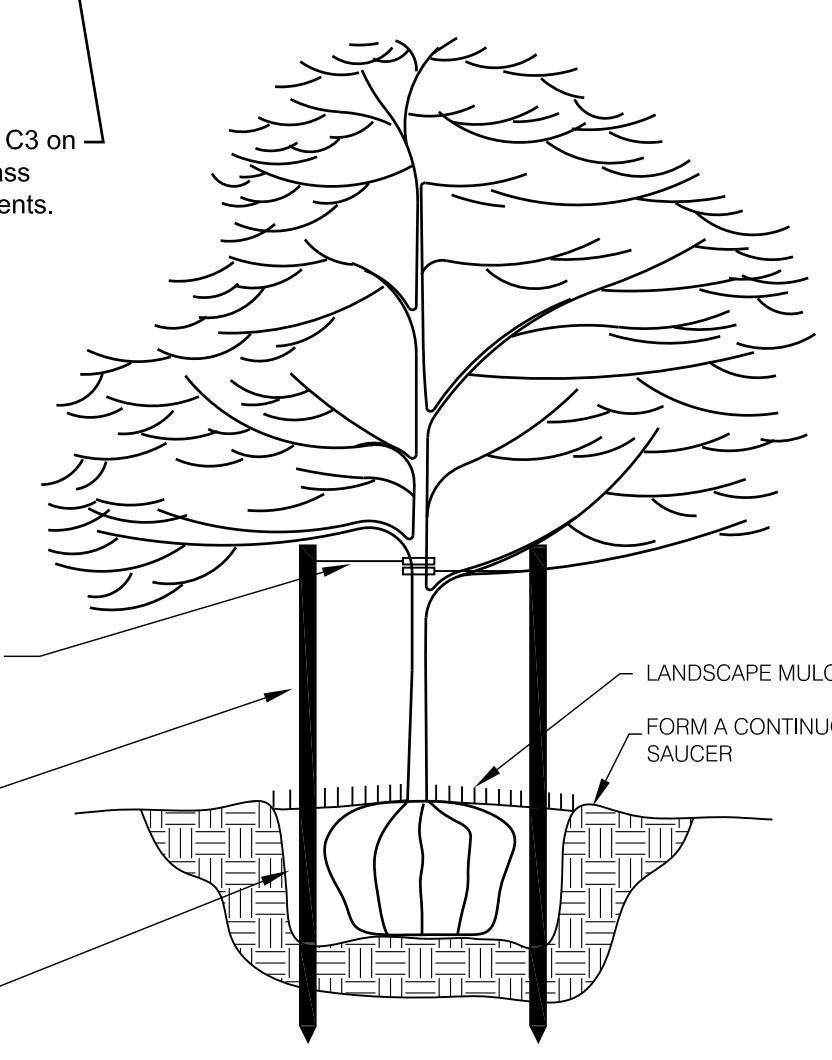
- A. QUERCUS SHUMARDII - SHUMARD OAK, min. size at planting 2-1/2" to 3" caliper, B&B
- B. QUERCUS MUEHLENBERGII - CHINKAPIN OAK, min. size at planting 2-1/2" to 3" caliper, B&B
- C. AMELANCHIER CANADENSIS - SERVICEBERRY, min. size at planting 8' height, multi-stem, B&B
- D. GYMNOCLADUS DIOICUS - KENTUCKY COFFEETREE, min. size at planting 2-1/2" to 3" caliper, B&B
- E. LIRIODENDRUM TULIPIFERA - TULIP TREE, min. size at planting 2-1/2" to 3" caliper, B&B

J.S. CONSULTING ENGINEERS, LLC

Note: See specifications for tree planting information and requirements for preparation, planting and care. See sheet C1.2 for seeding in grassed islands.

LANDSCAPING NOTES

1. All tree plantings and interior grass islands are included in BASE BID.
2. Only grass areas outside of the Alternate Bid C2 and C3 new parking areas are part of Alternate Bids. See sheet C3.2.
3. Contractor shall be responsible for touch up and re-grading in disturbed construction areas as necessary to bring grades back to proper elevations.
4. Generally yard area topsoil placement and seeding will be completed by Others in Demolition and Earthwork contract, however, Contractor shall repair yard areas disturbed by construction (place 4" minimum of topsoil if needed) and place 18" minimum of topsoil at all landscape areas as shown. Topsoil will be brought to the site and stockpiled by Others in Demolition and Earthwork contract. Contractor responsible for placement of topsoil to landscape areas. Upon completion of topsoil placement, Contractor responsible for grading the stockpile area smooth and seeding for lawn.
5. At the end of construction, all disturbed lawn areas and new landscape areas shall be loosened up and graded to a uniform slope to elevations shown, ready for seeding, strawing and landscaping by Contractor. All finish grading of final surfaces shall provide a smooth surface free of ridges or depressions greater than 2". Finish surfaces shall be paved, rocked, landscaped or seeded and strawed for a dense stand of lawn as noted on site plan.
6. All planting beds shall receive herbicide.
7. All plants are to be planted with 1/3 peat moss and 2/3 soil and 18-24-6 starter fertilizer.
8. All planting beds shall have 6 cu. ft. of peat moss per 150 sq. ft. tilled into them.
9. Provide a 1 year warranty on all plants and trees.
10. Inspect all trees to be planted upon pickup/delivery. Reject those specimens which present severe health and form limitations or visible damages.
11. Limit pruning at the time of planting. Prune only broken, dead, or significantly structurally defective branches. Also prune girdling and/or adventitious roots.
12. Protect tree trunks with mesh or screen materials only if it is a thin bark species or there is a threat of trunk damage by animals. Remove as appropriate.
13. Whenever possible, determine the north side of the tree (sometimes marked with paint) and orient the tree similarly at the planting site.
14. Each tree must be planted so that the trunk flare is at grade level. To locate the trunk flare, find the first main lateral root and plant the tree with that first root at or no more than 1" below grade.
15. In wet or slowly draining areas, position the root flare 1" to 2" above grade, and insure good soil contact for radial roots at the edge of the root ball.
16. Completely remove the burlap and wire basket from the upper 1/2 of the root ball, or as needed to expose the root flare and the primary structural roots of the tree. You may remove the entire basket and burlap.
17. Place root ball on unexcavated or tamped soil. Do not over-dig the planting hole.
18. Do not cover the trunk or the top of the root ball with excess soil. Gently tamp soil around root ball base firmly with foot pressure so that root ball does not shift and any air gaps are removed.
19. Spread 2"-4" of mulch around the tree in a minimum 36" diameter circle around the tree trunk. Do not place mulch in contact with the tree trunk.
20. Water thoroughly immediately after planting.



NOTE: PLANT SO TOP OF ROOT BALL IS EVEN WITH FINISHED GRADE

NOTE: PAINT ALL CUTS OVER 1"

2 STRAND TWISTED 12 GAUGE GALV. WIRE ENCASED IN 1" DIA. RUBBER HOSE

HARDWOOD STAKES 2" x 2" DRIVEN FIRMLY INTO SUBGRADE PRIOR TO BACKFILLING (STAKE AS NECESSARY FOR FIRM SUPPORT)

SPECIFIED PLANTING MIX: WATER AND TAMP TO REMOVE AIR POCKETS

LANDSCAPE MULCH (3-0" DIA.)

FORM A CONTINUOUS SAUCER

2 x BALL DIA.

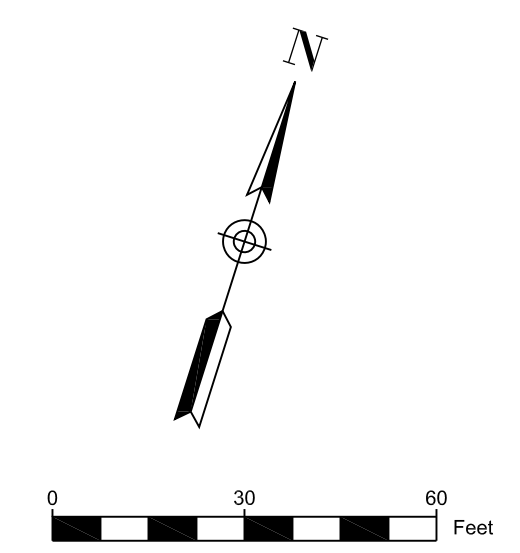
TREE PLANTING DETAIL
N.T.S.

See Alternate Bid C2 on sheet C3.2 for grass seeding requirements.

See Alternate Bid C2 on sheet C3.2 for grass seeding requirements.

In new landscape islands, mound topsoil to a minimum of 12" above adjacent pavement grades at the center of the island and taper down to pavement grades providing a minimum depth of 6" topsoil, typical all islands.

See Alternate Bid C3 on sheet C3.2 for grass seeding requirements.



This drawing is the property of Universal Design Associates, Inc. Universal Design Associates, Inc. shall not be held responsible for any errors or omissions in this drawing or any other project without the written consent of Universal Design Associates, Inc. The contractor shall be responsible for obtaining all necessary permits and for obtaining all necessary approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary approvals from the appropriate authorities.

DATE	BY	REVISIONS

910 Main Street
Ferdinand, IN 47532
Phone: 812/667-2831
design@udassoc.com
www.udassoc.com



LINCOLN AMPHITHEATRE
PARKING LOT IMPROVEMENTS
LINCOLN CITY, INDIANA

DRAWN	BWSH	CHECKED	BMS	APPROVED	BWSH
SITE LANDSCAPING PLAN - BASE BID					
DATE	11-02-23	USA PROJECT NO.	LA23102	CNR PROJECT NO.	ENG2303730653
SHEET NO.	C7.1	SCALE	1" = 30'		

BETHANY S. HOFF
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
PE11100066

Bethany Hoff
11-02-23