



# DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

County Executive  
Joseph T. Parisi

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Commissioner / Director  
Gerald J. Mandli

November 25, 2013

## ATTENTION ALL REQUEST FOR BID (RFB) PROPOSAL HOLDERS

RFB NO. 313086 - ADDENDUM NO. 3

### ARCTIC ANIMAL EXHIBIT AND CONCESSIONS

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**BIDS DUE**: THURSDAY, DECEMBER 12, 2013, 2:00 PM.  
DUE DATE AND TIME ARE NOT CHANGED BY THIS ADDENDUM.

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This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB. **Bidders must acknowledge all Addenda on the Bid Form.**

#### PLEASE MAKE THE FOLLOWING CHANGES:

#### **GENERAL**

##### **1. Bid Form**

Unit Price 5 added for additional live rock. Delete current Bid Form; replace with new Bid Form included in this Addendum.

#### **CIVIL**

##### **2. Sheet C2.1**

Note revised to read:

INV.-RW is invert below top of footing, may need sleeved thru footing

\*INV.-RW is invert above footing, sleeve thru wall

Refer to structural for locations anticipated to impact footing depths

##### **3. Sheet C2.6**

Backwater Valves to be added at the connections of Underslab Drainage as shown on Sheet C2.6 at manholes ST 2.22 and ST 2.31. An automatic backwater valve shall be provided at the catch basin to prevent reverse flow of stormwater into the underslab drainage system. The backwater valve shall be provided at the inlet of the underslab drainage system to the catch basin to permit access to the device with minimal head pressure required for opening.

## **SITE**

### **4. Sheet CS1.0**

Modifications to temporary zoo perimeter fence in area of administration building, as well as by maintenance and animal health center buildings. Delete current Sheet CS1.0; replace with new Sheet CS1.0, issued with this Addendum.

### **5. Sheet SD1.0**

Modified demo notes at north east portion of site. Delete current sheet SD1.0; replace with new Sheet SD1.0, issued with this Addendum.

### **6. Sheet SD1.1**

Updated notes on images 5, 6, 7, 10, 11, & 12. Delete current sheet SD1.1; replace with new Sheet SD1.1, issued with this Addendum.

### **7. Sheet SA1.2**

Added reference to seal underwater viewing structure sheet A6.1. Updated reference for section thru grizzly bear stream pool. Delete current sheet SA1.2; replace with new Sheet SA1.2, issued with this Addendum.

### **8. Sheet SG1.0**

Added erosion control blanket enlargement at bottom of sheet. Delete current sheet SG1.0; replace with new Sheet SG1.0, issued with this addendum.

### **9. Sheet SG1.1**

- Grade modifications at both rain collection tanks at tundra grill. Grade modifications at edge of polar bear pool. Delete current sheet SG1.1; replace with new Sheet SG1.1, included with this addendum.
- Elevations clarified at pools. 'ts' denotes elevation at top of structural slab. 'tr' denotes top of rockwork elevation.

### **10. Sheet SG1.2**

- Minor grade modifications- highlighted on plan. Delete current sheet SG1.2; replace with new Sheet SG1.2, included with this addendum.
- Elevations clarified at pools. 'ts' denotes elevation at top of structural slab. 'tr' denotes top of rockwork elevation.

### **11. Sheet LS1.0**

Added note that "base bid to include relocation and placement of live rock salvaged from site. See bid form for unit price to add additional live rock, contractor to match as closely as possible rock brought in from off site to rock salvaged from site." Delete current sheet LS1.0; replace with new Sheet LS1.0.

### **12. Sheet ST2.1**

Updated reference details A & B. Delete current sheet ST2.1; replace with new Sheet ST2.1.

### **13. Sheet YA1.0**

Added note that "base bid to include relocation and placement of live rock salvaged from site. See bid form for unit price to add additional live rock, contractor to match as closely as possible rock brought in from off site to rock salvaged from site." Delete current sheet YA1.0; replace with new Sheet YA1.0.

### **14. Sheet ST1.1 & ST1.2**

Delete the 6<sup>th</sup> (last) rockwork type shown on the legend, this type of work is not included

## **ARCHITECTURAL**

### **15. Specification section 033600, Artificial Rockwork**

Delete item C/ part 1.2; this type of work not included

### **16. Specification section 034100 , Precast structural concrete; and architectural and structural sheets**

- Other panel core designs may be utilized provided they meet all performance criteria including structural and r-value.
- Insulation type may be extruded or expanded polystyrene provided that all performance criteria is met
- walls will have cast-in reveals only- there is no formliner
- the pre-cast walls are to be integrally colored- to match Davis Colors "Outback"
- panel joints up to ½" wide may use security sealant as specified in lieu of grouting
- the concession building panels may be 12" in lieu of 14" provided all performance criteria is met
- chamfers may be ½" in lieu of ¾"
- depth of decorative reveals may be ½" in lieu of 5/8"
- all plates and angles at floor seal holding rooms (503, 504, 505) to be stainless steel- all other plates and angles for installation of the panels in bear and seal buildings to be galvanized
- there are locations where cagework is shown welding to embeds at jamb and head of openings- if a 6" minimum depth of concrete is provided that can be drilled for epoxy anchors- then the embeds can be deleted
- all conduit and electrical devices are surface mounted.

### **17. Sheet A1.1**

- Changed columns D6, D8, F8, and J5 to round steel columns per structural plan.
- Column J5 moved north to fit in exterior wall per structural plan.
- Changed wall partitions to encapsulate round columns as bubbled.
- Delete current sheet A1.1; replace with new Sheet A1.1, included with this addendum.

### **18. Sheet A1.4**

- Roof elevation raised or lowered 1" where bubbled.
- Added new detail 6/A1.4 for added steel channel at vestibule overhang.
- Moved RTU & mechanical screen south to match mechanical drawings.
- TPO membrane now graphically indicated
- Delete current sheet A1.4; replace with new Sheet A1.4, included with this addendum.

### **19. Sheet A1.5**

- Corrected elevations, tags, & notes as bubbled.
- Delete current sheet A1.5; replace with new Sheet A1.5, included with this addendum.

- 20. Sheet A1.6**
- Corrected elevations, tags, & notes as bubbled.
  - Delete current sheet A1.6; replace with new Sheet A1.6, included with this addendum.
- 21. Sheet A1.7**
- Corrected elevations, tags, & notes as bubbled.
  - TPO membrane now graphically indicated
  - Delete current sheet A1.7; replace with new Sheet A1.7, included with this addendum.
- 22. Sheet A1.8**
- Corrected elevations, tags, & notes as bubbled.
  - TPO membrane now graphically indicated
  - (8/A1.8) added steel plate per structural drawings
  - Delete current sheet A1.8; replace with new Sheet A1.8, included with this addendum.
- 23. Sheet A1.9**
- Corrected elevations, tags, & notes as bubbled.
  - TPO membrane now graphically indicated
  - Delete current sheet A1.9; replace with new Sheet A1.9, included with this addendum.
- 24. Sheet A1.10**
- Corrected elevations, tags, & notes as bubbled.
  - TPO membrane now graphically indicated
  - Added bear window jamb detail 16
  - Delete current sheet A1.10; replace with new Sheet A1.10, included with this addendum.
- 25. Sheet A3.1**
- Corrected dimension strings on interior walls.
  - Added note regarding openings in wall on detail 4/a3.1.
  - Enlarged supply air opening in concrete wall over the door to maternity den (1/a3.1)
  - Delete current sheet A3.1; replace with new Sheet A3.1, included with this addendum
- 26. Sheet A3.2**
- Add “¼” glass mat sheathing” to tpo roofing note
- 27. Sheet A3.3**
- Elevation 4, t.o. roof elevation to be 113'-0" =/-
  - Elevations 3 & 4, add “ with reveal pattern to pre-cast note 3.02
- 28. Sheet A3.4**
- Lowered north cast in place concrete retaining wall 1” to elev. 112'-10”.
  - Corrected door head elevation to read 107'-7”.

**29. Sheet A3.5**

- Tpo membrane now graphically indicated
- Minor adjustments to some notation leaders.
- Lowered north cast in place concrete retaining wall 1" to elev. 112'-10".
- Delete current sheet A3.5; replace with new Sheet A3.5, included with this addendum

**30. Sheet A5.1**

- (a/a5.1) thickened cast in place concrete site wall screening the freezer to 12" wide to match structural.
- (a/a5.1) changed section of partial height wall to 2'-8" tall, and made two more sections of partial height wall 2'-8" tall.
- (a/a5.1) changed downspouts to 4" sq.
- (b/a5.1) removed reference to wood joist size & spacing.
- (b/a5.1) corrected ductwork to avoid engaging full height wall.
- Delete current sheet A5.1; replace with new Sheet A5.1, included with this addendum.

**31. Sheet A5.2**

- All downspouts to be 4" sq.
- tpo roofing note to include ¼" glass mat sheathing

**32. Sheet A5.3**

- All downspouts to be 4" sq.

**33. Sheet A5.4**

- Underslab Vapor barrier required- called out in keyed note 03.05

**34. Sheet A5.5**

- Vapor barrier & Tpo membrane layer now graphically indicated
- Minor notes as bubbled.
- Embed plates & angles for pre-cast at floor to be stainless steel in seal holding areas (rooms 503, 504, and 505). Embeds at roof and for cagework attachment to be galvanized. Floor and roof at all other areas to have galvanized embed plates & angles.
- Delete current sheet A5.5; replace with new Sheet A5.5, included with this addendum.

**35. Sheet A5.6**

- Vapor barrier & Tpo membrane now graphically indicated
- Minor notes as bubbled.
- Embed plates & angles for pre-cast at floor to be stainless steel in seal holding areas (rooms 503, 504, and 505). Embeds at roof and for cagework attachment to be galvanized. Floor and roof at all other areas to have galvanized embed plates & angles.
- Delete current sheet A5.6; replace with new Sheet A5.6, included with this addendum

## **STRUCTURAL**

### **36. Sheet S1.1 – Restaurant Foundation Plan**

- Added Column Grid Label “L”
- Revised top of wall elevations and layout near exterior door at Grid H-4
- Revised top of wall elevations and layout at exterior door between Grids C & D at Grid 2
- Added Section Cut 13/S7.1 along Grid 8
- Revised t.o. wall elevations and layout along Grid F between Grids 8 & 9
- Revised top of wall elevations and layout at exterior door at Grid G-10
- Revised top of wall elevations and layout at exterior door between Grids B & C at Grid 11
- Revised dimensions, wall elevations and layout at segmented wall
- Delete current sheet S1.1; replace with new Sheet S1.1, issued with this addendum.

### **37. Sheet S1.2 – Restaurant Roof Framing Plan**

- Revised section number reference at Light Gage Bracing note
- Revised top of steel elevations in two locations
- Revised joist bearing elevations in two locations
- Added Section 7/S9.2 in two locations
- Removed partition wall steel support framing
- Revised section number reference near roof screen framing, RTU & screen wall location, & steel joist size
- Delete current sheet S1.2; replace with new Sheet S1.2, issued with this addendum.

### **38. Sheet S2.1 – Den Foundation Plan**

- Revised top of wall elevations and layout along Grid B
- Revised top of wall elevations and layout at Grid 10 near the segmented wall.
- Revised top of slab elevation note in bear den Delete current sheet SG1.0; replace with new Sheet SG1.0, issued with this addendum.
- Delete current sheet S2.1; replace with new Sheet S2.1, issued with this addendum.

### **39. Sheet S2.1 – Den Roof Framing Plan**

- Added Section 7/S9.2
- Delete current sheet S2.1; replace with new Sheet S2.1, issued with this addendum.

#### **Sheet S3.1- Bear Holding Foundation Plan & Framing Plan**

- Revised Trench Drain in NW Corner
- Removed Wing walls along North hallway
- Revised T.O. Roof and T.O. Wall
- Revised T.O. Wall at NE corner Door to 99'-4"
- Added Arch Section 4/A3.1 and 5/A3.1 to 2/S3.1
- Added Note 8 to Precast Framing Notes
- Brought Wall thickness dimension to the Front
- Added 'G.C. to coord. Cagework' note to other locations in 2/S3.1
- Revised T/ Opening at SE Interior Door to 107'-6"
- Delete current sheet S3.1; replace with new Sheet S3.1, issued with this addendum.

#### **40. Sheet S3.2- Bear Holding Roof Framing Plan**

- Revised North Corners and shifted 1' corner extension
- Revised Tunnel Framing
- Revised T.O. Roof and T.O. Wall
- Extended Pavers around RTU
- Revised T.O. Wall callouts on east side of building and added opening in Parapet for Roof Access Stair
- Shifted Parapet Slopes note on South side of Building
- Shifted RTU 1ft
- Delete current sheet S3.2; replace with new Sheet S3.2, issued with this addendum.

#### **41. Sheet S4.1- Bear Viewing Foundation Plans & Framing Plans**

- Revised Wall at Viewing to step back in 1/S4.1 and 5/S4.1
- Revised Embed PI note at HSS column in 1/S4.1 and 5/S4.1 to reference new detail 5/S7.6.
- Added T.O. Curb= See Arch note to 1/S4.1 and 5/S4.1
- Changed Rim Joist to 2x8 in 4/S4.1
- Revised Beams to callout both HSS 5x5x1/4 and (2) 2x10 treated in 7/S4.1
- Delete current sheet S4.1; replace with new Sheet S4.1, issued with this addendum.

#### **42. Sheet S4.2- Bear Viewing & Training Foundation Plans & Framing Plans**

- Moved HSS 5x5x1/4's used for window framing from 1/S4.2 to 2/S4.2
- Added 2x10 Rim Joist in 4 locations
- Changed Steel Tube Joist spacing to 4'-0" O.C.
- Delete current sheet S4.2; replace with new Sheet S4.2, issued with this addendum.

- 43. Sheet S5.1- Seal Holding/ Life Support Foundation Plan, Mezzanine Framing**
- Revised Floor Slab to be Epoxy Coated
  - Added a two Footing steps at Freezer wall and Loading Dock area
  - Added Note 12 to Plan Notes
  - Revised T.O. Wall to 102'-8" in 3 Walls in SW corner
  - Revised T.O. Wall to 109'1 1/2" in 1 Wall in SW corner
  - Revised two seal doors on south side of building to reference Note 12
  - Delete current sheet S5.1; replace with new Sheet S5.1, issued with this addendum.
- 44. Sheet S5.2- Seal Holding/ Life Support Roof Framing Plan**
- Removed 1 Roof Opening and Shifted 2 Roof Openings
  - Revised Section cut to read 4/S8.1
  - Relocated P/C Panels to match Arch Set
  - Shifted Photovoltaic Panels to match Arch Set
  - Removed Parapet Slopes on Plan and revised all T.O. Parapets to reference Arch set
  - Front Canopy framing revised to 2x10's treated at 2'-0" O.C.
  - Added a 2x8 Rim Joist at the Front Canopy
  - Shifted entire plan to the right to avoid being cut off in binding
  - Delete current sheet S5.2; replace with new Sheet S5.2, issued with this addendum.
- 45. Sheet S6.1- Seal Viewing Foundation Plan & Framing Plan**
- Revised 1-3/S6.1 to have 4 column lines instead of 3
  - Delete current sheet S6.1; replace with new Sheet S6.1, issued with this addendum.
- 46. Sheet S7.1 – Foundation Details**
- Detail 17 – Revised ledge dimensions
  - Detail 18 – Added Note for SS and Galv Plates & Angles, Revised Wall thickness to include grill & seal
  - Detail 20 – Added Note for SS and Galv Plates & Angles
  - Delete current sheet S7.1; replace with new Sheet S7.1, issued with this addendum.
- 47. Sheet S7.2 – Foundation Details**
- Detail 2 – Revised pier layout
  - Detail 3 – Revised pier layout
  - Detail 5 – Revised pier layout
  - Detail 15 – Revised pier layout
  - Delete current sheet S7.2; replace with new Sheet S7.2, issued with this addendum.



**48. Sheet S7.3 – Foundation Details**

- Detail 1 – Revised perimeter slab elevation
- Detail 2 – Revised T.O. Wall
- Detail 3 – Revised wall thickness to ‘See Plan’
- Detail 4 – Revised Grade Elevation and removed form liner note
- Detail 6 – Revised Title and Added Water Stop
- Detail 7 – Added Note for SS and Galv Plates & Angles, Added Water Stop
- Detail 11 – Added ‘Galv’ to PC Plank Supplier Connection
- Detail 12 – Revised wall thickness
- Detail 13 – Revised Wall Thickness
- Delete current sheet S7.3; replace with new Sheet S7.3, issued with this addendum.

**49. Sheet S7.5 – Foundation Details**

- Detail 6 – Added Treated Rim Joist
- Detail 20 – Revised to match Arch Section
- Delete current sheet S7.5; replace with new Sheet S7.5, issued with this addendum.

**50. Sheet S7.6- Foundation Details**

- Added Details 5 & 6
- Delete current sheet S7.6; replace with new Sheet S7.6, issued with this addendum.

**51. Sheet S8.1- Precast Framing Details**

- Detail 4 – Removed Expandable Joint Filler note
- Detail 9 – Removed Expandable Joint Filler note
- Detail 12 – Revised Angles to be Galv
- Delete current sheet S8.1; replace with new Sheet S8.1, issued with this addendum.

**52. Sheet S9.1 – Steel Framing Details**

- Detail 14 – Revised edge fascia
- Delete current sheet S9.1; replace with new Sheet S9.1, issued with this addendum.

**53. Sheet S9.2 – Steel Framing Details**

- Detail 5 – Added steel cap plate and note
- Detail 6 – Added steel cap plate and note
- Detail 7 – Removed partition wall support detail and added Steel Beam @ PC Wall Section
- Detail 8 – Remove partition wall support detail
- Delete current sheet S9.2; replace with new Sheet S9.2, issued with this addendum.

**54. Sheet SR1.3 – Bear Pool Wall Plan**

- Added Section Cut for E/A4.2
- Added Section Cut for 4/A4.4
- Removed ‘Contractor to Use Falsework’ note at Pool themework
- Added Dimensions to Pool thickened wall
- Added Section Cuts through Pool stairs
- Delete current sheet SR1.3; replace with new Sheet SR1.3, issued with this addendum.

**55. Sheet SR1.4 – Seal Pool Wall Plan**

- Removed ‘Contractor to Use Falsework’ note at Pool themework
- Added Section Cuts through Pool stairs
- Delete current sheet SR1.4; replace with new Sheet SR1.4, issued with this addendum.

**MECHANICAL**

**56. Sheet M2.1**

- Added keynote 7 for clarification at UH-1 and SG-1
- Revised routing of of main duct
- Delete current sheet M2.1; replace with new Sheet M2.1, issued with this addendum.

**PLUMBING**

**57. Sheet P0.0**

- Changed description of UR-1 and updated acceptable manufacturers
- FD-2 changes from a “2 bottom outlet” to a “4 bottom outlet”
- New floor drain type FD-3 added. FD-3 to be an “Acid resistant, polypropylene body, stainless steel grate, 6” round, 2” bottom outlet, flashing clamp, deep seal trap.” Suggested manufacturers include “Zurn (Z-415), Smith (2005), Wade (1100), Josam (30000), Watts (FD-100), MIFAB (F1100).
- Urinal UR-1 changed from floor mounted to wall mounted, and add notes “elongated rim, extended side shields, ¾” top spud.” Suggested manufacturers & models for urinal UR-1 changed to “American Standard (6590.001), Gerber (27-780), Kohler (K-4960-ET), Sloan (SU-1006), Toto (UT447), Zurn (Z5750).”

**58. Sheet P2.0**

- Rerouted San/Vent pipe where indicated
- Updated FD location where indicated
- Changed TD to FD where indicated
- Delete current sheet P2.0; replace with new Sheet P2.0, issued with this addendum.

**59. Sheet P2.1**

- Rerouted CW piping to WD-1 as indicated
- Two TD-1’s combined into on TD-1 as indicated
- Updated FD location as indicated
- Rerouted vend piping as indicated
- Changed TD-1 to FD-1 as indicated

- Added keynote 6 for FD clarification as indicated
- Added WD-1 as indicated
- Moved location of gas meter as indicated
- Added keynote clarifying FD-1 as indicated Delete current sheet P2.1; replaced with new Sheet P2.1, issued with this addendum.

**60. Sheet P2.2**

- 1 ¼" Gas pipe down to gas meter rerouted to run straight east of MAU, over parapet, & down wall just north of alternating tread stair to gas meter below.

**61. Sheet P3.0**

- Rerouted drain tile as indicated
- Rerouted vent piping as indicated
- Delete current sheet P3.0; replace with new Sheet P3.0; issued with this addendum

**62. Sheet P3.1**

- Rerouted vent piping as indicated
- Change all FD-1's to FD-3's as indicated
- Added keynote 3 for finished floor clarification as indicated
- Updated CW pipe routing as indicated
- Added shutoff valves as indicated
- Delete current sheet P3.1; replace with new Sheet P3.1, issued with this addendum

**63. Sheet P5.2**

- Change FD-1 to FD-3 where indicated
- Delete current sheet P5.2; replace with new Sheet P5.2, issued with this addendum

**FIRE PROTECTION**

**64. Sheet F1.1**

- Reroute FP piping with HS-1 and FDC-1 as indicated
- Delete current sheet F1.1; replace with new Sheet F1.1, issued with this addendum

**ELECTRICAL**

**65. Specification section 28 31 00**

- Add "Fike" as an acceptable manufacturer under section 2.1

**66. Sheet E0.1**

- Luminaire Schedule; revise length of type F9 from 3'-0" to 2'-8"

**67. Sheet ES1.1**

- Change location of fire protection notification device from near column H-3 to near column K-5

**TECHNOLOGY**

**68. Sheet T2.1**

- Revise camera L1-6 and camera L1-7 to wall-mounted

**69. Sheet T6.2**

- Camera L1-6 & L1-7 add note that both camera's to be "installed at 9' AFF, just below duct." Detail reference changed from "2/T6.2" to "3/T6.2."
- "CAMERA TYPE 2" on CCTV CAMERA TYPE SCHEDULE changed from a "ceiling mount" to "wall pendent."

**LSS**

**70. Sheet LSS1.0**

- The life support site piping plan was revised to reflect the piping changes on Sheet LSS2.0.
- Delete current sheet LSS1.0; replace with new Sheet LSS1.0, issued with this addendum.

**71. Sheet LSS2.0**

- The enlarged polar bear pool plan was revised to show separate supply pipe penetrations into the deep and shall sections of the pool.
- The enlarged seal pool plan was revised to show separate supply pipe penetrations into the deep and shall sections of the pool.
- Delete current sheet LSS2.0; replace with new Sheet LSS2.0, issued with this addendum.

**72. Sheet LSS4.0**

- Change the note below the seal holding life support schematic to state the following:  
"The base bid shall include all costs associated with the seal holding system. Deduct Alternate #7 shall remove the seal holding system less its underslab piping."

**73. Sheet LSS4.1**

- Change the note below the seal life support schematic to state the following:  
"The base bid shall include all costs associated with the seal system. Deduct Alternate #7 shall remove the seal system less the rough-in of underground piping 5'-0" inside and outside of the exterior walls of the pump room."

Enclosures:

Bid Form

Sheets: CS1.0, SD1.0, SD1.1, SA1.2, SG1.1, SG1.2, LS1.0, ST2.1, YA1.0, A1.1, A1.4, A1.5, A1.6, A1.7, A1.8, A1.9, A1.10, A3.1, A3.5, A5.1, A5.5, A5.6, S1.1, S1.2, S2.1, S3.1, S3.2, S4.1, S4.2, S5.1, S5.2, S6.1, S7.1, S7.2, S7.3, S7.5, S7.6, S8.1, S9.1, S9.2, SR1.3, SR1.4, P2.0, P2.1, P3.0, P3.1, M2.1, F1.1, LSS1.0, LSS2.0;  
(all 30"x42" sheets - dated 11.25.2013)

Name of Bidding Firm: \_\_\_\_\_

**BID FORM**

**BID NO. 313086**

**PROJECT: CONSTRUCTION OF ARCTIC ANIMAL EXHIBIT AND CONCESSIONS HENRY VILAS ZOO**

**TO: DANE COUNTY DEPARTMENT OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION PROJECT ENGINEER  
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713**

**BASE BID - LUMP SUM:**

Construction of a new bear exhibit, seal exhibit and concessions building covering approximately 1.75 acres. The bear and seal buildings are slab on grade and are constructed of C.I.P. walls, pre-cast insulated walls, and pre-cast hollow core roof panels. The bear building is 2,690 s.f., the seal building is 3,000 s.f. The exhibits include C.I.P. concrete walls and C.I.P. concrete pools (50,000 gallons at seal and 42,000 at bear). Specialty work includes: animal cage work, artificial rock work, and LSS/filtration systems for pools. The concessions building is 4,900 s.f., slab-on-grade, conventional steel frame and pre-cast insulated panels. Construction is to begin by February 1, 2014 and be complete by April 1, 2015.

The undersigned, having examined the site where the Work is to be executed and having become familiar with local conditions affecting the cost of the Work and having carefully examined the Drawings and Specifications, all other Construction Documents and Addenda thereto prepared by Dane County Department of Public Works, Highway & Transportation hereby agrees to provide all labor, materials, equipment and services necessary for the complete and satisfactory execution of the entire Work, as specified in the Construction Documents, for the Base Bid stipulated sum of:

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**LUMP SUM ALLOWANCE FOR:** Signage and Climate Change Interpreting Package  
Include a lump sum allowance in the Base bid of one hundred and thirty-five thousand dollars (\$135,000.00). This allowance will be used for exhibit signs, species identification signs, informational and interpretive signs and interactives to tell the story of climate change in the Arctic, in Madison, and Globally.

**LUMP SUM ALLOWANCE FOR:** Concessions POS System  
Include a lump sum allowance in the Base bid of twenty-five thousand dollars (\$25,000.00). This allowance will be used for all material, equipment and installation of a point-of-sale system at the concessions building.

The undersigned agrees to add the alternate(s) portion of the Work as described, for the following addition(s) to or subtraction(s) from the Base Bid, as stipulated below.

**ALTERNATE BID 1 - LUMP SUM: ADDITIONAL FREEZER AND COOLERS:**

Add price for providing walk in freezer and 2 section reach-in cooler at seal building.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**ALTERNATE BID 2 - LUMP SUM: ADDITIONAL COOLER:**

Add price for providing reach-in cooler at bear building.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**ALTERNATE BID 3 - LUMP SUM: EXHIBIT AREA VIDEO SURVEILLANCE SYSTEM:**

Add price for providing video surveillance system for seal building and bear building and yards.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**ALTERNATE BID 4 - LUMP SUM: CONCESSION VIDEO SURVEILLANCE SYSTEM:**

Add price for video surveillance system for concession building.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**ALTERNATE BID 5 - LUMP SUM: ADDITIONAL FOOD SERVICE EQUIPMENT:**

Add price for popcorn popper, nacho chip warmer, nacho chip accessories and hot dog grill.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**ALTERNATE BID 6 - LUMP SUM: BEAR DEN:**

Add price for construction bear den at corner of concession building.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**ALTERNATE BID 7 - LUMP SUM: SEAL EXHIBIT:**

Deduct price for deleting the following: seal exhibit pool, seal LSS pumps and filters and associated piping work, seal underwater viewing shelter, and finishes in seal holding; all as indicated on drawings.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**DIRECT PURCHASE OF MATERIALS & EQUIPMENT BY COUNTY:**

The amount of materials and equipment that individually exceeds Five Thousand Dollars (\$5,000), to be purchased by the County that is included in the above base price (including tax).

Direct Owner Purchase Value:

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**INFORMATIONAL BID 1: CONCESSIONS BUILDING:**

For book keeping purposes the Owner needs to identify the cost of the concessions building and proportional associated site work and utilities; all of which is included in the base bid.

\_\_\_\_\_ and \_\_\_\_\_ /100 Dollars  
Written Price

\$ \_\_\_\_\_  
Numeric Price

**UNIT PRICE 1: REMOVAL OF SOIL:**

Add price for the removal of unsuitable soil and engineered fill material where soil testing agency has determined existing conditions are insufficient for the purposes of the project (refer to Section 31200 Earthmoving), and placement of new engineered fill.

Unsuitable Soil Removal & Replacement with Engineered Fill:

- 500 cu. Yds or less: @ \$ \_\_\_\_\_ /cu.yd.
- 500 cu.yds or greater: @ \$ \_\_\_\_\_ /cu.yd.

**UNIT PRICE 2: REMOVAL OF BEDROCK:**

Add price for the removal of bedrock as encountered and described in geo-technical report; and placement of new engineered fill.

- 500 cu. Yds or less: @ \$ \_\_\_\_\_/cu.yd.
- 500 cu.yds or greater: @ \$ \_\_\_\_\_/cu.yd.

**UNIT PRICE 3: SAND:**

Add price to provide sand substrate in identified portion of bear yards.

- 25 cu. Yds or less: @ \$ \_\_\_\_\_/cu.yd.
- 25 cu.yds or greater: @ \$ \_\_\_\_\_/cu.yd.

**UNIT PRICE 4: MULCH:**

Add price to provide mulch substrate in identified portion of bear yards.

- 25 cu. Yds or less: @ \$ \_\_\_\_\_/cu.yd.
- 25 cu.yds or greater: @ \$ \_\_\_\_\_/cu.yd.

**UNIT PRICE 5: LIVE ROCK:**

Add price to provide additional live rock as defined by note 11 on SA1.1 & SA1.2.

- Price per ton: @ \$ \_\_\_\_\_/ton

Receipt of the following addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No(s). \_\_\_\_\_ through \_\_\_\_\_

Dated \_\_\_\_\_

Dane County, Department of Public Works / Henry Vilas Zoo must have this project completed by April 15, 2015. Assuming this Work can be started by February 1, 2014, what dates can you commence and complete this job?

Commencement Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_  
(final, not substantial)

I hereby certify that all statements herein are made on behalf of:

\_\_\_\_\_  
(Name of Corporation, Partnership or Person submitting Bid)

Select one of the following:

1. A corporation organized and existing under the laws of the State of \_\_\_\_\_, or



2. A partnership consisting of \_\_\_\_\_, or

3. A person conducting business as \_\_\_\_\_;

Of the City, Village, or Town of \_\_\_\_\_ of the State of \_\_\_\_\_.

I have examined and carefully prepared this Bid from the associated Construction Documents and have checked the same in detail before submitting this Bid; that I have full authority to make such statements and submit this Bid in (its) (their) (my) behalf; and that the said statements are true and correct. In signing this Bid, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a Bid; that this Bid has been independently arrived at without collusion with any other bidder, competitor, or potential competitor; that this Bid has not been knowingly disclosed prior to the Bids Due Date to another bidder or competitor; that the above statement is accurate under penalty of perjury.

The undersigned further agrees to honor the Base Bid and the Alternate Bid(s) for 60 days from date of Award of Contract.

**SIGNATURE:** \_\_\_\_\_  
(Bid is invalid without signature)

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

Email Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

**THIS PAGE IS FOR BIDDERS' REFERENCE AND NEED NOT BE SUBMITTED WITH BID FORM.**

**BID CHECK LIST:**

These items **must** be included with Bid:

Bid Form

Bid Bond

Fair Labor Practices Certification

**BIDDERS SHOULD BE AWARE OF THE FOLLOWING:**

**DANE COUNTY VENDOR REGISTRATION PROGRAM**

Any person bidding on any County contract must be registered with the Dane County Purchasing Division & pay an annual registration fee. A contract will not be awarded to an unregistered vendor. Obtain a *Vendor Registration Form* by calling 608/266-4131 or complete a new form or renewal online at:

[www.danepurchasing.com/registration](http://www.danepurchasing.com/registration)

**DANE COUNTY BEST VALUE CONTRACTING PRE-QUALIFICATION**

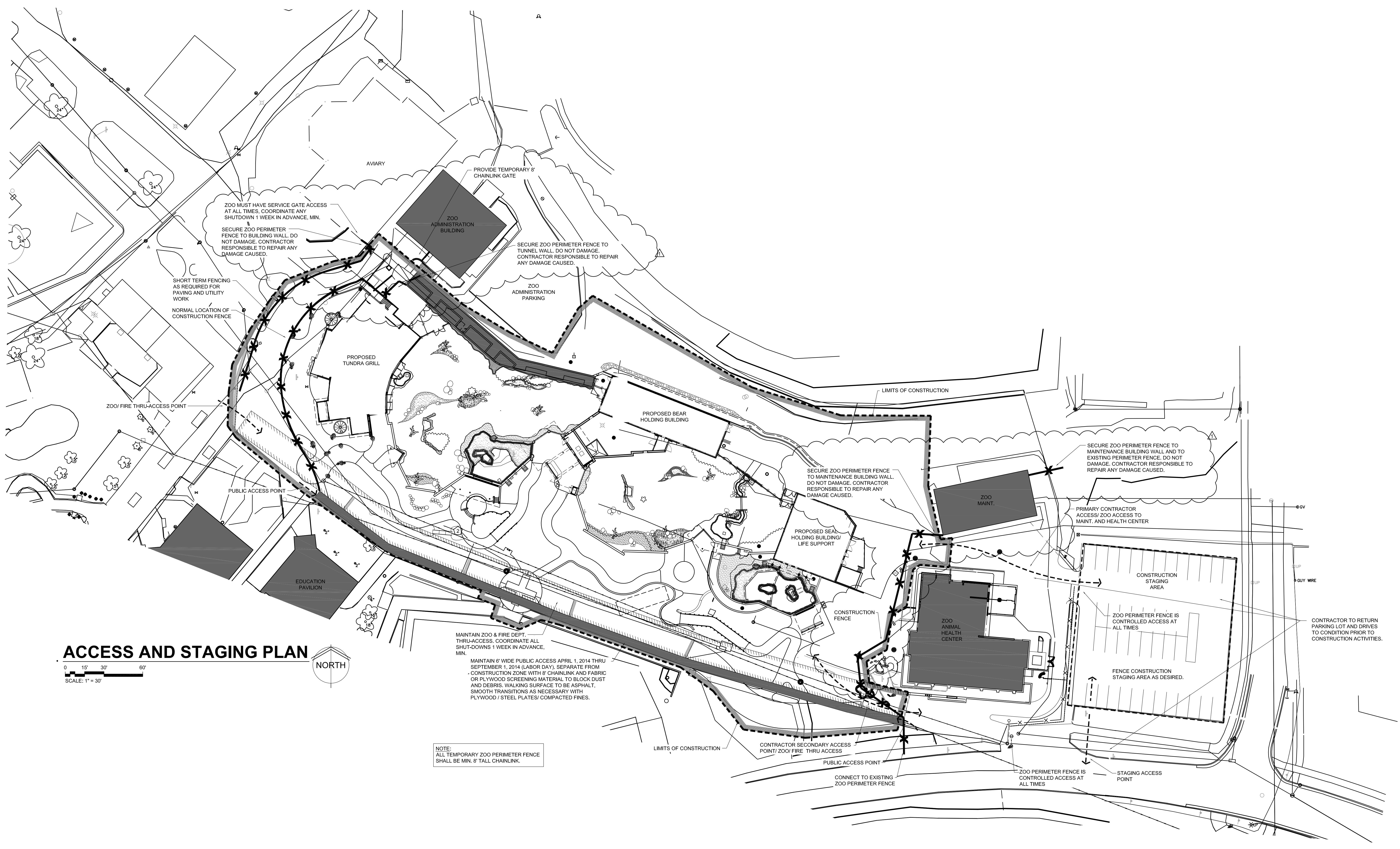
Contractors must be pre-qualified as a Best Value Contractor with the Dane County Public Works Engineering Division before the award of contract. Obtain a *Best Value Contracting Application* by calling 608/266-4018 or complete one online at:

[www.countyofdane.com/pwht/BVC\\_Application.aspx](http://www.countyofdane.com/pwht/BVC_Application.aspx)

**EQUAL BENEFITS REQUIREMENT**

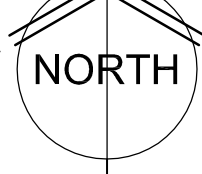
By submitting a Bid, the contractor acknowledges that a condition of this contract is to provide equal benefits as required by Dane County Code of Ordinances Chapter 25.016. Contractor shall provide equal benefits as required by that Ordinance to all required employees during the term of the contract. Equal Benefits Compliance Payment Certification shall be submitted with final pay request. For more information:

[www.danepurchasing.com/partner\\_benefit.aspx](http://www.danepurchasing.com/partner_benefit.aspx)



**ACCESS AND STAGING PLAN**

SCALE: 1" = 30'



NOTE:  
ALL TEMPORARY ZOO PERIMETER FENCE SHALL BE MIN. 8' TALL CHAINLINK.

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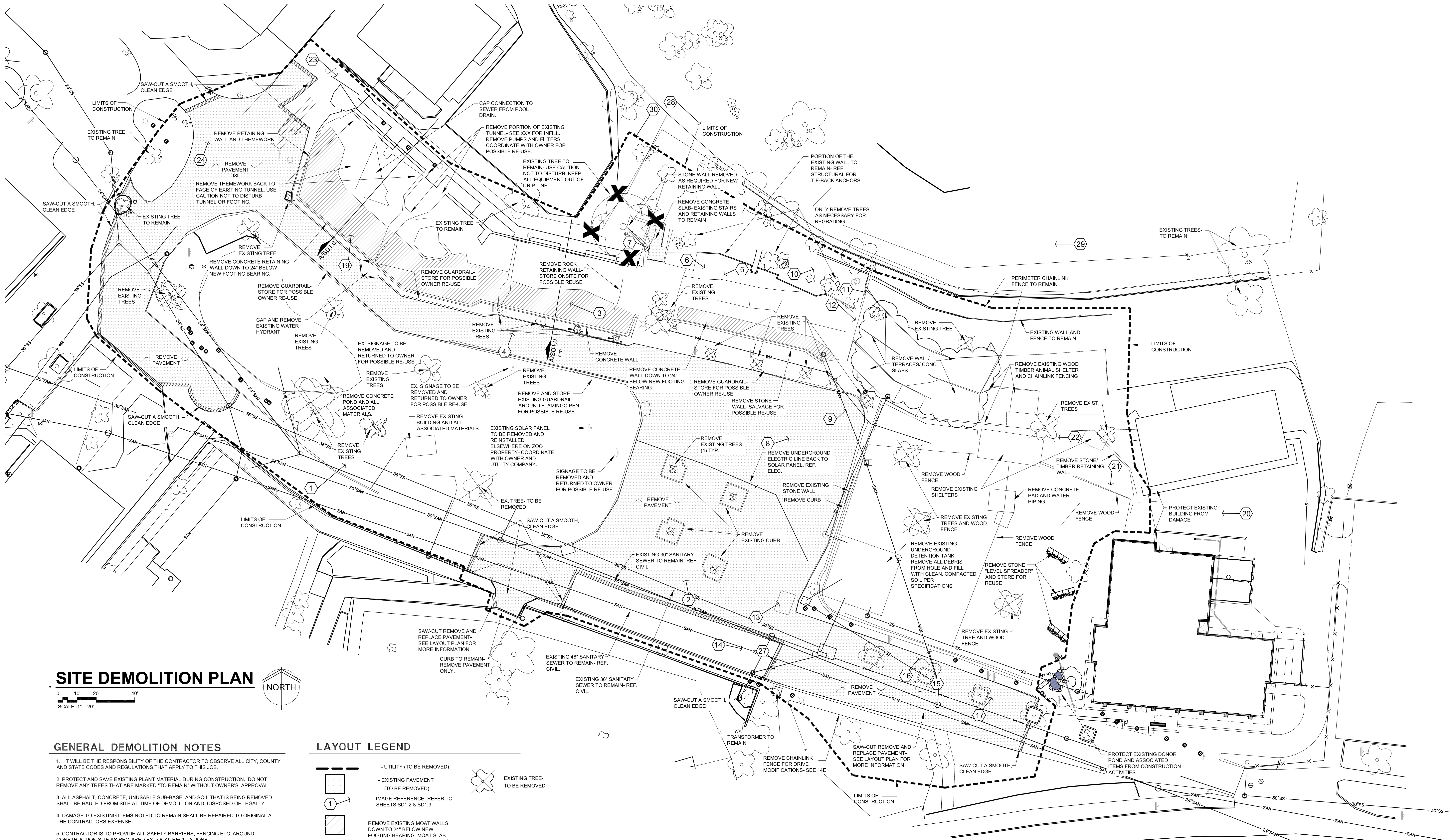
**we do more**  
**henry vilas**  
**700**

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
RFB No. 313086  
Henry Vilas Zoo - County of Dane  
Henry Vilas Zoo  
702 S Randall Ave  
Madison, Wisconsin  
Department of Public Works  
1919 Alliant Energy Center Way  
Madison, Wisconsin

PRINTS ISSUED  
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08.23.2013 - Design Development  
09.23.2013 - 65% CD's  
10.07.2013 - Pricing Set  
10.21.2013 - 95% CD's  
11.13.2013 - Bid Documents  
11.25.2013 - Addendum #3

WDM No. drawn: NS  
**13046** checked: SR  
ACCESS AND STAGING PLAN

**CS1.0**



### SITE DEMOLITION PLAN



#### GENERAL DEMOLITION NOTES

- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBSERVE ALL CITY, COUNTY AND STATE CODES AND REGULATIONS THAT APPLY TO THIS JOB.
- PROTECT AND SAVE EXISTING PLANT MATERIAL DURING CONSTRUCTION. DO NOT REMOVE ANY TREES THAT ARE MARKED "TO REMAIN" WITHOUT OWNER'S APPROVAL.
- ALL ASPHALT, CONCRETE, UNUSABLE SUB-BASE, AND SOIL THAT IS BEING REMOVED SHALL BE HAULED FROM SITE AT TIME OF DEMOLITION AND DISPOSED OF LEGALLY.
- DAMAGE TO EXISTING ITEMS NOTED TO REMAIN SHALL BE REPAIRED TO ORIGINAL AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR IS TO PROVIDE ALL SAFETY BARRIERS, FENCING ETC. AROUND CONSTRUCTION SITE AS REQUIRED BY LOCAL REGULATIONS.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DRAWN FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN BY CONTACTING THE UTILITY LOCATOR SERVICES A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF DIGGING OPERATIONS.
- EXISTING CONDITIONS SHALL BE VERIFIED BY DEMOLITION CONTRACTOR PRIOR TO COMMENCING WORK. DISCREPANCIES ARE TO BE REPORTED TO PROJECT MANAGER AND/OR ARCHITECT IMMEDIATELY.
- THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION, ADJACENT (OFF-SITE) PROPERTY AND PROPERTY OUTSIDE THE LIMITS OF WORK, DISTURBED BY HIS OPERATIONS.
- ALL Voids AND HOLES TO BE FILLED SHALL BE FILLED AND COMPACTED WITH CLEAN DIRT PER SOILS REPORT. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AND SHALL NOT BE USED AS FILL.
- SEE CIVIL PLAN FOR UTILITY REMOVALS.

#### LAYOUT LEGEND

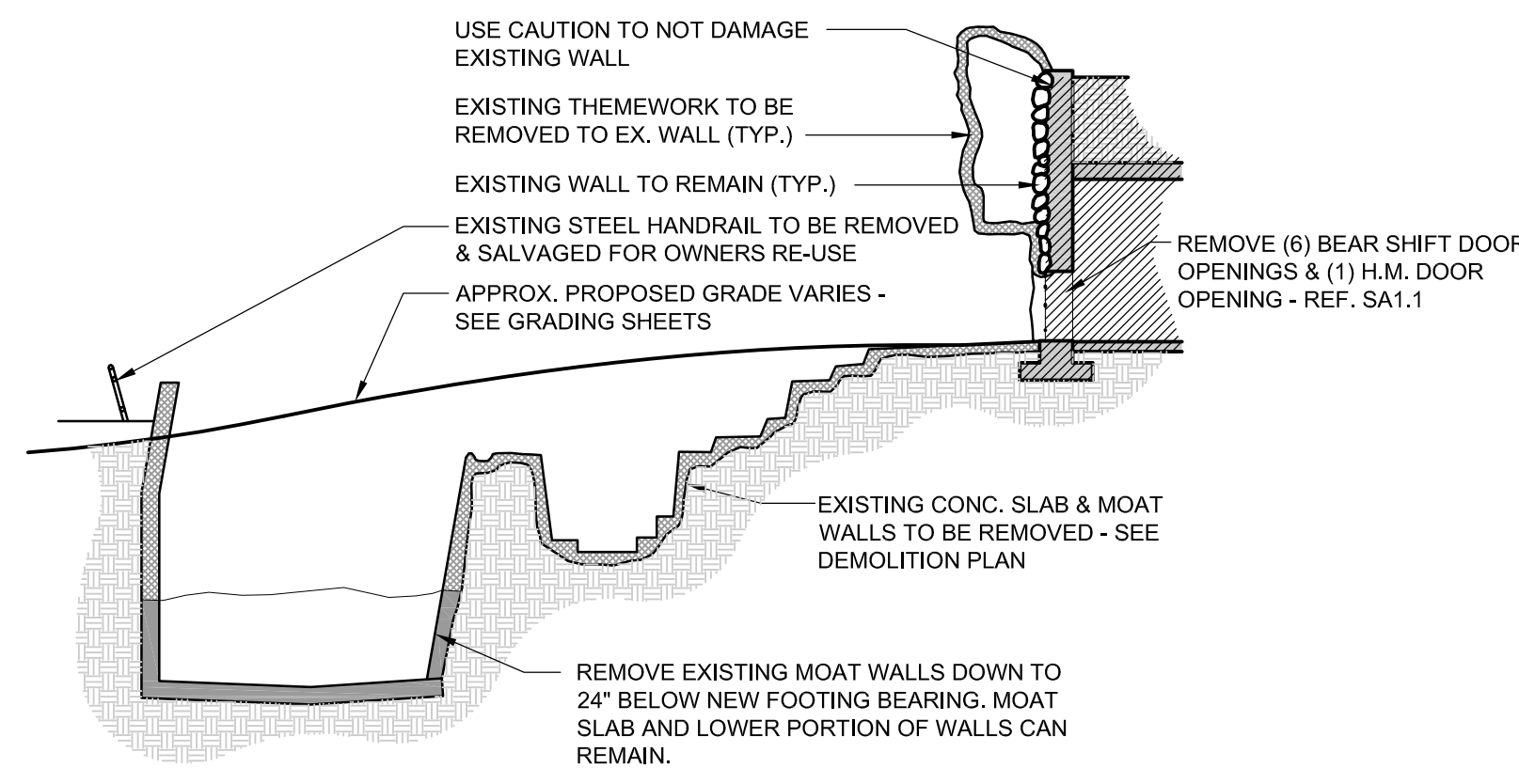
- UTILITY (TO BE REMOVED)
- EXISTING PAVEMENT (TO BE REMOVED)
- IMAGE REFERENCE- REFER TO SHEETS SD1.2 & SD1.3
- REMOVE EXISTING MOAT WALLS DOWN TO 24" BELOW NEW FOOTING BEARING. MOAT SLAB AND LOWER PORTION OF WALLS CAN REMAIN.
- EXISTING TREE- TO BE REMOVED

#### SITE SURVEY INFORMATION

MSA PROFESSIONAL SERVICES  
 2901 INTERNATIONAL LANE  
 MADISON, WI 53704  
 608-242-7779

DRAWING LABELED: EXISTING TOPOGRAPHY- ARCTIC PASSAGE DANE COUNTY HENRY VILAS ZOO

DATE: 11-07-13  
 JOB NO: 06441000



**A SECTION THRU EXISTING POLAR BEAR EXHIBIT**  
 NTS

**wdm**  
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 Wichita, KS 67202-2815  
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 wdmarchitects.com

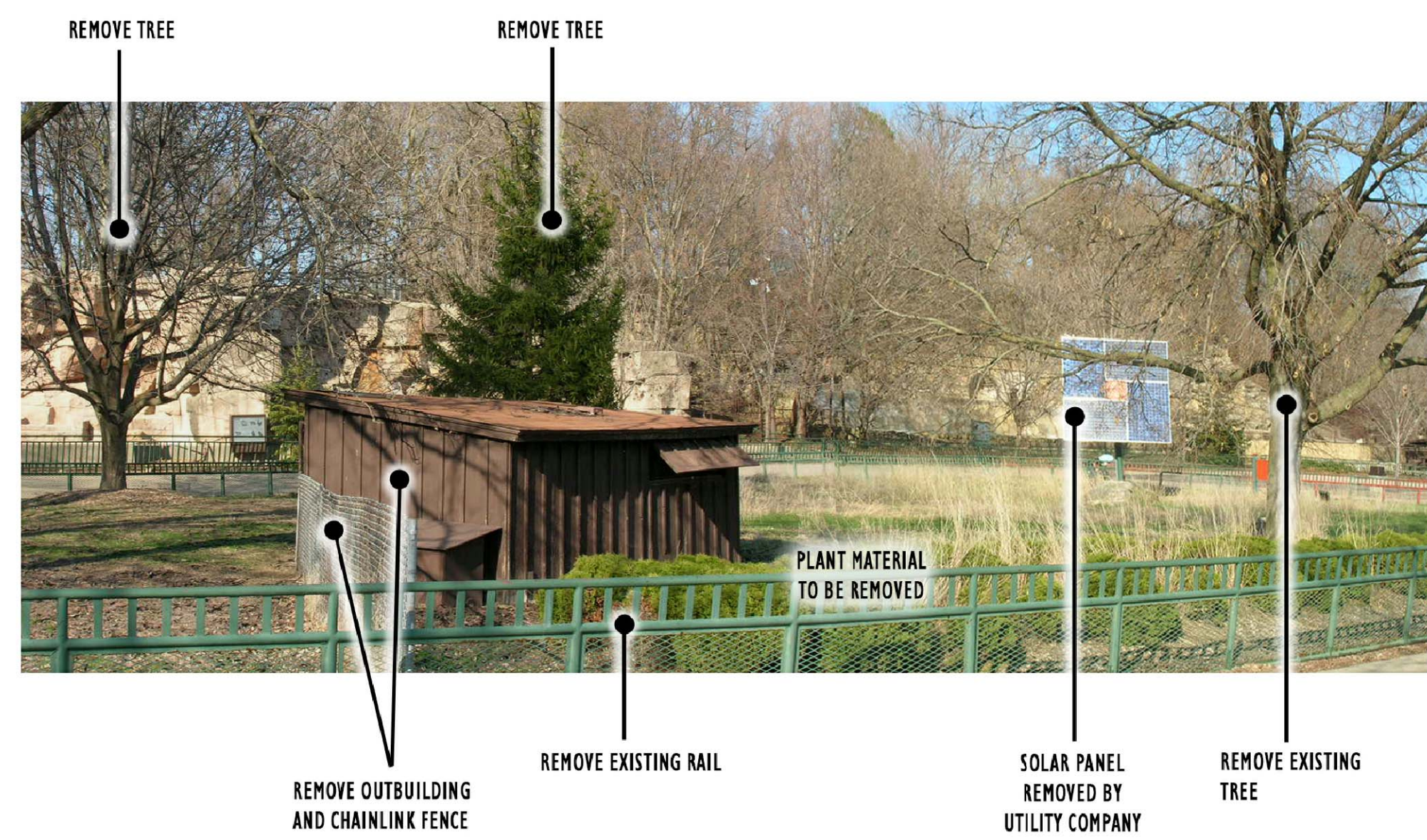
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**ZOO**

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
 RFB No. 313086  
 Henry Vilas Zoo - County of Dane  
 Department of Public Works  
 1919 Alliant Energy Center Way  
 Madison, Wisconsin

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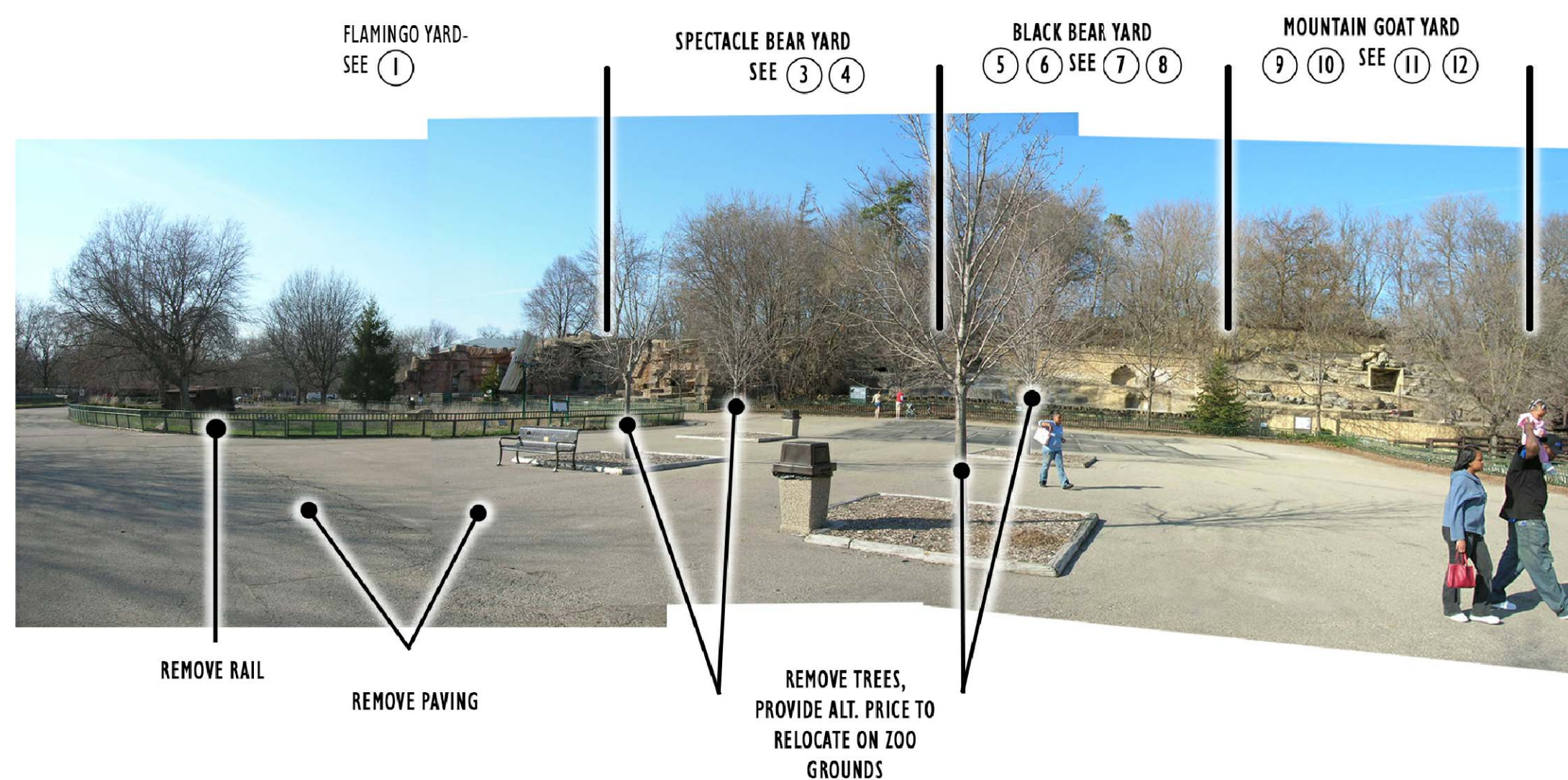
WDM No. drawn: NS  
**13046** checked: SR  
 SITE DEMOLITION PLAN

**SD1.0**



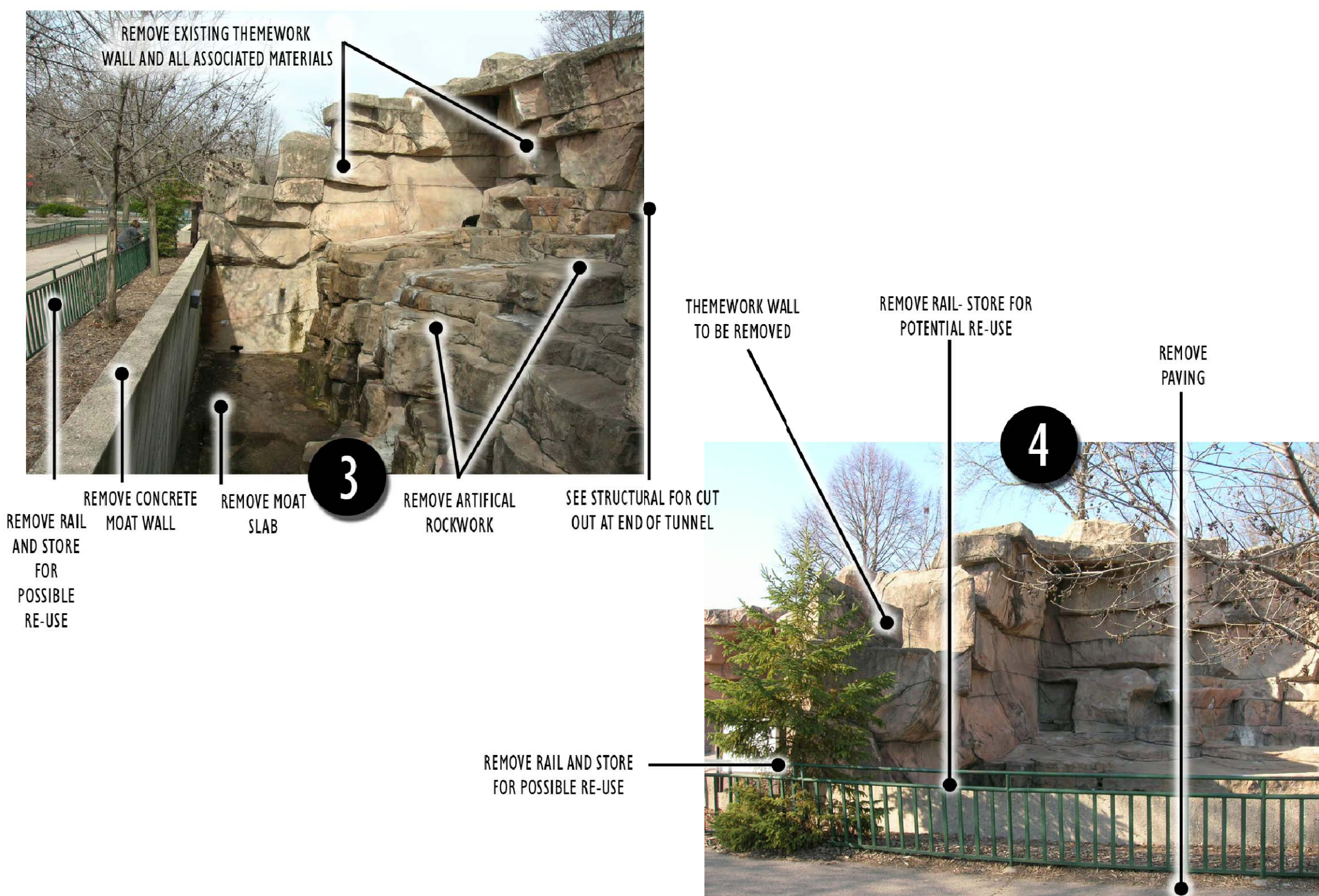
Flamingo Yard

1

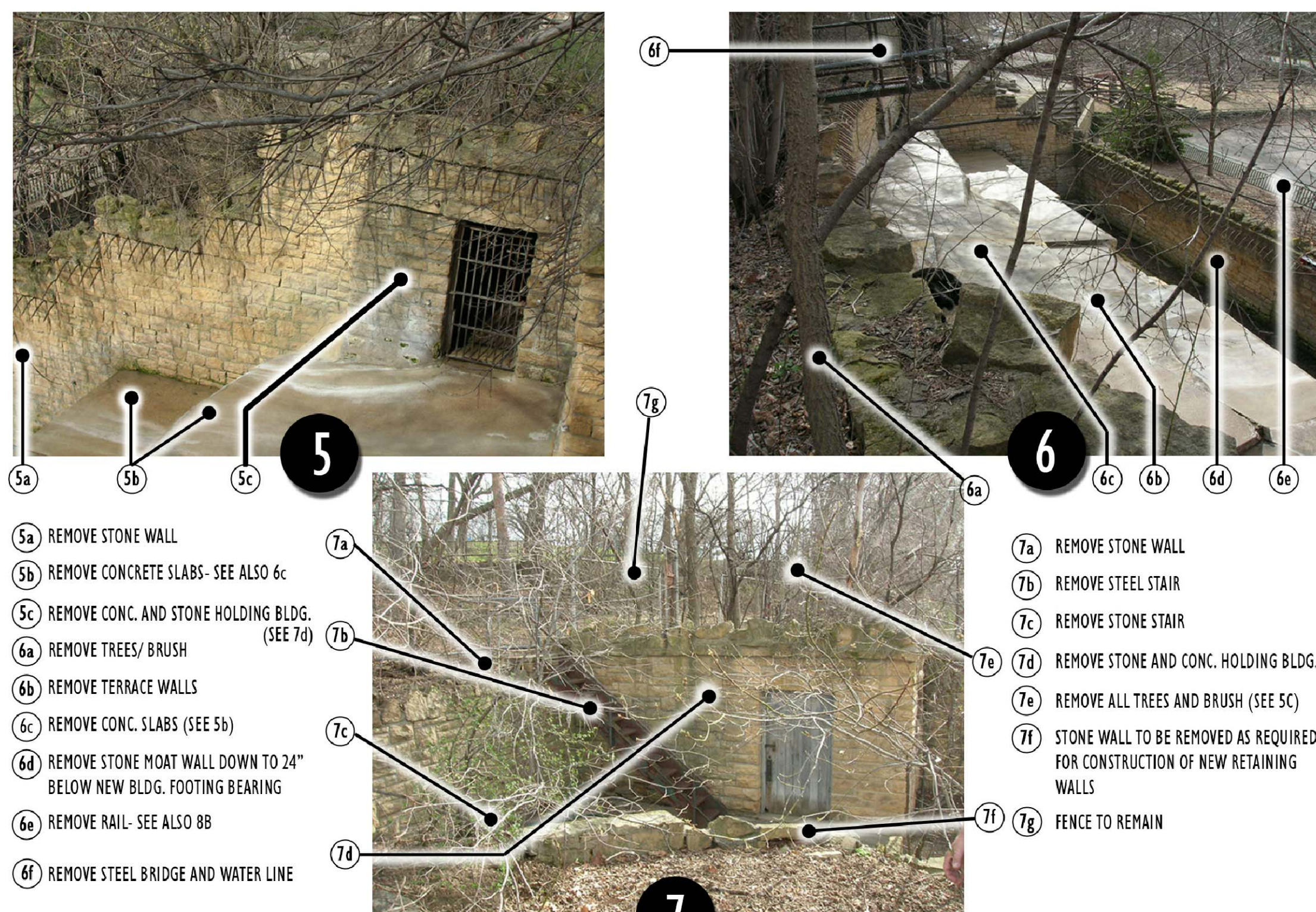


Plaza

2

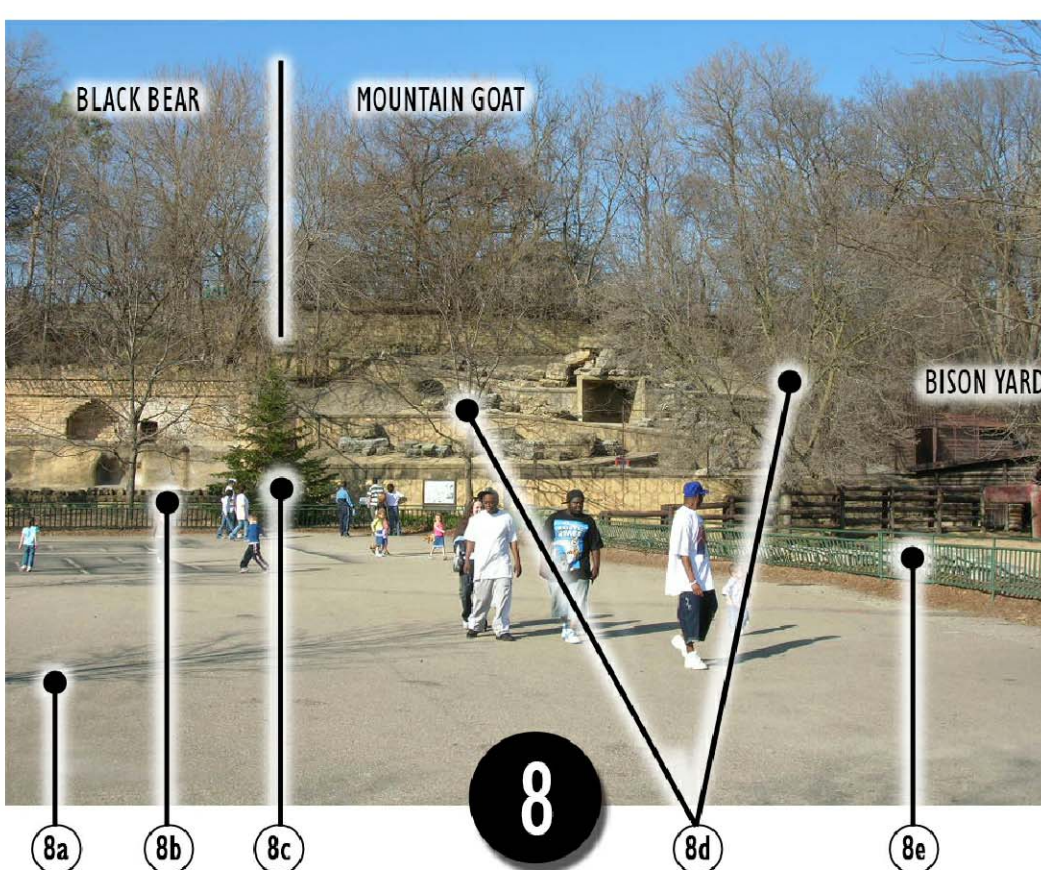


Spectacle Bear Yard



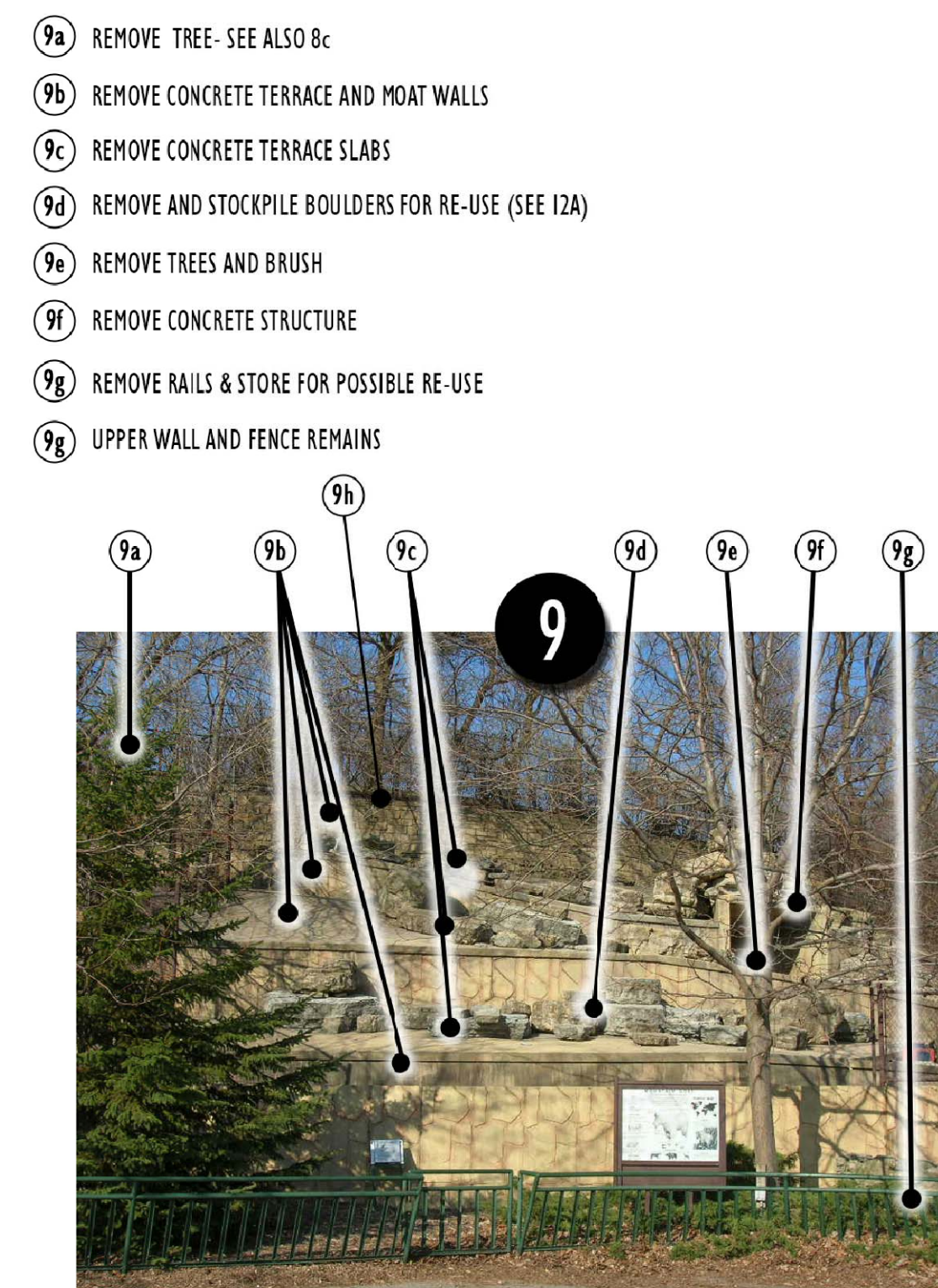
Black Bear Yard

7



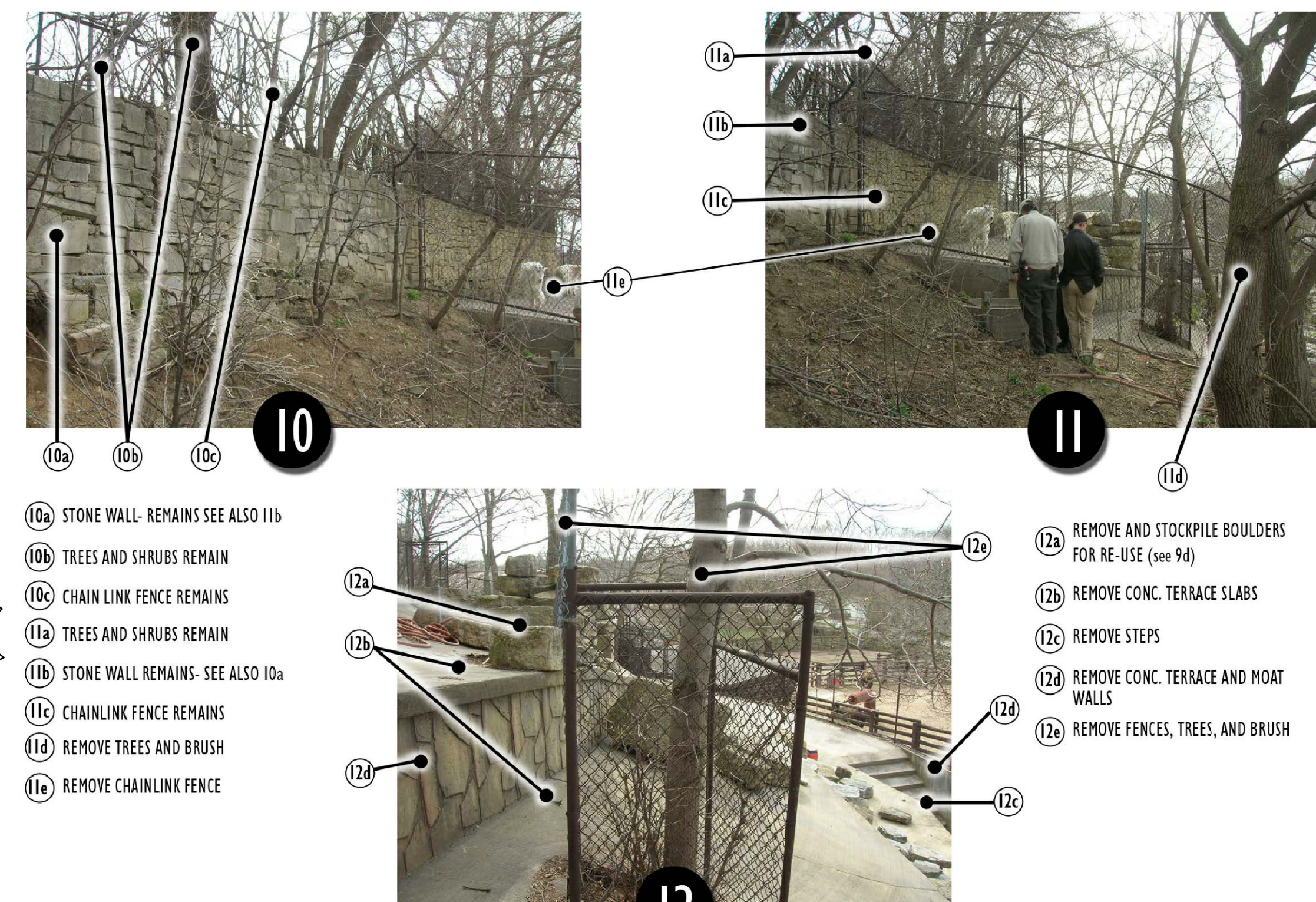
Plaza at Mountain Goat Yard

8



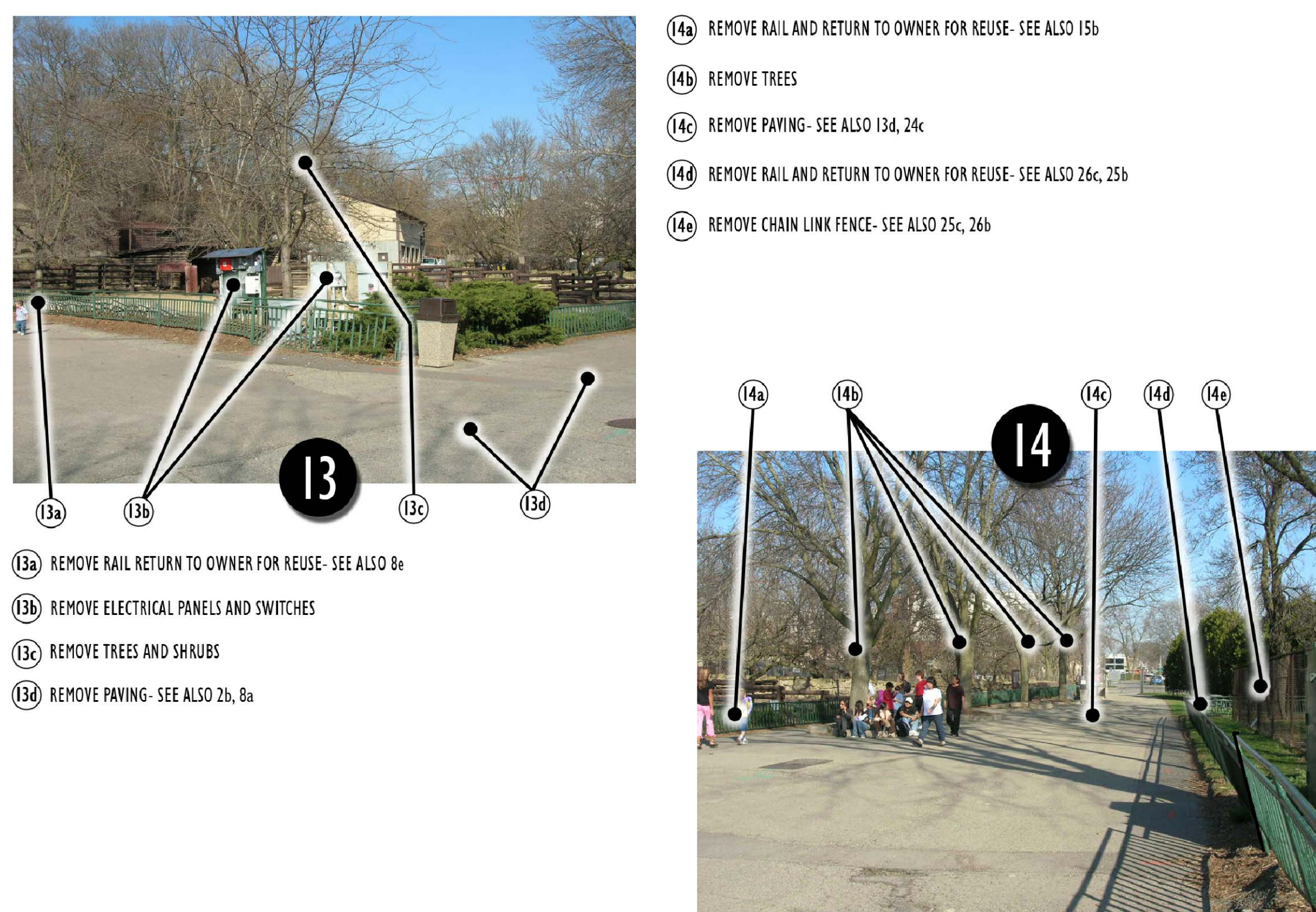
Mountain Goat Yard

10



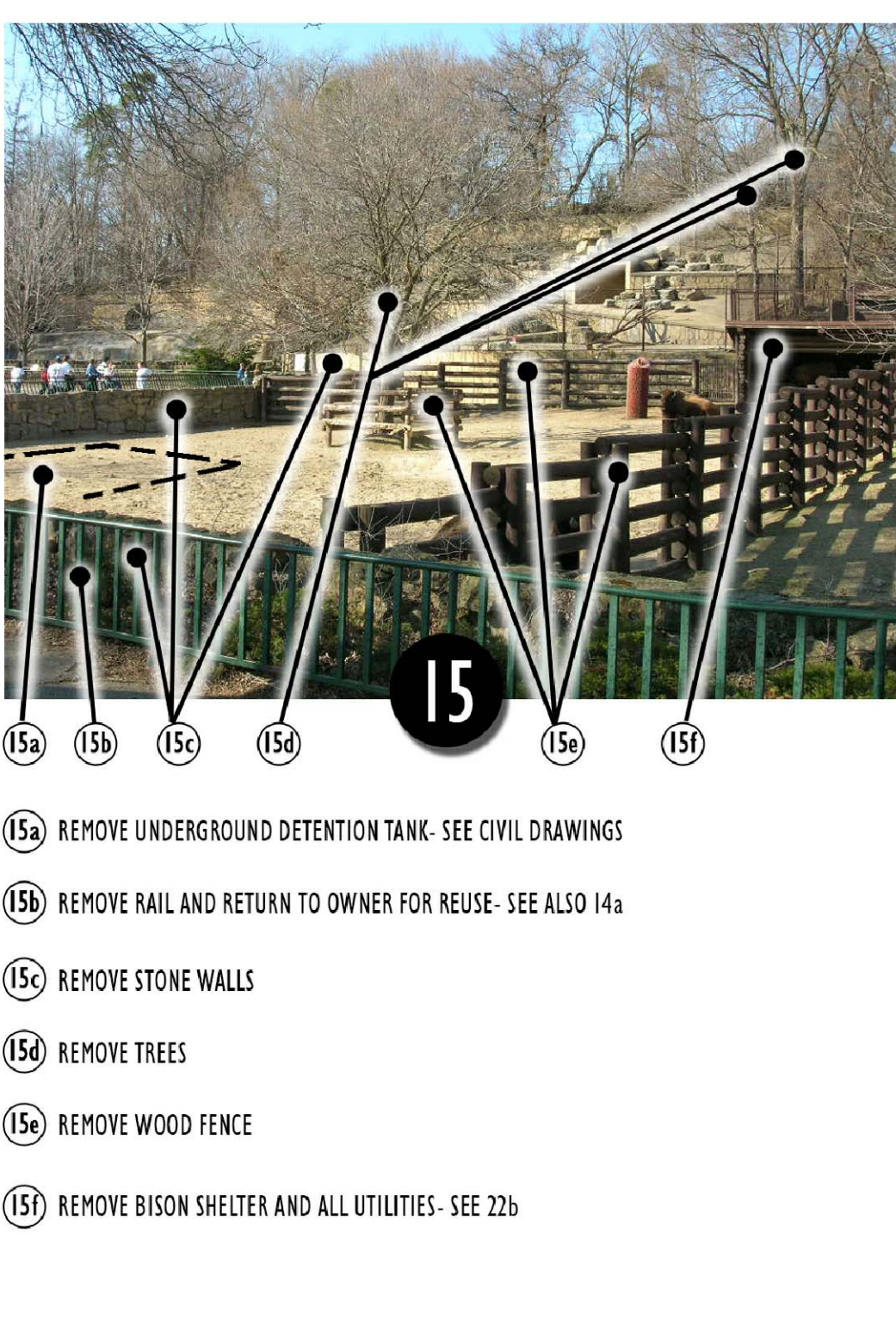
Mountain Goat Yard

12



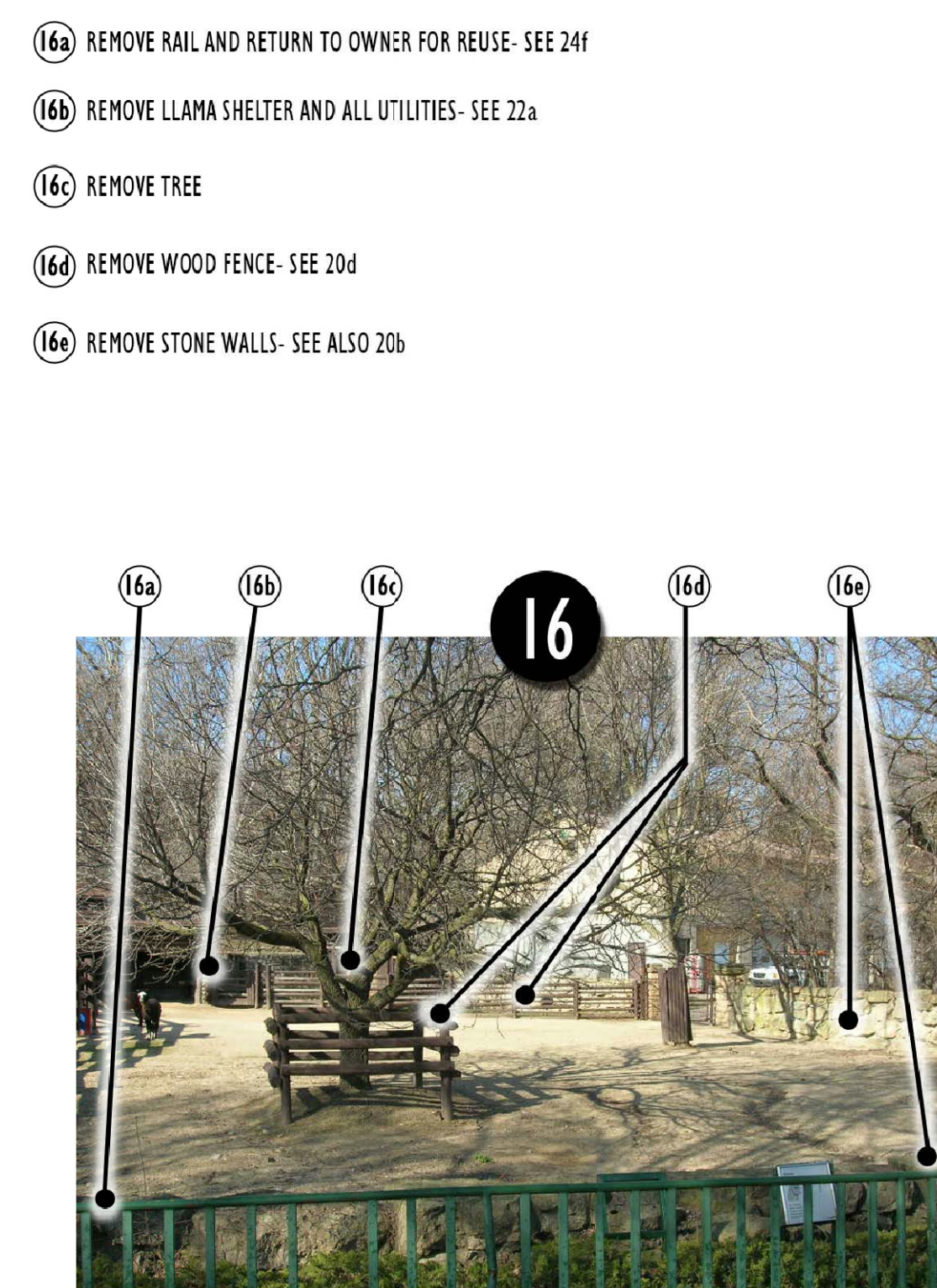
East Plaza Edge and Asphalt Drive

13



Bison Yard

15



Llama Yard

16



Rain Garden at Animal Health Center

18

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wdmarchitects.com

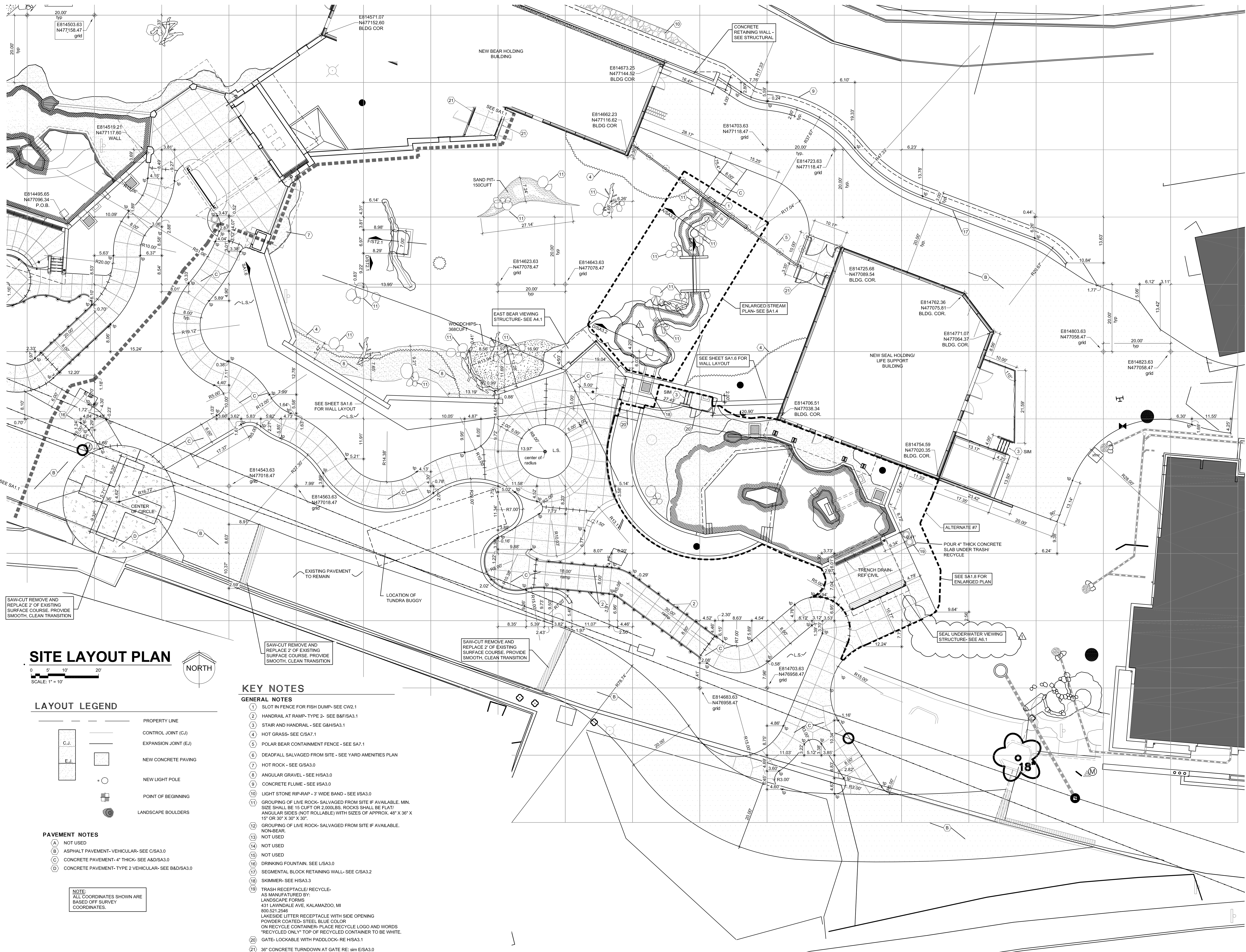
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WDM No. 13046  
drawn: NS  
checked: SR  
SITE DEMOLITION PLAN

SD1.1



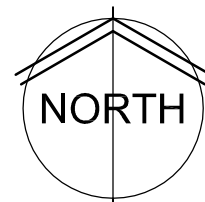
SAW-CUT REMOVE AND REPLACE 2" OF EXISTING SURFACE COURSE. PROVIDE SMOOTH, CLEAN TRANSITION

SAW-CUT REMOVE AND REPLACE 2" OF EXISTING SURFACE COURSE. PROVIDE SMOOTH, CLEAN TRANSITION

SAW-CUT REMOVE AND REPLACE 2" OF EXISTING SURFACE COURSE. PROVIDE SMOOTH, CLEAN TRANSITION

### SITE LAYOUT PLAN

SCALE: 1" = 10'



### LAYOUT LEGEND

	PROPERTY LINE
	CONTROL JOINT (CJ)
	EXPANSION JOINT (EJ)
	NEW CONCRETE PAVING
	NEW LIGHT POLE
	POINT OF BEGINNING
	LANDSCAPE BOULDERS

### PAVEMENT NOTES

- (A) NOT USED
- (B) ASPHALT PAVEMENT-VEHICULAR-SEE C/SA3.0
- (C) CONCRETE PAVEMENT-4" THICK-SEE A&D/SA3.0
- (D) CONCRETE PAVEMENT-TYPE 2 VEHICULAR-SEE B&D/SA3.0

NOTE:  
ALL COORDINATES SHOWN ARE  
BASED ON SURVEY  
COORDINATES.

### KEY NOTES

#### GENERAL NOTES

- (1) SLOT IN FENCE FOR FISH DUMP- SEE CW2.1
- (2) HANDRAIL AT RAMP-TYPE 2- SEE B&F/SA3.1
- (3) STAIR AND HANDRAIL - SEE G&H/SA3.1
- (4) HOT GRASS- SEE C/SA7.1
- (5) POLAR BEAR CONTAINMENT FENCE - SEE SA7.1
- (6) DEADFALL SALVAGED FROM SITE - SEE YARD AMENITIES PLAN
- (7) HOT ROCK - SEE G/SA3.0
- (8) ANGULAR GRAVEL - SEE H/SA3.0
- (9) CONCRETE FLUME - SEE I/SA3.0
- (10) LIGHT STONE RIP-RAP - 3' WIDE BAND - SEE I/SA3.0
- (11) GROUPING OF LIVE ROCK- SALVAGED FROM SITE IF AVAILABLE. MIN. SIZE SHALL BE 15 CUFT OR 2,000LBS. ROCKS SHALL BE FLAT/ ANGULAR SIDES (NOT ROLLABLE) WITH SIZES OF APPROX. 48" X 36" X 15" OR 30" X 30" X 30".
- (12) GROUPING OF LIVE ROCK- SALVAGED FROM SITE IF AVAILABLE. NON-BEAR.
- (13) NOT USED
- (14) NOT USED
- (15) NOT USED
- (16) DRINKING FOUNTAIN. SEE I/SA3.0
- (17) SEGMENTAL BLOCK RETAINING WALL - SEE C/SA3.2
- (18) SKIMMER- SEE H/SA3.3
- (19) TRASH RECEPTACLE/ RECYCLE- AS MANUFACTURED BY: LANDSCAPE FORMS 431 LAWNDALE AVE. KALAMAZOO, MI 890.521.2546 LAKESIDE LITTER RECEPTACLE WITH SIDE OPENING POWDER COATED- STEEL BLUE COLOR ON RECYCLE CONTAINER- PLACE RECYCLE LOGO AND WORDS "RECYCLED ONLY" TOP OF RECYCLED CONTAINER TO BE WHITE.
- (20) GATE- LOCKABLE WITH PADDLOCK-RE H/SA3.1
- (21) 36" CONCRETE TURNDOWN AT GATE RE: slm E/SA3.0



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**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
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Henry Vilas Zoo - County of Dane  
Department of Public Works  
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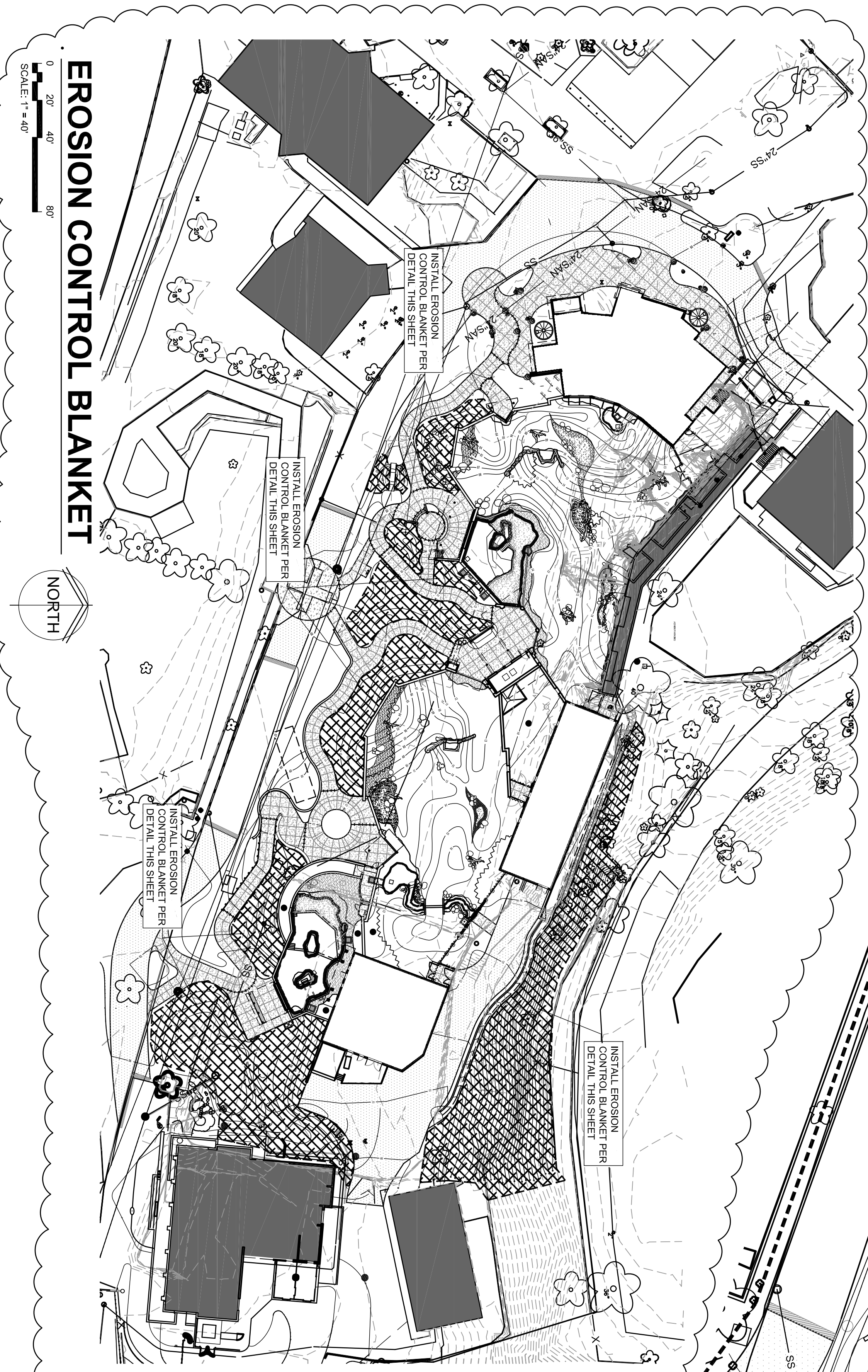
WDM No. 13046 drawn: NS  
checked: SR  
SITE LAYOUT PLAN

**SA1.2**



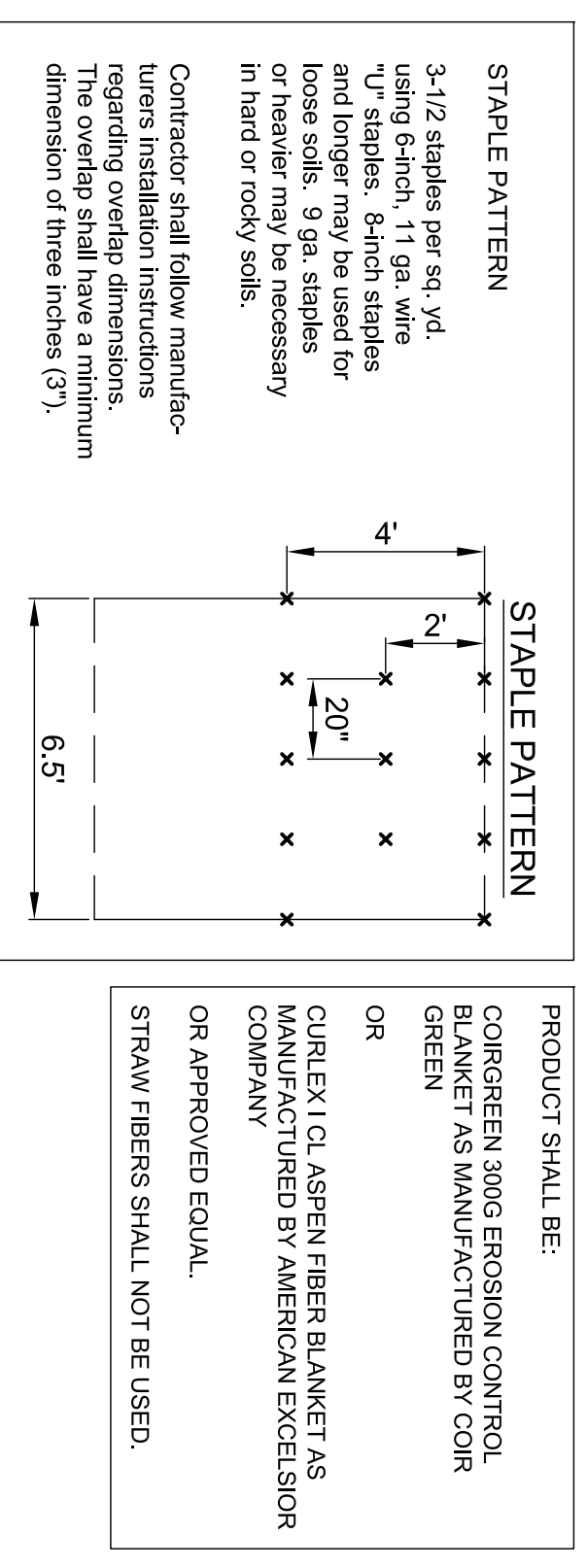
**OVERALL SITE GRADING PLAN**

SCALE: 1" = 20'  
NORTH



**EROSION CONTROL BLANKET**

SCALE: 1" = 40'  
NORTH



**EROSION CONTROL BLANKET**  
NO SCALE

**STAPLE PATTERN**  
3-1/2 staples per sq. yd. using 3-inch, 11 ga. wire and paper may be used for loose soils. 9 ga. staples or heavier may be necessary in soils of rocky soils.  
Contractor shall follow manufacturer's installation instructions. The overlap shall have a minimum dimension of three inches (3").

**STAPLE PATTERN**  
4" x 20"  
6.5'

PRODUCT SHALL BE:  
CONCRETE XING EROSION CONTROL GREEN  
OR  
CURLEX (C) ASPEN FIBER BLANKET AS OR APPROVED EQUAL.  
STRAW FIBERS SHALL NOT BE USED.

- NOTES:**
1. PROTECT ALL EXISTING UTILITIES TO REMAIN.
  2. CONTRACTOR TO VERIFY LOCATION OF UTILITIES AND STOOPLER COORDINATE LOCATIONS WITH ARCHITECT.
  3. PROPOSED CONTOUR LINES ARE FINISH FINISH-DIRT GRADE.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE TO NECESSARY RESTORE TO GRADE. ANY CUTS, WASHES OR OTHER CHANGES FROM THE DESIGN WORK IS ACCEPTED BY THE OWNER AND ARCHITECT.
  5. ALL GRADING SHALL BE DONE TO INSURE POSITIVE DRAINAGE. ANY DISCREPANCY EXISTS ON PLAN IMMEDIATELY NOTIFY ARCHITECT.
  6. ALL GRADING SHALL BE GRACED TO SLOPES NO GREATER THAN 1:50 (2%) IN THE DIRECTION OF TRAVEL. CROSS SLOPES SHALL BE 1:50 (2%).
  7. ALL WEEDS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT, ORGANIC MATERIAL, EXCLUDING TOP SOIL, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PRIOR TO CONSTRUCTION.
  8. ALL OVERBURDEN SHALL BE REMOVED AND INCAPABLE OF SUPPORTING BUILDING, VEHICULAR AND OTHER LOADS TO BE CLEARED.
  9. THIS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PRIOR TO CONSTRUCTION.
  10. TOPOGRAPHIC SURVEY BY MSA PROFESSIONAL SERVICES, VERONA TOWN LINE MADISON, WI 53704 1-800-446-0679
  11. TOP OF FINISH DESIGNATION REFERS TO TOP OF CONCRETE WALL ONLY.
  12. BOLT GRATES TO ALL SVS CATCH BASINS. SEE 13.
  13. ALL GRADERS SHALL MEET ADA REQUIREMENTS.

**LEGEND**

TF	TOP OF FENCE
TW	TOP OF WALL
TR	TOP OF ROCK AND/OR TOP OF RESTRICTION
TP	TOP OF PAVEMENT (MOAT)
MT	EDGE TO BE MAINTAINED
E	EDGE TO BE MAINTAINED
EPP	EDGE OF PAVEMENT
BP	BOTTOM OF POOL
LP	LOW POINT
HP	HIGH POINT
GR	GRADE
FL	FLOW LINE
DB	DRAIN BASIN
FRE	FINISH FLOOR ELEVATION
WS	WATER SURFACE
WC	WATER COURSE
TC	TOP OF COLLUM
TT	TOP OF TANK
EX	EXISTING
TX	EXISTING
TOP	TOP-OF-INLET
□	DRAIN BASIN SYMBOL - Underground Drain (Pipe)
—	NEW SPOT ELEVATION
—	PROPOSED CONTOUR
—	EXISTING CONTOUR
—	DRAINAGE SWALE
—	THIRED ROCKS
—	LIVE ROCKS
—	LANDSCAPE BOULDERS
—	SIDEWALKS

- RETAINING WALL RULES:**
1. UNLESS NOTED OTHERWISE, CONCRETE RETAINING WALLS SHALL BE FINISHED TO LOWER SPOT ELEVATION, STEPPING UP AT LOCATION OF HIGHER ELEVATION.
  2. AN ARROW ON TOP OF A RETAINING WALL INDICATES SLOPING TOP FROM ONE ELEVATION TO NEXT.
  3. LINE ACROSS RETAINING WALL INDICATES LOCATION OF STEP IN WALL.

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
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202 S Randall Ave  
Madison, Wisconsin

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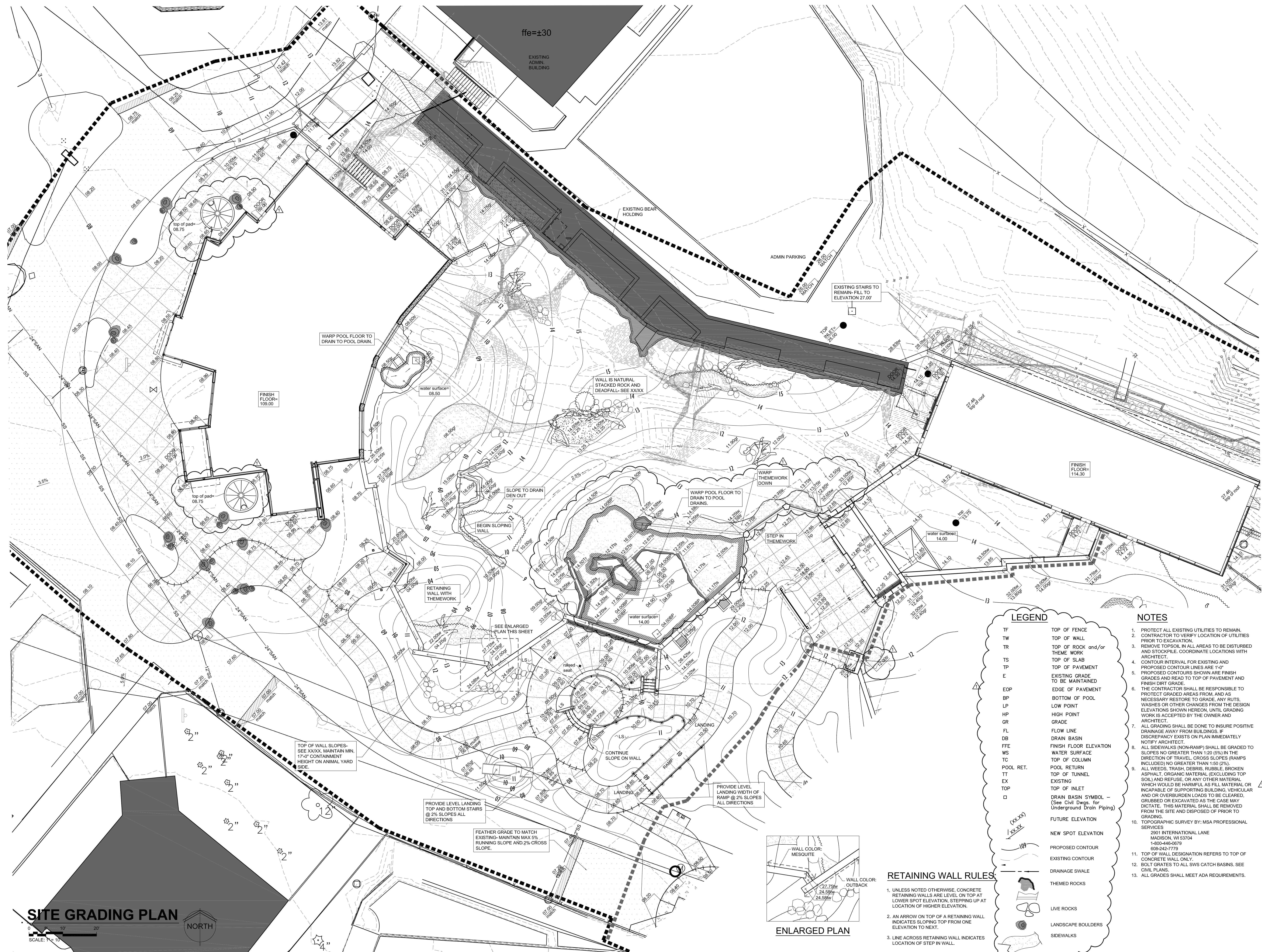
**wvdm ARCHITECTS**  
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wvdmarchitects.com

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WDM No. 13046  
drawn: NS  
checked: SR  
SITE GRADING PLAN

**SG1.0**

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we do more  
**henry vilas zoo**

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11.13.2013 - Bid Documents  
11.25.2013 - Addendum #3

WDM No. drawn: NS  
**13046** checked: SR

SITE GRADING PLAN

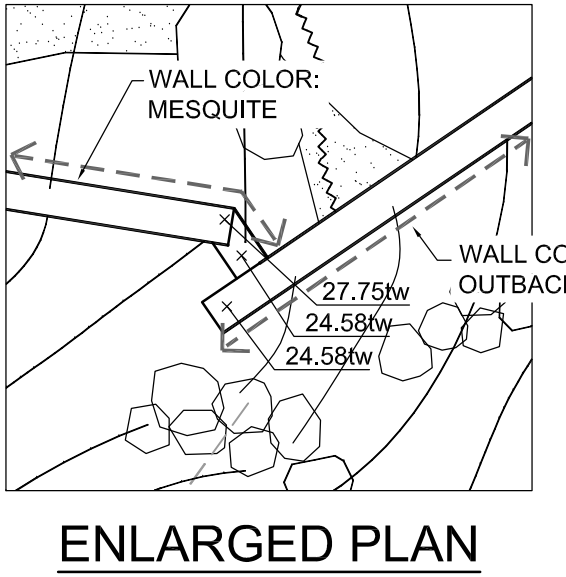
**SG1.1**

LEGEND	
TF	TOP OF FENCE
TW	TOP OF WALL
TR	TOP OF ROCK and/or THEME WORK
TS	TOP OF SLAB
TP	TOP OF PAVEMENT
E	EXISTING GRADE TO BE MAINTAINED
EP	EDGE OF PAVEMENT
BP	BOTTOM OF POOL
LP	LOW POINT
HP	HIGH POINT
GR	GRADE
FL	FLOW LINE
DB	DRAIN BASIN
FFE	FINISH FLOOR ELEVATION
WS	WATER SURFACE
TC	TOP OF COLUMN
POOL RET.	POOL RETURN
TT	TOP OF TUNNEL
EX	EXISTING
TOP	TOP OF INLET
□	DRAIN BASIN SYMBOL - (See Civil Dwg. for Underground Drain Piping)
(XX.XX)	FUTURE ELEVATION
(XX.XX)	NEW SPOT ELEVATION
(---)	PROPOSED CONTOUR
(---)	EXISTING CONTOUR
(---)	DRAINAGE SWALE
(---)	THEMED ROCKS
(---)	LIVE ROCKS
(---)	LANDSCAPE BOULDERS
(---)	SIDEWALKS

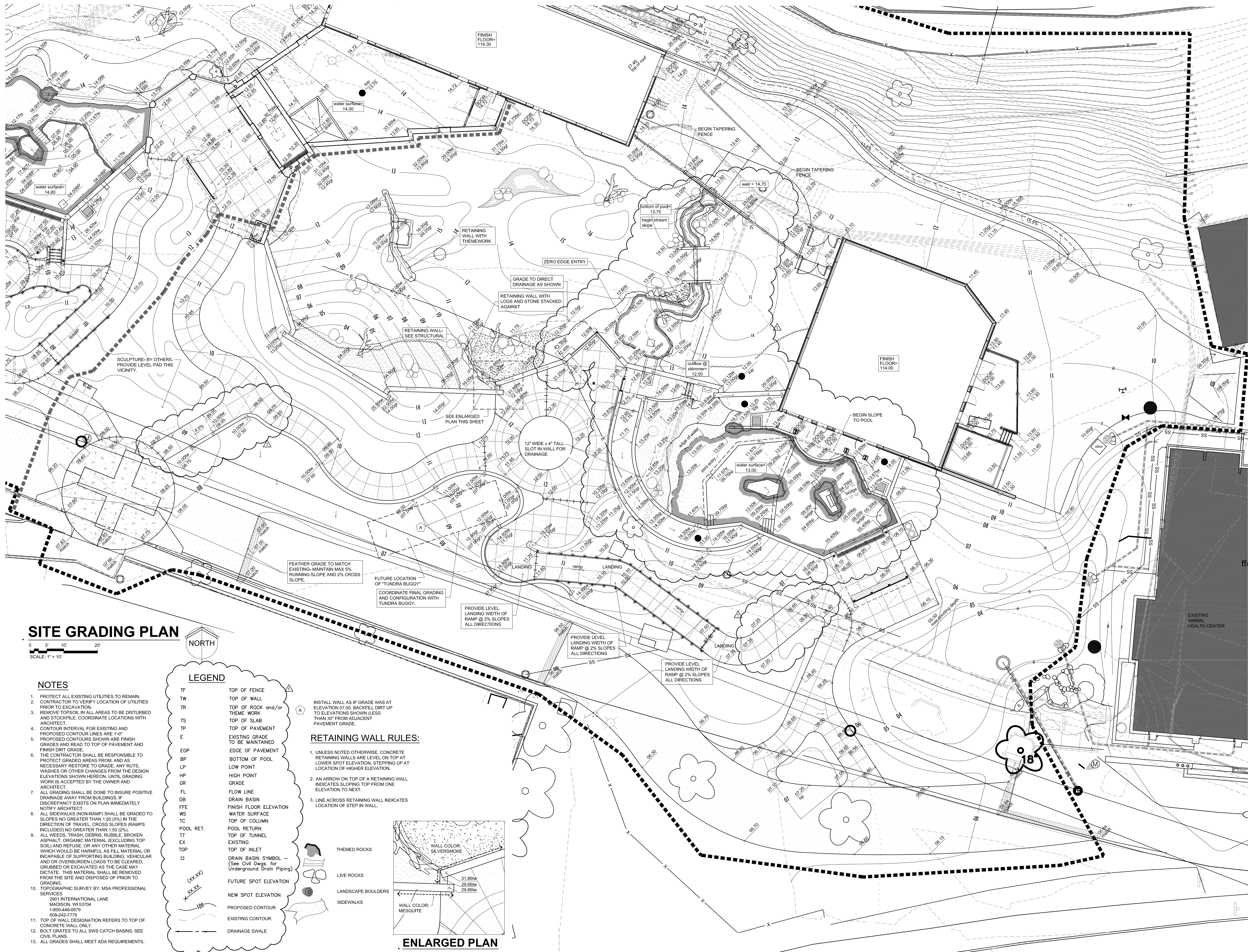
- NOTES**
- PROTECT ALL EXISTING UTILITIES TO REMAIN.
  - CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO EXCAVATION.
  - REMOVE TOPSOIL IN ALL AREAS TO BE DISTURBED AND STOCKPILE. COORDINATE LOCATIONS WITH ARCHITECT.
  - CONTOUR INTERVAL FOR EXISTING AND PROPOSED CONTOUR LINES ARE 1'-0".
  - PROPOSED CONTOUR LINES ARE FINISH GRADES AND READ TO TOP OF PAVEMENT AND FINISH DIRT GRADE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT GRADED AREAS FROM, AND AS NECESSARY RESTORE TO GRADE, ANY RUTS, WASHES OR OTHER CHANGES FROM THE DESIGN ELEVATIONS SHOWN HEREON, UNTIL GRADING WORK IS ACCEPTED BY THE OWNER AND ARCHITECT.
  - ALL GRADING SHALL BE DONE TO INSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS. IF DISCREPANCY EXISTS ON PLAN IMMEDIATELY NOTIFY ARCHITECT.
  - ALL SIDEWALKS (NON-RAMP) SHALL BE GRADED TO SLOPES NO GREATER THAN 1:20 (5%) IN THE DIRECTION OF TRAVEL. CROSS SLOPES (RAMPS) INCLUDED NO GREATER THAN 1:50 (2%).
  - ALL WEEDS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT, ORGANIC MATERIAL (EXCLUDING TOP SOIL) AND REFUSE, OR ANY OTHER MATERIAL WHICH WOULD BE HARMFUL AS FILL MATERIAL OR INCAPABLE OF SUPPORTING BUILDING, VEHICULAR AND/OR OVERBURDEN LOADS TO BE CLEARED, GRUBBED OR EXCAVATED AS THE CASE MAY DICTATE. THIS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PRIOR TO GRADING.
  - TOPOGRAPHIC SURVEY BY: MSA PROFESSIONAL SERVICES  
2901 INTERNATIONAL LANE  
MADISON, WI 53704  
1-800-446-0679  
608-242-7778
  - TOP OF WALL DESIGNATION REFERS TO TOP OF CONCRETE WALL ONLY.
  - BOLT GRATINGS TO ALL SWS CATCH BASINS. SEE CIVIL PLANS.
  - ALL GRADES SHALL MEET ADA REQUIREMENTS.

**RETAINING WALL RULES:**

- UNLESS NOTED OTHERWISE, CONCRETE RETAINING WALLS ARE LEVEL ON TOP AT LOWER SPOT ELEVATION, STEPPING UP AT LOCATION OF HIGHER ELEVATION.
- AN ARROW ON TOP OF A RETAINING WALL INDICATES SLOPING TOP FROM ONE ELEVATION TO NEXT.
- LINE ACROSS RETAINING WALL INDICATES LOCATION OF STEP IN WALL.







**SITE GRADING PLAN**

0 5' 10' 20'  
SCALE: 1" = 10'



**NOTES**

- PROTECT ALL EXISTING UTILITIES TO REMAIN. CONTRACTOR TO VERIFY LOCATION OF UTILITIES PRIOR TO EXCAVATION.
- REMOVE TOPSOIL IN ALL AREAS TO BE DISTURBED AND STOCKPILE. COORDINATE LOCATIONS WITH ARCHITECT.
- CONTOUR INTERVAL FOR EXISTING AND PROPOSED CONTOUR LINES ARE 1'-0". PROPOSED CONTOURS SHOWN ARE FINISH GRADES AND READ TO TOP OF PAVEMENT AND FINISH DIRT GRADE.
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- TALL WEEDS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT, ORGANIC MATERIAL (EXCLUDING TOP SOIL) AND REFUSE, OR ANY OTHER MATERIAL WHICH WOULD BE HARMFUL AS FILL MATERIAL OR INCAPABLE OF SUPPORTING BUILDING, VEHICULAR AND/OR OVERBURDEN LOADS TO BE CLEARED, GRUBBED OR EXCAVATED AS THE CASE MAY DICTATE. THIS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PRIOR TO GRADING.
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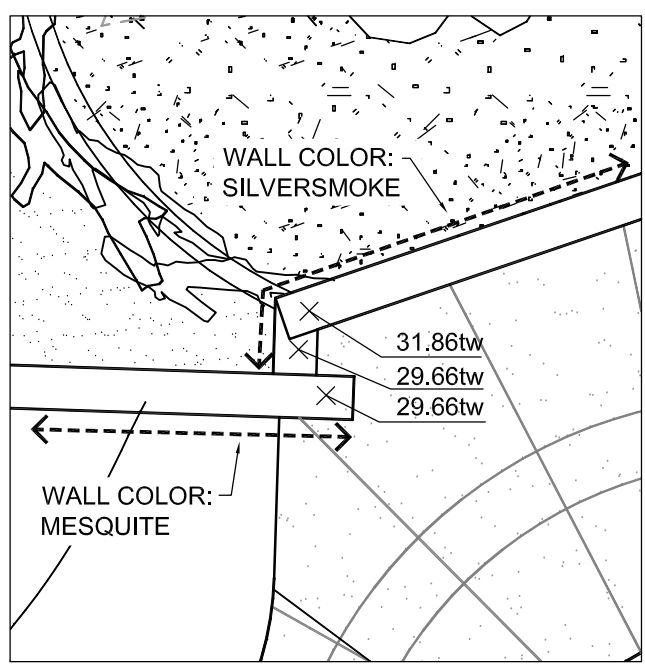
**LEGEND**

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- TR TOP OF ROCK and/or THEME WORK
- TS TOP OF SLAB
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- E EXISTING GRADE TO BE MAINTAINED
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- DRAIN BASIN SYMBOL - (See Civil Dwg. for Underground Drain Piping)
- (xx.xx) FUTURE SPOT ELEVATION
- (yy.yy) NEW SPOT ELEVATION
- - - - - PROPOSED CONTOUR
- — — — — EXISTING CONTOUR
- - - - - DRAINAGE SWALE

INSTALL WALL AS IF GRADE WAS AT ELEVATION 07.00. BACKFILL DIRT UP TO ELEVATIONS SHOWN (LESS THAN 30" FROM ADJACENT PAVEMENT GRADE).

**RETAINING WALL RULES:**

- UNLESS NOTED OTHERWISE, CONCRETE RETAINING WALLS ARE LEVEL ON TOP AT LOWER SPOT ELEVATION, STEPPING UP AT LOCATION OF HIGHER ELEVATION.
- AN ARROW ON TOP OF A RETAINING WALL INDICATES SLOPING TOP FROM ONE ELEVATION TO NEXT.
- LINE ACROSS RETAINING WALL INDICATES LOCATION OF STEP IN WALL.



**ENLARGED PLAN**

**wdm**  
ARCHITECTS  
WDM Architects P.A.  
105 North Washington  
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F 316.262.0002  
wdmarchitects.com

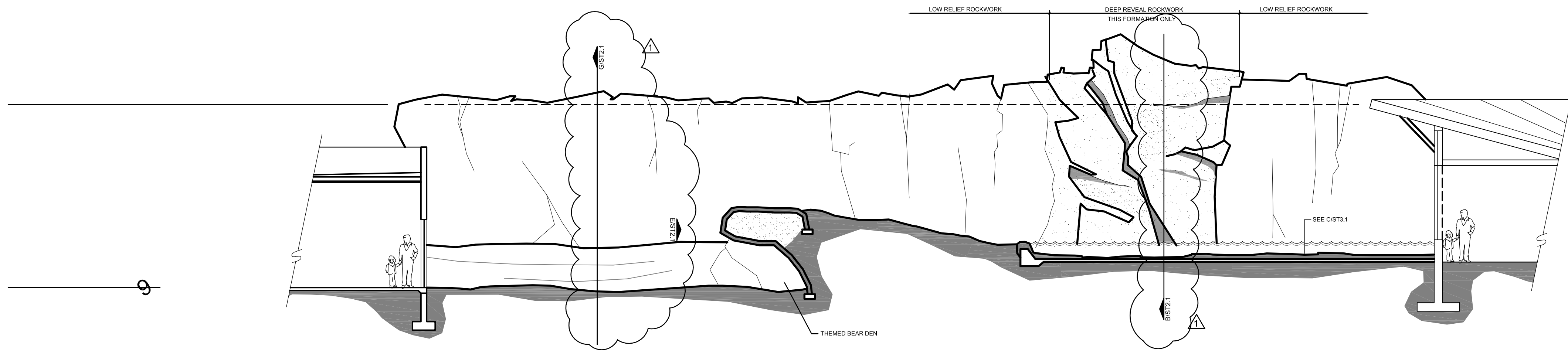
we do more  
**henry vilas**  
**MOO**

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
RFB No. 313086  
Henry Vilas Zoo - County of Dane  
Department of Public Works  
1919 Alliant Energy Center Way  
Madison, Wisconsin

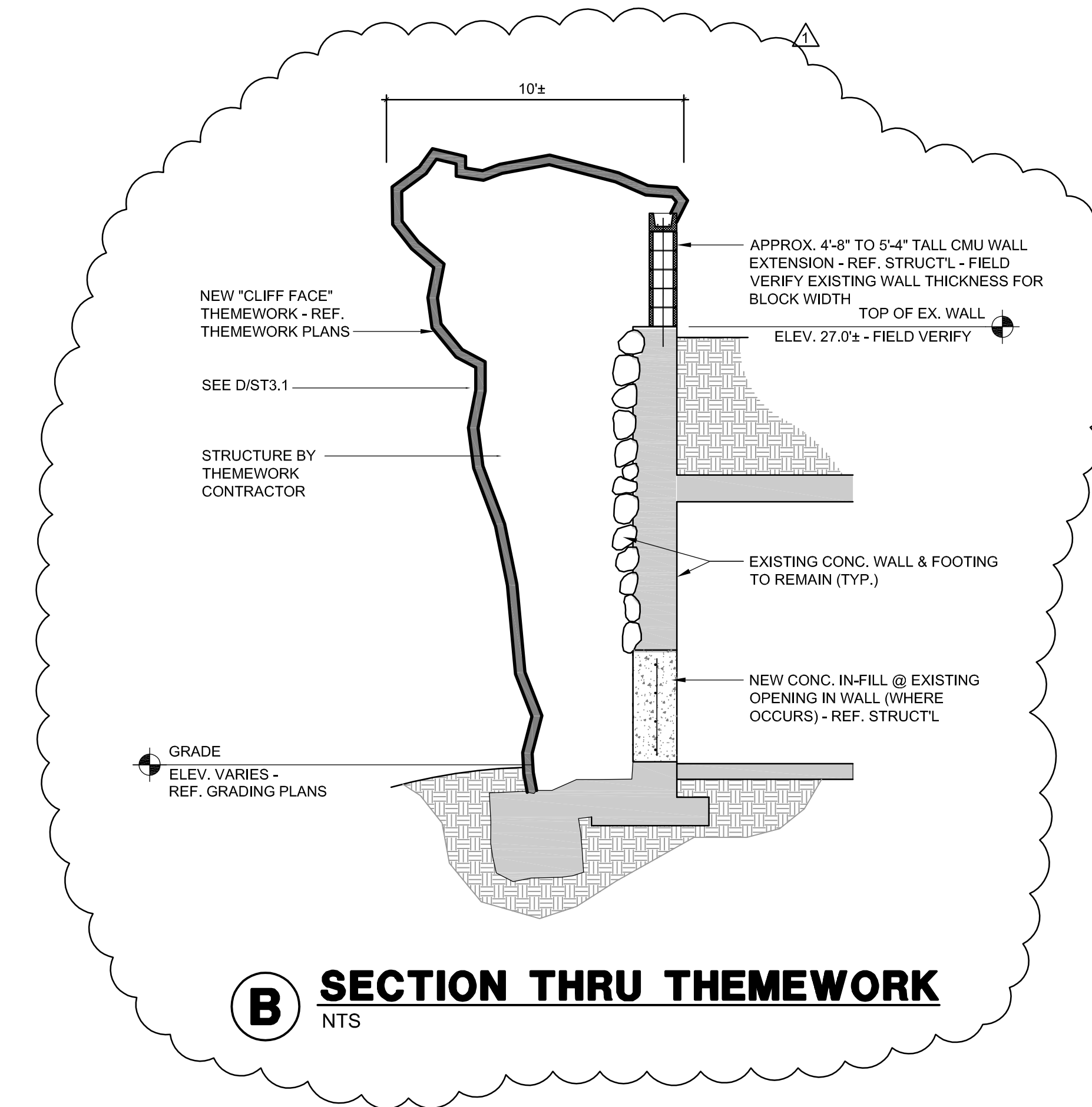
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WDM No. 13046 drawn: NS  
checked: SR  
SITE GRADING PLAN

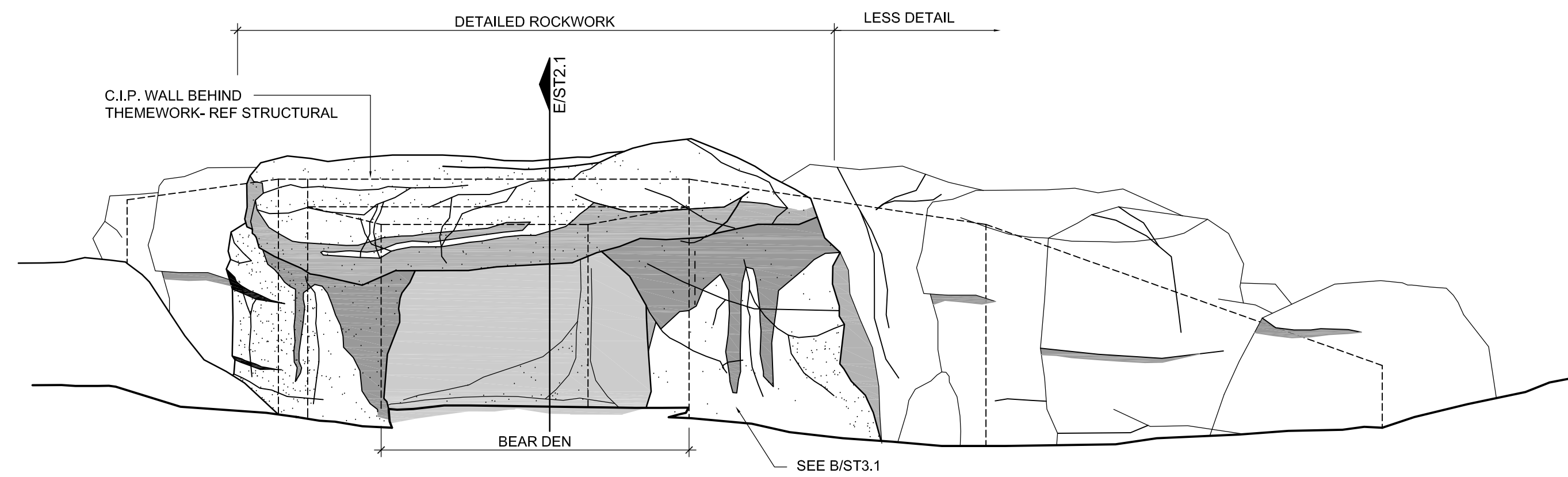
**SG1.2**



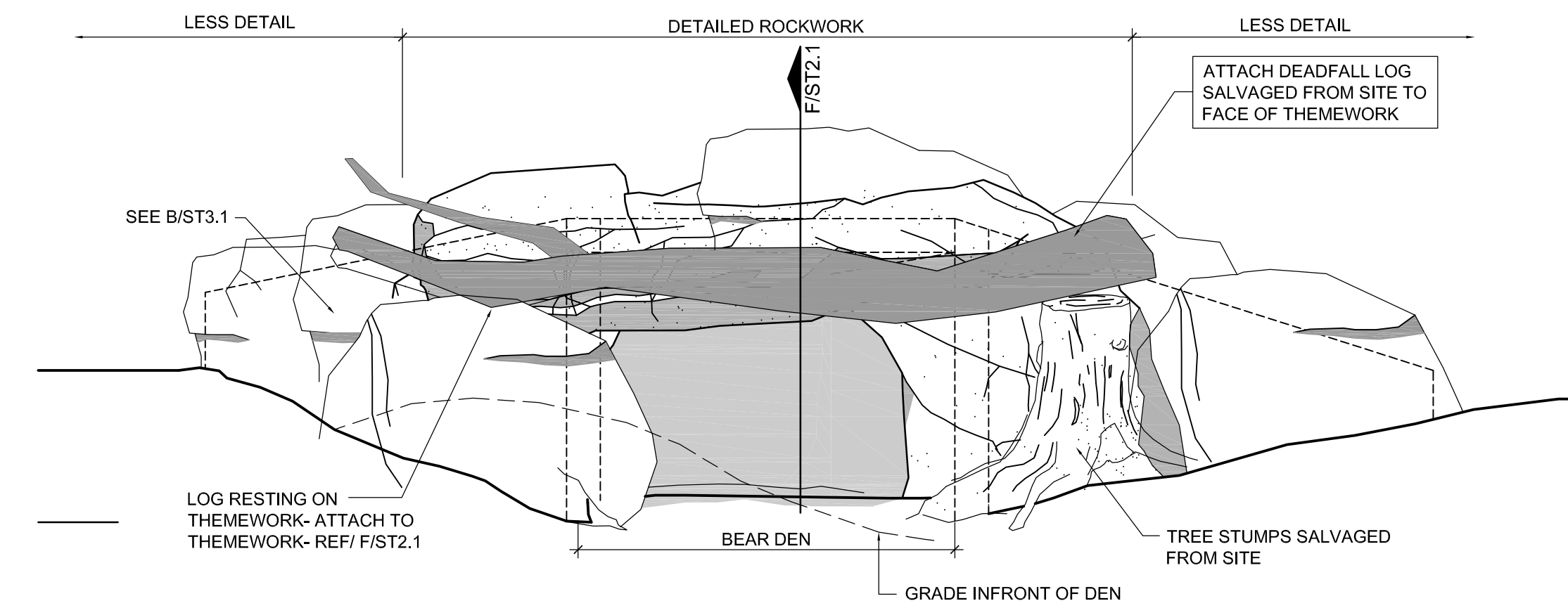
**A BACK CONTAINMENT WALL THEMEWORK ELEVATION**  
SCALE: 1/8" = 1'-0"



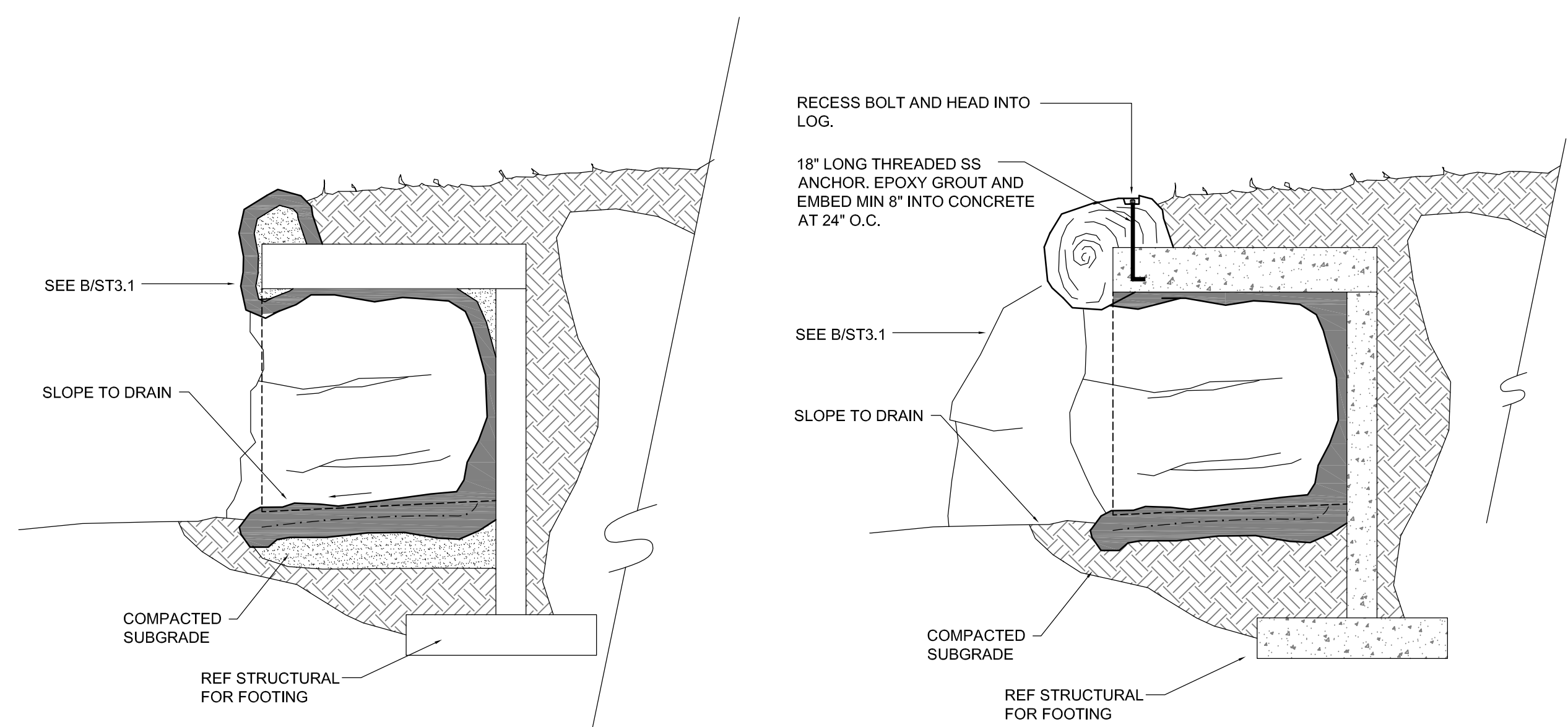
**B SECTION THRU THEMEWORK**  
NTS



**C BEAR DEN 1**  
SCALE: 3/8" = 1'-0"

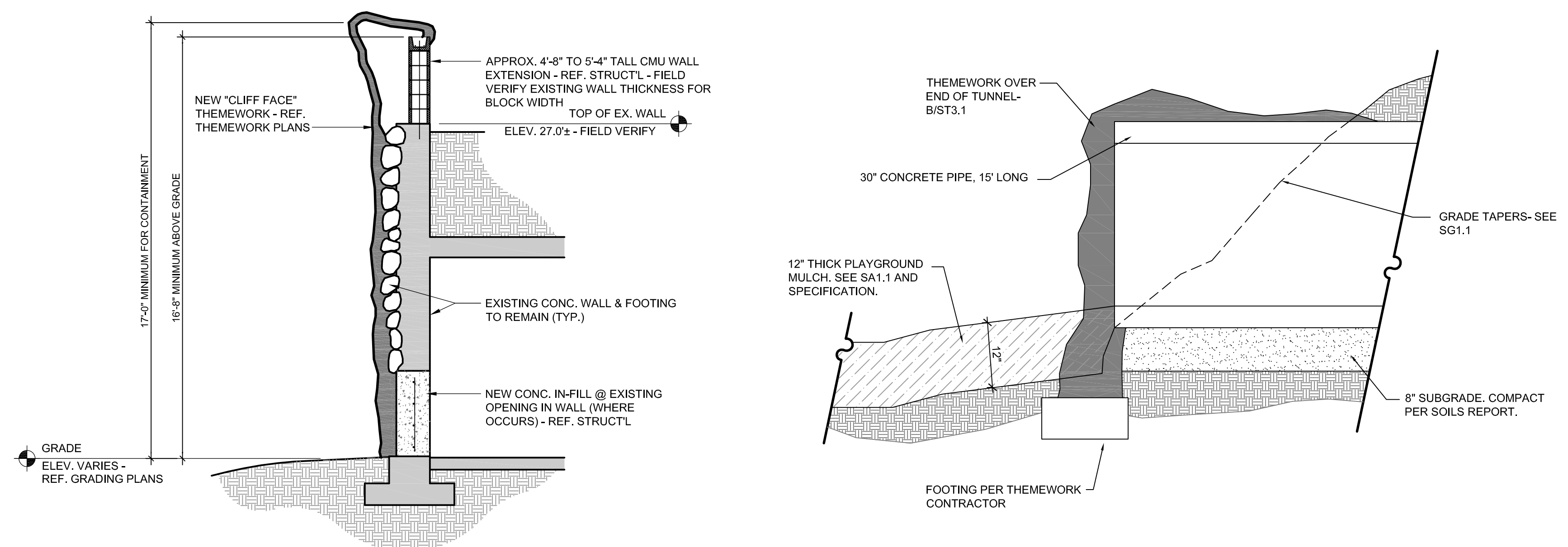


**D BEAR DEN 2**  
SCALE: 3/8" = 1'-0"



**E SECTION BEAR DEN 1**  
SCALE: 3/8" = 1'-0"

**F SECTION BEAR DEN 2**  
SCALE: 3/8" = 1'-0"



**G SECTION THRU EXISTING WALL**  
NTS

**H CRAWL TUNNEL**  
SCALE: 3/4" = 1'-0"



WDM Architects P.A.  
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F 316.262.0002  
wdmarchitects.com



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THEMEWORK ELEVATIONS

**ST2.1**