

ADDENDUM B

ZOO NEW WEST ENTRANCE & OTTER EXHIBIT

FOR

Milwaukee County Zoo

February 24, 2106

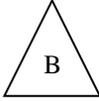
ARCHITECT
PECKHAM GUYTON ALBERS & VIETS, INC.
200 NORTH BROADWAY, SUITE 1000
ST. LOUIS, MO 63102
(314) 231-7318

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated August 25, 2015 as noted below. This Addendum consists of seventeen (17) total pages and attachments indicated. Each Bidder shall acknowledge on the Form of Proposal his receipt of this Addendum. Failure to do so may constitute non-conformity in the bid.

FORMAT

- A. Revisions to Project Manual:
 - 1. Revisions are located and described unless revisions to a Section are extensive, in which case the entire Section is reissued with revisions denoted with a vertical line in the margin.
- B. Revisions to Drawings:
 - 1. Minor revision to existing drawings are located and described below. Where revisions to a Drawing are extensive, the entire Drawing is reissued with revisions denoted.
 - 2. A revision to a new drawing is indicated with a "cloud" and a lettered revision triangle around the sheet number. The triangle is referenced and dated in the title block.
 - 3. A revision to an existing drawing is indicated with a "cloud" and a lettered revision triangle. The triangle is referenced and dated in the title block.
 - 4. Subsequent revisions on previously revised drawings will have only the current revisions "clouded" but the former revision triangle(s) will remain for reference.

Spec Section No.	Sheet Discipline Prefix	Sheet No. 1	Sheet No. 2	Revision Description	Addendum No.	Revision Date	Format	Sketch No.	RFI No.
221113				Facility Water Distribution specification revised to include AWWA C900 PVC water pipe as an acceptable material for water main	B	2/24/2016	8.5x11		
	G	01	100	Sheet index updated per Addendum B.	B	2/24/2016	Full Size		
	C	02	321	Grades revised at north wall of retail building and adjacent retaining wall.	B	2/24/2016	Full Size		
	C	02	330	Replacement of existing hydrant by water main connection deleted.	B	2/24/2016	Full Size		
	C	02	330A	Replacement of existing hydrant by water main connection deleted.	B	2/24/2016	Full Size		
	C	02	331	Additional drain tiles added and extended from storm inlets and manholes. Dewatering drain tile added behind retaining wall.	B	2/24/2016	Full Size		
	C	02	332	Replacement of existing hydrant by water main connection deleted.	B	2/24/2016	Full Size		
	C	02	332A	Replacement of existing hydrant by water main connection deleted.	B	2/24/2016	Full Size		
	C	02	333	The replacement of the hydrant by the water main connection was eliminated.	B	2/24/2016	Full Size		
	C	02	333A	The replacement of the hydrant by the water main connection was eliminated.	B	2/24/2016	Full Size		
	C	02	341	Dewatering drain tile added to typical retaining wall section	B	2/24/2016	Full Size		
	C	02	342	Drain tile detail revised	B	2/24/2016	Full Size		



SECTION 22 11 13

FACILITY WATER DISTRIBUTION PIPING

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes water service piping and related components outside the building for domestic water supply and fire-service.

1.02 REFERENCES

- A. Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition.
- B. Milwaukee Water Works Rules and Regulations Governing Water Service and Water Service Piping Specifications, Latest Edition.
- C. State Plumbing: Wisconsin Administrative Code Chapters SPS 381, 382, 384.

1.03 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.04 INFORMATION SUBMITTALS

- A. Field quality-control test reports.
- B. Disinfection test results.

1.05 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Comply with applicable requirements of the Milwaukee Water Works.
 - 2. Comply with standards of authorities having jurisdiction for potable-water-service piping, including materials, installation, testing, and disinfection.
 - 3. Comply with standards of authorities having jurisdiction for fire-suppression water-service piping, including materials, hose threads, installation, and testing.
 - 4. Comply with State Plumbing Code.

1.06 PRODUCT CONDITIONS

- A. Interruption of Existing Water-Distribution Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary water-distribution service according to requirements indicated:
 - 1. Notify Architect and Owner no fewer than five days in advance of proposed interruption of service.
 - 2. Do not proceed with interruption of water-distribution service without Architect's and Owner's written permission.

1.07 COORDINATION

- A. Coordinate connection to water main with Owner.
- B. Coordinate installation of water service lateral with work being performed by others.
- C. Coordinate water service building connection with building plumbing contractor.

PART 2 - PRODUCTS

2.01 PIPE AND FITTINGS

- A. General: All water service piping shall be in accordance with these specifications and of approved materials listed in State Plumbing Code SPS Table 384.30-7 and of material approved of by local water utility and local authority having jurisdiction. In the case of conflicts, the Plumbing Code and local water utility and local authority requirements govern.
- B. Cross linked polyethylene (PEX) water service piping shall meet the requirements of ASTM F876 and F877.
- C. Ductile-Iron water pipe shall conform to the requirements of the American National Standard for Ductile Iron Pipe, Centrifugally Cast, AWWA C151/A21.51 – latest revision and requirements of Chapter 8.18.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition.
 - 1. Class 52.
 - 2. Cement mortar lining and internal and external bituminous coats in accordance with Section 51.8 of AWWA C151.
 - 3. Push-on gasket pipe.
 - 4. Plain rubber gaskets.
 - 5. Bonding straps to provide electrical conductivity without field testing.

Addendum B

Joins for Ductile-Iron Pipe:

- 1. Joints shall be rubber gasket joints.
- 2. Conform to the requirements of American National Standard for Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings (ANSI/AWWA C111/A221.11, Latest Edition).

- E. PVC, AWWA Pipe: AWWA C900, Class 200, with bell end and spigot end meeting the requirements of Chapter 8.20.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin.
 - 1. Fittings shall be in accordance with Chapter 8.22.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin.
 - 2. Push-on joint, ductile iron fittings: AWWA C110 and C111.
 - 3. Mechanical joint, ductile iron fittings: AWWA C153, ductile iron compact pattern.
 - 4. Gland, gaskets and bolts: AWWA C111, ductile iron glands, rubber gaskets and steel bolts.

2.02 HYDRANTS

- A. Waterous 5-1/4" Pacer

2.03 GATE VALVES

- A. Conform to AWWA C-500 and Standard Specifications for Sewer and Water Construction in Wisconsin; suitable for direct bury.
- B. Valve Boxes: Cast iron conforming to ASTM Designation A-48, Class 20 and Standard Speculations for Sewer and Water Construction in Wisconsin.

2.04 CORPORATION VALVES AND CURB STOPS

- A. Conform to AWWA C-800 and ASTM B-62 and Standard Specifications for Sewer and Water Construction in Wisconsin.

2.05 WATER METERS

- A. N/A.

PART 3 - EXECUTION

3.01 EARTHWORK

- A. Refer to Section 31 20 00 "Earth Moving" for excavating, trenching, and backfilling.

3.02 PIPING INSTALLATION

- A. Water-Main Connection: Tap water main according to requirements to water utility company and of size and in location indicated.
- B. General: Install water and service piping in accordance with Chapter 4.3.0 of the Standard Specifications for Sewer and Water construction in Wisconsin.
- C. Install ductile-iron, water-service piping according to AWWA C600 and Chapter 4.4.0 of the Standard Specifications of Sewer and Water Construction Wisconsin.
- D. All ductile-iron pipe shall be encased in polyethylene per AWWA C105, Latest Edition and in accordance with Chapter 4.4.4 of the Standard Specifications for Sewer and Water Construction in Wisconsin. All joints and fittings shall have polyethylene encasement installed per manufacturer's requirements and procedures.
- E. Install PVC, AWWA pie according to ASTM F645 and AWWA M23 and Chapter 4.6.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin.
- F. Install PEX water piping in accordance with manufacturer's recommendations.
- G. Bury piping with depth of cover over top at least 72 inches to finish grade.
- H. If water service piping crosses a sanitary sewer, the water service piping within five feet of the point of crossing shall be installed in accordance with the following requirements:
 - 1. The bottom of the water service piping is installed at least 12 inches above the sewer.
 - 2. The water service piping is installed at least 18 inches below the bottom of the sewer.
 - 3. The water service piping is installed within a waterproof sleeve made of materials as specified for sanitary building sewers in SPS 384.30(2).
- I. Water service piping shall not be installed within 6 inches of a storm sewer.
- J. Bedding and cover for water service piping shall be in accordance with Section 4.3.3 and File No. 36 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition. Trench backfill shall be granular backfill in accordance with Section 8.43.4 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition. Trench backfill beneath public roadways shall be Aggregate Slurry backfill in accordance with Section 8.43.8 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition.
- K. Install underground piping with restrained joints at horizontal and vertical changes in direction. Use restrained-joint piping, thrust blocks, anchors, tie-rods and clamps, and other supports.

3.03 JOINT CONSTRUCTION

- A. Make pipe joints according to the following:
 - 1. Ductile-Iron Piping, Rubber Gasketed Joints for Water-Service Piping: AWWA C600 and AWWA M41 and in accordance with Section 4.4.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition.
 - 2. PVC Piping Gasketed Joints: Use joining materials according to AWWA C900. Construct joints with elastomeric seals and lubricant according to ASTM D2774 or ASTM D3139, pipe manufacturer's written instructions and Section 4.6.2 of the Standard Specifications for Sewer and Water Construction in Wisconsin.
 - 3. PEX Piping: In accordance with manufacturer's recommendations
 - 4. Dissimilar Materials Piping Joints: Use adapters compatible with both piping materials, with OD, and with system working pressure.

221113 – FACILITY WATER DISTRIBUTION PIPING - 3

Milwaukee County Zoo
West Entrance & Otter Exhibit

Milwaukee County #Z150-14452 (Phase 2)
Z150-14453 and Z150-14455
Project No. 75919-00
IFP

3.04 FIELD QUALITY CONTROL

- A. Conduct hydrostatic tests in accordance with Chapter 4.15.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition.

3.05 IDENTIFICATION

- A. Install tracer wire for non-metallic water services in accordance with SPS Section 382.40(8)(k). Tracer wire insulation color shall be blue for potable water service piping.

3.06 CLEANING/DISINFECTION

- A. Clean and disinfect water service piping in accordance with AWWA C651, SPS Chapter 82.40(8)(i) and Chapter 4.16.0 of the Standard Specifications for Sewer and Water Construction in Wisconsin, Latest Edition.

END OF SECTION

DRAWING INDEX					DRAWING INDEX				
SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION NO.	REVISION DATE	SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION NO.	REVISION DATE
General									
G01.100	COVER SHEET	08/25/15	B	02/24/16	A74.505	4274 HOLDING - EXTERIOR WALL SECTION DETAILS	08/25/15		
G01.301	FIRE PATH & CODE COMPLIANCE PLAN	08/25/15			A74.510	4274 HOLDING - EXTERIOR PLAN DETAILS	08/25/15		
G01.302	ZONE 1 CODE COMPLIANCE PLAN	08/25/15			A74.701	4274 HOLDING - STAIR & RAILING DETAILS	08/25/15		
G01.303	ZONE 2 CODE COMPLIANCE PLAN	08/25/15			A99.101	ROOM FINISH SCHEDULE & MATERIAL LEGEND	08/25/15		
G01.351	GENERAL ACCESSIBILITY REQUIREMENTS	08/25/15			A99.102	DOOR SCHEDULE, DOOR & FRAME TYPES	08/25/15		
					A99.103	PARTITION TYPES, WALL HEAD DETAILS, DOOR DETAILS	08/25/15		
Civil									
C02.201	BASE CONDITIONS - OVERALL	08/25/15	A	10/14/15					
C02.202	BASE DRAWING - PLAZA / OTTER EXHIBIT AREA	08/25/15	A	10/14/15					
C02.301	SITE PREPARATION & EROSION CONTROL PLAN	08/25/15	A	10/14/15					
C02.302	SITE PREPARATION & EROSION CONTROL PLAN	08/25/15	A	10/14/15					
C02.303	SITE PLAN PARKING AREA	08/25/15	A	10/14/15					
C02.304	SITE PLAN PLAZA - OTTER EXHIBIT AREA	08/25/15	A	10/14/15					
C02.320	GRADING PLAN PARKING AREA	08/25/15	A	10/14/15					
C02.321	GRADING PLAN	08/25/15	B	02/24/16					
C02.330	UTILITY PLAN	08/25/15	B	02/24/16					
C02.330A	ALTERNATE UTILITY PLAN	10/14/15	B	02/24/16					
C02.331	UTILITY PLAN	08/25/15	B	02/24/16					
C02.332	WATER PLAN & PROFILE	08/25/15	B	02/24/16					
C02.332A	ALTERNATE WATER PLAN & PROFILE	10/14/15	B	02/24/16					
C02.333	SANITARY PLAN & PROFILE	08/25/15	B	02/24/16					
C02.333A	ALTERNATE SANITARY PLAN & PROFILE	10/14/15	B	02/24/16					
C02.340	EROSION CONTROL DETAILS	08/25/15	A	10/14/15					
C02.341	DETAILS	08/25/15	B	02/24/16					
C02.342	DETAILS	08/25/15	B	02/24/16					
Architectural									
A01.101	ABBREVIATIONS & DRAWING CONVENTIONS	08/25/15							
A02.201	ENLARGED SITE DEMOLITION PLAN	08/25/15							
A02.301	OVERALL SITE PLAN	08/25/15							
A02.302	ENLARGED SITE PLAN & PAVING PLAN - BASE BID	08/25/15							
A02.303	ENLARGED SITE PLAN & PAVING PLAN - ADD ALTERNATE #01	08/25/15							
A02.501	SITE DETAILS - FENCES & GATES	08/25/15							
A02.502	SITE DETAILS - FENCES & GATES	08/25/15							
A02.503	SITE DETAILS - FENCES & GATES	08/25/15							
A71.301	4271 TICKETING - PLANS	08/25/15							
A71.401	4271 TICKETING - ELEVATIONS & SECTIONS	08/25/15							
A71.501	4271 TICKETING - EXTERIOR WALL SECTION DETAILS	08/25/15							
A71.502	4271 TICKETING - EXTERIOR WALL SECTION DETAILS	08/25/15							
A71.503	4271 TICKETING - EXTERIOR WALL SECTION DETAILS	08/25/15							
A71.504	4271 TICKETING - EXTERIOR WALL PLAN DETAILS	08/25/15							
A71.650	4271 TICKETING - CASEWORK DETAILS	08/25/15							
A72.301	4272 RETAIL & RESTROOMS - PLANS	08/25/15							
A72.302	4272 RETAIL & RESTROOMS - PLANS	08/25/15							
A72.310	4272 RETAIL & RESTROOMS - ENLARGED PLANS	08/25/15							
A72.311	4272 RETAIL & RESTROOMS - ENLARGED PLANS	08/25/15							
A72.401	4272 RETAIL & RESTROOMS - ELEVATIONS	08/25/15							
A72.410	4272 RETAIL & RESTROOMS - SECTIONS	08/25/15							
A72.501	4272 RETAIL & RESTROOMS - EXTERIOR SECTION DETAILS	08/25/15							
A72.502	4272 RETAIL & RESTROOMS - EXTERIOR SECTION DETAILS	08/25/15							
A72.503	4272 RETAIL & RESTROOMS - EXTERIOR SECTION DETAILS	08/25/15							
A72.504	4272 RETAIL & RESTROOMS - EXTERIOR SECTION DETAILS	08/25/15							
A72.505	4272 RETAIL & RESTROOMS - EXTERIOR SECTION DETAILS	08/25/15							
A72.510	4272 RETAIL & RESTROOMS - EXTERIOR PLAN DETAILS	08/25/15							
A72.601	4272 RETAIL & RESTROOMS - INTERIOR ELEVATIONS	08/25/15							
A73.301	4273 OTTER EXHIBIT - PLAN	08/25/15							
A73.310	4273 SHADE STRUCTURE - PLANS, SECTIONS & ELEVATIONS	08/25/15							
A73.401	4273 OTTER EXHIBIT - ELEVATIONS & SECTIONS	08/25/15							
A73.402	4273 OTTER EXHIBIT - ELEVATIONS & SECTIONS	08/25/15							
A73.403	4273 OTTER EXHIBIT - ELEVATIONS & SECTIONS	08/25/15							
A73.501	4273 OTTER EXHIBIT - SECTION DETAILS	08/25/15							
A73.502	4273 OTTER EXHIBIT - PLAN DETAILS	08/25/15							
A73.503	4273 OTTER EXHIBIT - GLAZING DETAILS	08/25/15							
A73.504	4273 OTTER EXHIBIT - SKIMMER DETAILS	08/25/15							
A73.505	4273 OTTER EXHIBIT - POOL DETAILS	08/25/15							
A74.301	4274 HOLDING - PLANS	08/25/15							
A74.401	4274 HOLDING - ELEVATIONS	08/25/15							
A74.410	4274 HOLDING - SECTIONS	08/25/15							
A74.415	4274 HOLDING - ENLARGED CAGING ELEVATIONS	08/25/15							
A74.501	4274 HOLDING - EXTERIOR WALL SECTION DETAILS	08/25/15							
A74.502	4274 HOLDING - EXTERIOR WALL SECTION DETAILS	08/25/15							
A74.503	4274 HOLDING - EXTERIOR WALL SECTION DETAILS	08/25/15							
A74.504	4274 HOLDING - EXTERIOR WALL SECTION DETAILS	08/25/15							

SHEET NUMBER	SHEET NAME	ISSUE DATE	REVISION NO.	REVISION DATE
A74.505	4274 HOLDING - EXTERIOR WALL SECTION DETAILS	08/25/15		
A74.510	4274 HOLDING - EXTERIOR PLAN DETAILS	08/25/15		
A74.701	4274 HOLDING - STAIR & RAILING DETAILS	08/25/15		
A99.101	ROOM FINISH SCHEDULE & MATERIAL LEGEND	08/25/15		
A99.102	DOOR SCHEDULE, DOOR & FRAME TYPES	08/25/15		
A99.103	PARTITION TYPES, WALL HEAD DETAILS, DOOR DETAILS	08/25/15		
Structural				
S71.301	FRAMING AND FOUNDATION PLAN	08/25/15		
S71.501	WALL SECTIONS AND DETAILS	08/25/15		
S72.301	FRAMING AND FOUNDATION PLANS	08/25/15		
S72.501	WALL SECTIONS AND DETAILS 1	08/25/15		
S72.502	WALL SECTIONS AND DETAILS 2	08/25/15		
S73.301	FRAMING AND FOUNDATION PLANS	08/25/15		
S73.501	WALL SECTIONS AND DETAILS	08/25/15		
S74.301	FRAMING AND FOUNDATION PLANS	08/25/15		
S74.501	WALL SECTIONS AND DETAILS	08/25/15		
Plumbing				
P01.101	GENERAL NOTES, LEGEND, ABBREVIATIONS, SCHEDULES AND DETAILS	08/25/15		
P72.301	RETAIL AND REST ROOM - UNDERGROUND PLUMBING FLOOR PLAN	08/25/15		
P72.302	RETAIL AND REST ROOM - PLUMBING FLOOR PLAN	08/25/15		
P72.303	PLUMBING ISOMETRICS	08/25/15		
P74.301	HOLDING BUILDING - PLUMBING FLOOR PLAN	08/25/15		
P74.302	PLUMBING ISOMETRICS	08/25/15		
Mechanical				
M01.101	MECHANICAL LEGEND, NOTES AND SCHEDULES	08/25/15		
M01.102	MECHANICAL SCHEDULES AND DETAILS	08/25/15		
M01.103	MECHANICAL DETAILS	08/25/15		
M02.101	MECHANICAL SITE PLAN	08/25/15		
M71.301	TICKETING BUILDING - HVAC FLOOR PLAN	08/25/15		
M72.301	RETAIL AND RESTROOMS - HVAC DUCTWORK PLAN	08/25/15		
M72.302	RETAIL AND RESTROOMS - RADIANT FLOOR PLAN	08/25/15		
M72.303	RETAIL AND RESTROOMS - HVAC SECTIONS	08/25/15		
M74.301	HOLDING BUILDING - HVAC FLOOR PLAN	08/25/15		
Electrical				
E01.101	ELECTRICAL LEGENDS, NOTES, AND ABBREVIATIONS	08/25/15		
E01.102	ELECTRICAL SCHEDULES AND RISER DIAGRAM	08/25/15		
E01.103	ELECTRICAL SCHEDULES	08/25/15		
E01.501	ELECTRICAL DETAILS	08/25/15		
E02.201	ELECTRICAL SITE UTILITY PLAN (NORTH)	08/25/15		
E02.202	ELECTRICAL SITE UTILITY PLAN	08/25/15		
E02.203	ELECTRICAL SITE UTILITY PLAN (SOUTH)	08/25/15		
E71.301	TICKETING BUILDING - POWER AND SYSTEMS FLOOR PLAN	08/25/15		
E72.301	RETAIL AND REST ROOM - POWER AND SYSTEM FLOOR PLAN	08/25/15		
E74.301	HOLDING BUILDING - POWER AND SYSTEMS FLOOR PLAN	08/25/15		
Lighting				
LT71.301	TICKETING BUILDING - LIGHTING FLOOR PLAN	07/28/15		
LT72.301	RETAIL AND REST ROOM - LIGHTING FLOOR PLAN	07/28/15		
LT74.301	HOLDING BUILDING - LIGHTING FLOOR PLAN	07/28/15		
L.S.S.				
LS01.001	SHEET INDEX, SYMBOLS, AND ABBREVIATIONS	08/25/15		
LS01.002	EQUIPMENT SCHEDULES	08/25/15		
LS02.001	LSS SITE PLAN	08/25/15		
LS03.801	DETAILS I	08/25/15		
LS03.802	DETAILS II	08/25/15		
LS03.803	DETAILS III	08/25/15		
LS03.804	DETAILS IV	08/25/15		
LS03.900	FABRICATION - 48" DIA STEEL VERTICAL FILTER TOWER	08/25/15		
LS03.910	FABRICATION - 42" DIA FRP LSS DEAERATION TOWER	08/25/15		
LS90.041	OTTER EXHIBIT - PIPING AND INSTRUMENTATION DIAGRAM	08/25/15		
LS90.042	OTTER EXHIBIT - PIPING AND INSTRUMENTATION DIAGRAM	08/25/15		
LS90.061	OTTER EXHIBIT - OZONE PIPING AND INSTRUMENTATION DIAGRAM	08/25/15		
LS90.099	OVERALL ISOMETRIC VIEW	08/25/15		
LS90.200	OTTER EXHIBIT - BELOW GRADE POOL PIPING	08/25/15		
LS90.300	OTTER EXHIBIT - BELOW GRADE EQUIPMENT ROOM PIPING PLAN	08/25/15		
LS90.310	OTTER EXHIBIT - EQUIPMENT ROOM PLAN	08/25/15		
LS90.315	OTTER EXHIBIT - EQUIPMENT CEILING PIPING PLAN	08/25/15		
LS90.400	OTTER EXHIBIT - OZONE PLAN	08/25/15		
LS90.500	OTTER EXHIBIT - LSS SECTIONS	08/25/15		
LS90.501	OTTER EXHIBIT - LSS SECTIONS	08/25/15		

ZOO NEW WEST ENTRANCE & OTTER EXHIBIT MILWAUKEE COUNTY ZOO

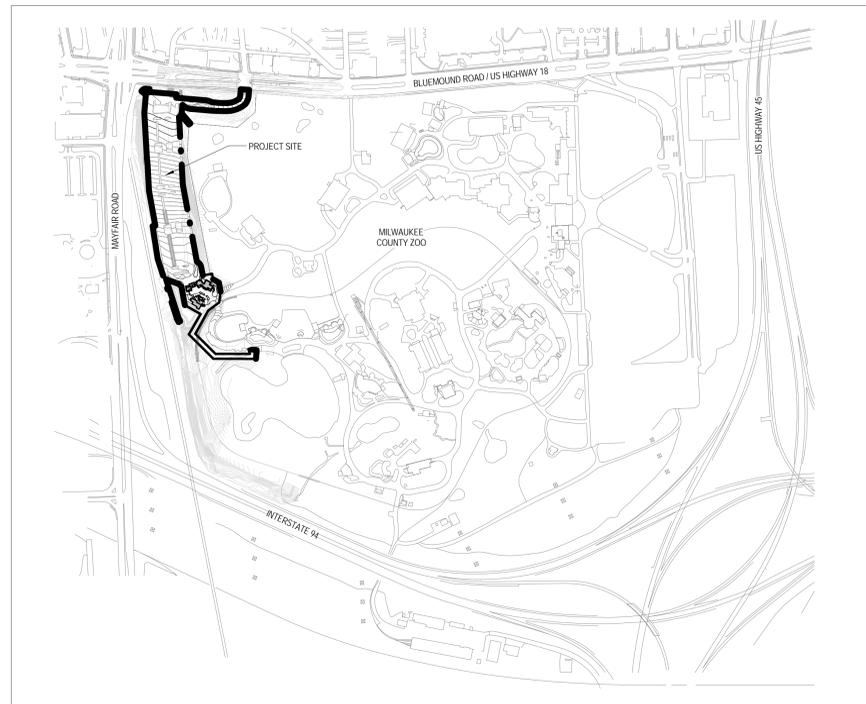
10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53226

Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
CITY CAMPUS 633 W. WISCONSIN AVE., SUITE 1000 MILWAUKEE, WI 53203



PGAV DESTINATIONS

PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM



PROJECT LOCATION

ISSUE FOR PERMIT

Project #: **Z150-14452 (Phase 2), Z150-14453, Z150-14455**
PGAV #: **75919-00**
Site #: **355**
Building #: **4271, 4272, 4273, 4274**
Date: **AUGUST 25, 2015**

Addendum A Issued: OCTOBER 14, 2015
Addendum B Issued: FEBRUARY 24, 2016

POINT OF CONTACT: PHILIP T. HUNG

Philip T. Hung, Architect, Project Manager
Milwaukee County - A&E +ES Section
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philip.hung@milwaukeecountywi.gov

PRIME CONSULTANT: PGAV DESTINATIONS

PHONE: 314-231-7318
200 North Broadway, Suite 1000
St. Louis, MO 63102



CIVIL ENGINEER: THE SIGMA GROUP

PHONE: 414-634-4200
1300 W. Canal Street
Milwaukee, WI 53233



STRUCTURAL ENGINEER: K. SINGH & ASSOCIATES, INC.

PHONE: 262-821-1171
3636 North 124th Street
Wauwatosa, WI 53222



MEP ENGINEER: IBC ENGINEERING SERVICES, INC.

PHONE: 262-549-1190
N8 W22195 Johnson Drive, Suite 180
Waukesha, WI 53186

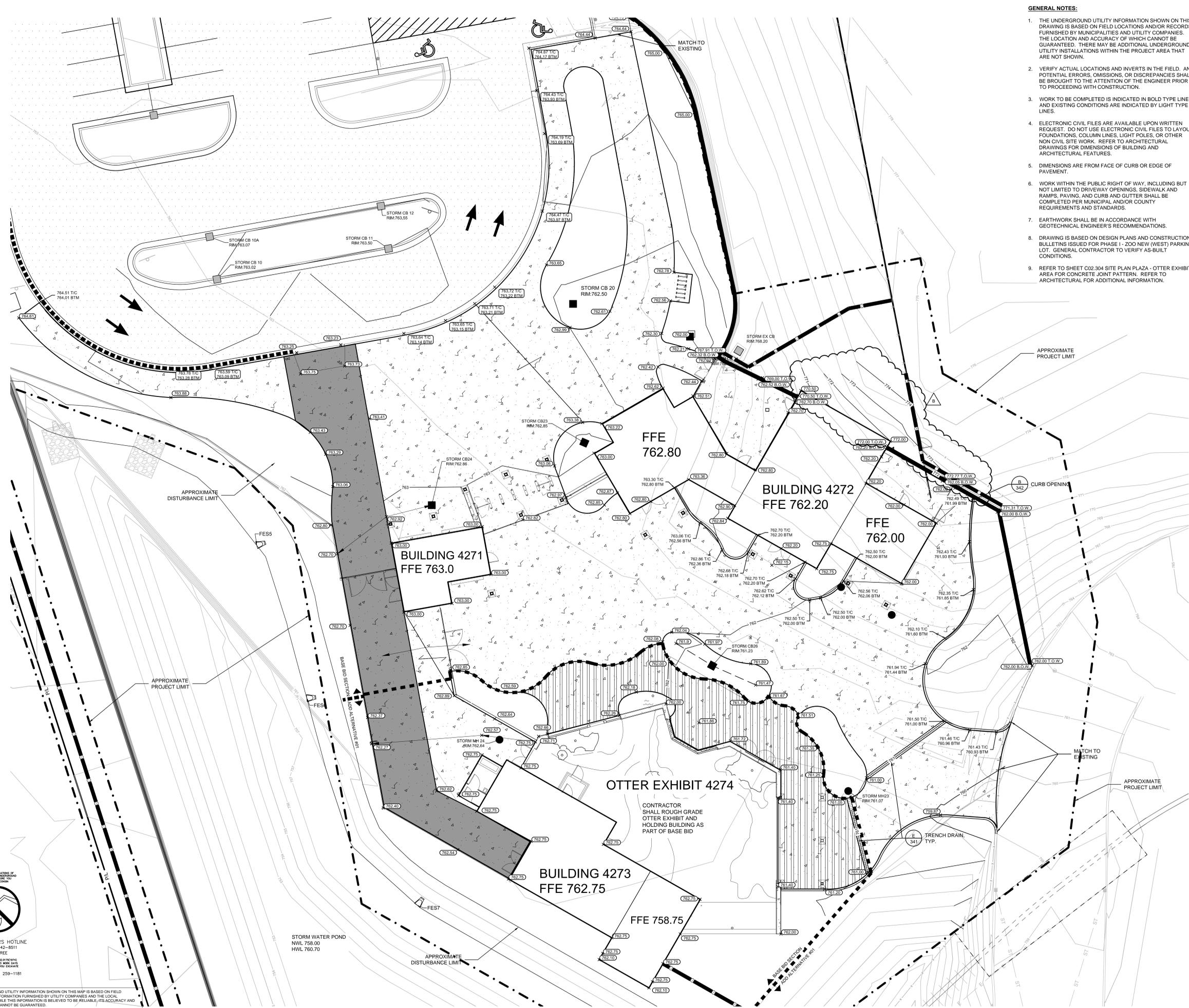


LSS ENGINEER: SATCHELL ENGINEERING & ASSOCIATES, INC.

PHONE: 760-405-8900
2890 S. Santa Fe Ave. Suite 106
San Marcos

TO OBTAIN LOCATIONS OF FACILITIES REFERENCED TO IN THIS DRAWING, CALL DIGGERS' HOTLINE
 1-800-242-8511
 TOLL FREE
 WE STRIVE FOR EXCELLENCE IN SERVICE AND NOTICE BEFORE YOU EXCAVATE
 M.I.W. AREA 259-1191

THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.



GENERAL NOTES:

1. THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS DRAWING IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
2. VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
3. WORK TO BE COMPLETED IS INDICATED IN BOLD TYPE LINES AND EXISTING CONDITIONS ARE INDICATED BY LIGHT TYPE LINES.
4. ELECTRONIC CIVIL FILES ARE AVAILABLE UPON WRITTEN REQUEST. DO NOT USE ELECTRONIC CIVIL FILES TO LAYOUT FOUNDATIONS, COLUMN LINES, LIGHT POLES, OR OTHER NON CIVIL SITE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDING AND ARCHITECTURAL FEATURES.
5. DIMENSIONS ARE FROM FACE OF CURB OR EDGE OF PAVEMENT.
6. WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO DRIVEWAY OPENINGS, SIDEWALK AND RAMPS, PAVING, AND CURB AND GUTTER SHALL BE COMPLETED PER MUNICIPAL AND/OR COUNTY REQUIREMENTS AND STANDARDS.
7. EARTHWORK SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
8. DRAWING IS BASED ON DESIGN PLANS AND CONSTRUCTION BULLETINS ISSUED FOR PHASE I - ZOO NEW (WEST) PARKING LOT. GENERAL CONTRACTOR TO VERIFY AS-BUILT CONDITIONS.
9. REFER TO SHEET C02.304 SITE PLAN PLAZA - OTTER EXHIBIT AREA FOR CONCRETE JOINT PATTERN. REFER TO ARCHITECTURAL FOR ADDITIONAL INFORMATION.



LEGEND:

- ASPHALT PAVEMENT (2ND LIFT) (A 341)
- CONCRETE PAVEMENT (PLAZA) (C 341)
- CONCRETE PAVEMENT (HEAVY DUTY) (D 341)
- CONCRETE PAVEMENT STAMPED AND COLORED
- EXISTING CONTOUR (5)
- PROPOSED CONTOUR (5)
- PROPOSED CURB & GUTTER SPOT GRADE (100.50 TIC, 100.00 BTM)
- PROPOSED PAVEMENT SPOT GRADE (100.00)
- PROPOSED TOP OF WALL GRADE (100.50 TW)
- PROPOSED BOTTOM OF WALL GRADE (100.50 BW)
- STORM INLET, TYP. (C 342)
- STORM MANHOLE, TYP. (A 342)
- TRENCH DRAIN, TYP. (E 341)
- CURB & GUTTER (REJECT) (C 341)

NOTES:

1. CONTRACTOR SHALL REMOVE AND RELOCATE TEMPORARY FENCE AS REQUIRED FOR RETAINING WALL INSTALLATION.

PGAV DESTINATIONS
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 WWW.PGAV.COM

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 Single Source - Smart Solutions
 www.sigmagroup.com
 1300 West Canal Street
 Milwaukee, WI 53233
 Phone: 414-443-4200
 Fax: 414-443-4210

Accessibility for Persons with Disabilities
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Architect/Engineer's review of submittals is for the purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

ISSUE FOR PERMIT

GRADING PLAN

DR	TPM	CK	JBL
PGAV	75919-00	CLIENT	MCZ

ZOO NEW WEST ENTRANCE & OTTER EXHIBIT
MILWAUKEE COUNTY ZOO
 10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53226



Milwaukee County Dept. of Administrative Services
 FACILITIES MANAGEMENT DIVISION
 Architectural, Engineering & Environmental Services
 CITY CAMPUS 633 W. WISCONSIN AVE., SUITE 1000 MILWAUKEE, WI 53203

REVISIONS:
 B 02/24/16

DATE:
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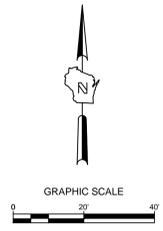
PROJECT:
 Z150-14452
 (PHASE 2)
 Z150-14453
 Z150-14455

SITE NO:
 355

BUILDING NO:

TO OBTAIN LOCATIONS OF FACILITIES SHOWN ON THIS MAP, CALL DIGGERS HOTLINE 1-800-242-5511 TOLL FREE. WE STRIVE FOR EXCELLENCE IN SERVICE. NOTICE BEFORE YOU DIG. MILWAUKEE AREA 259-1191

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- LEGEND:**
- W --- PROPOSED WATER SERVICE
 - SAN --- PROPOSED SANITARY SERVICE
 - E --- EXISTING STORM SEWER
 - COMM --- PROPOSED ELECTRICAL SERVICE
 - G --- PROPOSED COMMUNICATION DUCTS
 - G --- PROPOSED GAS SERVICE
 - PROPOSED STORM INLET (C 342)
 - PROPOSED STORM MANHOLE (A 342)
 - PROPOSED SANITARY MANHOLE (B 342)

- NOTES:**
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 5. ALL UTILITIES WITHIN 5 FEET OF PAVED AREAS SHALL REQUIRE GRANULAR BACKFILL. SLURRY BACKFILL IS REQUIRED FOR ALL WORK IN PUBLIC RIGHT OF WAY.
 6. PRIVATE STORM INLETS IN PAVEMENT SHALL REQUIRE DRAIN TILE STUBS OF 10 FEET IN TWO DIRECTIONS FOR SUBDRAINAGE. RIM GRADE FOR STORM INLETS IN CURB AND GUTTER ARE FLOW LINE GRADES.
 7. WORK IN PUBLIC RIGHT OF WAY SHALL FOLLOW MATERIAL AND INSTALLATION REQUIREMENTS PER MUNICIPAL AND/OR COUNTY.
 8. PRIVATE STORM SEWER 12-INCH DIAMETER OR LARGER SHALL BE HDPE. BELOW 12-INCH DIAMETER SHALL BE PVC SDR-35 ASTM D3034. PRIVATE WATER MAIN SHALL BE CLASS 150 DR 18 PVC CONFORMING TO AWWA C-900. PRIVATE SANITARY SEWER SHALL BE PVC SDR-35 ASTM D3034.
 9. COORDINATE FINAL LOCATION AND DESIGN OF PRIVATE UTILITY SERVICES (ELECTRIC, GAS, PHONE, CABLE) WITH UTILITY COMPANIES.
 10. REFER TO ELECTRICAL SITE UTILITY PLAN FOR SITE ELECTRICAL E02.202.
 11. REFER TO SHEET C02.332 AND C02.333 FOR SANITARY AND WATER UTILITY DESIGN.
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 13. MAINTAIN MINIMUM SIX FEET OF COVER OVER WATER MAIN AND WATER SERVICES.

PGAV DESTINATIONS
REGINA QUINN ALBERS & VETS, INC.
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Accessibility for Persons with Disabilities
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ISSUE FOR PERMIT

UTILITY PLAN

DR	TPM	CK	JBL
PGAV	CLIENT	MCZ	

**ZOO NEW WEST ENTRANCE & OTTER EXHIBIT
MILWAUKEE COUNTY ZOO**
10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53232



Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
CITY CAMPUS 633 W. WISCONSIN AVE., SUITE 1000 MILWAUKEE, WI 53233

REVISIONS:
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**Z150-14452
(PHASE 2)
Z150-14453
Z150-14455**

SITE NO:
355
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TRANSFORMER. COORDINATE NEW ELECTRIC SERVICE WITH WE ENERGIES

3/4" HWS / HWR UNDERGROUND PIPE. REFER TO MECHANICAL DRAWINGS FOR DETAILS.

APPROXIMATE PROJECT LIMIT

RETAINING BASIN 21,000 SF

South line of the SW 1/4 of Section 29-7-21
 CITY OF MILWAUKEE
 CITY OF WEST ALLIS

ALTERNATE ROUTE FOR UTILITIES. REQUIRES DIRECTIONAL BORING UNDER EXISTING RAIL ROAD TRACKS. REFER TO ALTERNATE WATER PLAN PROFILE ON SHEET C02.334 AND ALTERNATE SANITARY PLAN AND PROFILE ON SHEET C02.335.

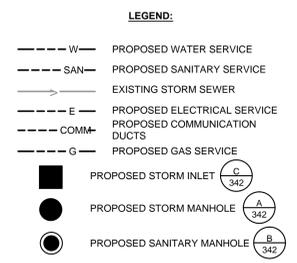
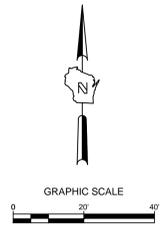
APPROXIMATE PROJECT LIMIT

REMOVE EXISTING GRASS / PAVEMENTS AS NECESSARY FOR UTILITY INSTALLATIONS. RESTORE TO EXISTING CONDITIONS FOLLOWING INSTALLATION.

REFER TO ELECTRICAL SITE UTILITY PLANS.

PROPOSED SILT FENCE.

SAN MH RIM EL = 759.72



- NOTES:**
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PGAV DESTINATIONS
 REGINA QUINN ALLEN & VETS, INC.
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 FAX: 414-443-4210

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ISSUE FOR PERMIT

ALTERNATE UTILITY PLAN

DR	TPM	CK	JBL
PGAV	75919-00	CLIENT	MCZ

**ZOO NEW WEST ENTRANCE & OTTER EXHIBIT
 MILWAUKEE COUNTY ZOO**
 10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53203



Milwaukee County Dept. of Administrative Services
 FACILITIES MANAGEMENT DIVISION
 Architectural, Engineering & Environmental Services
 CITY CAMPUS 633 W. WISCONSIN AVE., SUITE 1000 MILWAUKEE, WI 53203

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 B 02/24/15

DATE:
08/19/2015

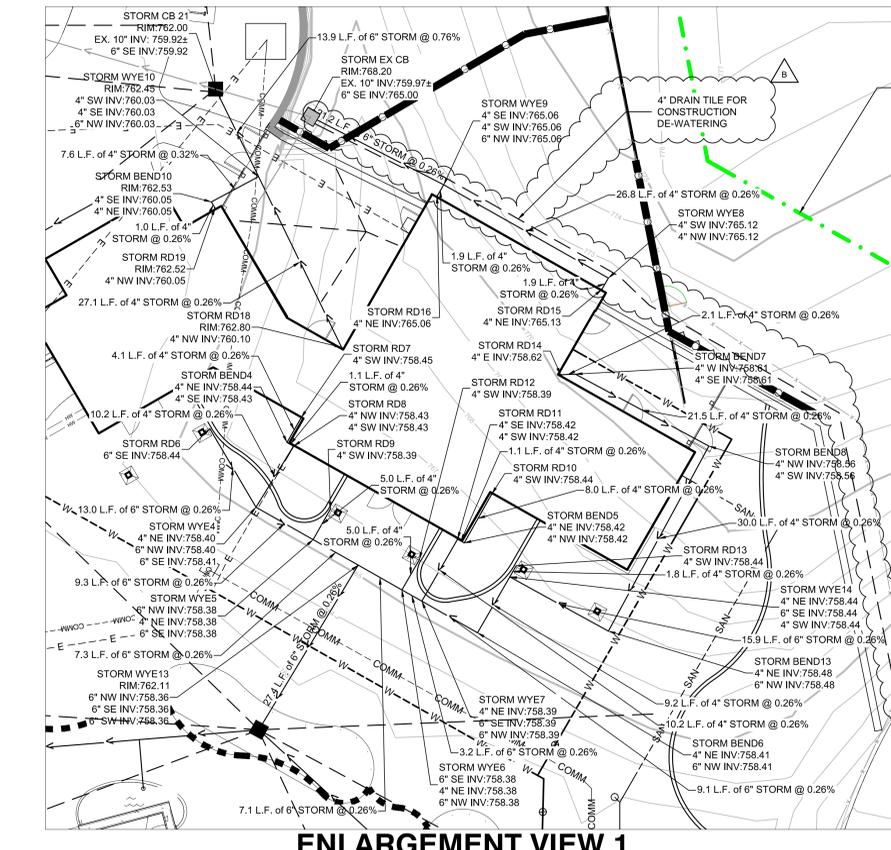
PROJECT:
**Z150-14452
 (PHASE 2)
 Z150-14455**

SITE NO:
355

BUILDING NO:



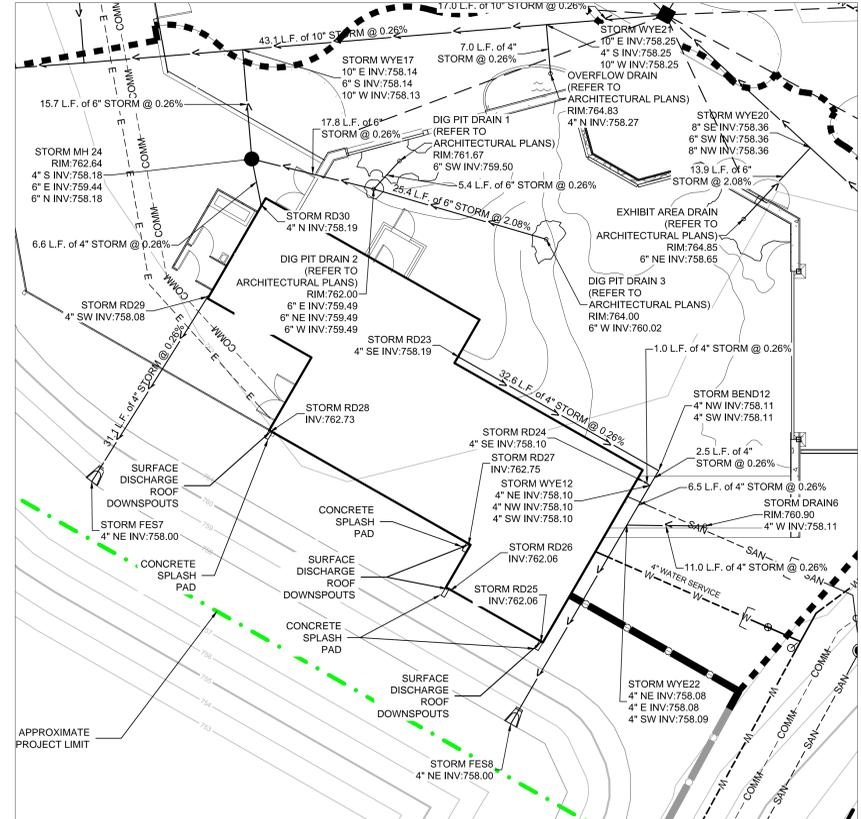
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ENLARGEMENT VIEW 1



SEE ENLARGEMENT VIEW 2



ENLARGEMENT VIEW 2

LEGEND:

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- SAN --- PROPOSED SANITARY SERVICE
- E --- EXISTING STORM SEWER
- E --- PROPOSED ELECTRICAL SERVICE
- COMM --- PROPOSED COMMUNICATION SERVICE
- G --- PROPOSED GAS SERVICE
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- DRAIN TILE

NOTES:

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11. REFER TO SHEET C02.331, C02.332 AND C02.333 FOR SANITARY AND WATER UTILITY DESIGN.
12. DRAWING IS BASED ON DESIGN PLANS AND CONSTRUCTION BULLETINS ISSUED FOR PHASE 1 - ZOO NEW (WEST) PARKING LOT. GENERAL CONTRACTOR TO VERIFY AS-BUILT CONDITIONS.
13. REFER TO ARCHITECTURAL PLANS FOR DIG PIT AND EXHIBIT AREA DRAIN DETAILS.
14. REFER TO LSS PLANS FOR OVERFLOW DRAIN DETAILS.
15. STORM SEWER THAT HAS LESS THAN 4 FEET OF COVER SHALL BE INSULATED WITH 2" THICK POLYURETHANE INSULATION BOARD.

PGA V DESTINATIONS
 REGINA QUINN ALBERS & VETS, INC.
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Thawing Design Intent
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ISSUE FOR PERMIT

UTILITY PLAN

DR	TPM	CK	JBL
PGA V	CLIENT	MCZ	

ZOO NEW WEST ENTRANCE & OTTER EXHIBIT
MILWAUKEE COUNTY ZOO
10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53226



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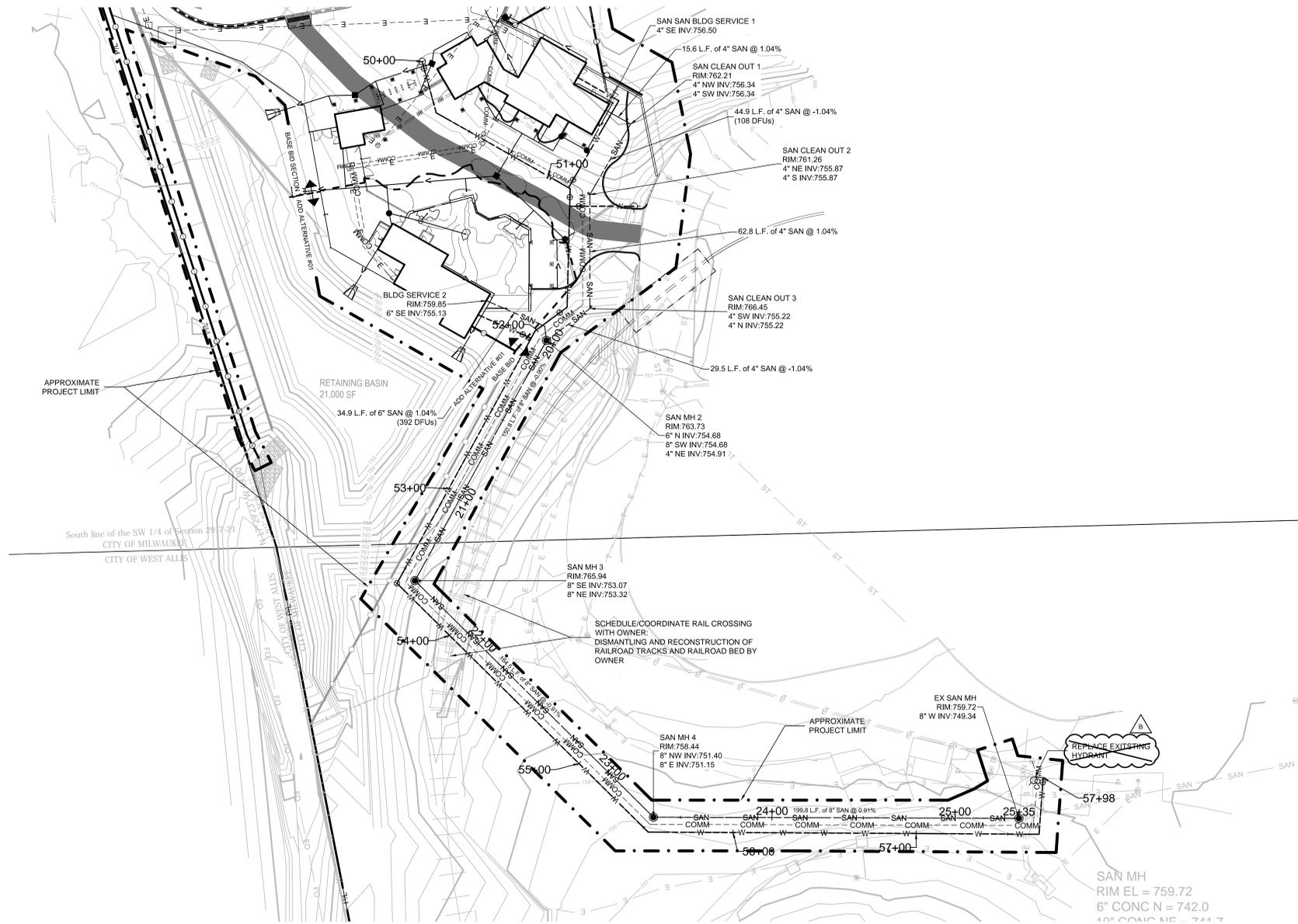
SITE NO:
355

BUILDING NO:



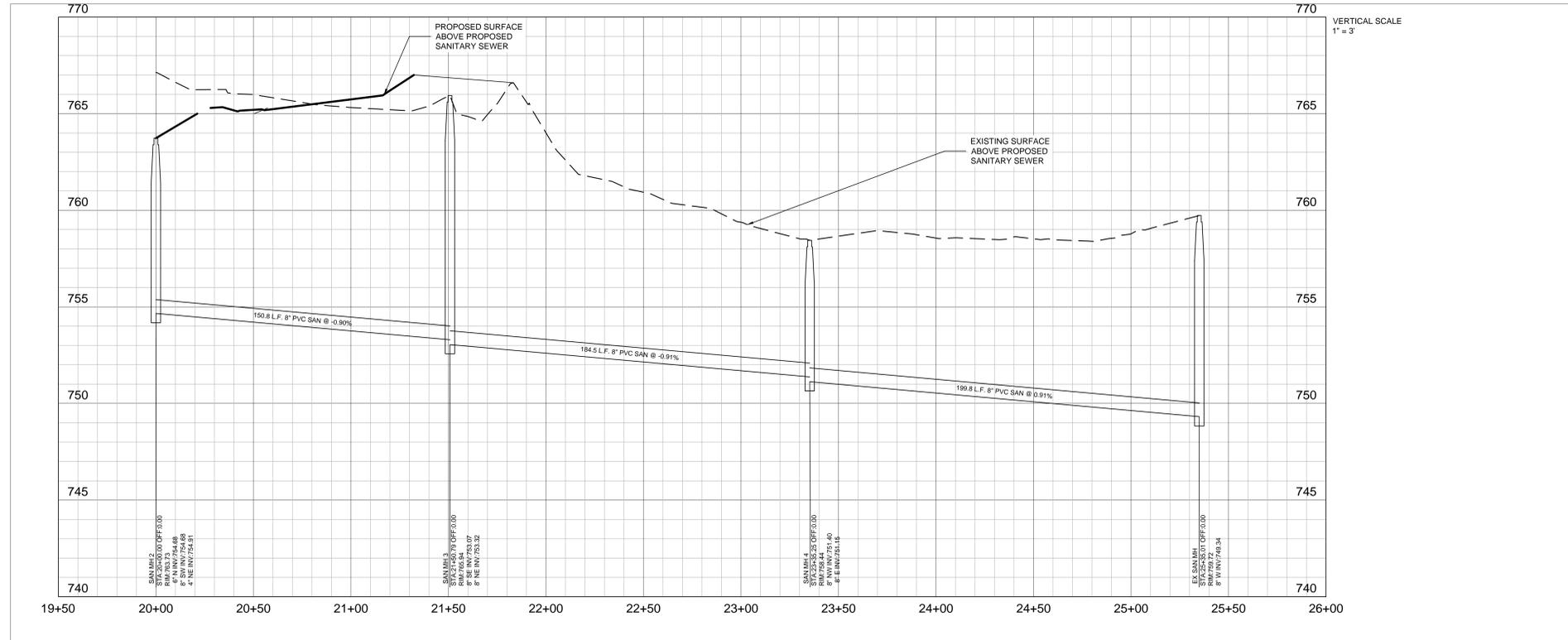
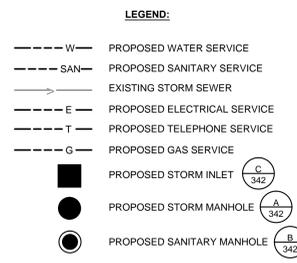
CALL DIGGERS HOTLINE
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PGAV DESTINATIONS
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SITE NO:
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BUILDING NO:

ISSUE FOR PERMIT

SANITARY PLAN & PROFILE

DR	TPM	CK	JBL
PGAV	75919-00	CLIENT	MCZ

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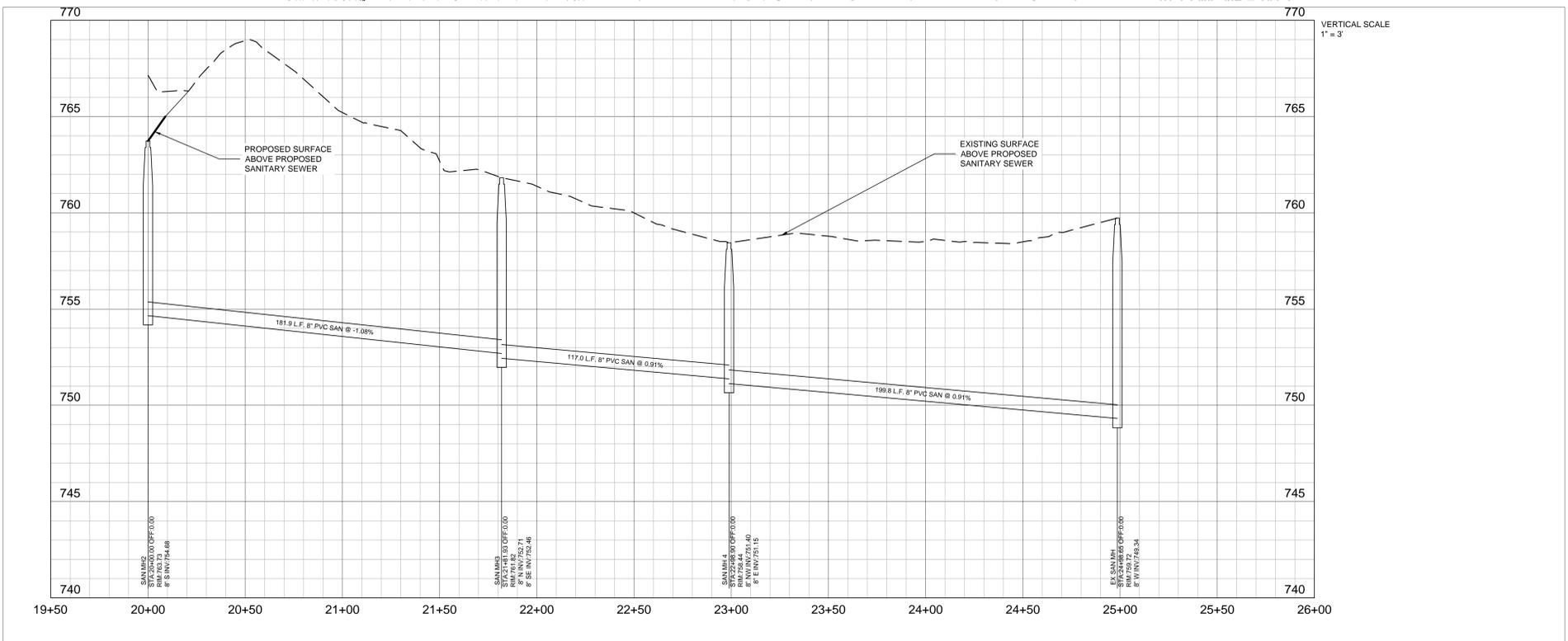
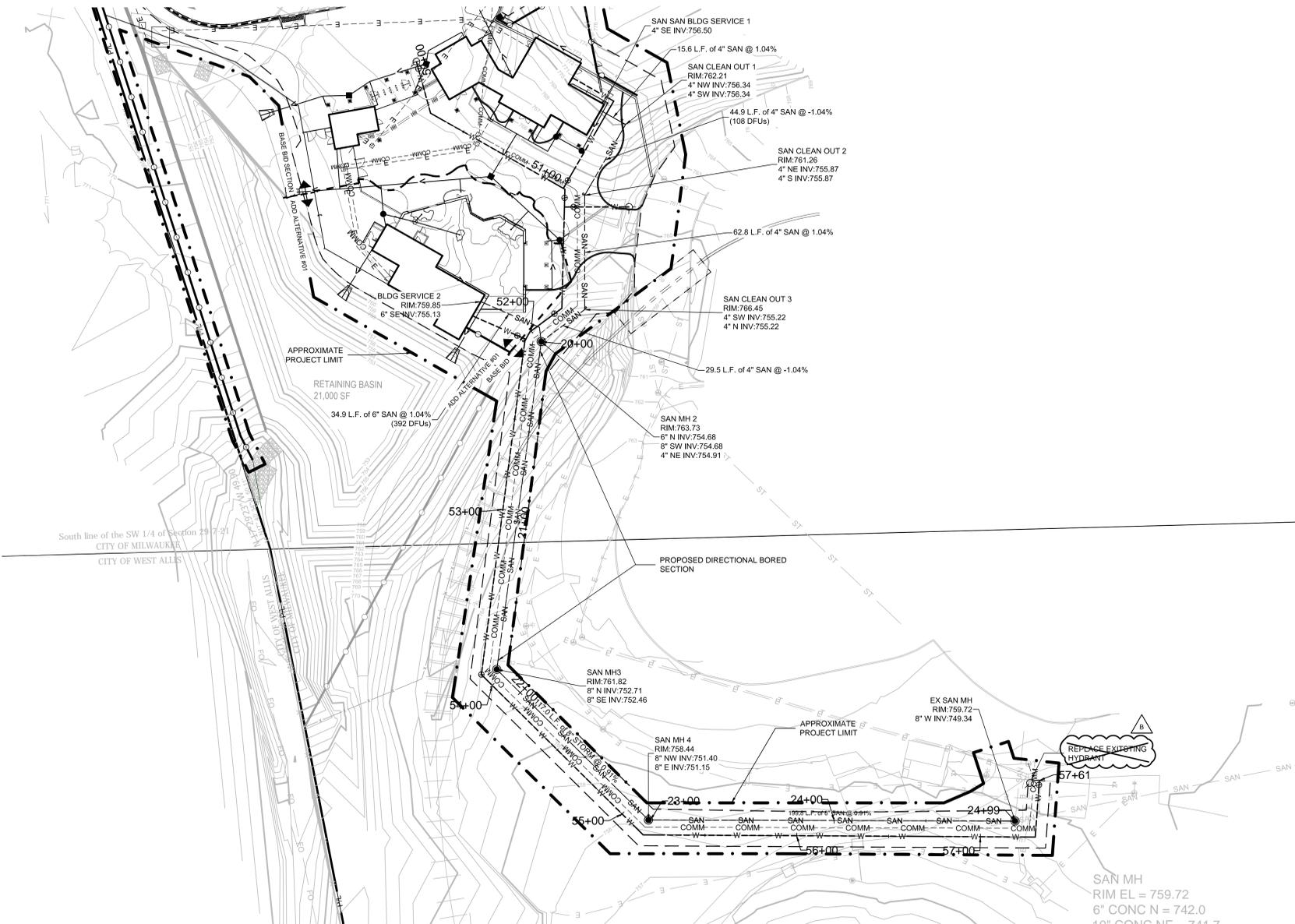
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CITY CAMPUS 633 W. WISCONSIN AVE., SUITE 1000 MILWAUKEE, WI 53203

TO OBTAIN LOCATIONS OF FACILITIES REFERENCED TO THIS RECORD



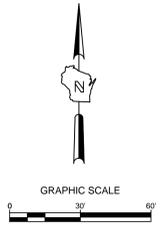
CALL DIGGERS' HOTLINE
1-800-242-5511
TOLL FREE
WE STRIVE TO PROVIDE THE MOST ACCURATE INFORMATION. PLEASE ADVISE US OF ANY CHANGES TO OUR SERVICE BEFORE YOU DIG.
MILW. AREA 259-1191

THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS MAP IS BASED ON FIELD MARKINGS AND INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED.



NOTES:

- THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS DRAWING IS BASED ON FIELD LOCATIONS AND/OR RECORDS FURNISHED BY MUNICIPALITIES AND UTILITY COMPANIES. THE LOCATION AND ACCURACY OF WHICH CANNOT BE GUARANTEED. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- VERIFY ACTUAL LOCATIONS AND INVERTS IN THE FIELD. ANY POTENTIAL ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- WORK TO BE COMPLETED IS INDICATED IN BOLD TYPE LINES AND EXISTING CONDITIONS ARE INDICATED BY LIGHT TYPE LINES.
- ELECTRONIC CIVIL FILES ARE AVAILABLE UPON WRITTEN REQUEST. DO NOT USE ELECTRONIC CIVIL FILES TO LAYOUT FOUNDATIONS, COLUMN LINES, LIGHT POLES, OR OTHER NON CIVIL SITE WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDING AND ARCHITECTURAL FEATURES.
- ALL UTILITIES WITHIN 5 FEET OF PAVED AREAS SHALL REQUIRE GRANULAR BACKFILL. SLURRY BACKFILL IS REQUIRED FOR ALL WORK IN PUBLIC RIGHT OF WAY.
- PRIVATE STORM INLETS IN PAVEMENT SHALL REQUIRE DRAIN TILE STUBS OF 10 FEET IN TWO DIRECTIONS FOR SUBDRAINAGE. RIM GRADE FOR STORM INLETS IN CURB AND GUTTER ARE FLOW LINE GRADES.
- WORK IN PUBLIC RIGHT OF WAY SHALL FOLLOW MATERIAL AND INSTALLATION REQUIREMENTS PER MUNICIPAL AND/OR COUNTY.
- PRIVATE STORM SEWER 12-INCH DIAMETER OR LARGER SHALL BE HDPE. BELOW 12-INCH DIAMETER SHALL BE PVC SDR-35 ASTM D3034. PRIVATE WATER MAIN SHALL BE CLASS 150 DR 18 PVC CONFORMING TO AWWA C-900. PRIVATE SANITARY SEWER SHALL BE PVC SDR-35 ASTM D3034.
- COORDINATE FINAL LOCATION AND DESIGN OF PRIVATE UTILITY SERVICES (ELECTRIC, GAS, PHONE, CABLE) WITH UTILITY COMPANIES.
- DRAWING IS BASED ON DESIGN PLANS AND CONSTRUCTION BULLETINS ISSUED FOR PHASE 1 - ZOO NEW (WEST) PARKING LOT. GENERAL CONTRACTOR TO VERIFY AS-BUILT CONDITIONS.



LEGEND:

- W --- PROPOSED WATER SERVICE
- SAN --- PROPOSED SANITARY SERVICE
- EX --- EXISTING STORM SEWER
- E --- PROPOSED ELECTRICAL SERVICE
- T --- PROPOSED TELEPHONE SERVICE
- G --- PROPOSED GAS SERVICE
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE

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RECIPIENT: QUINN ALBERS & VETS, INC.
2800 W. BLUEMOUND ROAD, SUITE 1000, MILWAUKEE, WI 53203
TEL: 414-443-7318 WWW.PGAV.COM

SIGMA GROUP
Single Source - Smart Solutions
www.sigmagroup.com
1300 West Canal Street
Milwaukee, WI 53233
Phone: 414-443-4200
Fax: 414-443-4210

Accessibility for Persons with Disabilities
The design criteria levels and standards critical to providing Access for Disabled Persons. Contractor shall provide verification and certification of Compliance with the applicable accessibility regulations.

Training Design Intent
The training scope of work shown on these drawings is for design intent. Details, sketches, drawings, picture references, material specifications, and notes on this document are for the express purpose of location, general identification, relationship, and design intent. Structural design, code compliance, manufacture, installation, and safety of operation are to be provided by the Contractor including engineering documentation required and sealed by a qualified Engineer licensed to practice in the authority having jurisdiction. The Architect/Designer's review of submittals is for the purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

ISSUE FOR PERMIT

ALTERNATE SANITARY PLAN & PROFILE

DR	TPM	CK	JBL
PGAV	75919-00	CLIENT	MCZ

ZOO NEW WEST ENTRANCE & OTTER EXHIBIT
MILWAUKEE COUNTY ZOO
10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53206



Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
CITY CAMPUS 633 W. WISCONSIN AVE., SUITE 1000 MILWAUKEE, WI 53203

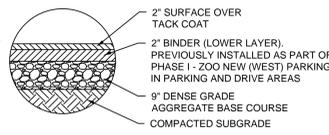
REVISIONS:
B 02/24/15

DATE:
08/19/2015
PROJECT:
Z150-14452
(PHASE 2)
Z150-14453
Z150-14455

SITE NO:
355
BUILDING NO:

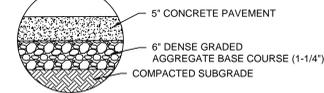
C02.333A

NOTES:
1. ONLY THE SECOND LIFT OF ASPHALT SHALL BE PLACED AS PART OF ZOO NEW WEST ENTRANCE & OTTER EXHIBIT



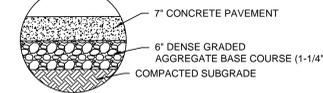
ASPHALT PAVEMENT SECTION

NOT TO SCALE



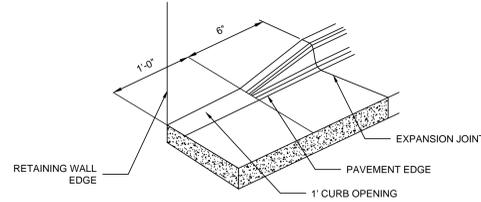
CONCRETE PAVEMENT SECTION (PLAZA)

NOT TO SCALE
SEE DETAILS K + J FOR REINFORCING AND JOINT DETAIL



CONCRETE PAVEMENT SECTION (HEAVY DUTY)

NOT TO SCALE
SEE DETAILS K + J FOR REINFORCING AND JOINT DETAIL



1' CURB OPENING

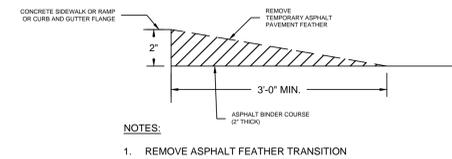
NOT TO SCALE

INTERIM CURB AND GUTTER INLET REMOVAL DETAIL

NOT TO SCALE

INTERIM PAVEMENT 2' CURB CUT REMOVAL DETAIL

NOT TO SCALE



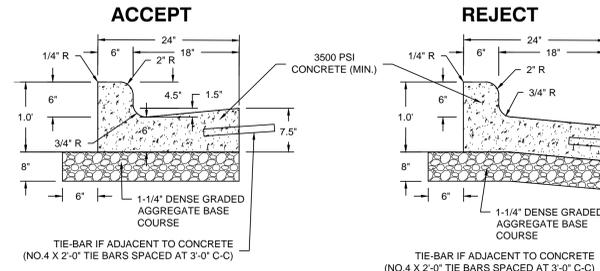
INTERIM PAVEMENT 2' CURB CUT REMOVAL DETAIL

NOT TO SCALE

ASPHALT FEATHER REMOVAL DETAIL

NOT TO SCALE

- NOTES:
1. REMOVE ASPHALT FEATHER TRANSITION AT ADA STALLS, CONCRETE SIDEWALK, RAMPS, AND CURB AND GUTTER FLANGES.

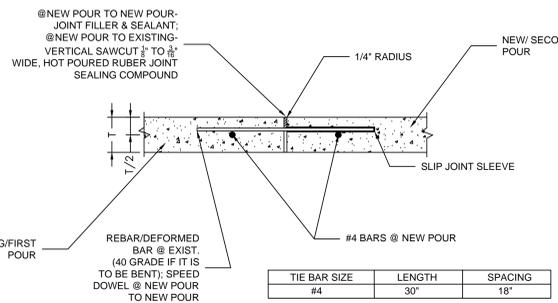


24\"/>

NOT TO SCALE

TRENCH DRAIN

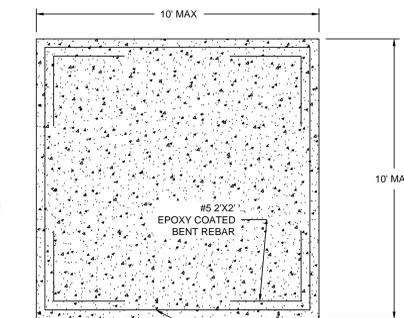
NOT TO SCALE



CONC. PAVEMENT CONSTRUCTION JOINT DETAIL (SLIP-JOINT)

NOT TO SCALE

TIE BAR SIZE	LENGTH	SPACING
#4	30"	18"

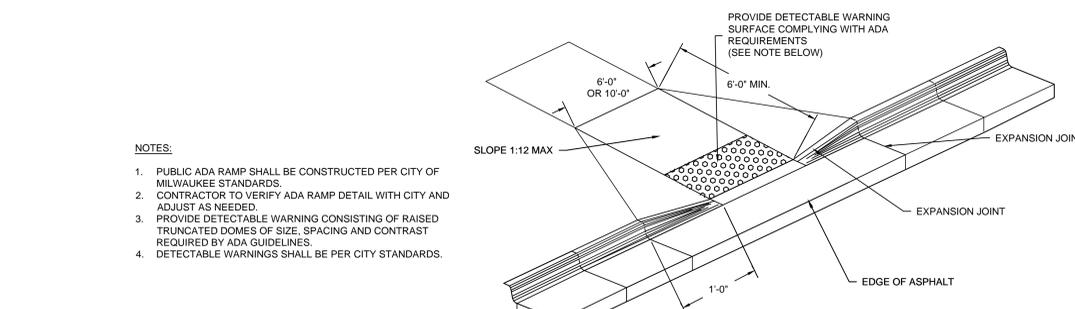


CONCRETE REINFORCEMENT DETAIL (PLAZA)

NOT TO SCALE

CONCRETE CURB DETAIL

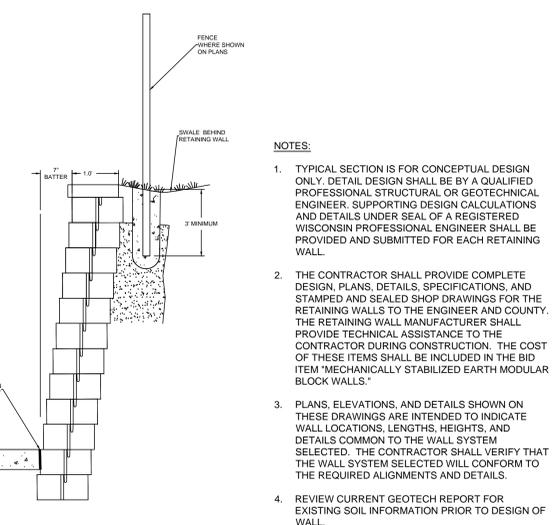
NOT TO SCALE



ADA CONCRETE RAMP

NOT TO SCALE

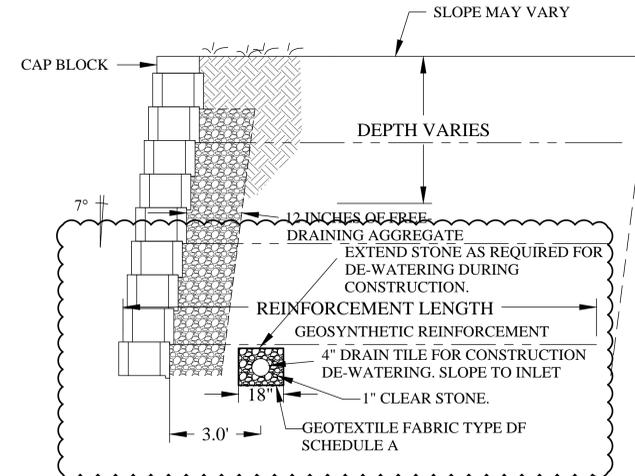
- NOTES:
1. PUBLIC ADA RAMP SHALL BE CONSTRUCTED PER CITY OF MILWAUKEE STANDARDS.
 2. CONTRACTOR TO VERIFY ADA RAMP DETAIL WITH CITY AND ADJUST AS NEEDED.
 3. PROVIDE DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES OF SIZE, SPACING AND CONTRAST REQUIRED BY ADA GUIDELINES.
 4. DETECTABLE WARNINGS SHALL BE PER CITY STANDARDS.



SEGMENTAL BLOCK WALL (TYP.)

NOT TO SCALE

- NOTES:
1. TYPICAL SECTION IS FOR CONCEPTUAL DESIGN ONLY. DETAIL DESIGN SHALL BE BY A QUALIFIED PROFESSIONAL STRUCTURAL OR GEOTECHNICAL ENGINEER, SUPPORTING DESIGN CALCULATIONS AND DETAILS UNDER SEAL OF A REGISTERED WISCONSIN PROFESSIONAL ENGINEER SHALL BE PROVIDED AND SUBMITTED FOR EACH RETAINING WALL.
 2. THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND STAMPED AND SEALED SHOP DRAWINGS FOR THE RETAINING WALLS TO THE ENGINEER AND COUNTY. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "MECHANICALLY STABILIZED EARTH MODULAR BLOCK WALLS."
 3. PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.
 4. REVIEW CURRENT GEOTECH REPORT FOR EXISTING SOIL INFORMATION PRIOR TO DESIGN OF WALL.



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Single Source - Smart Solutions
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1300 West Canal Street
Milwaukee, WI 53233
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Fax: 414-443-4218

Accessibility for Persons with Disabilities
This drawing conforms to and is intended to provide Access for Disabled Persons. Contractor shall provide verification and certification of Compliance with the applicable accessibility regulations.

Tracing Design Intent
The following sample of work shown on these drawings is for design intent. Details, sketches, drawings, picture references, material specifications, and notes on this document are for the express purpose of location, general identification, adjacency, and design intent. Structural design, code compliance, manufacture, installation, and safety of operation are to be provided by the Contractor including engineering documentation signed and sealed by a qualified Engineer licensed to practice in the jurisdiction of the project.

Architect/Engineer's review of submittals is for the purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

DATE: 08/19/2015
PROJECT: Z150-14452 (PHASE 2)
Z150-14453
Z150-14455
SITE NO: 355
BUILDING NO:

ISSUE FOR PERMIT

DETAILS

DR	TPM	CK	JBL
PGAV	CLIENT	MCZ	

ZOO NEW WEST ENTRANCE & OTTER EXHIBIT
MILWAUKEE COUNTY ZOO
10001 W. BLUEMOUND ROAD, MILWAUKEE, WISCONSIN 53226

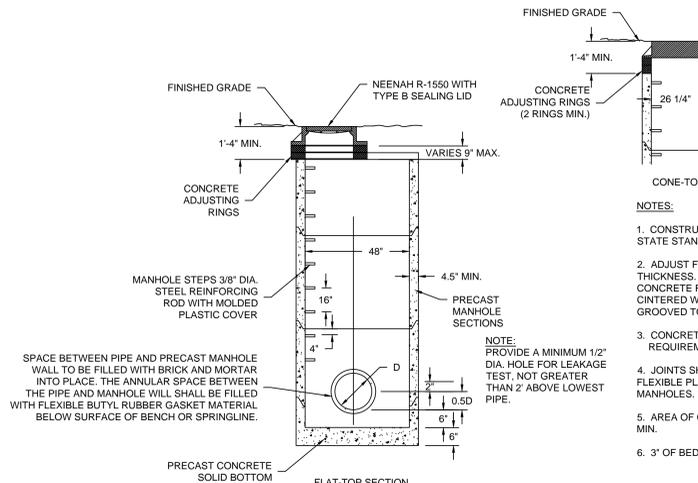


Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
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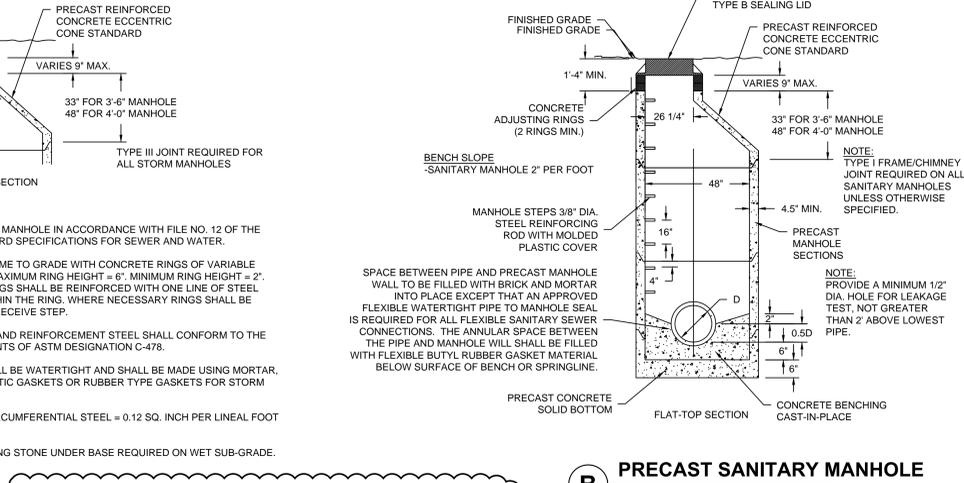
REVISIONS:
B 02/24/16

C02.341

I:\PGAV Destinations\14930 Bliffert Parking Phase 1 Design\060 CAD\C - Civil\1500 Production - Civil Plans PH2\506 - Details\14930-Details PH2.dwg



A PRECAST STORM MANHOLE
NOT TO SCALE



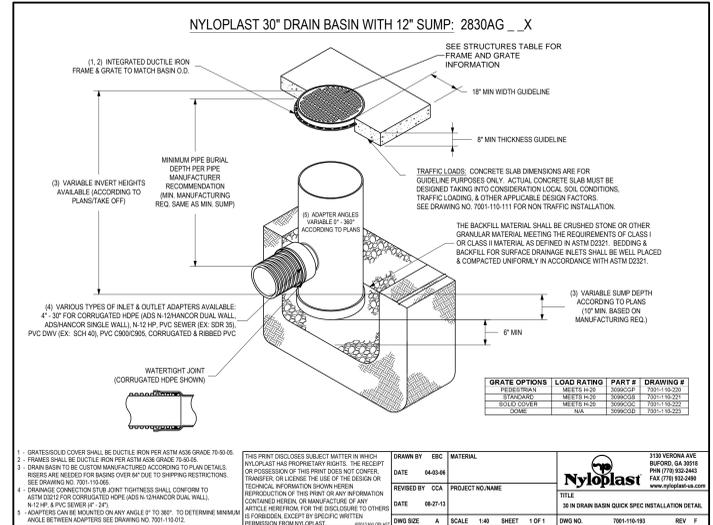
B PRECAST SANITARY MANHOLE
NOT TO SCALE

- NOTES:**
- CONSTRUCT MANHOLE IN ACCORDANCE WITH FILE NO. 12 OF THE STATE STANDARD SPECIFICATIONS FOR SEWER AND WATER.
 - ADJUST FRAME TO GRADE WITH CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT = 6". MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY RINGS SHALL BE GROOVED TO RECEIVE STEP.
 - CONCRETE AND REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION C-478.
 - JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING MORTAR, FLEXIBLE PLASTIC GASKETS OR RUBBER TYPE GASKETS FOR STORM MANHOLES.
 - AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ. INCH PER LINEAL FOOT MIN.
 - 3" OF BEDDING STONE UNDER BASE REQUIRED ON WET SUB-GRADE.
 - ALL SANITARY MANHOLES SHALL BE PROVIDED WITH EXTERNAL CHIMNEY SEALS AND SELF-SEALING LIDS WITH CONCEALED PICK-HOLES.

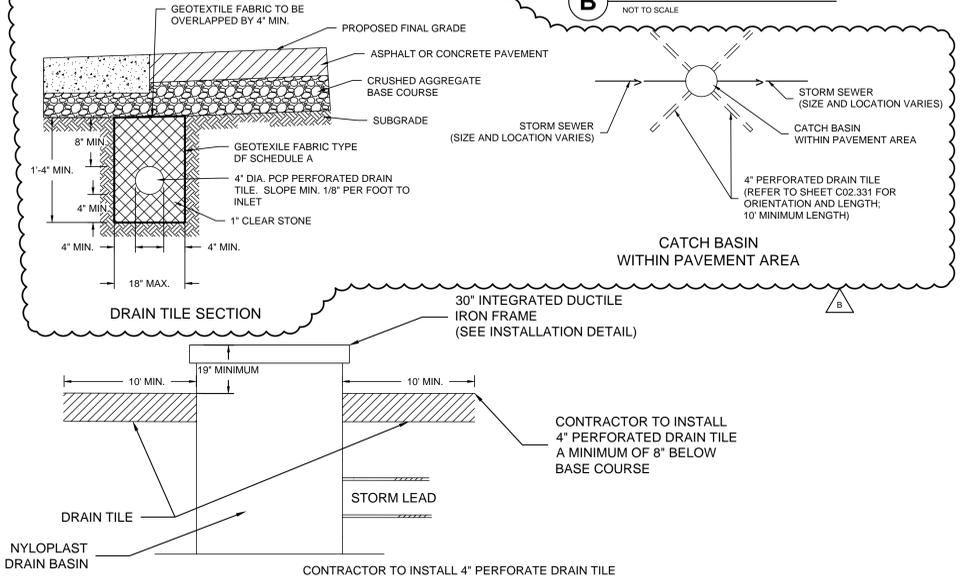
MANHOLE SIZES (UNLESS OTHERWISE NOTED)

PIPE DIA. [D]	MANHOLE DIA.	WALL THICKNESS
8" THRU 27"	3'-6"	4 1/2"
30"	4'-0"	5"
36"	5'-0"	6"
42"	6'-0"	7"

* ALL PUBLIC MANHOLES SHALL BE A MINIMUM OF 48" IN DIAMETER.

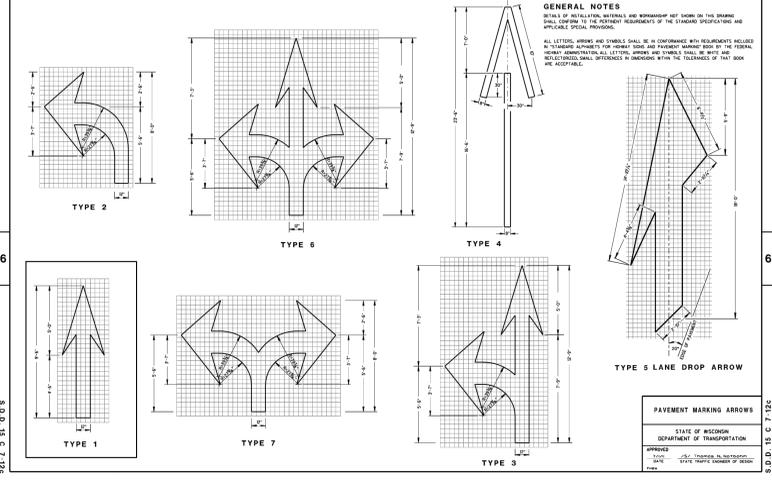


C CATCH BASIN
NOT TO SCALE



D DRAIN TILE ARRANGEMENT
NOT TO SCALE

15C7 sheet c: Pavement Marking Arrows

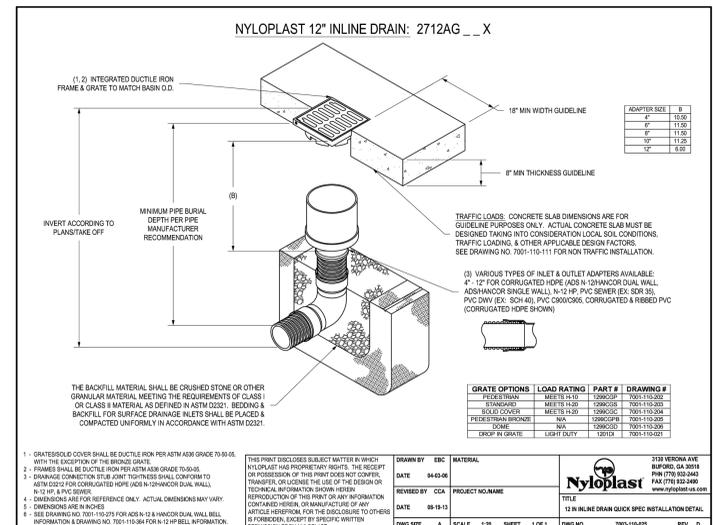


E PAVEMENT MARKING - DIRECTIONAL ARROWS
NOT TO SCALE

STRUCTURE TABLE

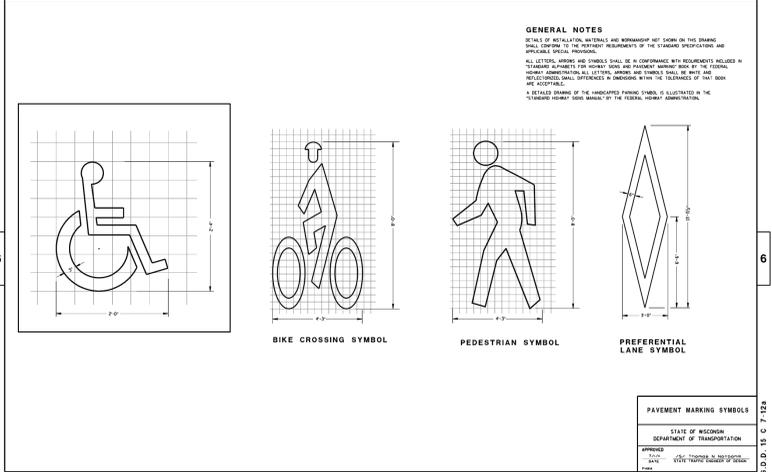
INTEGRATED DUCTILE IRON FRAME

STRUCTURE	DIAMETER	FRAME & GRATE
CB 20	30"	DOMED
CB 21	30"	DOMED
CB 23	30"	DOMED
CB 24	12"	PEDESTRIAN
CB 26	30"	DOMED
MH 23	48"	PEDESTRIAN
MH 24	48"	PEDESTRIAN



F CATCH BASIN
NOT TO SCALE

15C7 sheet a: Pavement Marking Symbols



G PAVEMENT MARKING - HANDICAP SIGN
NOT TO SCALE



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www.sigmagroup.com
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Milwaukee, WI 53226
Phone: 414-443-4200
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Access for Persons with Disabilities
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Thruway Design Inc.
The following scope of work shown on these drawings is for design intent. Questions, sketches, drawings, picture references, material specifications, and notes on this document are for the express purpose of design intent. Structural design, code compliance, construction, installation, and safety of operation are to be provided by the Contractor including engineering, accuracy, timing, and quality.

Access for Persons with Disabilities
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ISSUE FOR PERMIT

DETAILS

DR	TPM	CK	JBL
PGAV	CLIENT	MCZ	

REVISIONS:
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DATE:
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