

ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**Design & Construct Roadway and Parking Lot
Deutschheim State Historic Site Pelster House Barn
Hermann, Missouri
PROJECT NO.: X2325-01**

Bid Opening Date: 1:30 PM, January 6, 2026 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 007300 – Supplemental Conditions

- a. REVISE section 2.0, Contract Specialist as follows:

Contract Specialist: Mandy Roberson
Division of Facilities, Management, Design and Construction
301 West High Street, Room 730
Jefferson City, Missouri 65101
Telephone: (573) 522-0074
Email: Mandy.Roberson@oa.mo.gov

2. Section 026250 – Erosion Control – Storm Water Pollution Prevention

- a. ADD Section 026250 Erosion Control – Storm Water Pollution Prevention in its entirety (attached). PLEASE NOTE: Mulch used for storm water pollution prevention may stay on site, excess mulch must be removed from site and disposed of legally.

3. Section 013300 – Submittals

- a. ADD SWPPP submittal to subsection 3.1.A as follows:

<u>SPEC SECTION</u>	<u>TITLE</u>	<u>CATEGORY</u>
026250	SWPPP	Construction Schedule

4. Section 311000 – Site Clearing

- a. REVISE Section 3.03.D as follows:

D. Unless method of demarcation for vegetation clearing areas are otherwise approved by the owner, install substantial and highly visible temporary fences at least 4 feet high to prevent inadvertent damage to trees greater than 12-inch diameter to remain.

DRAWINGS CHANGES:

1. Sheet C-502 - Details

- a. ADD "Installation Instructions for Gunnison Vault Restroom and Single Vault Detail." These attachments will supplement the CXT Precast Products Gunnison Left Hand details included in Sheet C-502. The contractor shall comply with all the requirements of

these documents. PLEASE NOTE: CXT will install the vault toilet, general contractor shall get the site ready for installation.

2. Sheet C-501 - Details

a. Detail 6, ADD Note 5 as follows:

5. Stripping and access symbols shall be blue Acrylic Pavement Marking Paint in accordance with MHTC Section 1048, Pavement Marking Materials. All pavement marking materials shall be installed in accordance with the manufacturer's recommendations.

GENERAL COMMENTS:

1. The Pre-Bid Meeting was held December 11, 2025, followed by a walk-through of the project site. The sign-in sheet is attached.
2. Bidders desiring to perform a site inspection should contact DNR State Park's staff Daniel Brigman (660) 888-1474, Daniel.Brigman@dnr.mo.gov, or Lori Cody (573) 548-2165, Lori.Cody@dnr.mo.gov to schedule a time to inspect the site.
3. Please contact Mandy Roberson, Contract Specialist, at (573) 522-0074, Mandy.Roberson@oa.mo.gov for questions about bidding procedures, MBE/WBE/SDVE Goals, and other submittal requirements.
4. The deadline for technical questions was Wednesday, December 17, 2025, at noon (12 pm).
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
7. Current Planholders list is available online at: [X2325-01 Construct Roadway & Parking Lot-Deutschheim State Historic Site-Pelster House Barn :: Plan Holders :: State of Missouri Office of Administration](#).
8. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, (573) 446-7768 to get plans and specifications.
9. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled. Failure to do so will result in rejection of the bid.**
10. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 0%/0%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

ATTACHMENTS:

1. X2335-01 Pre-Bid Meeting Sign-In Sheet
2. Section 026250 Erosion Control – Storm Water Pollution Prevention
3. Gunnison Vault Restroom Installation Suggestions and Single Vault Detail


December 18, 2025

END ADDENDUM NO. 1

Pre-Bid Meeting Attendance Sheet
Design & Construct Roadway and Parking Lot
Deutschheim State Historic Site Pelster House Barn
Site: 38.492741, -91.272889, Hermann, MO
Project No. X2325-01
10:00 AM, December 11, 2025

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
Scott Zeller, ARPA PM	OA-FMDC	-	573-680-8138	Scott.Zeller@oa.mo.gov
JJ Gates, Section Leader Project Manager	DNR State Parks	-	573-522-6390	JJ.Gates@dnr.mo.gov
Melanie Robinson-Smith	DNR State Parks, Natural Res. Manager	-	573-449-7402	Melanie.Robinson-Smith@dnr.mo.gov
Paul Girouard	OA-FMDC Contract Specialist	-	573-751-4797	Paul.Girouard@oa.mo.gov
Jeff Bertel, A/E Representative	Reitz & Jens, Inc.	-	314-581-8488	jbertel@reitzjens.com
Carl Haley, Construction Administrator	OA-FMDC	-	573-526-0473 573-645-7834	Carl.Haley@oa.mo.gov

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10:00 AM, December 11, 2025

Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
Lori Cody 	DNR-Superintendent	-	573-486-2200	Lori.Cody@dnr.mo.gov
Michael Ohnersorgen (Dr. Mike)	DNR State Parks	-	573-751-8528	Michael.Ohnersorgen@dnr.mo.gov
Melanie Robinson-Smith	DNR State Parks, Natural Resource Manager	-	573-449-7402	Melanie.Robinson-Smith@dnr.mo.gov
Dustin Webb	DNR State Parks, Natural Resource Manager	-	660-558-4954	Dustin.Webb@dnr.mo.gov
Dawn Scott	State Historic Preservation Office (SHPO), Program Director	-	573-751-7857	Dawn.Scott@dnr.mo.gov

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Name & Title	Company Name Type of Contracting	MBE/WBE/ SDVE Status	Phone	E-Mail Address
Jason Kolks CI coordinator	GA-FMDC		573-508- 3247	Jason.Kolks@ga.mo.gov
Andrew Elsperman	Spencer contracting		636-649- 9060	andy.elsperman@spencercontracting.com
Matt Heaney MSP - PM	MSP		573-694-8215	matth.heaney@dnr.mo.gov
Alan Laboube DSP	DMR - DSP		573-690-1622	Alan.Laboube@dnr.mo.gov
Spencer VanBibber Estimator	Bloomfield Excavating		573-263- 8159	sevadblex.com

SECTION 026250-EROSION CONTROL/STORM WATER POLLUTION PREVENTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Installation of temporary water pollution control measures to prevent discharge of pollutants such as chemicals, fuels, lubricants, bitumen, raw sewage, or other harmful material from the project.
- B. Other related documents.

1.2 GENERAL

- A. The Contractor shall manage his operations to control water pollution in accordance with this specification and applicable State regulations. Construction of permanent drainage facilities and other contract work, contributing to control of erosion, shall be scheduled at the earliest practicable time.
- B. The Contractor shall furnish, install, maintain, and remove temporary erosion control measures. The Contractor shall prevent silt or polluted storm water discharge from the site.
- C. The Owner's Representative may require installation of additional erosion control facilities, by the Contractor, if in the sole opinion of the Owner's Representative, the Contractor's efforts are inadequate.

1.3 DEFINITIONS

- A. General Permit: The General Permit for storm water discharges associated with construction activity (Land Disturbance General Permit No. MO-R100038) issued to FMDC as a blanket permit by the Missouri Department of Natural Resources, Water Pollution Program.
- B. Storm Water Pollution Prevention Plan (SWPPP): A plan required by the General Permit that includes site map(s), an identification of construction/contractor activities that could cause pollutants in the storm water, and a description of measures or practices to control these pollutants.
- C. Best Management Practice (BMP): Any program, technology, process, siting criteria, operating method, measure, or device that controls, prevents, removes, or reduces pollution.
- D. Temporary Berm: A temporary ridge of compacted soil, with or without a shallow ditch, constructed at the top of slopes or transverse to the centerline of a slope. The berm diverts storm runoff to temporary outlets to discharge water with minimal erosion.
- E. Temporary Slope Drain: A temporary facility used to carry water down a slope.

- F. Ditch Check: An obstruction placed at frequent intervals across ditches, creating small ponds to cause sediment to settle and be contained.
- G. Sediment Basin: An excavated or dammed storage area to trap and store sediment and prevent the discharge of silt.
- H. Temporary Seeding and Mulching: Placement of a quick ground cover to reduce erosion in areas expected to be re-disturbed.
- I. Straw Bales: Standard agricultural bales used to filter the flow of water, trap, deposit sediment, and/or divert water.
- J. Silt Fence: A geotextile barrier fence to contain sediment by removing suspended particles from water passing through the fence.
- K. Temporary Pipe: Conduit utilized to carry water under haul roads, silt fences, etc., and prevent equipment from direct contact with water when crossing an active or intermittent stream.
- L. Sediment Removal: Removal of accumulated sediment to restore the efficiency of sediment control features.

1.4 SUBMITTALS

- A. The Contractor shall submit his proposed "Erosion Control Plan (SWPPP)" for review and approval by the Owner's Representative. Approval of the plan does not relieve the Contractor of his contractual responsibility to prevent the discharge of pollutants into the receiving drainage ways.
- B. The Contractor shall review the Storm Water Pollution Prevention Plan (SWPPP) provided by the Designer, make appropriate field corrections to the document, and submit final corrected copies of the SWPPP to the Owner and facility.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Temporary slope drains: Stone, concrete or asphalt gutters, half-round pipe, metal pipe, plastic pipe or flexible rubber pipe.
- B. Ditch Checks:
 - 1. Rock ditch checks: 2" to 3" clean gravel or limestone.
 - 2. Straw bale ditch checks: Rectangular wheat straw bales in good condition. Other foliage may be substituted for straw in accordance with MoDOT 802.2.1.
 - 3. Silt fence ditch checks: Geotextile meeting the requirements of this specification.
- C. Riprap for Temporary Erosion Control: Type 1 Rock Blanket conforming to MoDOT 611.32.
- D. Pipe: Corrugated metal (16 Ga.) or ADS N12 Corrugated Plastic.

E. Temporary Seeding:

1. December 1 to March 1: 50 lbs oats/acre.
2. March 1 to December 1: 50 lbs cereal rye or wheat.
3. Mulch shall be wheat straw.

F. Wire Supported and Self Supporting Silt Fence:

1. Geotextile Fabric

- a. Fibers used in geotextiles shall consist of longchain synthetic polymers, composed of at least 85 percent by weight polyolefins, polyesters, or polyamides. They shall be formed into a network such that the filaments or yarns retain dimensional stability relative to each other, including selvages.
- b. The geotextile shall be free of any treatment or coating which might adversely alter its physical properties after installation.
- c. Geotextile shall be furnished in 36" width rolls.
- d. Geotextile rolls shall be furnished with suitable wrapping for protection against moisture and extended ultraviolet exposure.
- e. Each roll shall be labeled or tagged to provide product identification sufficient for inventory.
- f. Rolls shall be stored in a manner, which protects them from the elements.
- g. Geotextile shall conform to the following:

TABLE 1
PHYSICAL REQUIREMENTS¹ FOR
TEMPORARY SILT FENCE GEOTEXTILES

<u>Property</u>	<u>Test Method</u>	<u>Wire Fence Supported Requirements</u>	<u>Self Supported Requirements</u>
Tensile Strength, Lbs.	ASTM D4632	90 Minimum ²	90 Minimum ²
Elongation at 50% Minimum			
Tensile Strength (45 Lbs.)	ASTM D4632	N/A	50 Maximum
Filtering Efficiency, %	VTM-51 ³	75	75
Flow Rate gal/ft/min	VTM-51 ³	0.3	0.3
Ultraviolet Degradation at 500 hrs.	ASTM D4355	Minimum 70% Strength Retained	Minimum 70% Strength Retained

1. All numerical values represent minimum average roll value.
 - A. When tested in any principal direction.
 - B. Virginia DOT test method.

2. Posts: Wood, steel or synthetic posts may be used. Posts shall have a minimum length of 36" plus embedment depth (24" min.). Posts shall have sufficient strength to resist damage during installation and to support applied loads.
3. Support Fence: Wire or other support fence shall be at least 24" high and strong enough to support applied loads.
4. Prefabricated Fence: Prefabricated fence systems may be used provided they meet all of the above material requirements.

2.2 CERTIFICATION AND SAMPLING:

- A. The Contractor shall furnish a manufacturer's certification, stating the material conforms to the requirements of these specifications.
- B. The certification shall include, or have attached, typical results of tests for the specified properties, representative of the materials supplied.
- C. The Owner's Representative reserves the right to sample and test any material offered for use.

PART 3 - EXECUTION

3.1 GENERAL REQUIREMENTS

- A. The Owner's Representative may limit the surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow, or fill operations.
- B. The Owner's Representative may direct the Contractor to provide immediate permanent or temporary pollution control measures to prevent contamination of adjacent streams, other watercourses, lakes, ponds, or other areas of water impoundment. Work may involve the construction of temporary berms, dikes, dams, sediment basins, slope drains, use of temporary mulches, seeding or other control devices or methods to control erosion.
- C. The Contractor shall incorporate permanent erosion control features at the earliest practicable time.
- D. The Contractor at no additional cost shall provide temporary pollution control measures needed to control erosion during normal construction practices to the Owner.
- E. Contractor shall designate trained and knowledgeable personnel to coordinate all SWPPP activities and identify these personnel to the Owner's Representative during construction. Missouri Department of Natural Resources offers training classes in Erosion Control free of charge in Jefferson City. Contact for training: David Goggins at (573) 751-2556.
- F. The SWPPP is a living document. As the conditions of the site changes, the SWPPP should be updated by the Contractor.
- G. The SWPPP is subject to random inspection by the Owner. The SWPPP should be kept up to date by the Contractor and available for inspection at any time.

- H. If Contractor determines that any BMP should need modification, the changes shall be dated and documented, and all necessary field changes performed.

3.2 LIMITATION OF AREA DISTURBED:

- A. The Contractor's operations shall be scheduled to install permanent erosion control features immediately after clearing and grubbing, and grading.
- B. The surface area of erodible earth material exposed at one time by clearing and grubbing, excavating, fill, or borrow shall not exceed 200,000 square feet without written approval of the Owner's Representative.
- C. The Owner's Representative may limit the area of clearing and grubbing, excavation, borrow, and embankment operations commensurate with the Contractor's capability and progress in completing the finish grading, mulching, seeding, and other such permanent pollution control measures current.
- D. The Contractor shall respond to seasonal variations. If required by weather, temporary erosion control measures shall be taken immediately.

3.3 RIVERS, STREAMS, AND IMPOUNDMENTS:

- A. Construction operations in rivers, streams, and impoundments shall be restricted to areas, which must be entered for the construction of temporary or permanent structures.
- B. Rivers, streams, and impoundments shall be promptly cleared of falsework, piling, debris, or other obstructions as soon as practical.
- C. Frequent fording of live streams with construction equipment will not be permitted.
- D. Temporary bridges or other structures shall be used when the Contractor's operations include cycling of equipment across streams, rivers, or impoundments.
- E. Mechanized equipment shall not be operated in flowing streams except as required to construct channel changes and temporary or permanent structures.

3.4 BORROW AND WASTE AREAS

- A. Material pits other than commercially operated sources and material spoil areas shall be subject to pollution control measures of this specification. An offsite location does not relieve the Contractor of his contractual obligation to prevent the introduction of silt or other pollutants into receiving waterways.

3.5 CONFLICT WITH FEDERAL, STATE OR LOCAL LAWS, RULES OR REGULATIONS

- A. In case of conflict between these requirements and pollution control laws, rules, or regulations or other Federal, State or local agencies, the more restrictive laws, rules, or regulations shall apply.

3.6 TEMPORARY BERMS

- A. Temporary berms shall be constructed at the top of newly constructed slopes and / or transverse to grade to divert runoff and prevent erosion until permanent controls are installed and / or slopes are stabilized. Two types of temporary berms will be utilized under conditions listed below:
 - 1. Type “A” Berm: At the end of each day’s operations on embankments.
 - 2. Type “B” Berm: At shut down of embankment operations for the winter season or discontinuation of work at the direction of, or with concurrence of the Owner’s Representative.
- B. Interceptor berms transverse to centerline may be used when temporary berms are installed on grades in excess of 1 percent and at locations where water is to be carried down the fill slope by temporary or permanent slope drains.
- C. Construction Requirements:
 - 1. Type A Berms shall be constructed to the approximate dimensions indicated on the drawings. Berms shall be machine compacted with a minimum of one pass over the entire width with a bulldozer tread, grader wheel, or other approved method.
 - 2. Type “B” Berms shall be constructed to the approximate dimensions indicated on the drawings. These berms shall be machine compacted with a minimum of three passes over the entire width with a bulldozer tread, grader wheel, or other approved method.
 - 3. Type “A” and Type “B” Berms must drain to a compacted outlet at a slope drain. The top width of these berms may be wider and the side slopes flatter on transverse berms to allow equipment to pass over these berms with a minimal disruption.

3.7 TEMPORARY SLOPE DRAINS

- A. General:
 - 1. Temporary slope drains are required to concentrate water flowing down a slope prior to installation of permanent facilities. Slope drains shall be placed at approximately 500-foot intervals or as directed by the Owner’s Representative.
- B. General Requirements
 - 1. The Contractor shall install a temporary silt fence in locations shown on the drawings, around inlets that accept flow carrying silt, and other locations necessary to prevent the discharge of silt from the site.
 - 2. Installation shall conform to the drawing detail.
 - 3. Fence construction shall be adequate to handle the stress from hydraulic and sediment loading.
- C. Construction Requirements:

1. Temporary slope drains shall be anchored to prevent disruption by the force of the water flowing in the drain.
2. The inlet end shall be constructed to channel water into the drain.
3. The outlet ends of these temporary slope drains shall have some means of dissipating the energy of this water to reduce erosion downstream.
4. Unless otherwise directed by the Owner's Representative, temporary slope drains shall be removed when no longer necessary and the site restored to match the surroundings.

3.8 DITCH CHECKS

A. General:

1. Rock ditch checks may be used on ditches with grades of 4 percent or less.
2. Straw bale ditch checks may be used on all ditches.
 - a. The silt fence fabric may be eliminated for grades of 2 percent or less.
3. Silt fence ditch check may be used on all ditches.
4. A straw bale ditch check or a silt fence ditch check may be used in lieu of a sediment basin for drainage areas less than two acres. The basin shall have a volume of 1,815 CF per acre of contributing drainage area.

B. Construction Requirements:

1. Construct rock ditch checks in accordance with the drawing detail.
 - a. Achieve complete coverage of the ditch or swale and insure the center of the check is lower than the edges.
2. Construct straw bale ditch checks in accordance with the drawing detail.
3. Construct silt fence ditch checks in accordance with the drawing detail.

C. Maintenance:

1. Inspect ditch checks for sediment accumulation after each rainfall.
2. Sediment shall be removed when it reaches one-half of the original height.
 - a. Regular inspections shall insure that the center of a rock check is lower than the edges. Correct erosion caused by high flows around the edges of the check immediately.

3.9 SEDIMENT BASIN

A. General

1. Sediment basins are used for drainage areas of two (2) to five (5) acres or for a roadway ditch exceeding 1,000 consecutive feet in length. Break larger drainage areas or longer ditches into smaller areas.

B. Construction Requirements:

1. The area where a sediment basin is to be constructed shall be cleared of vegetation.
2. Construct the inlets of sediment basins with a wide cross-section and a minimum grade to prevent turbulence and allow deposition of soil particles.
 - a. The minimum depth is 2'; the maximum depth is 6'.
 - b. The minimum width is 5'; the maximum width is 20'.
 - c. The minimum length is 25'; the maximum length is 200'.
 - d. The minimum volume shall be 1,815 CF per acre of drainage area.
3. Sediment basins shall remain in service until all disturbed areas draining into the structure have been stabilized.
4. When use of sediment basin is discontinued, backfill all excavations and compact fill. Fill material shall be removed and the existing ground restored to the original or plan grade.
5. Maintenance
6. When the depth of sediment reaches 1/3 of the depth of structure in any part of the pool, all accumulation shall be removed.
7. Removed sediment shall be disposed of in locations that the sediment will not erode into the construction areas or into natural waterways. The same holds true for excavated material removed during construction of the sediment basin.

3.10 TEMPORARY SEEDING AND MULCHING

A. General

1. This item is applicable to all projects.
2. Seeding and/or mulching shall be a continuous operation on all cut slopes, fill slopes, and borrow pits during the construction process. All disturbed areas shall be seeded and mulched within five (5) working days after the last construction activity in all locations where necessary to eliminate erosion.

B. Construction Requirements:

1. Permanent seeding and mulching following temporary seeding will be performed during the favorable seeding seasons only.
2. Temporary seeding mixtures and planting season:
 - a. December 1 to March 1: 50 lbs. oat grain per acre
 - b. March 1 to December 1: 50 lbs. (cereal rye or wheat) per acre
3. Temporary mulch, fertilizer, and lime for seeding:
 - a. Fertilizer and mulch for temporary seed mixtures shall be applied in accordance with Section 02921.
 - b. Fertilizer shall be applied at the rate specified for permanent seeding.
 - c. Lime will not be required for temporary seeding.

3.11 STRAW BALES

A. General

1. Install at the bottom of embankment slopes less than 10' high to divert runoff from sheet flow and intercept some of the sediment in the sheet flow.
2. Install as ditch checks in small ditches and drainage areas.
3. Install on the lower side of cleared areas to catch sediment from sheet flow.

B. Construction Requirements:

1. Bales of straw shall be utilized to control erosion, trap sediment, and divert runoff.
2. Bales must be adequately braced from behind.

3.12 SILT FENCE

A. General

1. Install along the toe of fills over 10' in height, along the right-of-way line, parallel to streams or around an inlet to prevent sediment from entering the pipe system.

B. General Requirements:

1. The Contractor shall install a temporary silt fence in locations shown on the drawings, around inlets that accept flows containing silt, and other locations necessary to prevent the discharge of silt from the site.
2. Installation shall conform to the detail at the end of this section.
3. Fence construction shall be adequate to handle the stress from hydraulic and sediment loading.

C. Installation

1. Geotextile at the bottom of the fence shall be buried as indicated on the detail.
2. The trench shall be backfilled and the soil compacted over the geotextile. The geotextile shall be spliced together as indicated on the detail.
3. Post Installation
 - a. Post spacing shall not exceed 8' for wire support fence installation or 5' for self supported installations.
 - b. Posts shall be driven a minimum of 24" into the ground. Where rock is encountered, posts shall be installed in a manner approved by the Owner's Representative.
 - c. Closer spacing, greater embedment depth and/or wider posts shall be used in low areas, soft, or swampy ground to ensure adequate resistance to applied loads.
4. When support fence is used, the mesh shall be fastened securely to the upstream side of the post.
 - a. The mesh shall extend into the trench a minimum of 2" and extend a maximum of 36" above the original ground surface.
5. When self-supported fence is used, the geotextile shall be securely fastened to fence posts.

6. Maintenance

- a. The Contractor shall maintain the integrity of silt fences as long as they are necessary to contain sediment runoff.
 - b. The Contractor shall inspect all temporary silt fences immediately after each rainfall and at least daily, during prolonged rainfall.
 - c. The Contractor shall immediately correct deficiencies.
 - d. The Contractor shall make a daily review of the location of silt fences in areas where construction activities have changed the natural contour and drainage runoff to ensure that the silt fences are properly located for effectiveness.
 - e. Where a single fence is not adequate to handle the volume of silt or flows are not completely intercepted, additional silt fences shall be installed.
7. The Contractor shall remove and dispose of sediment deposits when the deposit approaches one-half the height of the fence.
8. The silt fence shall remain in place until the upstream surface is stabilized. Upon removal, the Contractor shall remove the silt fence, dispose of excess silt, and restore the disturbed area in accordance with Section 02921.

3.13 TEMPORARY PIPE

A. General:

1. The Contractor shall install temporary pipes and fill at locations, to be crossed by the Contractor's equipment, which carry a concentrated flow during rain events.

B. Construction Requirements:

1. All temporary pipes shall be installed in the same manner as permanent pipe is installed on the project to assure that the water does not cause erosion around the pipe.
2. Material to backfill the pipe should be placed in 6" lifts and mechanically compacted. Compaction testing will not be required.

3.14 SEDIMENT REMOVAL

A. General

1. Sediment deposits shall be removed when:
 - a. The deposits reach approximately one-half the height of a ditch check, straw bale barrier or silt fence.
 - b. The sediments have reduced the ponded volume of sediment basins to one-third of the original volume.
 - c. Requested by the Owner's Representative.

- B. Sediment removed from erosion control features shall be deposited in a location where it will not erode into construction areas or watercourses.

END OF SECTION 026250



INSTALLATION SUGGESTIONS FOR GUNNISON VAULT RESTROOM

1.0 MEASUREMENTS

A. Vault

Check drawing for actual dimensions and weight.

Weight:	17,400 lb.
Width:	6' 6"
Length:	14' 7½"
Height:	4' 4"

B. Building

Check drawing for actual dimensions and weight.

		With Thru Screen
Weight:	25,900 lb.	24,340 lb.
Width:	8' 6"	8' 6"
Length:	14' 7½"	14' 7½"
Height:	9' 5"	9' 5"

2.0 INSTALLATION

A. Placement

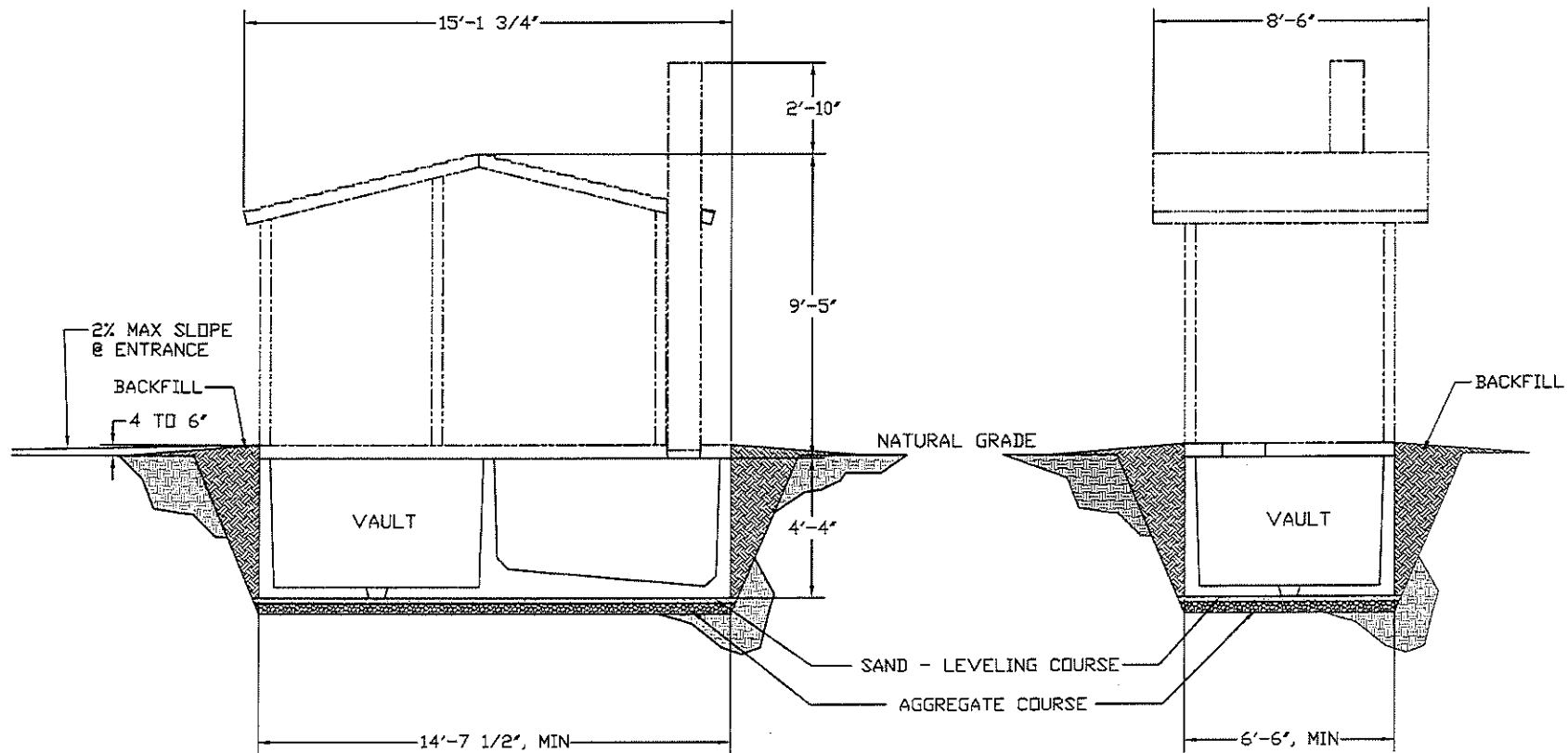
The floor of the building and the top of the vaults should be the high spot of the site chosen. Finished floor elevation should be 4- 6" above natural grade measured at the front entrance of the floor. Both the floor and the top of the vault should be above the surrounding ground level with the pathway sloped up to meet the entryway. Ideally, the back of the building should be slightly higher to allow water to freely drain out of the toilet rooms.

B. Excavation, Backfill and Compaction

The hole dug to accommodate the vaults must be large enough to be workable and to allow the floor to the building to fit on the vaults when placed, but small enough to avoid excessive backfill after placement (use your own judgement). Compact the natural ground at the bottom of the vault excavation with a minimum of three passes with a whacker-type mechanical compactor or equivalent approved by the customer. Install aggregate bedding material for building support. Compact aggregate course with two passes with a whacker-type mechanical tamper or equivalent approved by the customer.

Install leveling course of sand so there will be no high spots in the middle of the vault bottom. Set vault in place. Ideally, the containment area end of the vault should be slightly higher; ¼" per foot of run to allow the building to sit higher. Ensure vault is level, side to side. Backfill around the structure. Use excavated material for backfill, rocks larger than 6" in maximum dimension shall not be placed within 6" of the exterior vault walls. Fill, adjacent to the building

VAULT WEIGHT = 16,800 LBS
BUILDING WEIGHT = 25,875 LBS



FRONT ELEVATION

SIDE ELEVATION

4702 G. Flamingo Ave. Bldg 306, Houston, TX 77057

CXT
Precast Products

901 N. Highway 77, Houston, TX 77045

PROJECT NO.
SINGLE VAULT DETAIL
CXT STANDARD BUILDING

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CXT Incorporated				
REV.	DESCRIPTION	DATE	BY	CHKD.
001	1/1/87	1/1/87	1/1/87	1/1/87
002	1/1/87	1/1/87	1/1/87	1/1/87
003	1/1/87	1/1/87	1/1/87	1/1/87
004	1/1/87	1/1/87	1/1/87	1/1/87
005	1/1/87	1/1/87	1/1/87	1/1/87
006	1/1/87	1/1/87	1/1/87	1/1/87
007	1/1/87	1/1/87	1/1/87	1/1/87
008	1/1/87	1/1/87	1/1/87	1/1/87
009	1/1/87	1/1/87	1/1/87	1/1/87
010	1/1/87	1/1/87	1/1/87	1/1/87
011	1/1/87	1/1/87	1/1/87	1/1/87
012	1/1/87	1/1/87	1/1/87	1/1/87
013	1/1/87	1/1/87	1/1/87	1/1/87
014	1/1/87	1/1/87	1/1/87	1/1/87
015	1/1/87	1/1/87	1/1/87	1/1/87
016	1/1/87	1/1/87	1/1/87	1/1/87
017	1/1/87	1/1/87	1/1/87	1/1/87
018	1/1/87	1/1/87	1/1/87	1/1/87
019	1/1/87	1/1/87	1/1/87	1/1/87
020	1/1/87	1/1/87	1/1/87	1/1/87
021	1/1/87	1/1/87	1/1/87	1/1/87
022	1/1/87	1/1/87	1/1/87	1/1/87
023	1/1/87	1/1/87	1/1/87	1/1/87
024	1/1/87	1/1/87	1/1/87	1/1/87
025	1/1/87	1/1/87	1/1/87	1/1/87
026	1/1/87	1/1/87	1/1/87	1/1/87
027	1/1/87	1/1/87	1/1/87	1/1/87
028	1/1/87	1/1/87	1/1/87	1/1/87
029	1/1/87	1/1/87	1/1/87	1/1/87
030	1/1/87	1/1/87	1/1/87	1/1/87
031	1/1/87	1/1/87	1/1/87	1/1/87
032	1/1/87	1/1/87	1/1/87	1/1/87
033	1/1/87	1/1/87	1/1/87	1/1/87
034	1/1/87	1/1/87	1/1/87	1/1/87
035	1/1/87	1/1/87	1/1/87	1/1/87
036	1/1/87	1/1/87	1/1/87	1/1/87
037	1/1/87	1/1/87	1/1/87	1/1/87
038	1/1/87	1/1/87	1/1/87	1/1/87
039	1/1/87	1/1/87	1/1/87	1/1/87
040	1/1/87	1/1/87	1/1/87	1/1/87
041	1/1/87	1/1/87	1/1/87	1/1/87
042	1/1/87	1/1/87	1/1/87	1/1/87
043	1/1/87	1/1/87	1/1/87	1/1/87
044	1/1/87	1/1/87	1/1/87	1/1/87
045	1/1/87	1/1/87	1/1/87	1/1/87
046	1/1/87	1/1/87	1/1/87	1/1/87
047	1/1/87	1/1/87	1/1/87	1/1/87
048	1/1/87	1/1/87	1/1/87	1/1/87
049	1/1/87	1/1/87	1/1/87	1/1/87
050	1/1/87	1/1/87	1/1/87	1/1/87
051	1/1/87	1/1/87	1/1/87	1/1/87
052	1/1/87	1/1/87	1/1/87	1/1/87
053	1/1/87	1/1/87	1/1/87	1/1/87
054	1/1/87	1/1/87	1/1/87	1/1/87
055	1/1/87	1/1/87	1/1/87	1/1/87
056	1/1/87	1/1/87	1/1/87	1/1/87
057	1/1/87	1/1/87	1/1/87	1/1/87
058	1/1/87	1/1/87	1/1/87	1/1/87
059	1/1/87	1/1/87	1/1/87	1/1/87
060	1/1/87	1/1/87	1/1/87	1/1/87
061	1/1/87	1/1/87	1/1/87	1/1/87
062	1/1/87	1/1/87	1/1/87	1/1/87
063	1/1/87	1/1/87	1/1/87	1/1/87
064	1/1/87	1/1/87	1/1/87	1/1/87
065	1/1/87	1/1/87	1/1/87	1/1/87
066	1/1/87	1/1/87	1/1/87	1/1/87
067	1/1/87	1/1/87	1/1/87	1/1/87
068	1/1/87	1/1/87	1/1/87	1/1/87
069	1/1/87	1/1/87	1/1/87	1/1/87
070	1/1/87	1/1/87	1/1/87	1/1/87
071	1/1/87	1/1/87	1/1/87	1/1/87
072	1/1/87	1/1/87	1/1/87	1/1/87
073	1/1/87	1/1/87	1/1/87	1/1/87
074	1/1/87	1/1/87	1/1/87	1/1/87
075	1/1/87	1/1/87	1/1/87	1/1/87
076	1/1/87	1/1/87	1/1/87	1/1/87
077	1/1/87	1/1/87	1/1/87	1/1/87
078	1/1/87	1/1/87	1/1/87	1/1/87
079	1/1/87	1/1/87	1/1/87	1/1/87
080	1/1/87	1/1/87	1/1/87	1/1/87
081	1/1/87	1/1/87	1/1/87	1/1/87
082	1/1/87	1/1/87	1/1/87	1/1/87
083	1/1/87	1/1/87	1/1/87	1/1/87
084	1/1/87	1/1/87	1/1/87	1/1/87
085	1/1/87	1/1/87	1/1/87	1/1/87
086	1/1/87	1/1/87	1/1/87	1/1/87
087	1/1/87	1/1/87	1/1/87	1/1/87
088	1/1/87	1/1/87	1/1/87	1/1/87
089	1/1/87	1/1/87	1/1/87	1/1/87
090	1/1/87	1/1/87	1/1/87	1/1/87
091	1/1/87	1/1/87	1/1/87	1/1/87
092	1/1/87	1/1/87	1/1/87	1/1/87
093	1/1/87	1/1/87	1/1/87	1/1/87
094	1/1/87	1/1/87	1/1/87	1/1/87
095	1/1/87	1/1/87	1/1/87	1/1/87
096	1/1/87	1/1/87	1/1/87	1/1/87
097	1/1/87	1/1/87	1/1/87	1/1/87
098	1/1/87	1/1/87	1/1/87	1/1/87
099	1/1/87	1/1/87	1/1/87	1/1/87
100	1/1/87	1/1/87	1/1/87	1/1/87

VAULT INSTALLATION

DATE	SCALE	BY	CHKD.
1/1/87	1/1/87	1/1/87	1/1/87