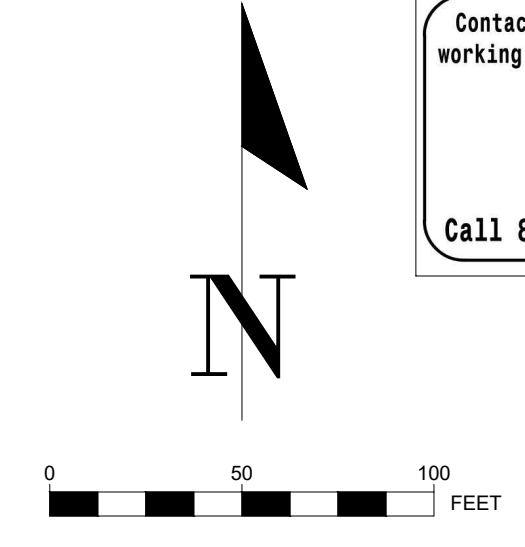
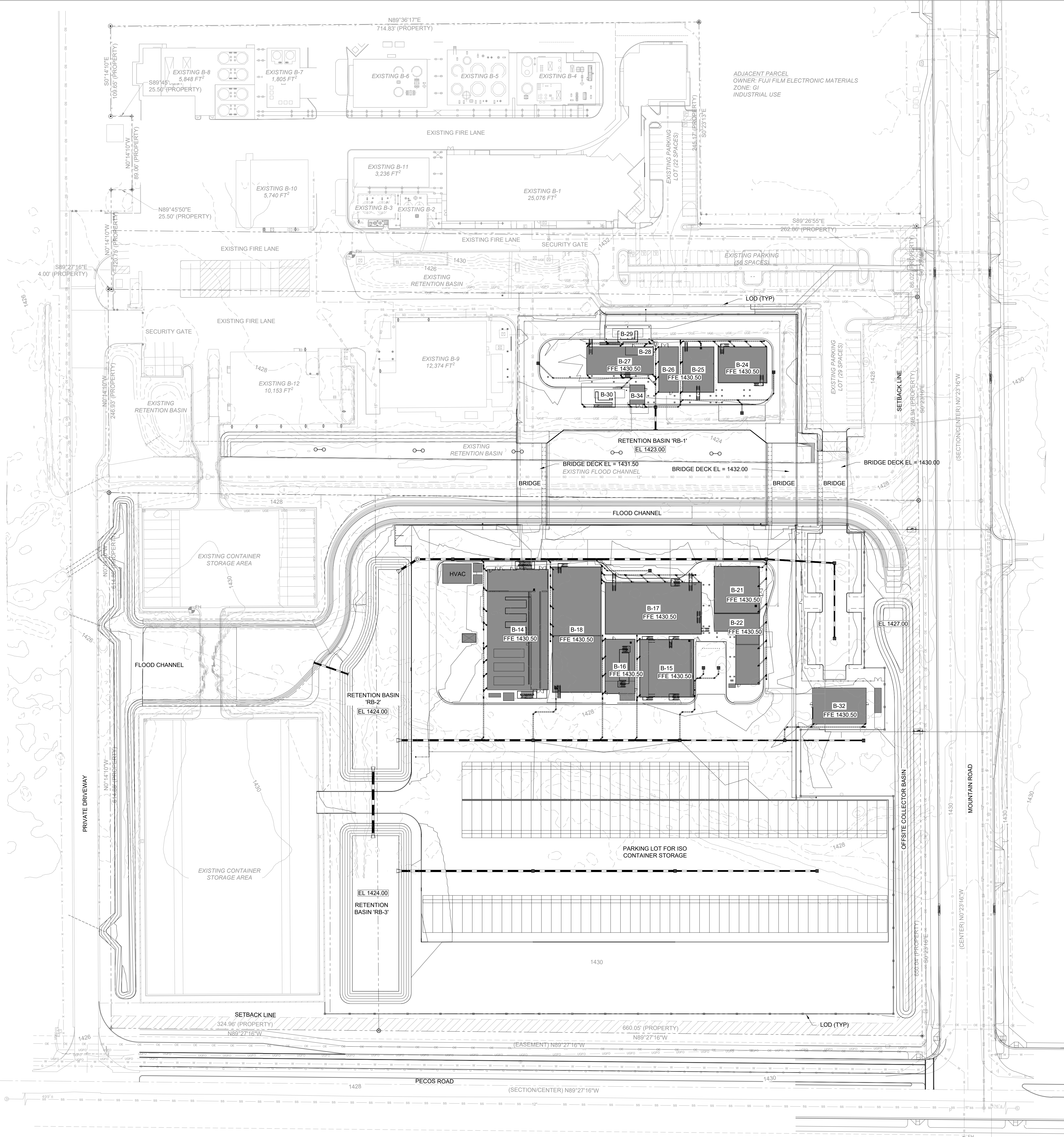


Contact Arizona 811 at least two full working days before you begin excavation  
  
 Call 811 or click Arizona811.com



DOC. REL.#	DATE	DESCRIPTION
1	02/29/2024	PRE-PROPOSAL DOCUMENTS
2	03/13/2024	PROPOSAL DOCUMENTS
3	04/01/2024	PROPOSAL DOCUMENTS
6	05/29/2024	PROPOSAL DOCUMENTS
8	08/21/2024	PERMIT DOCUMENTS
10	09/23/2024	PERMIT DOCUMENTS



10 Quality Street  
 Lexington, Kentucky 40507-1450  
 Telephone: (859) 281-5000  
 Facsimile: (859) 252-5300  
 Food & Beverage | Manufacturing  
 Automotive | Distribution  
 Mission Critical | Commercial



GRAY AE, PSC  
 10 Quality Street  
 Lexington, Kentucky 40507-1450  
 Telephone: (859) 281-5000  
 Facsimile: (859) 252-5300

POLLUTANTS FROM OWNER'S OPERATIONS - CUSTOMER'S KNOWLEDGE OF ITS ACTIVITIES THAT WILL BE CONDUCTED WITHIN THE FACILITY TO BE DESIGNED BY GRAY AE, PSC AND CONSTRUCTED BY GRAY, AND THE MATERIALS INVOLVED IN THESE ACTIVITIES IS SUPERIOR TO GRAY AE, PSC AND GRAY'S KNOWLEDGE, ACCORDINGLY, AND ANYTHING CONTAINED IN THE CONTRACT DOCUMENTS TO THE CONTRARY NOTWITHSTANDING, ANY CITY OR WARRANTY BY GRAY HEREIN SHALL NOT APPLY TO THE DISCHARGE, DISPERSAL, ESCAPE, RELEASE OR SATURATION OF ANY POLLUTANT INTO THE ATMOSPHERE OR ANY BODY OF WATER OR ON, INTO, UPON, IN OR INTO THE SURFACE OR SUBSURFACE OF LAND, FOR PURPOSE OF THIS SECTION, THE WORD "POLLUTANT" SHALL MEAN ANY SOLID, LIQUID, GASEOUS, OR THERMAL SUBSTANCE OR CONTAMINANT INCLUDING BUT NOT LIMITED TO INK, PAINT, OIL, GREASE, ACID, ALKALI, CHEMICALS AND WASTE AND SHALL INCLUDE ANY HAZARDOUS SUBSTANCE. THE CONTRACTOR OF THE FACILITY AND DESIGNER SHALL INCLUDE ANY PARTS, SO AS TO PREVENT THE ESCAPE, RELEASE, DISCHARGE, DISPERSAL OR SATURATION OF POLLUTANTS SHALL BE THE SOLE RESPONSIBILITY OF THE CUSTOMER.

NOTICE: UNLESS OTHERWISE AGREED IN WRITING, GRAY IS THE SOLE OWNER OF ALL PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS AND ANY TRADE SECRETS IN THE MATTER CONTAINED HEREIN. ANY DISCLOSURE, REPRODUCTION OR REVISION OF THIS DOCUMENT OR ANY PORTION THEREOF IS SPECIFICALLY PROHIBITED UNLESS PREVIOUSLY APPROVED IN WRITING BY GRAY.

CORP. SEAL

**MPCA AZ4 Expansion**  
**MESA, ARIZONA**

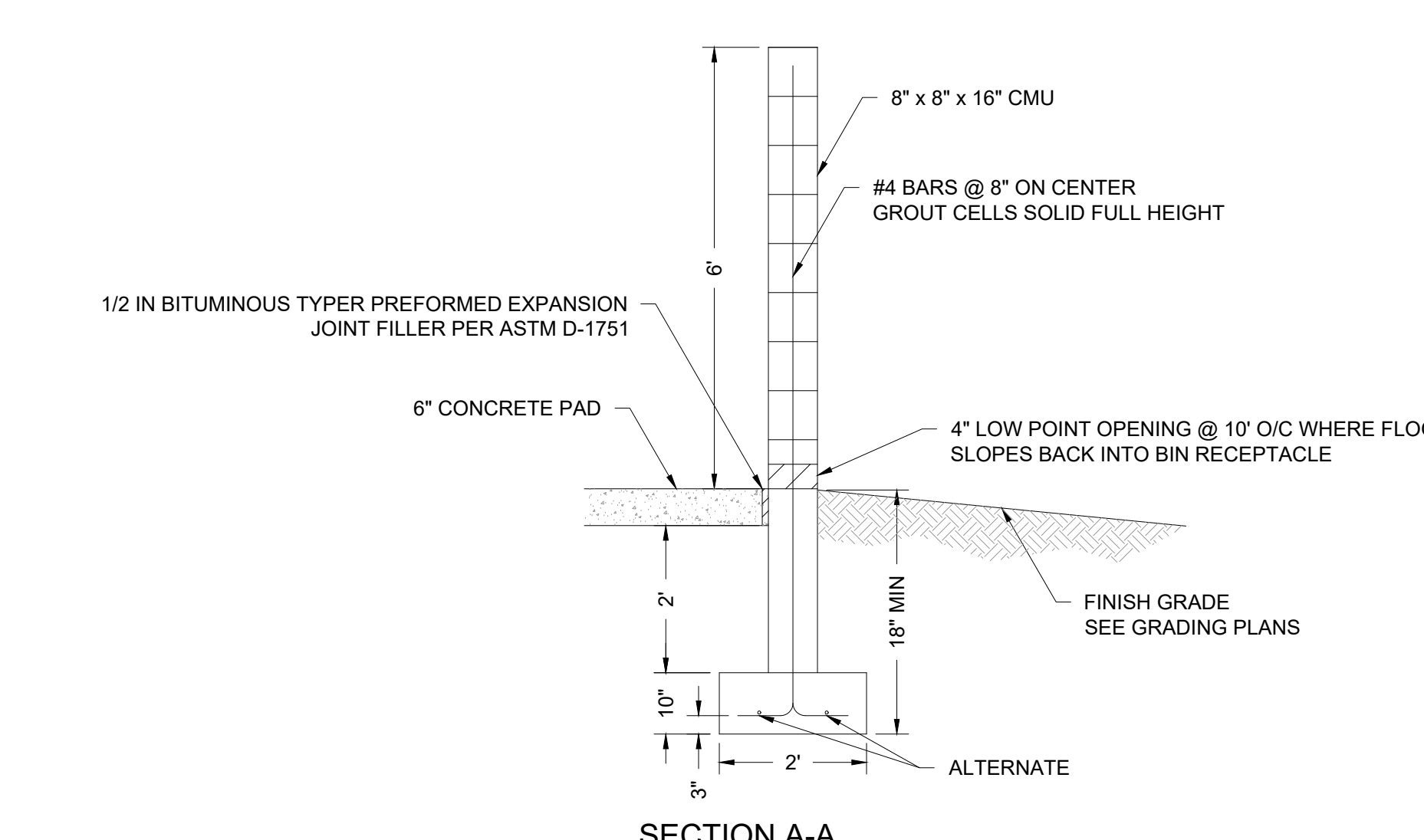
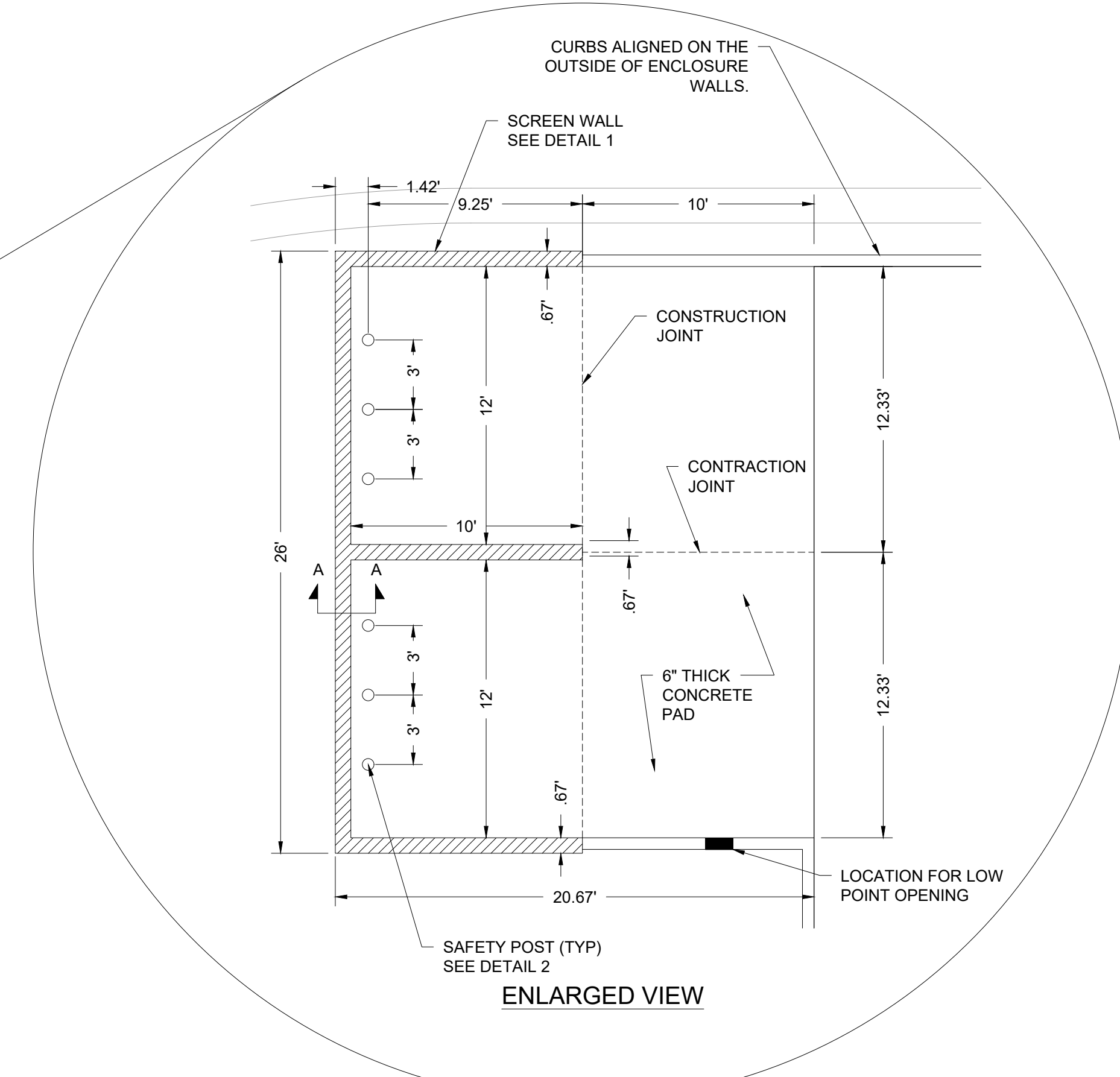
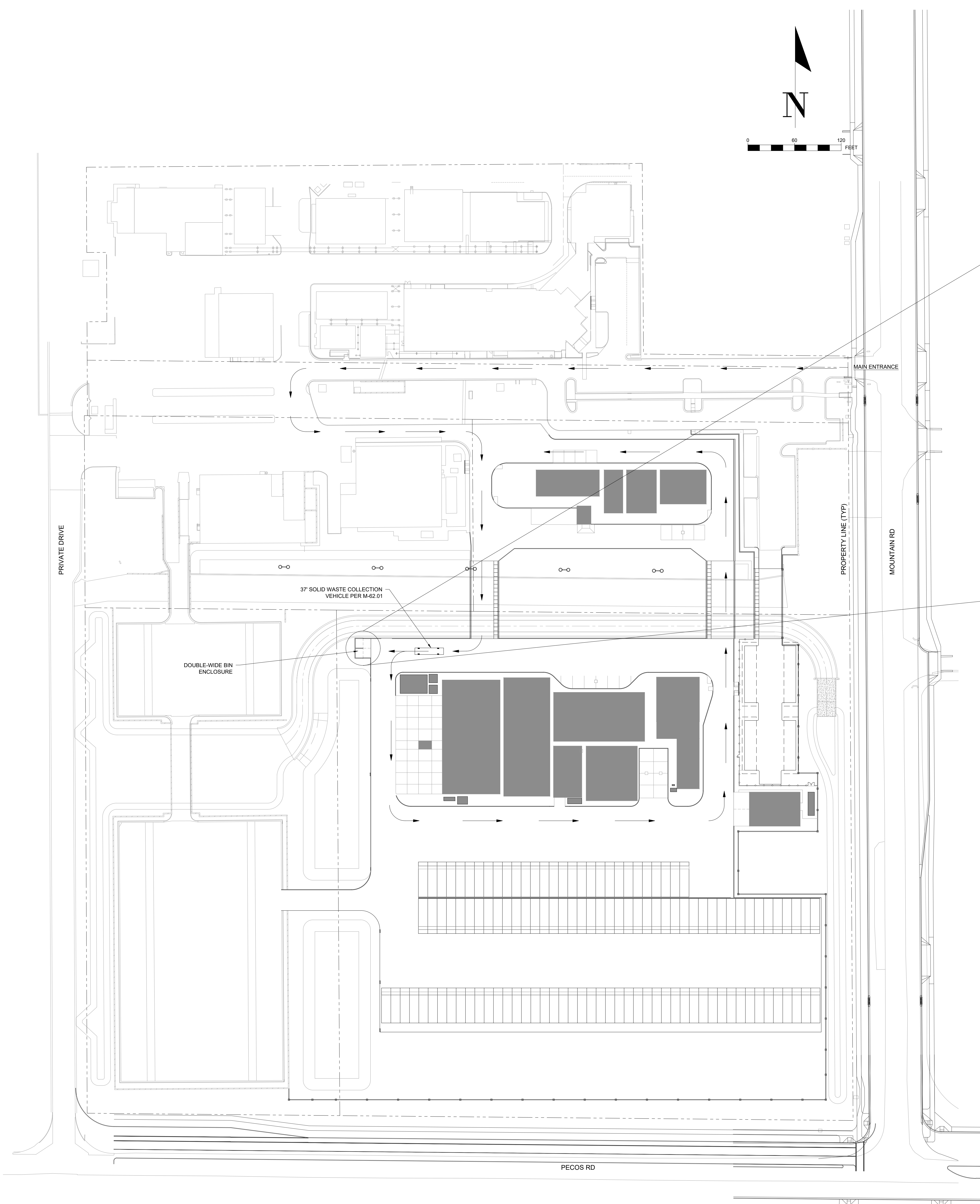
**OVERALL GRADING  
 & UTILITY PLAN**

**NOT FOR CONSTRUCTION**

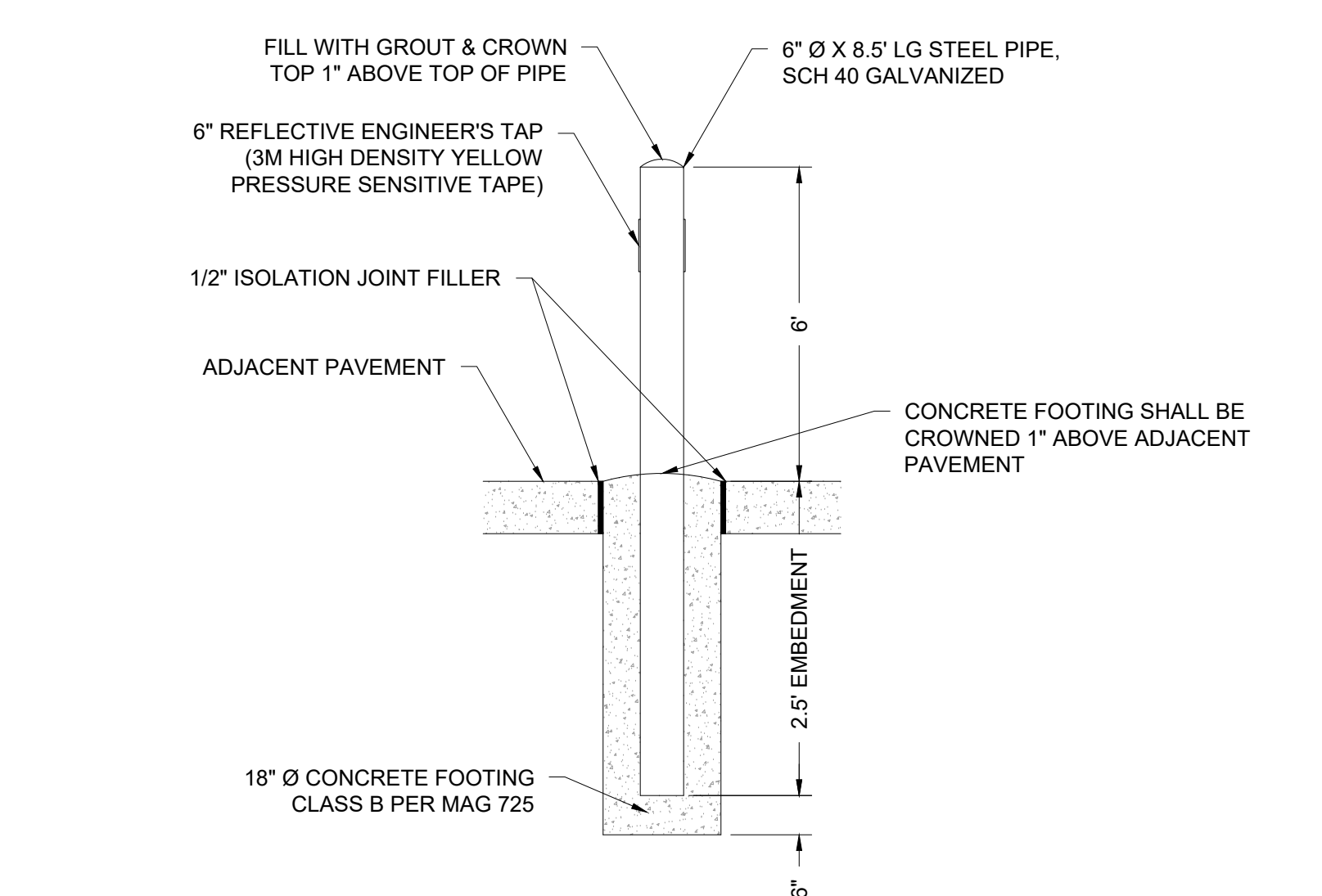
JOB NUMBER 2024045	SHEET NUMBER <b>C-500</b>
-----------------------	------------------------------

Contact Arizona 811 at least two full working days before you begin excavation  
  
 Call 811 or click Arizona811.com

DOC. REL.#	DATE	DESCRIPTION
1	02/29/2024	PRE-PROPOSAL DOCUMENTS
2	03/13/2024	PROPOSAL DOCUMENTS
3	04/01/2024	PROPOSAL DOCUMENTS
6	05/29/2024	PROPOSAL DOCUMENTS
8	08/21/2024	PERMIT DOCUMENTS
10	09/23/2024	PERMIT DOCUMENTS



1 6-FOOT MASONRY SCREEN WALL NTS



2 SAFETY POST NTS

A SOLID WASTE COLLECTION ROUTE  
 1" = 60'



10 Quality Street  
 Lexington, Kentucky 40507-1450  
 Telephone: (859) 281-5000  
 Facsimile: (859) 252-5300  
 Food & Beverage | Manufacturing  
 Automotive | Distribution  
 Mission Critical | Commercial



GRAY AE, PSC  
 10 Quality Street  
 Lexington, Kentucky 40507-1450  
 Telephone: (859) 281-5000  
 Facsimile: (859) 252-5300

POLLUTANTS FROM OWNER'S OPERATIONS - CUSTOMER'S KNOWLEDGE OF ITS ACTIVITIES THAT WILL BE CONDUCTED WITHIN THE FACILITY TO BE DESIGNED BY GRAY AE, PSC AND CONSTRUCTED BY GRAY, AND THE MATERIALS INVOLVED IN THOSE ACTIVITIES IS SUPERIOR TO GRAY AE, PSC AND GRAY'S KNOWLEDGE, ACCORDINGLY, AND ANYTHING CONTAINED IN THE CONTRACT DOCUMENTS TO THE CONTRARY notwithstanding, ANY GRAY OR WARRANTY BY GRAY HEREIN SHALL NOT APPLY TO THE DISCHARGE, OMBERSAL, ESCAPE, RELEASE OR SATURATION OF ANY POLLUTANT INTO THE ATMOSPHERE OR ANY BODY OF WATER OR ON, INTO, UPON, IN OR INTO THE SURFACE OR SUBSURFACE OF LAND, FOR PURPOSES OF THIS SECTION, THE WORD "POLLUTANT" SHALL MEAN ANY SOLID, LIQUID, GASEOUS, OR THERMAL WASTANT OR CONTAMINANT, INCLUDING BUT NOT LIMITED TO INK, PAINT, FLOOR FINISHES, ADHESIVES, CHEMICALS, AND WASTE AND SHALL INCLUDE ANY HAZARDOUS SUBSTANCE. THE CAPACITY OF THE FACILITY AND THE DESIGN OF ANY OF ITS PARTS, SO AS TO PREVENT THE ESCAPE, RELEASE, DISCHARGE, OMBERSAL OR SATURATION OF POLLUTANTS SHALL BE THE SOLE RESPONSIBILITY OF THE CUSTOMER.

NOTICE: UNLESS OTHERWISE AGREED IN WRITING, GRAY IS THE SOLE OWNER OF ALL PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS AND ANY TRADE SECRETS IN THE MATTER CONTAINED HEREIN. ANY DISCLOSURE, REPRODUCTION OR REVISION OF THIS DOCUMENT OR ANY PORTION THEREOF IS SPECIFICALLY PROHIBITED UNLESS PREVIOUSLY APPROVED IN WRITING BY GRAY.

CORP. SEAL

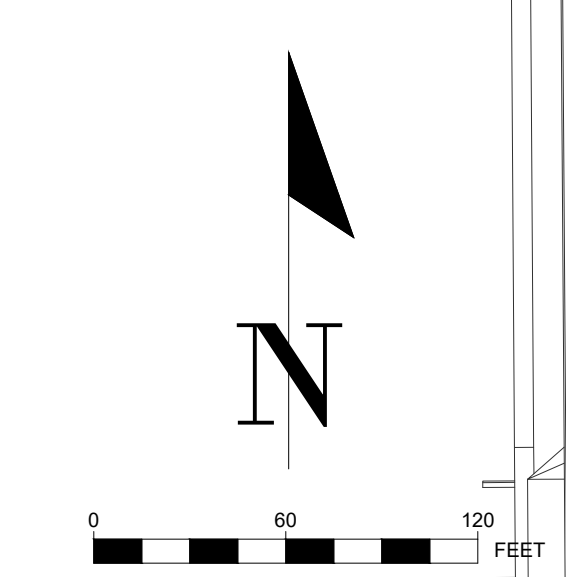
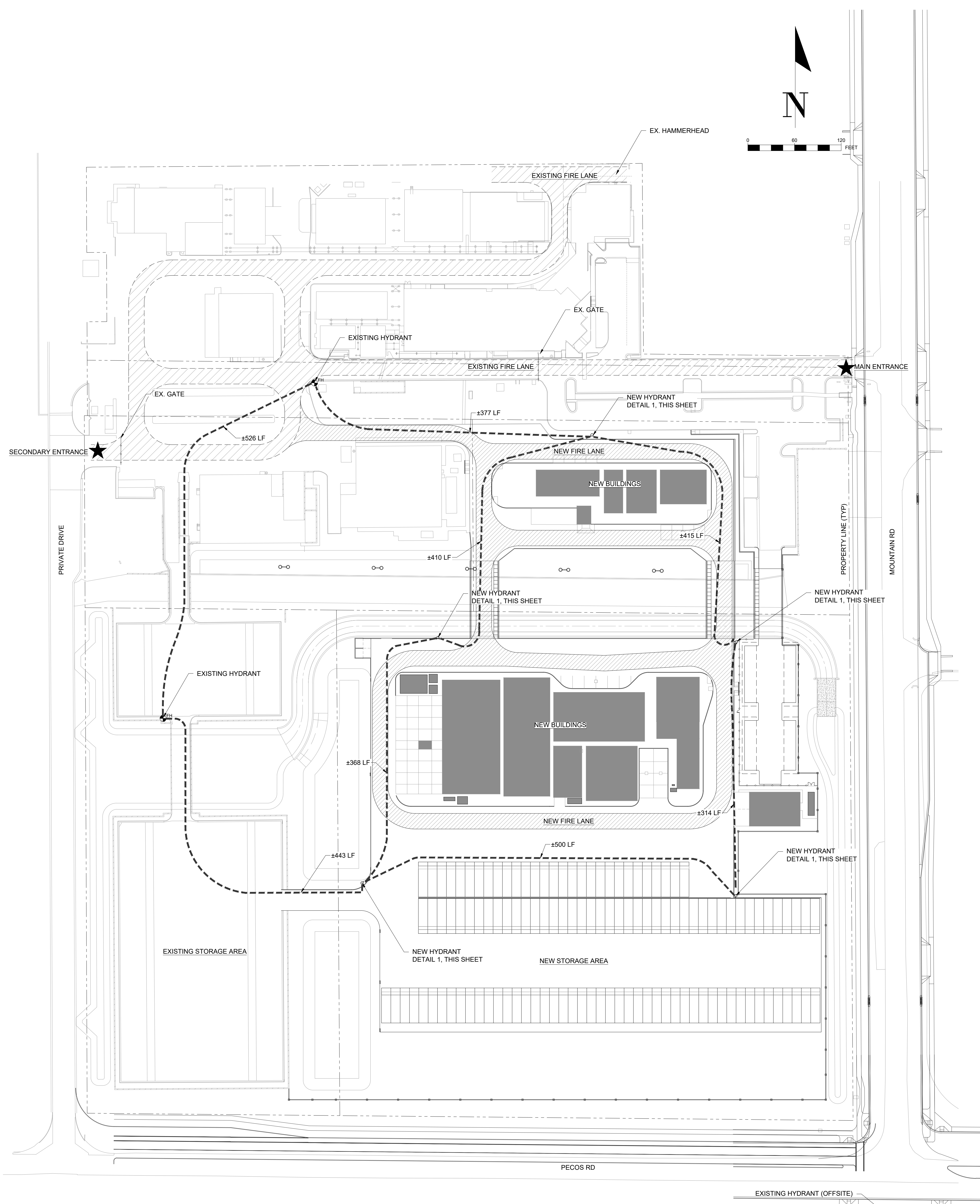
MPCA AZ4 Expansion  
 MESA, ARIZONA

SOLID WASTE PLAN  
 & DETAILS

JOB NUMBER 2024045 SHEET NUMBER C-801

NOT FOR CONSTRUCTION

DOC. REL.#	DATE	DESCRIPTION
1	02/29/2024	PRE-PROPOSAL DOCUMENTS
2	03/13/2024	PROPOSAL DOCUMENTS
3	04/01/2024	PROPOSAL DOCUMENTS
6	05/29/2024	PROPOSAL DOCUMENTS
8	08/21/2024	PERMIT DOCUMENTS
10	09/23/2024	PERMIT DOCUMENTS



**LEGEND**

- ★ FIRE DEPARTMENT ACCESS POINTS
- ▨ FIRE TRUCK VEHICLE TRACKING
- ⊕ EXISTING FIRE HYDRANT
- ⊕ PROPOSED FIRE HYDRANT
- FIRE DEPARTMENT ACCESS GATE

**NOTE:**

1. ALL PAVEMENT IS DESIGNED TO SUPPORT 78,000 LB VEHICLE (24,000 LB FRONT AXLE & 54,000 LB REAR AXLE)
2. ALL NEW FIRE LANE STRIPING AND SIGNAGE SHALL CONFORM TO FPD 503.3 SHOWN AS DETAIL 2 ON THIS SHEET.



**DESIGN MATERIALS:**

- Fire Hydrants shall be of the dry-barrel type.
- Hydrants shall comply with the latest edition of AWWA C502, M&S Sec. 755 and the City of Mesa Amendment to the MAG Uniform Standard Specifications and Details unless indicated otherwise herein.
- **Flange Nozzles:**
  - Two (2) 2-1/2-inches in diameter with National Standard Threads
  - One (1) steamer connection, 4 1/2-inches in diameter with National Standard Threads.
- **Main Valve Seat Opening Dia:** 5-1/4 in. min.
- **Min. Pressure Rating:** 250 psig working; 500 psig hydrostatic (factory tested).
- Hydrants shall be of the break-flange traffic model type with a replaceable breakable unit immediately above the ground line.
- Hydrant nozzle section shall be capable of rotation through 360 degrees to at least 8 points of rotation with respect to the standpipe.
- **Interior Coating:** All interior ferrous surfaces of the shoe exposed to water shall be coated with a 100% powder epoxy or liquid epoxy (0.5 mil. Min. DFT) that conforms to AWWA C 550-81 and NSF-61.
- **Exterior Coating:** Coating shall be one of the following:
  - 1) Polyglycidyl isocyanurate (TIGC) polyester coating meeting the following:
    - Hardness: ASTM D 3363
    - Impact Resistance: ASTM D 2794
    - Chip Resistance: ASTM D 3170
  - 2) Prime coated with an epoxy and finish coated with a two-part polyurethane top coat meeting the following:
    - Compression Resistance: ASTM B 117-02
- **Damage Coating Details:** Chipped or damaged coatings shall be repaired using a minimum of a two-part system comprised of an epoxy primer base coat and polyurethane topcoat meeting the requirements of MAG Specification Section 756. The coating shall be fade and UV resistant, and the color shall match the factory color. Surface preparation shall be per manufacturer recommendations. If paint touch up kits are available from the hydrant manufacturer, those shall be utilized for coating repairs.

**Approved Models:**

1. WATERLOUS PACER MODEL WB-67-250
2. CLOW MEDALLION
3. MUELLER SUPER CENTURION A423

Created: 12/17/12  
 Revised: 04/01/19

**FIRE HYDRANTS**      **W-2**

Page 1 of 2

**1 FIRE HYDRANT NTS**

**SIGNS (EXISTING SIGN REPLACEMENT ONLY)**

- 2" Letters are 5/8" wide
- 1/2" Letters are 1/2" wide
- 1/4" Letters are 3/8" wide
- All letters are red with white background
- The sign shall be mounted on a post per MAG, Detail #131
- The bottom of the sign shall be 7" above grade
- Signs shall be posted facing normal direction of traffic
- Intermediate signs to be posted at change of direction

**CURBS (ALL NEW FIRE LANES OR IF OLD SIGNAGE IS REMOVED)**

- Curb shall be painted red (Pono Brand Paint #704 or equivalent) with white letters "FIRE LANE - NO PARKING" every 50 ft
- Letters are red with white background
- Lettering must be on top of the surface of the curb
- When there are no curbs, a 7" wide red curb shall be placed at the edge of the slaking surface. The white lettering shall be placed on the red curb as stated above.
- Additional markings may be required by the Fire Marshal

**NOTES**

- Paint shall not be supplied by the City
- Signs and posts shall not be supplied by the City
- Paint and Signs shall be "reflective"
- Markings and Signs are to be maintained by the property owner
- Paint shall be specified to concrete use
- Marking types shall be per Fire Marshal approval

**MESA FIRE AND MEDICAL DEPARTMENT DETAIL**      **FIRE LANE MARKING & SIGNAGE PRIVATE PROPERTY**

Revised: 02/10/2019      **FPD 503.3 PAGE 1 OF 1**

**2 FIRE LANE SIGNAGE & STRIPING NTS**

**A FIRE LANE AND HYDRANT PLAN**  
 1" = 60'

**NOT FOR CONSTRUCTION**



10 Quality Street  
 Lexington, Kentucky 40507-1450  
 Telephone: (859) 281-5000  
 Facsimile: (859) 252-5300  
**Food & Beverage | Manufacturing  
 Automotive | Distribution  
 Mission Critical | Commercial**



**GRAY AE, PSC**  
 10 Quality Street  
 Lexington, Kentucky 40507-1450  
 Telephone: (859) 281-5000  
 Facsimile: (859) 252-5300

POLLUTANTS FROM OWNER'S OPERATIONS - CUSTOMER'S KNOWLEDGE OF ITS ACTIVITIES THAT WILL BE CONDUCTED WITHIN THE FACILITY TO BE DESIGNED BY GRAY AE, PSC AND CONSTRUCTED BY GRAY, AND THE MATERIALS INVOLVED IN THOSE ACTIVITIES IS SUPERIOR TO GRAY AE, PSC AND GRAY'S KNOWLEDGE, ACCORDINGLY, AND ANYTHING CONTAINED IN THE CONTRACT DOCUMENTS TO THE CONTRARY notwithstanding, ANY GRAY OR WARRANTY BY GRAY HEREIN SHALL NOT APPLY TO THE DISCHARGE, OBTAINMENT, ESCAPE, RELEASE OR SATURATION OF ANY POLLUTANT INTO THE ATMOSPHERE OR ANY BODY OF WATER OR ON, INTO, UPON, IN OR INTO THE SURFACE OR SUBSURFACE OF LAND, FOR PURPOSES OF THIS SECTION, THE WORD "POLLUTANT" SHALL MEAN ANY SOLID, LIQUID, GASEOUS, OR THERMAL EFFLUENT OR CONTAMINANT, INCLUDING BUT NOT LIMITED TO INK, PAINT, ROOT, LIMBS, ALKALIS, CHEMICALS AND WASTE AND SHALL INCLUDE ANY HAZARDOUS SUBSTANCE. THE CAPACITY OF THE FACILITY AND THE DESIGN OF ANY OF ITS PARTS, SO AS TO PREVENT THE ESCAPE, RELEASE, DISCHARGE, OBTAINMENT OR SATURATION OF POLLUTANTS SHALL BE THE SOLE RESPONSIBILITY OF THE CUSTOMER.

NOTICE: UNLESS OTHERWISE AGREED IN WRITING, GRAY IS THE SOLE OWNER OF ALL PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS AND ANY TRADE SECRETS IN THE MATTER CONTAINED HEREIN. ANY DISCLOSURE, REPRODUCTION OR DIVULGENCE OF THE DOCUMENT OR ANY PORTION THEREOF IS SPECIFICALLY PROHIBITED UNLESS PREVIOUSLY APPROVED IN WRITING BY GRAY.

CORP. SEAL

**MPCA AZ4 Expansion**  
**MESA, ARIZONA**

**FIRE LANE & HYDRANT PLAN**

JOB NUMBER 2024045	SHEET NUMBER <b>C-802</b>
-----------------------	------------------------------