



# REPLACE WATER MAIN

at the

## Department of Veterans Affairs Medical Center

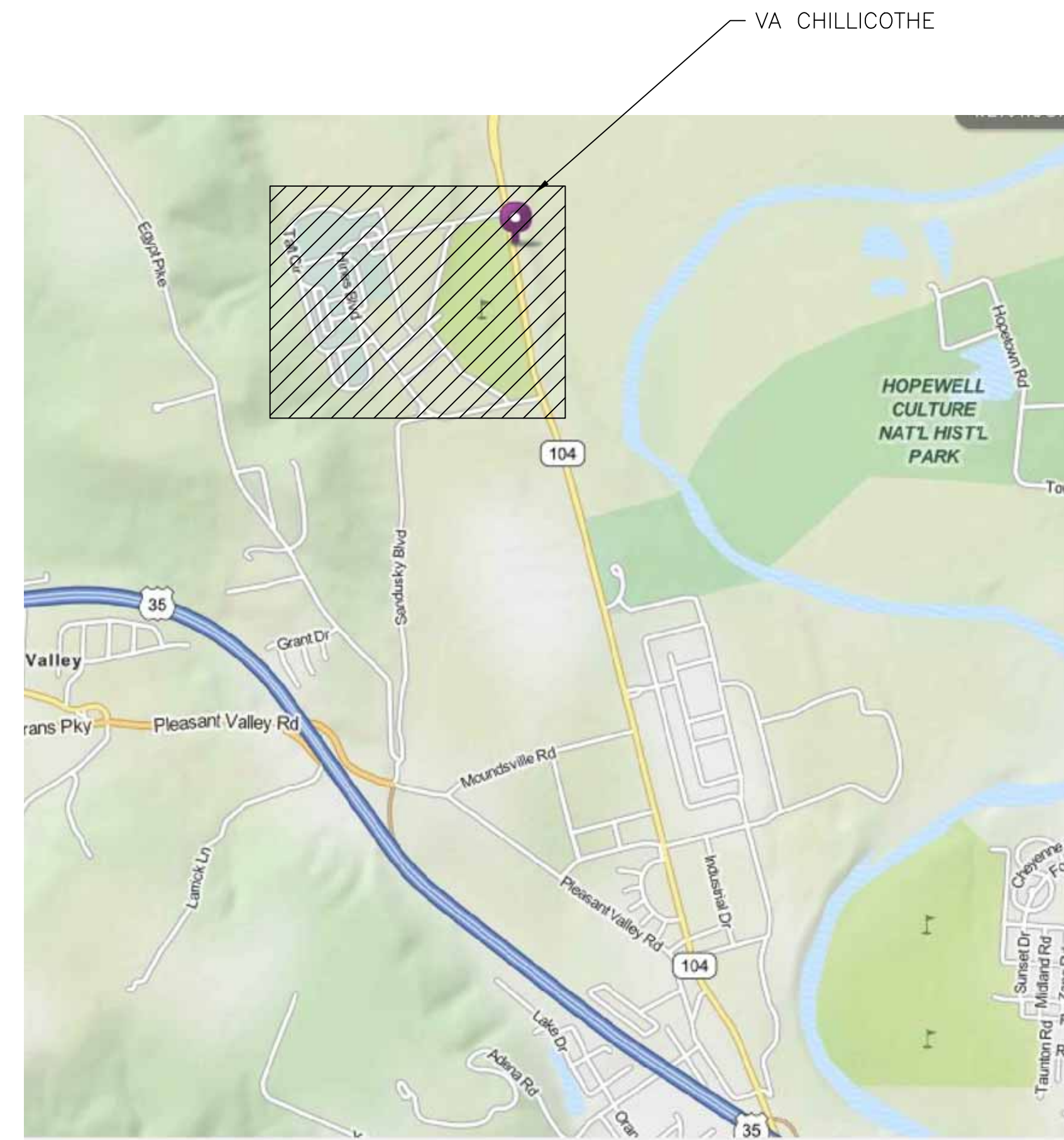
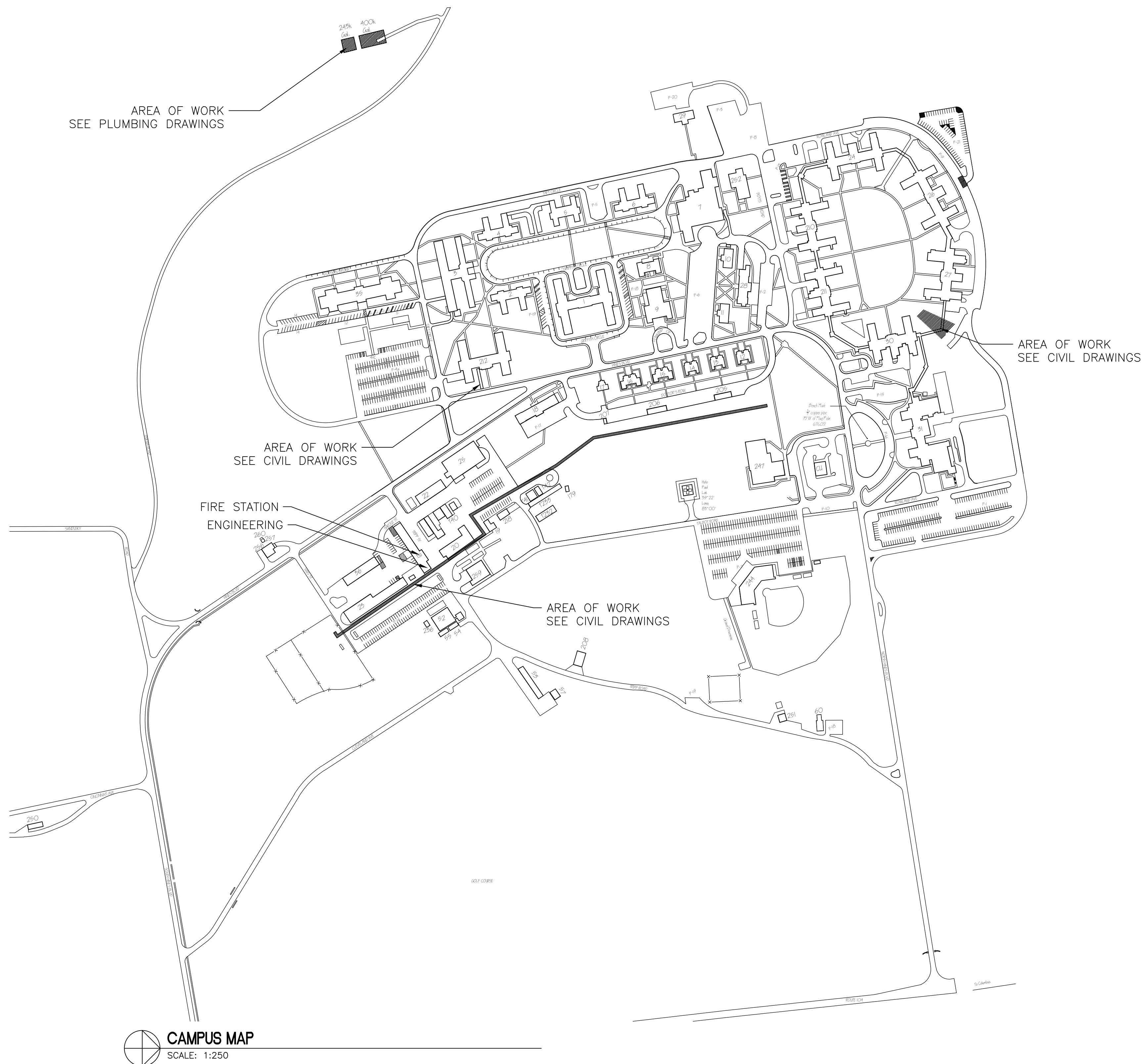
### 17273 State Route 104

### Chillicothe, Ohio 45601-9718

## Construction Documents

#### GENERAL NOTES

1. COTR IS THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE.
2. ALL PROJECT WORK MUST BE COORDINATED WITH THE COTR TO MAINTAIN OPERATIONS OF THE EXISTING HOSPITAL FACILITIES. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE PROJECT COTR OF ANY WORK THAT MIGHT REQUIRE INTERRUPTION OF UTILITY SERVICES. ALL SUCH INTERRUPTIONS SHALL BE SCHEDULED AS OUTLINED IN THE PROJECT SPECIFICATIONS.
3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE OR NATIONAL CODES AND REGULATIONS INCLUDING THE AMERICAN WITH DISABILITY ACT (ADA) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) GUIDELINES.
4. EACH CONTRACTOR & SUB-CONTRACTOR IS RESPONSIBLE FOR A COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS.
5. ANY MATERIAL OR LABOR, NEITHER SHOWN ON THE DRAWINGS NOR SPECIFIED, BUT WHICH IS NECESSARY TO COMPLETE THE WORK OF A SIMILAR NATURE SHALL BE FURNISHED WITHOUT COST TO THE OWNER OR ARCHITECT.
6. EACH CONTRACTOR & THEIR SUB-CONTRACTORS SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE ALL THEIR WORK AND FURNISHING A COMPLETE JOB (UNLESS NOTED OTHERWISE) IN ACCORDANCE WITH AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
7. DRAWINGS INDICATE THE MINIMUM STANDARDS. IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN THEIR WORK, AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COST.
8. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING MATERIALS REQUIRED TO PERFORM THEIR WORK. THIS INCLUDES THE PATCHING OF MATERIALS TO A "LIKE NEW" CONDITION.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LAYING OUT ALL WORK.
10. EACH CONTRACTOR IS RESPONSIBLE TO PROTECT THEIR WORK, MATERIALS, AND OWNERS PROPERTY AGAINST DAMAGE AND THEFT.
11. EACH CONTRACTOR IS RESPONSIBLE TO PERFORM THEIR WORK IN ACCORDANCE WITH ALL STATE, AND O.S.H.A. REGULATIONS AND SHALL MAINTAIN A CLEAN AND ORDERLY WORK AND STORAGE AREA.
12. IF A DISCREPANCY EXISTS IN THE DRAWINGS OR SPECIFICATIONS, THE GREATER QUALITY OR QUANTITY SHALL BE PROVIDED.
13. ALL CONTRACTORS ARE TO ACCOMPLISH WORK IN A MANNER THAT WILL NOT DISTURB ADJACENT SITE AREAS AS MUCH AS POSSIBLE.
14. THE GENERAL CONTRACTOR IS TO COORDINATE FINAL CONSTRUCTION AREA CLEAN-UP.
15. CONTRACTOR TO MAINTAIN ACCESS TO EXISTING BUILDINGS DURING DEMOLITION AND CONSTRUCTION.
16. ALL EXISTING CONSTRUCTION TO REMAIN THAT IS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE PATCHED OR RESTORED TO MATCH EXISTING ADJACENT CONSTRUCTION UNLESS OTHERWISE INDICATED.
17. IT IS A REQUIREMENT OF THE PROJECT THAT THE NEW WATER MAIN IS INSTALLED AND PLACED IN SERVICE WITH MINIMAL INTERRUPTION TO THE VA FACILITY.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD INSPECT THE PROJECT LIMITS PRIOR TO CONSTRUCTION AND DETERMINE SIZE, NUMBER AND LIMITS OF VISIBLE OBSTRUCTIONS WHICH ARE TO BE REMOVED, RELOCATED AND SALVAGED INCLUDING VEGETATION, UTILITIES, ETC.
19. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON A COMPILATION OF RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURE. EXACT LOCATIONS CANNOT BE VERIFIED.

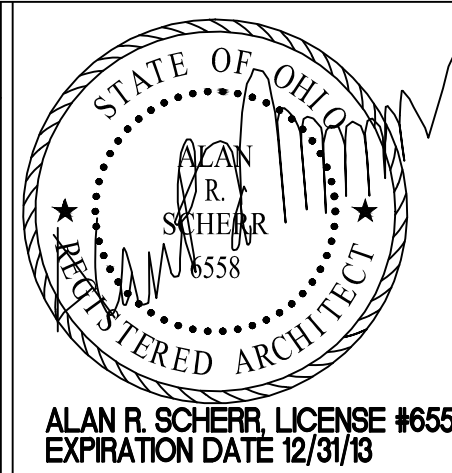


#### DRAWING INDEX

GENERAL	
G101	TITLE SHEET
CIVIL	
C101	GENERAL NOTES AND DETAILS
C102	WATERLINE DETAILS
C103	WATERLINE PLAN AND PROFILE
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PLUMBING	
PL1	PLUMBING DEMOLITION AND NEW WORK

FOR CONSTRUCTION	12/20/12
90% CONSTRUCTION DOCUMENTS-RESUBMITTAL	11/21/12
90% CONSTRUCTION DOCUMENTS	10/22/12
35% SCHEMATIC DESIGN	9/18/12
Revisions	Date

#### CONSULTANTS:



#### ARCHITECT/ENGINEERS:



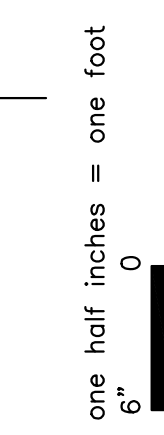
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Approved Project Director -		Location CHILLICOTHE		Drawing Number G101	
Date 12/20/12		Checked AS	Drawn VP	Dwg. 1 of 12	
				Office of Construction and Facilities Management Department of Veterans Affairs	



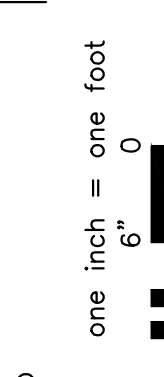




A three inches = one foot



- 2



inch = one foot  
2

D

4

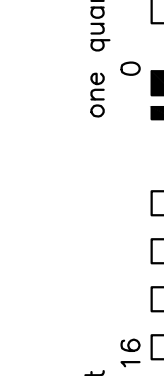
three quarter  
6" 0

- half inch = one foot

one foot  
4

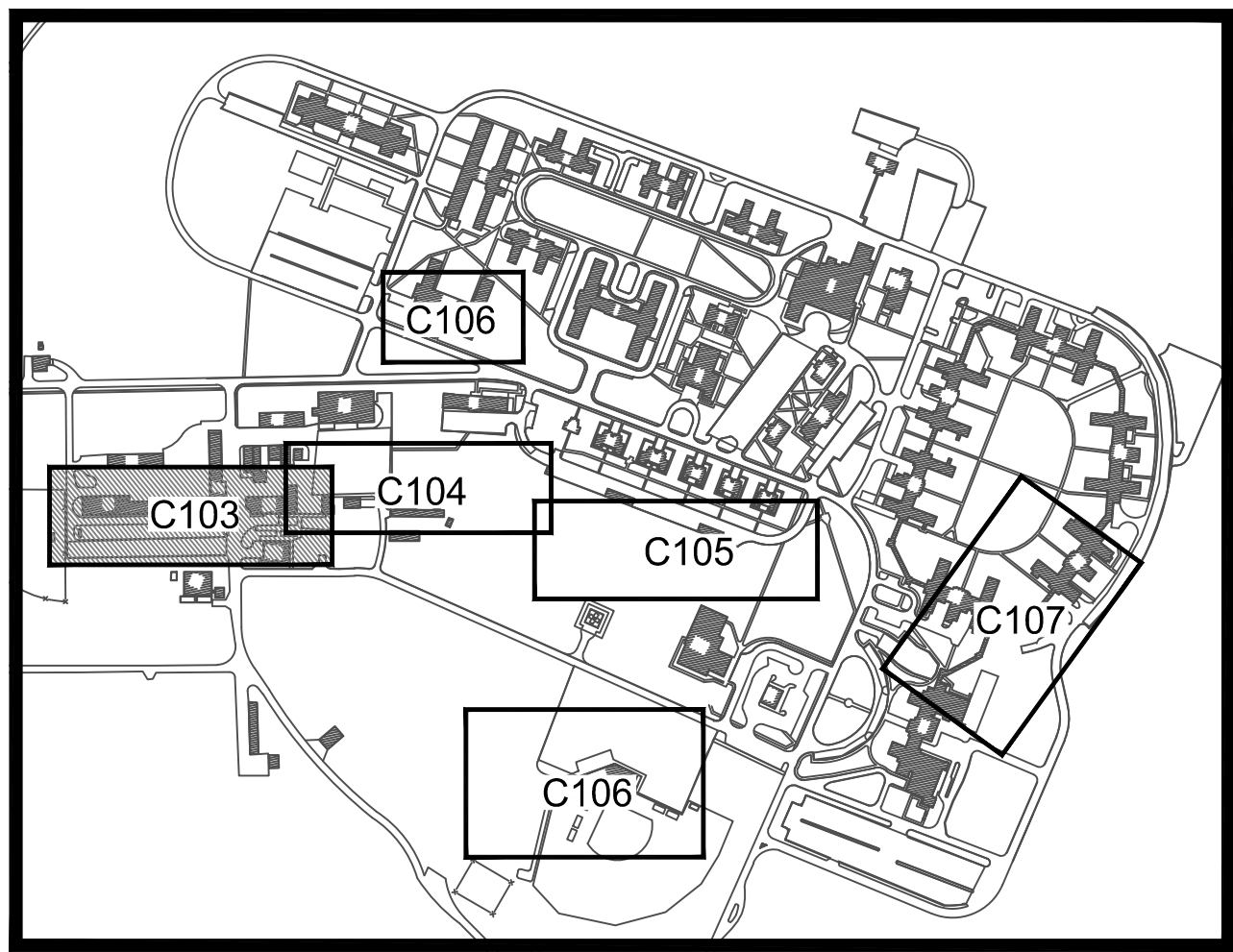


Each inch = one foot



one eighth inch = one foot

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
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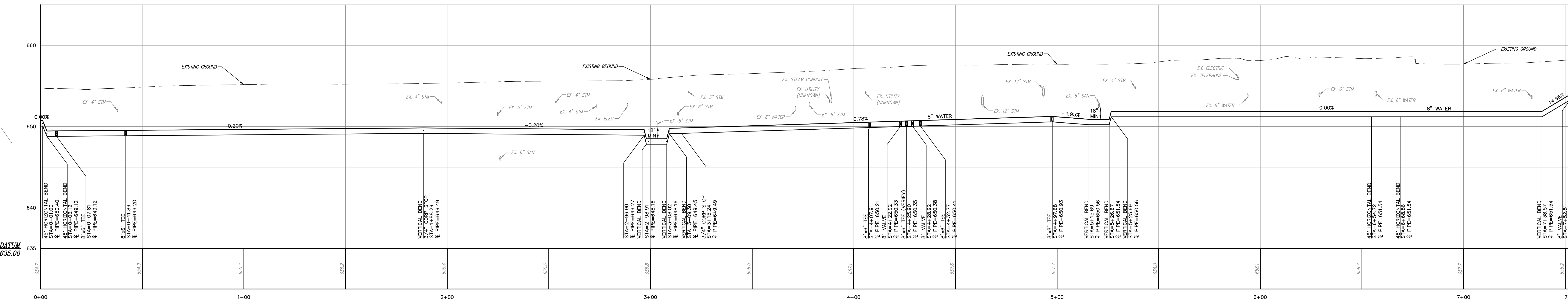
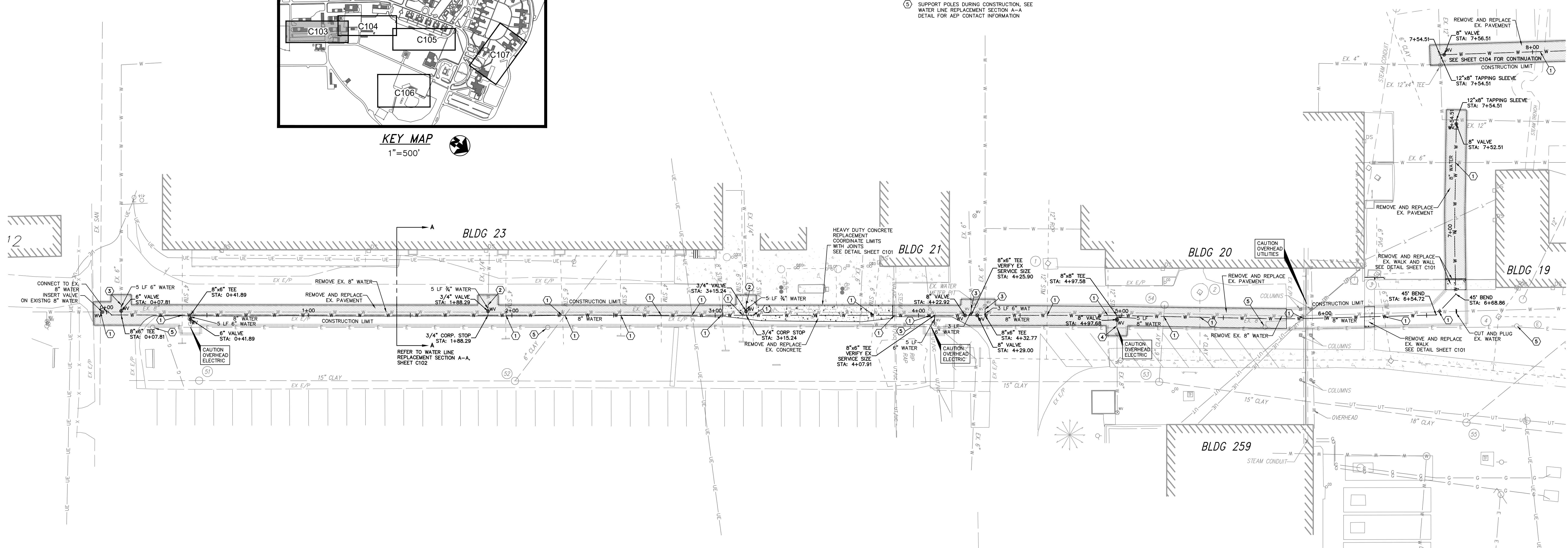
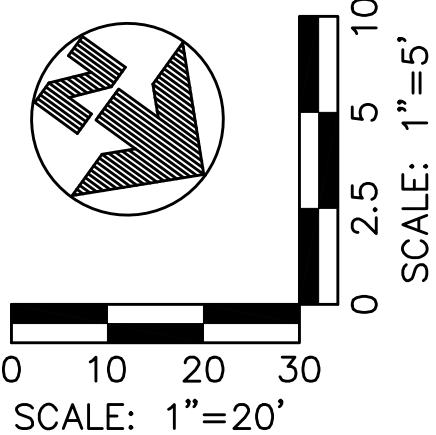
KEY MAP  
1"=500'

CODED NOTES:

- 1 EXPOSE CROSSING UTILITY
- 2 CONNECT TO EXISTING 3/4" WATER
- 3 CONNECT TO EXISTING 6" WATER
- 4 CONNECT TO EXISTING 8" WATER
- 5 SUPPORT POLES DURING CONSTRUCTION, SEE WATER LINE REPLACEMENT SECTION A-A DETAIL FOR AEP CONTACT INFORMATION

NOTES:

1. CONTRACTOR SHALL LOCATE, EXPOSE AND VERIFY SIZE OF ALL EXISTING UTILITIES NEAR PROJECT LIMITS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE THE COTR WITH INFORMATION PROVIDED BY THE CONTRACTOR'S UNDERGROUND UTILITY LOCATING SERVICE TO CONFIRM UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION ACTIVITIES.



UNDERGROUND UTILITIES

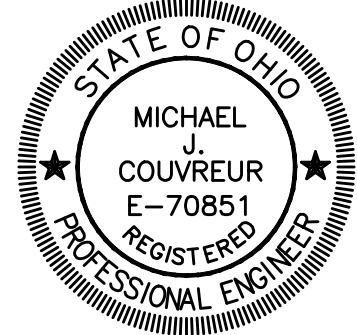
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CONSULTANTS:



319 Windsor Park Dr., Centerville, Ohio 45509  
Phone: (513) 435-7322 Fax: (513) 435-4685  
Email: engineers@contechdesign.com Engineer Project # 12008



ARCHITECT/ENGINEERS:



33 West First Street Suite 440  
Dayton, Ohio 45402  
P: 937.222.4585 F: 937.222.4520  
E: asa@asaohio.com



350 Worthington Rd. Suite B, Westerville, OH 43082  
(614) 882-4311 Fax: (614) 882-4479  
www.kleingers.com

Drawing Title

WATER LINE PLAN AND PROFILE

Approved: Project Director

Signature line for Project Director approval.

Project Title

REPLACE WATER MAINS

Location

CHILLICOTHE

Date

12/20/2012

Checked

MJC

Drawn

KLW

Project Number

VA # 638-12-116

ASA # 1252

Building Number

Drawing Number

C103

Dwg. 3 of XX

FOR CONSTRUCTION

Office of  
Construction  
and Facilities  
Management

Department of  
Veterans Affairs



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A

B

C

D

E

F

A

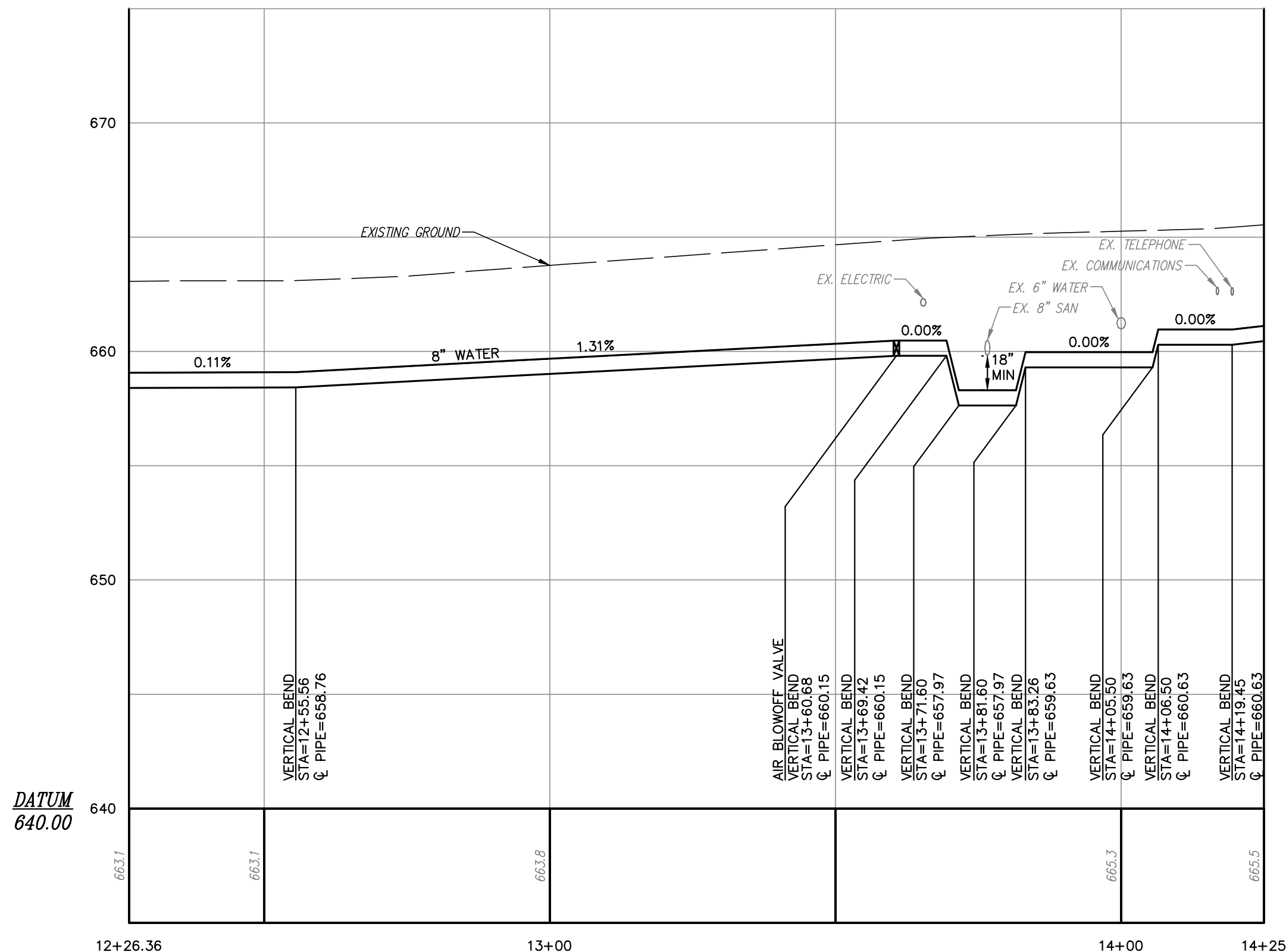
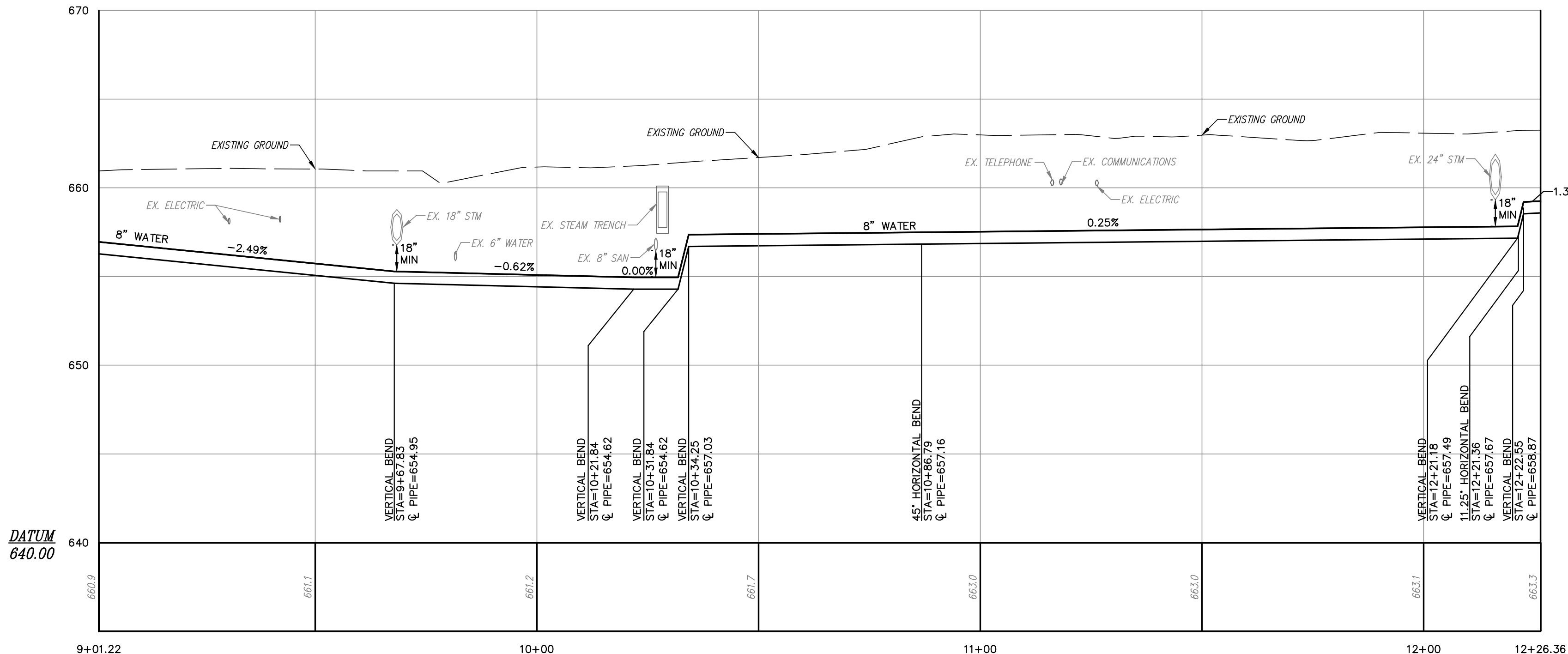
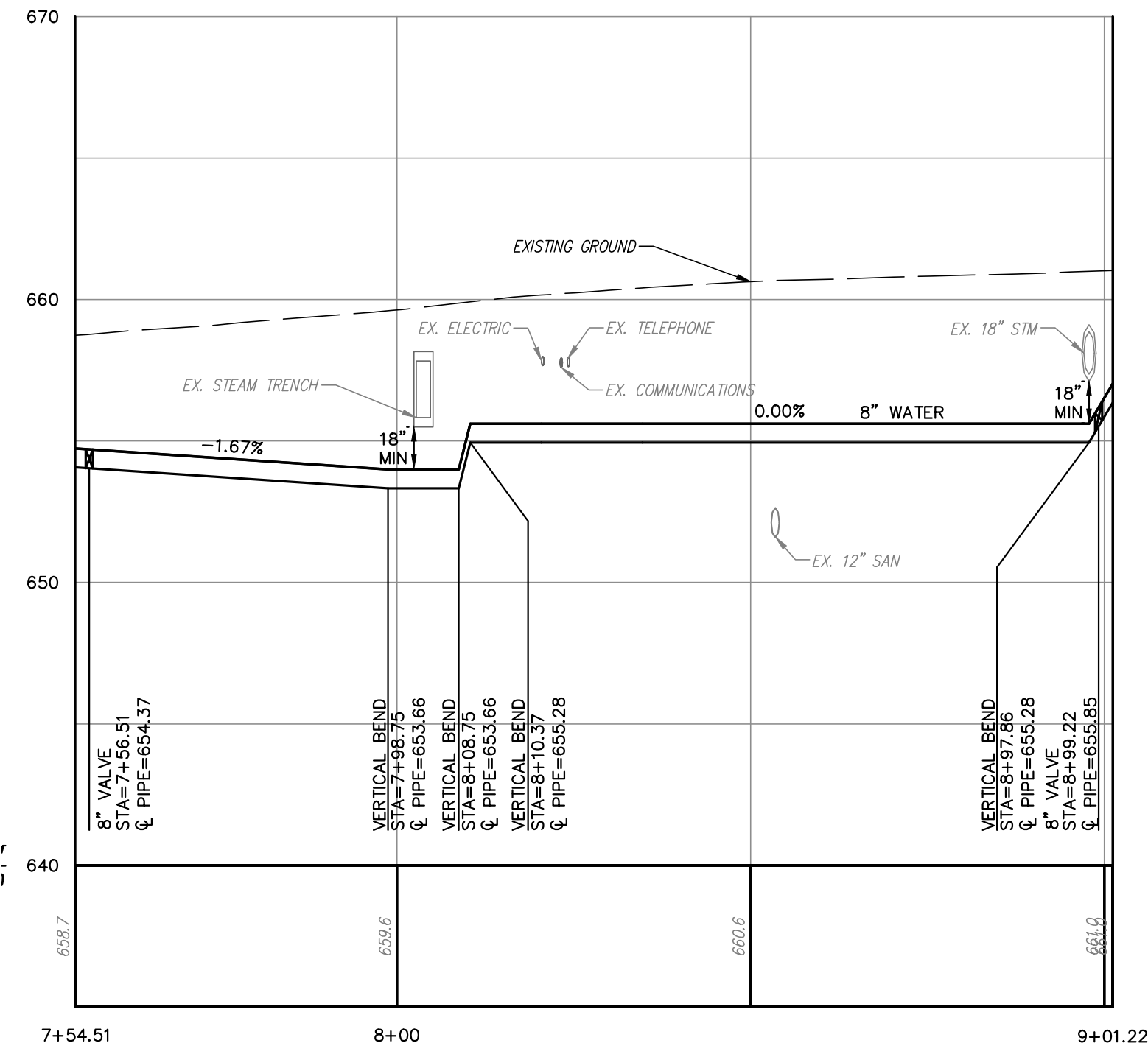
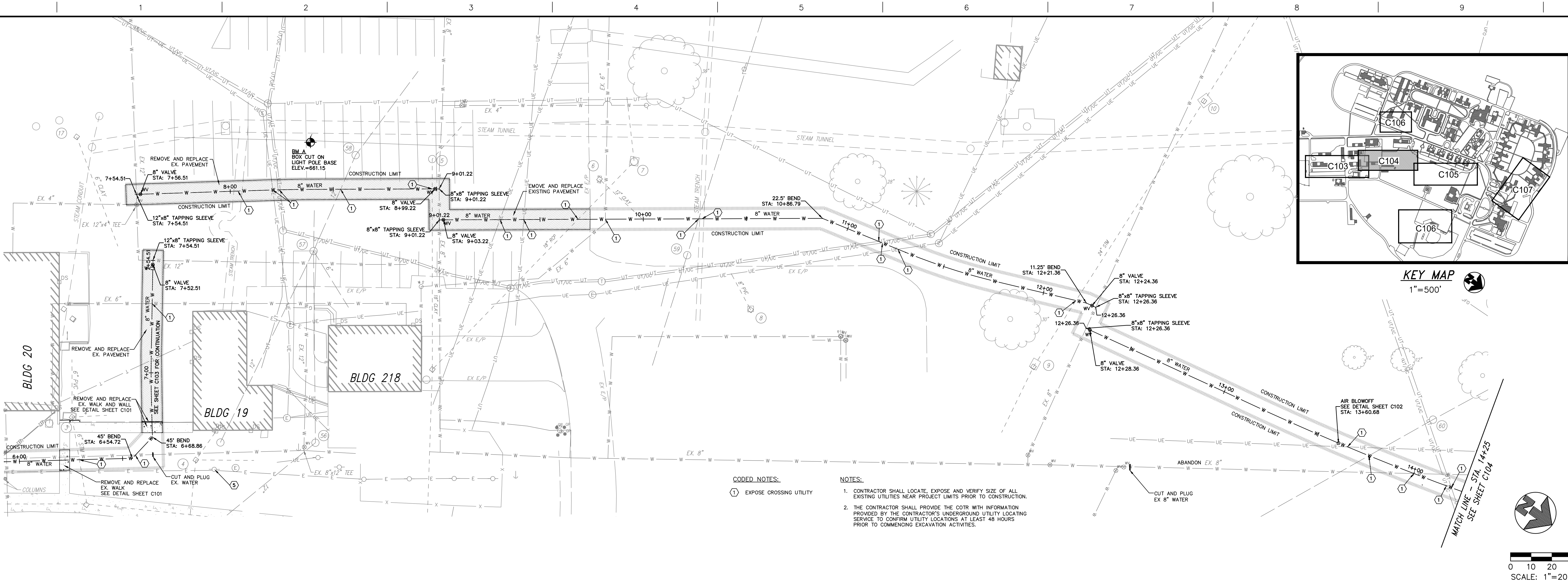
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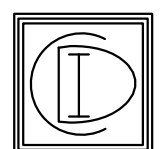
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35% SCHEMATIC DESIGN	09/18/12
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### CONSULTANTS:



**CONTECH DESIGN, INCORPORATED**  
Consulting Professional Engineers

519 Windsor Park Dr., Centerville, Ohio 45459  
Phone: (513) 435-1722 Fax: (513) 435-4685  
Email: engineers@contechdesign.com Engineer Project # 12008



### ARCHITECT/ENGINEERS:

**ASA**  
ALAN SOBER ASSOCIATES  
33 West First Street Suite 440  
Dayton, Ohio 45402  
P: 937.222.4585 F: 937.222.4520  
E: asa@asaohio.com

**KLEINGERS & ASSOCIATES**  
350 Worthington Rd. Suite B, Westerville, OH 43082  
(614) 882-4311 Fax: (614) 882-4479  
www.kleingers.com

### Drawing Title

WATER LINE PLAN AND PROFILE

Approved: Project Director

-

-

-

### Project Title

REPLACE WATER MAINS

Location

CHILLICOTHE

OH

Date

12/20/2012

Checked

MJC

Drawn

KLW

### Project Number

VA # 638-12-116

ASA # 1252

Building Number

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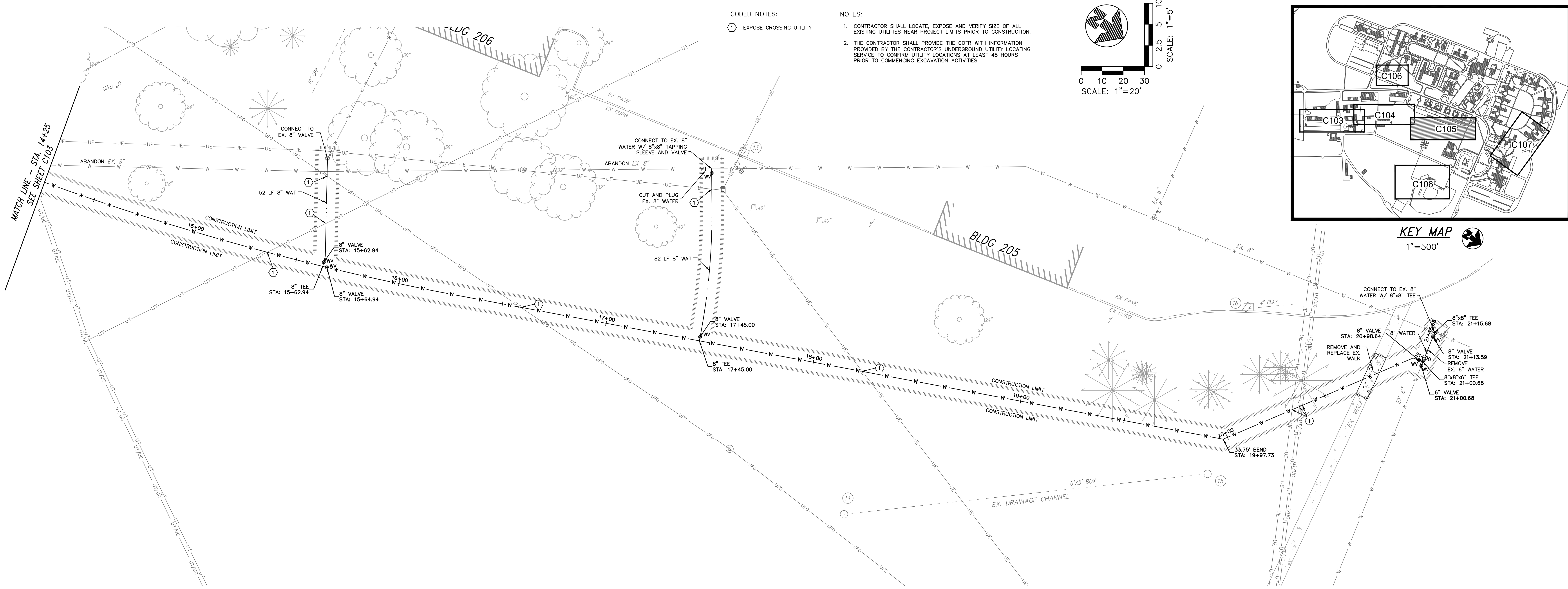
C104

Dwg. 4 of XX

Office of  
Construction  
and Facilities  
Management



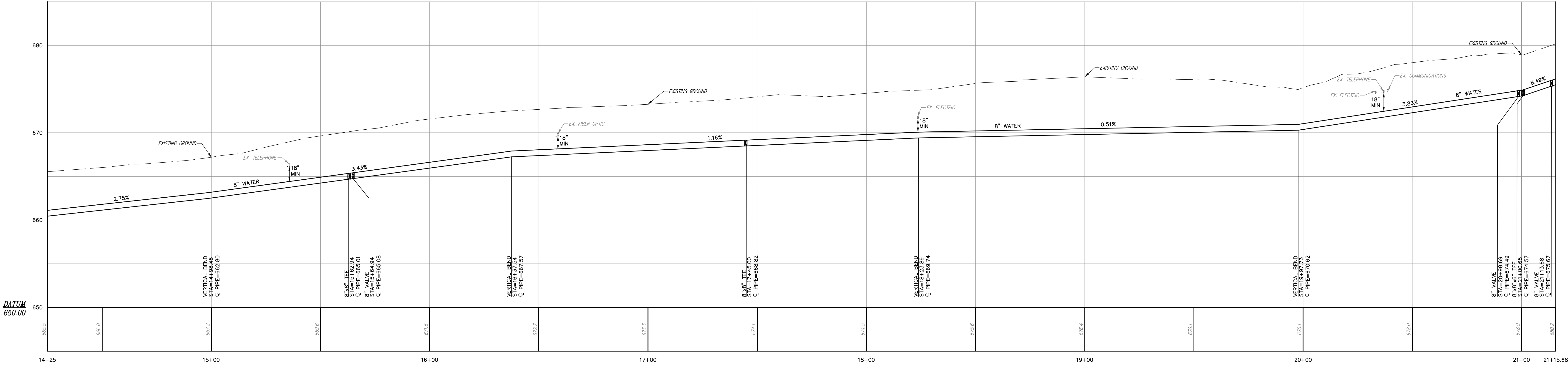
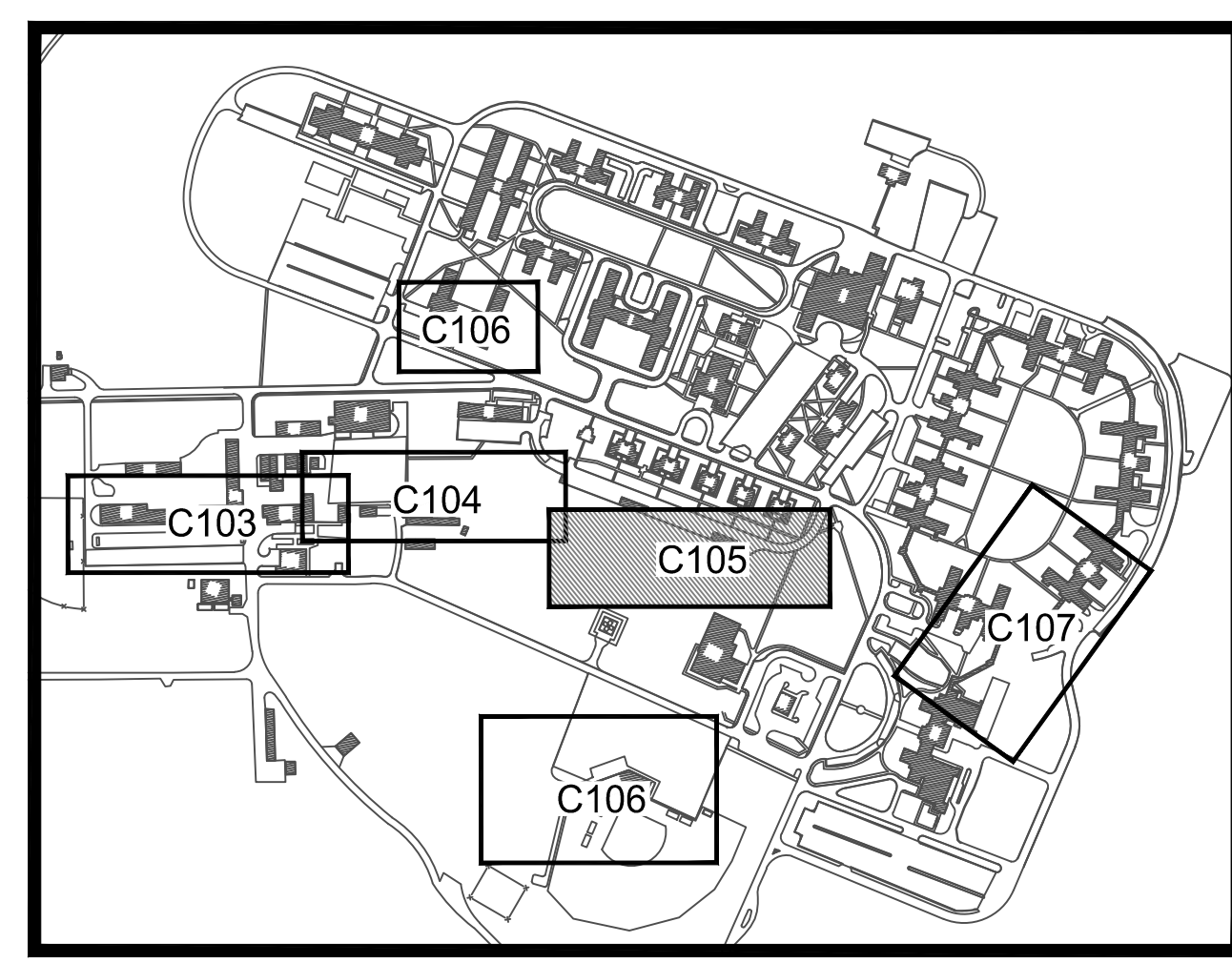
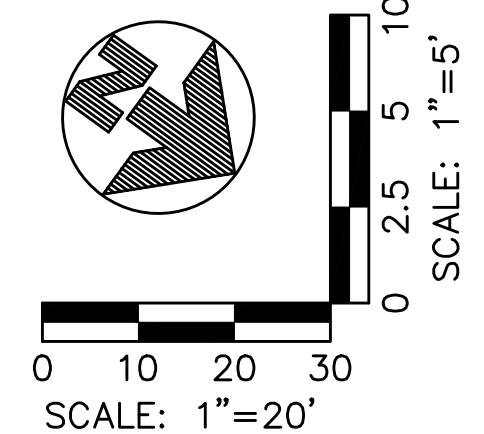
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CODED NOTES:  
① EXPOSE CROSSING UTILITY

NOTES:

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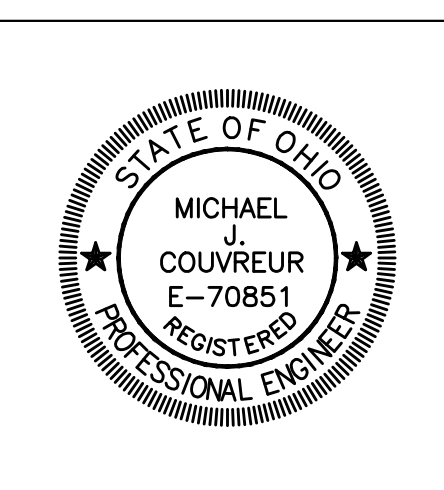
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WATER LINE PLAN AND PROFILE

**Approved: Project Director**  
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\_\_\_\_\_

**Project Title**  
REPLACE WATER MAINS

**Location**  
CHILLICOTHE OH

**Date**  
12/20/2012

**Checked**  
MJC

**Drawn**  
KLW

**Project Number**  
VA # 638-12-116  
ASA # 1252

**Building Number**

**Drawing Number**  
**C105**  
Dwg. 5 of XX

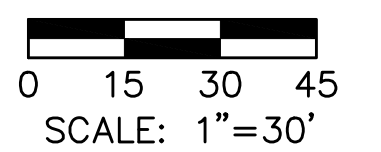
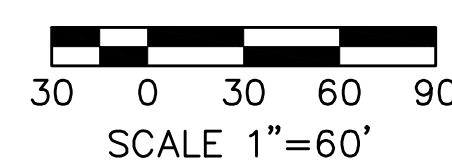
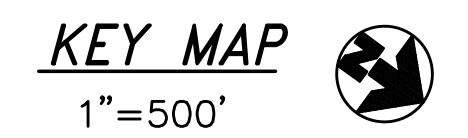
**Office of Construction and Facilities Management**

**Department of Veterans Affairs**






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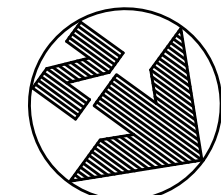
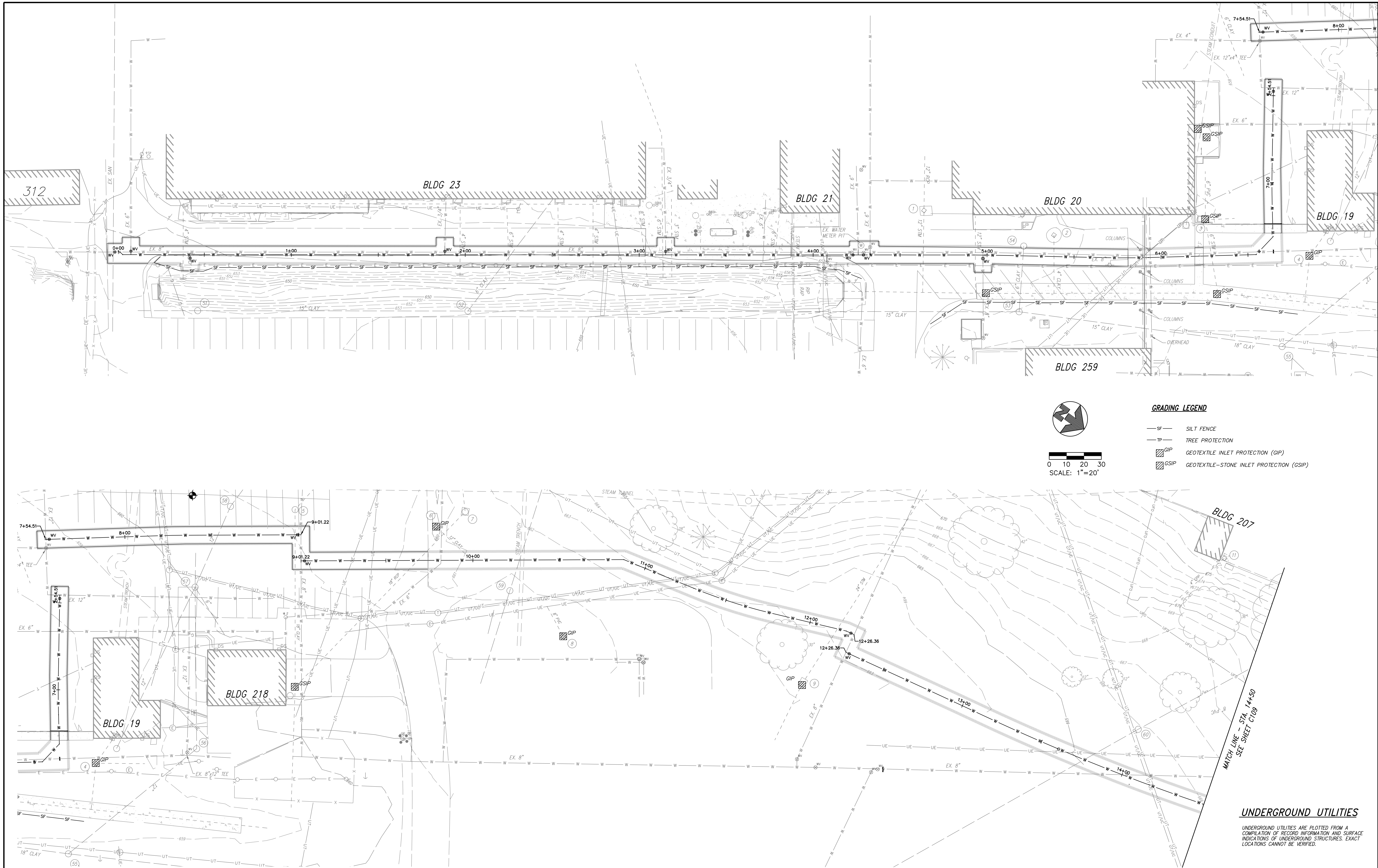
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90% CONSTRUCTION DOCUMENTS RE-SUBMITTAL	11/21/2012						WATER LINE PLAN	REPLACE WATER MAINS	VA # 538-12-116 ASA # 1252	
90% CONSTRUCTION DOCUMENTS	10/22/2012						Approved: Project Director	Location	Drawing Number	
35% SCHEMATIC DESIGN	09/18/12						-	CHILLICOTHE OH	C106	
							-		Dwg. 6 of xx	
		-					Date	Checked	Drawn	
							12/20/2012	MJC	KLW	
Revisions:	Date									





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one quarter inch = one foot  
one eighth inch = one foot



0 10 20 30  
SCALE: 1"=20'

- GRADING LEGEND**
- SF SILT FENCE
  - TP TREE PROTECTION
  - GIP GEOTEXTILE INLET PROTECTION (GIP)
  - GSIP GEOTEXTILE-STONE INLET PROTECTION (GSIP)

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**CONSULTANTS:**



**ARCHITECT/ENGINEERS:**



**Drawing Title**

EROSION AND SEDIMENT CONTROL PLAN

**Approved: Project Director**

---

**Project Title**

REPLACE WATER MAINS

**Location**

CHILLICOTHE

OH

**Date**

12/20/2012

**Checked**

MJC

**Drawn**

KLW

**Project Number**

VA # 638-12-116

ASA # 1252

Building Number

**Drawing Number**

C108

Dwg. 8 of XX

Office of  
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Management











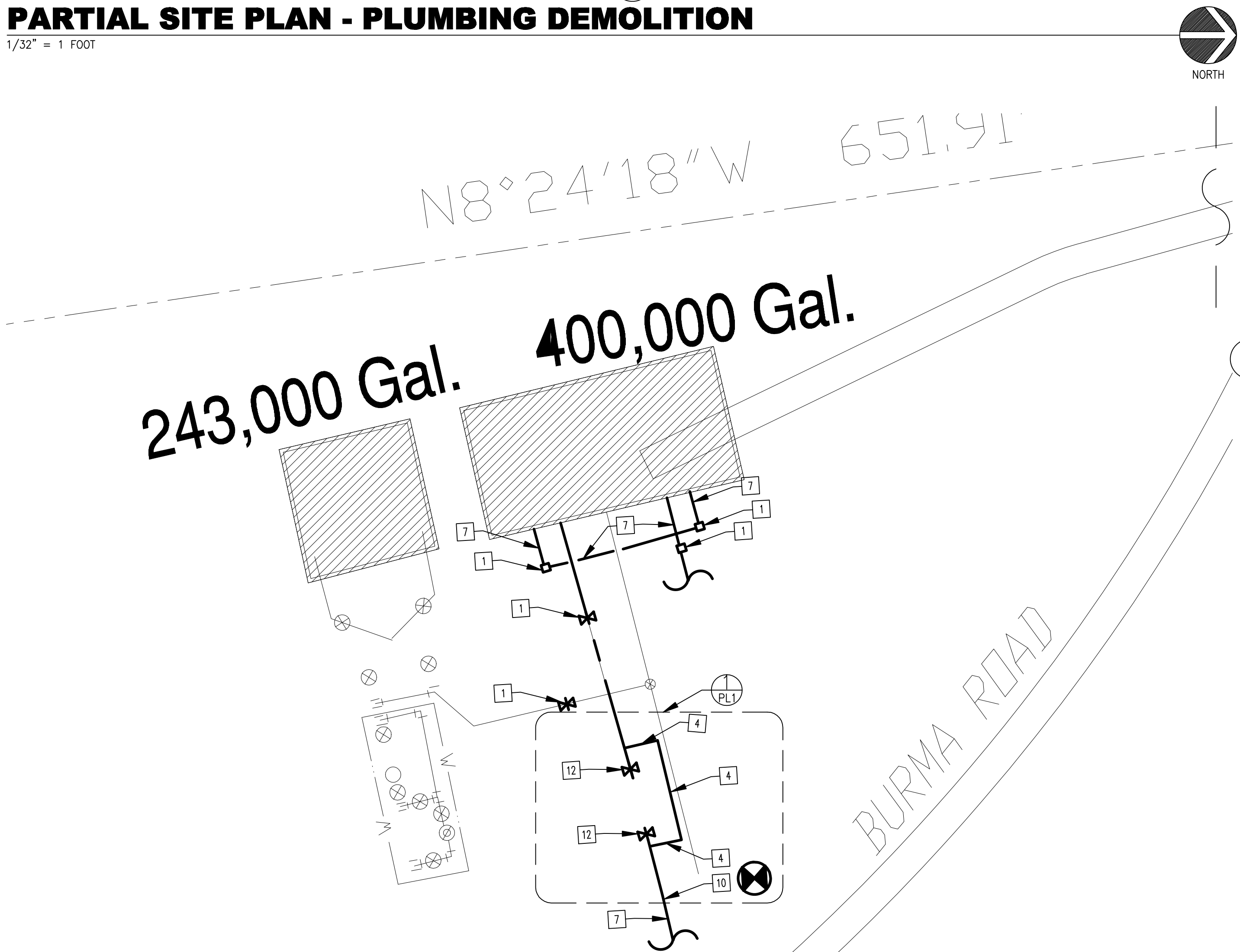


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2012 Projects\2009 - ASH VA Chillsone Replace Water Mains Drawings\12009 100% Pkg. Sheet PL 1.dwg 12-19-12 12:34:23 PM mbhattacharjee

## PARTIAL SITE PLAN - PLUMBING DEMOLITION

1/32" = 1 FOOT



## PARTIAL SITE PLAN - PLUMBING NEW WORK

1/32" = 1 FOOT



## 1. PIPING AND ALTITUDE VALVE DETAIL - DEMO AND NEW WORK

SCALE: NONE

### DETAIL NOTES

- REMOVE EXISTING 12" GATE VALVE AND INSTALL NEW IDENTICAL 12" GATE VALVE. CONTRACTOR IS ADVISED THAT THIS LINE IS LIVE, AND THAT THIS SHALL BE A LIVE TAP.
- TAP EXISTING 12" DCI WATER MAIN. CONTRACTOR IS ADVISED THAT THIS LINE IS LIVE, AND THAT THIS SHALL BE A LIVE TAP.
- INSTALL NEW 12" DCI PIPE DIVERTED AROUND EXISTING ALTITUDE VALVE PIT. PRIOR TO DISCONNECTING ALTITUDE VALVE, TEST NEW WATER LINE. SUCCESSFULLY COMPLETE TEST PRIOR TO ANY WORK ON EXISTING ALTITUDE VALVE PIT.
- EXISTING ALTITUDE VALVE PIT SHALL BE ABANDONED-IN-PLACE. CONTRACTOR SHALL REMOVE EXISTING PIT COVER AND MAY SALVAGE ANY INTERNAL COMPONENTS AT HIS OPTION. CONTRACTOR SHALL COMPLETELY FILL EXISTING PIT WITH CONCRETE, TO THE TOP OF THE PIT AND MAN HOLE COVER.
- DISCONNECT AND ABANDON PIPE BETWEEN NEW 12" GATE VALVE AND EXISTING ALTITUDE VALVE PIT.
- INSTALL NEW 12" GATE VALVE IN LINE PRIOR TO ABANDONING PIPE.
- INSTALL NEW 12" GATE VALVE AT THIS LOCATION. CONTRACTOR IS ADVISED THAT THIS LINE IS LIVE, AND THAT THIS SHALL BE A LIVE TAP.
- PROVIDE NEW THRUST BLOCKS, CALCULATE PER MANUFACTURER'S REQUIREMENTS. SEE SHEET C-102.
- FROM EXISTING 400,000 GALLON TANK.
- FROM EXISTING 243,000 GALLON TANK.
- TO CAMPUS DOMESTIC WATER SYSTEM.
- EXISTING ALTITUDE VALVE PIT.

### SPECIAL NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, HORIZONTALLY AND VERTICALLY, ALL UTILITIES WITHIN THE PROJECT LIMITS. ANY CONFLICTS WITH THE PROPOSED WORK SHALL BE DOCUMENTED AND FORWARDED TO THE COTR PRIOR TO INSTALLATION. ANY DAMAGE TO THE EXISTING UTILITIES, WHETHER THE UTILITIES ARE SHOWN ON THIS PLAN OR NOT SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

## GENERAL NOTES - PLUMBING

- WORK SEQUENCE: INSTALLATION OF GATE VALVES AND NEW 12" DCI PIPE SHALL BE INSTALLED, REVIEWED, AND INSPECTED BY COTR PRIOR TO ABANDONMENT OF EXISTING ALTITUDE VALVE PIT.
- AREA OF WORK NOTES:
  - CONTRACTOR TO CLEAR AND GRUB AREA OF WORK. REMOVE EXISTING TREES, STUMPS, UNDERBRUSH, AND DEBRIS. DISPOSE OF MATTER OFF-SITE.
  - UPON COMPLETION OF CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR REGRADING AREA FOR PROPER DRAINAGE AND REPLACING ANY GRAVEL REMOVED AS A RESULT OF CONSTRUCTION. MATCH EXISTING MATERIALS.
- ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. FAILURE TO ADHERE TO THIS REQUIREMENT MAY REQUIRE THE ENGINEER'S TIME TO REVIEW AND RESOLVE RESULTING ISSUES. CHANGES TO THE DRAWINGS WILL BE BILLED TO THE CONTRACTOR FOR PAYMENT.
- THE PLUMBING CONTRACTOR (PC) SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS OF ALL TRADES PRIOR TO BID. THE PC WILL BE RESPONSIBLE FOR ALL OF THE PLUMBING WORK MENTIONED IN THE OTHER TRADES' DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS, AND SAFETY REGULATIONS.
- THE DRAWINGS AND SPECIFICATIONS DO NOT SHOW OR SPECIFY EVERY SINGLE COMPONENT MAKING UP A PARTICULAR SYSTEM. IT IS INCUMBENT ON THE EC TO STUDY THE DRAWINGS, OBTAIN CLARIFICATION FROM THE ENGINEER PRIOR TO BID, AND INCLUDE THE COST IN THE BASE BID.
- IF SHUTDOWNS OF THE CAMPUS WATER SYSTEM ARE REQUIRED FOR THE INSTALLATION OF THIS WORK, THE CONTRACTOR SHALL COORDINATE WITH THE VA COTR WITH A MINIMUM 72-HOURS NOTICE.
- EXISTING TANKS, VALVES, AND PITS ARE LOCATED BELOW-GRADE. APPROXIMATE ALTITUDE VALVE PIT EL. 815.

## DRAWING NOTES - PLUMBING

- DEMOLISH AND REPLACE ISOLATION / GATE VALVE.
- SENSING LINE. ABANDON IN-PLACE.
- EXISTING ALTITUDE VALVE PIT. SEE DETAIL THIS SHEET.
- NEW 12" PIPE - DUCTILE IRON. TO MATCH PIPING ON EITHER SIDE OF EXISTING ISOLATION VALVES.
- EXISTING TANKS ARE LOCATED IN LOCKED, SECURED AREA. COORDINATE WITH CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) FOR ACCESS.
- EXISTING UNDERGROUND WATER STORAGE TANK(S).
- PIPING IS EXISTING TO REMAIN.
- PROTECT EXISTING PIPE CULVERT.
- CONNECTION POINT OF SENSING LINE FROM TANK TO ALTITUDE VALVE PIT.
- CONNECTION POINT OF NEW PIPING TO EXISTING 12" CAMPUS MAIN WATER LINE.
- APPROXIMATE AREA OF EXISTING GRAVEL DRIVEWAY.
- NEW ISOLATION / GATE VALVE.

## LEGEND - PLUMBING (NOT ALL ARE USED)





CWS	COMBINATION FIRE AND DOMESTIC WATER SERVICE	SHUT-OFF VALVE	COMBINATION BALANCE/ SHUT-OFF VALVE
WS	DOMESTIC WATER SERVICE	SHUT-OFF VALVE ON DROP	SHUT-OFF VALVE ON RISER
WTR	WATER MAIN	PRESSURE GAUGE	
NPW	NON-POTABLE COLD WATER		
PIPE DROP		GRADE CLEANOUT	
PIPE RISER		ABOVE FINISH GRADE	
DIRECTION OF PITCH		INVERT ELEVATION	
DIRECTION OF FLOW		DRAWING NOTES	
UNION		DETAIL NOTES	
CHECK VALVE		CONNECT TO EXISTING	
SHUT-OFF VALVE			



## EXISTING SITE PHOTOS

SCALE: NONE

## FOR CONSTRUCTION

<b>CONSULTANTS:</b>		<b>ARCHITECT/ENGINEERS:</b>	
 CONTECH DESIGN, INCORPORATED Consulting Professional Engineers 319 Windsor Park Dr., Centerville, Ohio 45849 Phone: (937) 425-3782 Fax: (937) 425-4665 Email: engineers@contechdesign.com Engineer Project # 12009		 SA 33 West First Street, Suite 440 Dayton, Ohio 45402 P: 937.222.4585 F: 937.222.4520 E: sa@sasohio.com	
			
<b>100% CONSTRUCTION DOCUMENTS</b> 12/20/2012		<b>Drawing Title</b> <b>PLUMBING DEMOLITION AND NEW WORK</b>	
<b>90% DESIGN DOCUMENTS RE-SUBMITTAL</b> 12/17/2012		<b>Project Title</b> <b>REPLACE WATER MAINS</b>	
<b>35% SCHEMATIC DESIGN SUBMITTAL</b> 09/14/2012		<b>Location</b> <b>CHILLICOTHE OH</b>	
<b>Revisions:</b>		<b>Approved Project Director</b> - - -	
<b>Date</b>		<b>Date</b> 12/20/2012	
		<b>Checked</b> PNS	
		<b>Drawn</b> RKS	
		<b>Dwg. 10 of 10</b>	
		<b>Office of Construction and Facilities Management</b>	
		