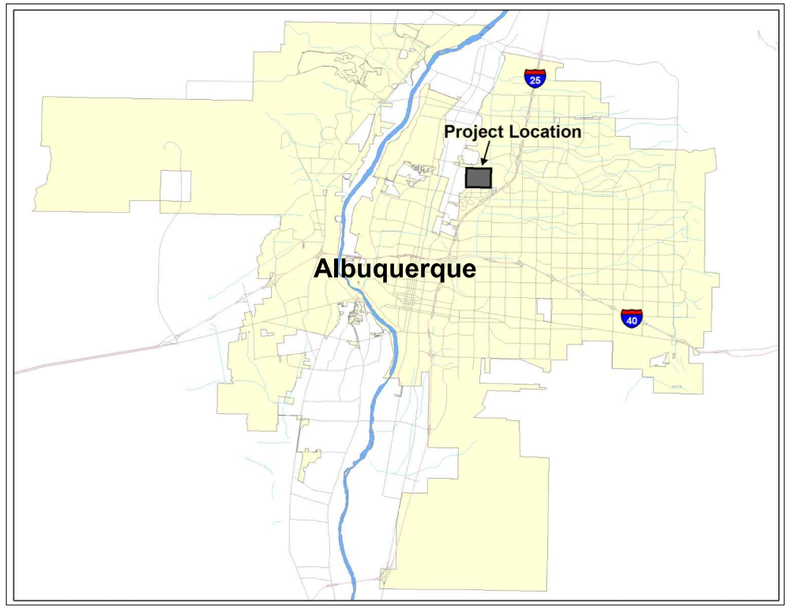
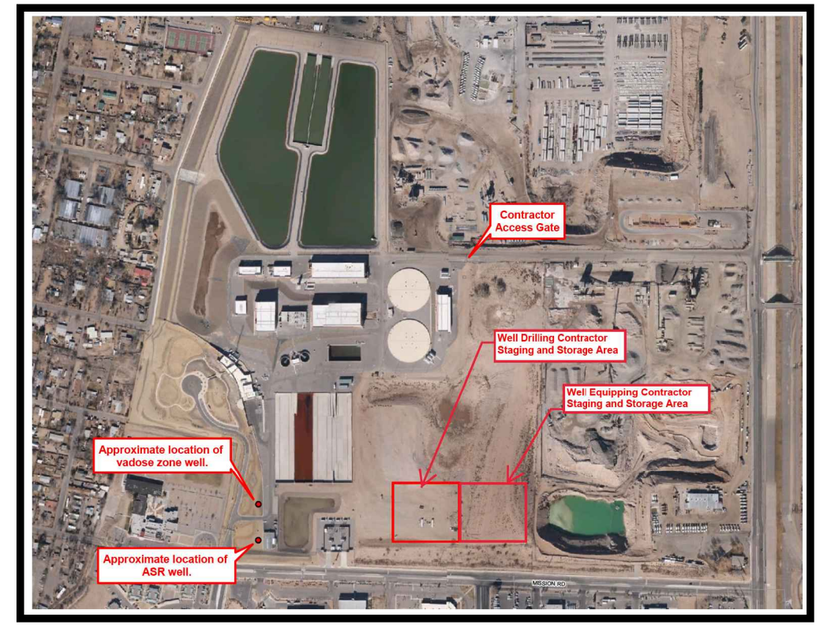


VICINITY MAP NORTH
NTS



SITE MAP NORTH
NTS

DRINKING WATER TREATMENT PLANT
LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT COMFORMED DOCUMENT

ALBUQUERQUE, NEW MEXICO

PREPARED FOR : Albuquerque Bernalillo County Water Utility Authority

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTED BY DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
MICHAEL A. BREWER NEW MEXICO 14626 PROFESSIONAL ENGINEER
3/9/18

NO.	DATE	REMARKS	BY

REVISIONS

CH2MHILL

DESIGNED BY	MAB	DATE 04/2014
DRAWN BY	EJA	DATE 04/2014
CHECKED BY	AMF	DATE 04/2014

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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT

TITLE SHEET

Design Review Committee	ABCWUA Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

VERIFY SCALES
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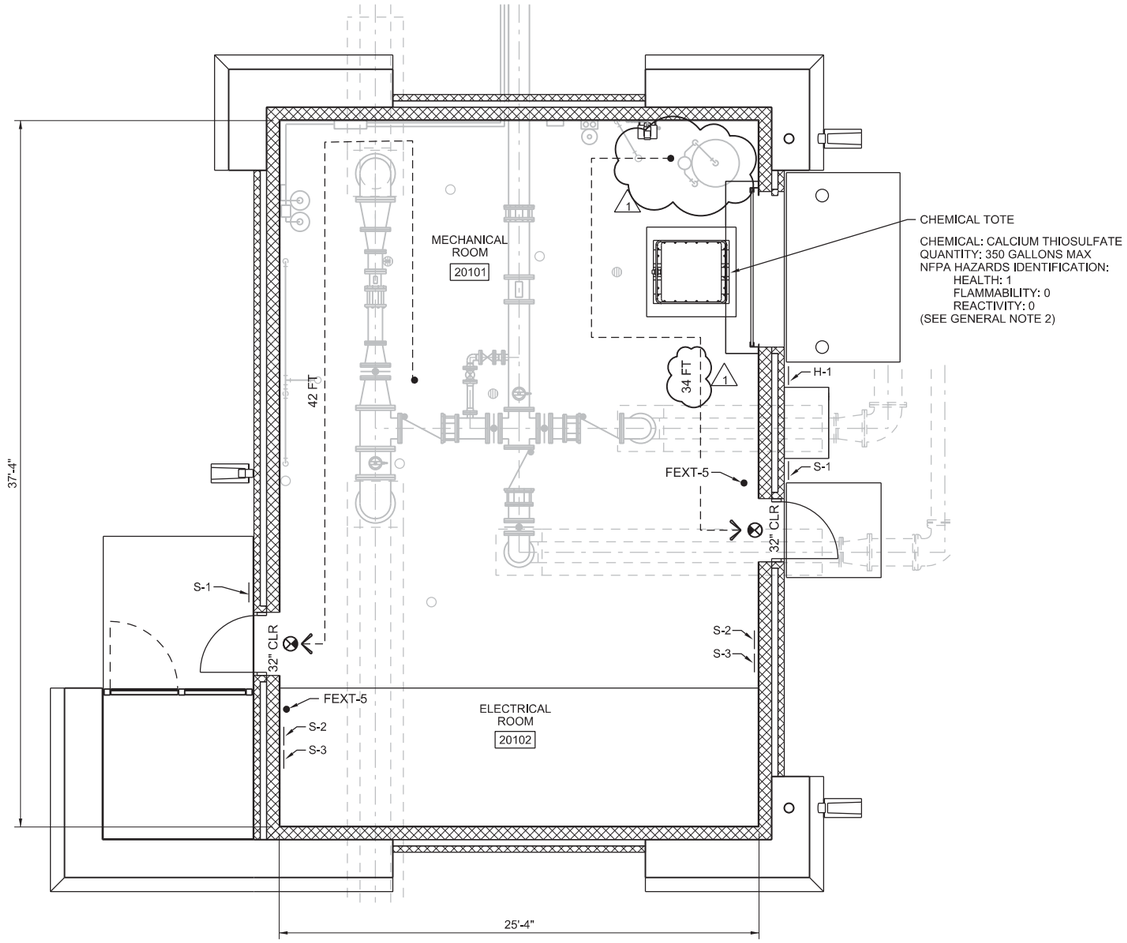
ABCWUA Project No.	Zone Map No.	Sheet 1 Of 78
7893.188XX	F16	01-G-01

ISSUED FOR CONSTRUCTION



LIFE SAFETY PLAN

1/4"=1'-0"

N

GENERAL NOTES:

1. ALL SIGNS TO BE INSTALLED FOR CLEAR VISIBILITY AS DIRECTED BY OWNER OR ENGINEER.
2. CALCIUM THIOSULFATE IS NOT CONSIDERED A HAZARDOUS MATERIAL PER IBC DEFINITION.

LIFE SAFETY LEGEND:

- 45 FT — TRAVEL DISTANCE (TD) TO EXIT
- 32" — EGRESS WIDTH (IN INCHES)
- FEXT-5 — FIRE EXTINGUISHER WITH MOUNTING BRACKET SEE SPECIFICATION SECTION 10 44 00.
- EXIT LIGHT, ONE SIDED
- S-X — SIGNAGE IDENTIFIER. SEE SIGNAGE SPECIFICATION SECTION 10 14 00

CODE DATA

SEE APPLICABLE CODES

BUILDING: WELL BUILDING

PROJECT: ABCWUA WTP 6000 ALEXANDER BLVD. NE ALBUQUERQUE, NM 87107	ARCHITECT: CH2MHILL 3721 RUTLEDGE ROAD NE SUITE B1 ALBUQUERQUE, NM 87109

GENERAL INFORMATION

USE AND OCCUPANCY CLASSIFICATION (CHAPTER 3)	MODERATE-HAZARD FACTORY INDUSTRIAL, GROUP F-1 (1)
CONSTRUCTION CLASSIFICATION (602 & TABLES 504.3, 504.4 &506.2)	VB

AREA AND HEIGHT LIMITATIONS

MAXIMUM ALLOWABLE AREA (TABLE 506.2)		8,500 SF (1)
ACTUAL NET AREA:		940 SF
ACTUAL PER FLOOR:	BASEMENT	N/A
	FIRST	940 SF
	SECOND	N/A
MAXIMUM ALLOWABLE STORIES (TABLE 504.4)		1 (1)
ACTUAL NUMBER OF STORIES:		1
MAXIMUM ALLOWABLE HEIGHT (TABLE 504.3)		40 FT
ACTUAL HEIGHT:		16'-0"

OCCUPANCY / EGRESS INFORMATION

DESIGN OCCUPANCY (TABLE 1004.1.2, MECHANICAL EQUIP. RM.)	940/300=4
EGRESS WIDTH BASED ON OCCUPANCY (SECTION 1005 & 1010.1.1)	PROVIDED 32" CLEAR

EXIT REQUIREMENTS

REQUIRED EXITS (TABLE 1006.2.1)	1 (2 PROVIDED)
MAX. TRAVEL DISTANCE ALLOWED: (TABLE 1017.2)	200 FT (1)
MAX. COMMON PATH TRAVEL: (TABLE 1006.2.1)	75 FT
ALLOWABLE DEAD END LENGTH (1020.4)	NA
MIN. PLUMBING FACILITIES (SECTION 2902)	
TRAVEL DISTANCE EXCEPTION (LOCAL FACILITY PROVIDED) (2902.3.2)	APPROVED BY OFFICIAL:

SIGNAGE

EXIT SIGNS:	2
HAZARD PLACARDS:	SEE PLAN AND SPECIFICATIONS
ELEVATOR/STAIRS:	NA
ACCESSIBLE ELEMENTS: (1103.2.9)	NA
DANGER/ WARNING/ CAUTION:	SEE PLAN AND SPECIFICATIONS
TRAFFIC/ PARKING SIGNS:	NA

REQUIRED FIRE RESISTANT RATINGS

BUILDING ELEMENTS (TABLE 601)	
STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR
OCCUPANCY SEPARATIONS (508.3.3)	N/A
NON-SEPARATED USE (508.3)	N/A
FIRE SEPARATION DISTANCE (TABLE 602)	+ 30 FT = 0 HR
DISTANCE FROM ADJACENT BUILDING OR PROPERTY LINE	+ 30 FT

FIRE PROTECTION

SPRINKLERS (IBC SECT 903)	NOT REQUIRED
FIRE EXTINGUISHERS (SECT 906)	PROVIDED
EXIT LIGHTING	PROVIDED

INSULATION REQUIREMENTS

INSULATION (R-VALUE):	
ROOF:	30
WALLS:	19
DOORS:	SEE SPECIFICATIONS

APPLICABLE CODES:

NEW MEXICO CODES:

2015 NEW MEXICO COMMERCIAL BUILDING CODE
2014 NEW MEXICO ELECTRICAL CODE
2009 STATE OF NEW MEXICO ENERGY CONSERVATION CODE
2012 NEW MEXICO MECHANICAL CODE
2012 NEW MEXICO PLUMBING CODE

NATIONAL CODES:

2015 INTERNATIONAL CODES
2014 NATIONAL ELECTRICAL CODE
2012 UNIFORM MECHANICAL CODE
2012 UNIFORM PLUMBING CODE

CITY OF ALBUQUERQUE CODES:

2017 UNIFORM ADMINISTRATIVE CODE
UAC ORDINANCE O-17-40

AS-BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
FIELD CHANGES ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

BENCH MARKS

RECORDED BY — DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO — TIMOTHY M. DODGE — NO. 5210 — REGISTERED ARCHITECT — 5-9-18

NO.	DATE	CLARIFICATION FR. BUILDING DEPARTMENT COMMENTS	BY
1	05/2018	REMARKS	TD

REVISIONS

DESIGNED BY	BT	DATE 04/2014
DRAWN BY	PTD	DATE 04/2014
CHECKED BY	TMD	DATE 04/2014

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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT

BUILDING CODE DATA AND LIFE SAFETY PLAN

Design Review Committee	ABCWUA Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

VERIFY SCALES
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ABCWUA Project No.	Zone Map No.	Sheet	Of
7893.188XX	F16	7	78

01-G-07

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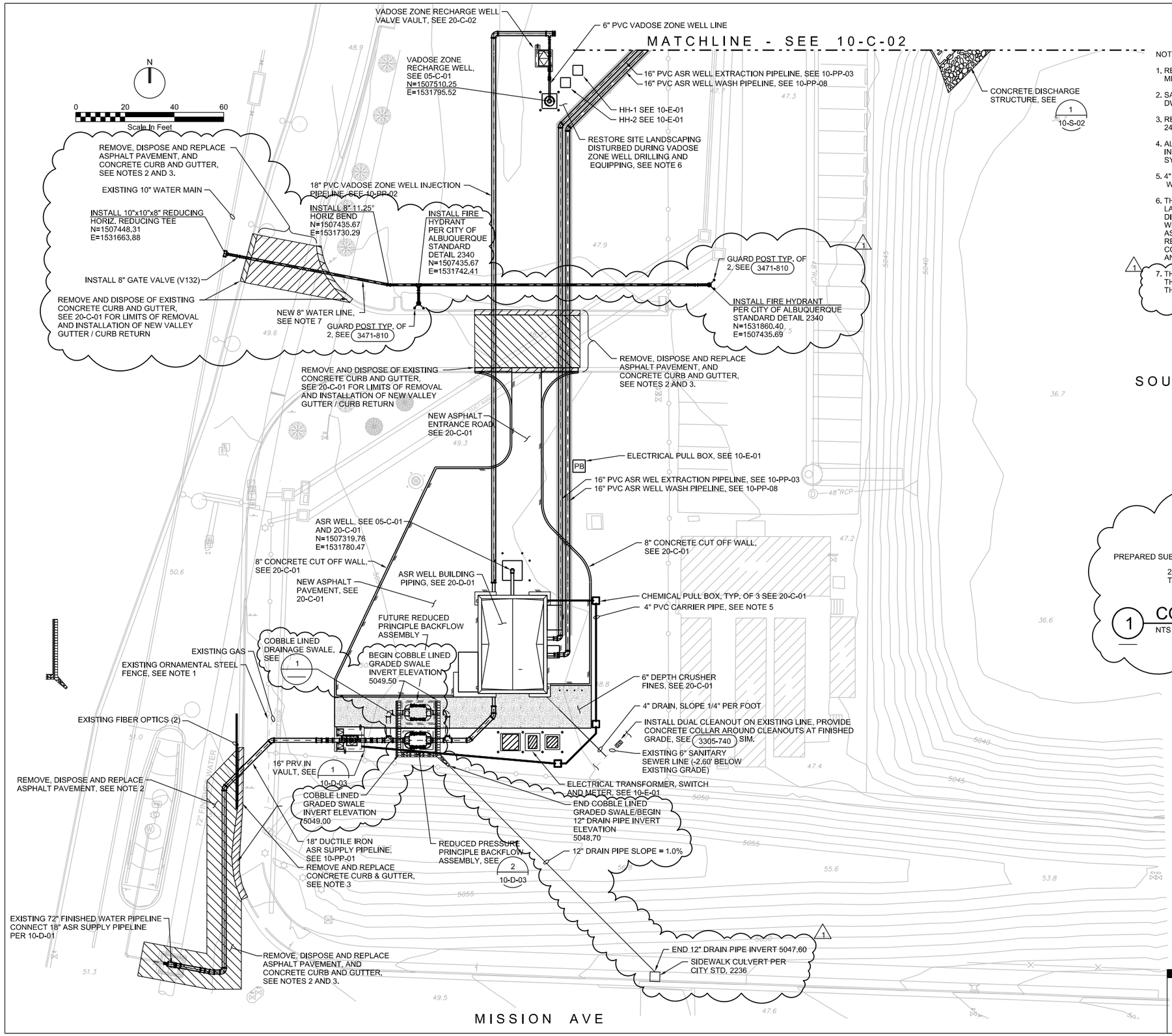
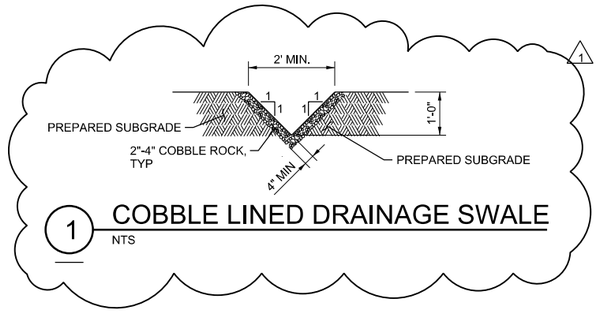


NOTES:

1. REMOVE, SALVAGE AND REINSTALL SECTION OF EXISTING ORNAMENTAL METAL FENCE AS NEEDED FOR PIPE INSTALLATION.
2. SAW CUT EXISTING PAVEMENT AND REPLACE PER CITY OF ALBUQUERQUE STD. DWG 2465. REPLACE DISTURBED PAVEMENT MARKING TO MATCH EXISTING.
3. REPLACE CONCRETE CURB AND GUTTER PER CITY OF ALBUQUERQUE STD. DWG. 2415A. REPLACEMENT CURB AND GUTTER TYPE TO MATCH EXISTING.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO MATCH EXISTING CONDITION INCLUDING BUT NOT LIMITED TO LANDSCAPING AND LANDSCAPE IRRIGATION SYSTEM.
5. 4" CARRIER PIPE SHALL BE INSTALLED TO DRAIN TO CHEMICAL PULL BOXES WITH 30" MINIMUM COVER, TYP.
6. THE WELL EQUIPPING CONTRACTOR SHALL REMOVE AND STOCKPILE EXISTING LANDSCAPE GRAVEL IN THE VICINITY OF THE VADOSE ZONE WELL AS DIRECTED BY ENGINEER. AFTER ALL VADOSE ZONE WELL WORK IS COMPLETED, WELL EQUIPPING CONTRACTOR SHALL GRADE THE VADOSE ZONE WELL SITE. AS SHOWN AND FURNISH NEW SPRINKLER SYSTEM COMPONENTS AS NEEDED TO RESTORE EXISTING SPRINKLER SYSTEM IMPACTED BY VADOSE ZONE WELL CONSTRUCTION AND REPLACE THE LANDSCAPE GRAVEL AND ADD TREES AND SHRUBS AS DIRECTED BY ENGINEER.
7. THE ENTIRE LENGTH OF THE NEW 8" WATER LINE SHALL BE RESTRAINED FROM THE CONNECTION TO THE EXISTING 10" WATER LINE TO THE FIRE HYDRANT AT THE EAST END OF THE WATER LINE.



1 COBBLE LINED DRAINAGE SWALE
NTS

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
RECORD DRAWING ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE

BENCH MARKS
RECORDED BY
DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
MICHAEL A. BREWER
NEW MEXICO
14426
PROFESSIONAL ENGINEER
5/9/18

NO.	DATE	REMARKS	BY
1	05/2018	CLARIFICATION FT - BUILDING DEPARTMENT COMMENTS	MAB

REVISIONS

CH2MHILL

DESIGNED BY AMF	DATE 04/2014	
DRAWN BY EJA	DATE 04/2014	
CHECKED BY MAB	DATE 04/2014	

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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT

ASR CONVEYANCE PIPELINES

Design Review Committee	ABCWUA Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

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ABCWUA Project No.	Zone Map No.	Sheet	Of
7893.188XX	F16	18	78

10-C-01

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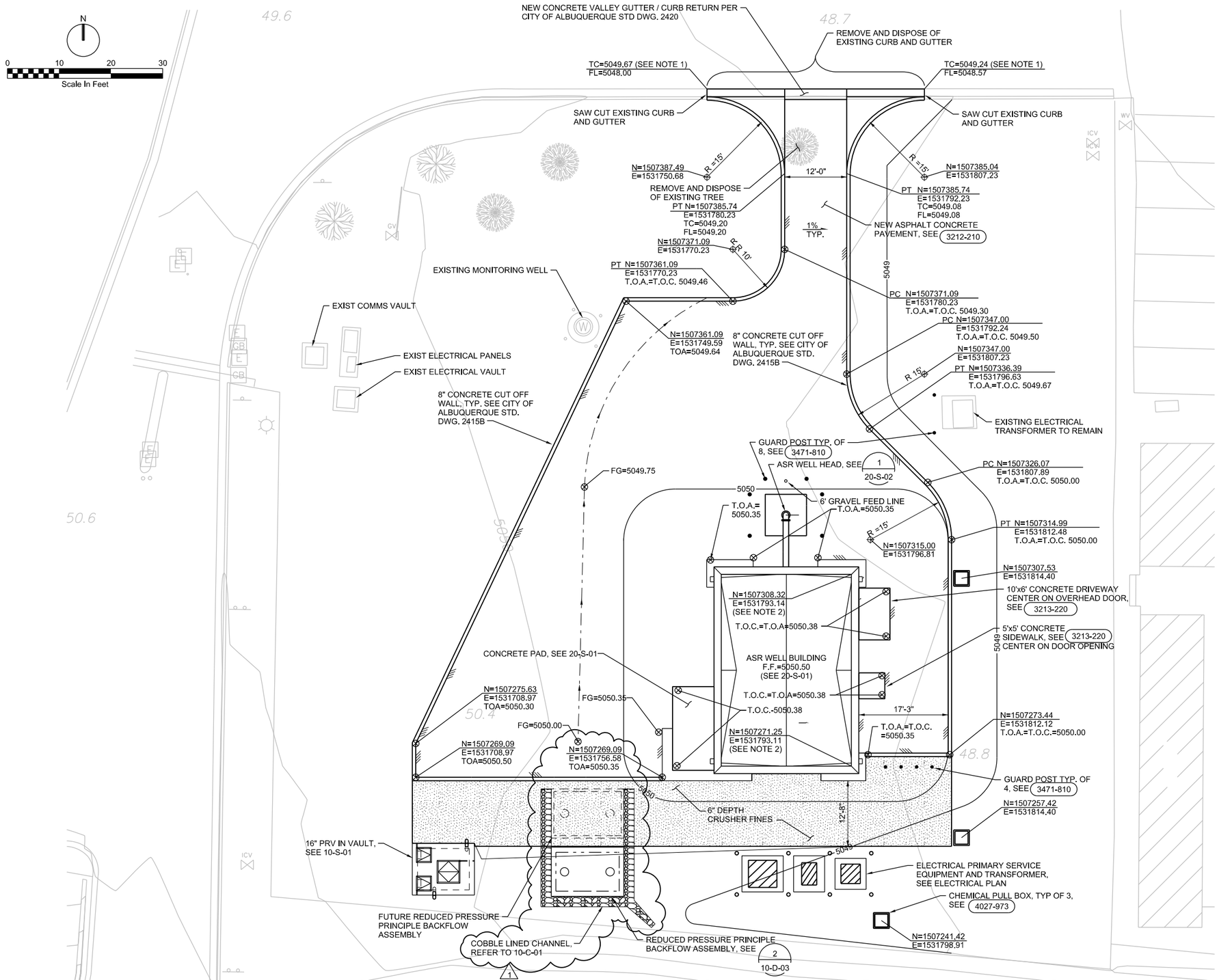

SITE PLAN

1"=10'

NOTES:

1. NEW CURB AND GUTTER ELEVATION TO MATCH EXISTING AT CONNECTION POINTS
2. FOR LOCATION OF BUILDING COORDINATES SHOWN SEE 20-S-01.

VERIFY SCALES

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AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
FIELD INSPECTED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

BENCH MARKS

RECORDED BY — DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

MICHAEL A. BREWER — NEW MEXICO — 14826 — PROFESSIONAL ENGINEER
Michael A. Brewer
5/9/18

NO.	DATE	REMARKS	BY
1	05/2018	CLARIFICATION #1 - BUILDING DEPARTMENT COMMENTS	MAB

REVISIONS

CH2MHILL

		DATE
DESIGNED BY	AMF	04/2014
DRAWN BY	EJA	04/2014
CHECKED BY	MAB	04/2014

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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT

ASR WELL BUILDING SITE / GRADING PLAN

Design Review Committee	ABCWUA Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

ABCWUA Project No.	Zone Map No.	Sheet	Of
7893.188XX	F16	40 (20-C-01)	78

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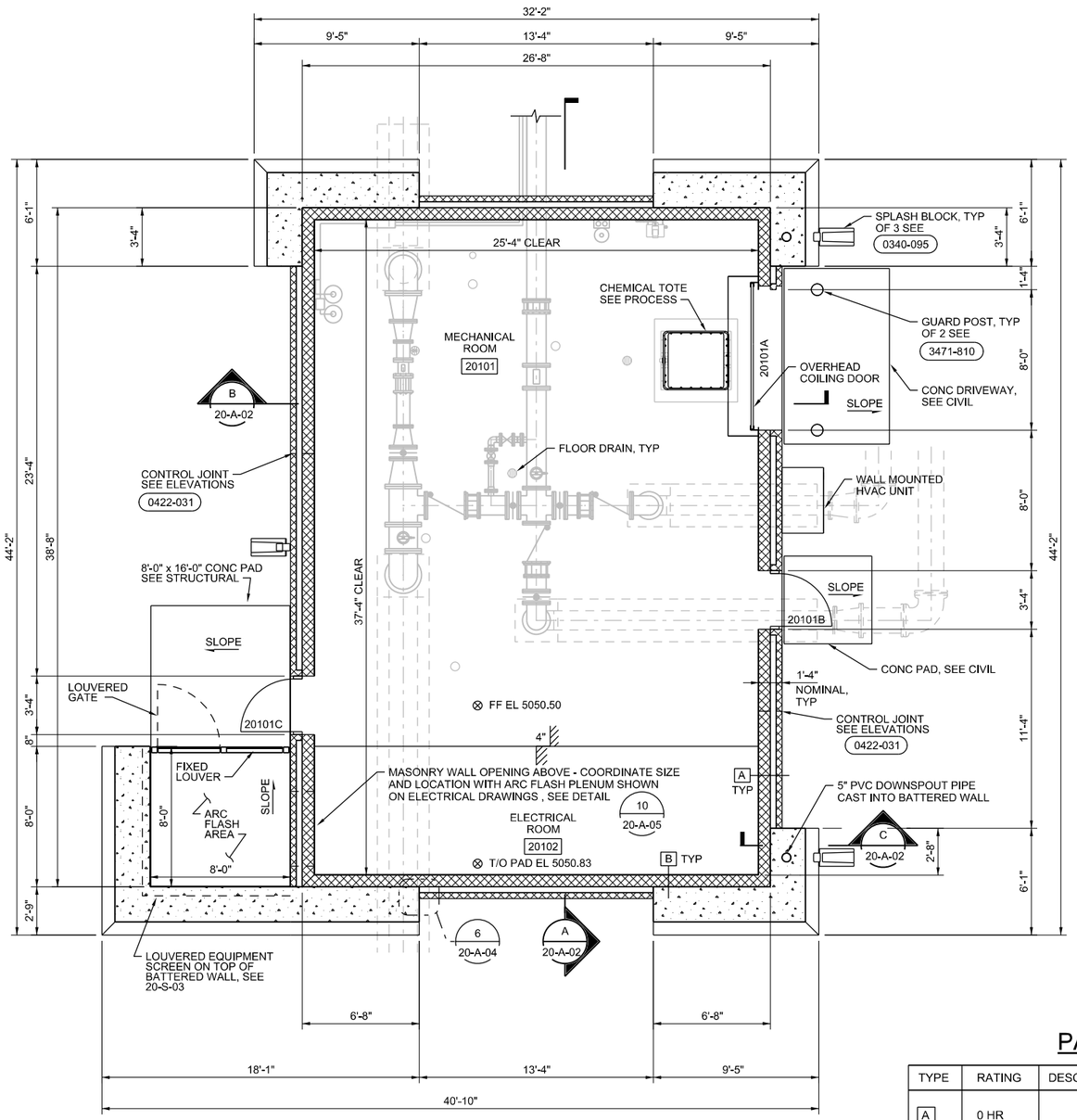
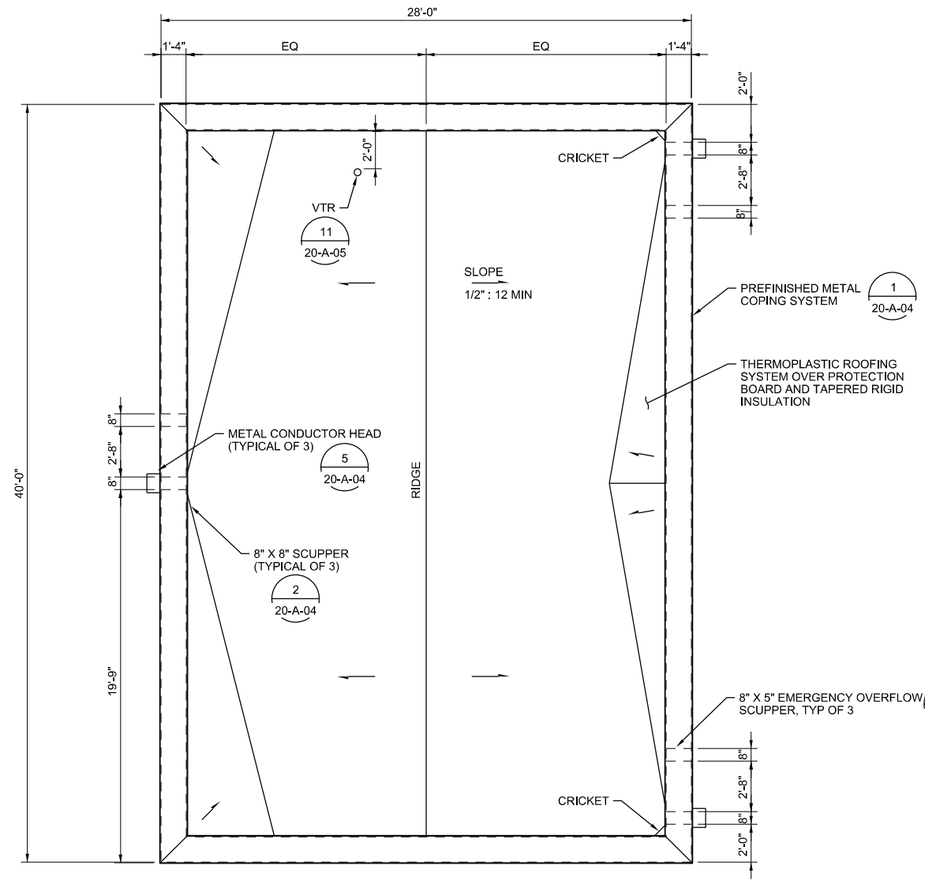


FLOOR PLAN

1/4"=1'-0"

N

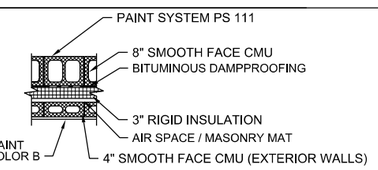
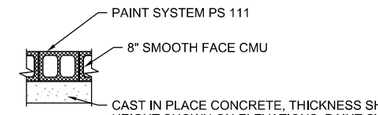


ROOF PLAN

1/4"=1'-0"

N

PARTITION/WALL TYPES

TYPE	RATING	DESCRIPTION
A	0 HR	
B	0 HR	

NOTES:

1. EXTERIOR CONCRETE PADS AND DRIVEWAY ARE TO SLOPE AWAY FROM BUILDING AT 1/4" : 12" MAX SLOPE.
2. ARC FLASH LOUVER ENCLOSURE MATERIAL AND FRAMING ON STRUCTURAL DRAWING 20 -S-03.

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BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO
TIMOTHY M. DODGE
NM 12 020
REGISTERED ARCHITECT
12-5-18

NO.	DATE	REMARKS	BY

REVISIONS

CH2MHILL

		DATE
DESIGNED BY	BT	04/2014
DRAWN BY	PD	04/2014
CHECKED BY	TMD	04/2014

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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT

ASR WELL BUILDING FLOOR AND ROOF PLAN

Design Review Committee	ABCWUA Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

ABCWUA Project No.	Zone,Map No.	Sheet	Of
7893.188XX	F16	45 (20-A-01)	78

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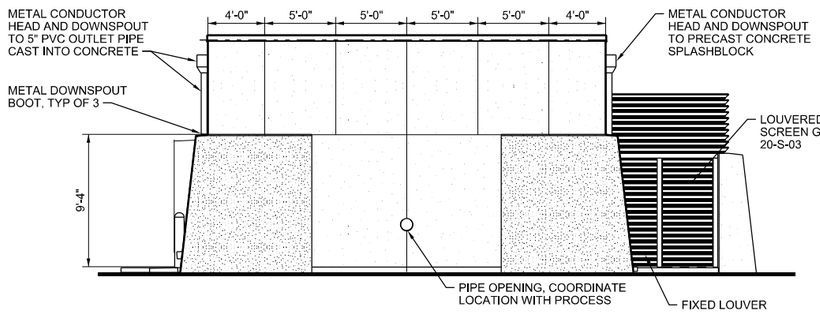
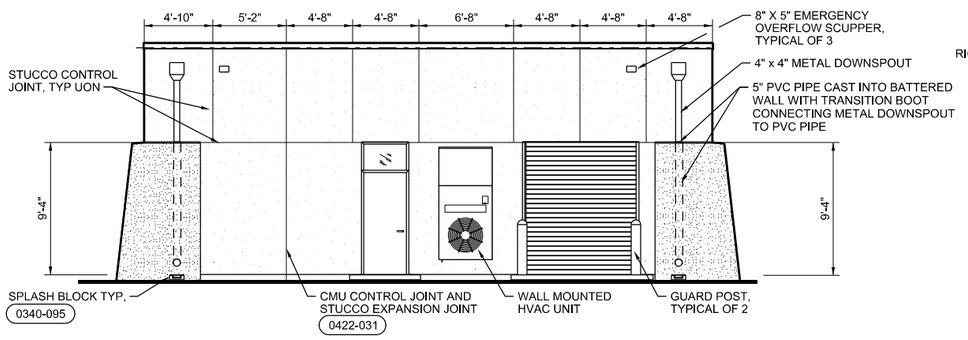


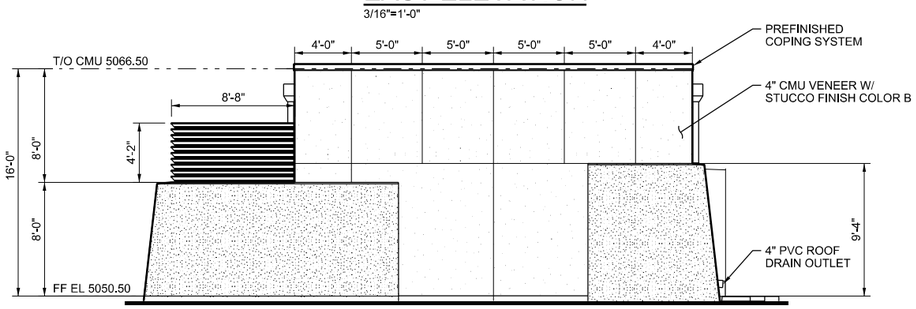
NORTH ELEVATION

3/16"=1'-0"



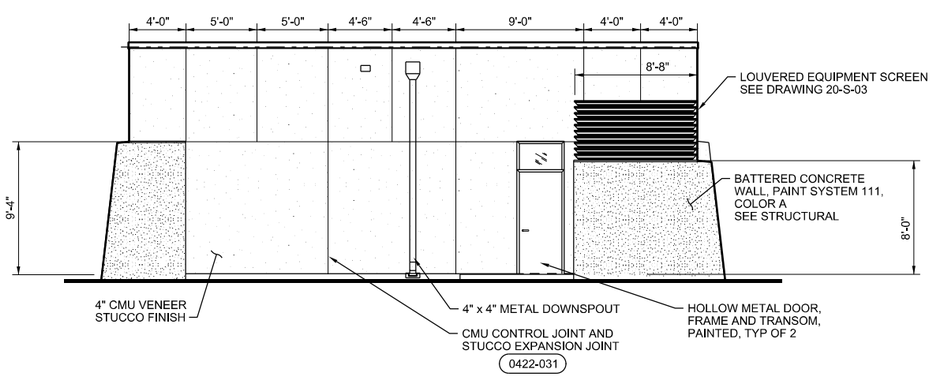
EAST ELEVATION

3/16"=1'-0"



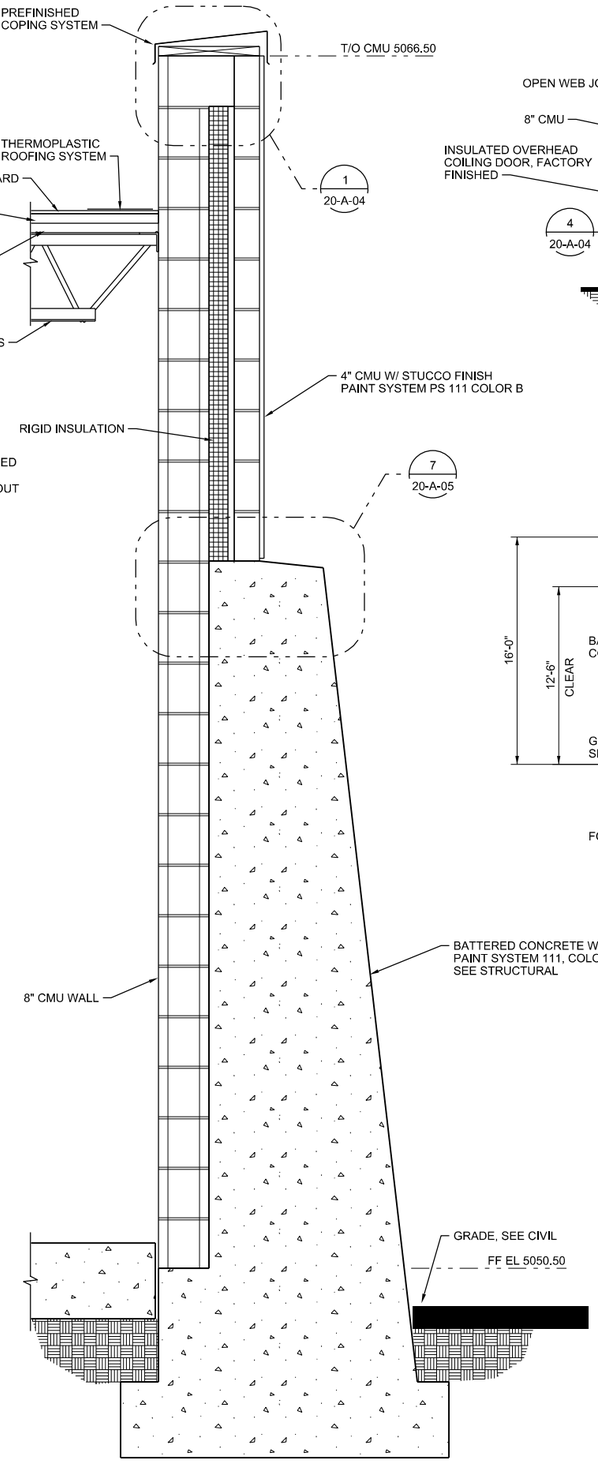
SOUTH ELEVATION

3/16"=1'-0"



WEST ELEVATION

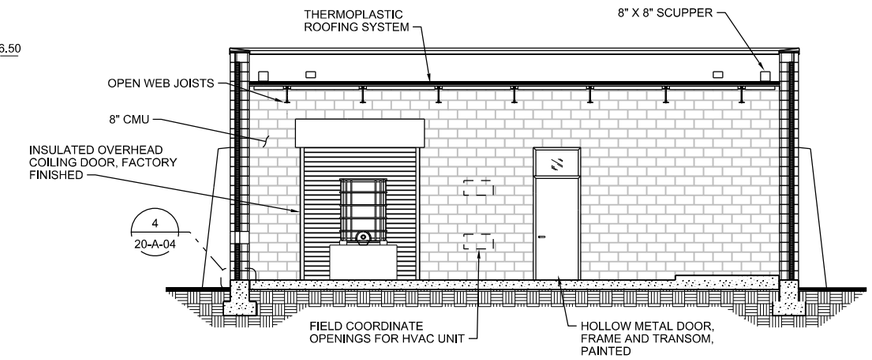
3/16"=1'-0"



C 20-A-01

WALL SECTION

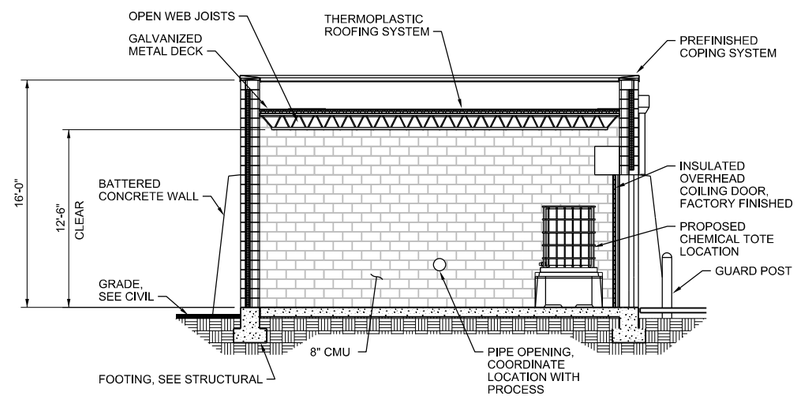
1'=1'-0"



A 20-A-01

BUILDING SECTION

3/16"=1'-0"



B 20-A-01

BUILDING SECTION

3/16"=1'-0"

AS-BUILT INFORMATION

CONTRACTOR | DATE
WORK STAKED BY | DATE
INSPECTOR'S ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE

BENCH MARKS

RECORDED BY | DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO — TIMOTHY M. DODGE — REGISTERED ARCHITECT

NO.	DATE	REMARKS	BY

REVISIONS

CH2MHILL

DESIGNED BY	BT	DATE 12/2013
DRAWN BY	PD	DATE 12/2013
CHECKED BY	TMD	DATE 12/2013

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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

LARGE-SCALE RECHARGE DEMONSTRATION - WELL EQUIPPING PROJECT

ASR WELL BUILDING ELEVATIONS AND SECTIONS

VERIFY SCALES
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Design Review Committee	ABCWUA Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

ABCWUA Project No.	Zone,Map No.	Sheet	Of
7893.188XX	F16	46 (20-A-02)	78

ISSUED FOR CONSTRUCTION