



Dear Proposers,

Due to the size of the total set of as-built drawings for the 27th Avenue Compost Facility, the enclosed as-built drawings represent a sample to assist proposers in understanding the facility design and components for the Request for Proposals. The total set of as-built drawings will be provided by the City upon award of contract. Additionally, the facility was initially designed for 110,000 tons per year processing capacity but was value engineered to 55,000 tons per year. Although the downsizing is noted throughout the as-builts, some of the drawings show aspects of the 110,000 tons per year capacity for future consideration. To clarify, at 55,000 tons per year design capacity, there is only one fully constructed and active aerated pad and biofilter with corresponding manifold, blowers, vault, VFDs and other equipment.

City of Phoenix Public Works Department

1. WORK SHALL CONFORM TO FEDERAL, STATE, AND MUNICIPAL CODES HAVING JURISDICTION OVER THIS PROJECT.
2. VISIT THE SITE PRIOR TO CONTRACT TO VERIFY EXISTING FIELD AND/OR SITE CONDITIONS. VERIFY EXISTING DIMENSIONS.
3. FURNISH AND INSTALL ITEMS REQUIRED TO COMPLETE THE WORK WITH GOOD WORKMANSHIP AND ASSURE PROPER WORKING ORDER.
4. PRIOR TO BEGINNING WORK ON THE PROJECT, OBTAIN WRITTEN AGREEMENTS FOR INGRESS AND EGRESS TO THE WORK SITE FROM ADJACENT PROPERTY OWNERS. ACCESS TO ADJACENT PROPERTY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. A COPY OF AGREEMENTS SHALL BE PROVIDED TO THE OWNER AND/OR ARCHITECT.
5. KEEP CONSTRUCTION AREA FREE FROM ACCUMULATION OF WASTE MATERIALS... OR RUBBISH. CONSTRUCTION AREA SHALL BE CLEANED AT THE END OF EACH WORKING DAY, AND SHALL COMPLY WITH THE OWNER'S REQUIREMENTS FOR CLEANLINESS AND WASTE DISPOSAL.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK AND PROVIDE SAFE ACCESS TO AND FROM ALL SPACES.
7. EXCEPT WHERE MORE EXPLICIT OR STRINGENT REQUIREMENTS ARE WRITTEN INTO THE CONTRACT DOCUMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND INTO OR COPIED DIRECTLY IN THE CONTRACT DRAWINGS.

ALL SITE EGRESS
E INGRESS FROM 27TH
UE & LOWER BUCKEYE

EXISTING TRUCK SCALE, ALL LIGHT AND
HEAVY DUTY VEHICLES MUST PASS

EXISTING CLOSED LANDFILL

**EXISTING
DRIVER
TRAINING
ACADEMY**

**COMPOST
FACILITY SITE**

EXISTING
TRANSFER
STATION

COMPOST FACILITY
PROJECT SITE

EXISTING EXIT
LOOP ROAD —

COF COMPOST FACILITY  KENNEY APPL  HAPPING INC 

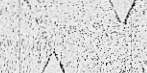
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OVERALL CAMPUS SITE PLAN



1

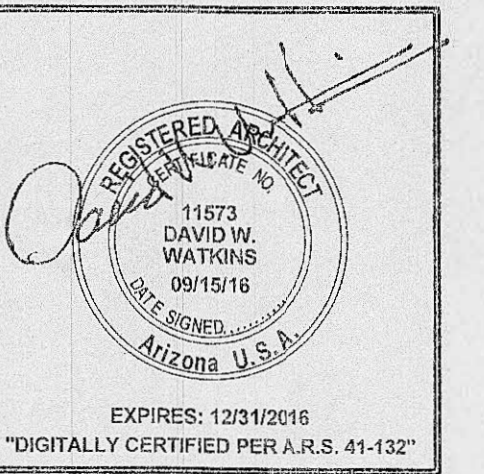
0' 100'-0" 200'-0" 400'-0" 800'-0"



Arrington Watkins Architects

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CITY OF PHOENIX
RESOURCE INNOVATION CAMPUS COMPOST
FACILITY AT 27th AVE LANDFILL COMPLEX
3060 SOUTH 27TH AVENUE
PHOENIX, ARIZONA 85009

NO.	REVISION	DATE
2	Scope Revision	9/15/2016
PROJECT NO:	2014.057	
DATE:	09/15/2015	
DESIGNED BY:	MR	
DRAWN BY:	W/S	
APPROVED BY:	MR	
SHEET TITLE: ARCHITECTURAL OVERALL CAMPUS SITE PLAN		

②

SHEET NUMBER:
A-11

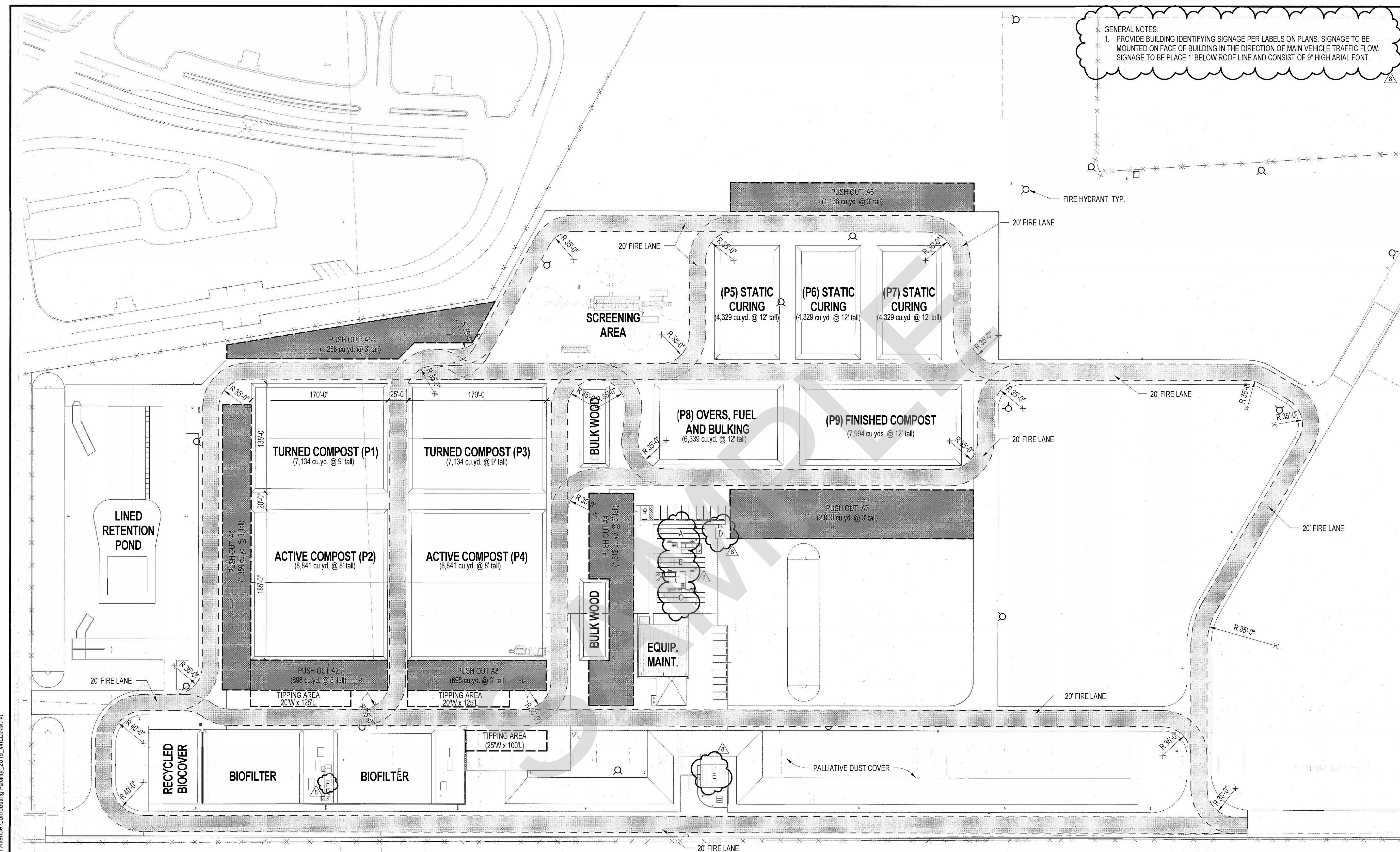
AS-BUILT

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REGISTERED ARCHITECT
11573
DAVID W. WATKINS
12/09/16
PHOENIX, ARIZONA
EXPIRES: 12/31/2016
"DIGITALLY CERTIFIED PER A.R.S. 41-132"

CITY OF PHOENIX
**RESOURCE INNOVATION CAMPUS COMPOST
FACILITY AT 27th AVE LANDFILL COMPLEX**
3060 SOUTH 27TH AVENUE
PHOENIX, ARIZONA 85009

NO.	REVISION	DATE
2	Scope Revision	9/15/2016
1	ASI-006	12/09/16
PROJECT NO.: 2014.057		
DATE: 12/09/2016		
DESIGNED BY: MR.		
DRAWN BY: WB		
APPROVED BY: MR.		
SHEET TITLE:		
GENERAL FIRE PREVENTION PLAN		
SHEET NUMBER:		
G-1.2		



PUSH OUT AREA CALCULATIONS

(P1) AND (P2) ACT AS ONE PILE WITH A MOVING 20' AISLE WITH THE TURNER OPERATION
TOTAL COMBINED PILE SIZE: 15,975 cu yds.
TOTAL PUSH OUT AREA REQ'D: 3,994 cu yds.
TOTAL PUSH OUT AREA PROVIDED:
A1 + A2 + A3 + A5 = 4,043 cu yds

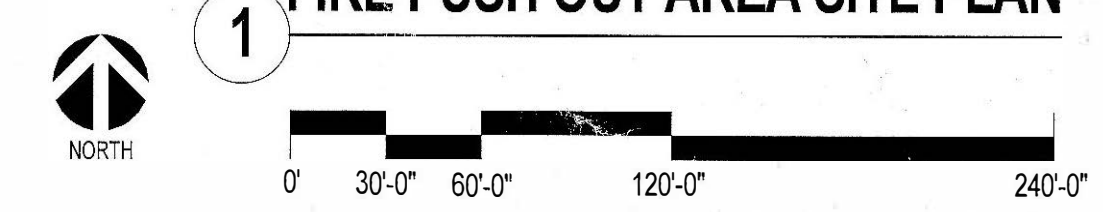
(P3) AND (P4) ACT AS ONE PILE WITH A MOVING 20' AISLE WITH THE TURNER OPERATION
TOTAL COMBINED PILE SIZE: 15,975 cu yds.
TOTAL PUSH OUT AREA REQ'D: 3,994 cu yds.
TOTAL PUSH OUT AREA PROVIDED:
A2 + A3 + A4 + A5 = 3,996 cu yds

PUSH OUT AREA A6 SERVES PILES P5, P6, & P7.
THE PILES ARE ALL EQUAL AT 4,329 cu yds.
PUSH OUT AREA REQ'D: 1,082 cu yds.
PUSH OUT AREA PROVIDED: 1,166 cu yds.

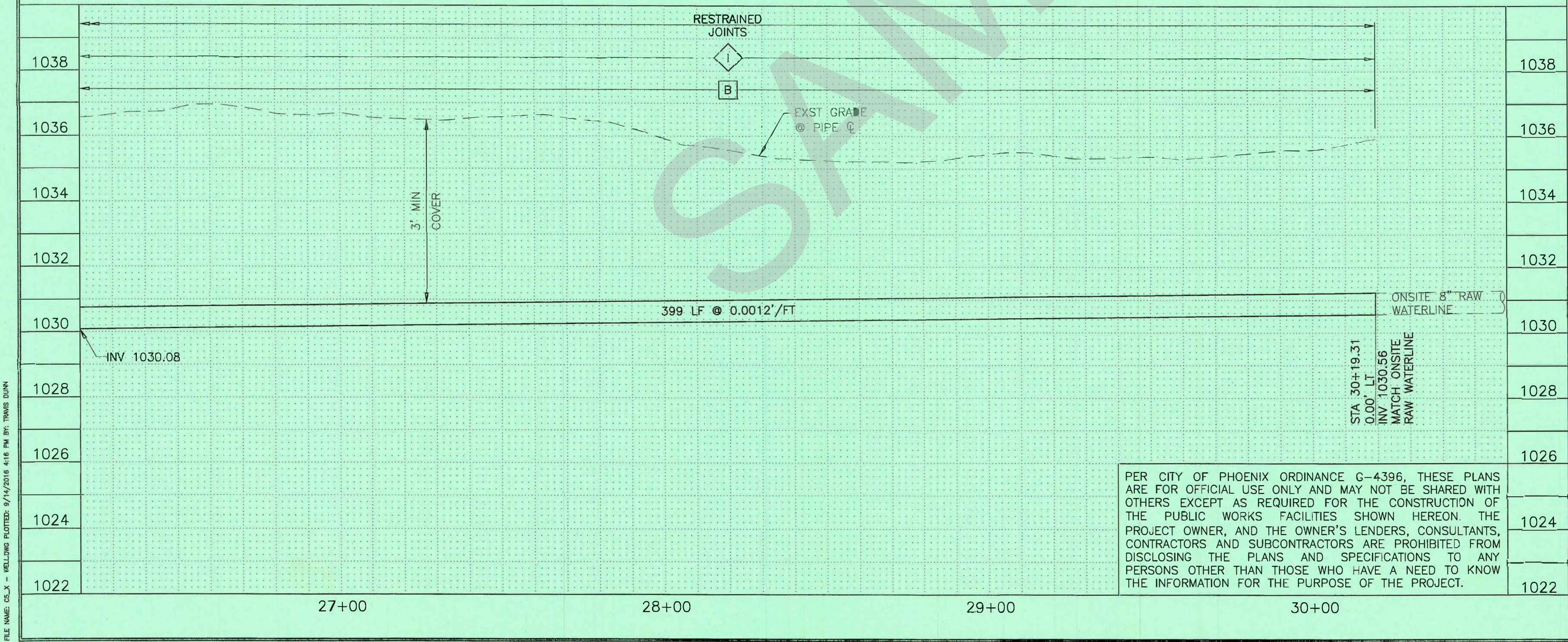
PUSH OUT AREA A7 SERVES PILES P8 & P9.
THE LARGEST PILE SERVED IS P9 AT 7,994 cu yds.
PUSH OUT AREA REQ'D: 1,999 cu yds.

AS-BUILT

1 FIRE PUSH OUT AREA SITE PLAN



FILE NAME: 66_X - WELLING ROUTED: 9/14/2016 4:16 PM BY: TRAVIS DUNN



CONSTRUCTION NOTES

53 RAW WATER LINE, DIP CL 350
MAG STD DET 303,
W/PURPLE POLYWRAP
COP SEC 750.2, MAG SEC 610.6.2 & 610.6.3
SIZE PER PLAN

53 8" 399 LF

END ALIGNMENT
STA 30+19.52
N 879111.43
E 636148.46

10' FUTURE
WATER ESMT

ON-SITE RAW WATER LINE
REFER TO SHEET CU1.2

UPDATE STA/OFF
OR NORTHING/
EASTING

8" Raw Water
Moved 5' South

RESTRAINED
JOINTS

EXST. GRADE
PIPE

3" MIN
COVER

399 LF @ 0.0012'/FT

ON-SITE 8" RAW
WATERLINE

STA 30+19.31
INV 1030.56
MATCH ON-SITE
RAW WATERLINE

INV 1030.08

NOTE:
MAXIMUM DEFLECTION AT PULLED JOINTS SHALL
NOT EXCEED 2.5'

REVISIONS DATE

PROJECT NO.:

DATE: 09/14/2016

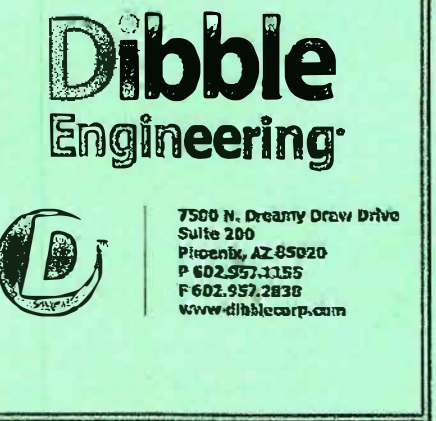
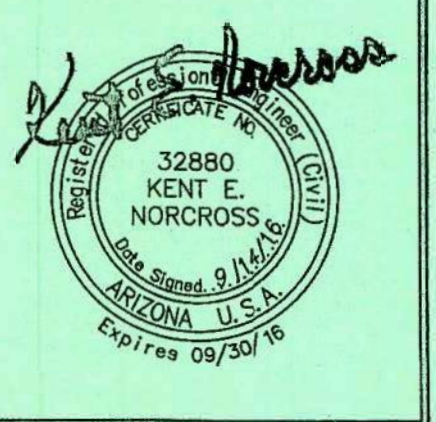
DESIGNED BY: TCW

DRAWN BY: TGD

APPROVED BY: AAC

SHEET TITLE:
WELL WATERLINE PLAN &
PROFILE

SHEET NO.:



CITY OF PHOENIX
RESOURCE INNOVATION CAMPUS
COMPOST FACILITY
AT 27TH AVE LANDFILL COMPLEX
3060 SOUTH 27TH AVENUE
PHOENIX, ARIZONA 85009

CU2.6

PERMIT SET

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Submittal comment
revisions 2/6/17

Submittal comment
revisions 2/7/17

- GENERAL NOTES:
- OCCUPANT LOADS SHOWN ON SHEET G-1.3 - EGRESS PLAN
 - OCCUPANT LOADS AT DOORS SHOWN ON SHEET G-1.3 - EGRESS PLAN
 - MODULAR TRAILERS SHOWN FOR EGRESS COORDINATION. TRAILERS SHALL BE PERMITTED THRU STATE AGENCY BY MANUFACTURE
- DEFERRED SUBMITTAL:
PREMANUFACTURED WOOD ASSEMBLY FOR THE TRAILER EXIT DECK, RAMPS, STAIRS, AND RAILS

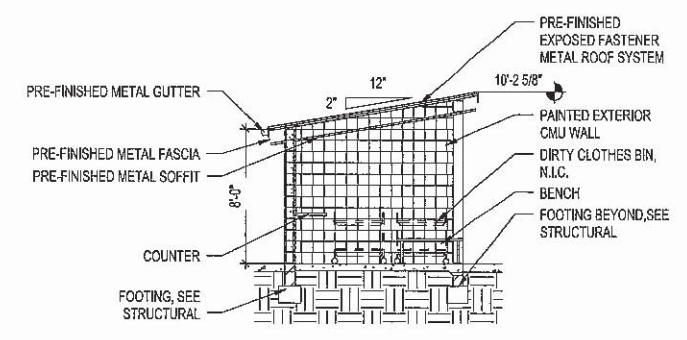
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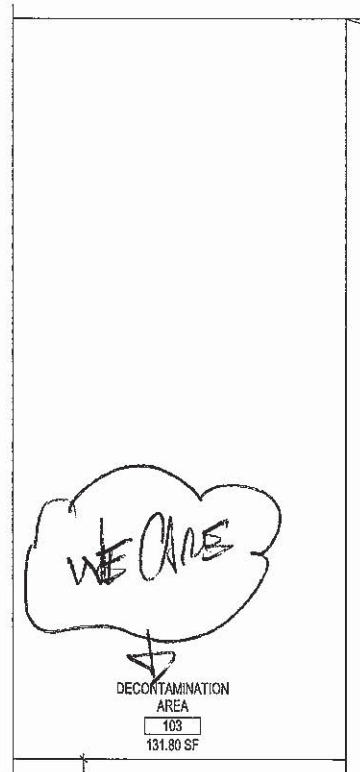
11873
DAVID W. WATKINS
REGISTERED ARCHITECT
STATE OF ARIZONA

EXPIRES: 12/31/2016
"DIGITALLY CERTIFIED PER A.R.S. 41-132"



2 SCRUB DOWN AREA - SECTION

0' 2'-8" 5'-4" 10'-8" 21'-4"



WE CARE

RAMPS & MODULAR ACCESS BEING MODIFIED. TEMP RAMPS/STAIRS TO BE IN PLACE AT SUBSTANTIAL COMPLETION

TRAILER AREA - FLOOR PLAN

0' 2'-8" 5'-4" 10'-8" 21'-4"

CITY OF PHOENIX

RESOURCE INNOVATION CAMPUS COMPOST FACILITY AT 27th AVE LANDFILL COMPLEX

3060 SOUTH 27TH AVENUE

PHOENIX, ARIZONA 85009

NO.	REVISION	DATE
1	City Comments	9/15/2016
2	Scope Revision	9/15/2016

PROJECT NO.: 2014.067

DATE: 12/09/2016

DESIGNED BY: MR

DRAWN BY: WB

APPROVED BY: MR

SHEET TITLE:
ARCHITECTURAL TRAILER AREA - FLOOR PLAN

SHEET NUMBER:
A-2.3

Parking For City, WE CARE Admin & Visitors

PUBLIC WORKS MODULAR

WE CARE MODULAR

REST ROOMS FOR WE CARE

C:\P\10214.057 Arch 27th Avenue Composting Facility_2016_WILLIAM.W

18/02/2017 7:56:09 AM

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Professional Engineer
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CITY OF PHOENIX
RESOURCE INNOVATION CAMPUS COMPOST FACILITY
AT 27th AVE LANDFILL COMPLEX
3060 SOUTH 27TH AVENUE
PHOENIX, ARIZONA 85009

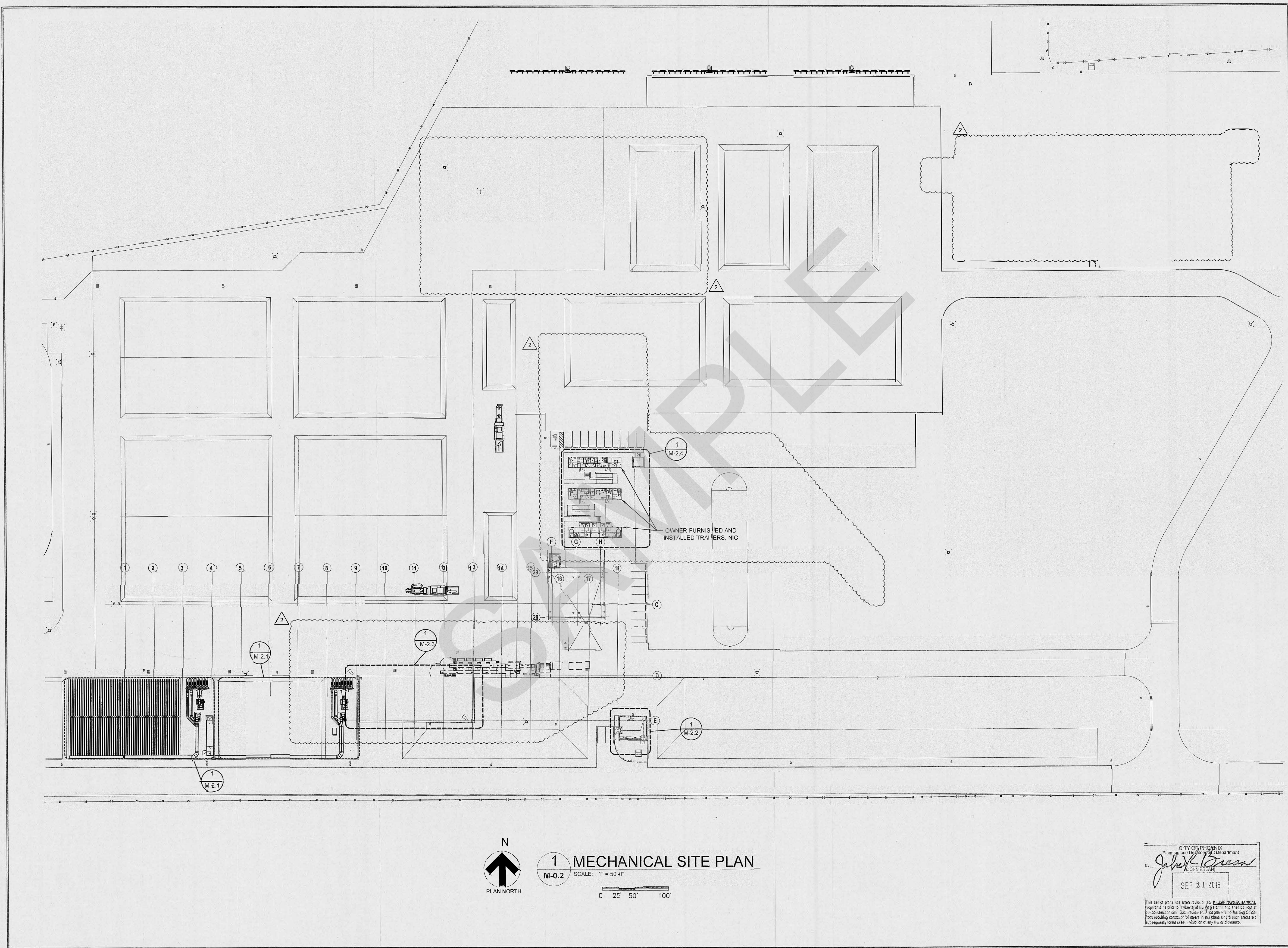
NO	REVISION	DATE
1	City Review Comments	01/15/2016
2	Owner Scope Reduction	01/15/2016

PROJECT NO.: 2014 057
 DATE: 09/15/2016
 DESIGNED BY: MBS
 DRAWN BY: WTE
 APPROVED BY: MBS

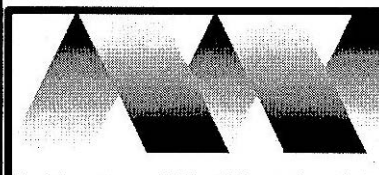
SHEET TITLE:
MECHANICAL
SITE PLAN

SHEET NUMBER:
M-0.2

CITY OF PHOENIX
 Planning and Development Department
 By: *John B. Green*
 (JOHN B. GREEN)
 SEP 21 2016
 This set of plans has been reviewed for compliance with the City of Phoenix Mechanical Code and shall be kept at the construction site. Such review shall not constitute an approval of the plans or any part thereof. Any errors or omissions in this set of plans shall be the responsibility of the engineer of record.



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Engineering By



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CITY OF PHOENIX
RESOURCE INNOVATION CAMPUS COMPOST FACILITY
 AT 27th AVE LANDFILL COMPLEX
 3060 SOUTH 27TH AVENUE
 PHOENIX, ARIZONA 85009

NO.	REVISION	DATE
1	City Review Comments	9/15/2016
2	Owner Scope Reduction	9/15/2016
3	ASI GMP-001	11/10/2016
4	ASI GMP-004	11/22/2016

PROJECT NO.: 2014.057
 DATE: 09/15/2016
 DESIGNED BY: MBS
 DRAWN BY: WTE
 APPROVED BY: MBS

SHEET TITLE:
 M-2.1 AERATION BLOWER-MANIFOLD AND BIOFILTER (WEST)

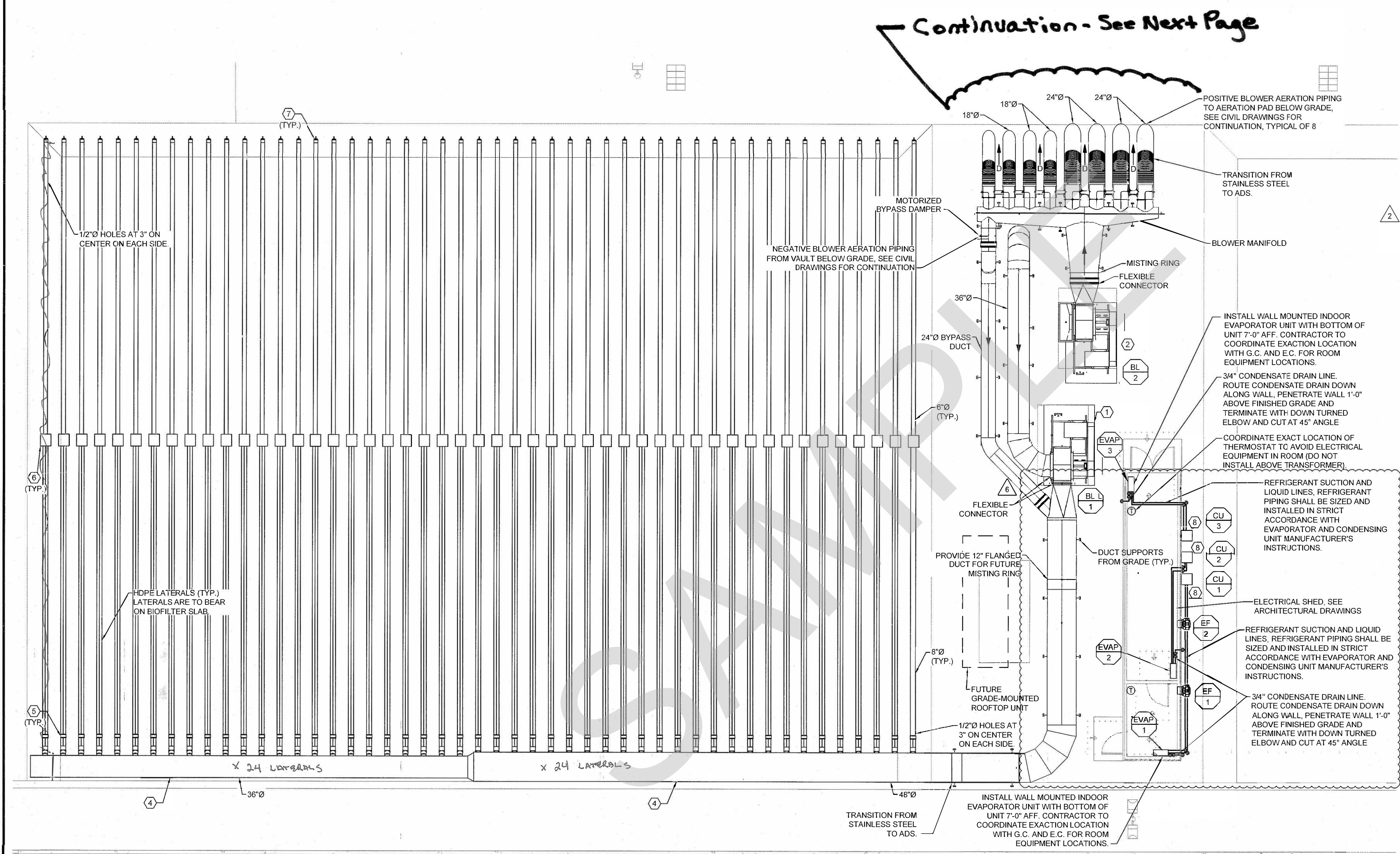
SHEET NUMBER:
M-2.1

GENERAL NOTES:

- A. EAST AERATION BLOWER-MANIFOLD LAYOUT SIMILAR.
- B. AERATION MANIFOLD, DUCTWORK, AND ACCESSORIES ABOVE GRADE SHALL BE STAINLESS STEEL. AERATION DUCT IS UNINSULATED.
- C. SEE P&ID ON ELECTRICAL SHEETS FOR CONTROLS.
- D. BLOWER BL-2 IS THE POSITIVE AERATION BLOWER. THIS BLOWER PROVIDES POSITIVE PRESSURE FOR THE AERATION MANIFOLD AND AERATION PIPING TO THE AERATION PADS. MOTORIZED DAMPERS AT THE MANIFOLD CONTROL THE AIRFLOW GOING OUT TO THE AERATION PAD FOR EACH AERATION ZONE. AFTER LEAVING THE MANIFOLD, THE PIPING IS ROUTED BELOW GRADE AND CAN BE FOUND ON THE CIVIL DRAWINGS. THIS BELOW GRADE PIPING IS SLOPED BACK TO AN UNDERGROUND VAULT THAT IS LOCATED BENEATH THE BLOWERS. BLOWER BL-1 IS THE NEGATIVE AERATION BLOWER WHICH UTILIZES THE SAME UNDERGROUND PIPING FROM THE AERATION PAD AND EXHAUSTS THE AIR THROUGH THE VAULT AND ADDITIONAL MOTORIZED DAMPERS TO THE BIOFILTER. A BYPASS DUCT CONNECTS THE POSITIVE MANIFOLD TO THE NEGATIVE DUCT TO PROVIDE COOLER AIR WHEN USE OF THE MISTING RING IS REQUIRED TO RELIEVE THE TEMPERATURE THROUGH THE BIOFILTER.

KEYED NOTES: (#)

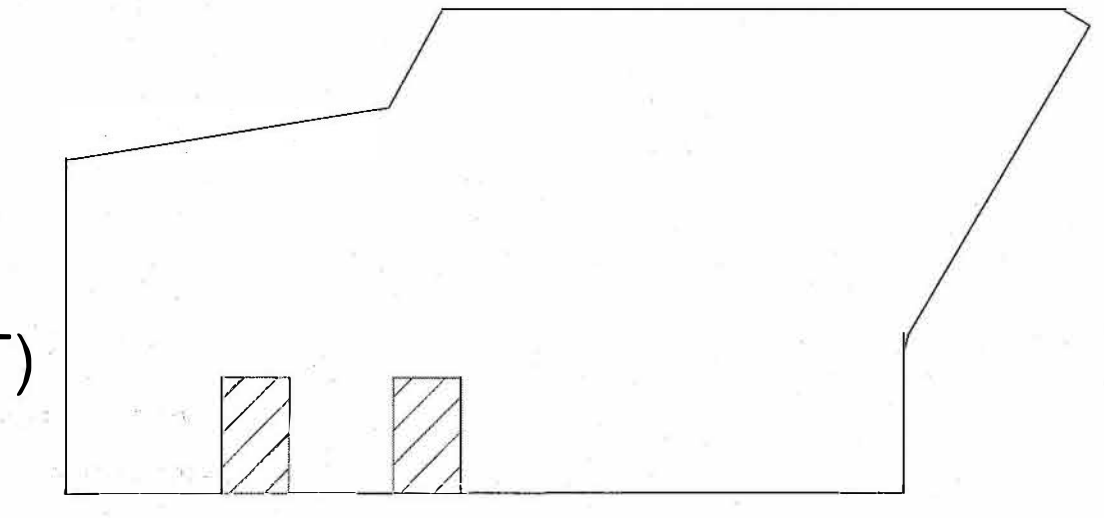
- 1 BL-3 AT EAST AERATION BLOWER-MANIFOLD.
- 2 BL-4 AT EAST AERATION BLOWER-MANIFOLD.
- 3 (NOT USED)
- 4 ADS PIPING, SUPPORT OFF OF BIOFILTER SLAB WITH BRICKS. HDPE LATERALS SHALL COME OFF AT 45° ANGLE DOWN.
- 5 RUBBERIZED COUPLING (FERNCO) WITH ONLY ONE SIDE SECURED FOR CLEANING PURPOSES.
- 6 REDUCING RUBBERIZED TRANSITION (FERNCO) WITH ONLY ONE SIDE SECURED FOR CLEANING PURPOSES. PROVIDE REBAR IN 8" PIPE FOR FULL ATTACHMENT.
- 7 END CAP WITH PULL RING.
- 8 PROVIDE WALL MOUNTING BRACKET FOR CONDENSING UNIT. MOUNT UNIT A MINIMUM OF 6'-8" AFF. PROVIDE BACKING FOR SECURING BRACKETS, COORDINATING WITH CONTAINER SUPPLIER.



1
M-2.1

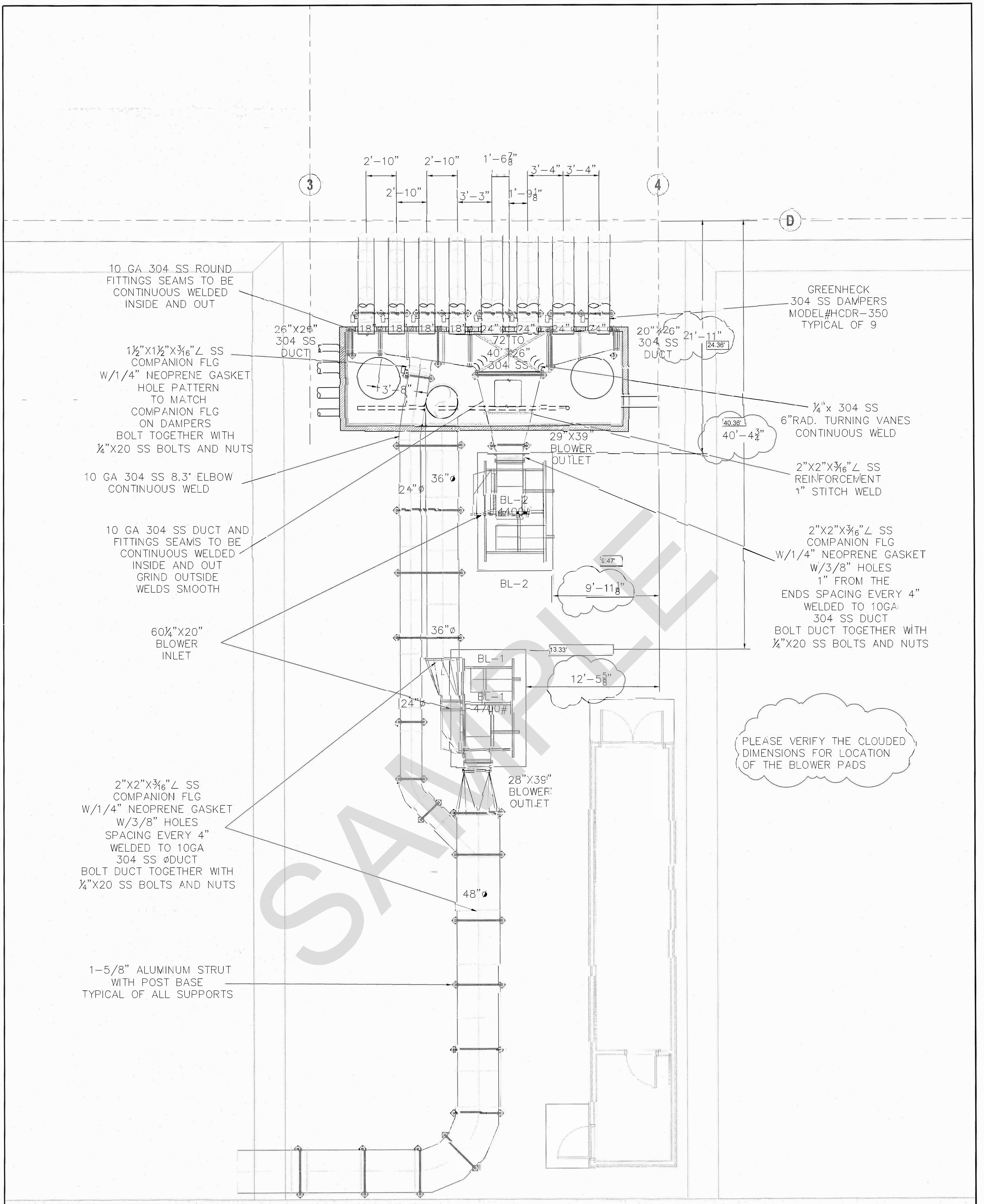
M-2.1 AERATION BLOWER-MANIFOLD AND BIOFILTER (WEST)

SCALE: 1/8" = 1'-0"
 0 1' 4' 6' 8' 10'



KEY PLAN

AS-BUILT



PLEASE VERIFY THE CLOUDED DIMENSIONS FOR LOCATION OF THE BLOWER PADS

SHOP DRAWINGS
 BY: HACI MECHANICAL CONTRACTORS
 2108 W SHANGRI-LA ROAD
 PHOENIX, AZ. 85029 (602) 944-1555
 REVIEWED AND COMMENTS
 BY: DATE:

PROJECT NO: 16-4862
DATE: 11/10/16
DRAWN BY: JOE C
SCALE: $\frac{1}{4}" = 1'-0"$
CHK-12
1 OF 1

DATE	REVISION

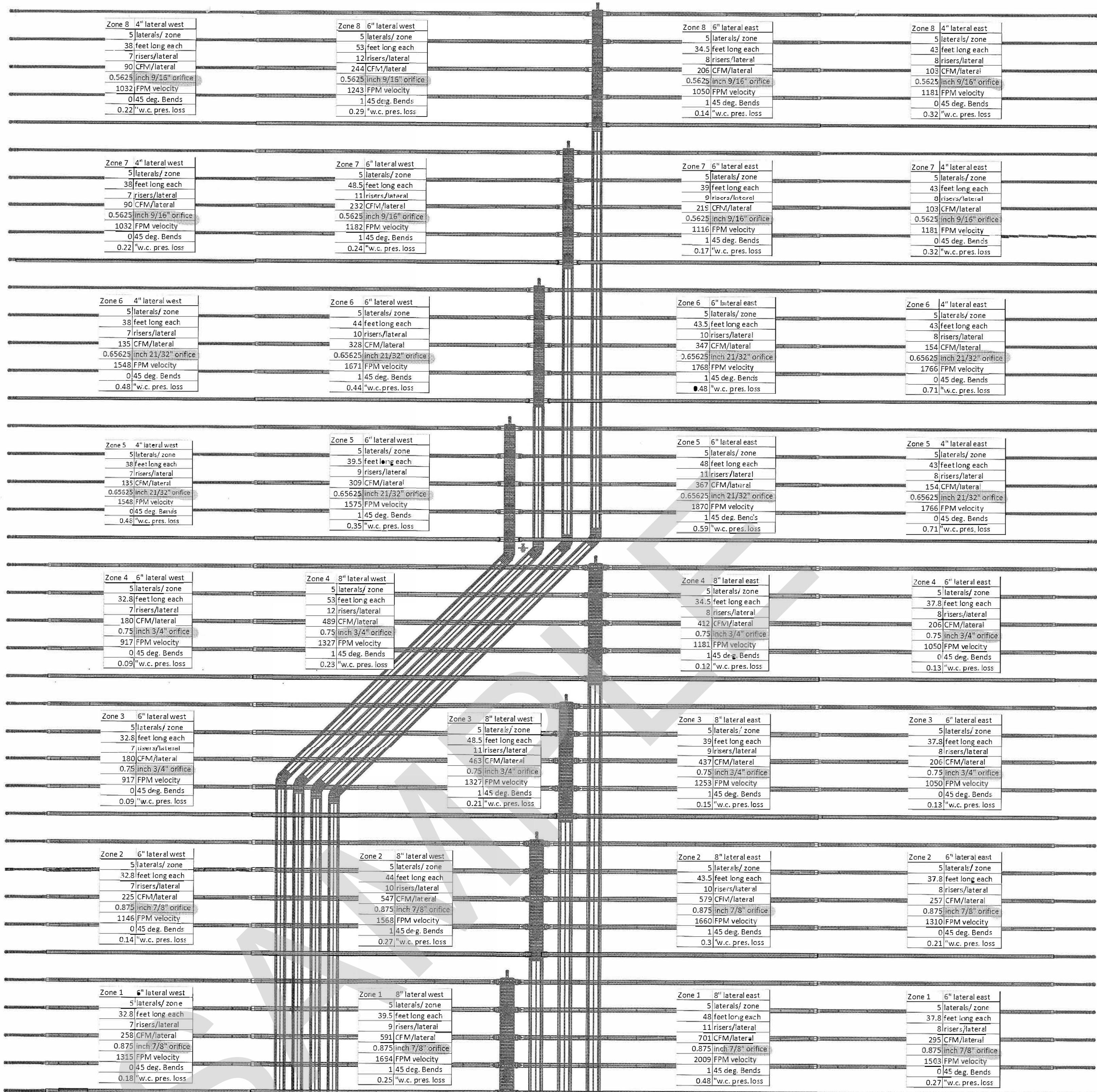
27TH AVE COMPOSTING YARD HVAC LAYOUT



HACI Mechanical Contractors, Inc.
 2108 W. Shangri-La Road
 Phoenix, AZ. 85029
 Tel. (602) 944-1555
 Fax. (602) 678-0266
 hmcinfo@haci.com
 LICENSES: ROC104397, ROC104165, ROC10417C,
 ROC104171, ROC104172, ROC252478, ROC24760

City of Phoenix Aeration Pad Design

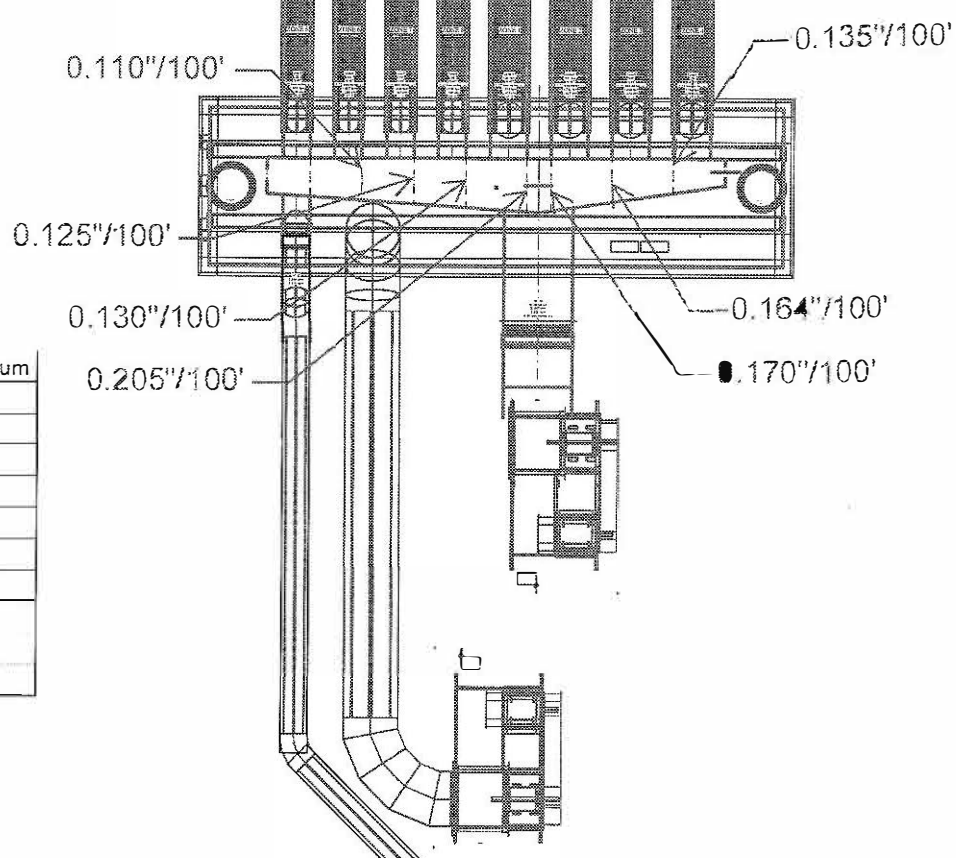
Blower Set 1		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
Piles to be controlled	164 feet long 183 feet wide 8 feet high	164 feet long 25.833 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high	164 feet long 22.5 feet wide 8 feet high
Volume	8,409 cubic yards	1,253 cubic yards	1,093 cubic yards	1,093 cubic yards	1,093 cubic yards	1,093 cubic yards	1,093 cubic yards	1,093 cubic yards	1,093 cubic yards
Total aeration volume	31,768 cfm/blower	6,276 cfm/zone	5,467 cfm/zone	4,373 cfm/zone	4,373 cfm/zone	3,280 cfm/zone	3,280 cfm/zone	2,187 cfm/zone	2,187 cfm/zone
Aeration rate	3.57 cfm/cy	(average) 5 cfm/cy	5 cfm/cy	4 cfm/cy	4 cfm/cy	3 cfm/cy	3 cfm/cy	2 cfm/cy	2 cfm/cy
Orifice spacing on lateral	4.6428 feet	6.2 cfm/orifice	6.2 cfm/orifice	6.2 cfm/orifice	6.2 cfm/orifice	6.2 cfm/orifice	6.2 cfm/orifice	6.2 cfm/orifice	6.2 cfm/orifice
Spacing between laterals	4.5 feet	36.9 cfm/orifice	32.2 cfm/orifice	25.7 cfm/orifice	25.7 cfm/orifice	19.3 cfm/orifice	19.3 cfm/orifice	12.9 cfm/orifice	12.9 cfm/orifice
Orifice diameter	170 orifices/zone	0.875 inches 7/8"	0.875 inches 7/8"	0.75 inches 3/4"	0.75 inches 3/4"	0.65625 inch 21/32"	0.65625 inch 21/32"	0.5625 inch 9/16"	0.5625 inch 9/16"
Velocity at orifice	7040 fpm	8895 fpm	7188 fpm	7827 fpm	7827 fpm	7667 fpm	7667 fpm	6957 fpm	6957 fpm
Orifice pressure loss		0.06" w.c. loss	0.04" w.c. loss	0.05" w.c. loss	0.05" w.c. loss	0.06" w.c. loss	0.06" w.c. loss	0.06" w.c. loss	0.06" w.c. loss
Velocity at riser	1.5 inch dia.	for all risers	2625 fpm	2095 fpm	2095 fpm	1574 fpm	1574 fpm	1052 fpm	1052 fpm
# 90 deg bends	1	1	1	1	1	1	1	1	1
Riser pressure loss	2 feet long	1.99" w.c. loss	1.51" w.c. loss	0.96" w.c. loss	0.96" w.c. loss	0.54" w.c. loss	0.54" w.c. loss	0.24" w.c. loss	0.24" w.c. loss



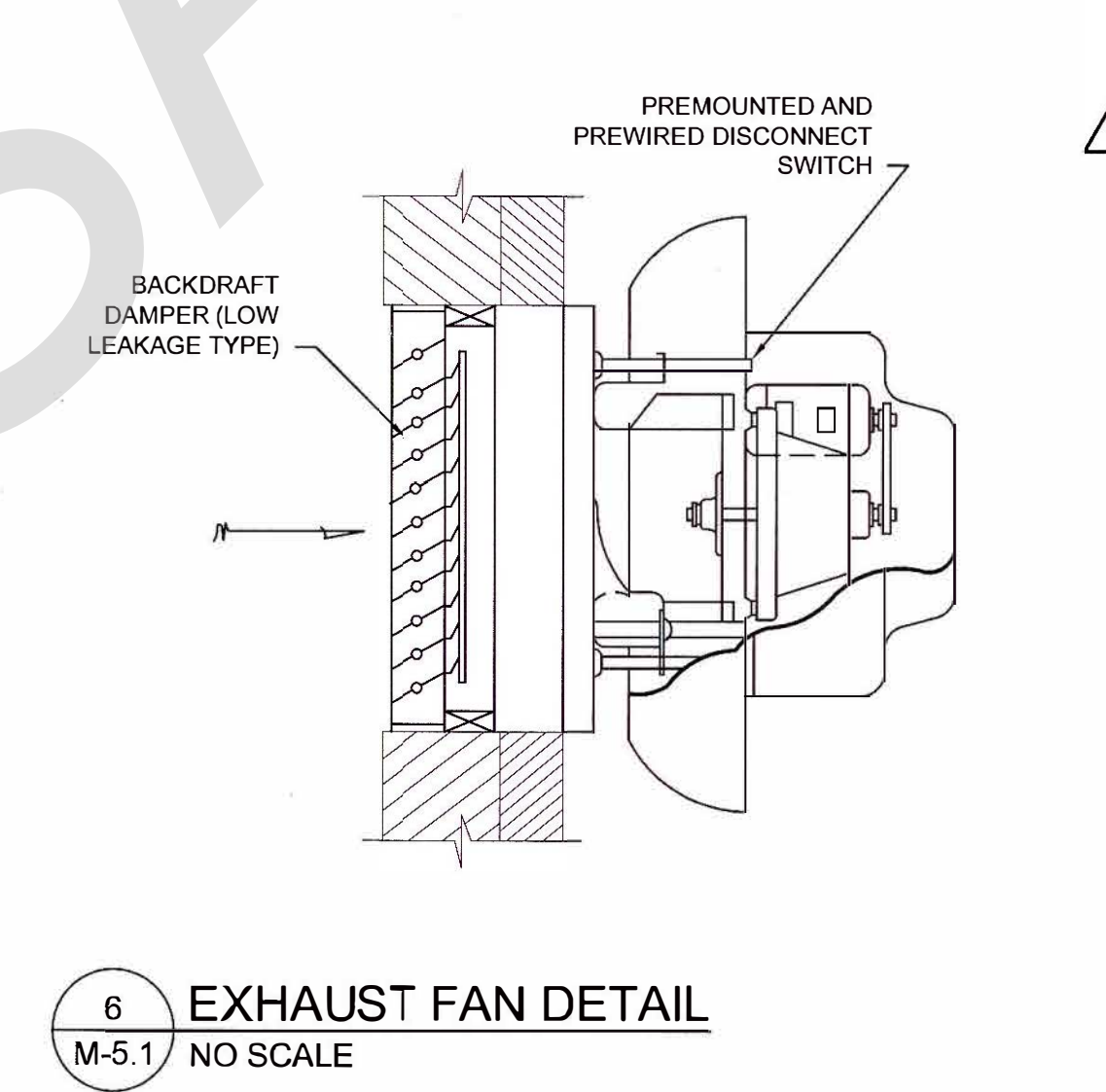
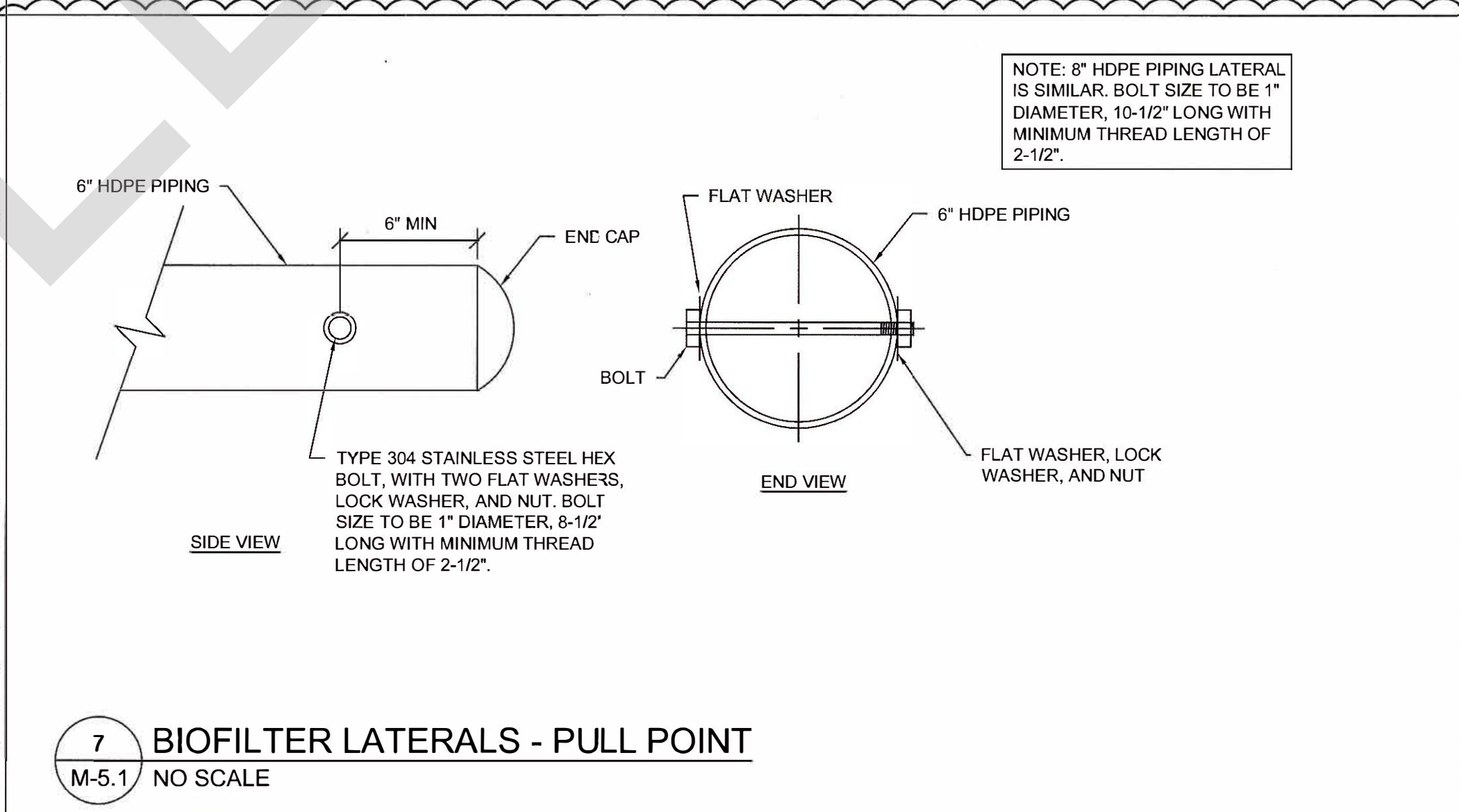
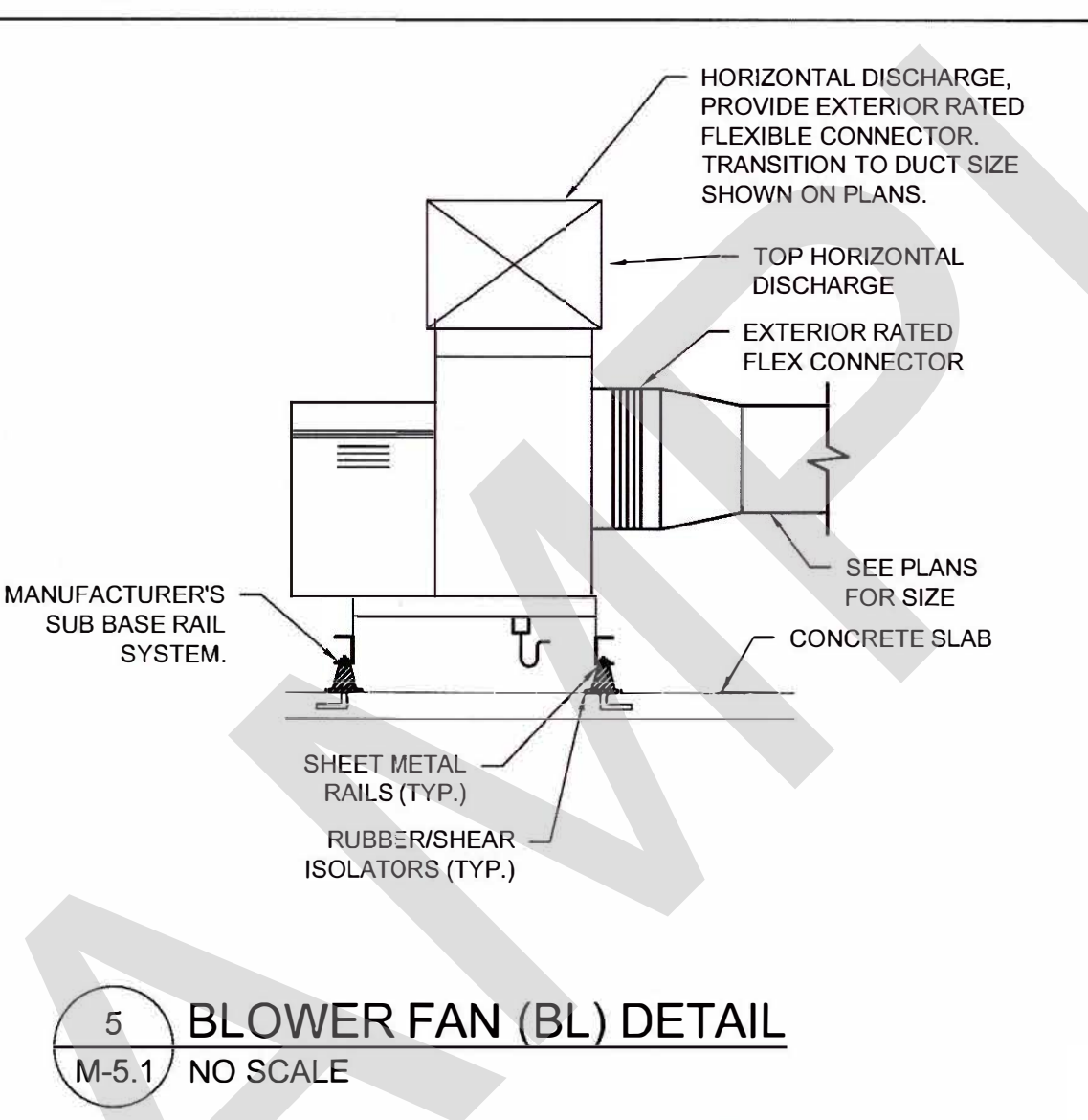
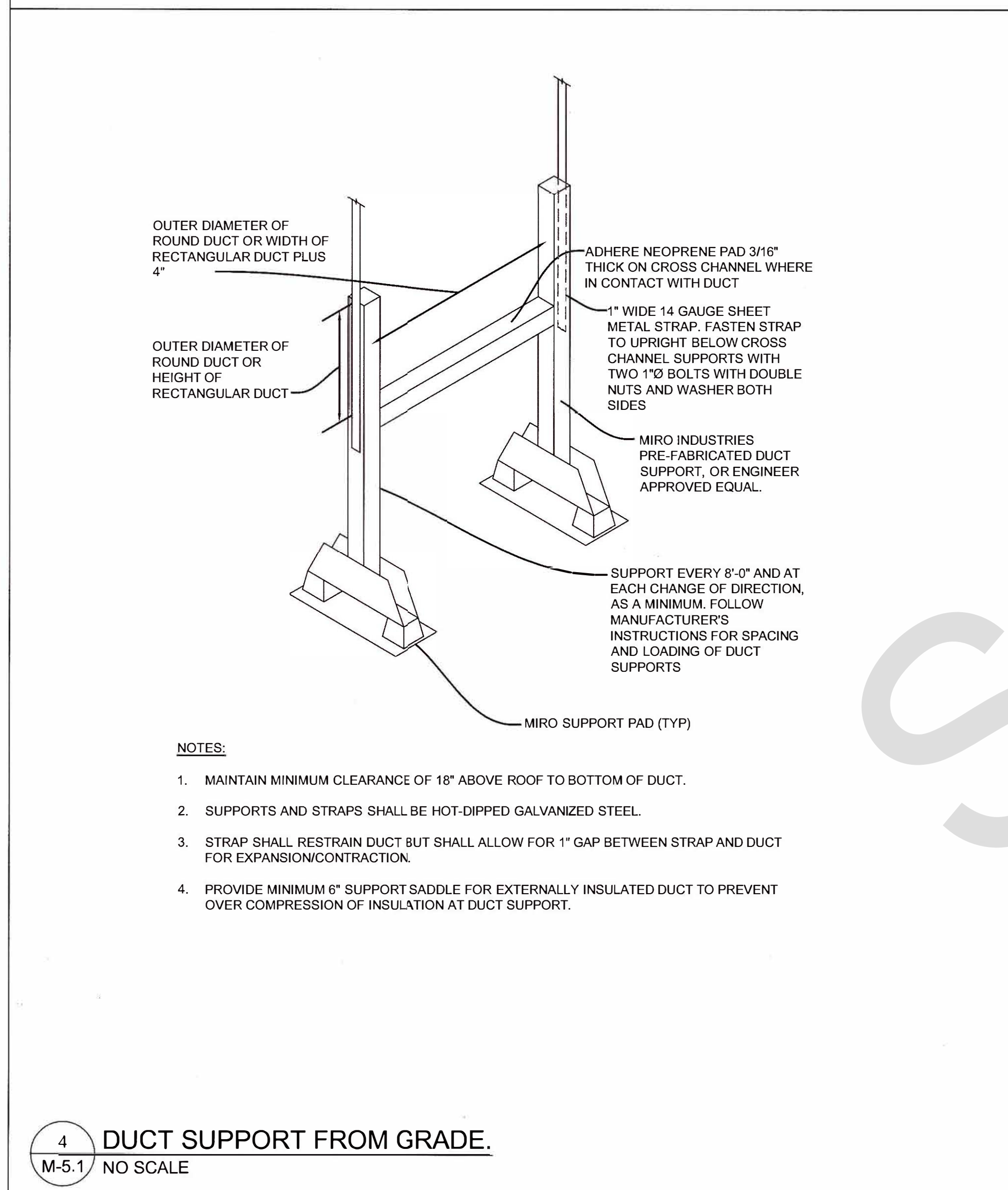
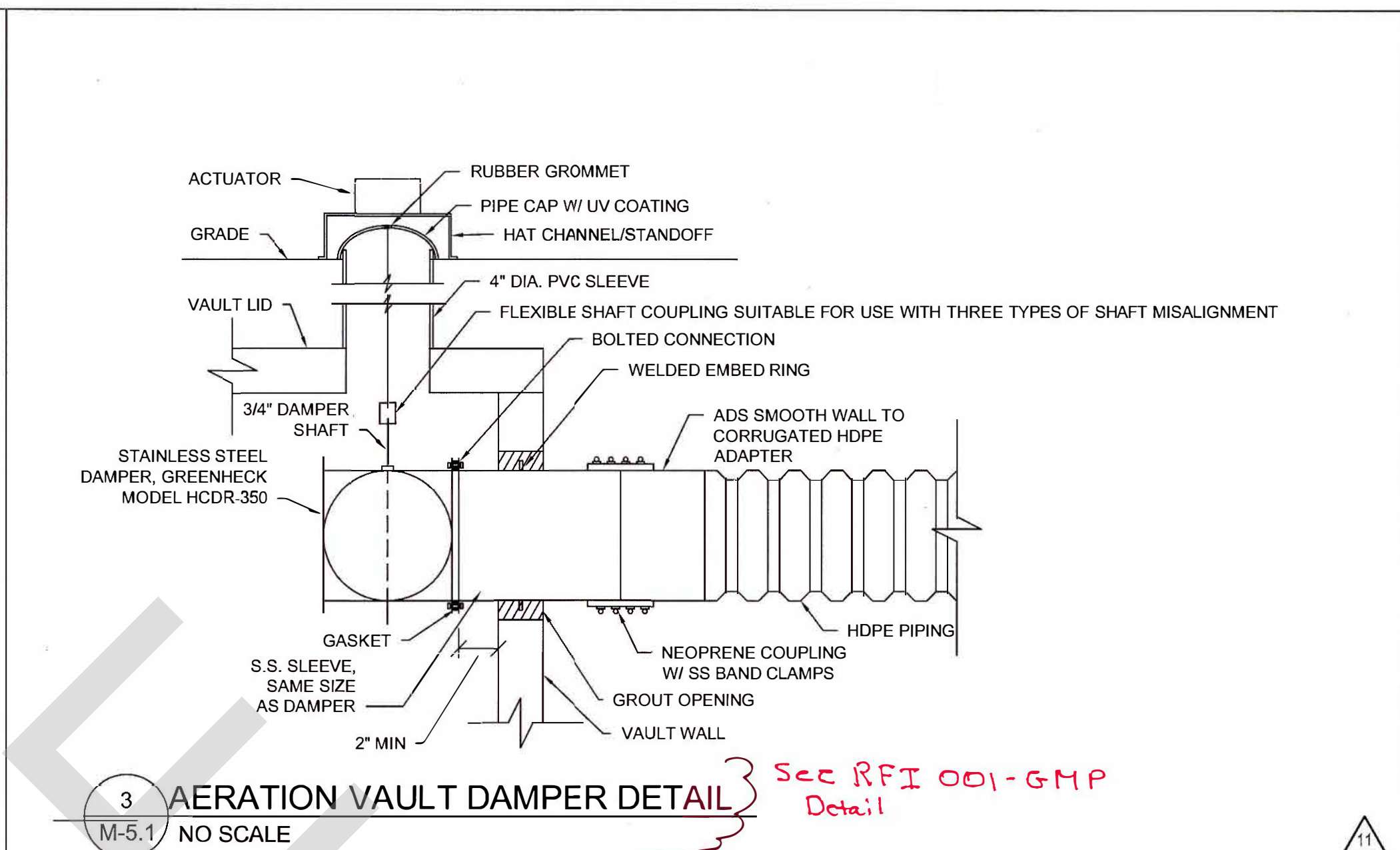
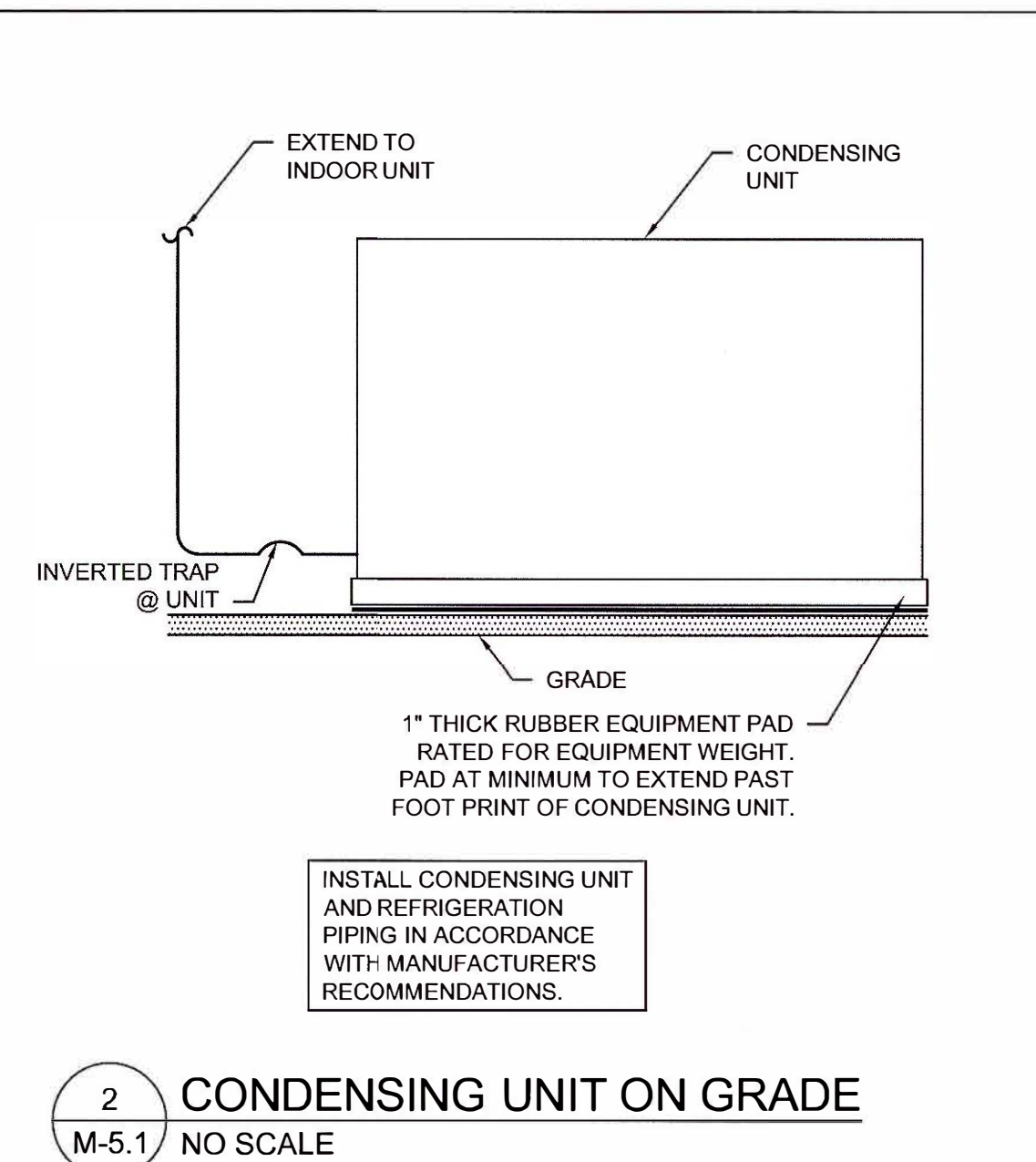
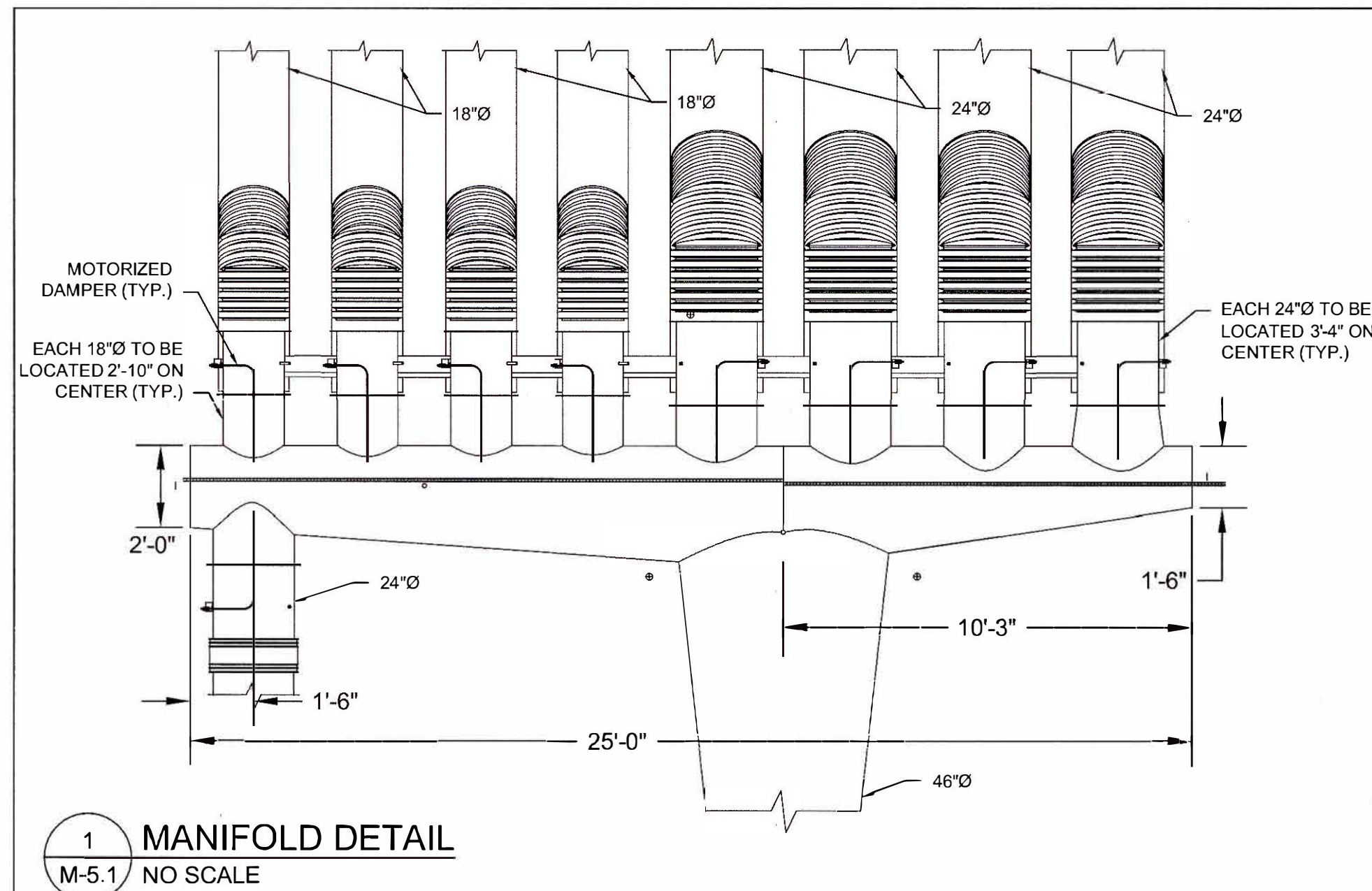
	Zone 5 at manifold	Zone 6 at manifold	Zone 7 at manifold	Zone 8 at manifold
Air volume at manifold	3280 cfm	3280 cfm	2187 cfm	2187 cfm
Diameter at manifold	18"	18"	18"	18"
Speed	1857 FPM	1857 FPM	1238 FPM	1238 FPM
Length	232 feet	255 feet	278 feet	298 feet
# 45 deg bends	6	6	6	6
# 90 deg bends	0	0	0	0
Manifold pressure loss	0.72" w.c.	0.79" w.c.	0.38" w.c.	0.44" w.c.
Zone pressure loss calculation	2.455" w.c.	2.515" w.c.	1.225" w.c.	1.255" w.c.

	Zone 1 at manifold	Zone 2 at manifold	Zone 3 at manifold	Zone 4 at manifold
Air volume at manifold	31769 cfm total	6461 cfm	5627 cfm	4373 cfm
Diameter at manifold	46"	24" each zone	24"	24"
Speed	2832 FPM	2058 FPM	1792 FPM	1393 FPM
Length	15 feet	138 feet	161 feet	204 feet
# 45 deg bends	0	4	4	4
# 90 deg bends	2	0	0	0
Manifold pressure loss	0.07" w.c.	0.37" w.c.	0.32" w.c.	0.24" w.c.
Zone pressure loss calculation		3.08" w.c.	2.4" w.c.	1.59" w.c.

BF Cooler Minimum	BF Cooler Maximum
3500 cfm	32667 cfm
24"	24"
1115 FPM	10407 FPM
40.9 feet	40.9 feet
2	2
1	1
0.45" w.c.	3.62" w.c.
0.53" w.c.	3.69" w.c.



AS-BUILT



AS-BUILT

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CITY OF PHOENIX
RESOURCE INNOVATION CAMPUS COMPOST FACILITY
AT 27th AVE LANDFILL COMPLEX
3060 SOUTH 27TH AVENUE
PHOENIX, ARIZONA 85009

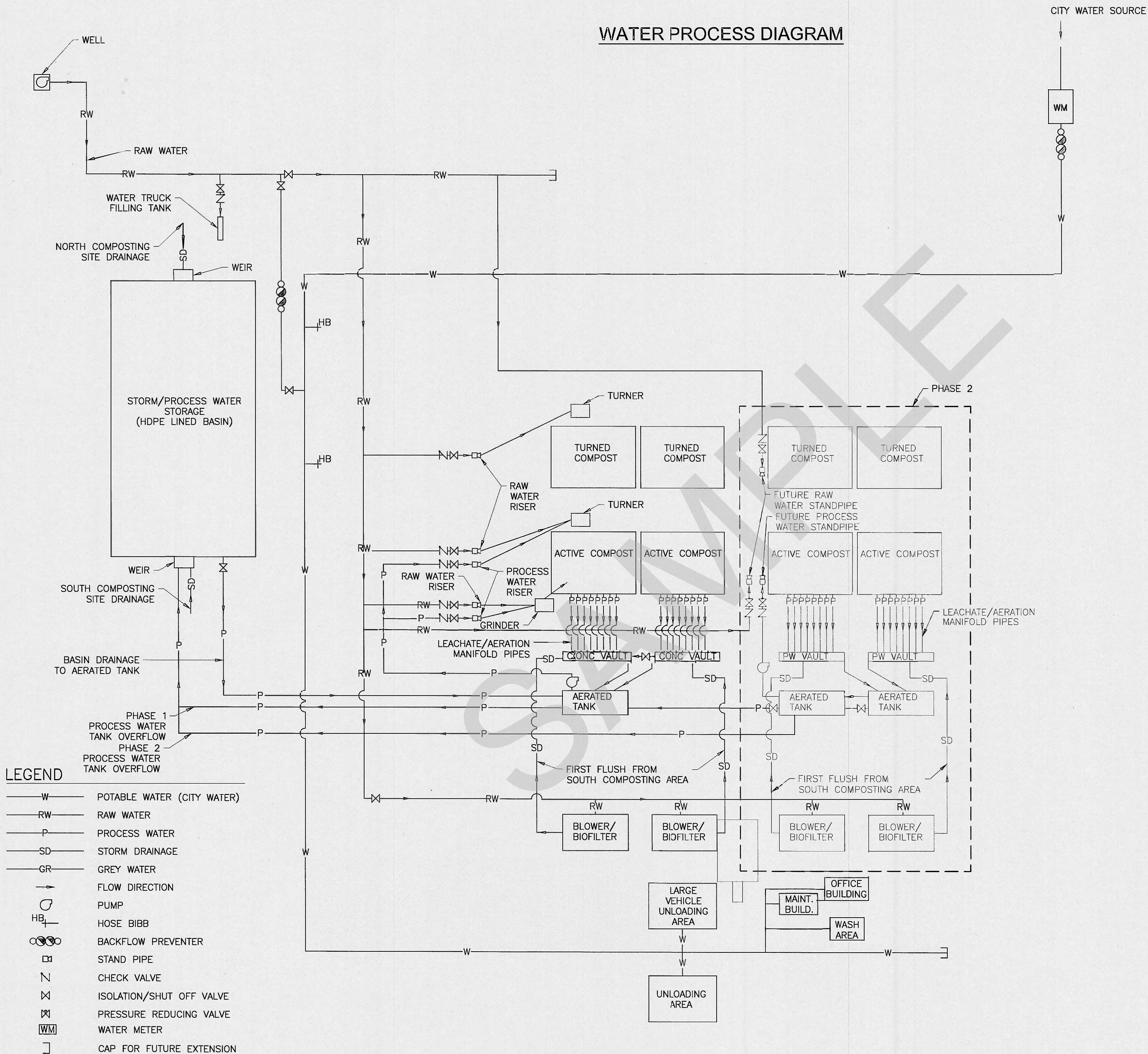
NO.	REVISION	DATE
1	City Review Comments	9/15/2016
2	Owner Scope Reduction	9/15/2016
3	ASI GMP-001	11/10/2016
4	ASI GMP-004	11/22/2016
5	ASI GMP-005	11/29/2016
6	ASI-009	1/4/2017
7	ASI-010	1/12/2017

PROJECT NO.: 2014.057
DATE: 1/12/2017
DESIGNED BY: MBS
DRAWN BY: WTE
APPROVED BY: MBS

SHEET TITLE:
M-5.1
MECHANICAL
DETAILS

SHEET NUMBER:
M-5.1

WATER PROCESS DIAGRAM



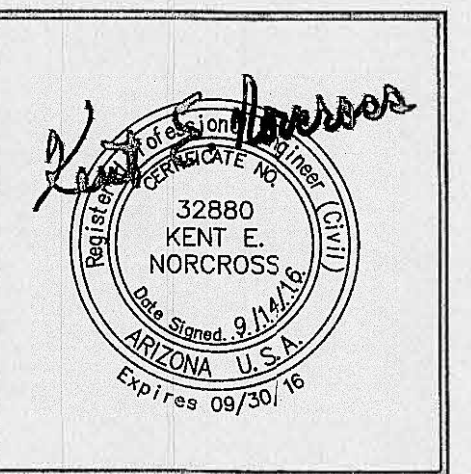
FILE NAME: CS Y - WATER PROCESS DWC PLOTTED: 9/14/2018 4:18 PM BY: TRAVIS DINN



Arrington Watkins Architects

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REVISIONS	DATE

PROJECT NO.: _____

DATE: 09/14/2016

DESIGNED BY: TCW

DRAWN BY: TGD

APPROVED BY: AAC

SHEET TITLE:

WATER PROCESS DIAGRAM

SHEET NO.: _____

CU6.1

AS-BUILT PERMIT SET

24" DIA WATERTIGHT COVER
COP STD DET P1424 (TYP)

FRAME & COVER, COLLAR
MAG STD DET 422 (TYP)

RISERS

4" NORTH INLET
INV=1031.72 (NORTH TANK)
INV=1031.72 (SOUTH TANK)

LEVEL SENSOR
WEIL 8230 TETHERED
LEVEL
CONTROL OR EQUAL
ANCHOR TO VAULT PER
MANUFACTURER'S
RECOMMENDATIONS

BLOCKOUT &
SEAL
PENETRATION

16'-7"

8'-1"

NOTES:

1. TANKS SHALL BE 5,000 GALLON PRECAST CONCRETE SEPTIC TANK, MODEL ST5000 BY JENSEN PRECAST, MODIFIED, OR APPROVED EQUAL.
2. TANK SHALL INCLUDE FLOAT-TYPE LEVEL SENSOR PROVIDING ALARM WHEN 85% FULL PER AAC R18-9-E314.
3. TANK FOUNDATION, BEDDING, & BACKFILL SHALL BE IN ACCORDANCE WITH MAG STD SPEC SECTION 601.
4. REFER TO ELECTRICAL PLANS FOR POWER & CONTROLS.

5,000 GALLON TANK
NTS

SECTION A-A

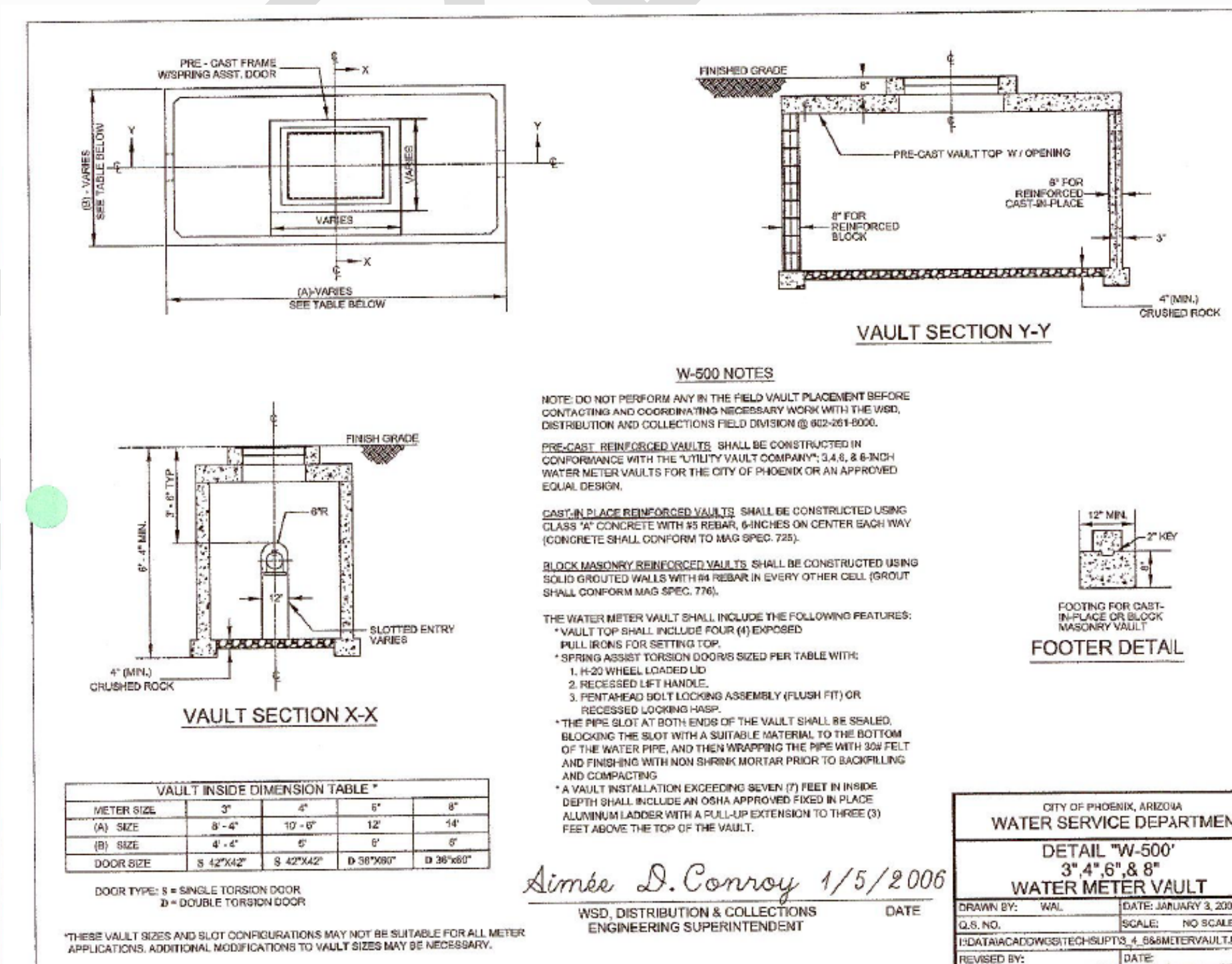
CONSTRUCTION NOTES

- 71 POTABLE WATER LINE, DIP CL 350
MAG STD DET 303,
W/BLUE POLYWRAP
COP SEC 750.2, MAG SEC 610.6.2 & 610.6.3
SIZE PER PLAN
TRENCH TYPE B, DET C, SHT CU4.1
- 74 WATER METER VAULT
SIZE PER PLAN
COP WSD STD DET W-500
METER SHALL BE INSTALLED BY CITY CREWS
- 76 REMOVE CAP &
CONNECT TO EXST VALVE
- 80 REDUCED PRESSURE BACKFLOW PREVENTER
SIZE PER PLAN
COP STD DET P1351

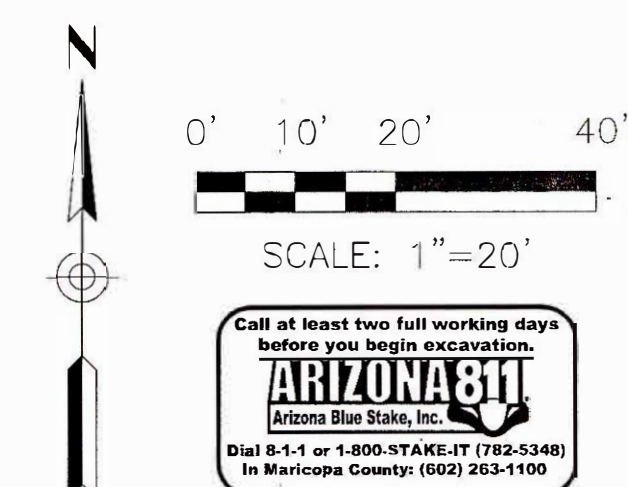
JOC RFI
06

REFERENCE NOTES

- 8 WATER MAIN
SEPARATE CONTRACT
- 33 ONSITE FIRE LINE
REFER TO FIRE LINE PLAN



AS-BUILT



MATCH LINE SEE SHEET CU1.6

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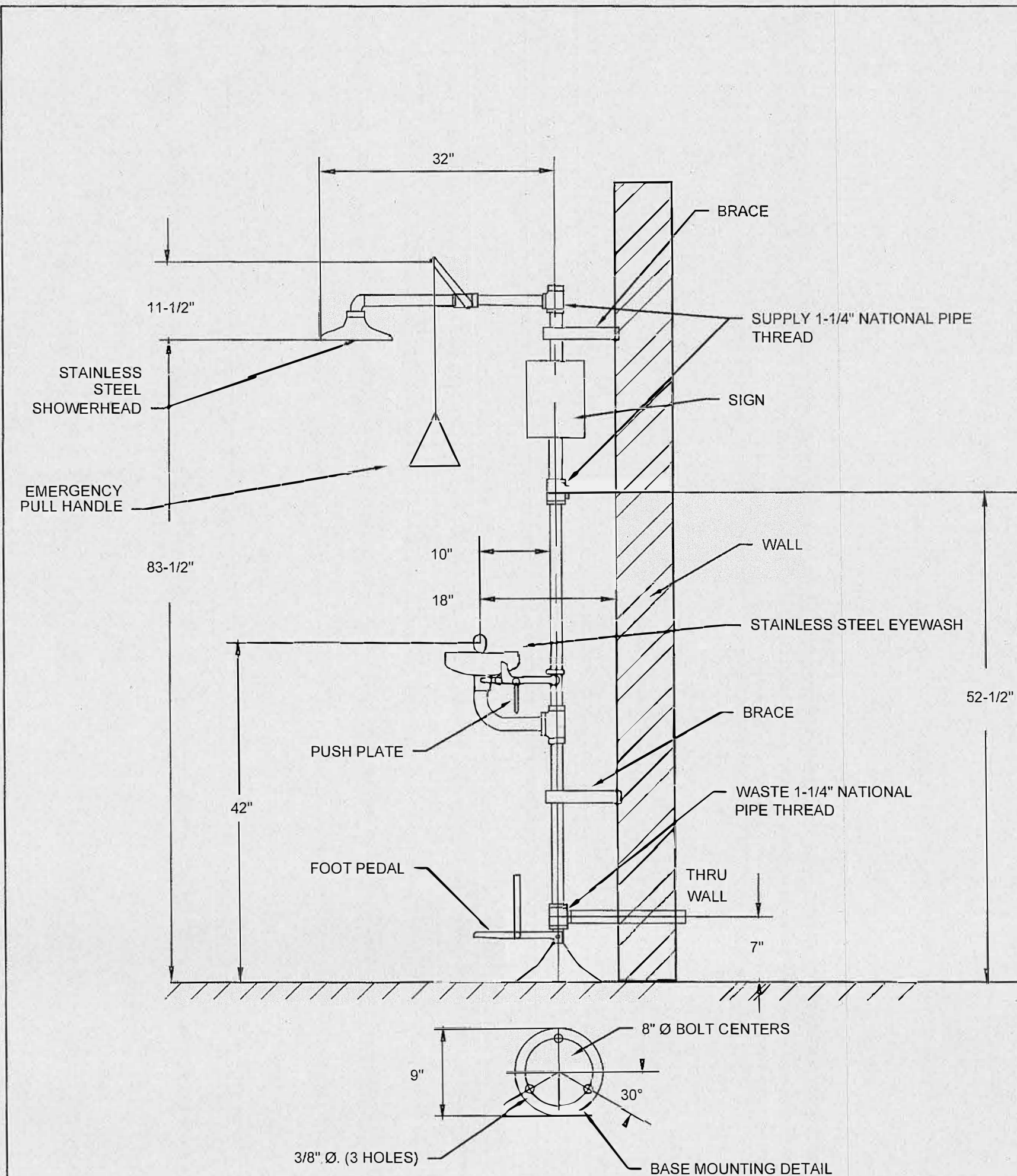
REVISIONS	DATE
6	RFI 066 1/23/17
12	ASI 011 2/7/17
14	MCSO COMMENTS 3/21/17

PROJECT NO.:
DATE: 10/24/2016
DESIGNED BY: TCW
DRAWN BY: TGD
APPROVED BY: AAC

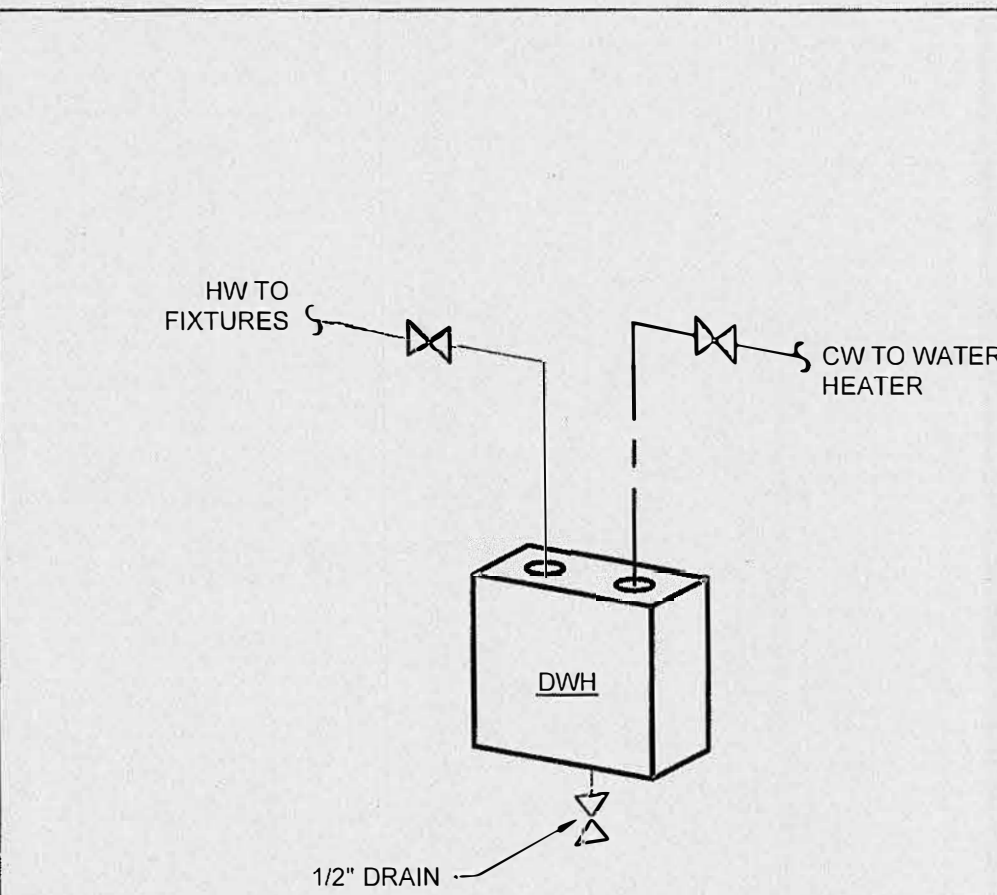
SHEET TITLE:
UTILITY PLAN
SHEET NO.:

CU1.7

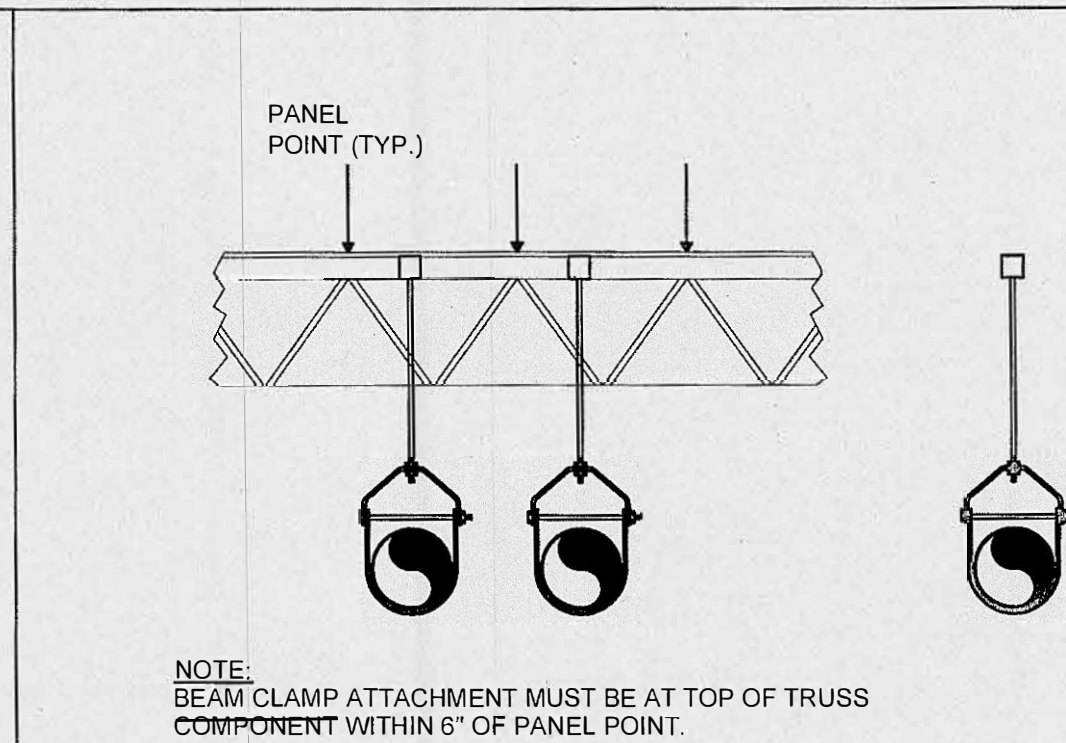
PERMIT SET



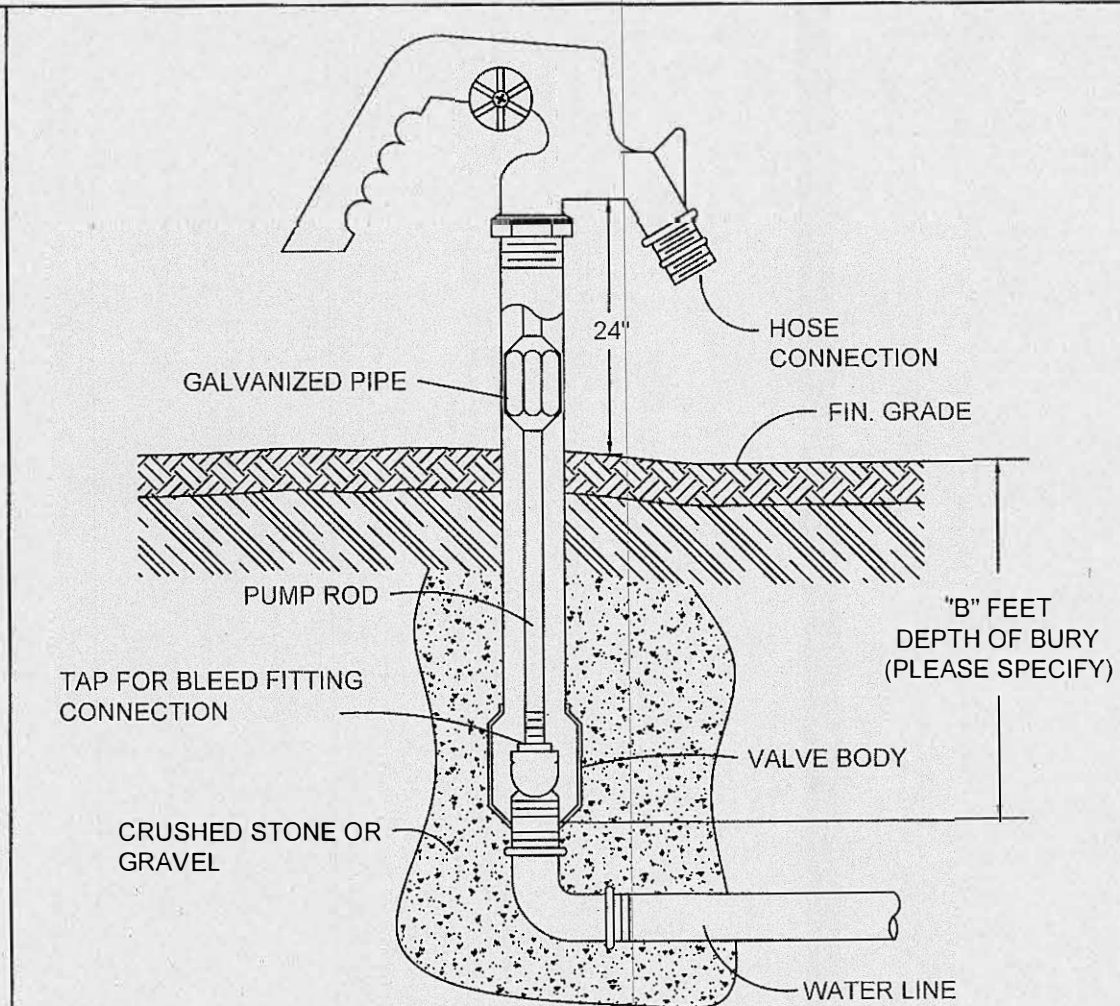
1 EMERGENCY EYEWASH DETAIL
P-5.1 NO SCALE



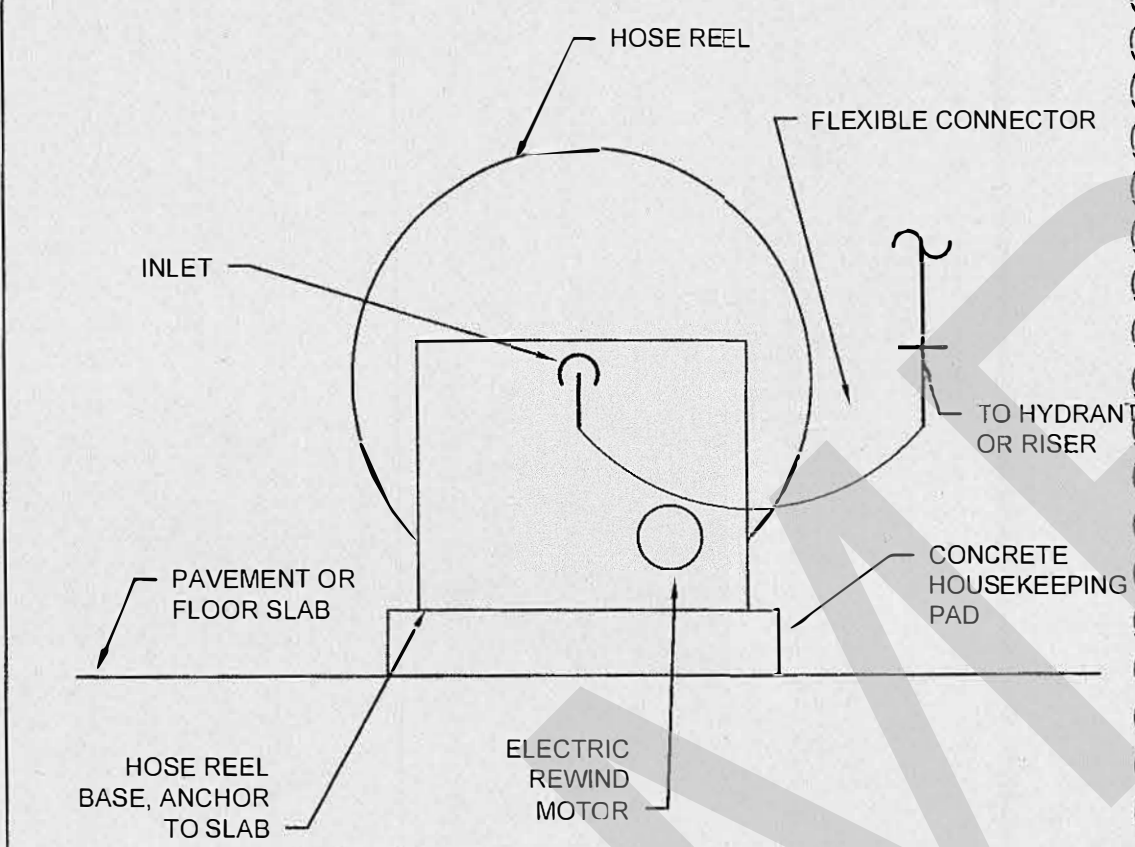
2 INSTANTANEOUS WATER HEATER
P-5.1 NO SCALE



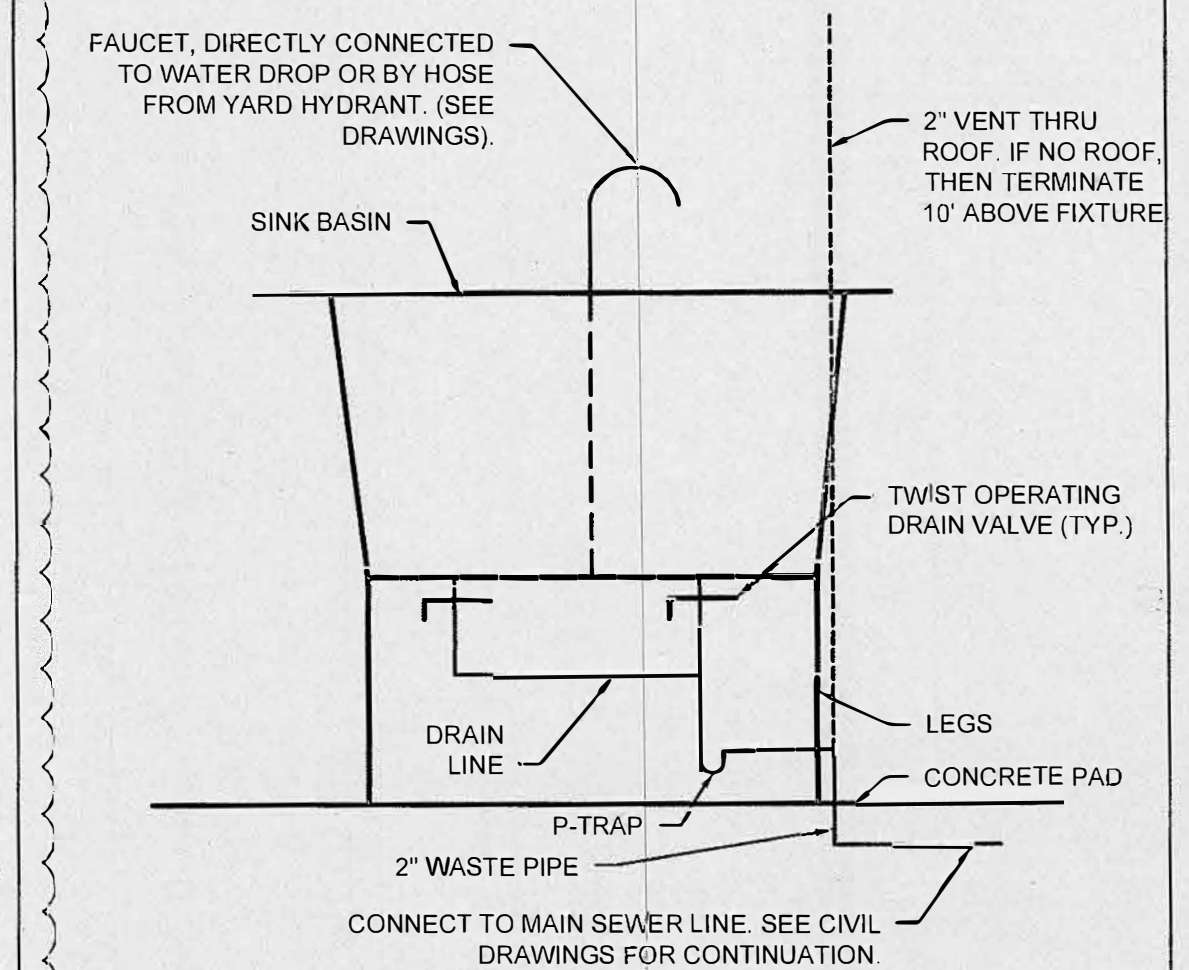
3 TYPICAL PIPE HANGER
P-5.1 NO SCALE



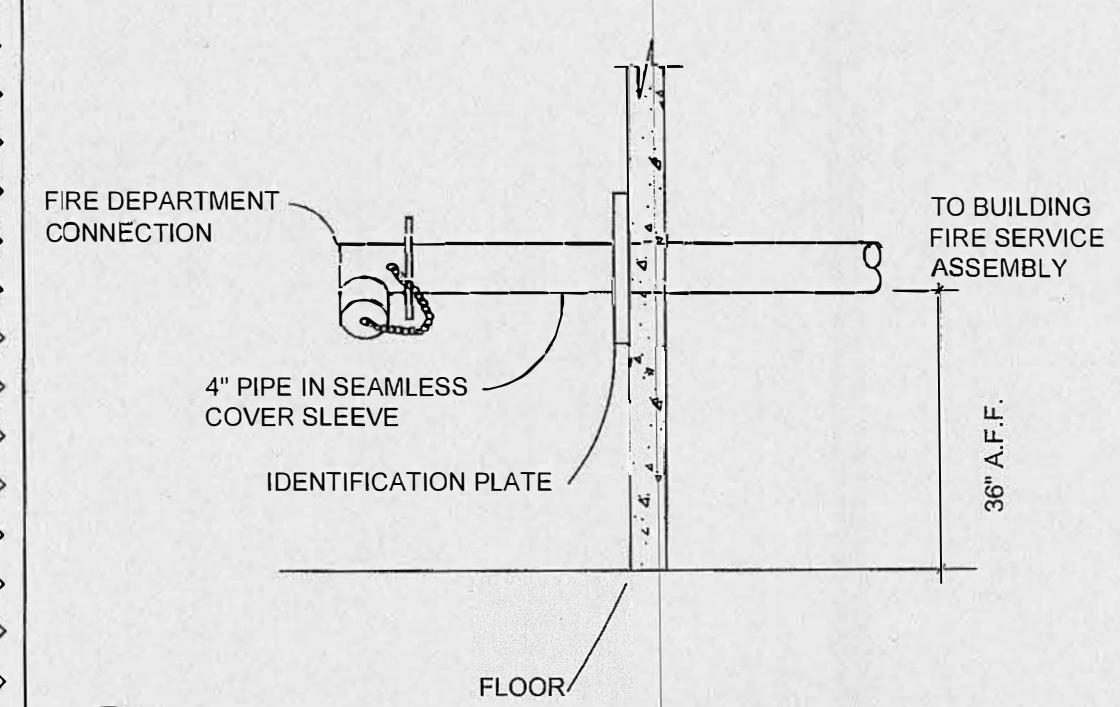
4 YARD HYDRANT DETAIL
P-5.1 NO SCALE



5 WATER HOSE REEL W/ SPRAY WAND
P-5.1 NO SCALE



7 TYPICAL SINK PIPING DETAIL
P-5.1 NO SCALE



9 FIRE CONNECTION DETAIL
P-5.1 NO SCALE

NOT USED

NOT USED

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Matthew P. Spence
Professional Engineer
License Expires 06/30/2019

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NO.	REVISION	DATE
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2	Owner Scope Reduction	9/15/2016

PROJECT NO.: 2014.057
DATE: 09/15/2016
DESIGNED BY: MBS
DRAWN BY: WTE
APPROVED BY: MBS

SHEET TITLE:
PLUMBING
DETAILS

SHEET NUMBER:
P-5.1

CITY OF PHOENIX
Planning and Development Department
By: *John P. Brown*
SEP 21 2016
This set of plans has been reviewed for PLUMBING MECHANICAL requirements prior to issuance of Building Permits and shall be kept at the construction site. Such review shall not prevent the Building Official from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law or ordinance.

AS-BUILT

PLUMBING EQUIPMENT SCHEDULE										
DESCRIPTION	SOIL/ WASTE	VENT	WATER		NOTES	MANUFACTURER	MODEL NUMBER	TRIM	MODEL NUMBER	KEYED NOTES
			COLD	HOT						
RS-1 EMERGENCY CLOUVER	-	-	1"	1"	EMERGENCY SHOWER AND EYEWASH	CHARBRIAN	61902P	-	-	6
HB-1 HOSE BIB	-	-	3/4"	-	DECONTAMINATION AREA	WOODFORD	24P	-	-	2
HR-1 WATER HOSE REEL	-	-	1-1/4"	-	WATER HOSE REEL ASSEMBLY WITH SPRAY VALVE AND 1-1/4" HOSE	WOODFORD	7628-25-26	-	-	2
SK-1 UTILITY SINK	1-1/2"	1-1/4"	1/2"	-	TWO COMPARTMENT UTILITY SINK WITH LEGS	FIAT PRODUCTS	FLTD II	CHICAGO FAUCETS	895-L8VB2-2CP	3
SK-2 UTILITY SINK	1-1/2"	1-1/4"	-	-	SINGLE COMPARTMENT UTILITY SINK WITH LEGS	FIAT PRODUCTS	FLTD II	CHICAGO FAUCETS	895-L8VB2-2CP	4
YH-1 YARD HYDRANT	-	-	1-1/4"	-	FREEZELESS UTILITY YARD HYDRANT	WOODFORD	3425M	-	-	6
YH-2 YARD HYDRANT	-	-	1"	-	FREEZELESS, POTABLE WATER YARD HYDRANT	WOODFORD	S3	-	-	5

KEYED NOTES

- 1) PROVIDE WITH HOSE BUMPER, INLET HOSE ASSEMBLY, AND MOUNTING BRACKET FOR FLOOR OR WALL INSTALLATION.
- 2) PROVIDE WITH ELECTRIC REWIND ON HOSE REEL (1/2HP, 120 VOLT), INLET FLEXIBLE HOSE ASSEMBLY, AND INCREASER FOR CONNECTION OF PISTOL GRIP NOZZLE.
- 3) PROVIDE WITH TWO (2) TWIST VALVE DRAINS WITH STRAINERS.
- 4) BASIN ONLY. NO FAUCET. PROVIDE WITH TWIST VALVE DRAIN WITH STRAINER.
- 5) PROVIDE WITH VACUUM BREAKER.
- 6) TWO EYEWASH HEADS WITH FLIP TOP DUST COVERS, INTERNAL FLOW CONTROL AND FILTER, 1" BRASS SHOWER VALVE CONTROLLED BY ACTUATING ARM AND PULL ROD.

	PLUMBING PIPE AND INSULATION SCHEDULES												
	PIPE MATERIALS					JOINING METHODS		INSULATION			VB	NOTES	
	PIPE SYSTEM	LOCATION	PRESSURE (PSIG)	TEMP. RANGE (°F)	SIZE (IN.)	TYPE/ SCHED.	PIPE MATERIAL	METHOD	INSULATION THICKNESS (IN.)	TYPE			JACKET
	DOMESTIC COLD WATER	ABOVE GRADE	<150 PSIG	45-75	ALL	"K"	CU	SW/BR	1"	FE	-	Y	1
	DOMESTIC HOT WATER	ABOVE GRADE	<150 PSIG	65-140	ALL	"K"	CU	SW/BR	-	-	-	-	
	SANITARY SEWER	ABOVE GRADE	<15 PSIG	NA	ALL	40	PVC	SOL	-	-	-	-	2
	SANITARY VENT	ABOVE GRADE	<15 PSIG	NA	ALL	40	PVC	SOL	-	-	-	-	2
	COMPRESSED AIR	ABOVE GRADE	<200 PSIG	NA	ALL	40	CU	SW/BR	-	-	-	-	

NOTES:

- 1) PROVIDE WEATHER PROOF JACKETING OR UV PROTECTIVE COATING.
- 2) PAINT PIPING WITH UV PROTECTIVE COATING.

GENERAL NOTES:

- 1.) ALL COLD WATER PIPING SYSTEMS AND COMPONENTS OPERATING AT 60°F OR BELOW SHALL BE INSULATED WITH A VAPOR BARRIER WHETHER OR NOT SPECIFICALLY LISTED ABOVE.

PIPE SCHEDULE LEGEND

ASJ ALL SERVICE JACKET	GRV RIGID, GROOVED	SCR SCREWED
BR BRAZED	GS GALVANIZED STEEL	SOL SOLVENT WELD
CG CELLULAR GLASS	HT HIGH TEMPERATURE (PLENUM RATED)	SERV SERVICE WEIGHT
CPVC CHLORINATED PVC	HVY HEAVY DUTY	SW SWEAT
CS CARBON STEEL	HS HUB & SPIGOT	TF THREADED FITTING
CI CAST IRON	MECH MECHANICAL	TS TYPE OR SCHEDULE
CU COPPER	MF MINERAL FIBER	TP/P FLEXIBLE ELASTOMERIC UNICELLULAR
DI DUCTILE IRON	NH NO-HUB W/ HVY DUTY COUPLINGS	WLD WELDED
E-AL EMBOSSED ALUMINUM	PVC POLYVINYL CHLORIDE	VB VAPOR BARRIER
FE FLEXIBLE ELASTOMERIC (NITRILE)	POLY POLYISOCYANURATE INSULATION	
FG FIBERGLASS	PP POLYPROPYLENE	Y YES
FW FUSION WELDED	PVDC POLYVINYLIDENE CHLORIDE	N NO

DOMESTIC WATER HEATER									
MANUFACTURER	MODEL	WATER		DEG. RISE	STORAGE TANK (GAL.)	KW	FLA	VOLT/ PH	NOTES
		TEMP (F)	AT 20 GPM						
DWH-1	EEMAX AP036480 EE N4	71	12	-	-	48	57.8	480/3	1.2

NOTES:

- 1) FULLY MODULATING, ELECTRIC INSTANTANEOUS WATER HEATER FOR USE WITH EMERGENCY SHOWER / EYEWASH, MAX OUTPUT TEMPERATURE OF 90 DEG F.
- 2) PROVIDE WITH FREE STANDING LEGS (24"), NON-FUSEC DISCONNECT SWITCH, THERMOSTAT, AND POWDER COATED NEMA 4 WATERPROOF ENCLOSURE.

RECEIVED
By Gina Bevington at 10:19:49 AM, 06/05/2017

JOB NAME
REQUEST FOR INFORMATION

Project: Gina Bevington/William Bruce
R.F.I. Number: 105-0MP
To: Brycon Construction
From: Brycon Construction
Date: June 6th, 2017
Description: Utility Sinks
Brycon Project Number: 16-340

Spec Section: Paragraph: Drawing Reference: PG 1 Detail

Request: On Sheet PG 1 - Plumbing Equipment Schedule, Sinks SK-1 and SK-2 (Utility Sinks) are noted with twist valves and strainers for the drains. Based on the product specified in the equipment schedule, these sinks will not accommodate a twist valve drain system due to size requirements. Please specify a sink that will accommodate a twist valve drain system or can this be removed from scope and retain the specified sinks?

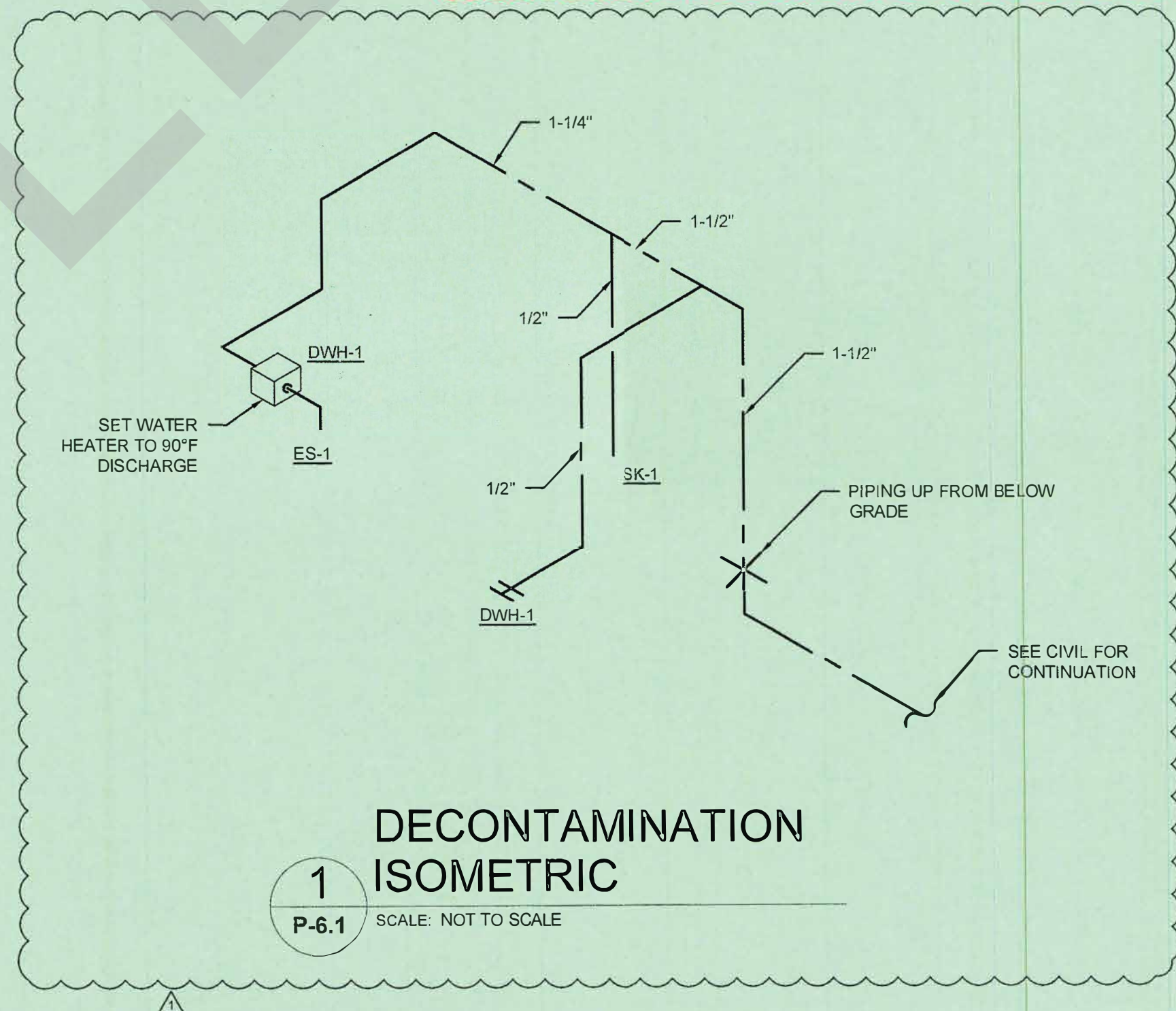
Need By: June 6th, 2017
Signed by: Kevin Smith

Originated by: Cost Impact: Yes Schedule Impact: Yes

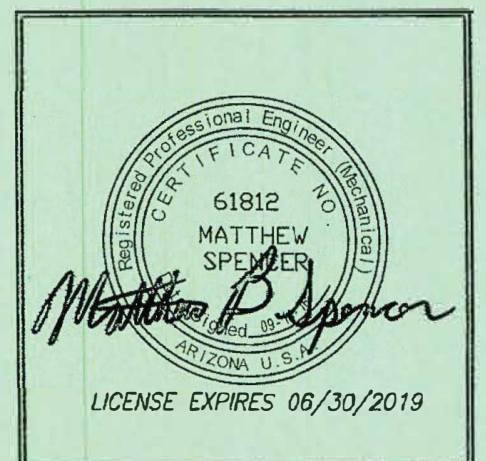
Response: It is acceptable to omit the specified twist valves for SK-1 and SK-2. Verify that sinks are provided with drain plugs with pull chains of sufficient length to permit removal of plug without reaching into basin.

Attachments: Response From: Matt Spencer, SAEC To: Date Rec'd: Date Ref'd: 6/13/17

2017.06.14
08:19:08-07'00"



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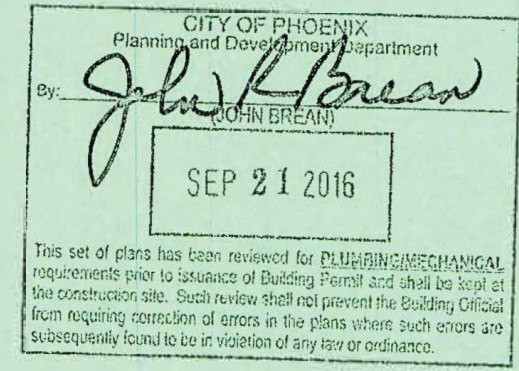
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SHEET TITLE:
PLUMBING SCHEDULES

SHEET NUMBER:
P-6.1



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