

GENERAL SHEET NOTES

- A. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE DRAWINGS 010-G-013, 010-G-014, AND 010-G-015.
- B. SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION.
- C. DIMENSIONS TO EXISTING STRUCTURAL ELEMENTS ARE BASED OFF OF ORIGINAL CONSTRUCTION DRAWINGS AND SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



SHEET KEYNOTES

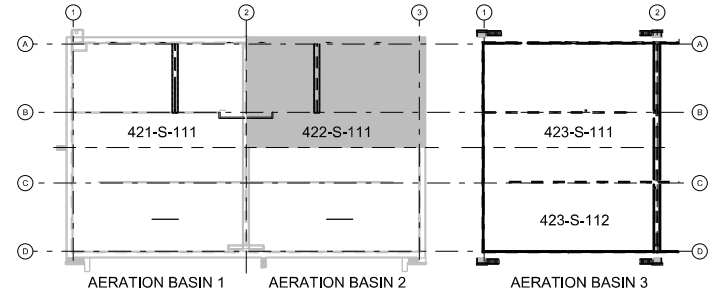
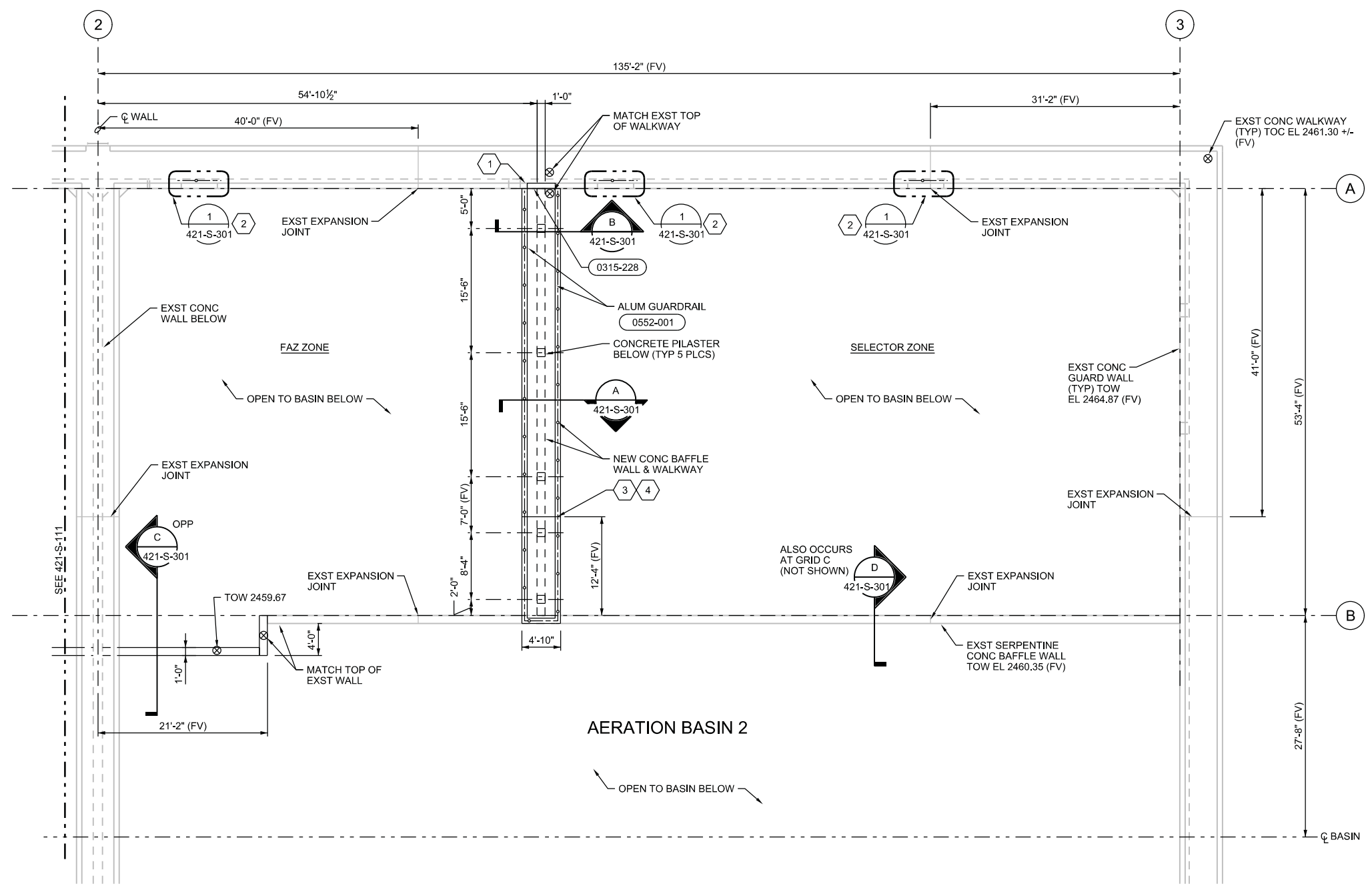
- 1. DEMOLISH EXISTING CONCRETE GUARDRAIL FOR ACCESS TO NEW WALKWAY. SEE DWG 422-D-111.
- 2. SEE DEMOLITION PLAN. PROVIDE EXPANSION JOINT IN RAIL WHERE RAIL CROSSES EXISTING EXPANSION JOINT IN STRUCTURE.
- 3. EXPANSION JOINT, OMIT WATERSTOP. MATCH LOCATION OF EXISTING EXPANSION JOINT IN BASIN BELOW. SEE 0315-216
- 4. PROVIDE EXPANSION JOINT IN ALUMINUM GUARDRAIL ON EACH SIDE OF WALKWAY.

NO.	DATE	DSGN	CHK	REVISION	BY	APVD
		W KOHLER	L HENDERSHOTT		B HERMAN	G THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
STRUCTURAL
AERATION BASIN 2 NORTH UPPER LEVEL PLAN

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE: DECEMBER 2014
PROJ: 480770
DWG: 422-S-111
SHEET: 125 of 157

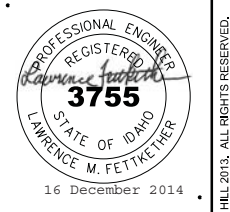


AERATION BASIN 2 NORTH UPPER LEVEL PLAN
1/8"=1'-0"

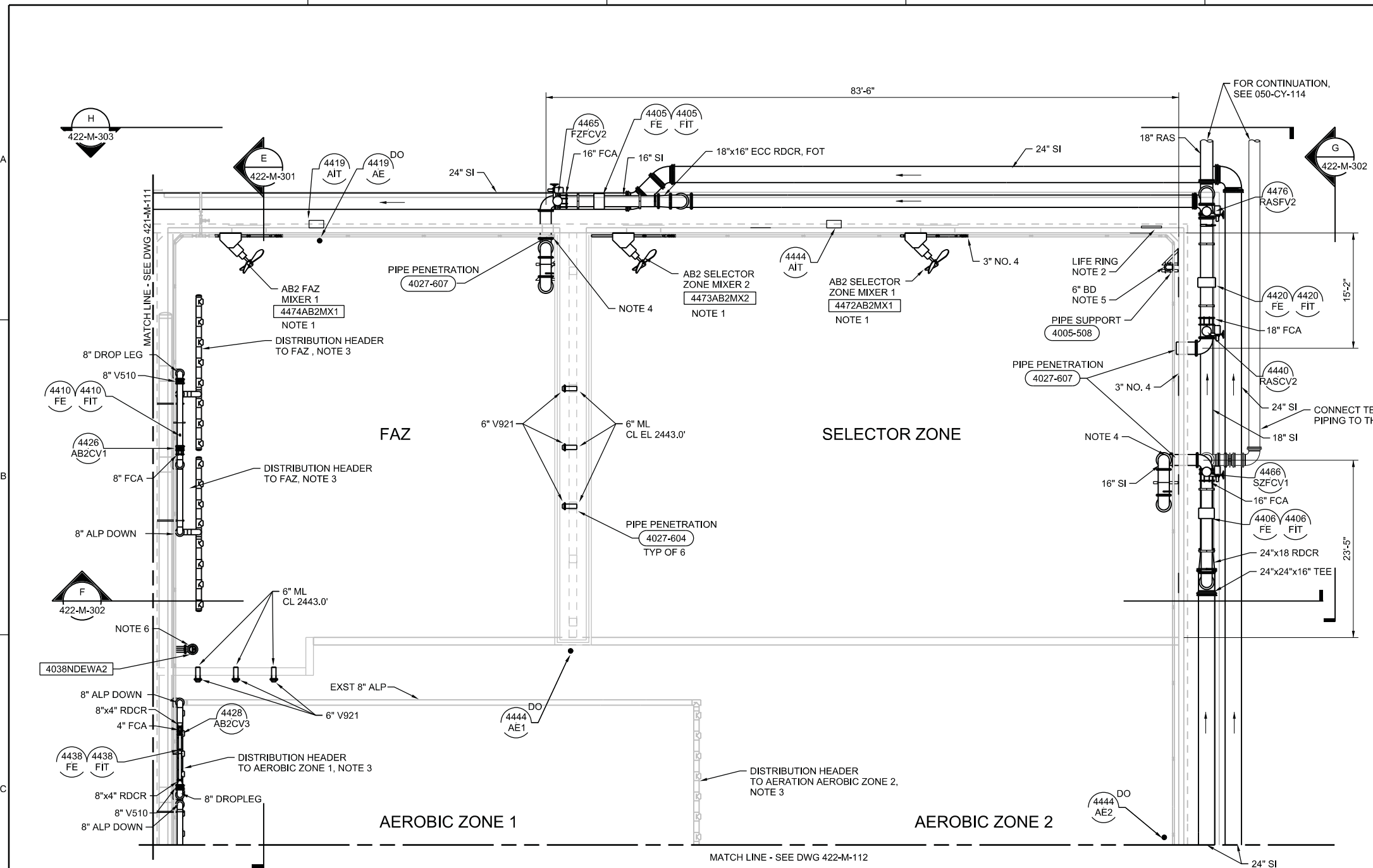
KEY PLAN
NTS

GENERAL SHEET NOTES

- NOTES:
- COORDINATE MIXER LOCATION WITH MIXER'S MANUFACTURER. FOR AERATION BASIN MIXER INSTALLATION, SEE TYP OF 3.
 - PROVIDE AND INSTALL WALL MOUNTED 33"x33"x5.5" FIBERGLASS LIFE RING CABINET, SAFETY YELLOW, NON-LOCKING T-HANDLE WITH 30" LIFE RING AND 90° ROPE WITH FLOAT AS MANUFACTURED BY CHEYENNE MANUFACTURING INC.
 - DISTRIBUTION HEADERS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. COORDINATE FINAL LOCATION AND DIMENSIONS WITH FINE BUBBLE AIR DIFFUSER SYSTEM MANUFACTURER.
 - DRILL 1" HOLE AT LOW POINT AT THE BOTTOM OF THE 16" SI.
 - PROVIDE AND INSTALL 6" FEMALE CAMLOCK AT THE TOP OF 6" BD PIPE.
 - REMOVE EXISTING SUMP PUMP, BASE ELBOW & RAILS AND SALVAGE TO CITY. INSTALL NEW BASE ELBOW, RAILS & PUMP. MODIFY RAIL TOP BRACKET SUPPORT & PIPE CONNECTION TO BASE ELBOW AS NECESSARY.

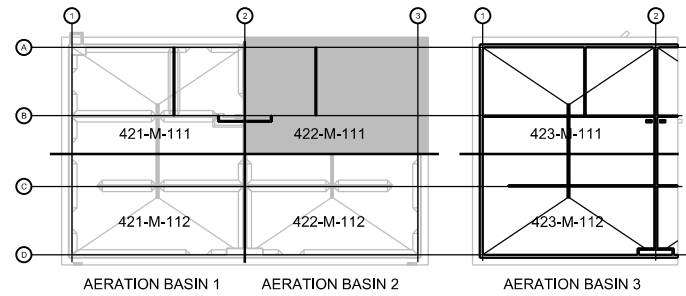


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			A. ARANGO	J. PIGMAN		L. FETTKETTER	G. THOMPSON



AERATION BASIN 2 NORTH PLAN

1/8"=1'-0"



KEY PLAN

NTS

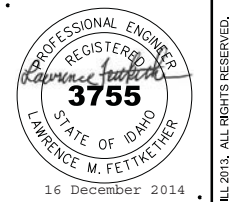
NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
PROCESS MECHANICAL
AERATION BASIN 2 NORTH
PLAN

AS NOTED
VERIFY SCALE
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DATE DECEMBER 2014
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DWG 422-M-111
SHEET 126 of 157

GENERAL SHEET NOTES

- NOTES:
1. PROVIDE AND INSTALL WALL MOUNTED 33"x33"x5.5" FIBERGLASS LIFE RING CABINET, SAFETY YELLOW, NON-LOCKING T-HANDLE WITH 30" LIFE RING AND 90' ROPE WITH FLOAT AS MANUFACTURED BY CHEYENNE MANUFACTURING INC.
 2. DISTRIBUTION HEADERS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. COORDINATE FINAL LOCATION AND DIMENSIONS WITH FINE BUBBLE AIR DIFFUSER SYSTEM MANUFACTURER.

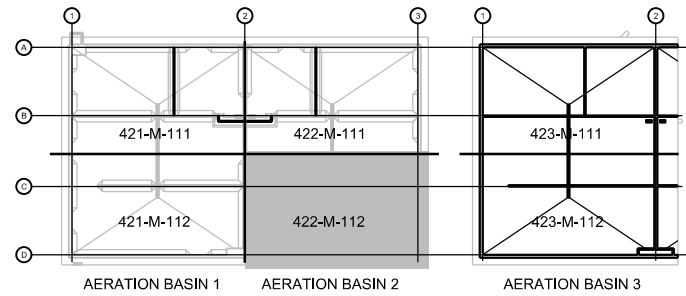
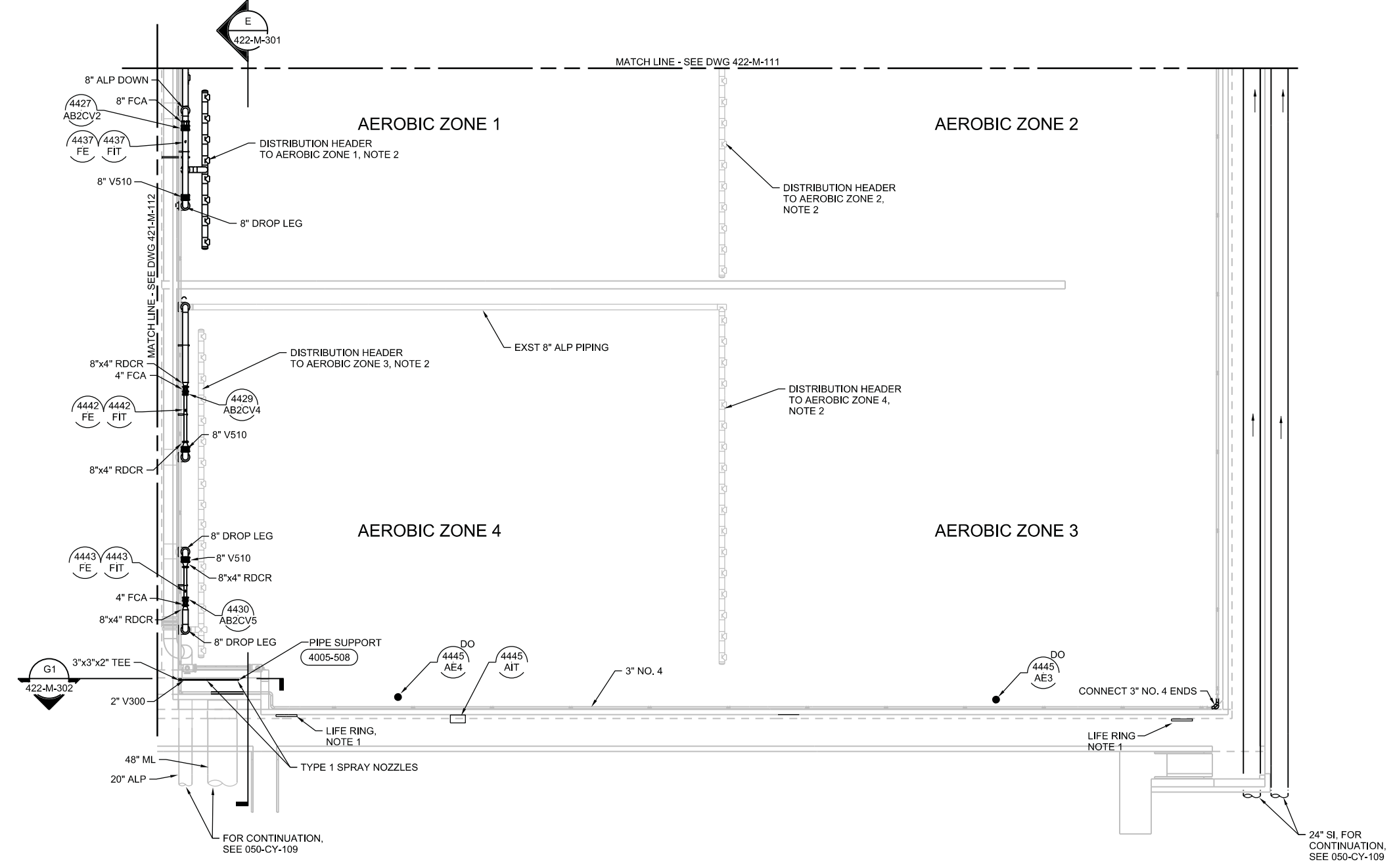


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NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
PROCESS MECHANICAL
AERATION BASIN 2 SOUTH PLAN

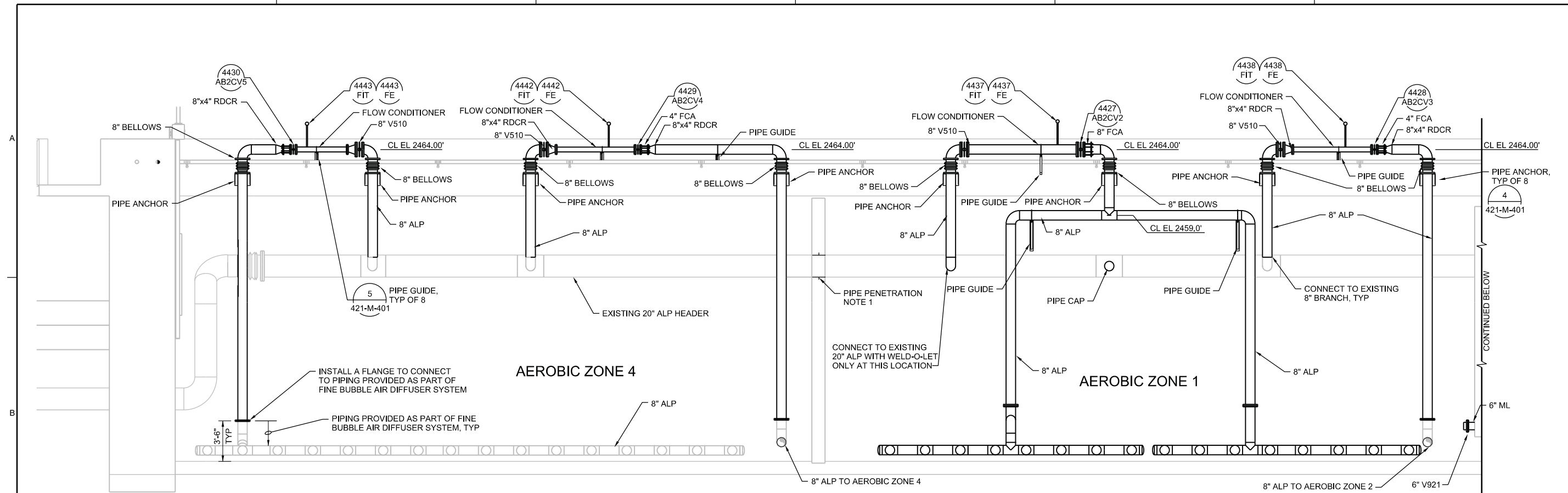
AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE DECEMBER 2014
PROJ 480770
DWG 422-M-112
SHEET 127 of 157



AERATION BASIN 2 SOUTH PLAN
1/8" = 1'-0"

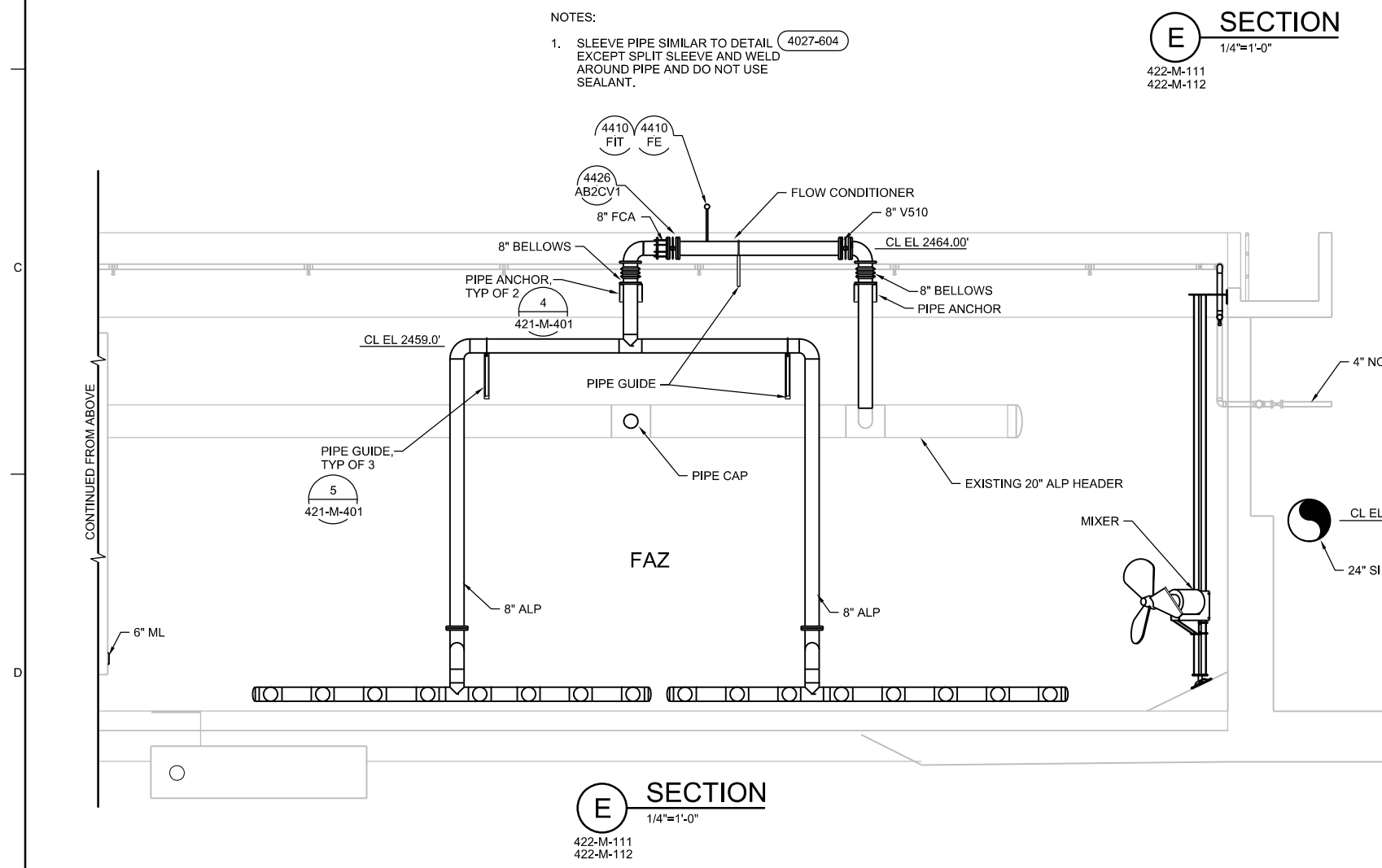


KEY PLAN
NTS

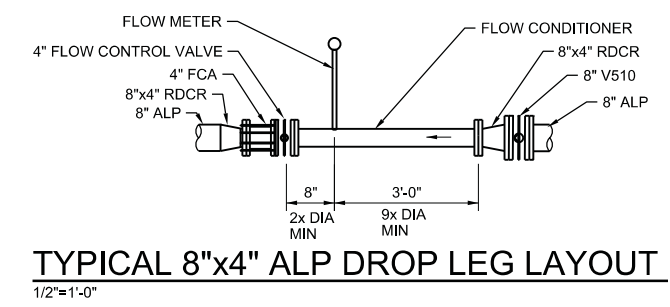


- NOTES:
1. SLEEVE PIPE SIMILAR TO DETAIL 4027-604 EXCEPT SPLIT SLEEVE AND WELD AROUND PIPE AND DO NOT USE SEALANT.

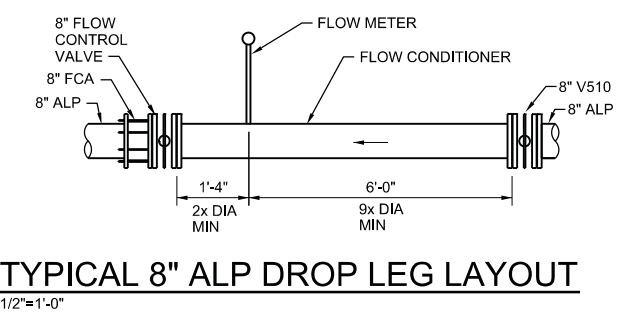
E SECTION
 1/4"=1'-0"
 422-M-111
 422-M-112



E SECTION
 1/4"=1'-0"
 422-M-111
 422-M-112



TYPICAL 8"x4" ALP DROP LEG LAYOUT
 1/2"=1'-0"



TYPICAL 8" ALP DROP LEG LAYOUT
 1/2"=1'-0"

PROFESSIONAL ENGINEER
 REGISTERED
 3755
 STATE OF IDAHO
 LAWRENCE M. FETTKETTER
 16 December 2014

NO.	DATE	DR	CHK	BY	APVD
		A. ARANGO	J. PIGMAN	L. FETTKETTER	G. THOMPSON
REVISION					APVD

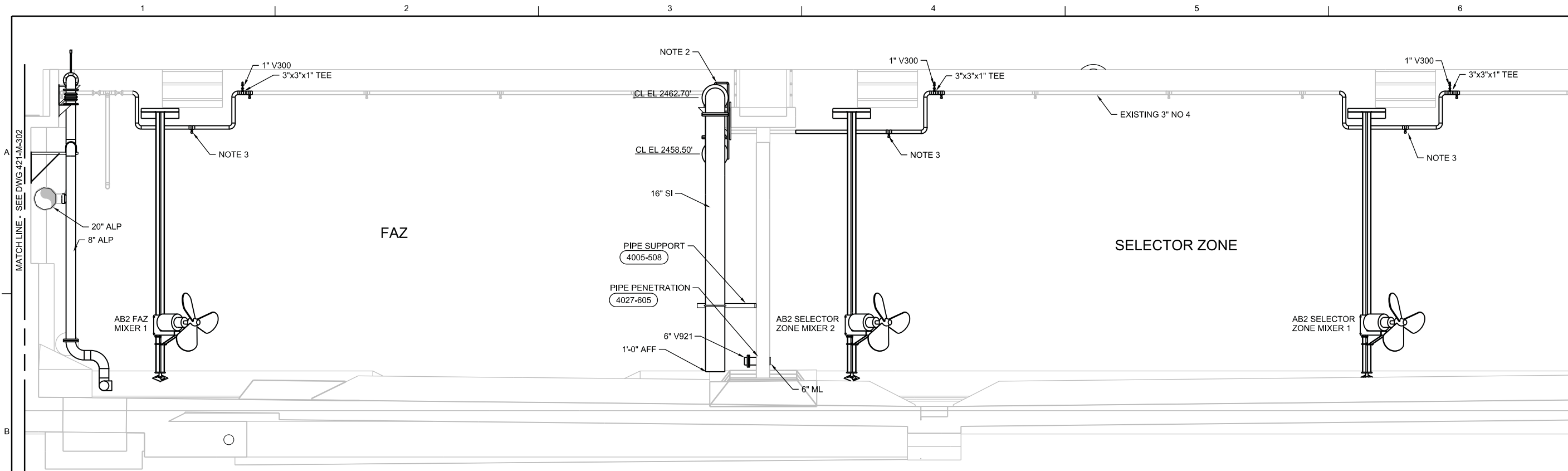
NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

CH2MHILL®

PROCESS MECHANICAL
AERATION BASIN 2 SECTIONS

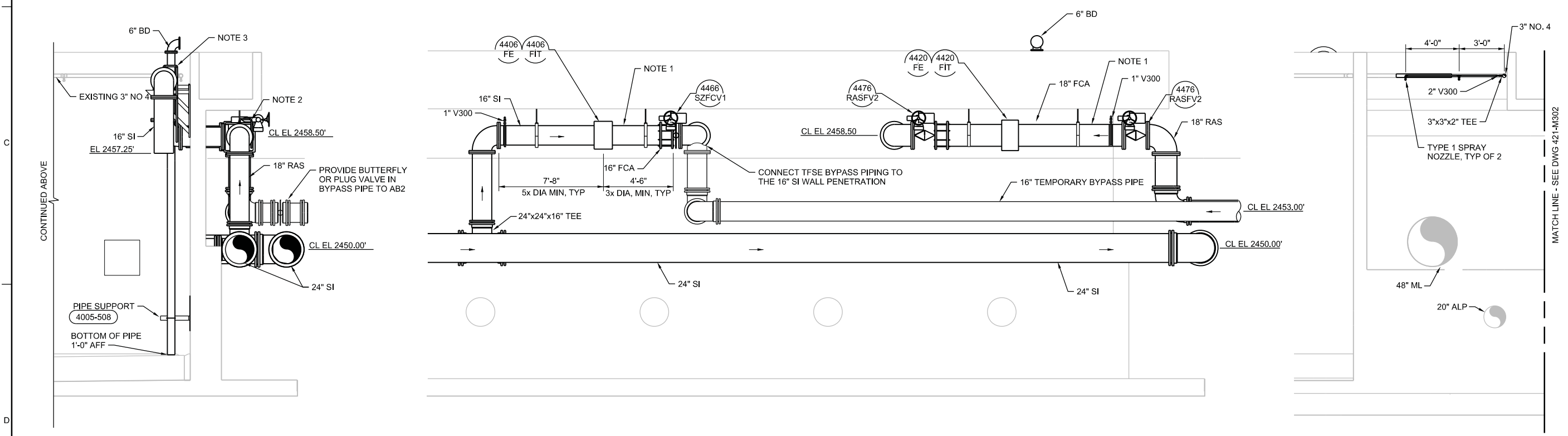
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F SECTION
1/4"=1'-0"
422-M-111

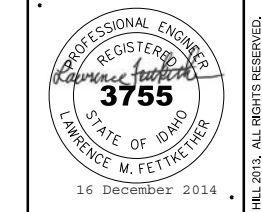
- NOTES:
- HEAT TRACE AND INSULATE ALL EXPOSED RAS AND SI PIPES OUTSIDE THE AERATION BASINS.
 - DRILL AND TAP 1" HOLE, AND ELBOW PIPE DOWN TO BASIN.
 - INSTALL AT LEAST 1 TYPE 2 NOZZLE AT EACH LOW POINT IN NO. 4 PIPE.



F SECTION
1/4"=1'-0"
422-M-111

G SECTION
1/4"=1'-0"
422-M-111

G1 SECTION
1/4"=1'-0"
422-M-111



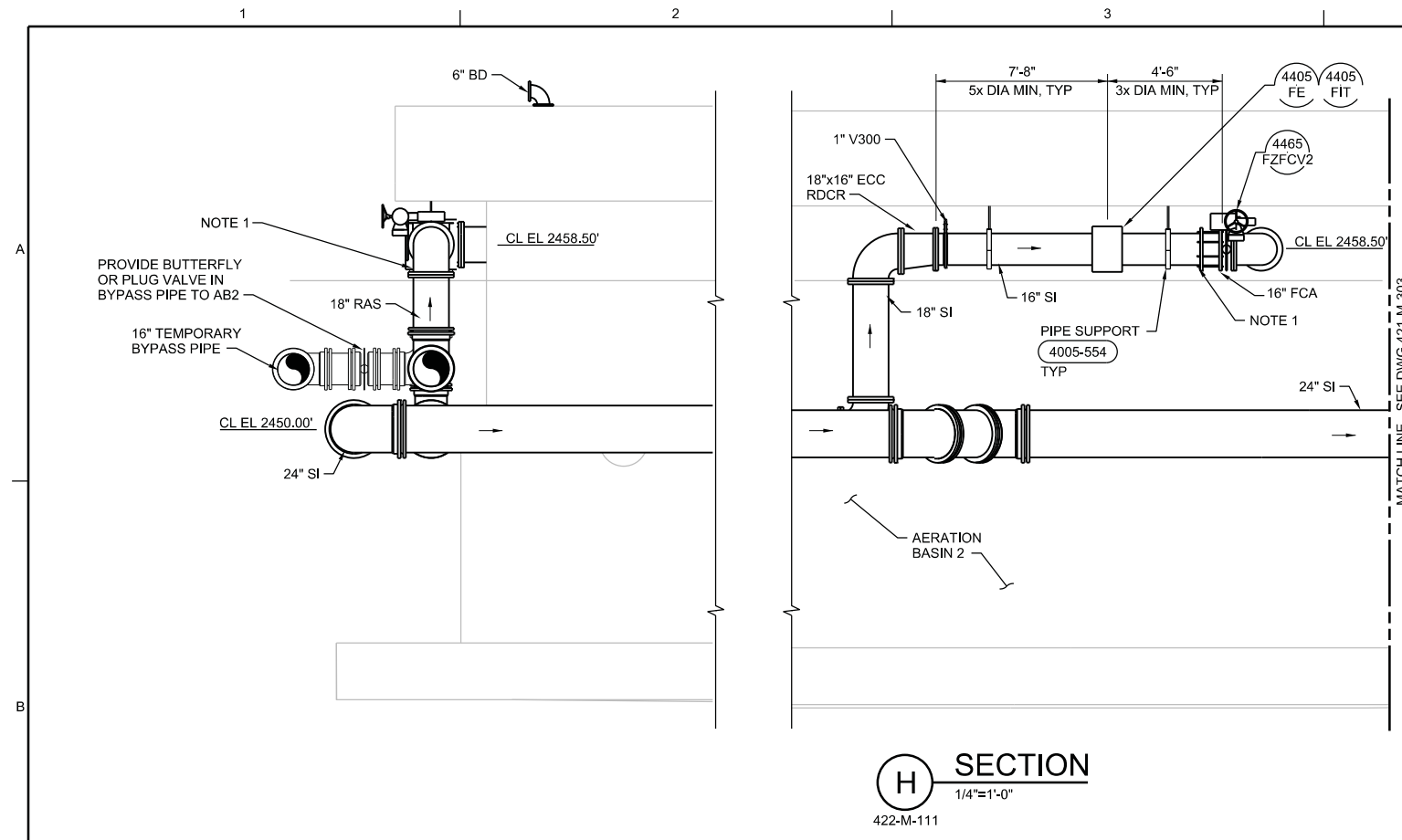
NO.	DATE	DSGN	DR	CHK	REVISION	BY	APVD
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				L. FETTKETHER			

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

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PROCESS MECHANICAL
AERATION BASIN 2 SECTIONS

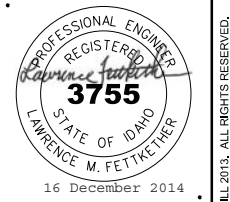
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VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE: DECEMBER 2014
PROJ: 480770
DWG: 422-M-302
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BID DOCUMENTS



H SECTION
1/4"=1'-0"
422-M-111

- NOTES:
- HEAT TRACE AND INSULATE ALL EXPOSED SI AND RAS PIPES OUTSIDE THE AERATION BASIN.



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		A. ARANGO	J. PIGMAN	G. THOMPSON
		DGN	DR	APVD
			CHK	APVD
			REVISION	BY
				APVD

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
PROCESS MECHANICAL
AERATION BASIN 2
SECTIONS

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GENERAL SHEET NOTES

- A. FOR CIRCUITS SEE BLOCK DIAGRAMS.
- B. SEE AREA CLASSIFICATION AND MATERIAL SELECTION TABLE ON DRAWING 010-G-028.

SHEET KEYNOTES

- 1. WALL MOUNT DEVICES UNDER WALKWAY.
- 2. PIPE AND CONDUIT ROUTING ALONG WALKWAY BETWEEN BASINS WILL BE CONGESTED. COORDINATE CONDUIT SUPPORTS AND ROUTING WITH MECHANICAL.
- 3. MOUNT CONDUIT ALONG WALKWAY IN ACCORDANCE WITH 2605-302.



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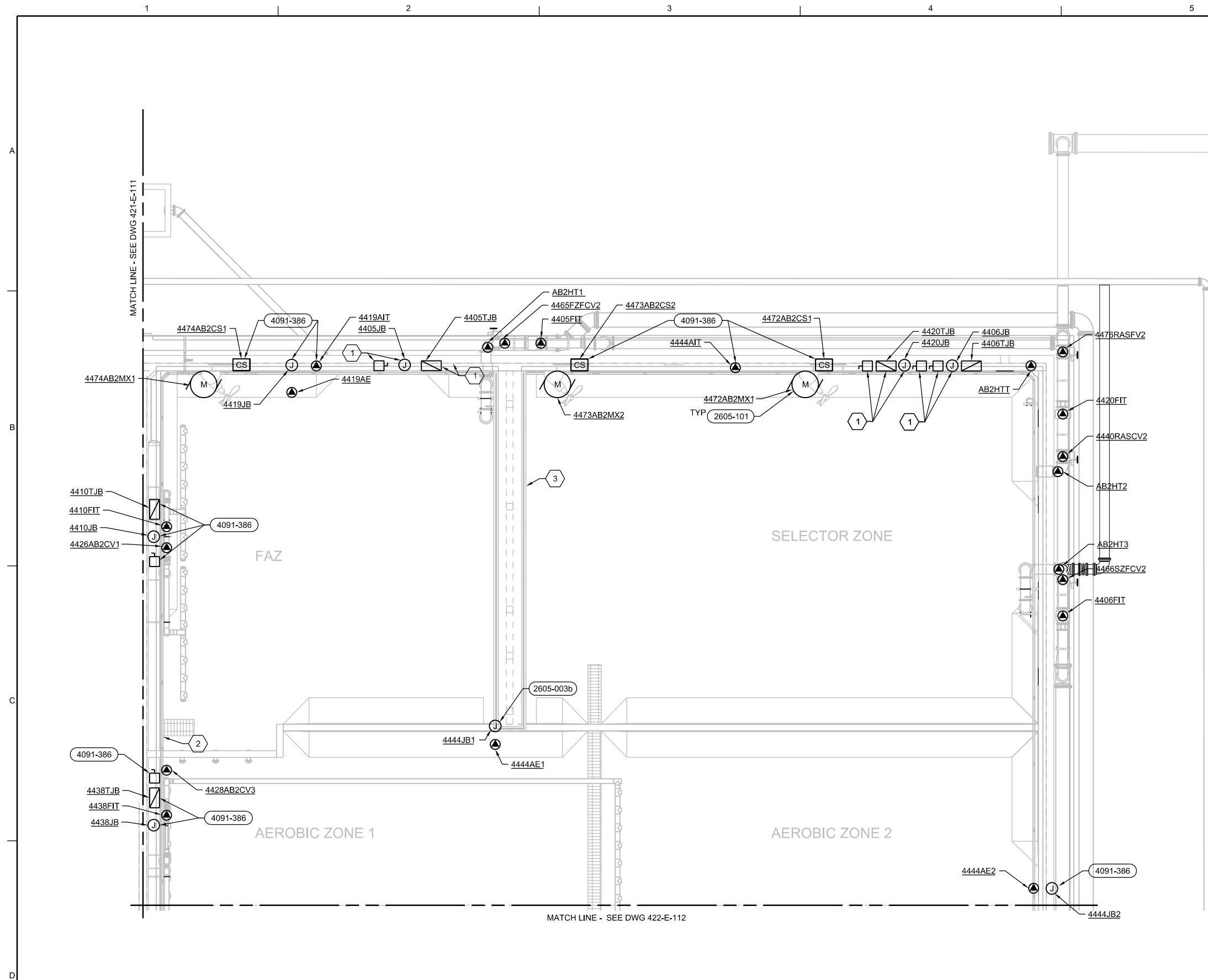
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NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL®
ELECTRICAL
AERATION BASIN 2 NORTH PLAN

AS NOTED
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DWG 422-E-111
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AERATION BASIN 2 NORTH PLAN
1/8"=1'-0"



GENERAL SHEET NOTES

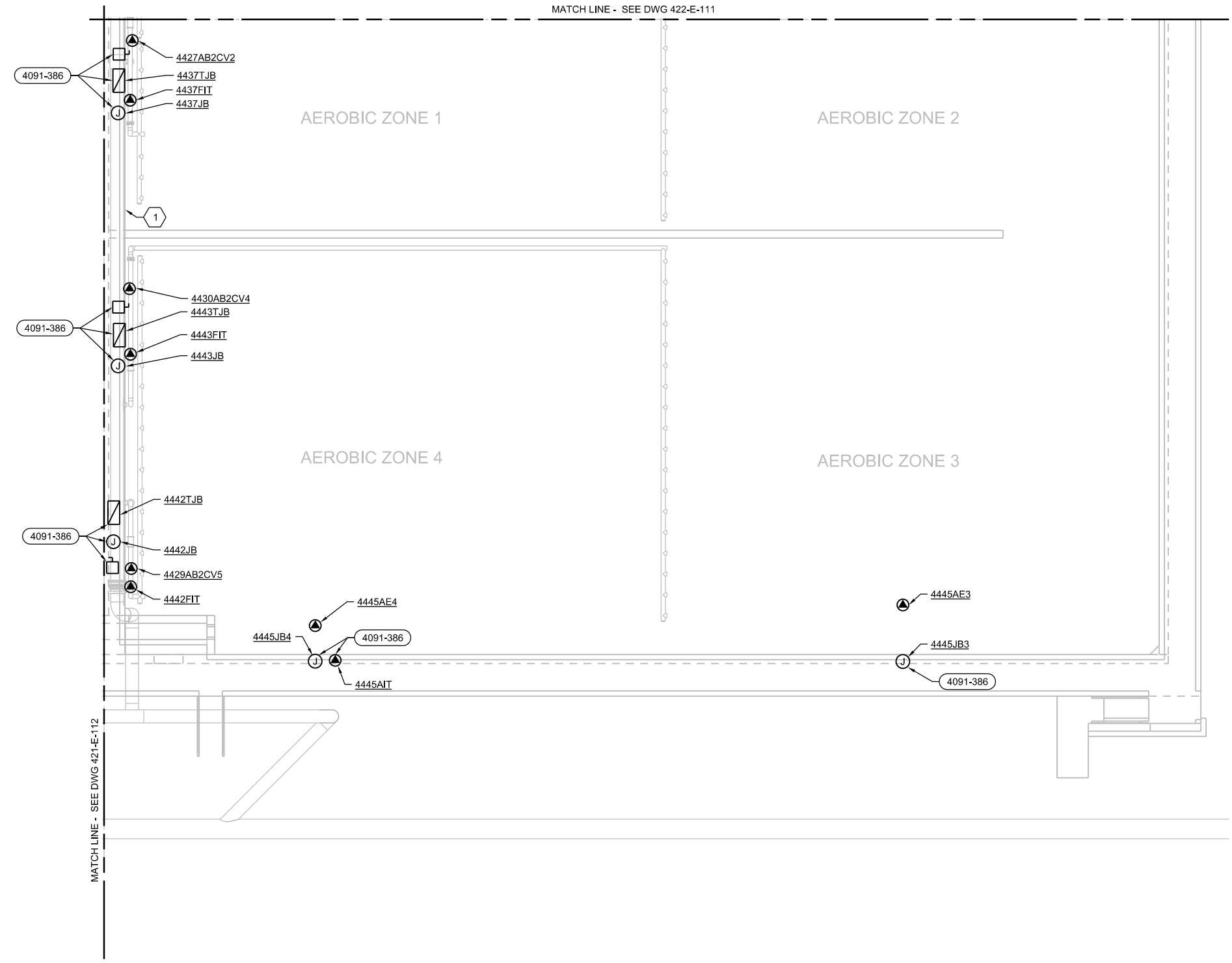
A. FOR CIRCUITS SEE BLOCK DIAGRAMS.
 B. SEE AREA CLASSIFICATION AND MATERIAL SELECTION TABLE ON DRAWING 010-G-028.

SHEET KEYNOTES

1. PIPE AND CONDUIT ROUTING ALONG WALKWAY BETWEEN BASINS WILL BE CONGESTED. COORDINATE CONDUIT SUPPORTS AND ROUTING WITH MECHANICAL.



NO.	DATE	DR	CHK	REVISION	BY	APVD
		T. PALIN	K. BARTLETT			G. THOMPSON
						M. MACROSTIE



AERATION BASIN 2 SOUTH PLAN
 1/8"=1'-0"



CH2MHILL®

ELECTRICAL
AERATION BASIN 2 SOUTH PLAN

NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

AS NOTED
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DATE: DECEMBER 2014
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DWG: 422-E-112
SHEET: 132 of 157

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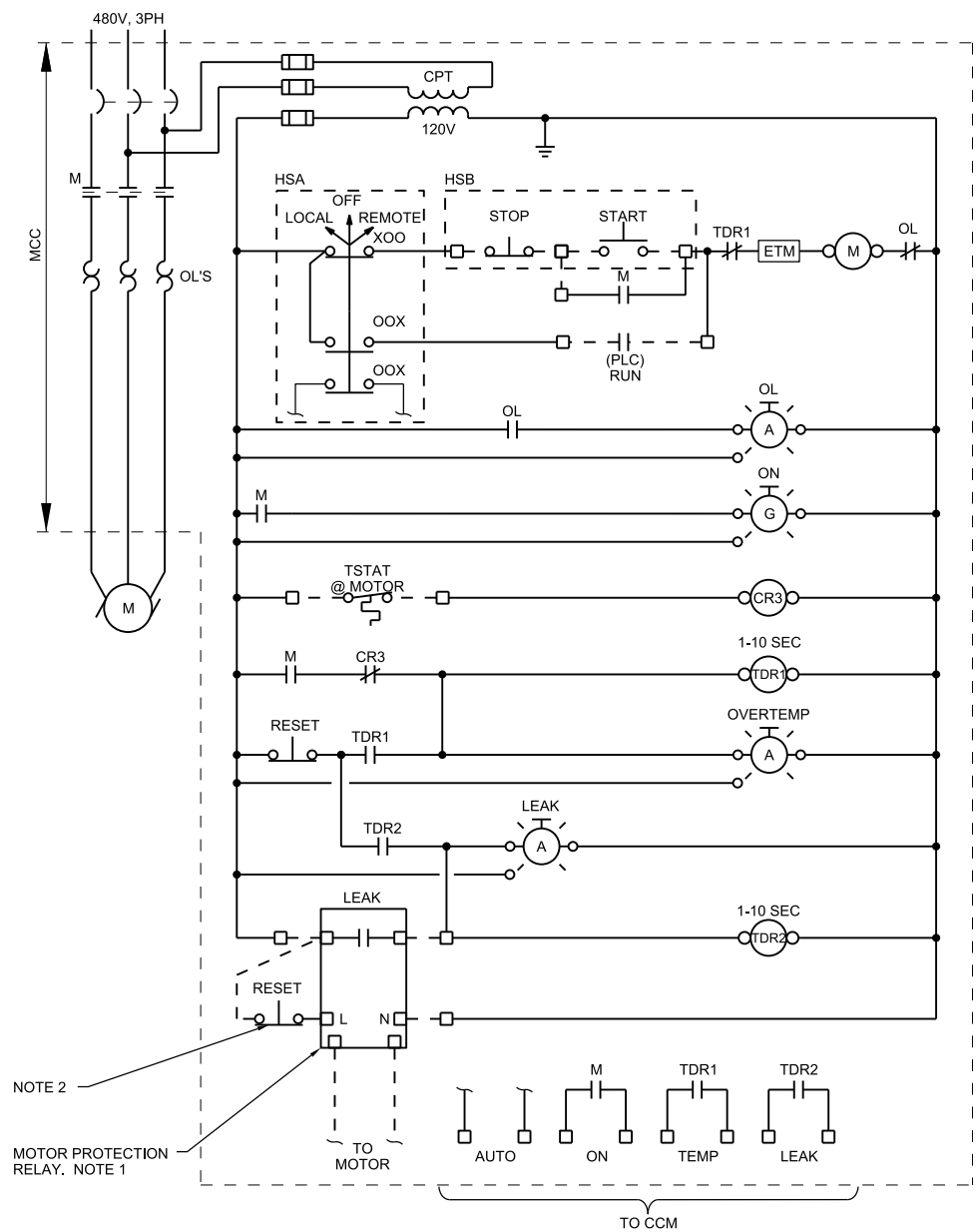
1 2 3 4 5 6

A

B

C

D



NOTE 2

MOTOR PROTECTION RELAY. NOTE 1

SUBMERSIBLE MIXER
 (4472AB2MX1, 4473AB2MX2, 4474AB2MX1)

- NOTES:
1. MOTOR PROTECTION RELAY SHALL BE PROVIDED BY PUMP SUPPLIER AND INSTALLED IN CONTROL STATION.
 2. INSTALL RESET BUTTON EXTERNAL TO MOTOR PROTECTION RELAY.



DESIGN	T. PALIN	DR	K. BARTLETT	CHK	M. MACROSTIE	APVD	G. THOMPSON
NO.		DATE		REVISION		BY	APVD

NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

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 ELECTRICAL
AERATION BASIN 2
CONTROL DIAGRAMS

AS NOTED

VERIFY SCALE

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SHEET	133 of 157

SHEET KEYNOTES

- CIRCUITS SHALL BE GROUPED INTO AND SHARED CONDUITS IN ACCORDANCE WITH DUCT BANK SCHEDULE.

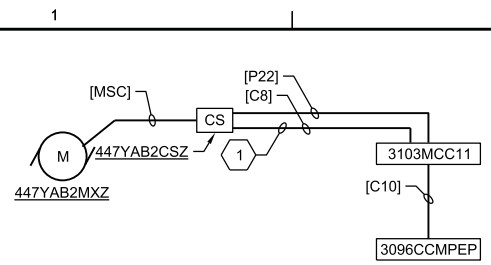


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 M. MACROSTIE
 K. BARTLETT
 T. PALIN
 DR
 REVISION
 CHK
 G. THOMPSON
 BY
 APVD
 12/15/2014

NAMPWA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPWA
 NAMPWA, IDAHO

CH2MHILL
 ELECTRICAL
**AERATION BASIN 2
 BLOCK DIAGRAMS**

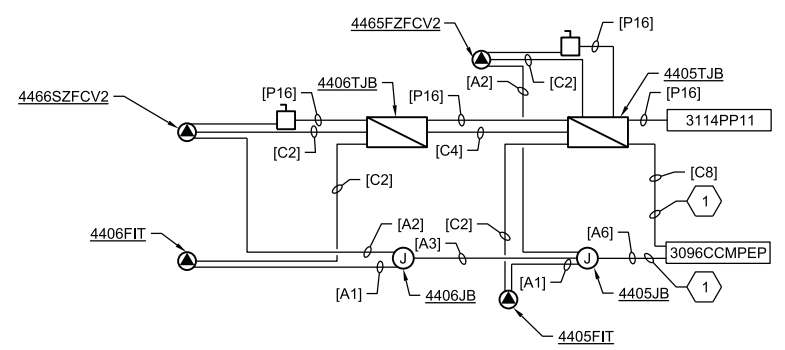
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DATE DECEMBER 2014
PROJ 480770
DWG 422-E-510
SHEET 134 of 157



Y	Z
2	1
3	2
4	1

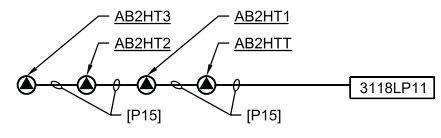
SUBMERSIBLE MIXERS

NTS



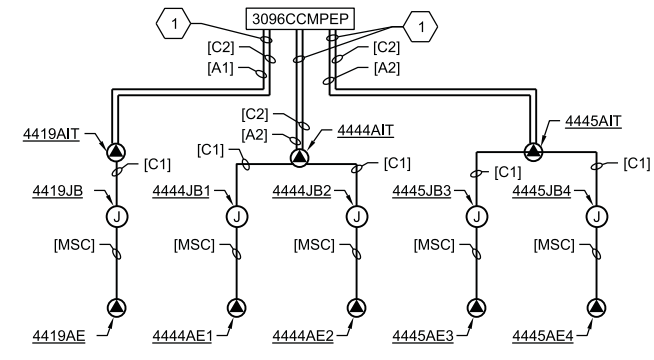
SECONDARY INFLUENT FLOW CONTROL

NTS



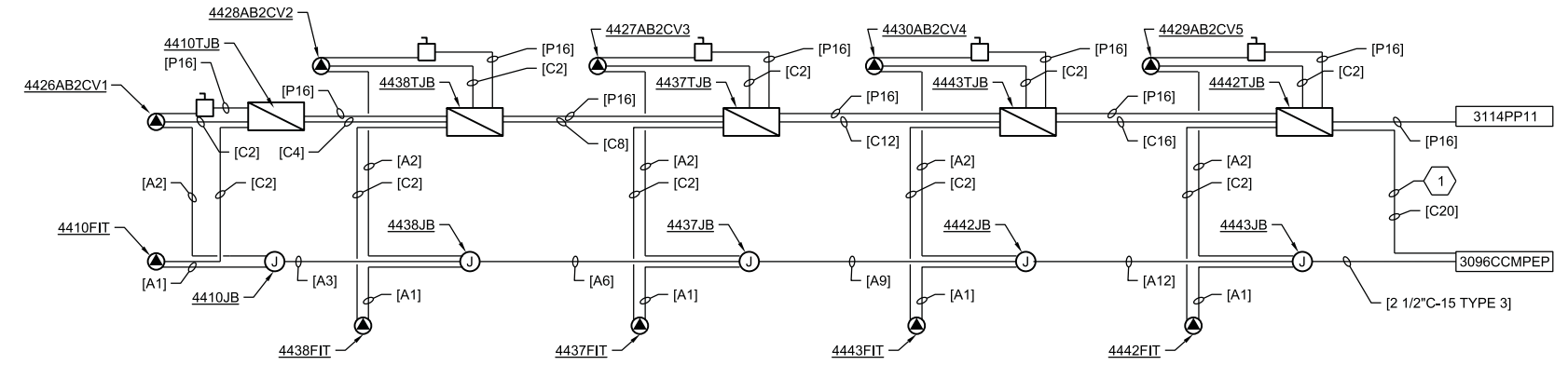
HEAT TRACING

NTS



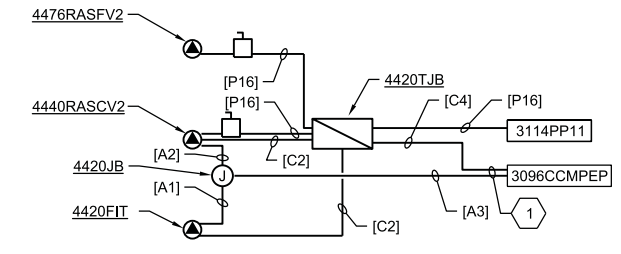
DO ANALYZERS

NTS



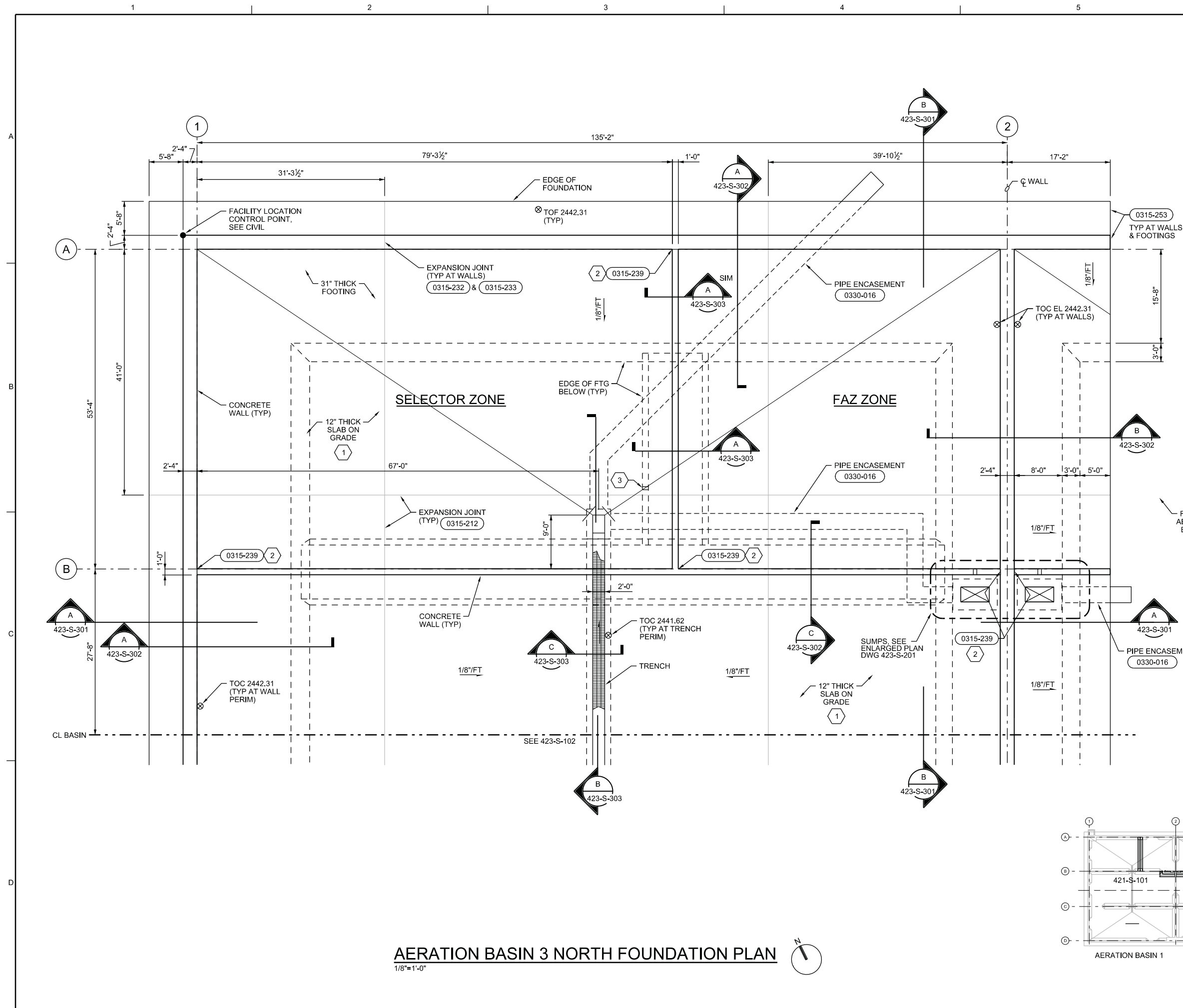
AIR FLOW CONTROL

NTS



RAS FLOW CONTROL

NTS

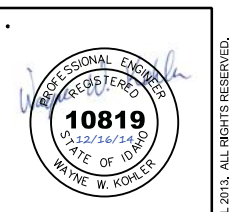


GENERAL SHEET NOTES

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- B. SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION.
- C. WHEN EMPTYING BASIN(S), THE GROUNDWATER SHALL BE DRAWN DOWN BY THE BELOW SLAB UNDERDRAIN SYSTEM. GROUNDWATER ELEVATION SHALL NOT EXCEED BASIN WATER ELEVATION BY MORE THAN 1'-6" AT ANY TIME.
- D. BASINS SHALL NOT BE FILLED OR EMPTIED SLOW ENOUGH THAT THE DIFFERENTIAL WATER ELEVATION ON EITHER SIDE OF INTERIOR WALLS DOES NOT EXCEED 1'-6" AT ANY TIME.

SHEET KEYNOTES

- 1. REINFORCE SLAB ON GRADE WITH #6@12" OC EACH WAY, TOP AND BOTTOM. PROVIDE 2" CLEAR COVER OVER TOP MAT, 3" CLEAR COVER FOR BOTTOM MAT.
- 2. PROVIDE SEALANT AND BACKUP MATERIAL ON BOTH SIDES OF WALL.
- 3. 6"x6" BLOCKOUT THROUGH WALL AT BASE OF WALL. LOCATE BLOCKOUT AT SLAB VALLEY SO WATER WILL DRAIN THROUGH WALL.



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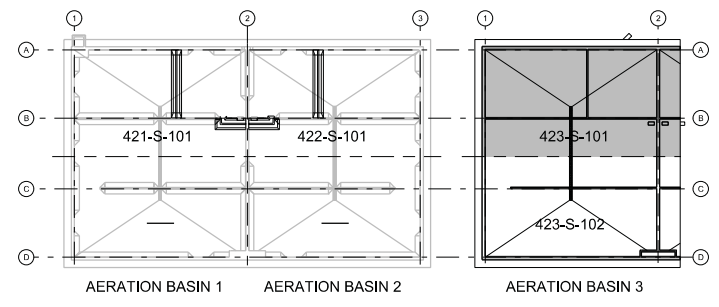
NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL®

STRUCTURAL
**AERATION BASIN 3 NORTH
FOUNDATION PLAN**

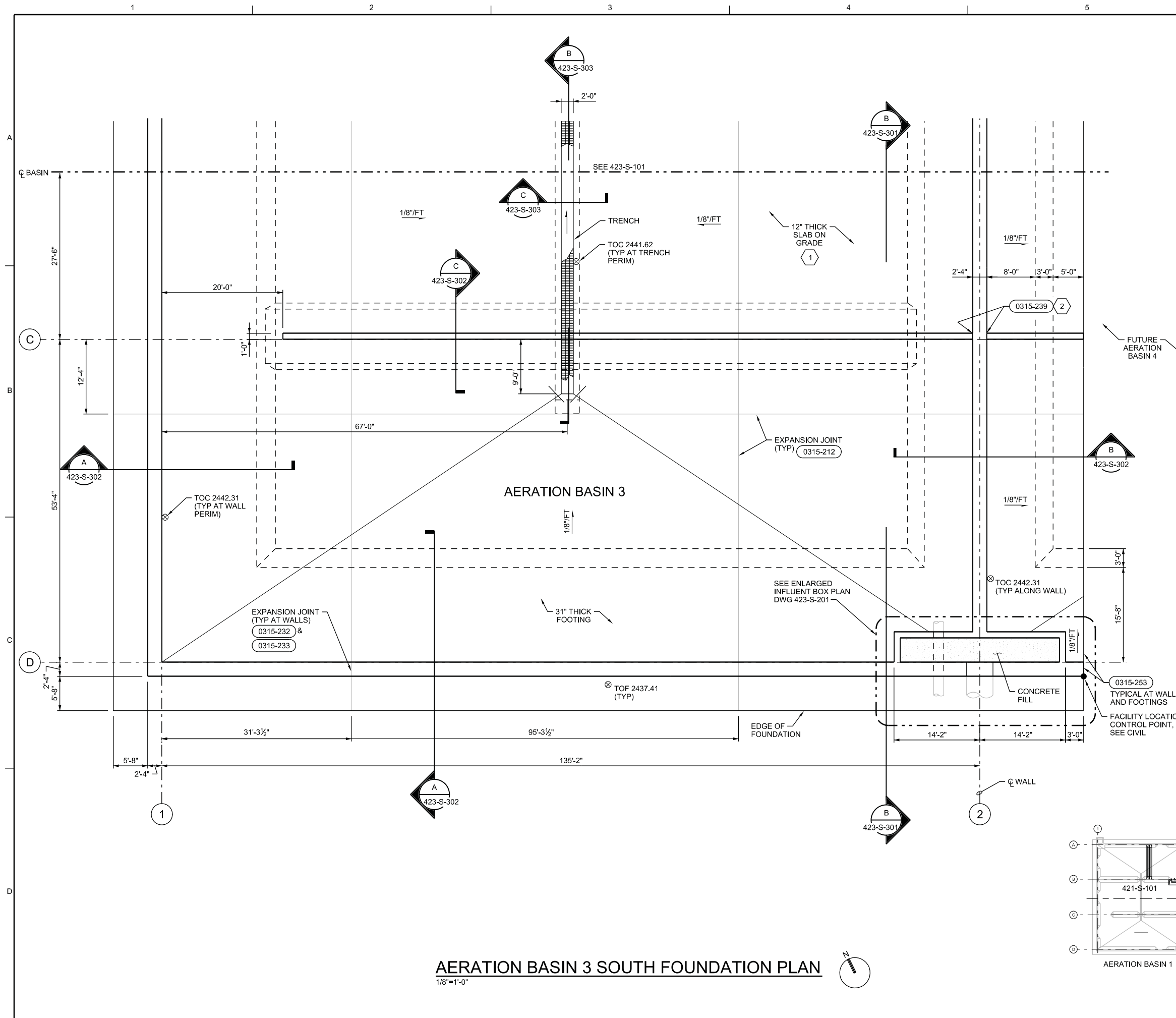
AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" = 1"

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PROJ	480770
DWG	423-S-101
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KEY PLAN
NTS

AERATION BASIN 3 NORTH FOUNDATION PLAN
1/8"=1'-0"



- A. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE DRAWINGS 010-G-013, 010-G-014, AND 010-G-015.
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SHEET KEYNOTES

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- 2. PROVIDE SEALANT AND BACKUP MATERIAL ON BOTH SIDES OF WALL.



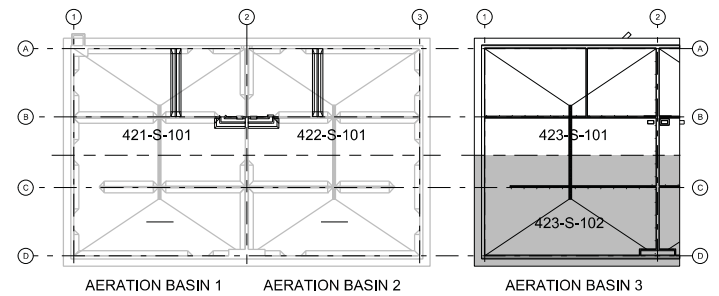
NO.	DATE	DR	CHK	BY
		W KOHLER	L HENDERSHOTT	G THOMPSON
			B HERMAN	

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL

STRUCTURAL
AERATION BASIN 3 SOUTH FOUNDATION PLAN

AS NOTED
VERIFY SCALE
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DATE: DECEMBER 2014
PROJ: 480770
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KEY PLAN
NTS

AERATION BASIN 3 SOUTH FOUNDATION PLAN
1/8"=1'-0"



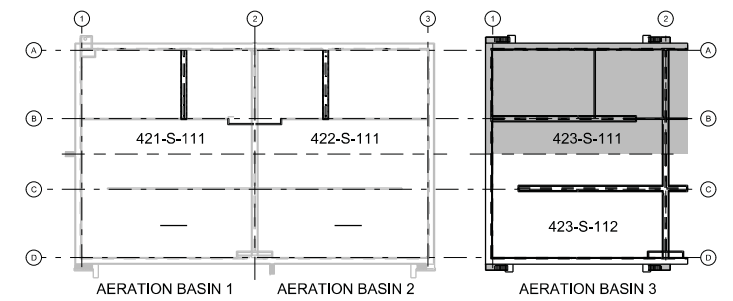
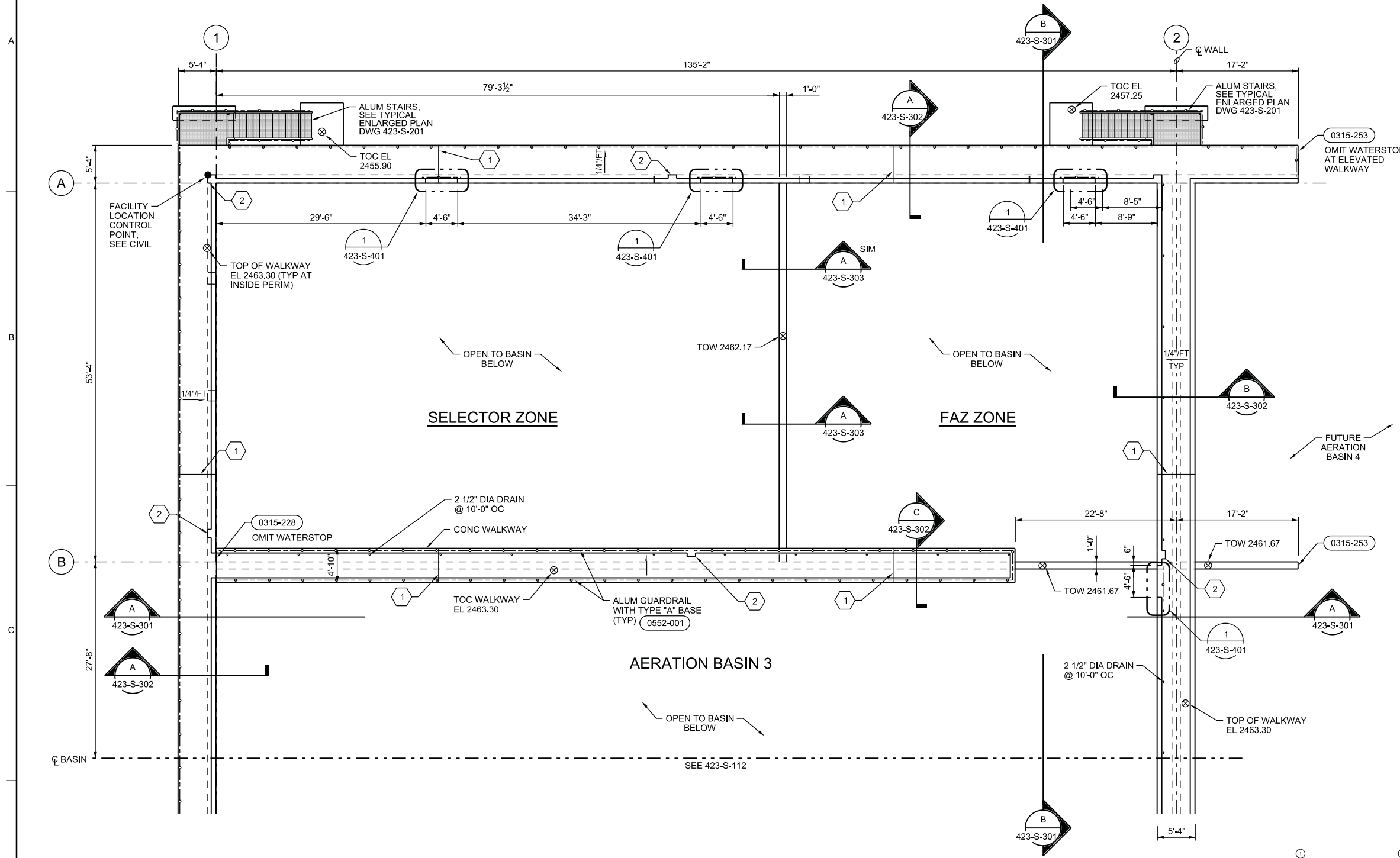
GENERAL SHEET NOTES

- A. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE DRAWINGS 010-G-013, 010-G-014, AND 010-G-015.
- B. SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION.



SHEET KEYNOTES

- 1. EXPANSION JOINT AT ELEVATED WALKWAY ONLY, OMIT WATERSTOP. FOR LOCATIONS SEE FOUNDATION PLAN. PROVIDE EXPANSION JOINT IN GUARDRAIL AT EXPANSION JOINT LOCATIONS. SEE (0315-216)
- 2. LIGHT POST PILASTER. COORDINATE LOCATION WITH ELECTRICAL. SEE DETAIL 2 ON DWG 421-S-301.



AERATION BASIN 3 NORTH UPPER LEVEL PLAN
1/8"=1'-0"



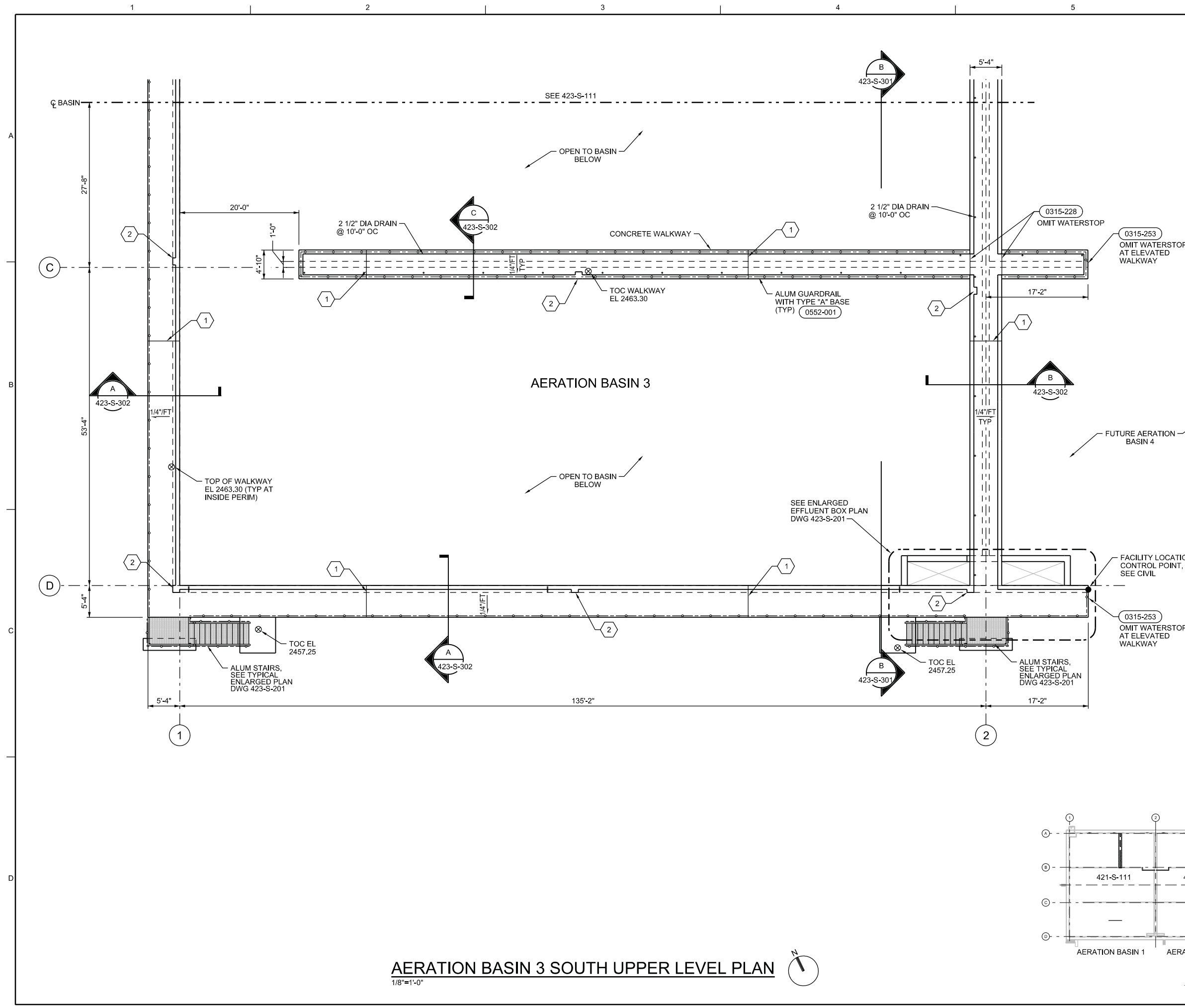
KEY PLAN
NTS

NO.	DATE	DR	CHK	REVISION	BY	APVD

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
STRUCTURAL
**AERATION BASIN 3 NORTH
UPPER LEVEL PLAN**

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE: DECEMBER 2014
PROJ: 480770
DWG: 423-S-111
SHEET: 137 of 157



GENERAL SHEET NOTES

- A. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE DRAWINGS 010-G-013, 010-G-014, AND 010-G-015.
- B. SEE STANDARD DETAILS FOR ADDITIONAL INFORMATION.

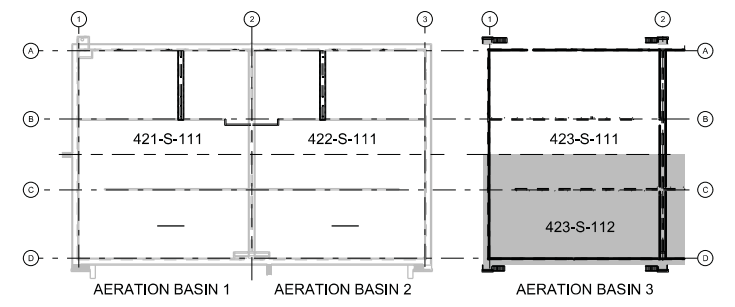


SHEET KEYNOTES

1. EXPANSION JOINT. OMIT WATERSTOP AT ELEVATED WALKWAY ONLY. FOR LOCATIONS SEE FOUNDATION PLAN. PROVIDE EXPANSION JOINT IN GUARDRAIL AT EXPANSION JOINT LOCATIONS. SEE 0315-216
2. LIGHT POST PILASTER. COORDINATE LOCATION WITH ELECTRICAL. SEE DETAIL 2 ON DWG 421-S-301. EXTEND GUARDRAIL TO WITHIN 4" OF LIGHT POLE (WHERE OCCURS).

NO.	DATE	DR	CHK	BY
		W KOHLER	L HENDERSHOTT	G THOMPSON
			B HERMAN	

AERATION BASIN 3 SOUTH UPPER LEVEL PLAN
1/8"=1'-0"



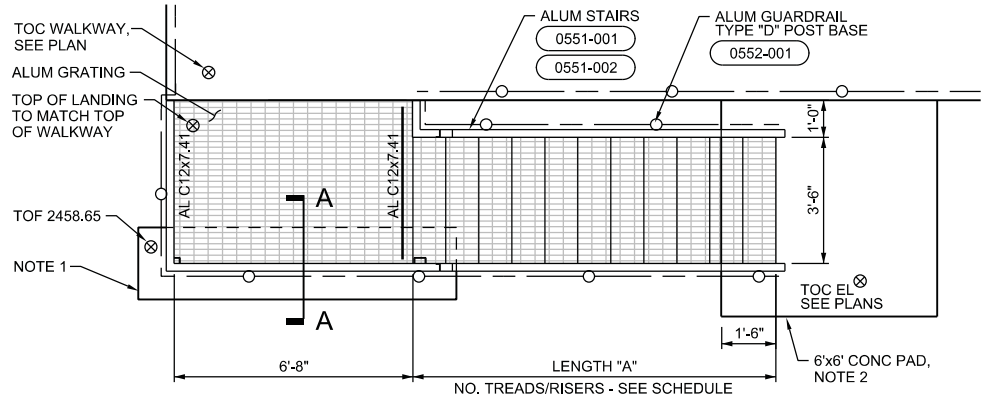
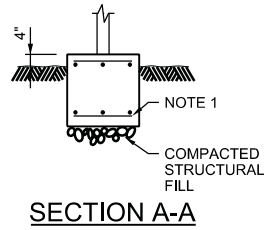
KEY PLAN
NTS

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
STRUCTURAL
AERATION BASIN 3 SOUTH UPPER LEVEL PLAN

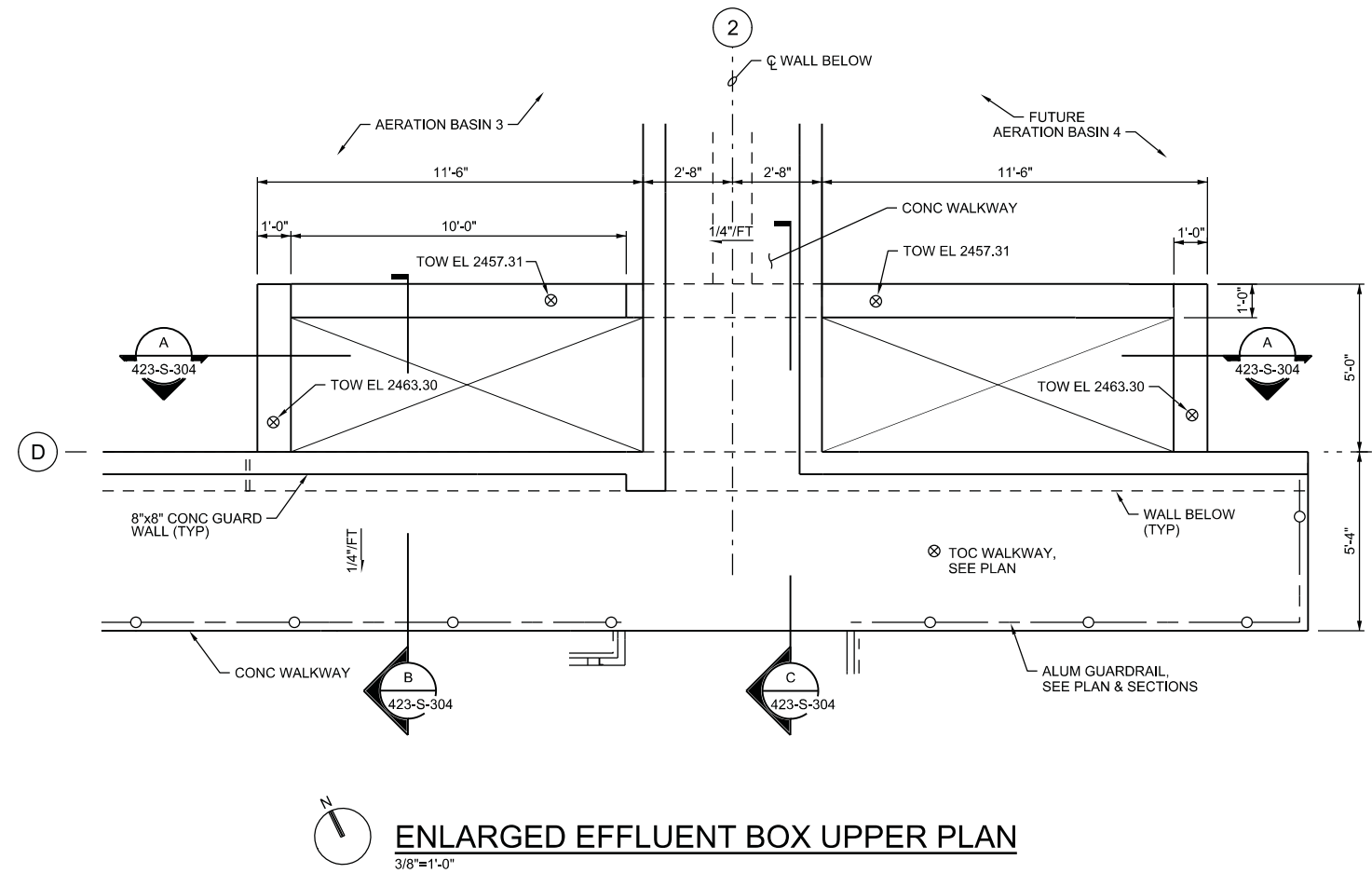
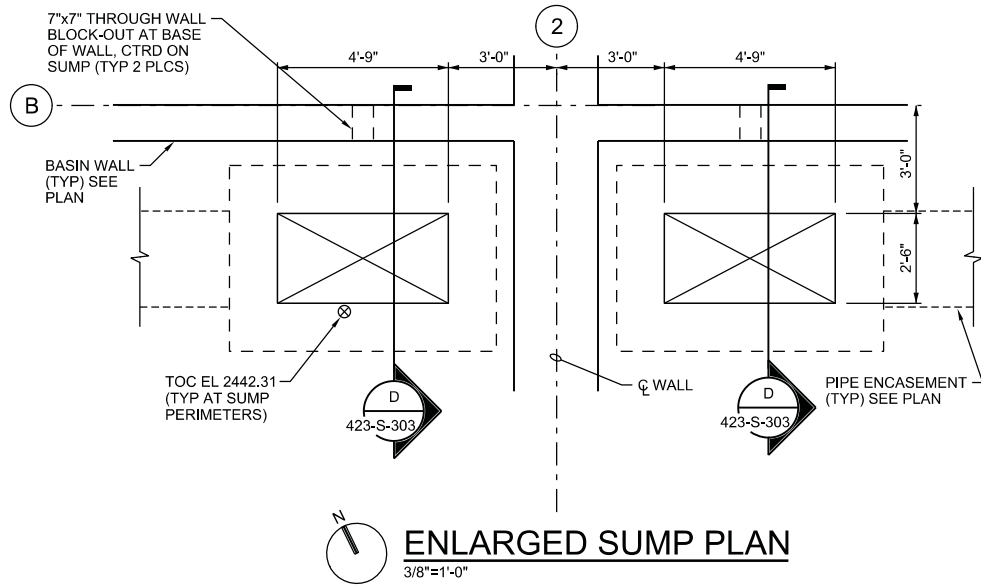
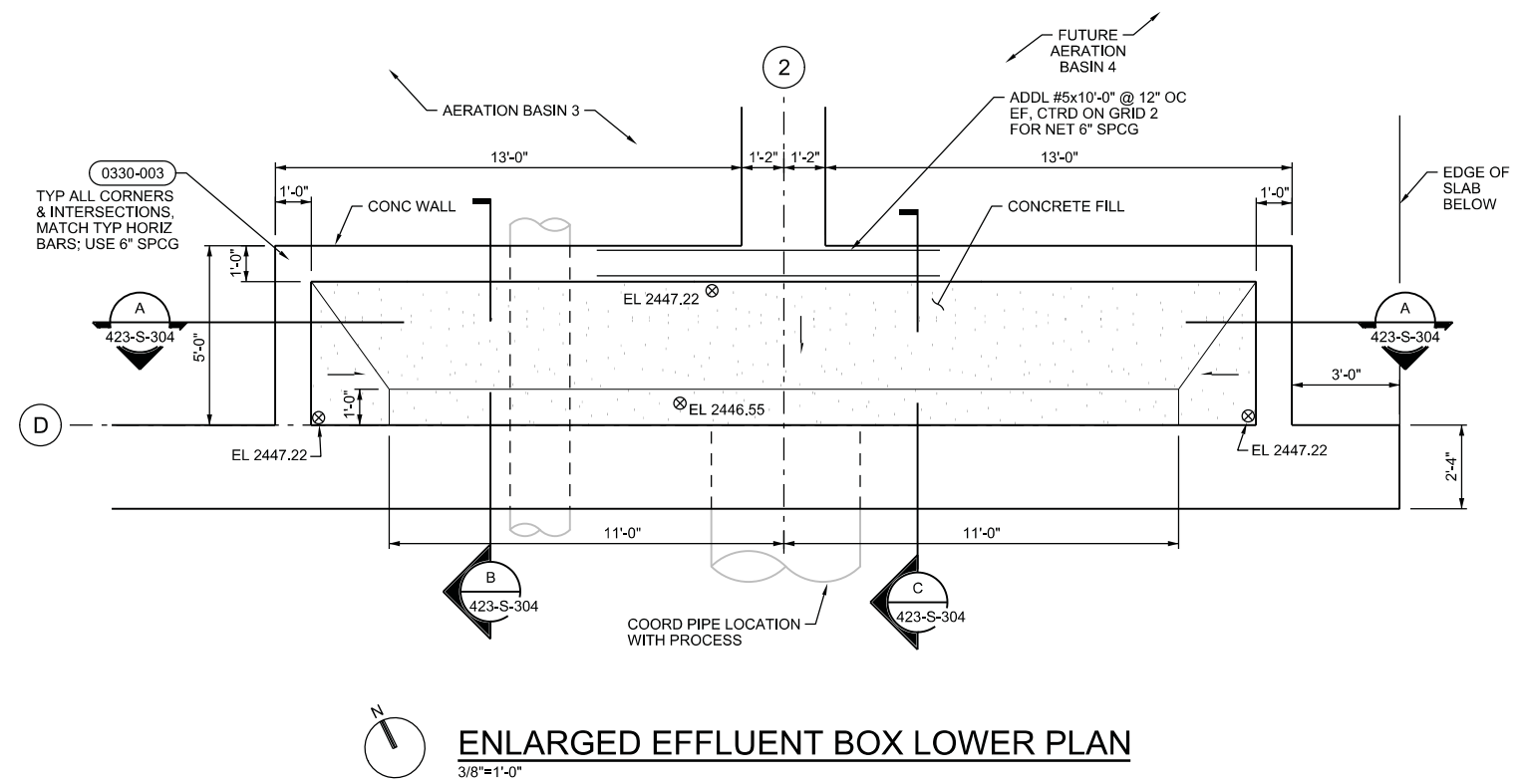
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DATE DECEMBER 2014
PROJ 480770
DWG 423-S-112
SHEET 138 of 157

STAIR SCHEDULE		
GRID LOCATION	NO. OF 11" TREADS	LENGTH "A"
A/1	13	12'-0"
A/2	11	10'-2"
D/1	11	10'-2"
D/2	11	10'-2"



NOTES:

- 2'-0"x9'-0"x2'-0" THICK CONCRETE FOOTING CENTERED ON LANDING SUPPORT POSTS. REINFORCE WITH #5@12" OC, EACH WAY, TOP AND BOTTOM.
- 8" THICK CONCRETE LANDING, REINFORCE WITH #5@12" OC, 2" CLEAR FROM TOP.



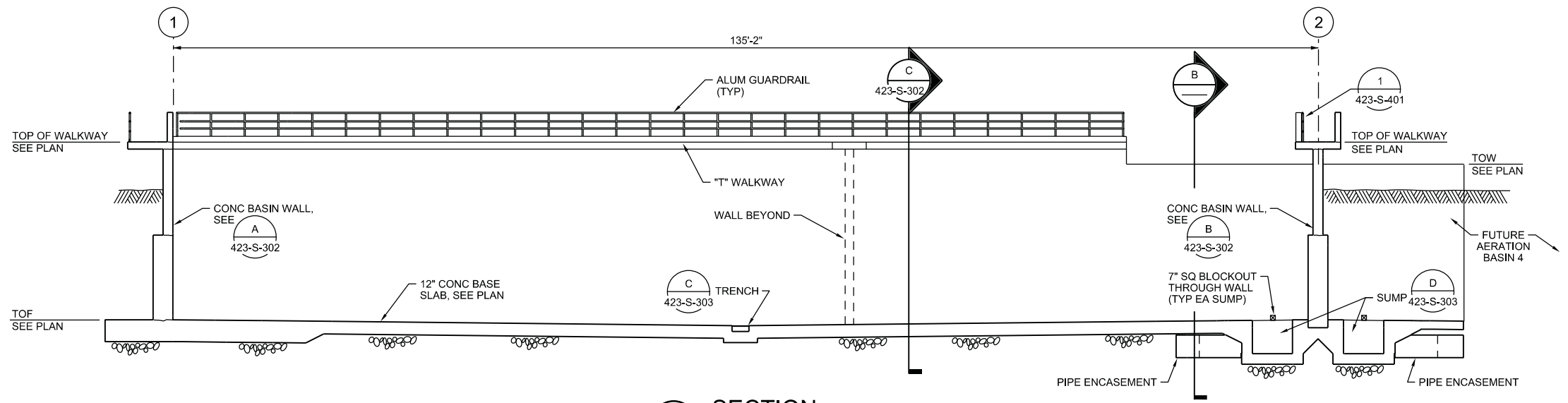
NO.	DATE	DR	CHK	BY	APVD
		W KOHLER	L HENDERSHOTT	B HERMAN	G THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

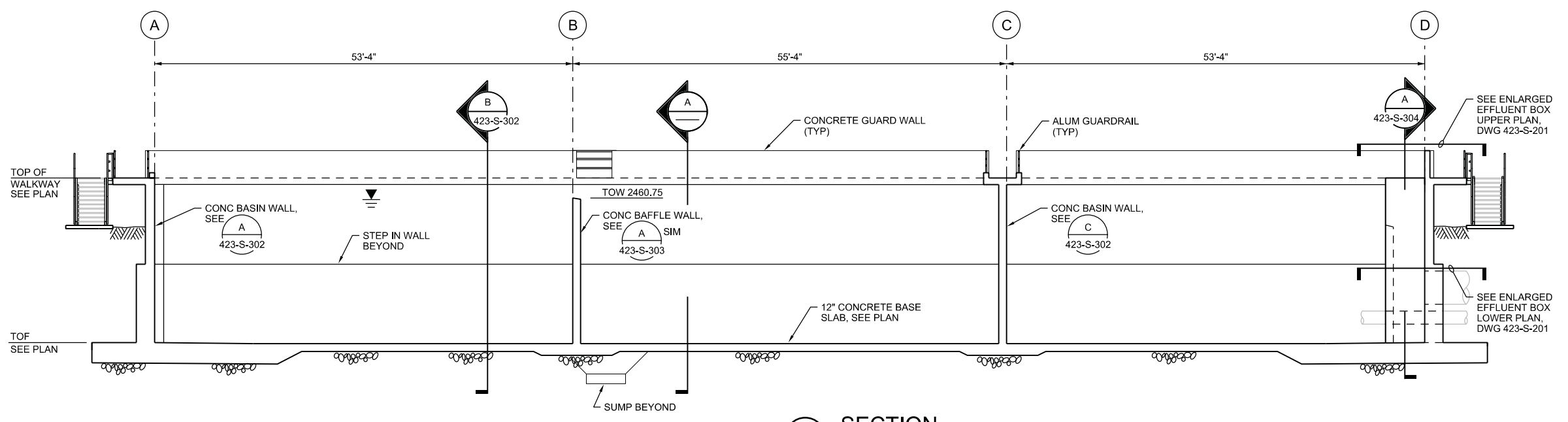
CH2MHILL
STRUCTURAL
AERATION BASIN 3
ENLARGED PLANS

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DATE: DECEMBER 2014
PROJ: 480770
DWG: 423-S-201
SHEET: 139 of 157

1 2 3 4 5 6



A SECTION
 1/8"=1'-0"
 423-S-101
 423-S-111



B SECTION
 1/8"=1'-0"
 423-S-101
 423-S-102
 423-S-111
 423-S-112



NO.	DATE	DGN	DR	CHK	REVISION	BY	APVD
			W KOHLER	L HENDERSHOTT		B HERMAN	G THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

CH2MHILL
 STRUCTURAL
**AERATION BASIN 3
 OVERALL SECTIONS**

AS NOTED	
VERIFY SCALE	
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DATE	DECEMBER 2014
PROJ	480770
DWG	423-S-301
SHEET	140 of 157

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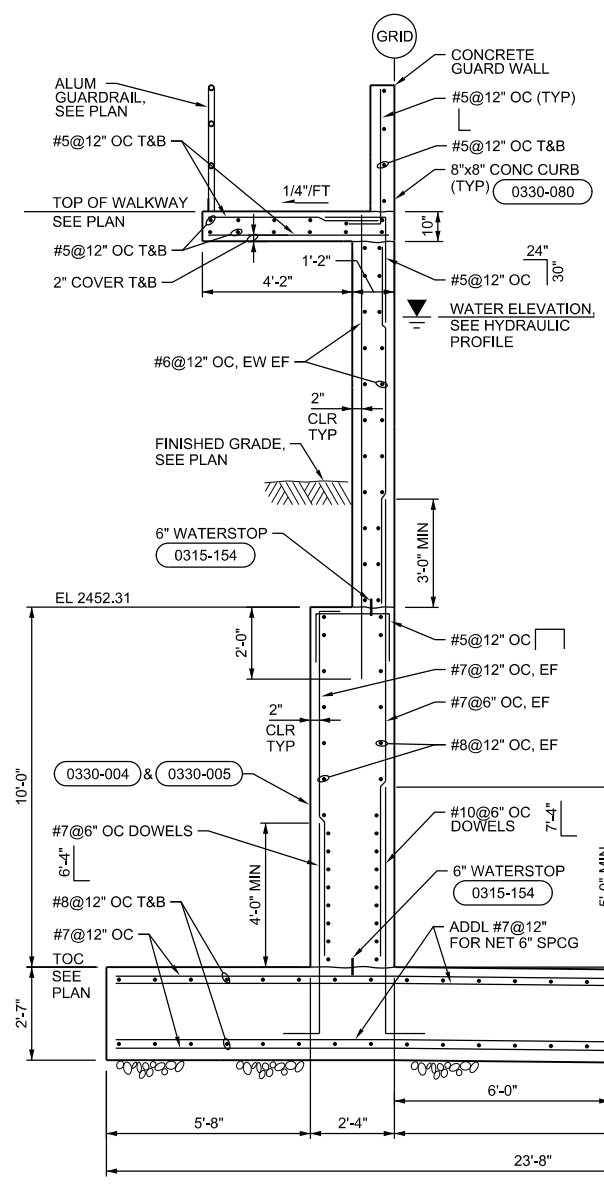
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			W KOHLER	L HENDERSHOTT		B HERMAN	G THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

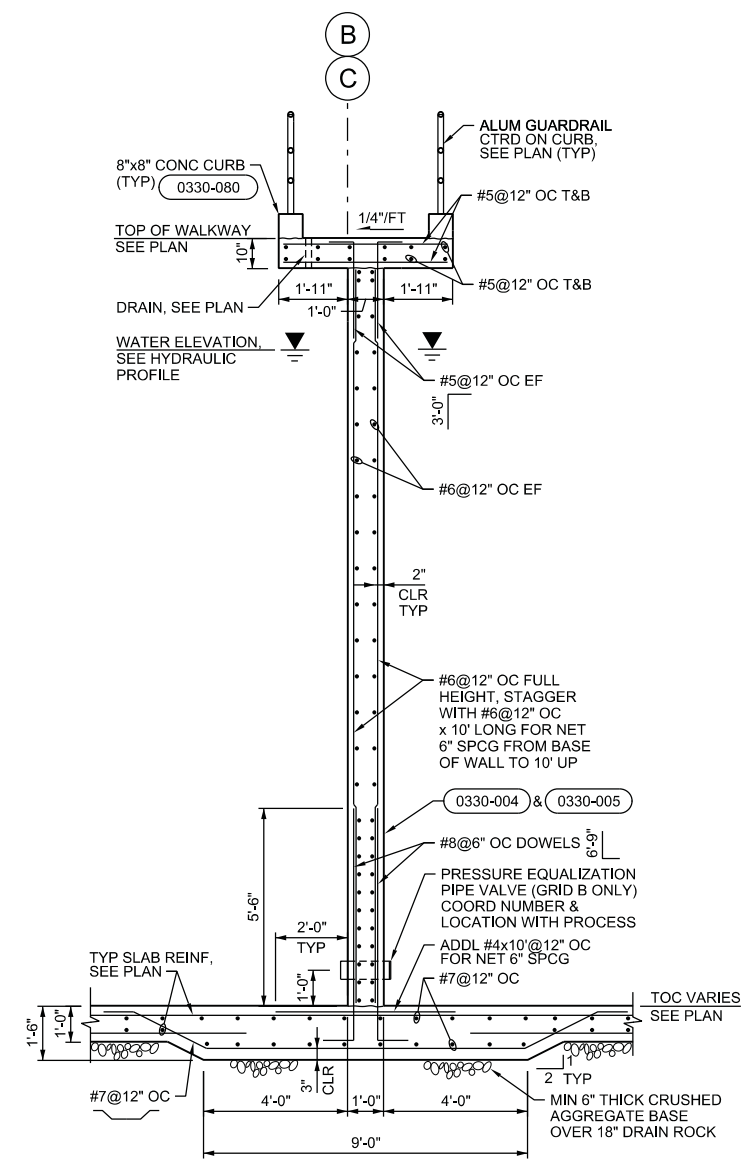
STRUCTURAL
AERATION BASIN 3
SECTIONS

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE: DECEMBER 2014
PROJ: 480770
DWG: 423-S-302
SHEET: 141 of 157

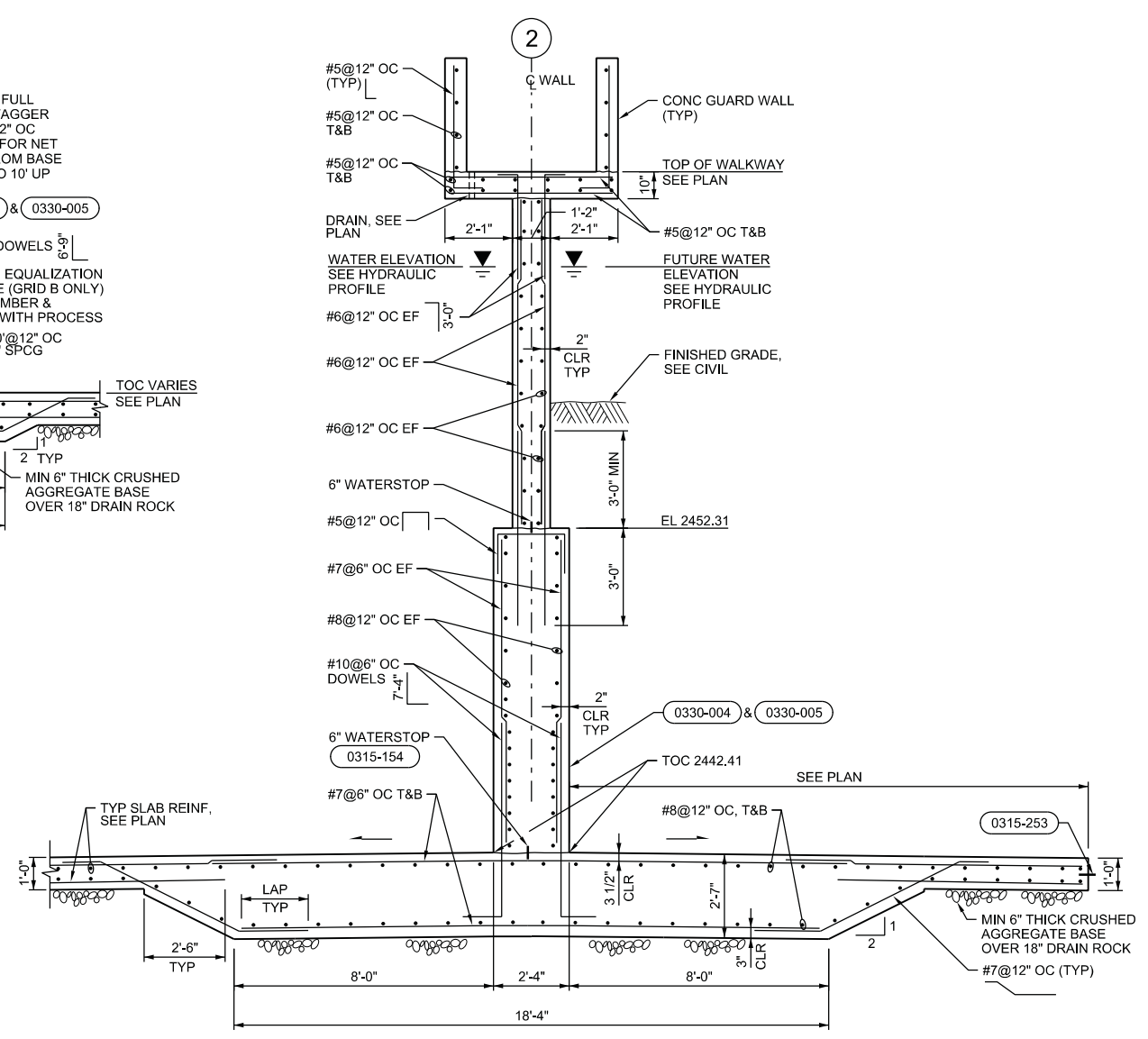
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A SECTION
3/8"=1'-0"
423-S-101, 423-S-102
423-S-111, 423-S-112
423-S-301

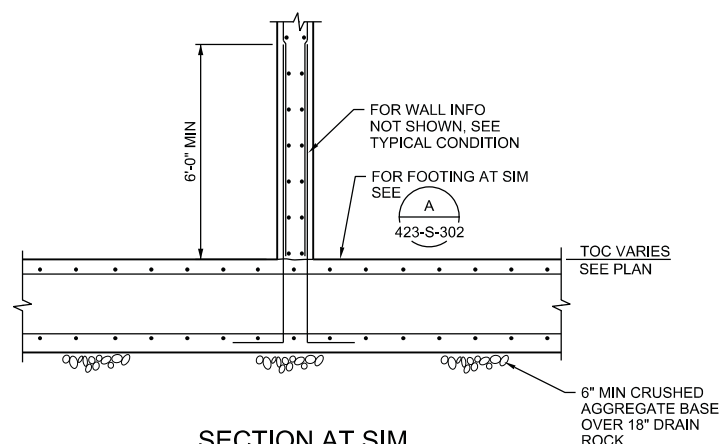


C SECTION
3/8"=1'-0"
423-S-101, 423-S-102
423-S-111, 423-S-112
423-S-301

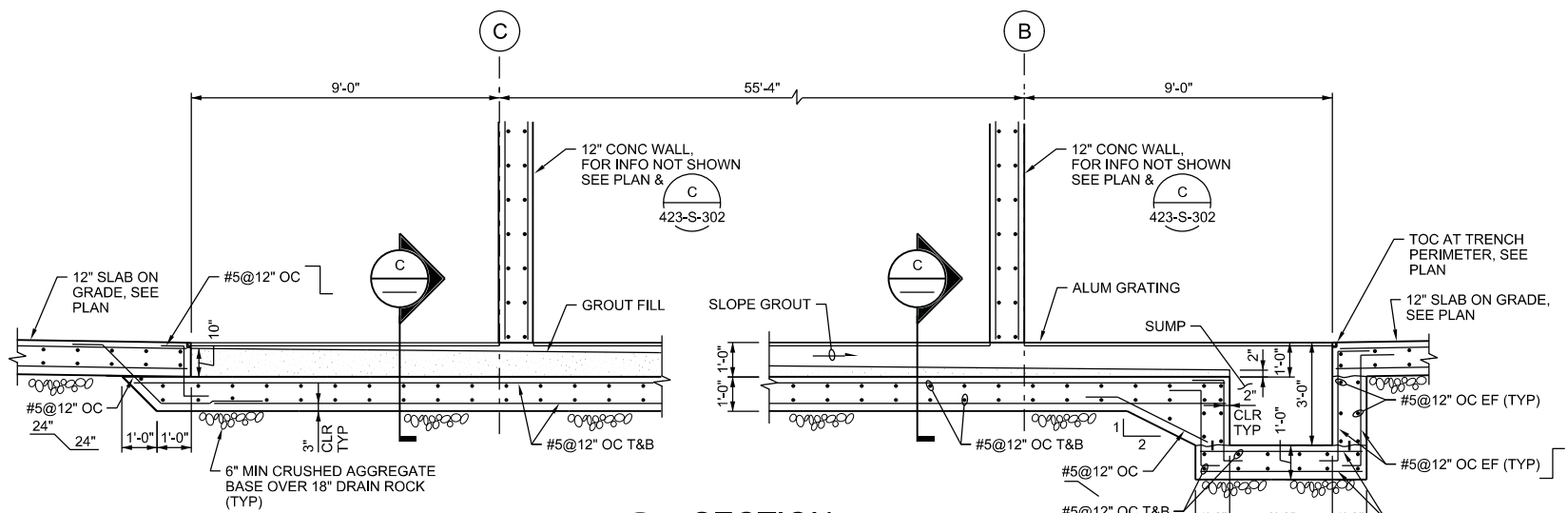


B SECTION
3/8"=1'-0"
423-S-101, 423-S-102
423-S-111, 423-S-112
423-S-301

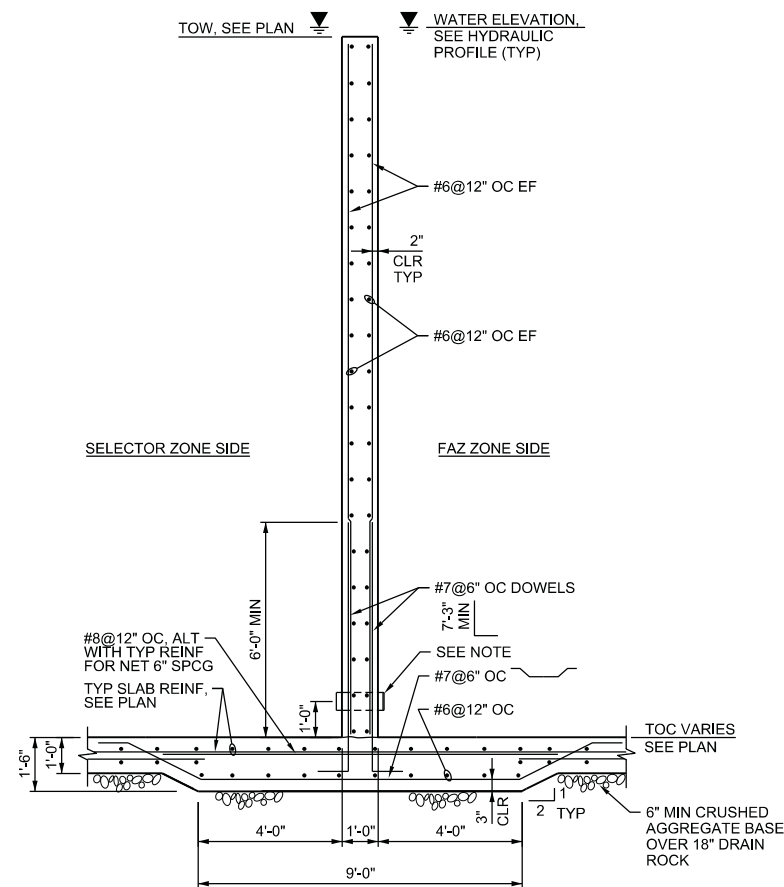




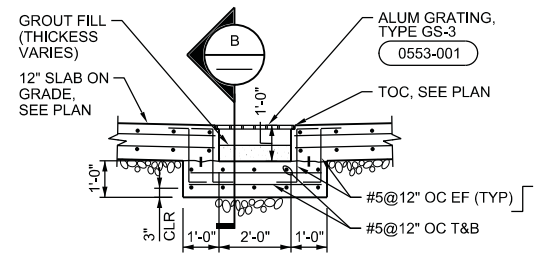
SECTION AT SIM



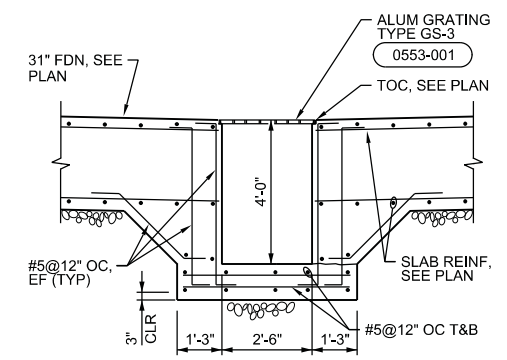
SECTION B 3/8"=1'-0" 423-S-101 423-S-111



TYPICAL SECTION A SECTION 3/8"=1'-0" 423-S-101 423-S-111



SECTION C 3/8"=1'-0" 423-S-101 423-S-111



SECTION D 3/8"=1'-0" 423-S-201

NOTE: PRESSURE EQUALIZATION PIPE, VALVE ON FAZ SIDE. COORDINATE NUMBER AND LOCATION WITH PROCESS.

NOTE: TREAT SUMP LIKE AN OPENING IN PLAN, SEE 0330-001

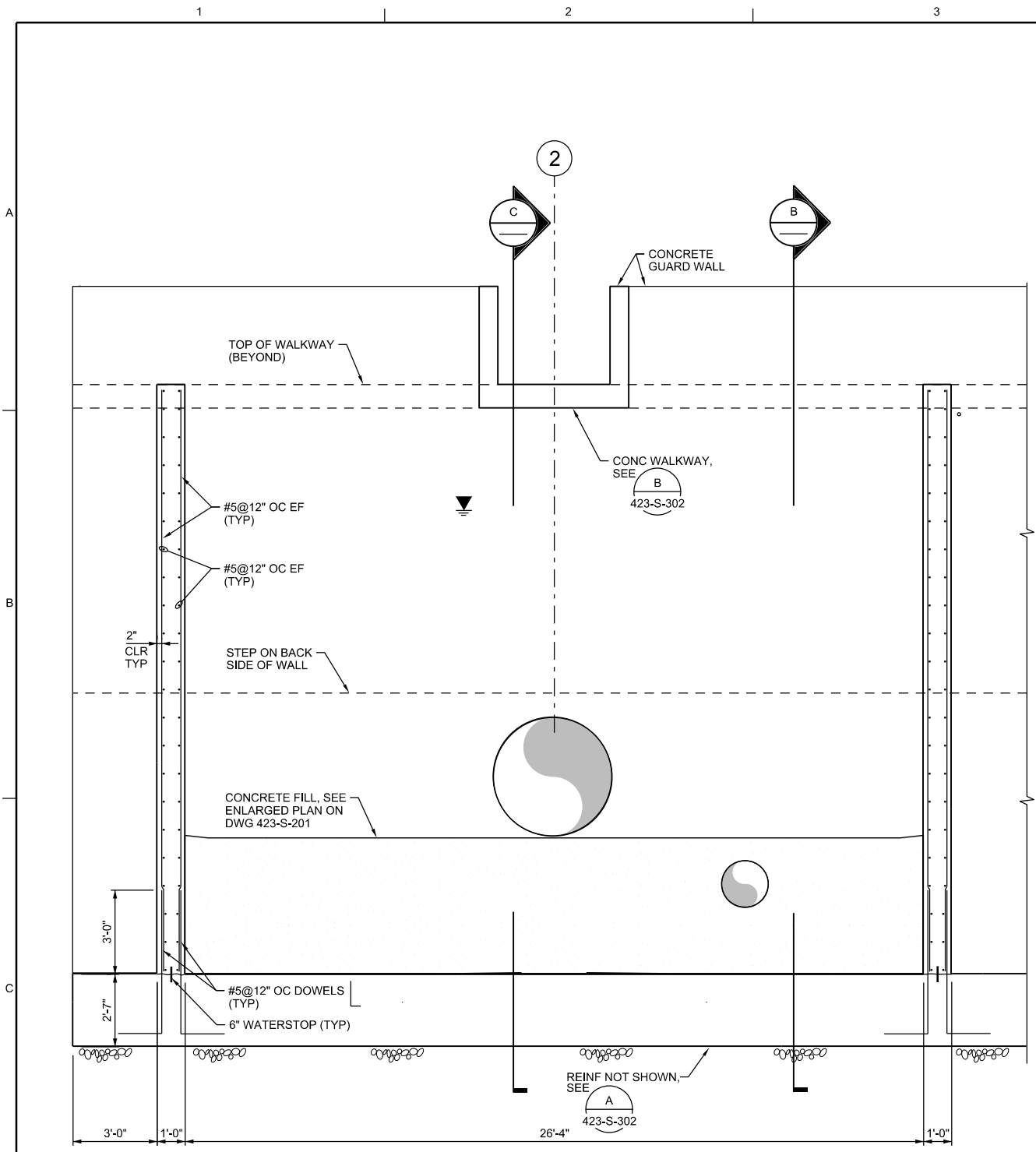


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			W KOHLER	L HENDERSHOTT		B HERMAN	G THOMPSON

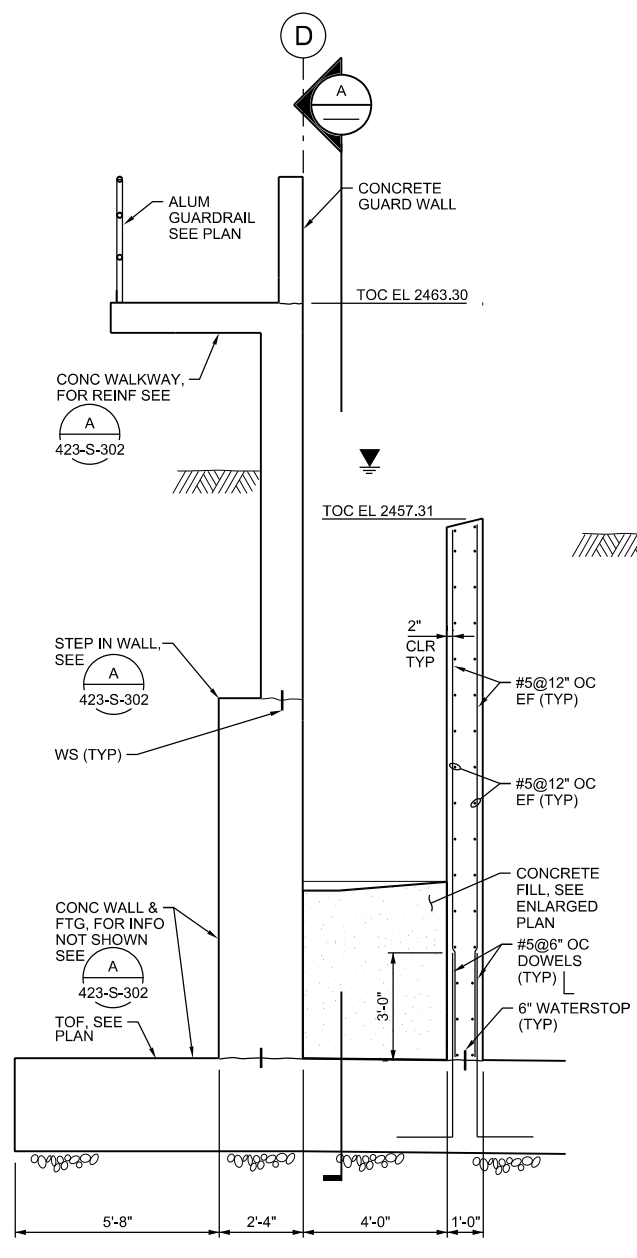
NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
STRUCTURAL
**AERATION BASIN 3
SECTIONS**

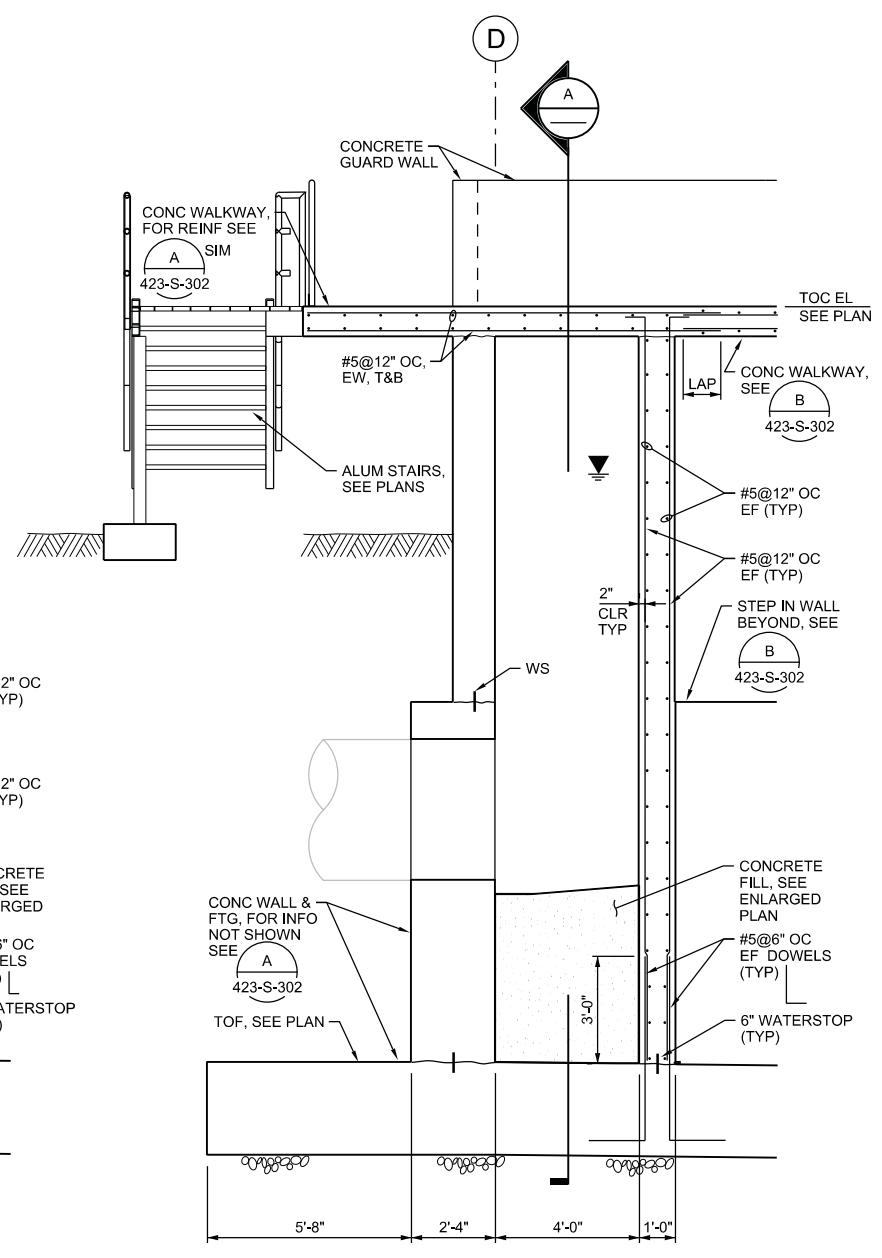
AS NOTED	
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DATE	DECEMBER 2014
PROJ	480770
DWG	423-S-303
SHEET	142 of 157



A SECTION
3/8"=1'-0"
423-S-201



B SECTION
3/8"=1'-0"
423-S-201



C SECTION
3/8"=1'-0"
423-S-201

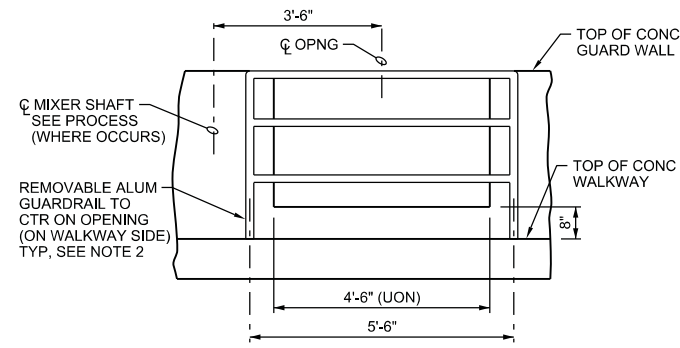


NO.	DATE	DR	CHK	REVISION	BY	APVD
		W KOHLER	L HENDERSHOTT		B HERMAN	G THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

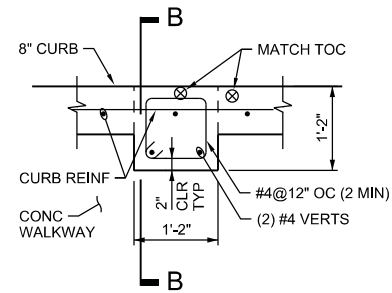
CH2MHILL
STRUCTURAL
AERATION BASIN 3 SECTIONS

AS NOTED	
VERIFY SCALE	
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DATE	DECEMBER 2014
PROJ	480770
DWG	423-S-304
SHEET	143 of 157

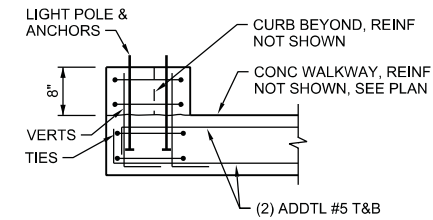


ELEVATION
LOOKING SOUTH

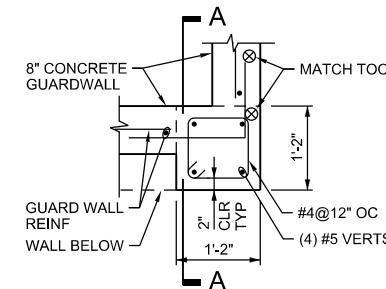
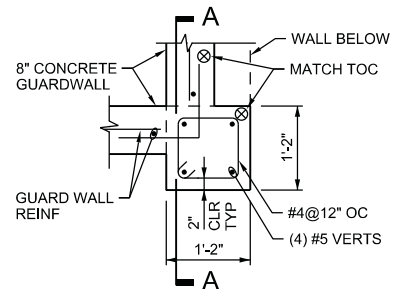
1 **DETAIL**
3/4"=1'-0"
423-S-111



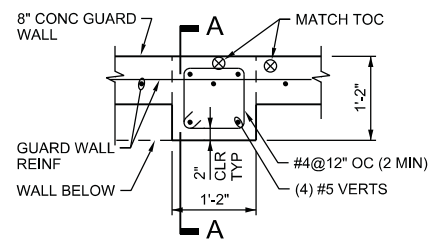
PILASTER AT CURB PLAN



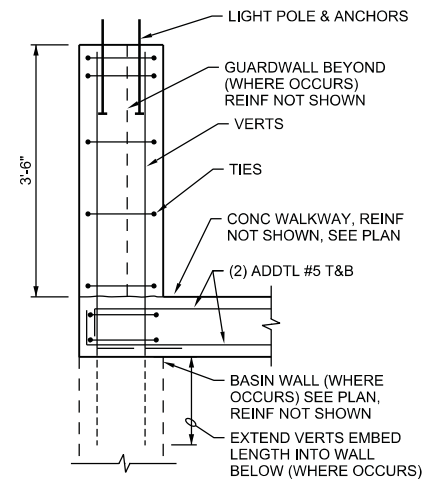
SECTION B-B



CORNER PILASTER PLANS



TYPICAL PILASTER PLAN



SECTION A-A

NOTES:

- COORDINATE REINF WITH LIGHT BASE BOLT PATTERN, SEE ELECTRICAL.
- COORDINATE EXACT PILASTER LOCATIONS WITH ELECTRICAL.

2 **LIGHT POST PILASTER**
3/4"=1'-0"

423-S-111
423-S-112



NO.	DATE	DR	REVISION	BY
		W KOHLER	CHK	G THOMPSON
		L HENDERSHOTT	APVD	B HERMAN
			APVD	

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
STRUCTURAL
AERATION BASIN 3
DETAILS

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DWG 423-S-401
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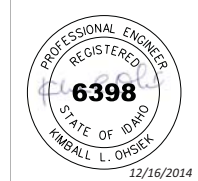
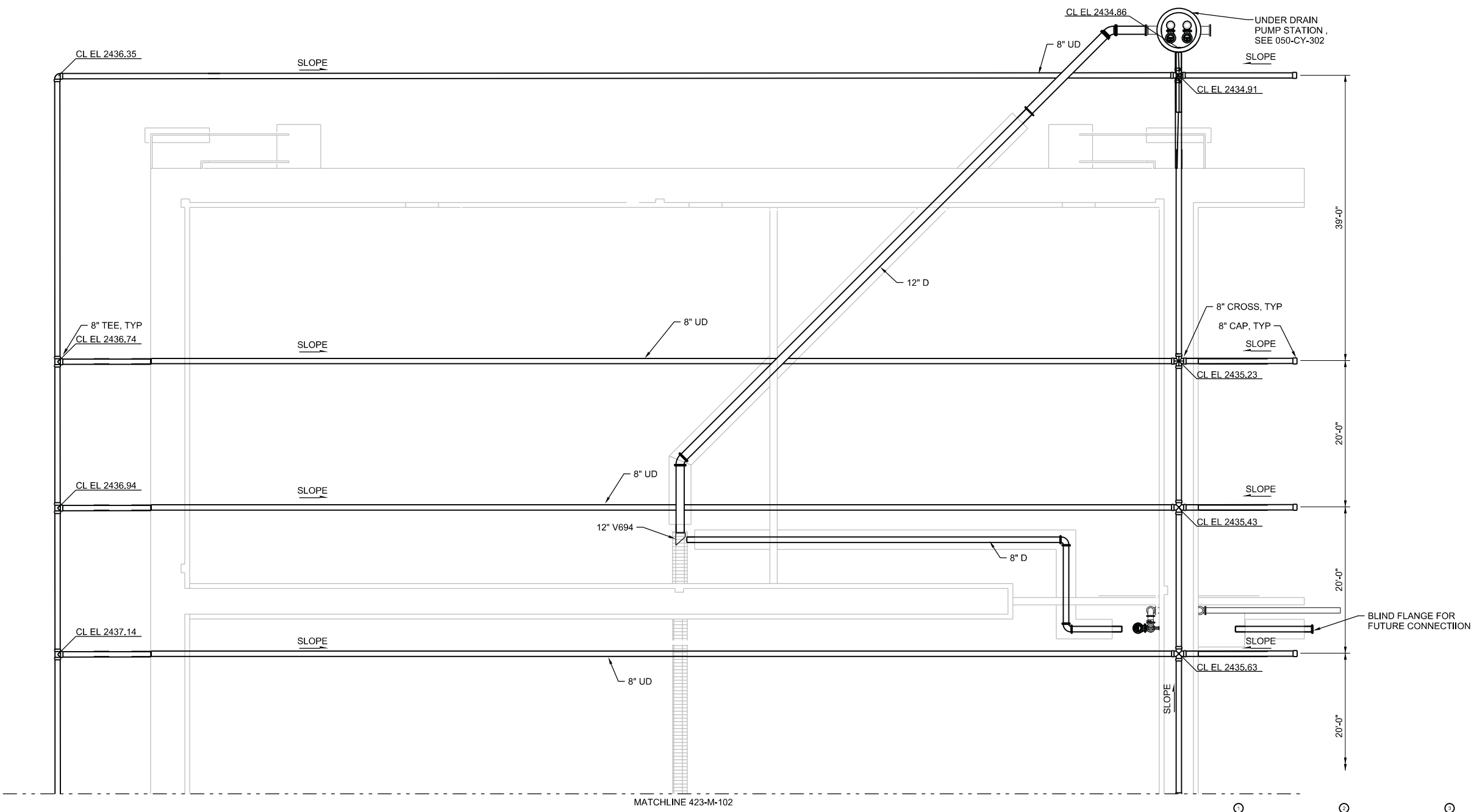
1 2 3 4 5 6

A

B

C

D



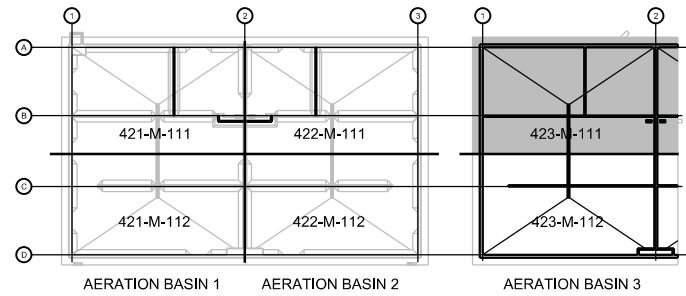
NO.	DATE	DGN	DR	CHK	APVD	BY	APVD
							G THOMPSON
							L FEITKETHER
							J PIGMAN

NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

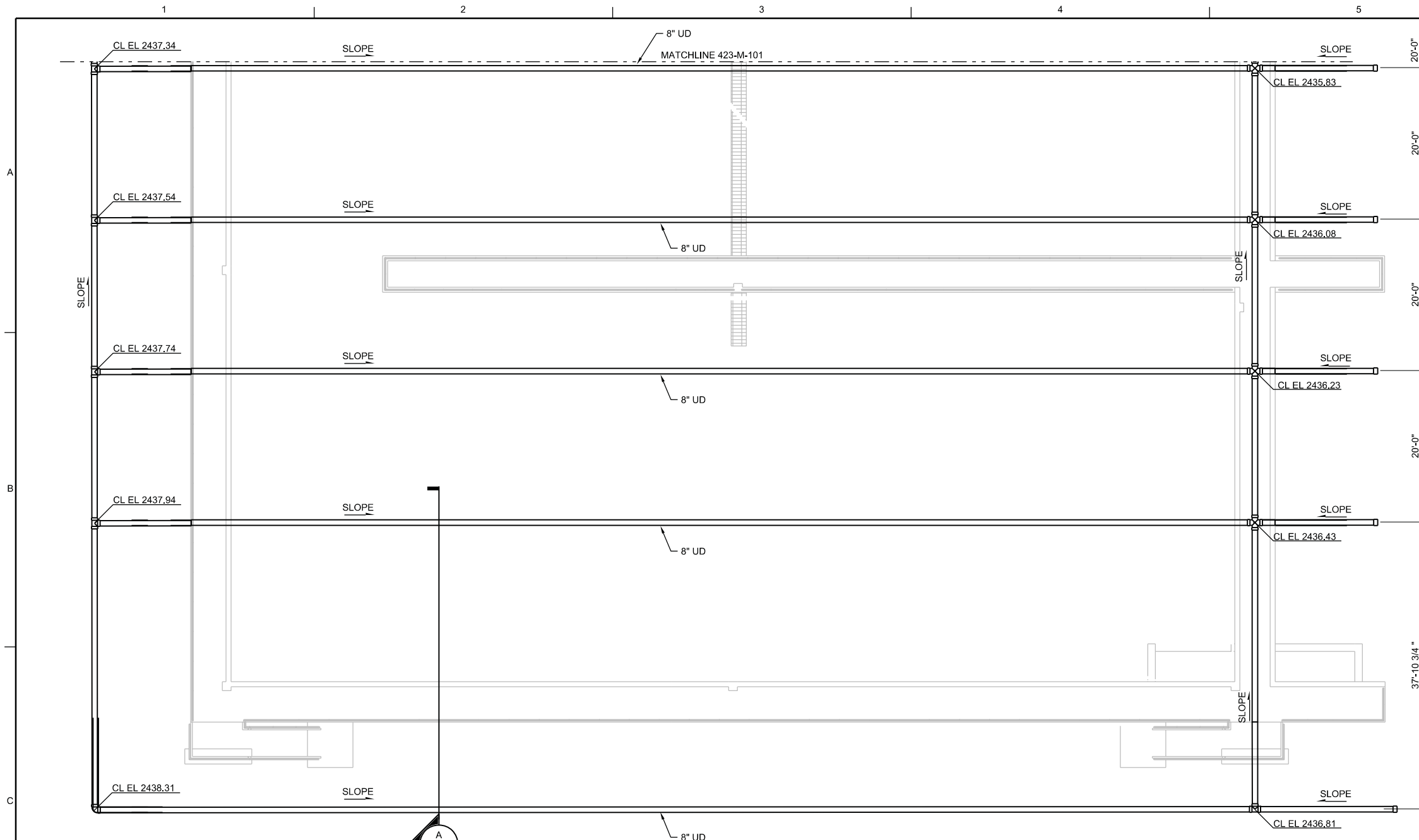
CH2MHILL
 PROCESS MECHANICAL
**AERATION BASIN 3 NORTH
 UNDER DRAIN SYSTEM
 PLAN**

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE DECEMBER 2014
PROJ 480770
DWG 423-M-101
SHEET 145 of 157

AERATION BASIN 3 NORTH UNDER DRAIN PLAN
 1/8"=1'-0"



KEY PLAN
 NTS

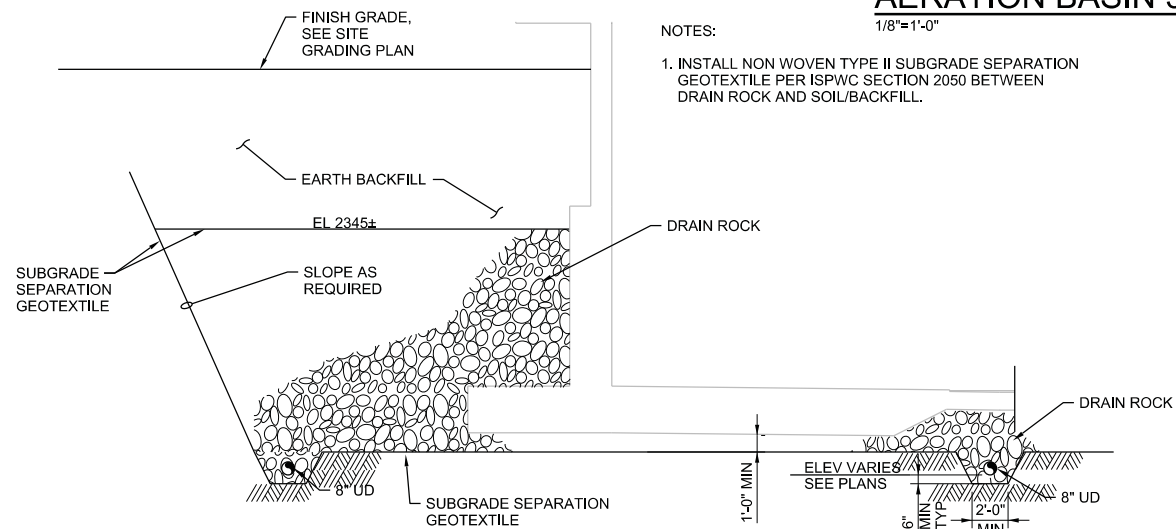


AERATION BASIN 3 SOUTH UNDER DRAIN PLAN

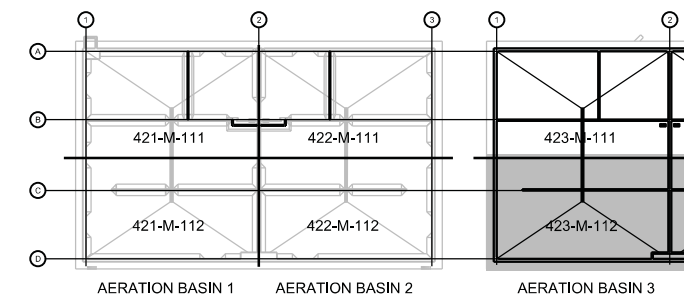
1/8"=1'-0"

NOTES:

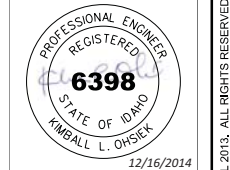
- 1. INSTALL NON WOVEN TYPE II SUBGRADE SEPARATION GEOTEXTILE PER ISPOC SECTION 2050 BETWEEN DRAIN ROCK AND SOIL/BACKFILL.



A SECTION
3/16"=1'-0"



KEY PLAN
NTS



NO.	DATE	REVISION	CHK	DR	BY
			K OHSIEK	J PIGMAN	G THOMPSON
				L FEITKETHER	

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
PROCESS MECHANICAL
**AERATION BASIN 3 SOUTH
UNDER DRAIN SYSTEM
PLAN**

AS NOTED
VERIFY SCALE

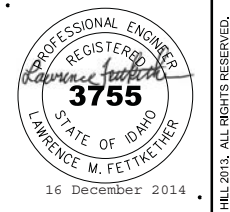
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

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PROJ	480770
DWG	423-M-102
SHEET	146 of 157

BID DOCUMENTS

GENERAL SHEET NOTES

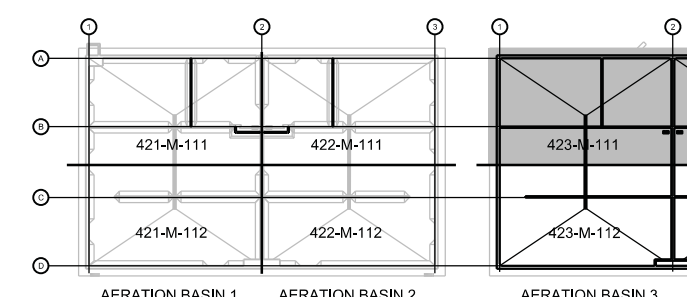
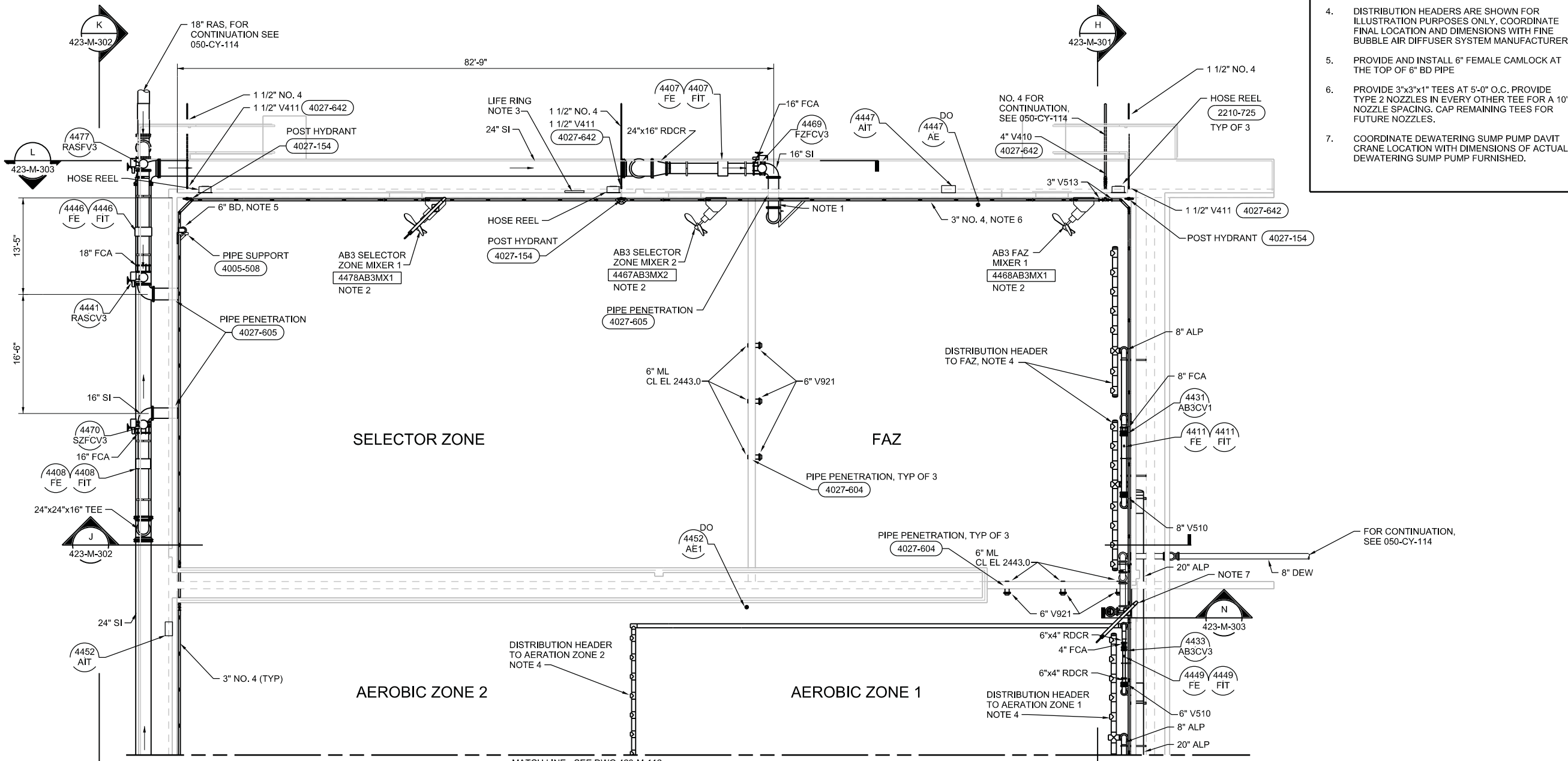
- NOTES:
- DRILL A 1" HOLE AT THE TOP OF THE PIPE.
 - COORDINATE MIXER LOCATION WITH MIXER'S MANUFACTURER. FOR AERATION BASIN MIXER INSTALLATION, SEE TYP OF 3.
421-M-401
 - PROVIDE AND INSTALL WALL MOUNTED 33"x33"x5.5" FIBERGLASS LIFE RING CABINET, SAFETY YELLOW, NON-LOCKING T-HANDLE WITH 30" LIFE RING AND 90' ROPE WITH FLOAT AS MANUFACTURED BY CHEYENE MANUFACTURING INC.
 - DISTRIBUTION HEADERS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. COORDINATE FINAL LOCATION AND DIMENSIONS WITH FINE BUBBLE AIR DIFFUSER SYSTEM MANUFACTURER.
 - PROVIDE AND INSTALL 6" FEMALE CAMLOCK AT THE TOP OF 6" BD PIPE
 - PROVIDE 3"x3"x1" TEES AT 5'-0" O.C. PROVIDE TYPE 2 NOZZLES IN EVERY OTHER TEE FOR A 10'-0" NOZZLE SPACING. CAP REMAINING TEES FOR FUTURE NOZZLES.
 - COORDINATE DEWATERING SUMP PUMP DAVIT CRANE LOCATION WITH DIMENSIONS OF ACTUAL DEWATERING SUMP PUMP FURNISHED.



NO.	DATE	DR	CHK	REVISION	BY	APVD
		A. ARANGO	J. PIGMAN		L. FETTKETHER	G. THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL PROCESS MECHANICAL	
AERATION BASIN 3 NORTH PLAN	
AS NOTED	VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	DECEMBER 2014
PROJ	480770
DWG	423-M-111
SHEET	147 of 157



AERATION BASIN 3 NORTH PLAN
1/8"=1'-0"

KEY PLAN
NTS

GENERAL SHEET NOTES

NOTES:

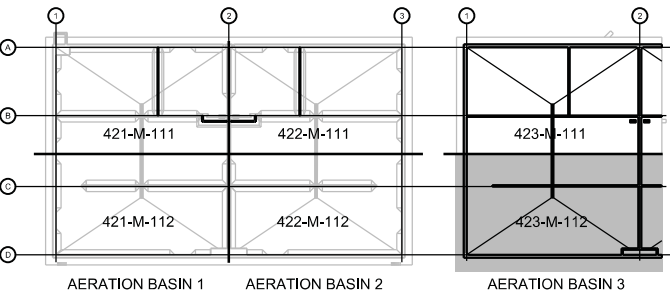
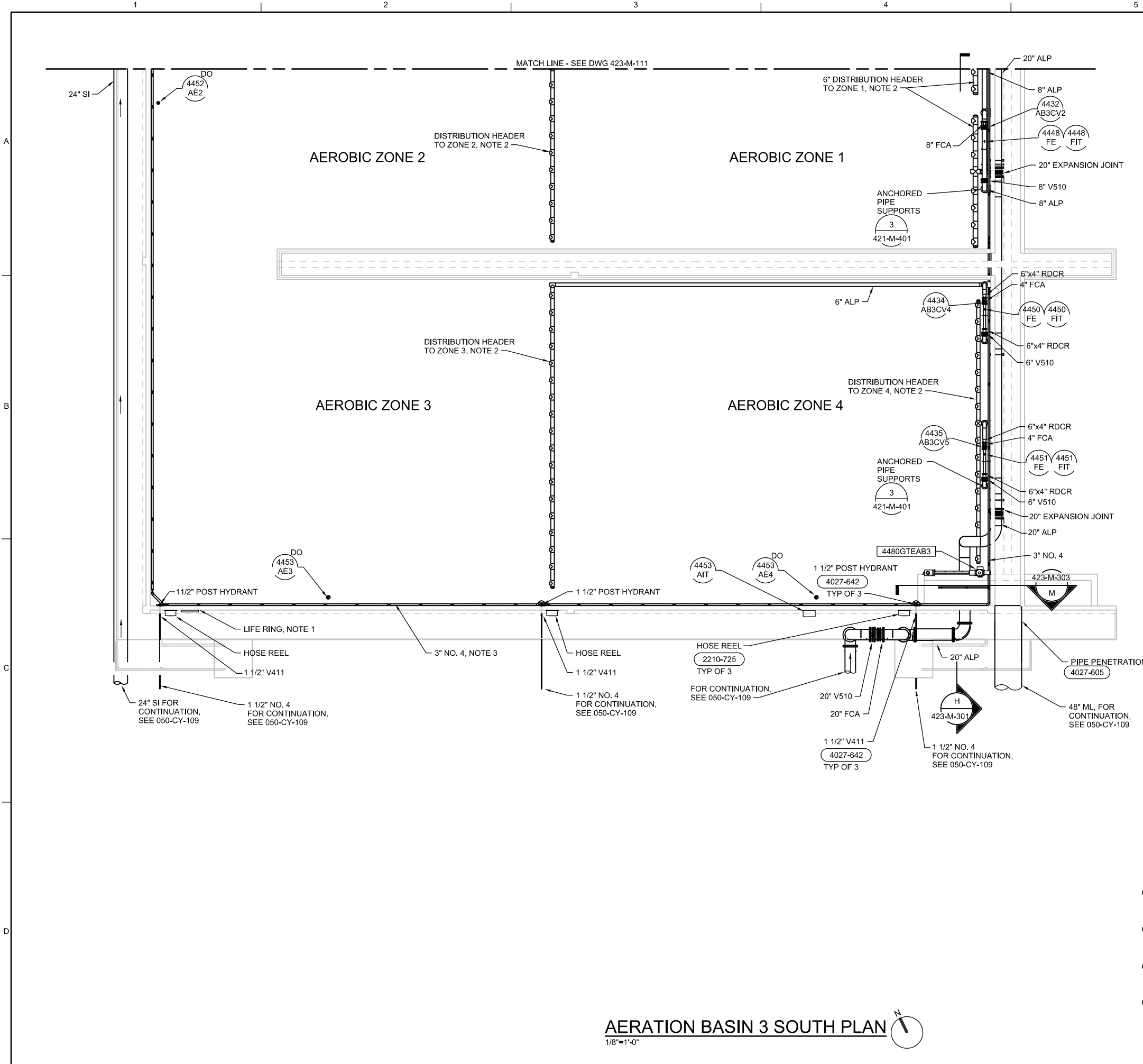
- 1. PROVIDE AND INSTALL WALL MOUNTED 33"x33"x5.5" FIBERGLASS LIFE RING CABINET, SAFETY YELLOW, NON-LOCKING T-HANDLE. WITH 30" LIFE RING AND 90' ROPE WITH FLOAT AS MANUFACTURED BY CHEYENNE MANUFACTURING INC.
- 2. DISTRIBUTION HEADERS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY. COORDINATE FINAL LOCATION AND DIMENSIONS WITH FINE BUBBLE AIR DIFFUSER SYSTEM MANUFACTURER.
- 3. PROVIDE 3"x3"x1" TEES AT 5'-0" O.C. PROVIDE TYPE 2 NOZZLES IN EVERY OTHER TEE FOR A 10'-0" NOZZLE SPACING. CAP REMAINING TEES FOR FUTURE NOZZLES.



NO.	DATE	DSGN	DR	CHK	REVISION	BY	APVD

NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

<p>CH2MHILL PROCESS MECHANICAL AERATION BASIN 3 SOUTH PLAN</p>	
AS NOTED	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	DECEMBER 2014
PROJ	480770
DWG	423-M-112
SHEET	148 of 157

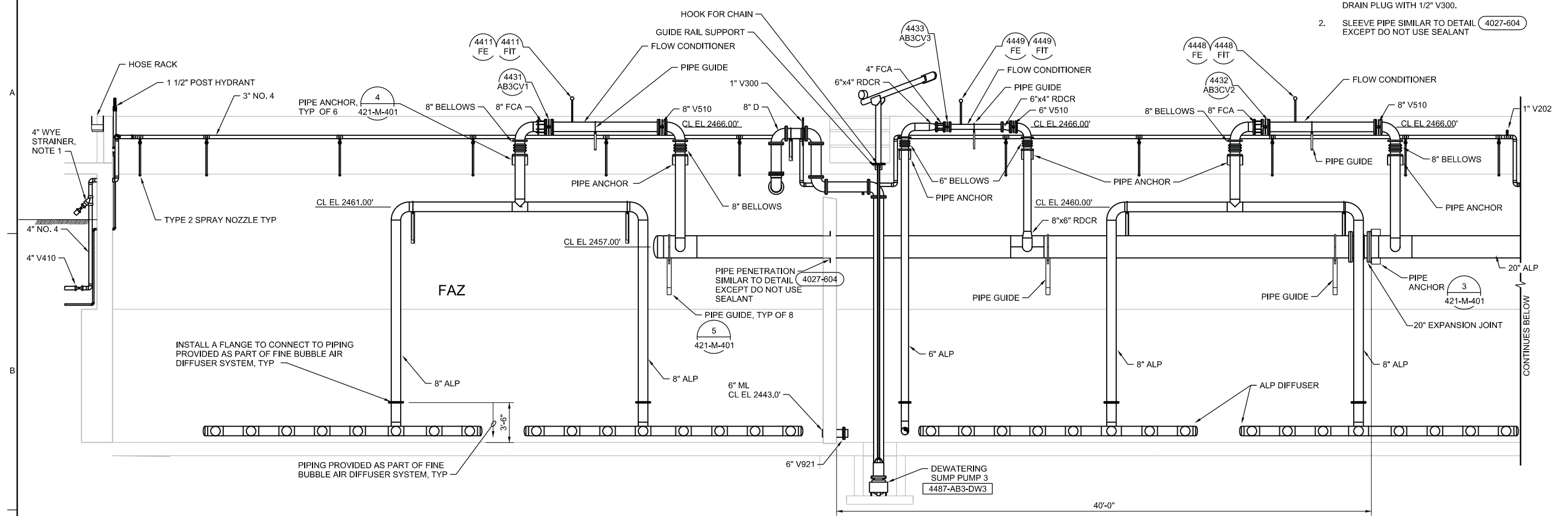
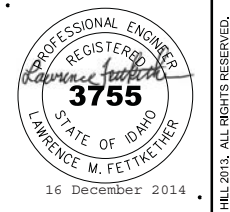


AERATION BASIN 3 SOUTH PLAN
 1/8" = 1'-0"

KEY PLAN
 NTS

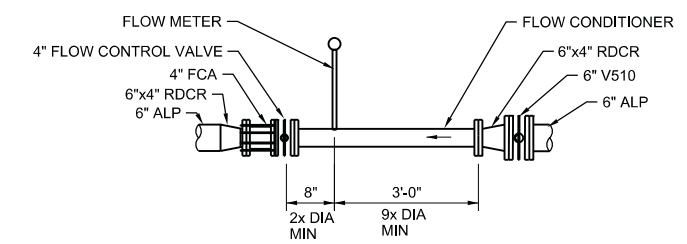
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- NOTES:
1. INSTALL WYE STRAINER UPSIDE DOWN AND REPLACE DRAIN PLUG WITH 1/2" V300.
 2. SLEEVE PIPE SIMILAR TO DETAIL 4027-604 EXCEPT DO NOT USE SEALANT

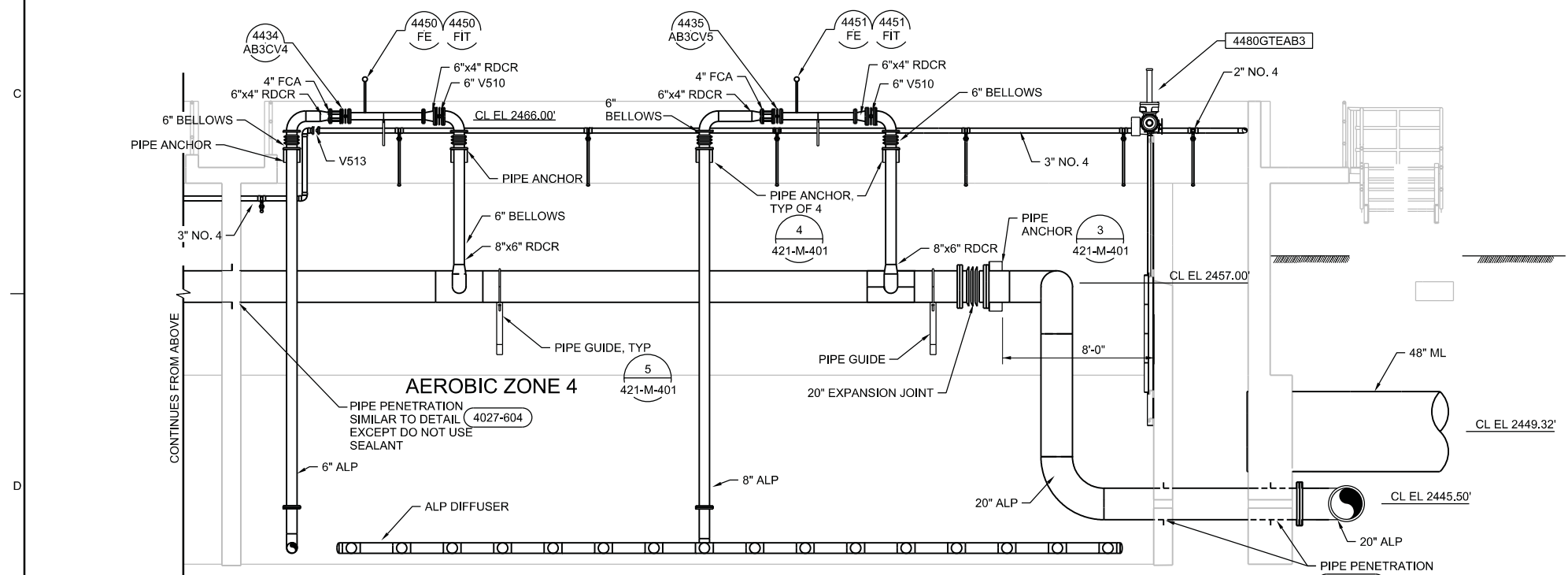


H SECTION
1/4"=1'-0"

423-M-111
423-M-112

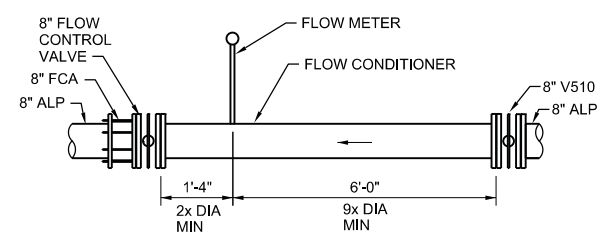


TYPICAL 6" ALP DROP LEG LAYOUT
1/2"=1'-0"



H SECTION
1/4"=1'-0"

423-M-111
423-M-112



TYPICAL 8" ALP DROP LEG LAYOUT
1/2"=1'-0"

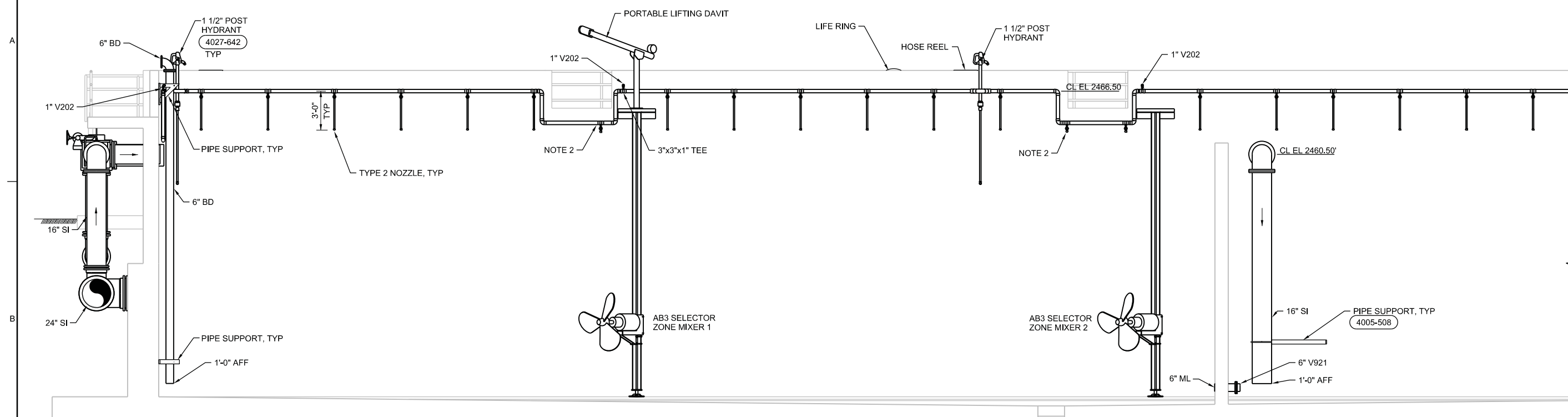
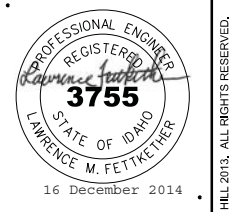
NO.	DATE	DR	CHK	REVISION	BY	APVD
		A. ARANGO	J. PIGMAN		L. FETTKETTER	G. THOMPSON

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

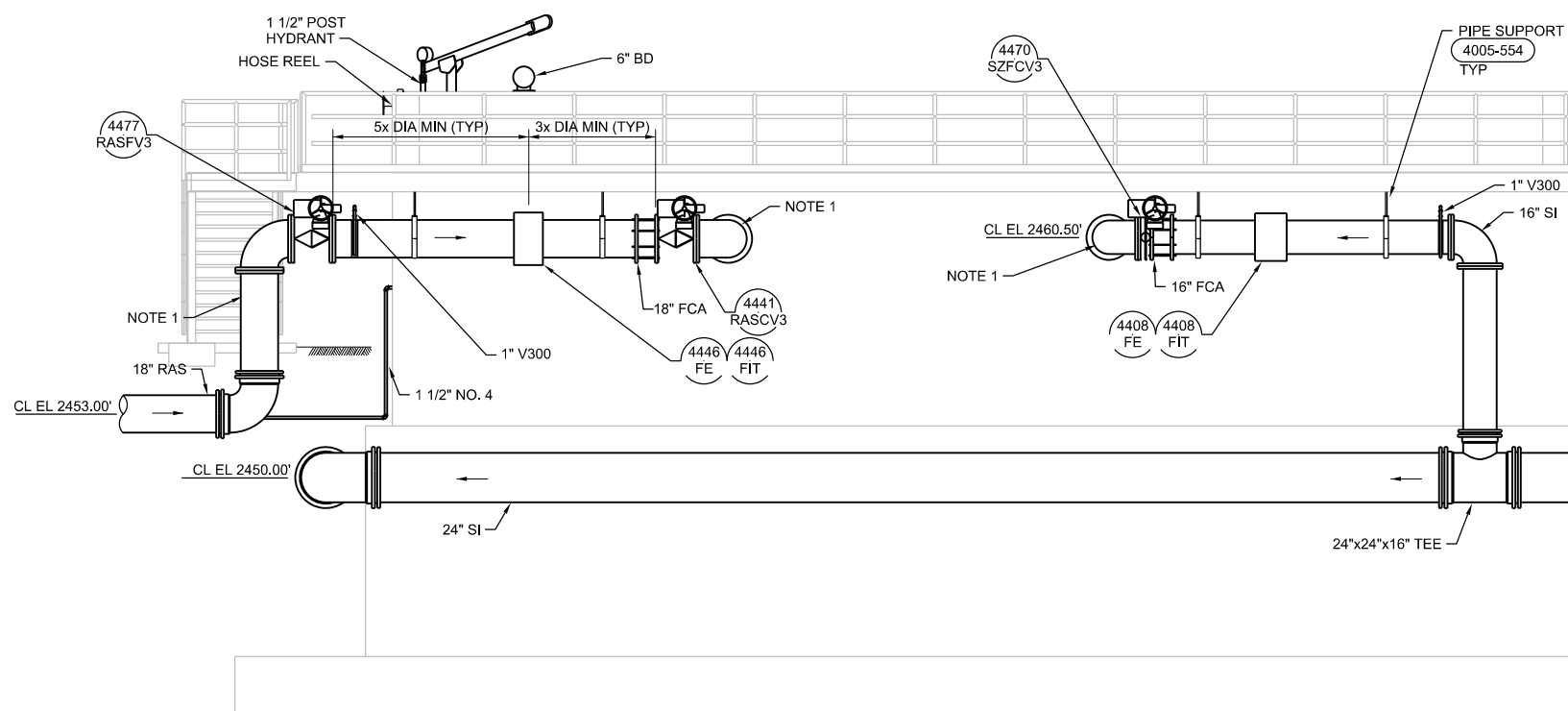
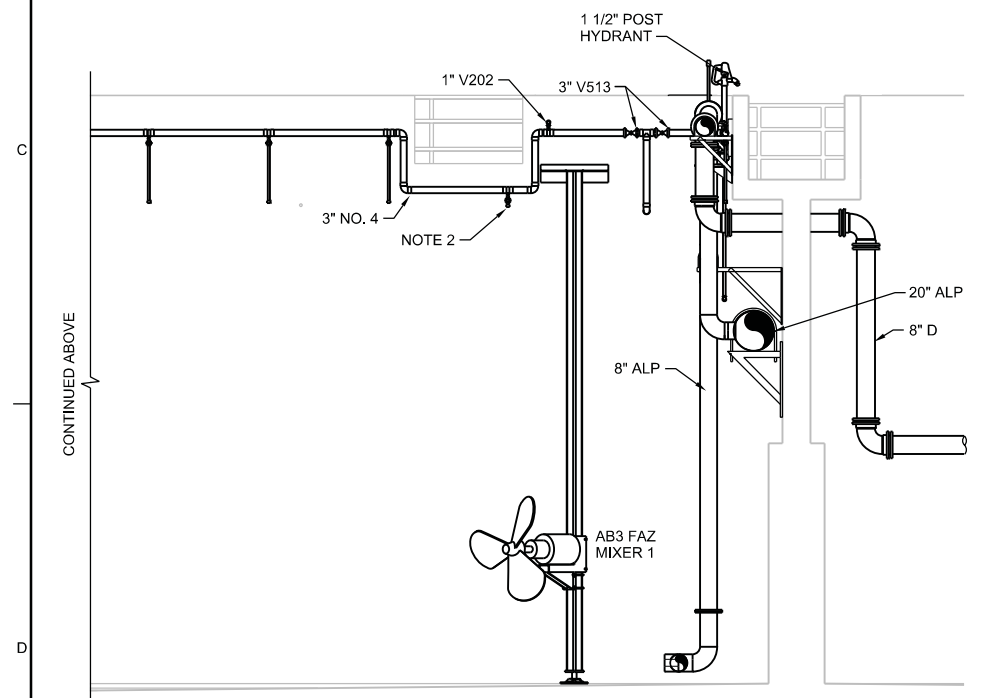
CH2MHILL
PROCESS MECHANICAL
AERATION BASIN 3 SECTIONS

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE DECEMBER 2014
PROJ 480770
DWG 423-M-301
SHEET 149 of 157

- NOTES:
- HEAT TRACE AND INSULATE ALL EXPOSED RAS AND SI PIPES OUTSIDE THE AERATION BASIN.
 - INSTALL AT LEAST 1 TYPE 2 NOZZLE AT EACH LOW POINT IN NO. 4 PIPE.



J SECTION
1/4"=1'-0"
423-M-111



K SECTION
1/4"=1'-0"
423-M-111

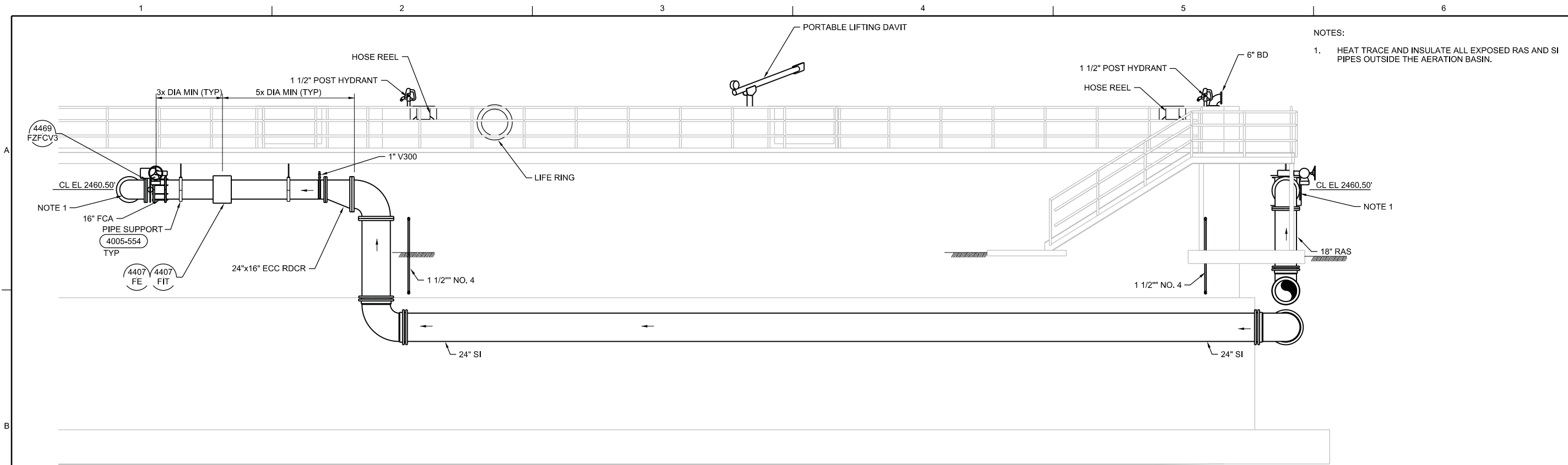
J SECTION
1/4"=1'-0"
423-M-111

NO.	DATE	DR	CHK	BY
		A. ARANGO	J. PIGMAN	G. THOMPSON
			L. FETTKETTER	

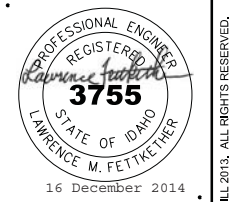
NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
PROCESS MECHANICAL
AERATION BASIN 3
SECTIONS

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE: DECEMBER 2014
PROJ: 480770
DWG: 423-M-302
SHEET: 150 of 157

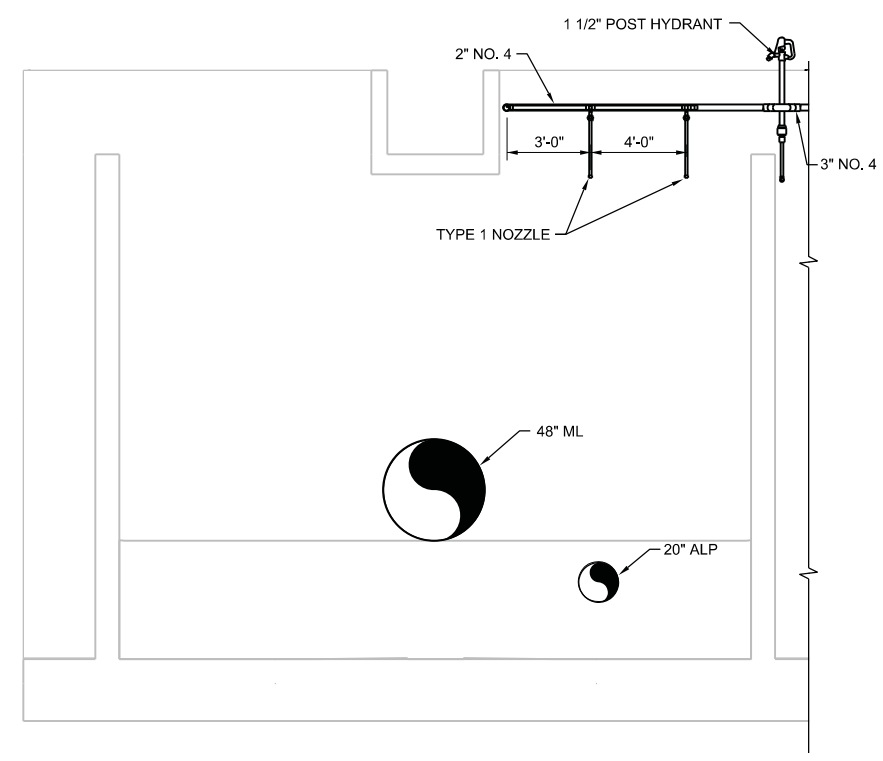


NOTES:
 1. HEAT TRACE AND INSULATE ALL EXPOSED RAS AND SI PIPES OUTSIDE THE AERATION BASIN.

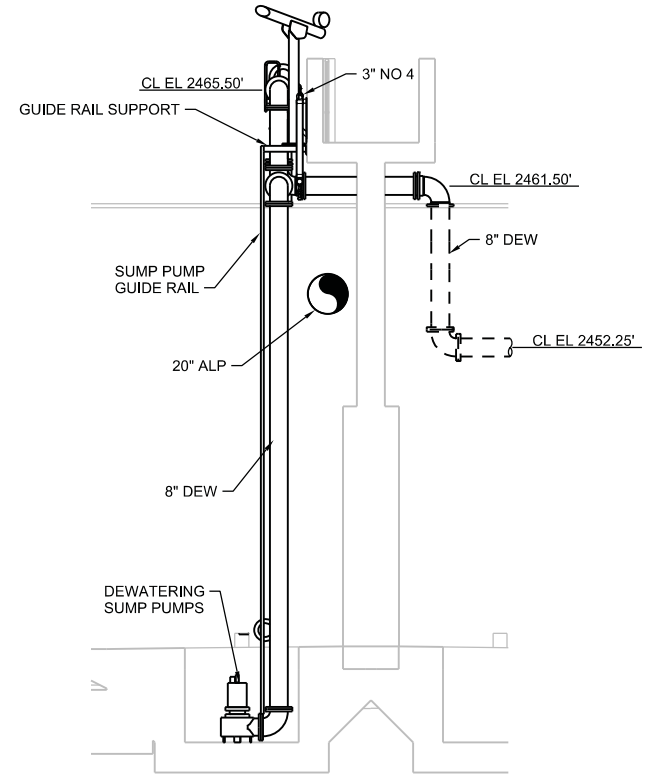


NO.	DATE	DR	CHK	BY
		A. ARANGO	J. PIGMAN	G. THOMPSON
			L. FETTKETHER	

L SECTION
 1/4"=1'-0"
 423-M-111



M SECTION
 1/4"=1'-0"
 423-M-111



N SECTION
 1/4"=1'-0"
 423-M-112

NAMPA WWTP PHASE 1 UPGRADES
 PROJECT GROUP A
 CITY OF NAMPA
 NAMPA, IDAHO

CH2MHILL
 PROCESS MECHANICAL
 AERATION BASIN 3
 SECTIONS

AS NOTED
 VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	DECEMBER 2014
PROJ	480770
DWG	423-M-303
SHEET	151 of 157

GENERAL SHEET NOTES

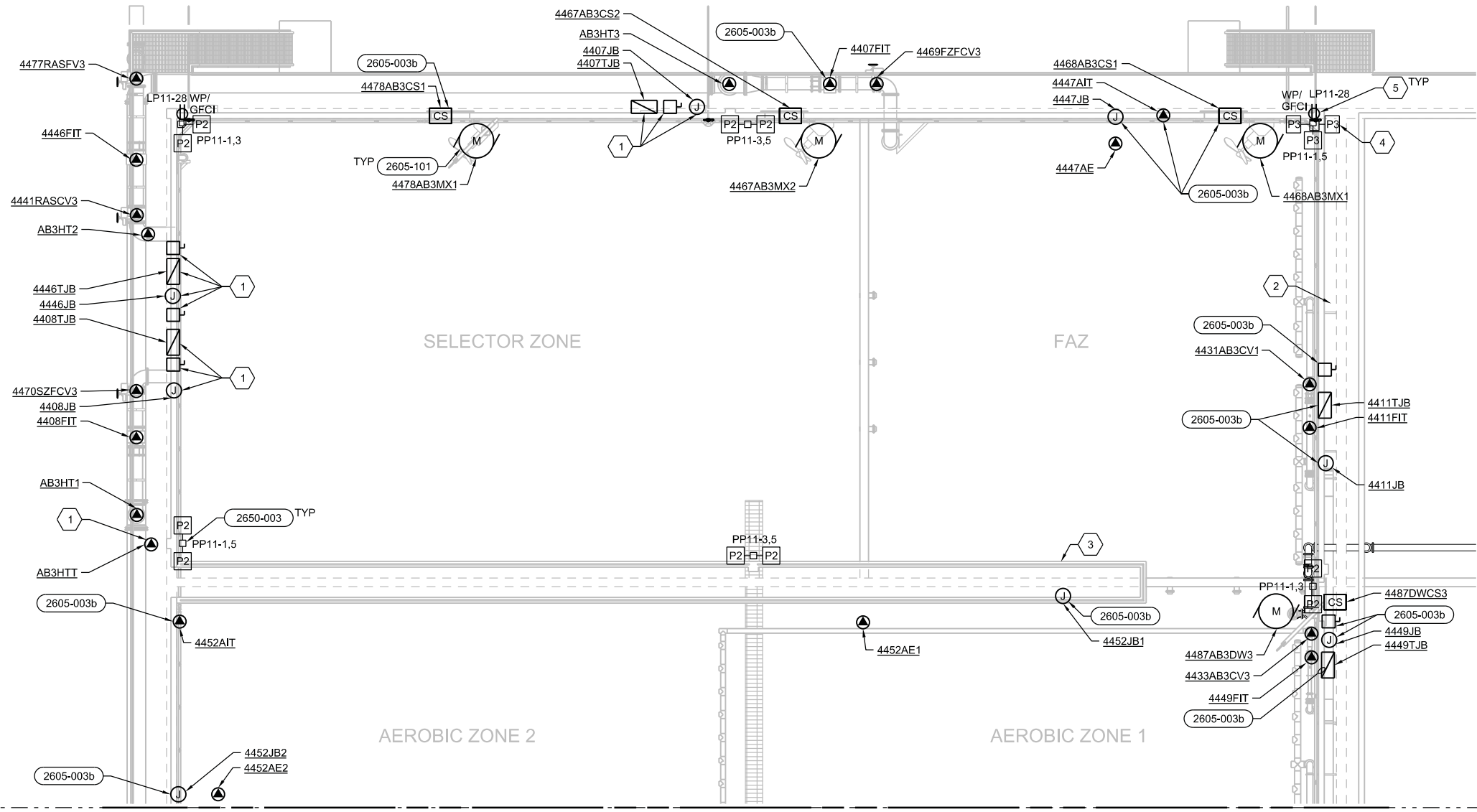
- A. FOR CIRCUITS SEE BLOCK DIAGRAMS.
- B. SEE AREA CLASSIFICATION AND MATERIAL SELECTION TABLE ON DRAWING 010-G-028.

SHEET KEYNOTES

- 1. WALL MOUNT DEVICES UNDER WALKWAY.
- 2. PIPE AND CONDUIT ROUTING ALONG WALKWAY BETWEEN BASINS WILL BE CONGESTED. COORDINATE CONDUIT SUPPORTS AND ROUTING WITH MECHANICAL.
- 3. MOUNT CONDUIT ALONG WALKWAY IN ACCORDANCE WITH 2605-302.
- 4. PROVIDE ALL REQUIRED CIRCUITING FOR POLE MOUNTED LIGHTS ON AERATION BASIN 3. SOURCE PANEL AND CIRCUITS ARE INDICATED AT EACH POLE. ROUTE ALL 3 PHASE CONDUCTORS TO EACH POLE. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG.
- 5. INSTALL CONVENIENCE RECEPTACLE IN LIGHT POLE. PROVIDE CIRCUITING BACK TO SOURCE PANEL AND BREAKER AS SHOWN. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG.



NO.	DATE	DSGN	DR	CHK	REVISION	BY	APVD
			T. PALIN				
				K. BARTLETT			
				M. MACROSTIE			
				G. THOMPSON			



NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL®

ELECTRICAL
**AERATION BASIN 3 NORTH
PLAN**

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SHEET 152 of 157

AERATION BASIN 3 NORTH PLAN

1/8"=1'-0"



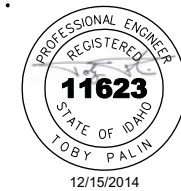
1 2 3 4 5 6

GENERAL SHEET NOTES

- A. FOR CIRCUITS SEE BLOCK DIAGRAMS.
- B. SEE AREA CLASSIFICATION AND MATERIAL SELECTION TABLE ON DRAWING 010-G-028.

SHEET KEYNOTES

1. PIPE AND CONDUIT ROUTING ALONG WALKWAY BETWEEN BASINS WILL BE CONGESTED. COORDINATE CONDUIT SUPPORTS AND ROUTING WITH MECHANICAL.
2. MOUNT CONDUIT ALONG WALKWAY IN ACCORDANCE WITH 2605-302.
3. PROVIDE ALL REQUIRED CIRCUITING FOR POLE MOUNTED LIGHTS ON AERATION BASIN 3. SOURCE PANEL AND CIRCUITS ARE INDICATED AT EACH POLE. ROUTE ALL 3 PHASE CONDUCTORS TO EACH POLE. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG.
4. INSTALL CONVENIENCE RECEPTACLE IN LIGHT POLE. PROVIDE CIRCUITING BACK TO SOURCE PANEL AND BREAKER AS SHOWN. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG.



NO.	DATE	DSGN	DR	CHK	REVISION	BY	APVD
			T. PALIN				
			K. BARTLETT				
							M. MACROSTIE
							G. THOMPSON

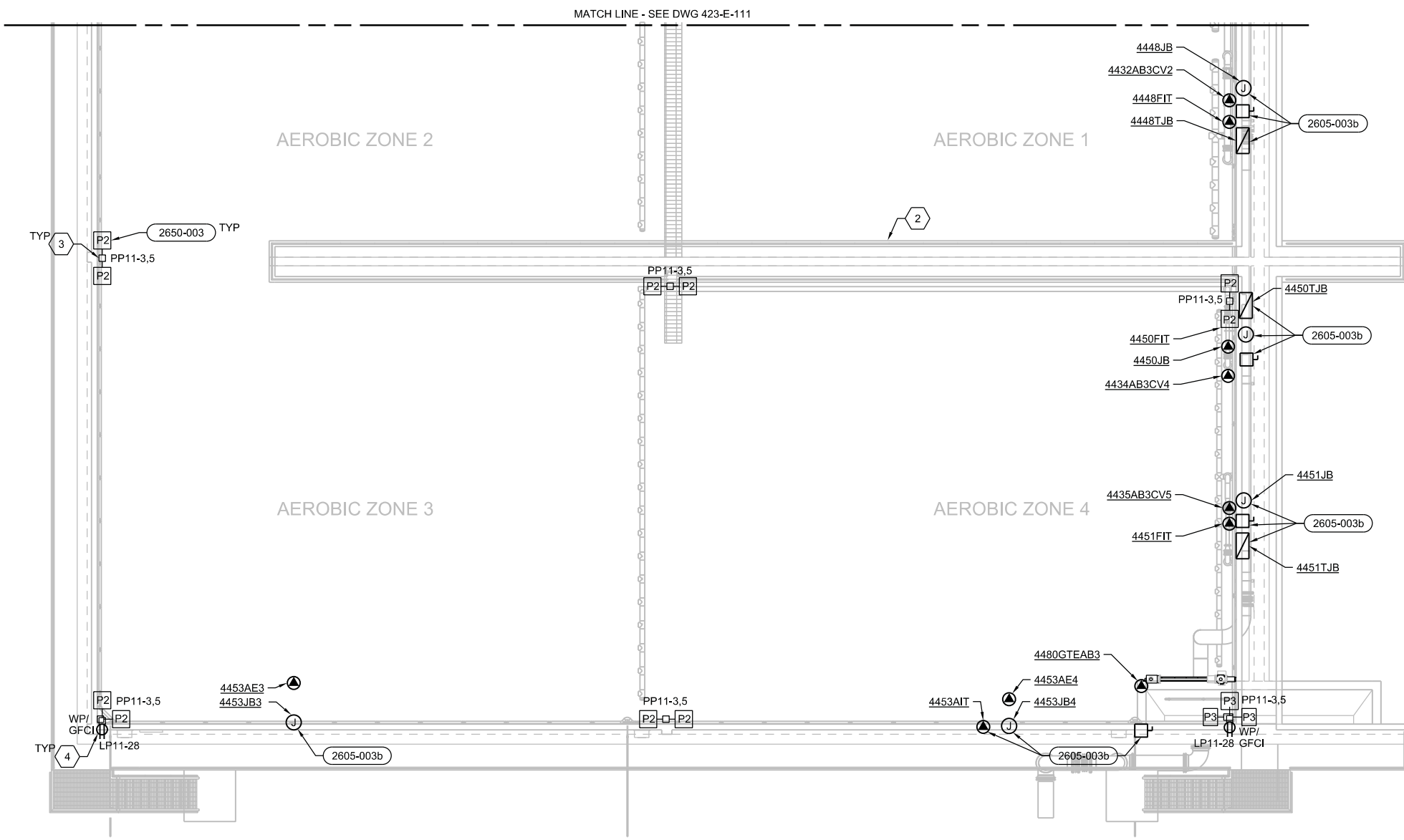
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AERATION BASIN 3 SOUTH PLAN

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SHEET: 153 of 157

BID DOCUMENTS



AERATION BASIN 3 SOUTH PLAN
 1/8"=1'-0"

SHEET KEYNOTES

1. CIRCUITS SHALL BE GROUPED INTO AND SHARED CONDUITS IN ACCORDANCE WITH DUCT BANK SCHEDULE.



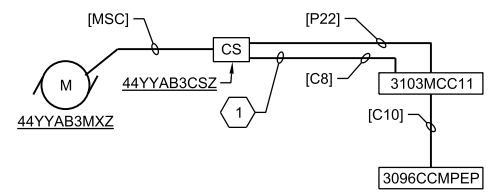
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NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

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**AERATION BASIN 3
BLOCK DIAGRAMS**

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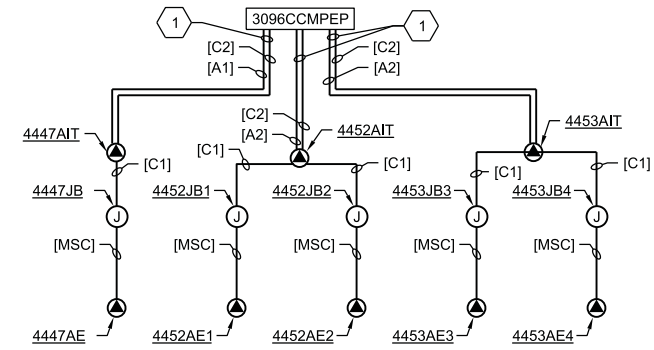
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 BID DOCUMENTS



YY	Z
78	1
67	2
68	1

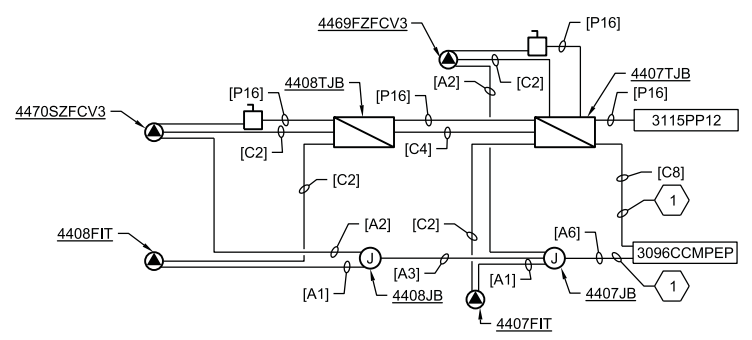
SUBMERSIBLE MIXERS

NTS



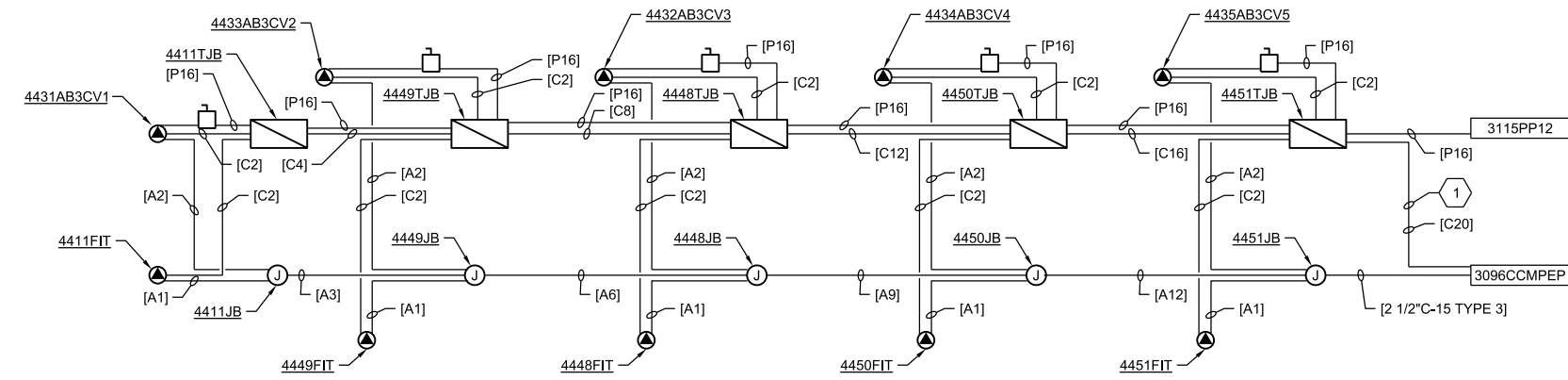
DO ANALYZER

NTS



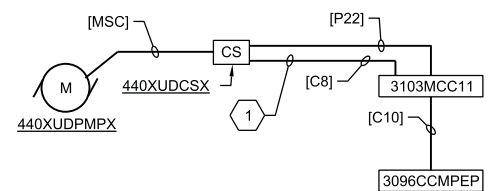
SECONDARY INFLUENT FLOW CONTROL

NTS



AIR FLOW CONTROL

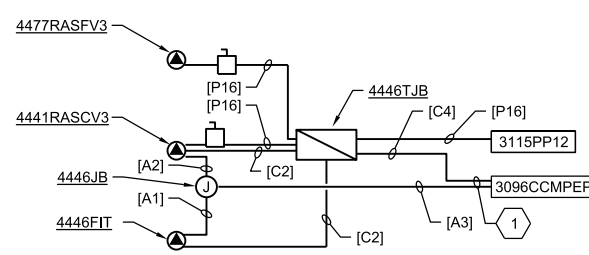
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X
1
2

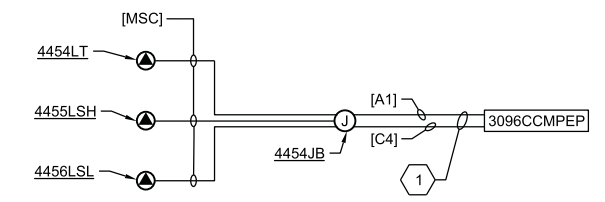
UNDERDRAIN PUMPS

NTS



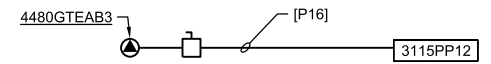
RAS FLOW CONTROL

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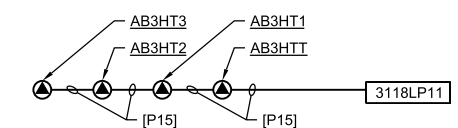
UNDERDRAIN LEVEL SENSING

NTS



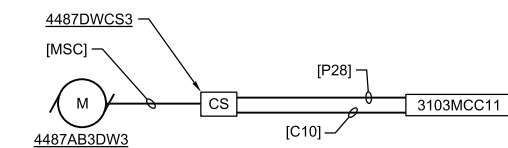
EFFLUENT BOX ACTUATED GATE

NTS



HEAT TRACING

NTS



DEWATERING SUMP PUMP

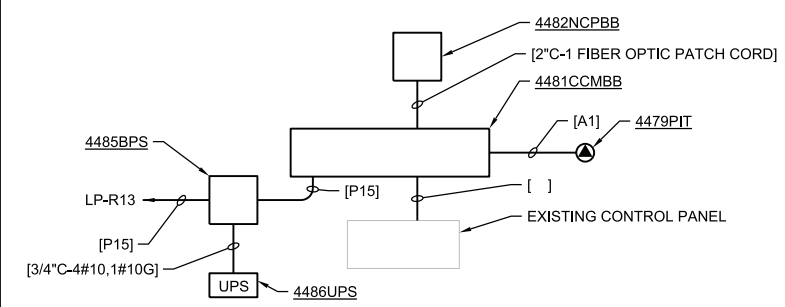
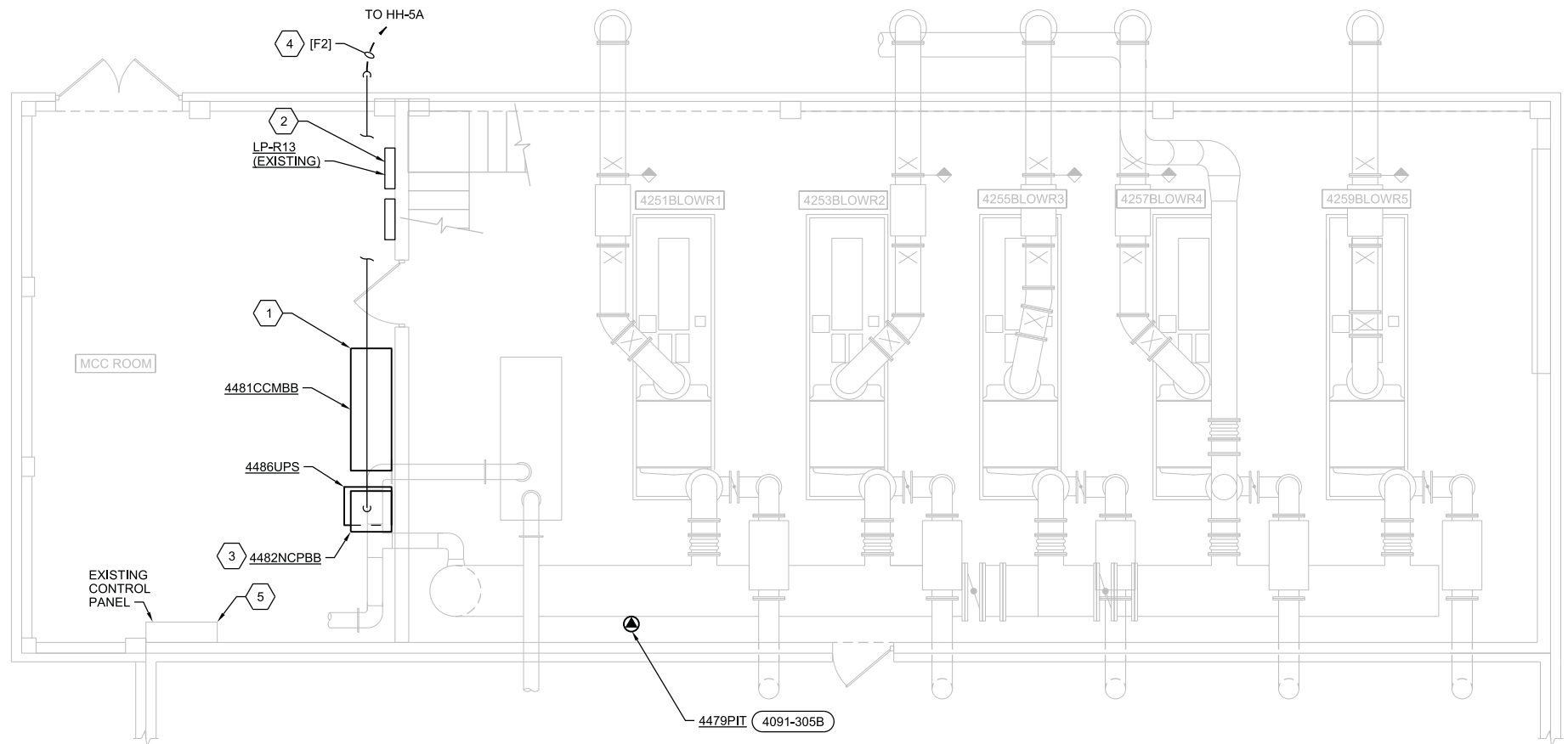
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SHEET KEYNOTES

1. PROVIDE NEW CONTROL PANEL 4481CCMBB TO REPLACE THE FUNCTIONALITY OF THE EXISTING CONTROL PANEL. ROUTE ALL I/O FROM EXISTING CONTROL PANEL TO 4481CCMBB. COORDINATE CONTROL SYSTEM SWITCH OVER WITH OWNER AND SYSTEM INTEGRATOR.
2. PROVIDE 30A, 1 POLE BREAKER IN EXISTING PANELBOARD FOR NEW 4481CCMBB.
3. INSTALL 4482NCPBB ABOVE 4486 UPS. THE TOP OF 4482NCPBB SHALL BE 90" AFF.
4. FOR CONTINUATION SEE SITE PLANS.
5. ALL DISCRETE INPUT, DISCRETE OUTPUT, ANALOG INPUT, AND ANALOG OUTPUT CIRCUITS SHALL BE EXTENDED FROM THE INPUT TERMINAL BLOCKS TO NEW CONTROL CABINET 4481CCMBB. REUSE EXISTING CONTROL PANEL AS A TERMINAL JUNCTION BOX. REUSE EXISTING TERMINAL BLOCKS, SALVAGE PLC, UPS, AND ETHERNET SWITCH TO THE CITY. REMOVE ALL EXTRANEOUS WIRING AND TERMINAL BLOCKS. FOR BIDDING PURPOSES ASSUME 31 ANALOG INPUTS, 20 ANALOG OUTPUTS, 112 DISCRETE, INPUTS, AND 32 DISCRETE OUTPUTS CIRCUITS WILL BE EXTENDED FROM THE EXISTING CONTROL CABINET TO 4481CCMBB. PROVIDE ALL CONDUITS AND CONDUCTORS AS REQUIRED TO ACCOMPLISH WORK.



NO.	DATE	DR	CHK	REVISION	BY
		T. PALIN	M. RARDIN		G. THOMPSON



BLOCK DIAGRAM
NTS

BLOWER ROOM PLAN
1/4"=1'-0"

NAMPA WWTP PHASE 1 UPGRADES
PROJECT GROUP A
CITY OF NAMPA
NAMPA, IDAHO

CH2MHILL
ELECTRICAL
BLOWER ROOM PLAN

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