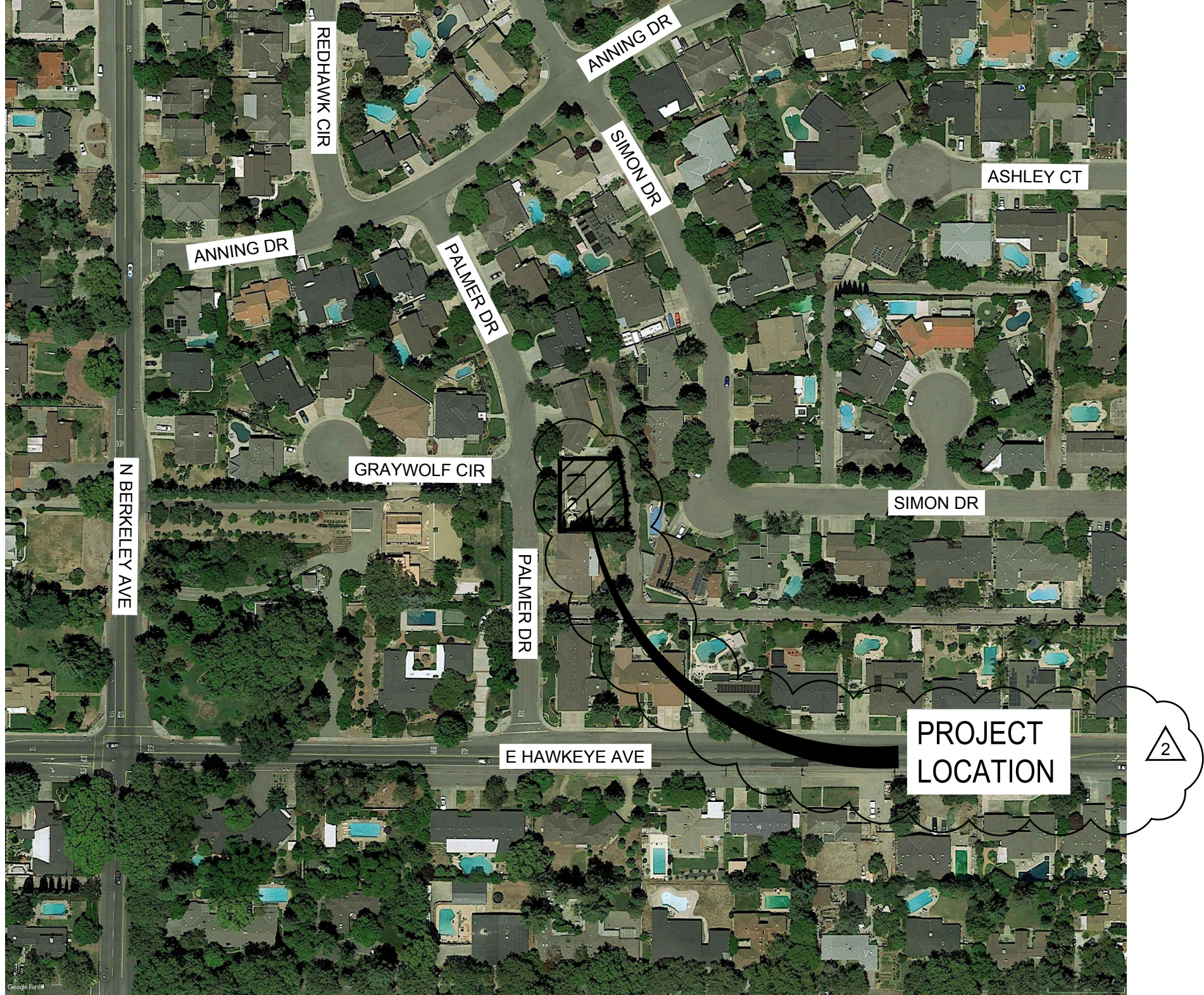
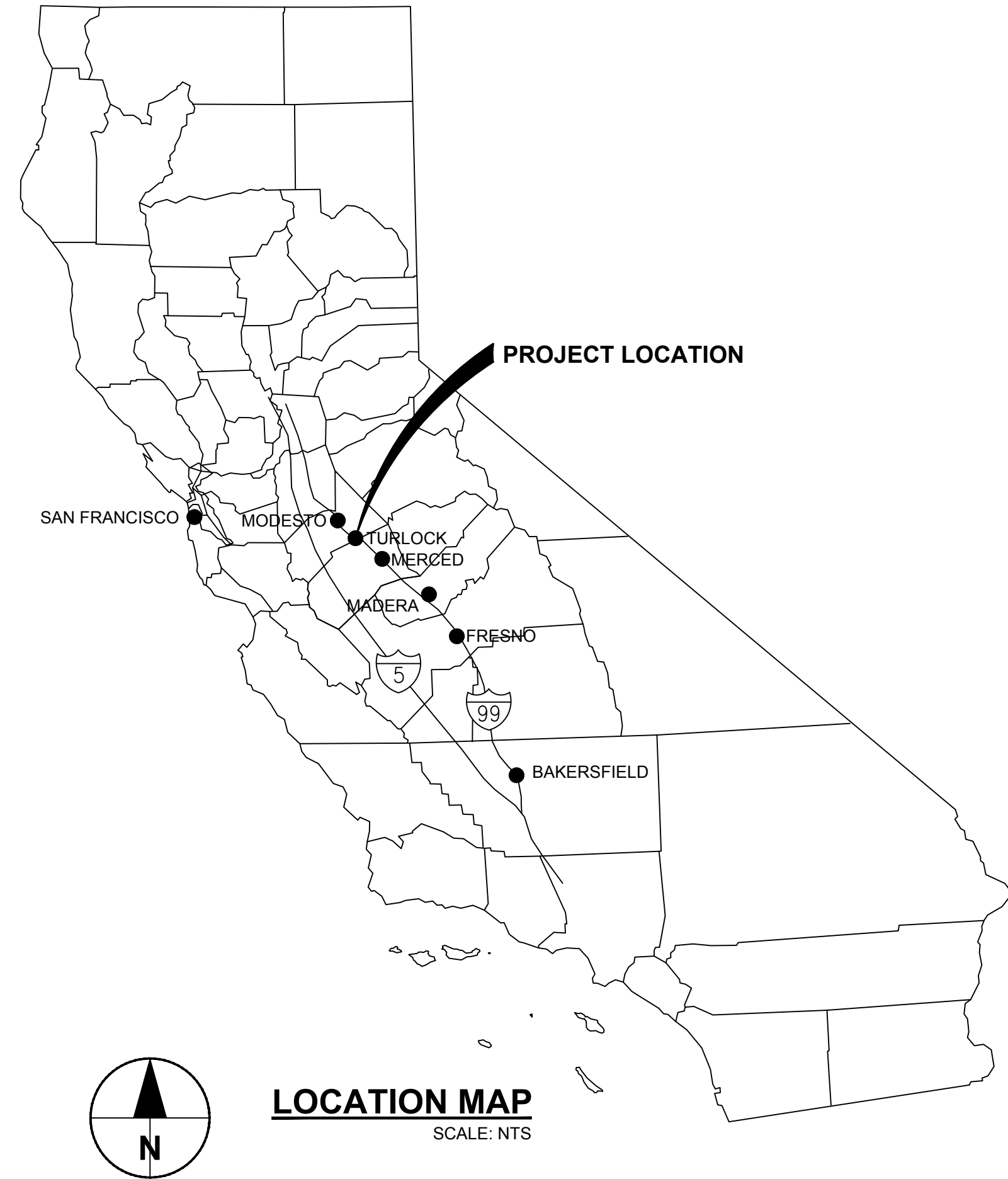


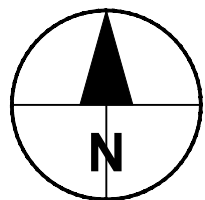
CITY OF TURLOCK

CONSTRUCTION PLANS FOR WELL 8 GAC SYSTEM REHABILITATION/RESTART CITY OF TURLOCK PROJECT NO. 18-59

SHEET LIST	
GENERAL	
SHEET NUMBER	SHEET DESCRIPTION
G-001	COVER SHEET AND SHEET INDEX
G-002	ABBREVIATIONS AND LEGEND
CIVIL	
C-100	EXISTING TREATMENT SITE LAYOUT
C-101	EXISTING TREATMENT SITE LAYOUT & DEMO PLAN
C-102	UPGRADES TO EXISTING WELL #8 BUILDING
C-201	GAC - PLAN & SECTIONS
C-202	MISCELLANEOUS DETAILS 1
C-203	MISCELLANEOUS DETAILS 2
C-204	CHEMICAL BUILDING PLAN & ELEVATIONS
ELECTRICAL	
E-100	ELECTRICAL LEGEND AND ABBREVIATIONS
E-101	ELECTRICAL SITE PLAN
E-102	SINGLE LINE DIAGRAM
E-103	CONDUIT SCHEDULE
E-104	ELECTRICAL DETAILS
E-105	SCHEMATIC DIAGRAMS
INSTRUMENTATION	
N-001	INSTRUMENTATION LEGEND & SYMBOLS
N-002	COMMUNICATION BLOCK DIAGRAM
N-501	INSTRUMENTATION DETAILS
N-601	GAC TREATMENT P&ID
N-602	CHEMICAL FEED SYSTEM P&ID



VICINITY MAP
SCALE: NTS



GENERAL NOTES

- ALL WORK ON THIS PROJECT SHALL COMPLY WITH THE CITY OF TURLOCK CONSTRUCTION STANDARDS AND DRAWINGS AND ANY MODIFICATIONS THERETO BY THESE CONTRACT DOCUMENTS. ALL CONSTRUCTION DETAILS NOT SHOWN HEREON SHALL CONFORM TO THE CITY STANDARDS SET FORTH IN THE CURRENT CITY OF TURLOCK STANDARD SPECIFICATIONS AND DRAWINGS.
- THE LOCATIONS OF THE EXISTING UNDERGROUND STRUCTURES AND UTILITIES HAVE BEEN LOCATED IN THE FIELD OR OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL ASSUME THE SOLE RESPONSIBILITY FOR DETERMINING OR CONFIRMING THE EXACT LOCATIONS OF THESE FACILITIES AND PROTECTING SAME FROM DAMAGE.
- AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING WORK, THE CONTRACTOR SHALL REQUEST UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF SUBSURFACE FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION AND DEPTH OF ALL SUBSURFACE FACILITIES WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND WHICH MAY AFFECT OR BE AFFECTED BY THEIR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT UTILITIES OR STRUCTURES FOUND AT THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND HAVING ON-SITE THE LATEST UPDATED AND SIGNED IMPROVEMENT DRAWINGS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY AND COORDINATE ALL RELATED WORK WITH THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE SPECIFICATIONS AND THESE DRAWINGS. NOTE THAT THIS PROJECT REQUIRES THE CONTACTOR TO OBTAIN AND PAY FOR A CITY OF TURLOCK BUILDING PERMIT.

CITY OF TURLOCK
DEVELOPMENT SERVICES
DEPARTMENT
NATHAN BRAY, P.E.
156 S. BROADWAY, STE 258
TURLOCK, CA 95380
(209) 668-5520

APPROVALS:

NATHAN BRAY P.E.
INTERIM DEVELOPMENT SERVICES
DIRECTOR/CITY ENGINEER

AECOM

PROJECT

CITY OF TURLOCK
WELL 8 GAC SYSTEM
REHABILITATION
/RESTART
1690 PALMER DRIVE,
TURLOCK, CA 95382

CLIENT

CITY OF TURLOCK
156 S. BROADWAY AVE. SUITE 270,
TURLOCK, CA 95380



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I/R	DATE	DESCRIPTION
2	2018-11-21	ADDENDUM NO. 1
1	2018-11-02	BID SET

KEY PLAN

PROJECT NUMBER

6056689

SHEET TITLE

COVER SHEET & SHEET INDEX

ADDENDUM NO. 1

SHEET NUMBER

G-001

ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

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Filename: \\FRESNO\FRESNO\PROJECTS\TURLOCK\6056689_WELL_8_TOP TO#2900_CAD_GIS\10_CADD\20-SHEETS\ACM-6056689-G-SHT-002.DWG

LEGEND:

CENTERLINE

=====

EXISTING

=====

PROPOSED

INJECTION CONDUIT

P

PRESSURE INDICATOR

M

FLOW METER

FLEXIBLE EXPANSION JOINT

X

GATE VALVE

M

MOTORIZED BUTTERFLY VALVE

PSHL

PRESSURE SWITCH HIGH/LOW

1

C-000

DETAIL NUMBER

DETAIL SHEET

ABBREVIATIONS:

AGG	AGGREGATE
BFV	BUTTERFLY VALVE
BLK	BLOCK
CL	CENTERLINE
CL ₂	CHLORINE
DIA	DIAMETER
DWG	DRAWING
(E)	EXISITING
EA	EACH
EL	ELEVATION
FLG	FLANGE
FS	FLOW SWITCH
GAL	GALLON
GALV	GALVANIZED
HDPE	HIGH-DENSITY POLYETHYLENE
JB	JUNCTION BOX
MFR	MANUFACTURER
NaOCL	SODIUM HYPOCHLORITE
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	_____
PTFE	POLYTETRAFLUOROETHYLENE
PV	POLYVINYL CHLORIDE
SCH	SCHEDULE
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STL	STEEL
TTI	_____
TYP	TYPICAL
XFMR	TRANSFORMER



PROJECT

CITY OF TURLOCK
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PROJECT NUMBER

60566689

SHEET TITLE

ABBREVIATIONS & LEGEND

ADDENDUM NO. 1

SHEET NUMBER

G-002

← GREYWOLF CIRCLE

↑ PALMER DR ↓

CONNECTION TO DISTRIBUTION SYSTEM

RADIO TOWER

CONCRETE BLOCK WALL

CONTRACTOR'S ACCESS

WELL #8 BUILDING

(E) EYE WASH

(E) METER PANEL

WELL 8

ADSORBER PV-1

ADSORBER PV-2

(E) 13x32' CONCRETE PAD

STORM DRAIN

14'

24'

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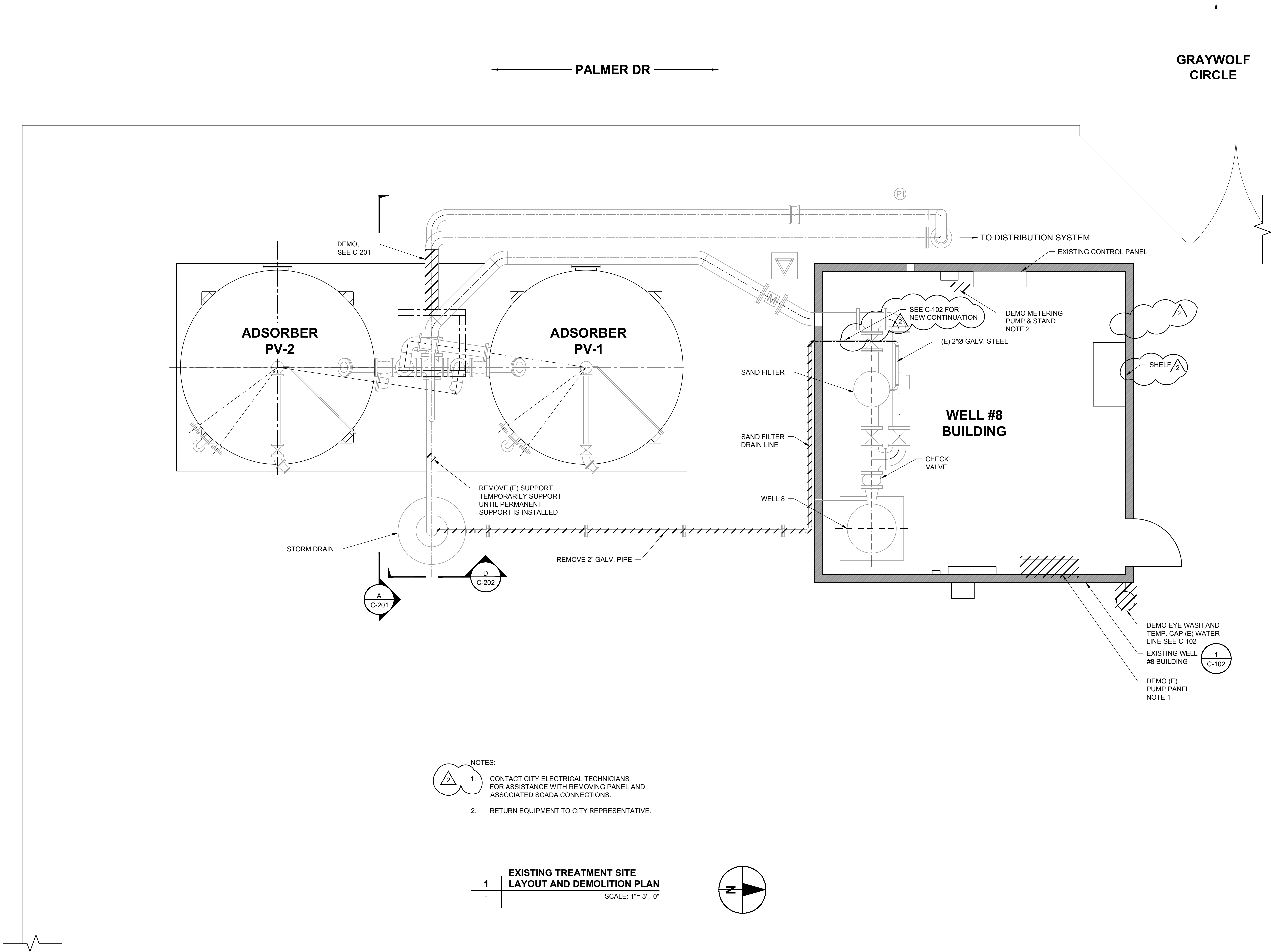
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Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____
ANSI D 22" x 34"

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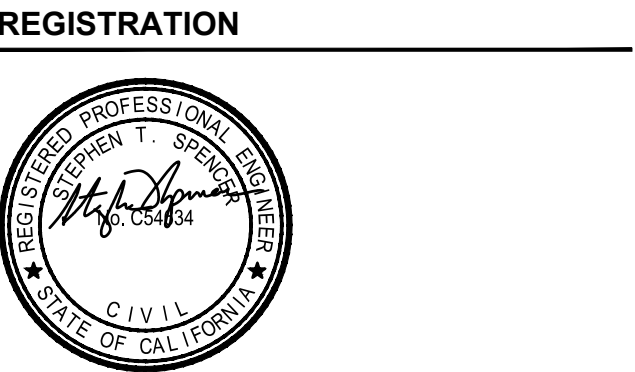


PROJECT
CITY OF TURLOCK
WELL 8 GAC SYSTEM
REHABILITATION
/RESTART
1690 PALMER DRIVE,
TURLOCK, CA 95382

CLIENT
CITY OF TURLOCK
156 S. BROADWAY AVE. SUITE 270,
TURLOCK, CA 95380



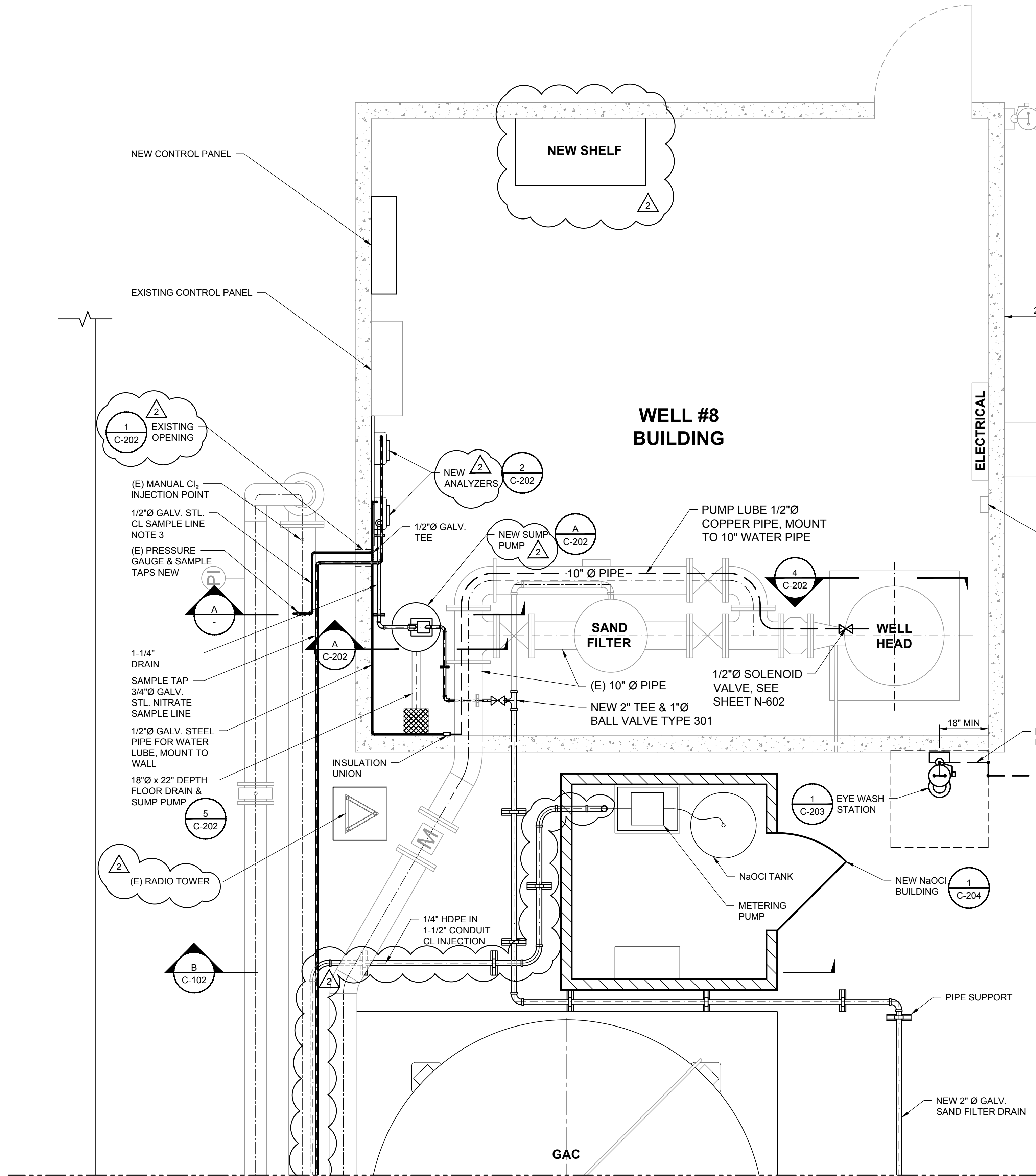
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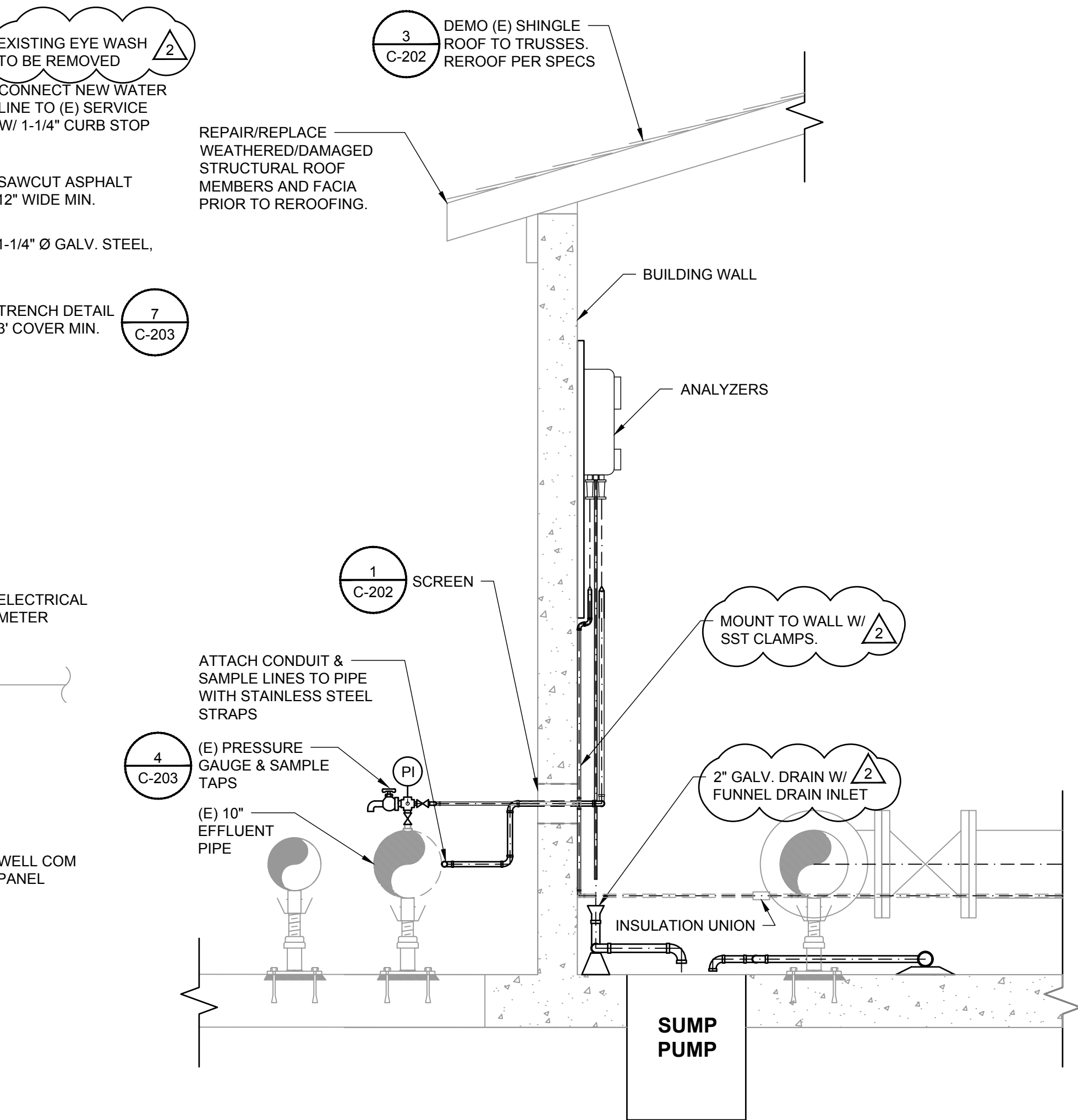
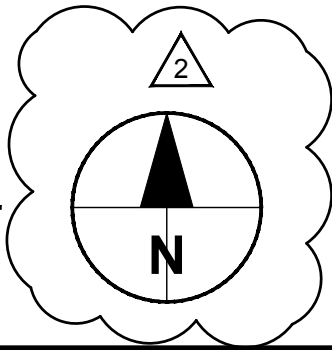
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1	2018-11-02	BID SET
I/R	DATE	DESCRIPTION

KEY PLAN

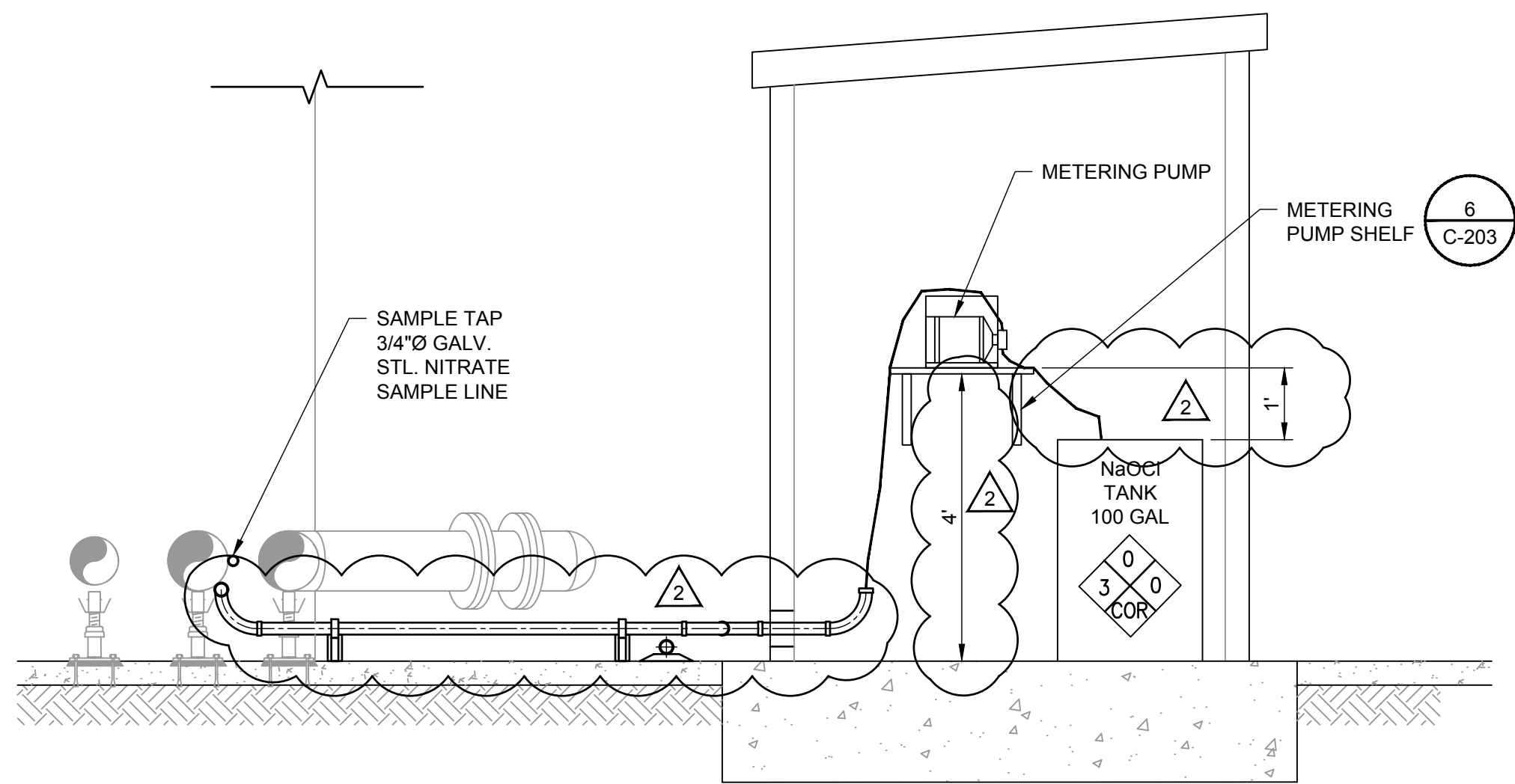
PROJECT NUMBER
60566689
SHEET TITLE
EXISTING TREATMENT SITE
LAYOUT & DEMO PLAN
ADDENDUM NO. 1
SHEET NUMBER
C-101



1 | PROPOSED WELL BUILDING IMPROVEMENTS
C101 | SCALE: 1/2" = 1' - 0"



A | WELL #8 BUILDING SECTION
SCALE: 3/4" = 1' - 0"



B | SODIUM HYPOCHLORITE BUILDING SECTION
SCALE: 3/4" = 1' - 0"



PROJECT

CITY OF TURLOCK
WELL 8 GAC SYSTEM
REHABILITATION
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PROJECT NUMBER

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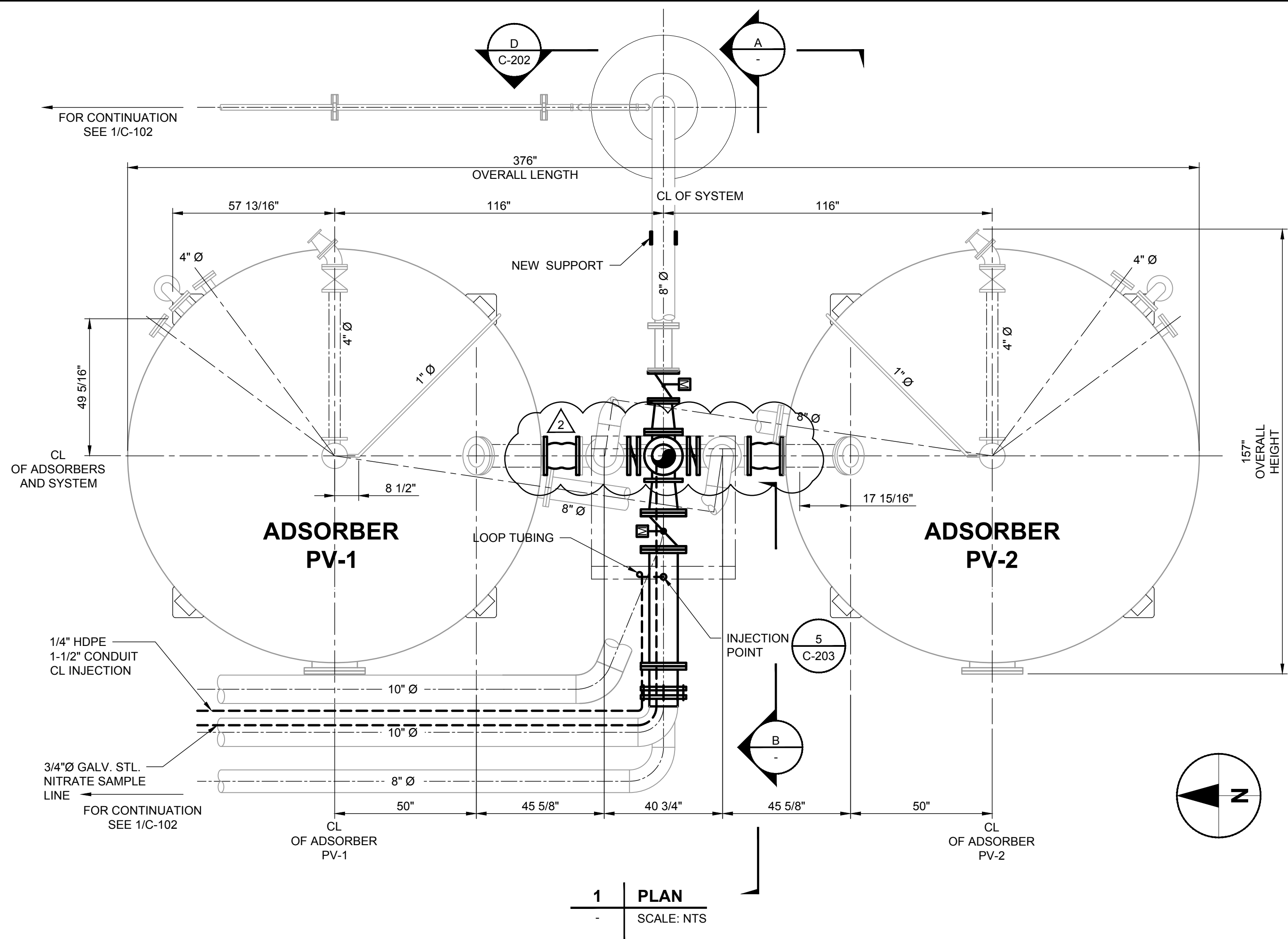
SHEET TITLE

UPGRADES TO EXISTING
WELL #8 BUILDING

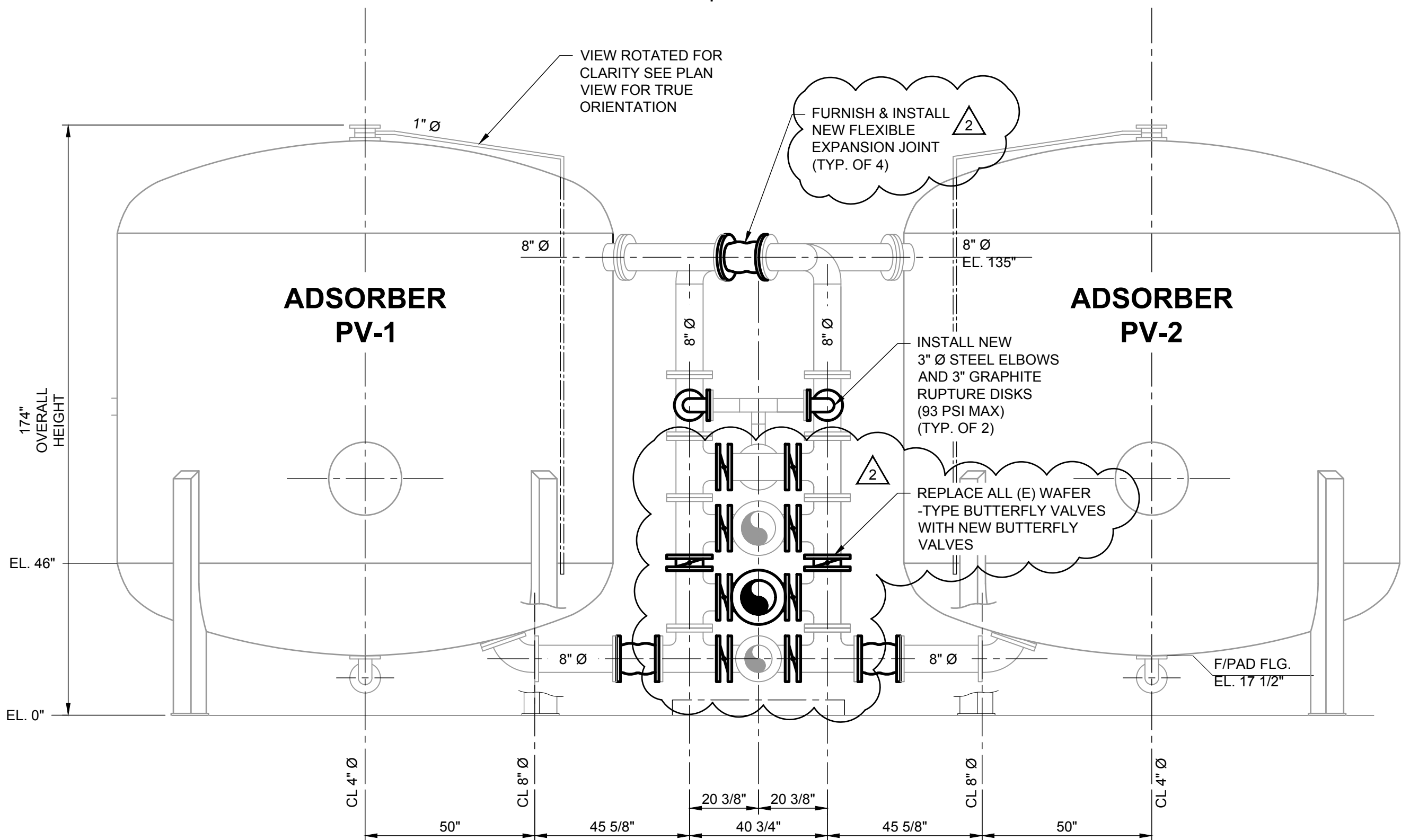
ADDENDUM NO. 1

SHEET NUMBER

C-102



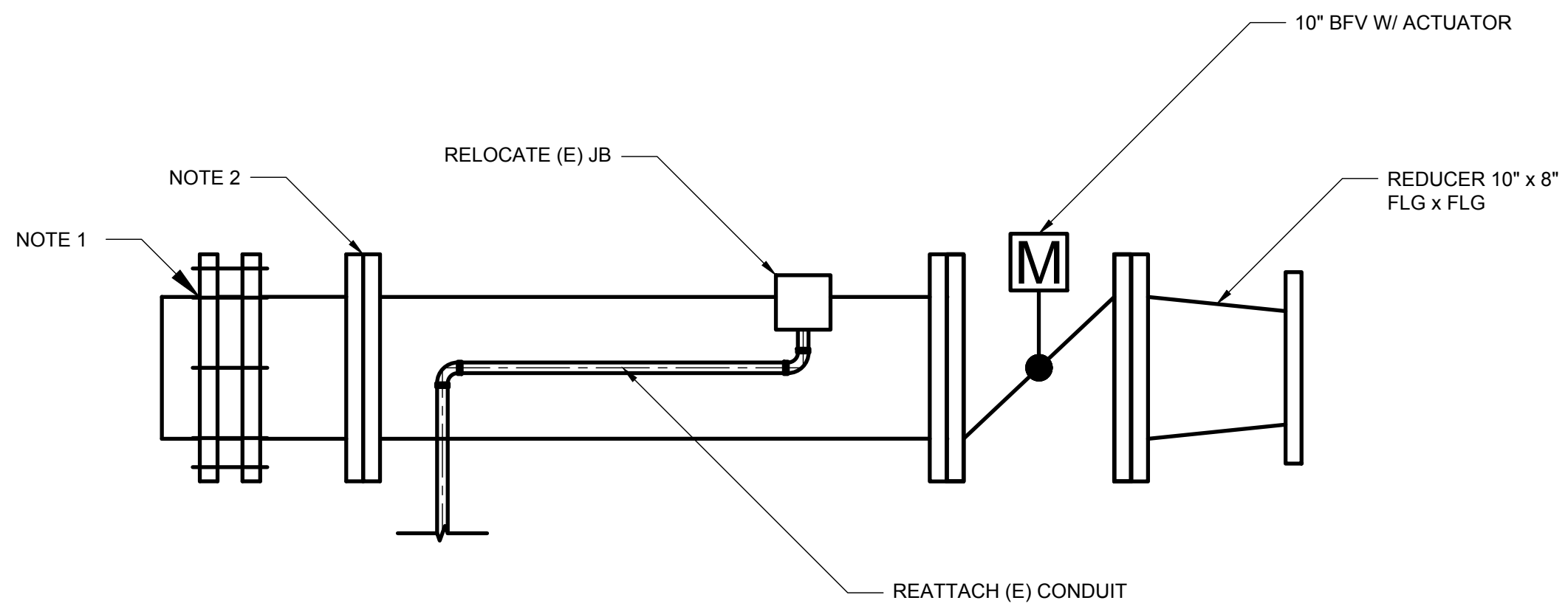
1 PLAN
SCALE: NTS



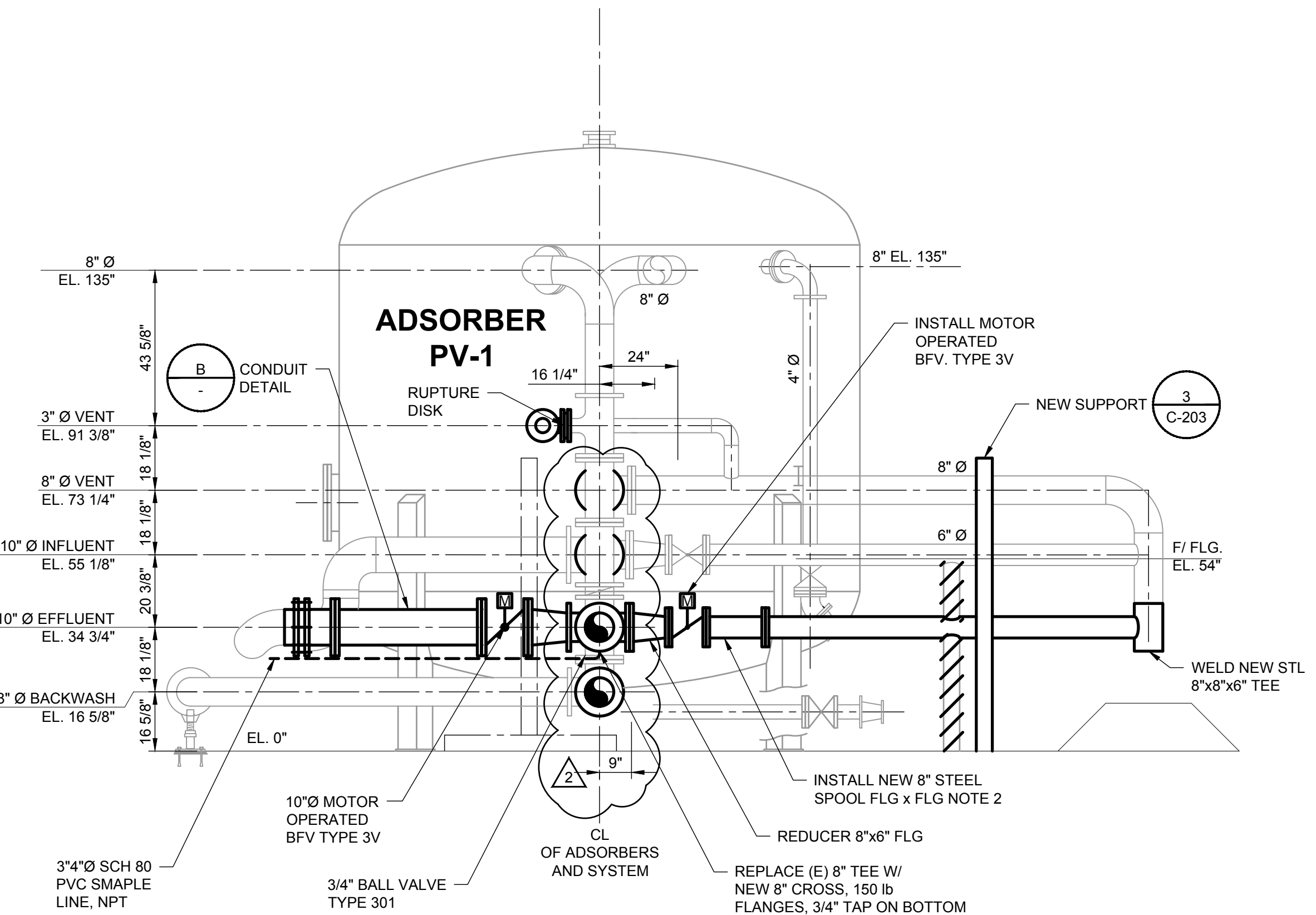
2 ELEVATION
SCALE: NTS

NOTE:

1. CUT EXISTING PIPE TO ADD VALVE AND SPOOL.
2. TRIM PLAIN END SQUARE AND INSTALL FLANGE ADAPTER.
3. DIMENSIONS FOR REFERENCE ONLY



B CONDUIT DETAIL
SCALE: NTS



A SECTION
SCALE: NTS

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PROJECT

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KEY PLAN

PROJECT NUMBER

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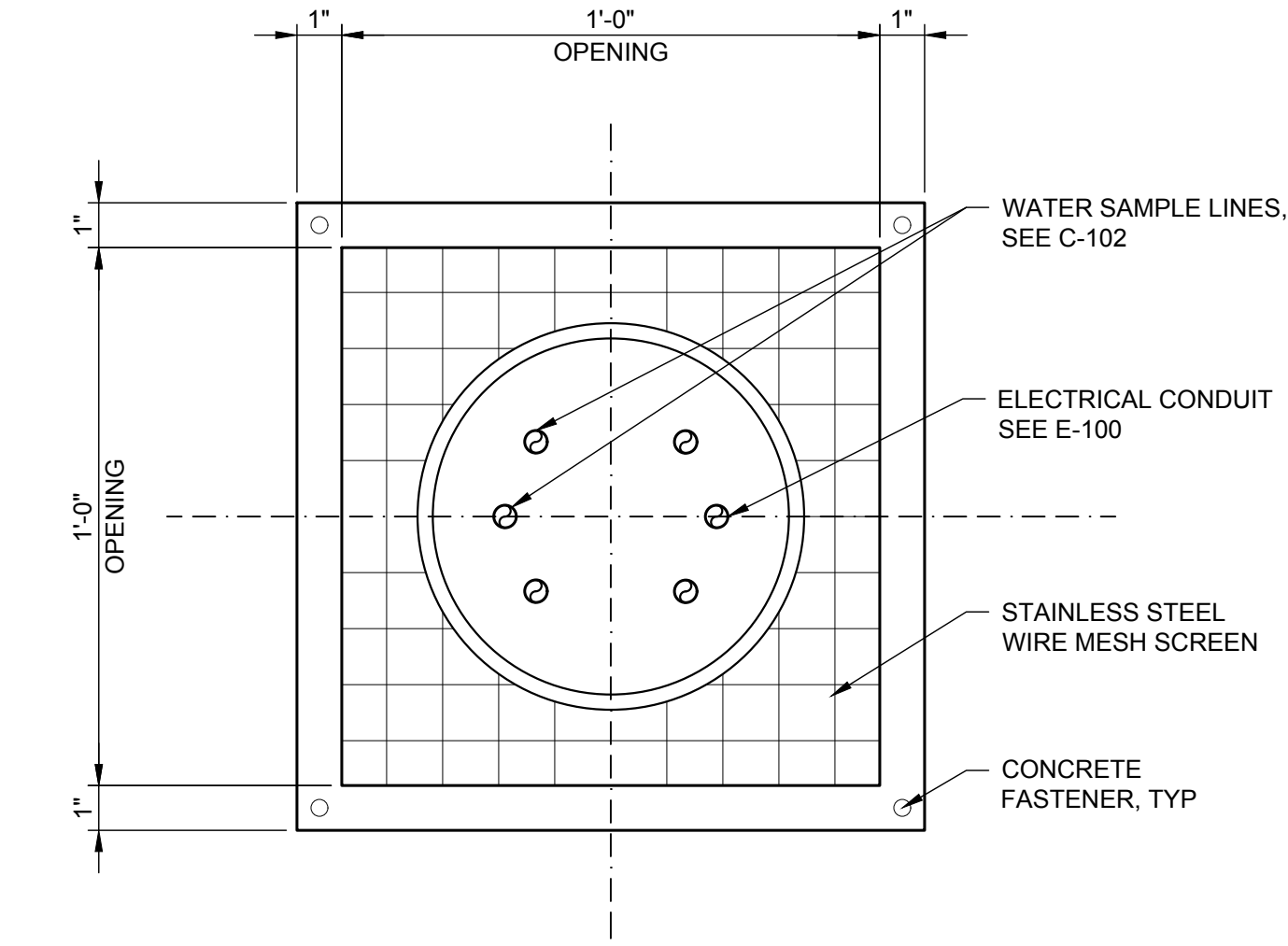
SHEET TITLE

GAC - PLAN & SECTIONS

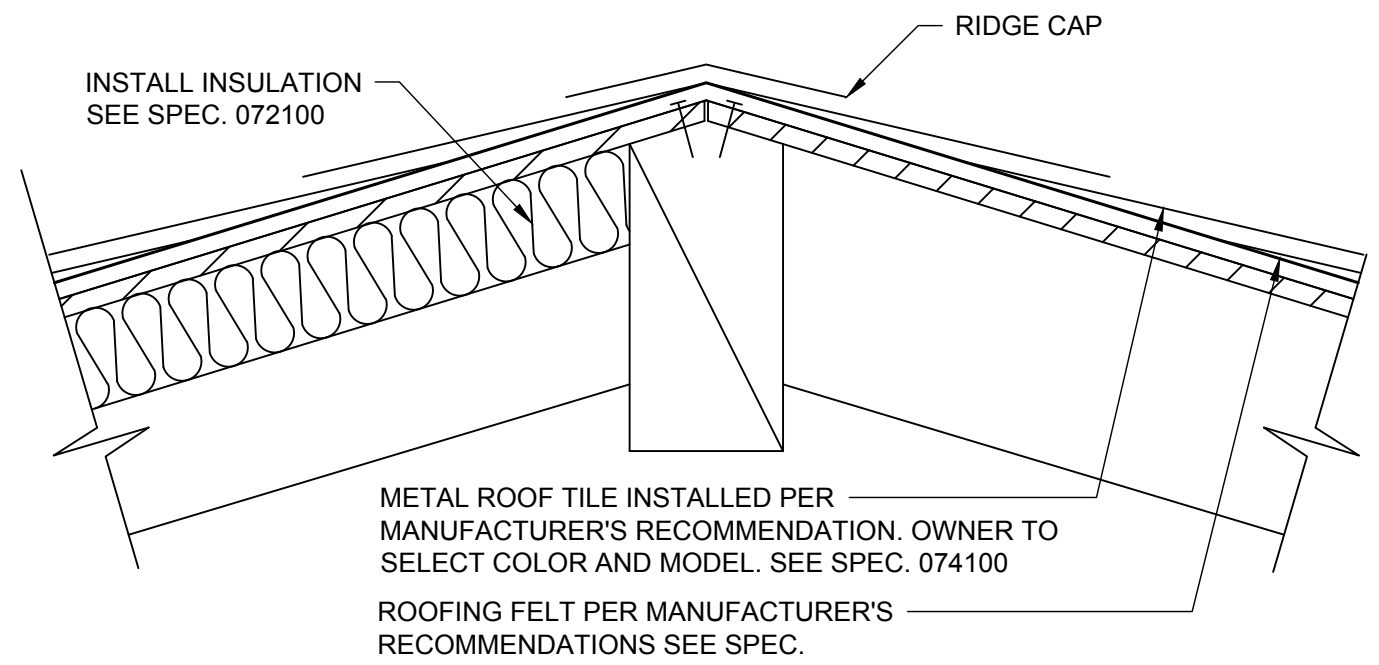
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SHEET NUMBER

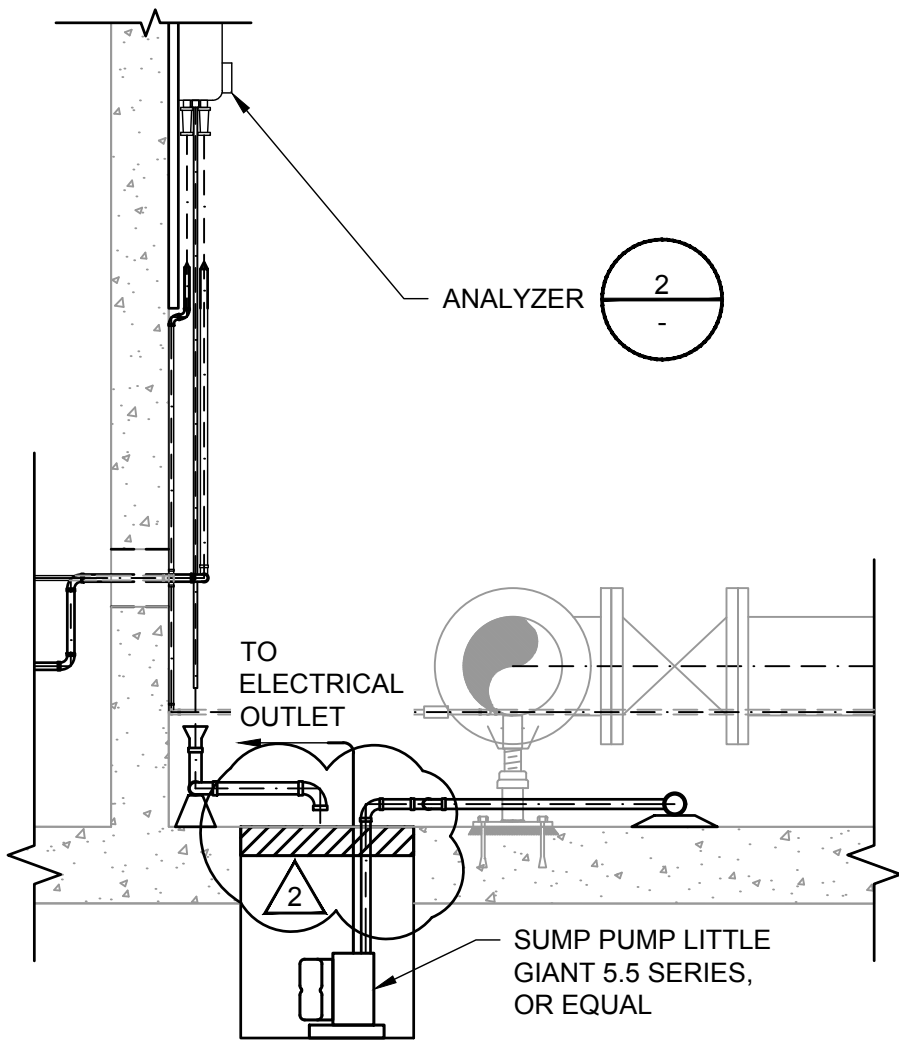
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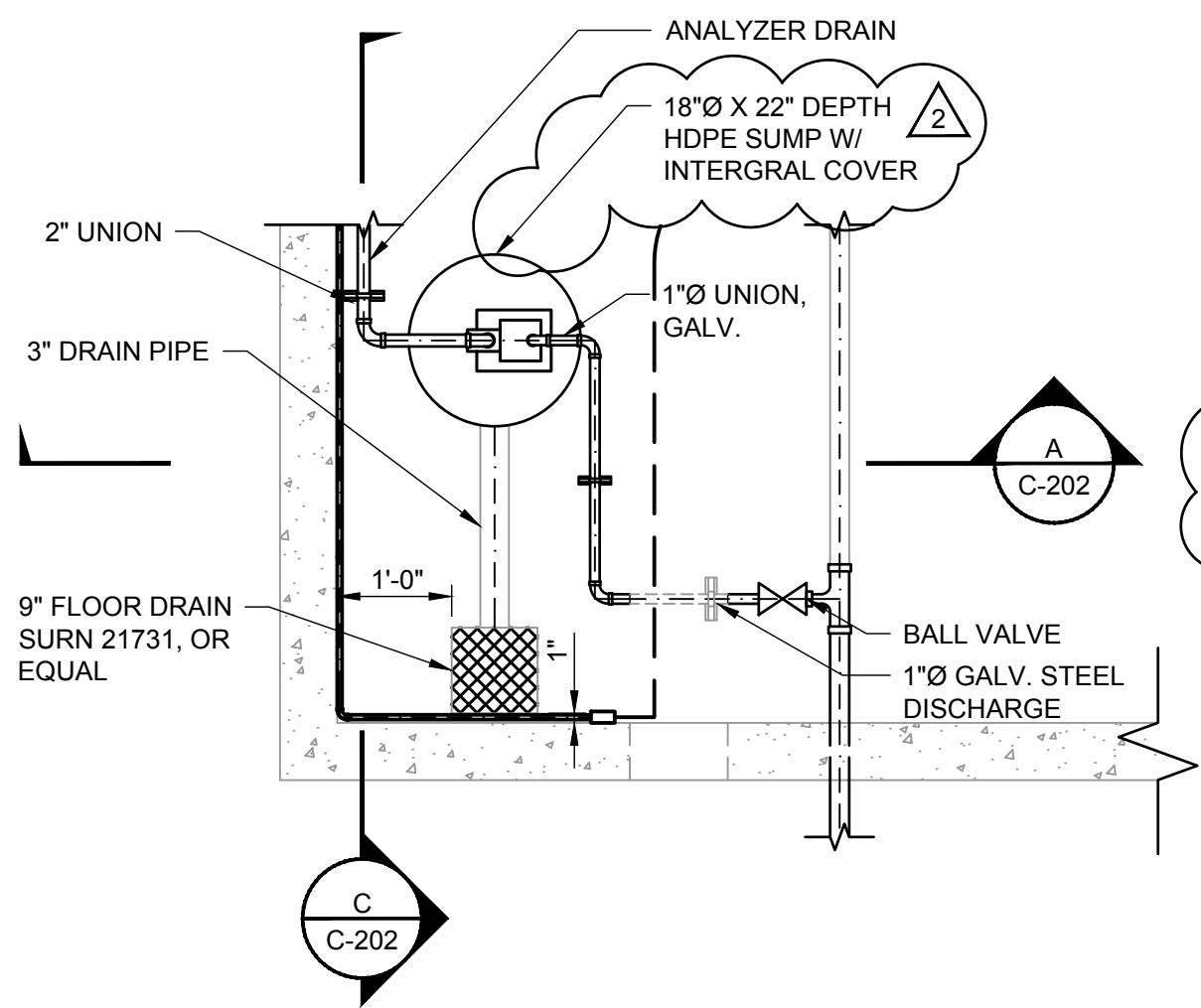
1 PIPE SCREEN DETAIL
SCALE: NTS



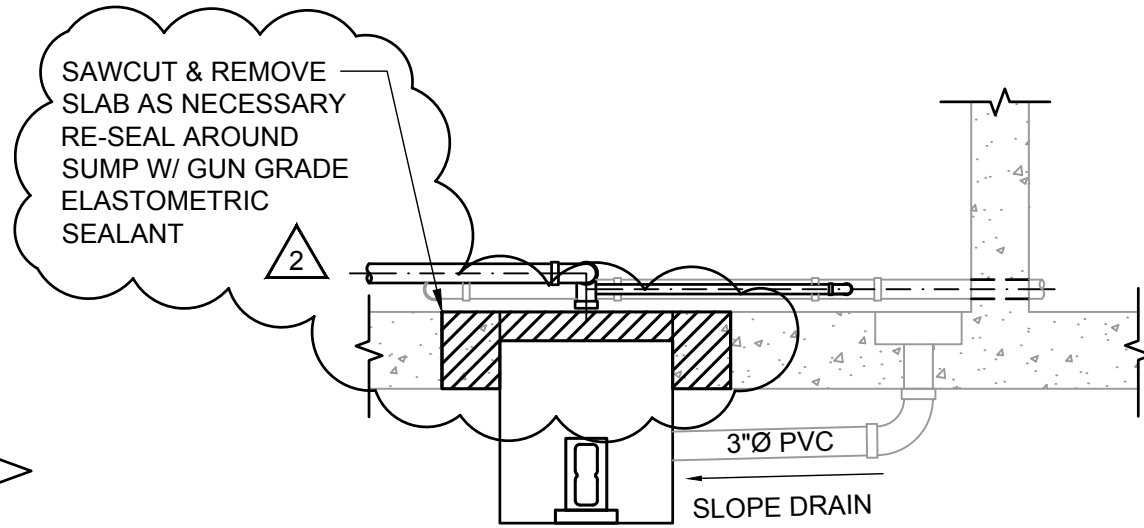
3 REROOFING DETAIL
SCALE: NTS



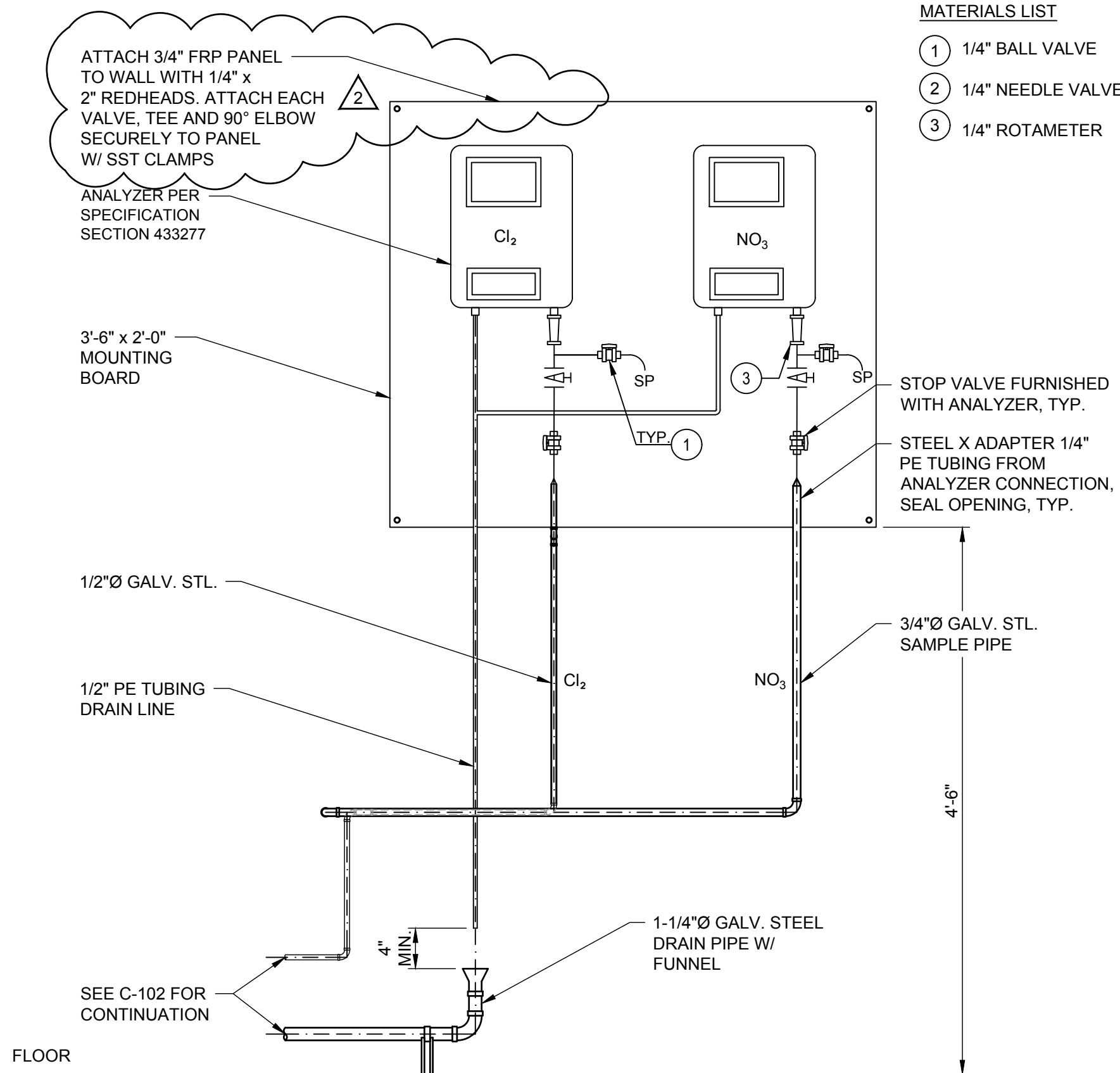
A SUMP PUMP SECTION
SCALE: NTS



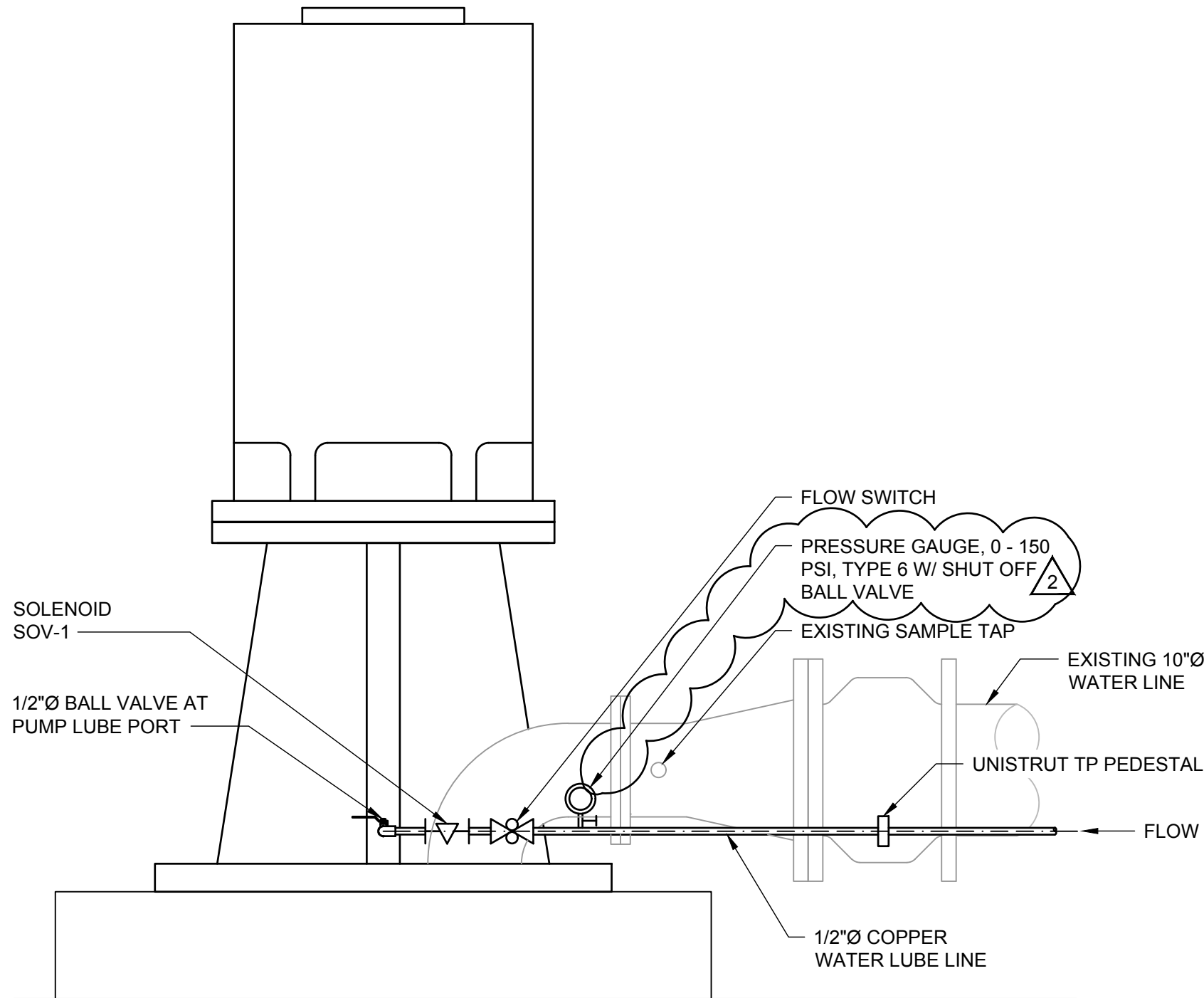
B SUMP PUMP
SCALE: NTS



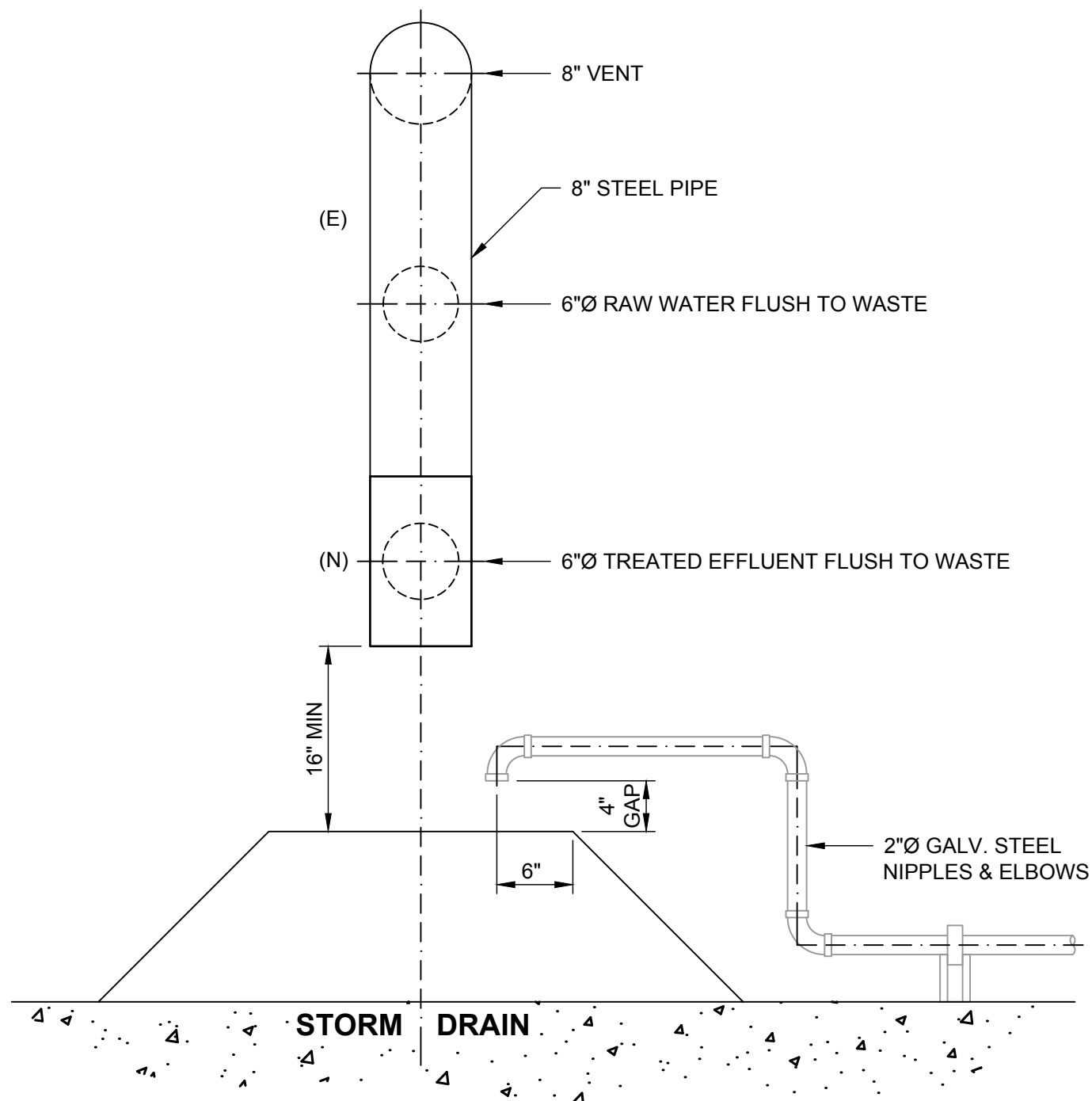
C SUMP PUMP SECTION
SCALE: NTS



2 TYPICAL ANALYZER DETAIL
SCALE: NTS



4 PRELUBE CONNECTION AT WELL
SCALE: NTS



D STORM DRAIN SECTION
SCALE: NTS

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PROJECT

CITY OF TURLOCK
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REHABILITATION
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SHEET TITLE

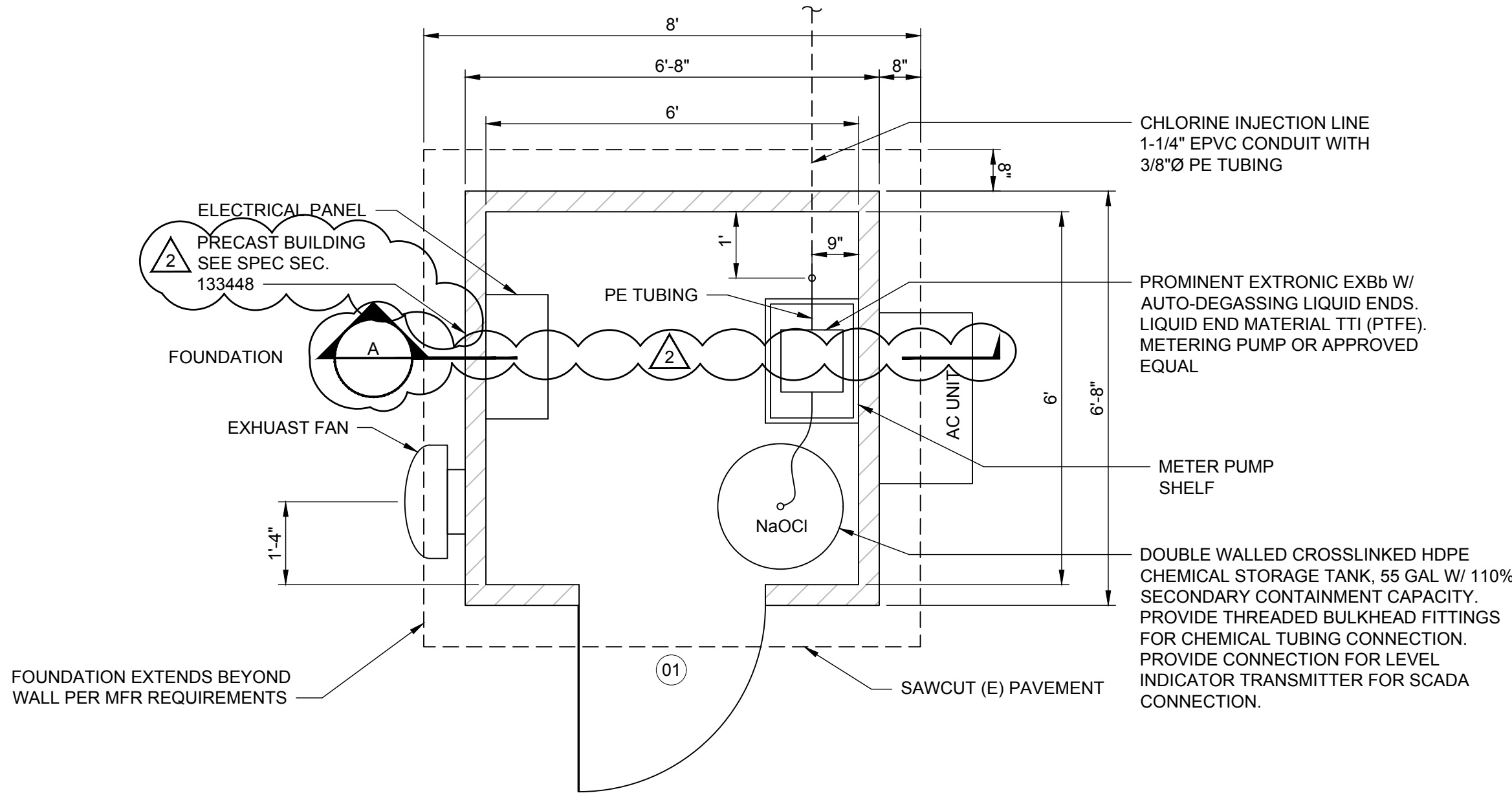
MISCELLANEOUS DETAILS 1

ADDENDUM NO. 1

SHEET NUMBER

C-202

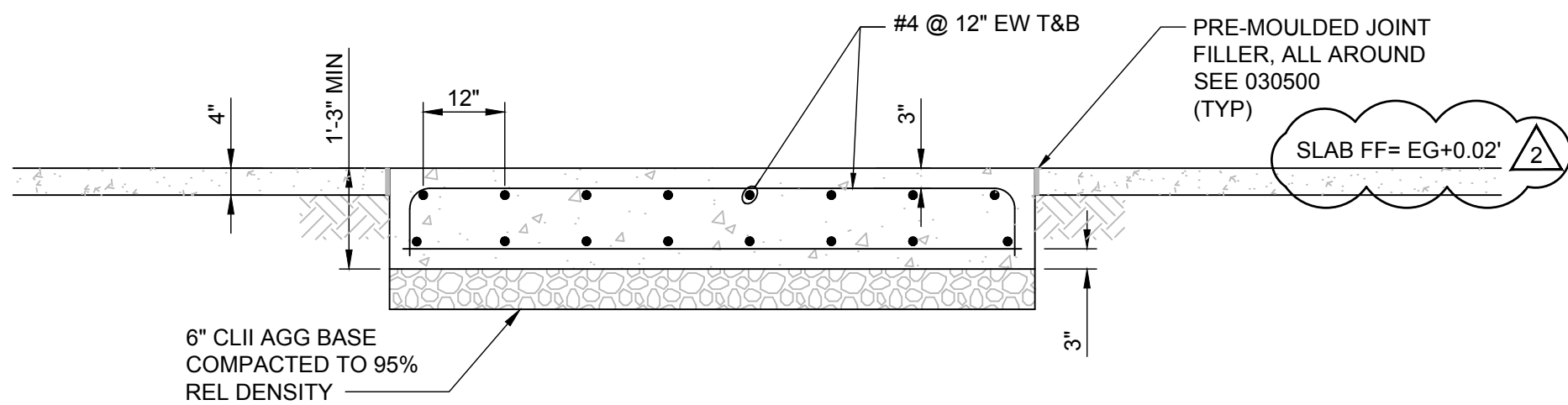
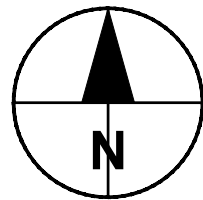
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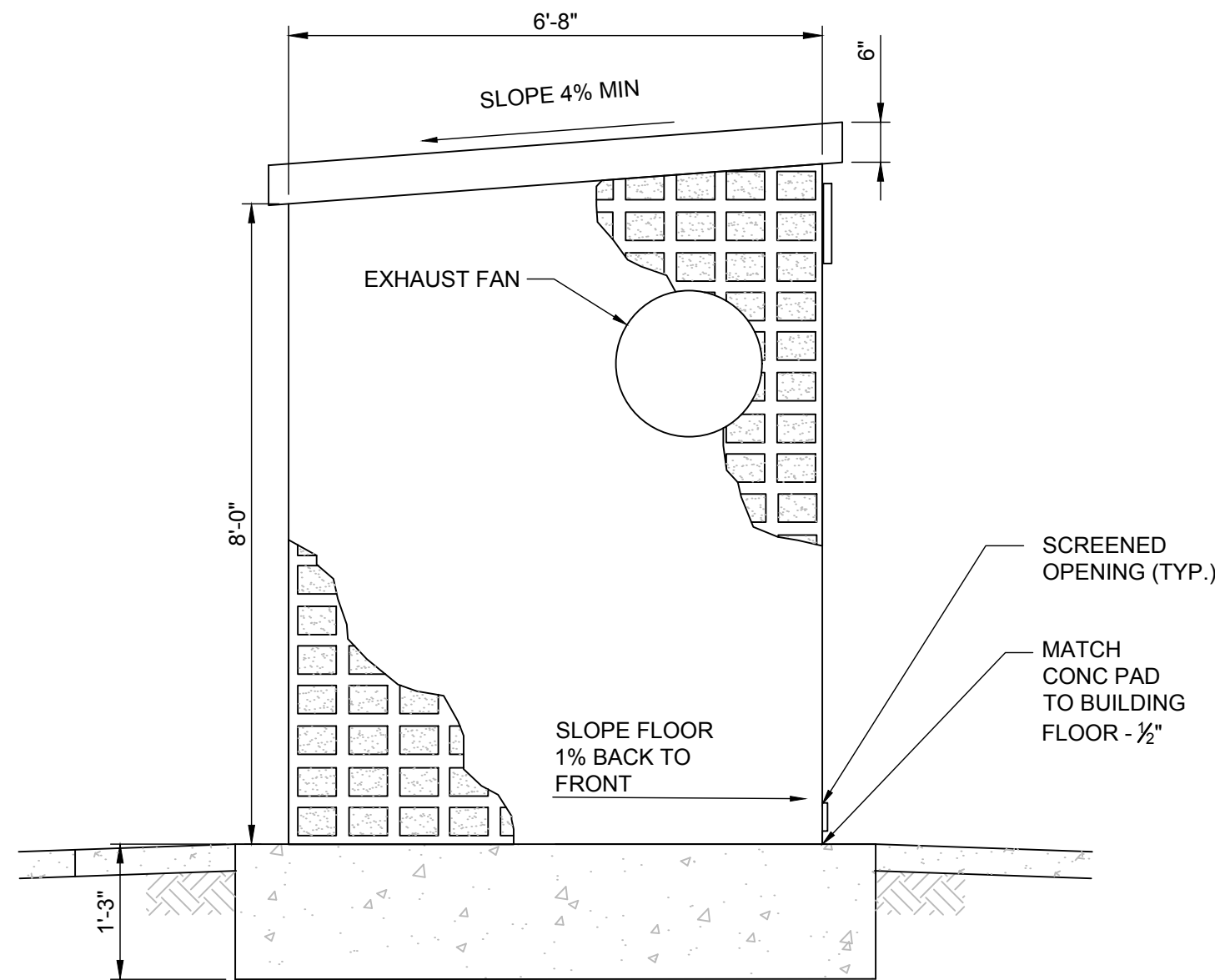
NOTES:

- SEE SPEC 133448 FOR PRECAST BUILDING REQUIREMENTS.
- ANCHOR BUILDING TO CAST-IN-PLACE FOUNDATION PER PRECAST BUILDING MANUFACTURERS RECOMMENDATION.
- PRECAST BUILDING MFR TO PROVIDE WALL CUT-OUTS FOR PIPE PENETRATIONS AS NECESSARY.
- ALL FASTENERS SHALL BE TITANIUM PER 434127 PART 2.F

1 | FLOOR PLAN
SCALE: 1/2" = 1' - 0"



A | FOUNDATION DETAIL
SCALE: 1/2" = 1' - 0"

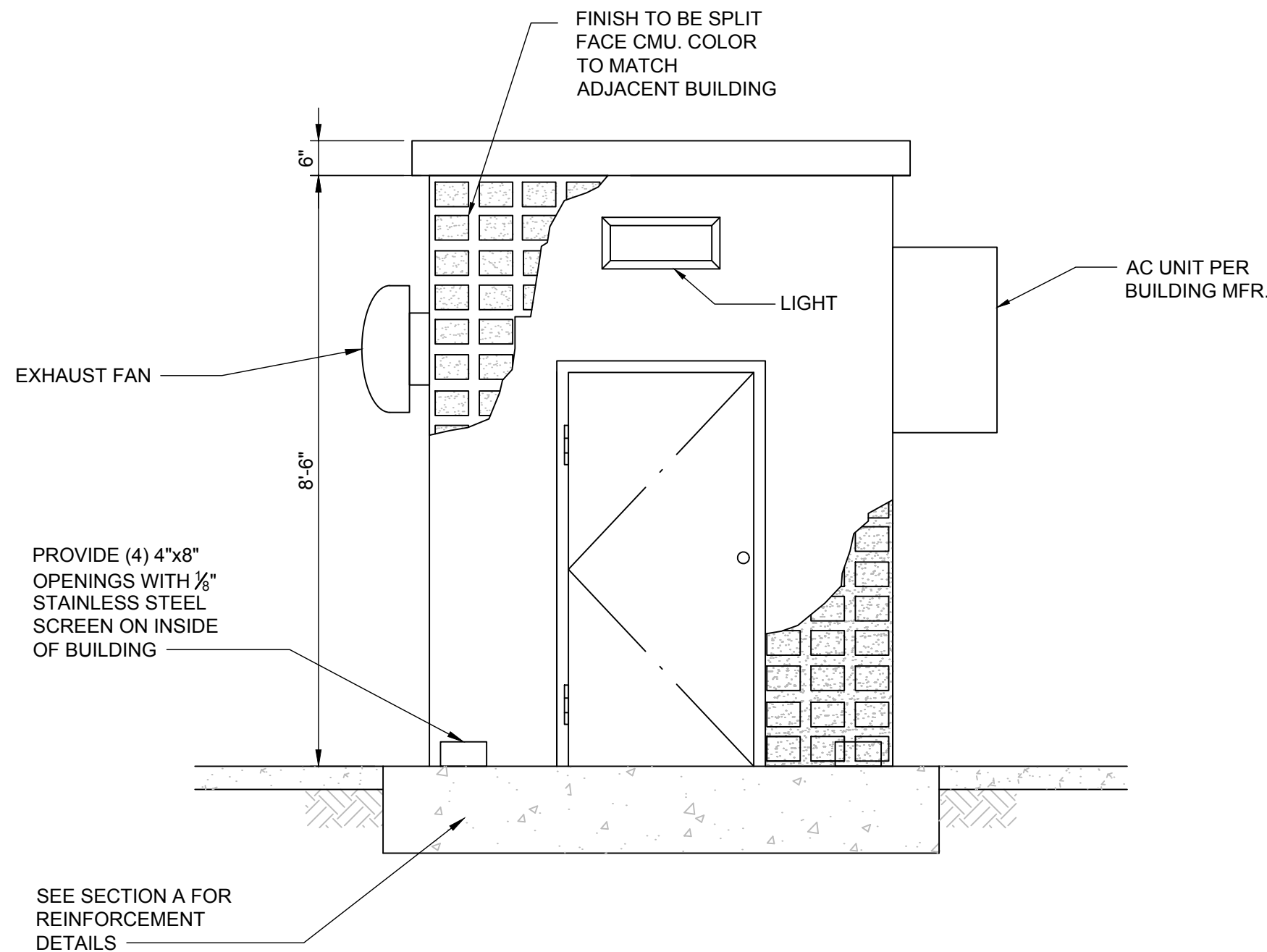


2 | WEST ELEVATION
SCALE: 1/2" = 1' - 0"

DOOR AND FRAME SCHEDULE

NUMBER	SIZE	THK.	TYPE	FACE	CORE	CLOSER	THRSH	HDWR	FRAME MAT'L	REMARKS
01	3'x7'	1 3/4"	B	METAL	MINERAL	*		1	HM	SINGLE DOOR

NOTE: SCHEDULE DOOR SIZE DOES NOT INCLUDE FRAME



3 | SOUTH ELEVATION
SCALE: 1/2" = 1' - 0"

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1	2018-11-02	BID SET
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KEY PLAN

PROJECT NUMBER

60566889

SHEET TITLE

NEW CHEMICAL BUILDING
PLAN & ELEVATIONS

ADDENDUM NO. 1

SHEET NUMBER

C-204

CONDUIT NUMBER	FROM	TO	CONDUIT SIZE	CONDUCTORS						REMARKS
				POWER WIRING		CONTROL WIRING		GROUND WIRING		
				No.	SIZE	No.	SIZE	No.	SIZE	
P-01	EXISTING UTILITY METER	EXISTING PULLBOX	-	3	#3/0			1	#6	USE EXISTING CONDUIT
P-02	EXISTING PULLBOX	VFD	2"	3	#2/0			1	#6	
P-03	VFD	WELL MOTOR	2"	3	#2/0			1	#6	VFD CABLES
P-04	PULLBOX	20A CIRCUIT BREAKER	3/4"	2	#12			1	#12	
P-05	20A CIRCUIT BREAKER	XFMR. "X"	3/4"	2	#10			1	#10	
P-06	PULLBOX	20A CIRCUIT BREAKER	3/4"	2	#12			1	#12	
P-07	20A CIRCUIT BREAKER	XFMR. "T1"	3/4"	2	#12			1	#12	
P-08	XFMR. "T1"	PANEL "A"	3/4"	3	#8			1	#10	
P-09	PANEL "A"	JUNCTION BOX	1"	4	#12			1	#12	
P-10	JUNCTION BOX	MTR ACTUATOR (BFV-02)	3/4"	2	#12			1	#12	
P-11	PANEL "A"	PANEL "B"	3/4"	3	#10			1	#10	CIRCUIT A-6,8 FOR PANEL "B"
P-12	PANEL "A"	RECEPTACLE AT SUMP PUMP	3/4"	2	#12			1	#12	CIRCUIT A-1 FOR SUMP PUMP
P-13	JUNCTION BOX	MOTOR ACTUATOR (BFV-01)	3/4"	2	#12			1	#12	
D-01	NEW ICP	NaOCL CONTROL PANEL	3/4"			8	#14	1	#14	
D-02	NEW VFD	WELL MOTOR	1"	2	#12	8	#14	1	#12	PSHL-111, MOTOR TEMP. SWITCH (TSH), FLOW SWITCH, MOTOR SPACE HEATER, SOV-1
D-03	JUNCTION BOX	ZS-121A, HS-121C	3/4"			10	#14	1	#14	MOTOR ACTUATOR (BFV-01)
D-04	NEW ICP	JUNCTION BOX	1"			20	#14	1	#14	(BFV-01 AND BFV-02)
D-05	NEW ICP	FSH-211	3/4"			2	#14	1	#14	
D-06	NEW ICP	VFD	1"			12	#14	1	#14	
D-08	NEW ICP	JUNCTION BOX	3/4"			4	#14	1	#14	FS-207, LS-203
D-09	FS-207	LS-203	3/4"			2	#14	1	#14	
D-10	FS-997	NEW ICP	3/4"			2	#14	1	#14	
D-11	ZS-999	NEW ICP	3/4"			2	#14	1	#14	
D-12	JUNCTION BOX	ZS-123A, HS-123C	3/4"			10	#14	1	#14	MOTOR ACTUATOR (BFV-02)
D-13	JUNCTION BOX	FS-207	3/4"			2	#14	1	#14	
A-01	NEW ICP	FIT-113	3/4"			1	#18 TSP			
A-03	NEW ICP	NaOCL CONTROL PANEL	3/4"			1	#18 TSP			
A-04	NEW ICP	PIT-119	3/4"			1	#18 TSP			
A-05	NEW ICP	AE/AIT-117	3/4"			1	#18 TSP			
A-06	NEW ICP	AE/AIT-115	3/4"			1	#18 TSP			
A-07	NEW ICP	LIT-201	3/4"			1	#18 TSP			
A-08	NEW PLC	VFD	1"			2	#18 TSP			

NAMEPLATE	PANEL "A"					LOC.	SURFACE					MAIN	40A/2P C/B				
BUS:AMPS	100					VOLTS	120/240V, 1Ø, 3W					RATING	10,000 AIC(S)				

	VA		OUTLETS			20A C/B'S UON		OUTLETS			VA		
	A	B	LTG	REC	MISC			LTG	REC	MISC	A	B	
SUMP PUMP	696					1	2			1	400		MOTOR ACTUATOR (BFV-01)
CHLORINE ANALYZER (AIT-217)		200			1	3	4			1		400	MOTOR ACTUATOR (BFV-02)
NITRATE ANALYZER (AIT-211)	200				1	5	6			1	1000		PANEL "B"
SPARE						7	8					1000	
						9	10						
↓						11	12						↓
TOTAL LOAD	896	200									1400	1400	TOTAL LOAD

3.9	KW + .25 X	0	KW	3.9	KW	240	VOLTS	1PH=	16	AMPS
-----	------------	---	----	-----	----	-----	-------	------	----	------

NAMEPLATE	PANEL "B"		LOC.		SURFACE		MAIN		20A/2P C/B	
BUS:AMPS	100		VOLTS		120/240V, 1Ø, 3W		RATING		10,000 AIC(S)	

	VA		OUTLETS			20A C/B'S UON		OUTLETS			VA		
	A	B	LTG	REC	MISC	1	2	LTG	REC	MISC	A	B	
RECEPTACLE	180			1		1	2			1	100		EXHAUST FAN
LIGHTS		200	1			3	4					750	A/C UNIT
NaOCL METERING PUMP	200					5	6			1	750		
SPARE						7	8						SPARE
						9	10						
↓						11	12						↓
TOTAL LOAD	380	200									850	750	TOTAL LOAD

2.2	KW + .25 X	0.5	KW	2.7	KW	240	VOLTS	1PH=	11	AMPS
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NAMEPLATE	EXISTING PANEL "X"			LOC.	SURFACE			MAIN	20A/2P C/B		
BUS:AMPS	100			VOLTS	120/240V, 1Ø, 3W			RATING	10,000 AIC(S)		

	VA		OUTLETS			15A C/B'S UON		OUTLETS			VA		
	A	B	LTG	REC	MISC	1	2	LTG	REC	MISC	A	B	
HEAT LAMP	200			1		1	2			1	300		EXISTING LOAD
CHART RECORDER		100	1			3	4			1		200	EXISTING LOAD
EXISTING CONTROL PANEL	500					5	6			1	200		EXISTING LOAD
OUTLET		180				7	8			1		200	EXISTING LOAD
SPARE						9	10						SPARE
↓						11	12						↓
TOTAL LOAD	700	280									500	400	TOTAL LOAD

1.9	KW + .25 X	0	KW	1.9	KW	240	VOLTS	1PH=	8	AMPS
-----	------------	---	----	-----	----	-----	-------	------	---	------

* LOAD WAS ESTIMATED



PROJECT

CITY OF TURLOCK
WELL 8 GAC SYSTEM
REHABILITATION
/RESTART

1690 PALMER DRIVE
TURLOCK, CA 95382

CLIENT

CITY OF TURLOCK

156 S. BROADWAY AVE. SUITE 270,
TURLOCK, CA 95380



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ISSUE/REVISION

2	2018-11-21	ADDENDUM NO. 1
1	2018-11-02	BID SET
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60566689

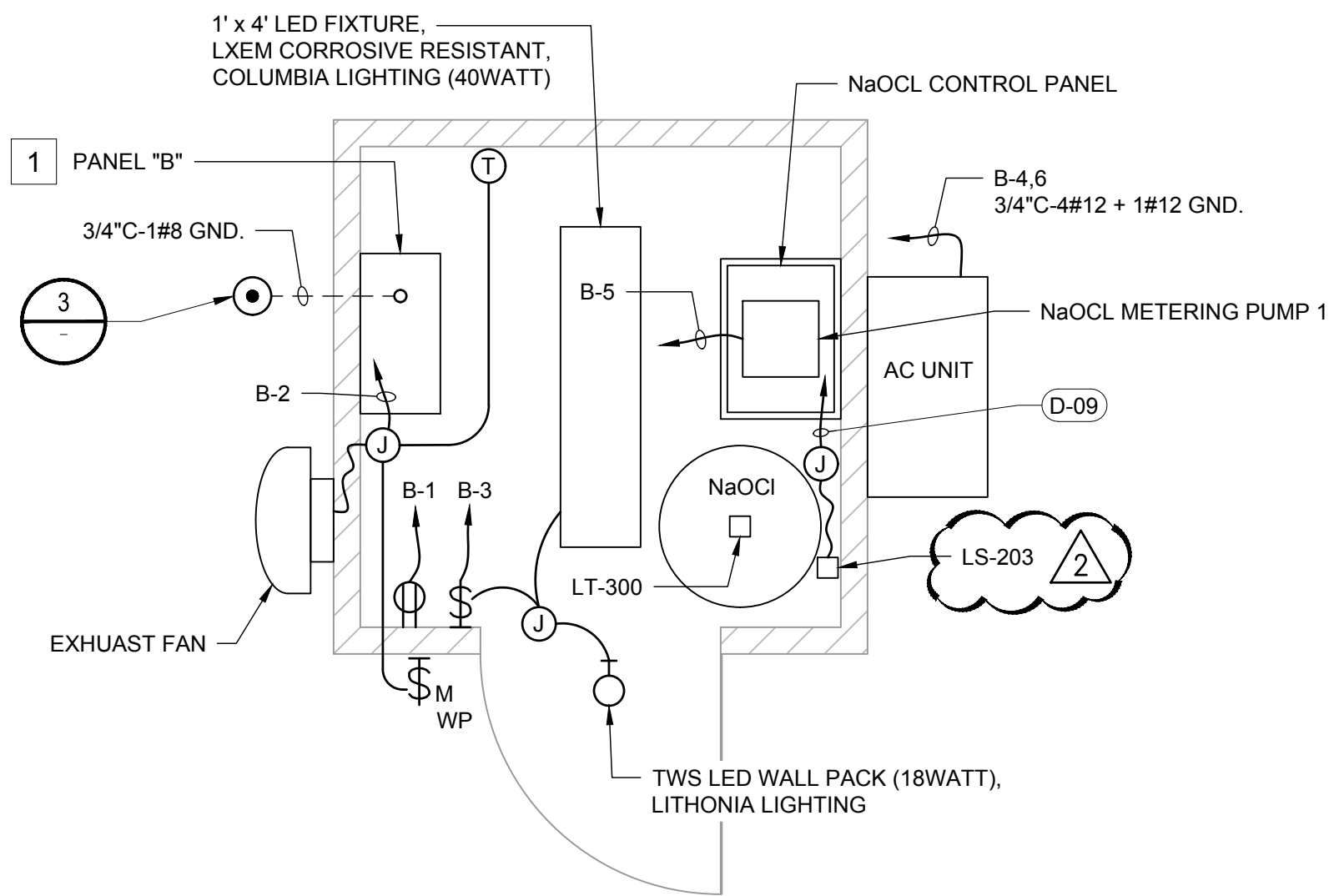
SHEET TITLE

CONDUIT SCHEDULE

ADDENDUM NO. 1

SHEET NUMBER

E-103

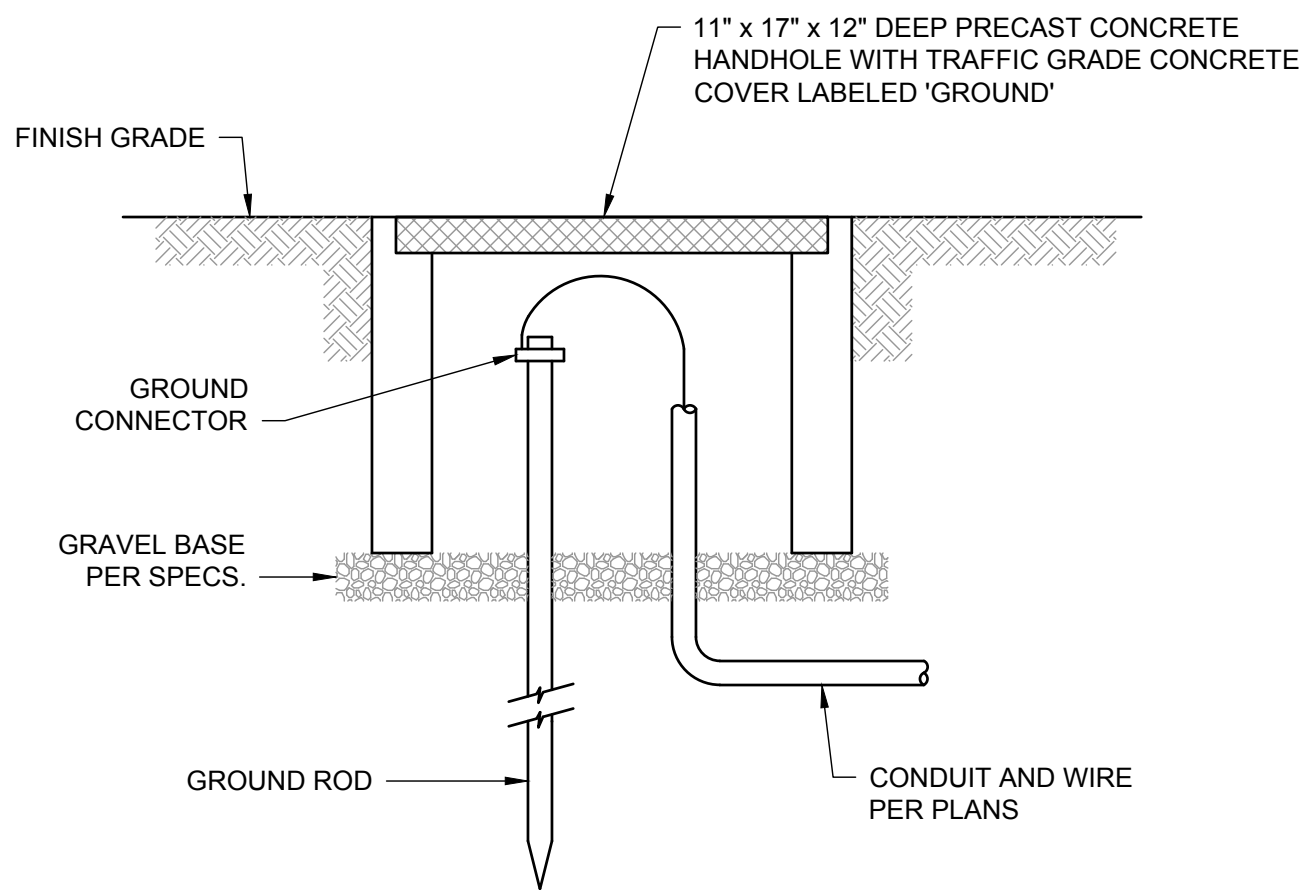


1 CHEMICAL ROOM ELECTRICAL PLAN

SCALE: 1/2" = 1' - 0"

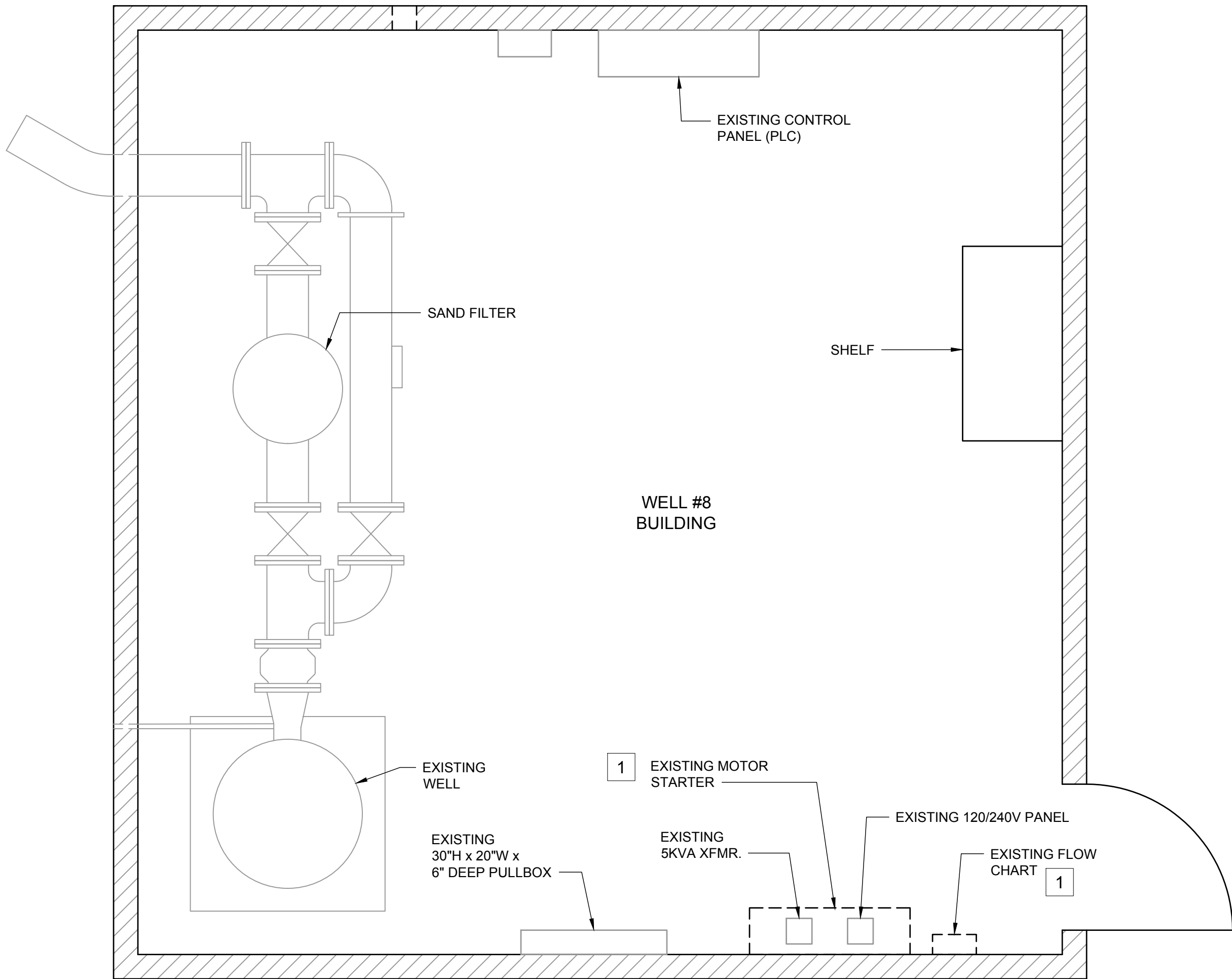
NOTES:

- 1 PROVIDE POWER CONNECTIONS TO BUILDING RECEPTACLES, LIGHTS, AC UNIT, EXHAUST FAN, AND NaOCl CONTROL PANEL.



3 GROUND WELL DETAIL

SCALE: NTS

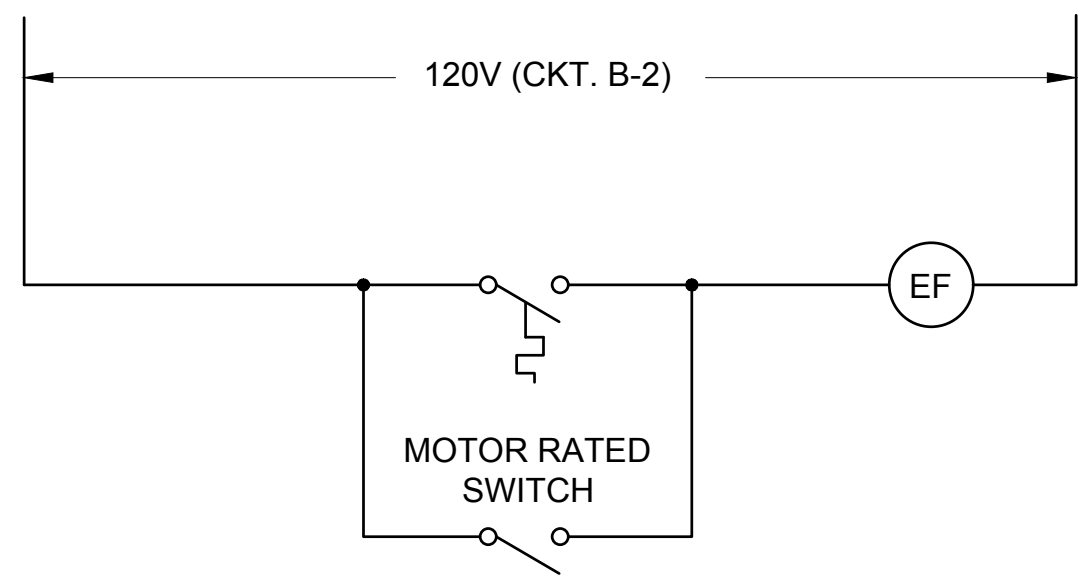


2 ELECTRICAL DEMOLITION PLAN

SCALE: 1/2" = 1' - 0"

NOTES:

- 1 REMOVE ELECTRICAL EQUIPMENT INCLUDING CONDUIT AND WIRE. SEE NOTE 1 ON SHEET C-101.



4 CHEMICAL ROOM EXHAUST FAN CONTROL SCHEMATIC

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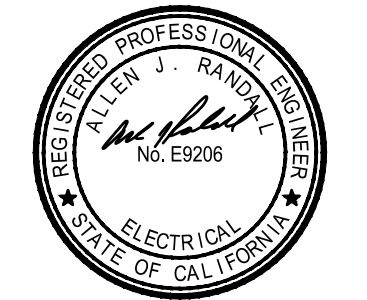


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SHEET TITLE

ELECTRICAL DETAILS

ADDENDUM NO. 1

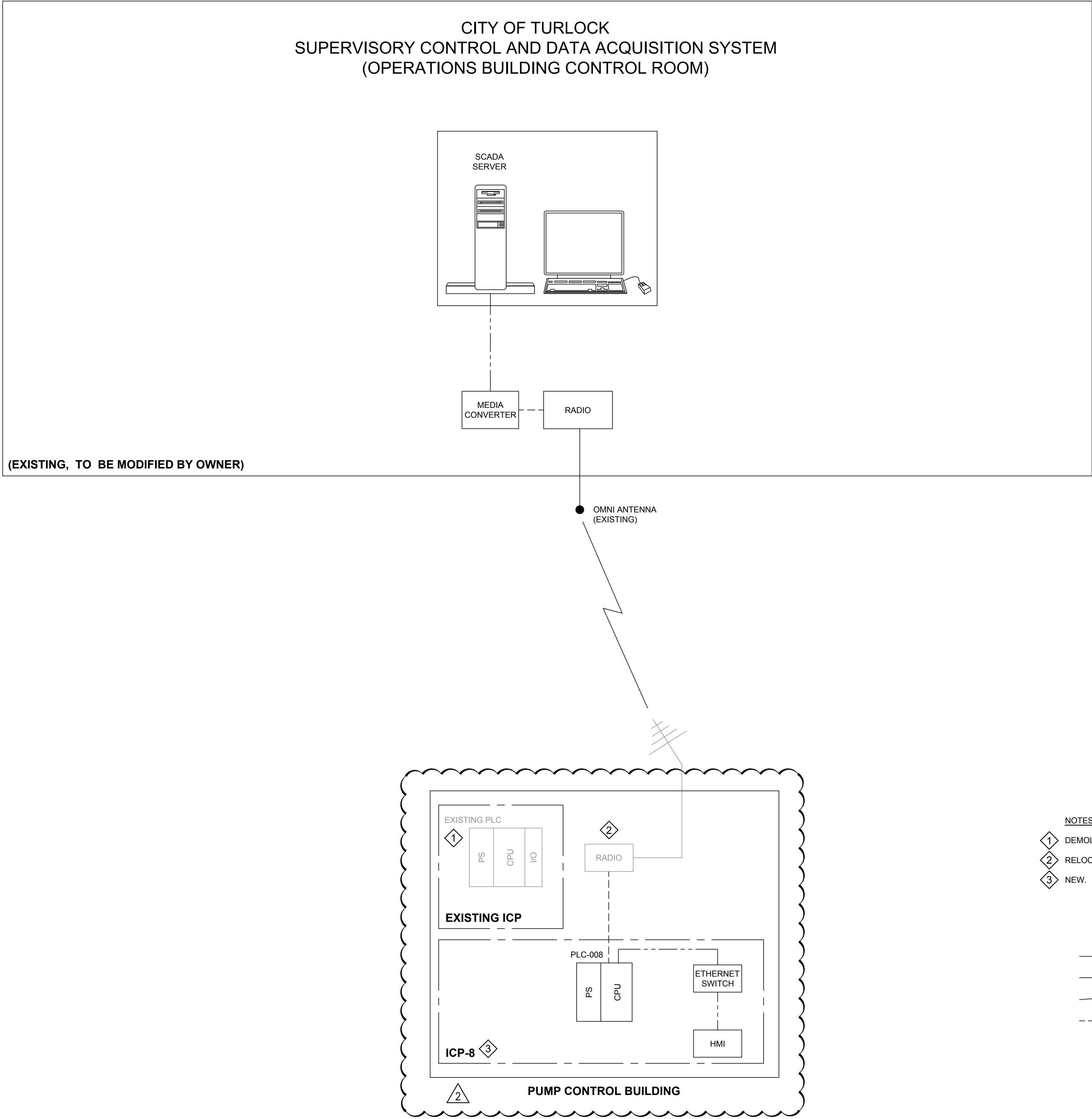
SHEET NUMBER

E-104

ANSI D 22" x 34" Approved: _____ Checked: _____ Designer: _____ Project Management Initials: _____

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- NOTES:
- 1 DEMOLISH EXISTING ICP AND DELIVER IT TO OWNER.
 - 2 RELOCATE EXISTING RADIO TO ICP-8.
 - 3 NEW.

- WIRING LEGEND**
- ETHERNET/IP (WIRE)
 - HARDWIRE
 - RADIO SIGNAL (DATA)
 - - - - - SERIAL



PROJECT

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PROJECT NUMBER

60566689

SHEET TITLE

COMMUNICATIONS BLOCK
DIAGRAM

ADDENDUM NO. 1

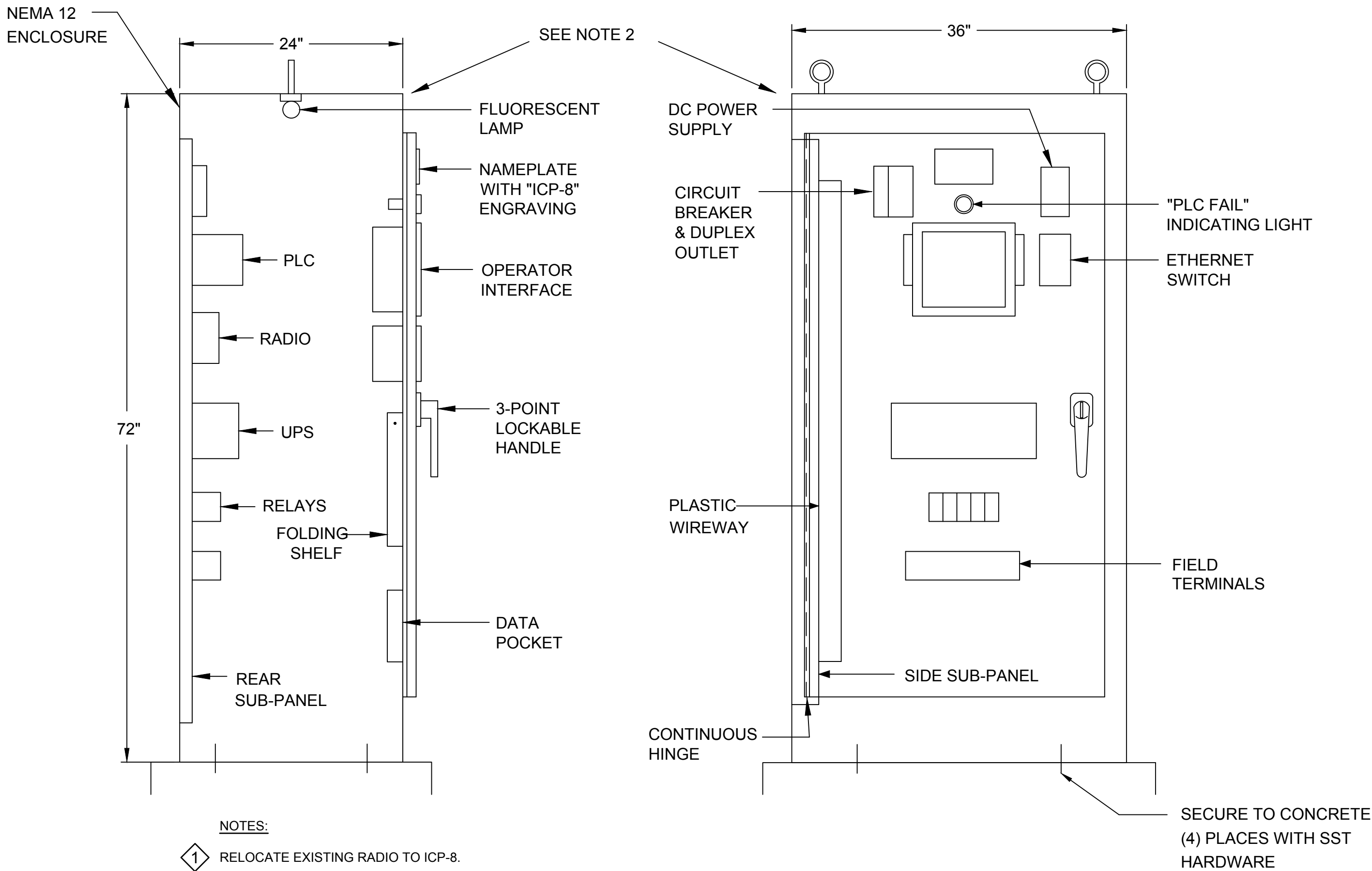
SHEET NUMBER

N-002

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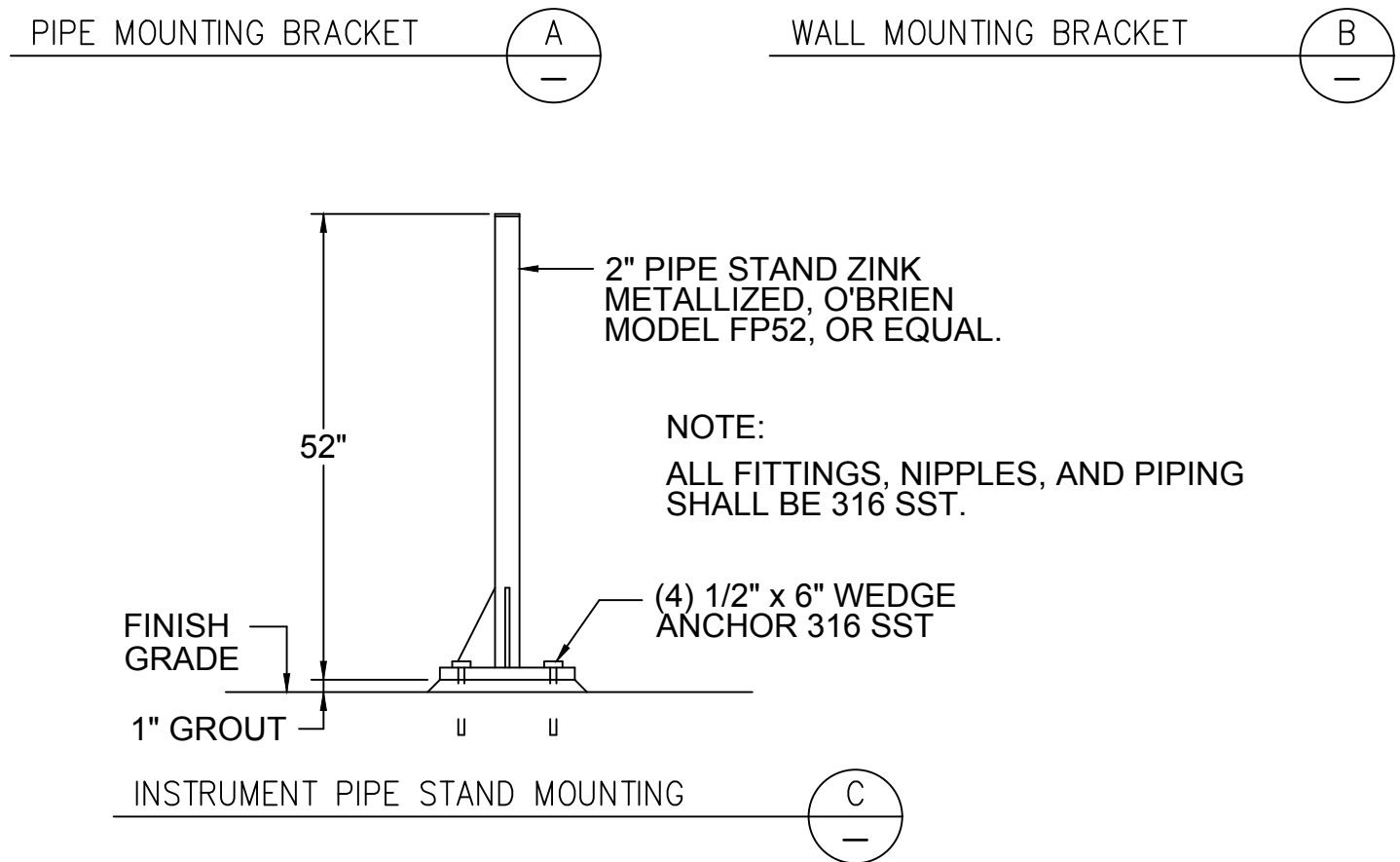
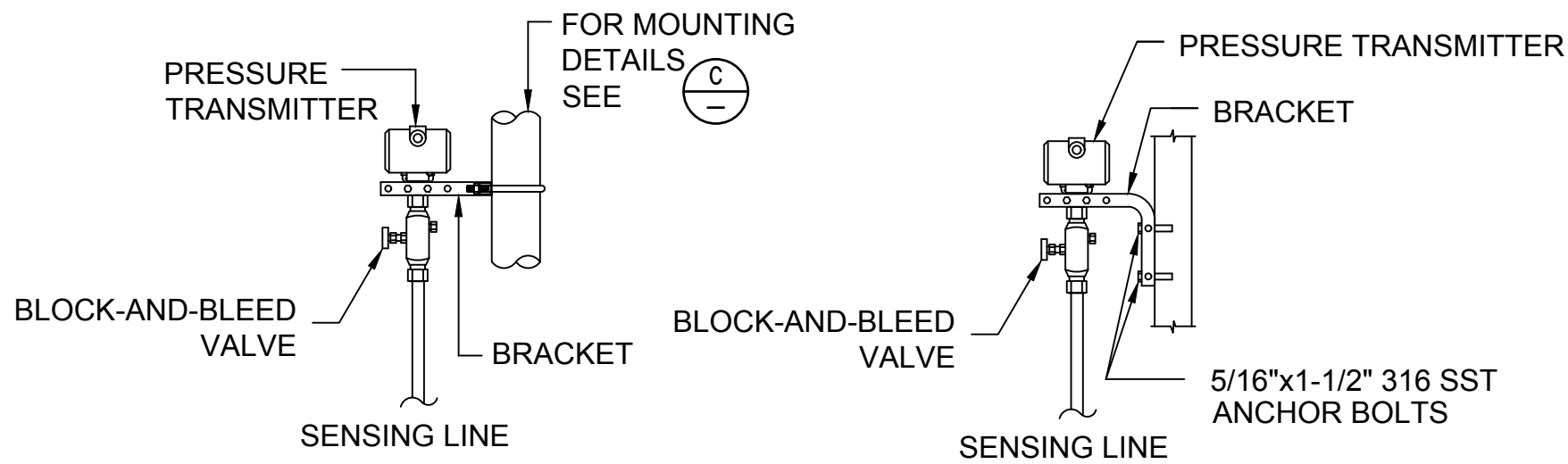
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- NOTES:
- 1. RELOCATE EXISTING RADIO TO ICP-8.
 - 2. TEMPERATURE CONTROL EQUIPMENT IS NOT SHOWN.

1 | **INSTRUMENT CONTROL PANEL (ICP)**
SCALE: NTS



2 | **PRESSURE TRANSMITTER MOUNTING**
SCALE: NTS

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CITY OF TURLOCK
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/RESTART

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CLIENT

CITY OF TURLOCK

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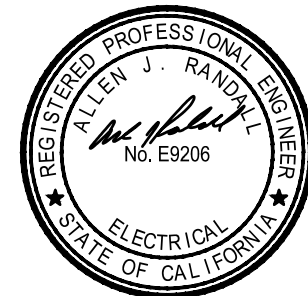
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SHEET TITLE

INSTRUMENTATION DETAILS

ADDENDUM NO. 1

SHEET NUMBER

N-501

Project Management Initials: _____ Designer: _____ Checked: _____ Approved: _____
ANSI D 22" x 34"

PLC-008

SCS (NOTE 1)

WELL CONTROL LOGIC

FLUSHING MODE LOGIC

WELL PUMP VFD (SEE DWG. E-105)

WELL PUMP

PRE-LUBE

GAC SKID #1

NITRATE

TO DISTRIBUTION

FROM NaOCI FEED SYSTEM

BW TO WASTE

2

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- NOTES:
1. EXISTING, TO BE MODIFIED BY OWNER
- 2 READY
- 3 SPEED COMMAND
- 4 SPEED FEEDBACK

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WELL 8 GAC SYSTEM
REHABILITATION
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6056689

SHEET TITLE

GAC TREATMENT P&ID

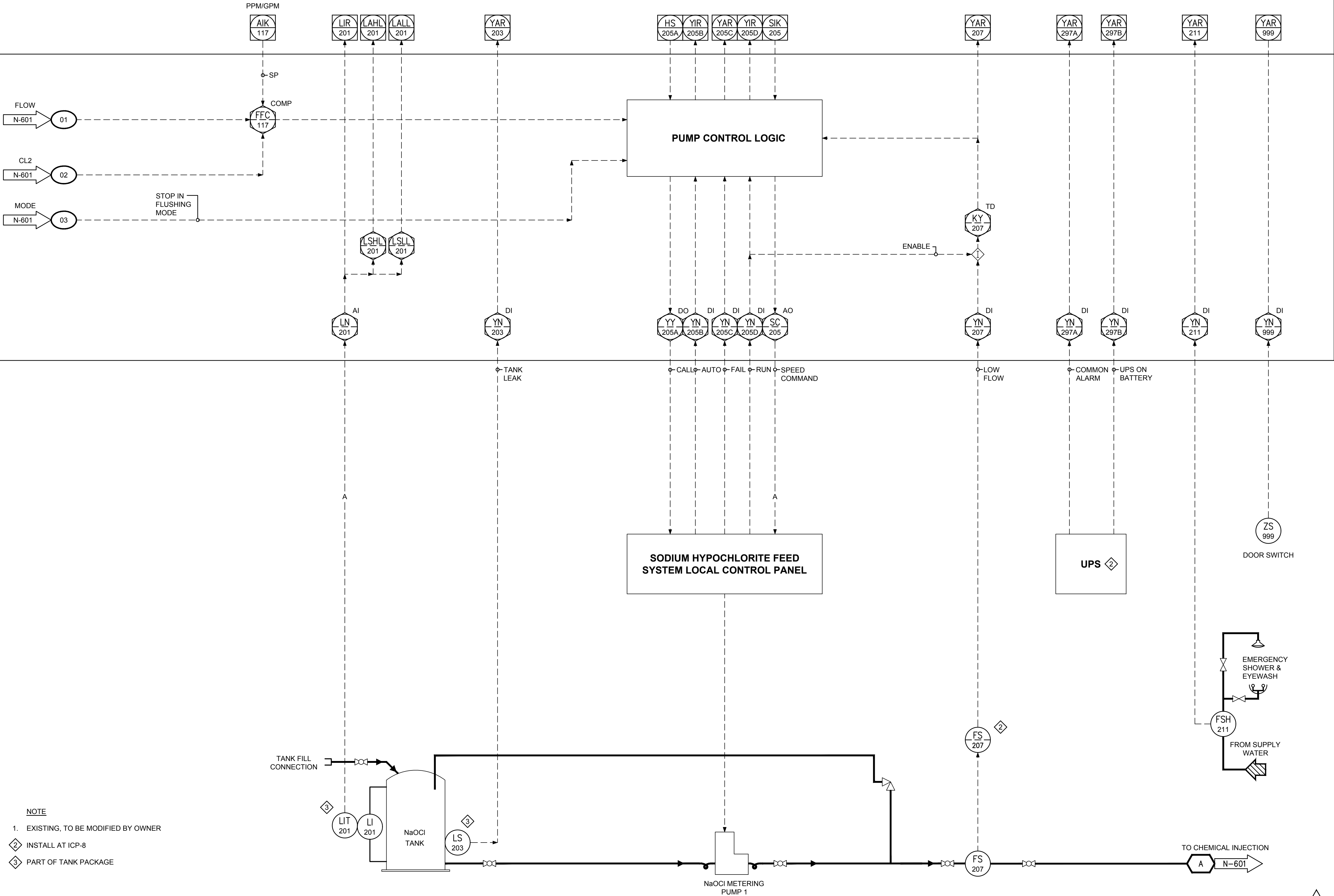
ADDENDUM NO. 1

SHEET NUMBER

N-601

SCS
(NOTE 1)

PLC -008



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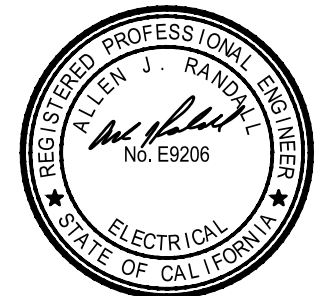
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PROJECT NUMBER

60566689

SHEET TITLE

CHEMICAL FEED SYSTEM P&ID

ADDENDUM NO. 1

SHEET NUMBER

N-602