

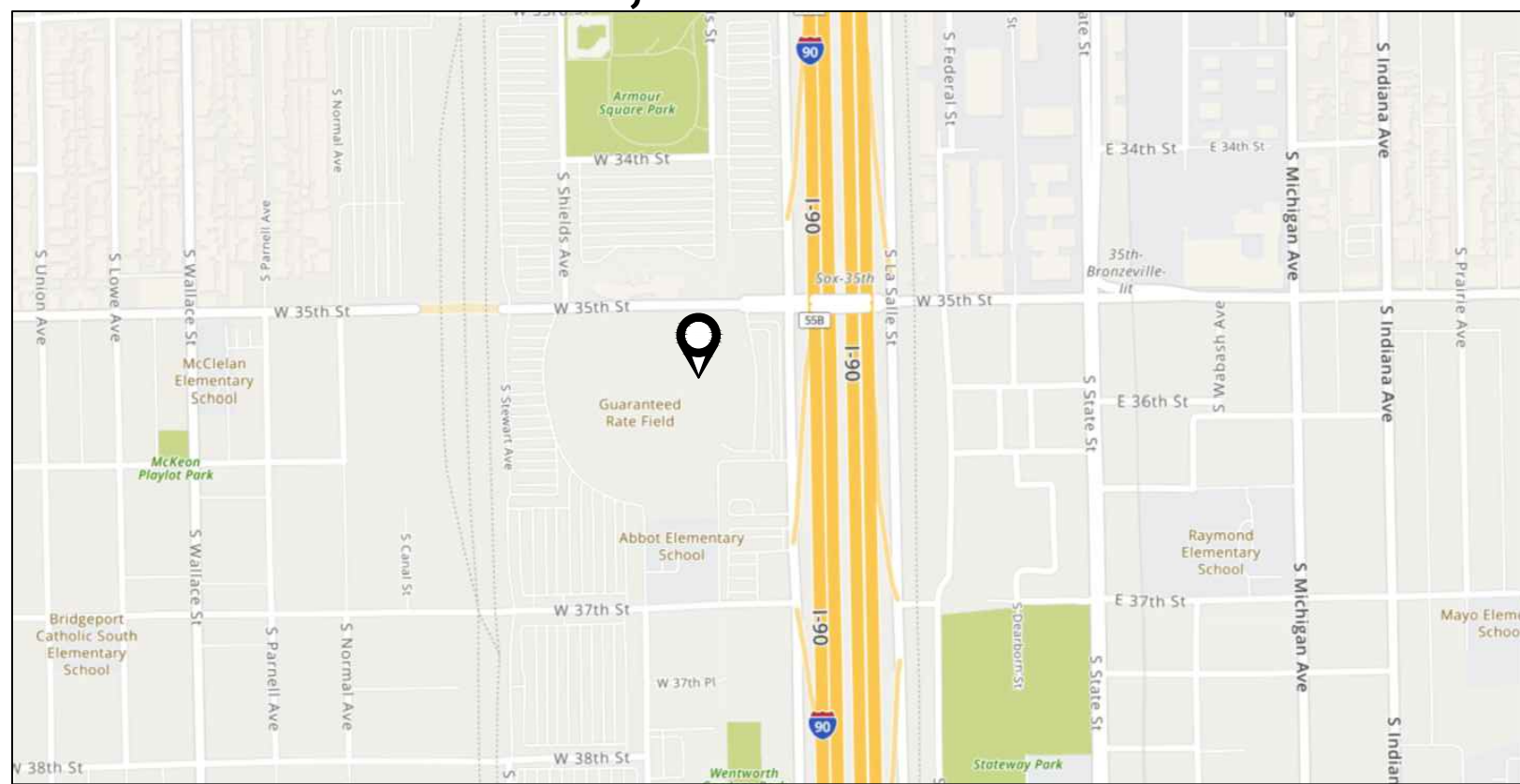
FSA - GUARANTEED RATE STADIUM - WASTE AND VENT PIPING PHASE X

333 W 35TH STREET
CHICAGO, ILLINOIS 60616

ABBREVIATIONS			
ACW	AUTOMATIC CLOTHES WASHER	KW	KITCHEN WASTE OR KILOWATT
AD	AREA DRAIN	L/LAV	LAVATORY
AF	ABOVE FINISHED FLOOR	LS	LAB SINK
AMP	AMPERE	LT	LAUNDRY TUB
ANB	ACID NEUTRALIZING BASIN	MB	MOP BASIN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MC	MECHANICAL CONTRACTOR
AP	ACCESS PANEL	MSS	MANUFACTURERS STANDARDIZATION SOCIETY
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	NC	NEW CONNECTION OR NORMALLY CLOSED
ASSE	AMERICAN SOCIETY OF SAFETY ENGINEERS	NI	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NPS	NOMINAL PIPE SIZE
AV	ACID/CHEMICAL WASTE	NPW	NON POTABLE WATER
AVTR	ACID/CHEMICAL VENT THRU ROOF	NO	NORMALLY OPEN
AW	ACID/CHEMICAL WASTE	NSF	NATIONAL SCIENCE FOUNDATION
BASC	BUILDING AUTOMATION SYSTEMS CONTRACTOR	NTS	NOT TO SCALE
BFP	BACKFLOW PREVENTER	OD	OVERFLOW DRAIN
BOP	BOTTOM OF PIPE	OSD	OPEN SITE DRAIN
BT	BATH TUB	OSAY	OUTSIDE STEM AND YOKE
CA	COMPRESSED AIR	P	PUMP
CI	CAST IRON	PA	PIPE ANCHOR
CISPI	CAST IRON SOIL PIPE INSTITUTE	PC	PLUMBING CONTRACTOR
CLS	CEILING	PD	PUMP DISCHARGE
CO	CLEANOUT	PDI	PLUMBING & DRAINAGE INSTITUTE
CONN	CONNECTION	PE	PROFESSIONAL ENGINEER
CW	DOMESTIC COLD WATER	PH	PHASE
DHW	DOMESTIC HOT WATER	PIV	PISTON INDICATOR VALVE
DHWR	DOMESTIC HOT WATER RETURN	PPM	PARTS PER MILLION
DTW	DOMESTIC TEMPERED WATER	PRV	PRESSURE REDUCING VALVE
DBCV	DOUBLE CHECK VALVE	PS	POUNDS PER SQUARE INCH
DCV	DUAL CHECK VALVE	PPM	PARTS PER MILLION
DDCV	DOUBLE CHECK DETECTOR ASSEMBLY	ORD	OVERFLOW ROOF DRAIN
DDCV	DOUBLE DETECTOR CHECK VALVE	RCP	RECIRCULATION PUMP
DF	DRINKING FOUNTAIN	RD	ROOF DRAIN
DFU	DRAINAGE FIXTURE UNIT	RH	ROOF HYDRANT
DIA	DIAMETER	ROB	ROD OUT BASIN
DN	DOWN	RPPA	REDUCED PRESSURE DETECTOR ASSEMBLY
DS	DOWNSPOUT	RPM	REVOLUTIONS PER MINUTE
DSN	DOWNSPOUT NOZZLE	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
DT	DRAIN TILE	S/S	SANITARY WASTE
DW	DISHWASHER	SE	SITE UTILITY CONTRACTOR
DWH	DOMESTIC WATER HEATER	SH	SHOWER
DWS	DOMESTIC WATER SOFTENER	SI	SOLID INTERCEPTOR
ECC	ELECTRICAL CONTRACTOR	SK	SINK
EEW	EMERGENCY EYE AND FACE WASH	SP	SUMP PUMP
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	SQ	SQUARE FEET
ET	EXPANSION TANK	SS	SERVICE SINK
ESH	EMERGENCY SHOWER	SS	STAINLESS STEEL
ETR	EXISTING TO REMAIN	ST	STORM
EWC	ELECTRIC WATER COOLER	ST	SECONDARY STORM (OVERFLOW)
EW	ELECTRIC WATER HEATER	TR	THRUST BLOCK
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TDMV	THERMOSTATIC MIXING VALVE
FOG	FATS, OILS AND GREASE	TRPV	TEMPERATURE AND PRESSURE REDUCING VALVE
FPS	FEET PER SECOND	TYP	TYPICAL
FS	FLOOR SINK	URN	URNAL
FT	FEET	V	VENT
G	NATURAL GAS	VB	VACUUM BREAKER
GC	GENERAL CONTRACTOR	VTR	VENT THRU ROOF
GCO	GROUND CLEANOUT	W	WASTE
GI	GREASE INTERCEPTOR	WC	WATER CLOSET
GPD	GALLONS PER DAY	WCO	WALL CLEANOUT
GPH	GALLONS PER HOUR	WF	WASH FOUNTAIN
GPM	GALLONS PER MINUTE	WH	WALL HYDRANT
GT	GREASE TRAP	WHA	WATER HAMMER ARRESTOR
GW	GARAGE WASTE	WSB	WALL SUPPLY BOX
HB	HOSE BIBB	WSFU	WATER SUPPLY FIXTURE UNITS
HD	HEAD	YCO	YARD CLEANOUT
HP	HORSEPOWER	YH	YARD HYDRANT
HE	HEAT EXCHANGER		
IE	INVERT ELEVATION		
IWR	ICE MACHINE/REFRIGERATOR WALL BOX		
KS	KITCHEN STACK		
KEC	KITCHEN EQUIPMENT CONTRACTOR		
KED	KITCHEN EQUIPMENT DESIGNER		

NOTE: NOT ALL ABBREVIATIONS LISTED ABOVE MAY BE USED OR APPEAR IN THESE DRAWINGS.

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1 LOCATION MAP
SCALE: NO SCALE

SHEET LIST TABLE	
Sheet Number	Sheet Title
PLUMBING	
P0.01	PLUMBING TITLE SHEET
PD1.01	PLUMBING DEMOLITION PLAN - SERVICE LEVEL
PD1.14	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 1 ENLARGED PLAN
PD1.15	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 2 ENLARGED PLAN
PD1.16	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 3 ENLARGED PLAN
PD1.17	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 4 ENLARGED PLAN
PD1.18	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 5 ENLARGED PLAN
PD1.19	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 6 ENLARGED PLANS
PD1.20	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 7 ENLARGED PLAN
PD1.21	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 8 ENLARGED PLAN
PD1.22	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 9 ENLARGED PLAN
PD1.23	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 10 ENLARGED PLAN
PD1.24	PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 11 ENLARGED PLAN
PD1.27	PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 5 ENLARGED PLAN
PD1.30	PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 8 ENLARGED PLAN
PD1.31	PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 9 ENLARGED PLAN
PD1.35	PLUMBING DEMOLITION PLAN - LEVEL 300 SECTION 4 ENLARGED PLAN
PD1.36	PLUMBING DEMOLITION PLAN - LEVEL 300 SECTION 5 ENLARGED PLAN
PD1.39	PLUMBING DEMOLITION PLAN - LEVEL 300 SECTION 8 ENLARGED PLAN
PD1.40	PLUMBING DEMOLITION PLAN - LEVEL 300 SECTION 9 ENLARGED PLAN
PD1.44	PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 4 ENLARGED PLAN
PD1.45	PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 5 ENLARGED PLAN
PD1.46	PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 6 ENLARGED PLAN
PD1.47	PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 7 ENLARGED PLAN
PD1.48	PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 8 ENLARGED PLAN
PD1.49	PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 9 ENLARGED PLAN
PD1.52	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 3 ENLARGED
PD1.53	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 4 ENLARGED
PD1.54	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 5 ENLARGED
PD1.55	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 6 ENLARGED
PD1.56	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 7 ENLARGED
PD1.57	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 8 ENLARGED
PD1.58	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 9 ENLARGED
PD1.59	PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 10 ENLARGED
P0.01	PLUMBING NEW WORK PLAN - SERVICE LEVEL
P1.14	PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 1 ENLARGED PLAN
P1.15	PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 2 ENLARGED PLAN
P1.16	PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 3 ENLARGED PLAN
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P1.24	PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 11 ENLARGED PLAN
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P1.56	PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 7 ENLARGED PLAN
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P1.58	PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 9 ENLARGED
P1.59	PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 10 ENLARGED
P2.01	PLUMBING RISER DIAGRAM
P3.01	PLUMBING DETAILS
P4.01	PLUMBING SCHEDULES
P5.01	PLUMBING SPECIFICATIONS

PLUMBING SYMBOLS	
PIPING	
	NEW PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE DEMOLISHED
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER RETURN
	VENT PIPING
	AIR CHAMBER/WATER HAMMER ARRESTOR
	BACKFLOW PREVENTER
	BALL VALVE
	BALANCING VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	DIRECTION OF FLOW
	DIRECTION OF PIPE PITCH, DOWN
	FLEXIBLE PIPE CONNECTOR (OR CONNECTION)
	GATE VALVE
	PIPE ANCHOR
	PIPE BREAK
	PIPE CAP
	PIPE DROP/RISE
	PIPE ELBOW, 45° HORIZONTAL
	PIPE ELBOW, 90° HORIZONTAL
	PIPE ELBOW, DOWN AND 90° HORIZONTAL
	PIPE ELBOW, TURNED DOWN
	PIPE ELBOW, TURNED UP
	PIPE REDUCER/INCREASER
	PIPE TEE, DOWN
	PIPE TEE, FOUR-WAY, HORIZONTAL
	PIPE TEE, HORIZONTAL
	PIPE TEE, TOP CONNECTION, 45° OR 90° ELBOW
	PIPE TEE, UP
	PIPE UNION
	PRESSURE GAUGE
	PRESSURE REDUCING/REGULATING VALVE
	PUMP
	THERMOSTATIC MIXING VALVE
	THERMOMETER
	VACUUM RELIEF VALVE
GENERAL	
	EQUIPMENT TAG
	RISER TAG
	FLOOR DRAIN
	POINT OF CONNECTION OF NEW TO EXISTING WORK
	POINT OF DEMOLITION TO EXISTING WORK
NOTE: NOT ALL SYMBOLS LISTED ABOVE MAY BE USED OR APPEAR IN THESE DRAWINGS.	

PROJECT SCOPE OF WORK	
1.	DEMOLITION OF EXISTING ORIGINAL SANITARY AND VENT PIPING. INSTALLATION OF NEW CAST IRON PIPING IN LOCATIONS IDENTIFIED ON PLANS.
2.	REPLACEMENT OF PIPING, VALVES, AND OTHER PIPING ACCESSORIES BETWEEN THE DOMESTIC WATER HEATERS AND THE DOMESTIC HOT WATER STORAGE TANKS IN MECHANICAL ROOM 1.14.4.
3.	REPLACEMENT OF DUPLEX SEWAGE EJECTOR PUMPS, ASSOCIATED CONTROLS AND COVER IN WHITE SOX CLUBHOUSE STORAGE ROOM 1.38.5. INCLUDE RECONFIGURATION OF DISCHARGE PIPING AND NEW VENT.
4.	DISASSEMBLY, REPAIR AND REPLACEMENT OF COMPONENTS, AND REASSEMBLY OF AREA DRAINS THROUGHOUT THE 100 LEVEL AND 500 LEVEL CONCOURSES.
5.	REPLACEMENT OF ELECTRIC WATER HEATERS CONNECTED TO RESTROOMS SERVING THE SUITES ON LEVELS 200, 300, AND 400. INCLUDE NEW EXPANSION TANK, VALVES, DRAIN PAN, SUPPORT PLATFORM, AND DRAIN LINES.
5.1.	REPLACEMENT OF EXPANSION TANKS FOR ETR WATER HEATERS ON 300 LEVEL.
6.	REPLACEMENT OF LAVATORY FAUCETS IN RESTROOMS SERVING THE SUITES ON LEVELS 200, 300, AND 400.
7.	REPLACEMENT OF FLUSH VALVES IN STADIUM CLUB, LEVELS 300 AND 400.
8.	EPOXY LINING OF FLOOR SINKS AND FLOOR DRAINS IN CONCESSIONS STANDS LOCATED THROUGHOUT THE 100 AND 500 LEVEL CONCOURSES.

ELECTRICAL SCOPE OF WORK	
1.	PROVIDE NEW WIRING FOR INCREASED POWER DEMAND ASSOCIATED WITH NEW DUPLEX SEWAGE EJECTOR PUMPS IN WHITE SOX CLUBHOUSE STORAGE ROOM 1.38.5. INCLUDE INVESTIGATION FOR BEST LOCATION, TERMINATION AT NEW POWER PANEL AND REVISED LABELING OF ELECTRICAL GEAR.
2.	PROVIDE NEW WIRING FOR INCREASED POWER DEMAND ASSOCIATED WITH NEW INSTANTANEOUS WATER HEATER TO SERVE THE SCOUTS LOUNGE BAR FIXTURES. INCLUDE INVESTIGATION FOR BEST LOCATION, TERMINATION AT NEW POWER PANEL AND REVISED LABELING OF ELECTRICAL GEAR.
3.	DISCONNECT POWER AND RECONNECT POWER FOR IN-KIND REPLACEMENT ELECTRIC WATER HEATERS CONNECTED TO RESTROOMS SERVING THE SUITES ON LEVELS 200, 300, AND 400.



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KEY PLAN

ISSUE/REVISION:

REV.	DATE	DESCRIPTION
1	12/26/21	ISSUE FOR BID
2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING TITLE SHEET

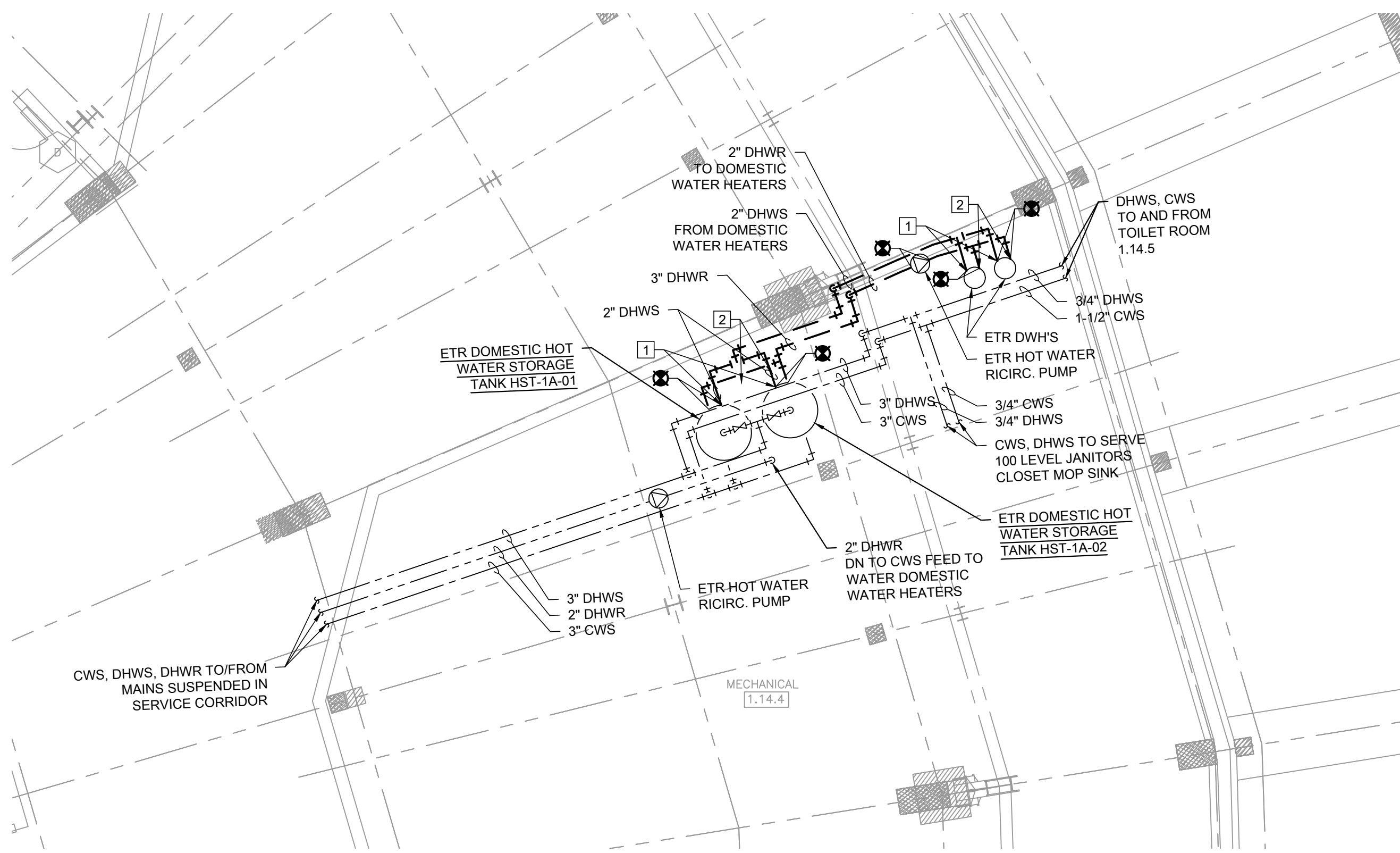
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PROJECT NO: 21275
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SHEET NO.

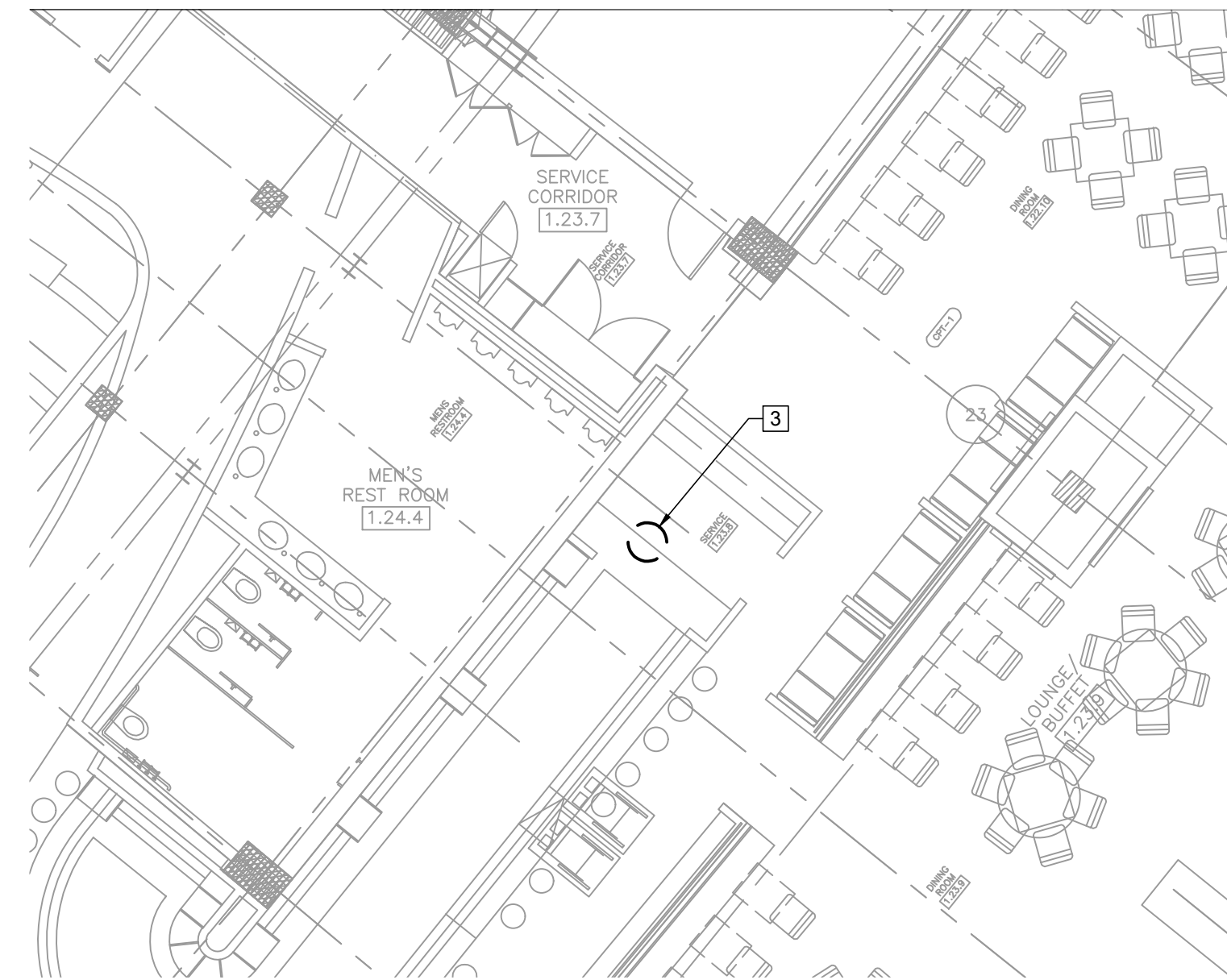
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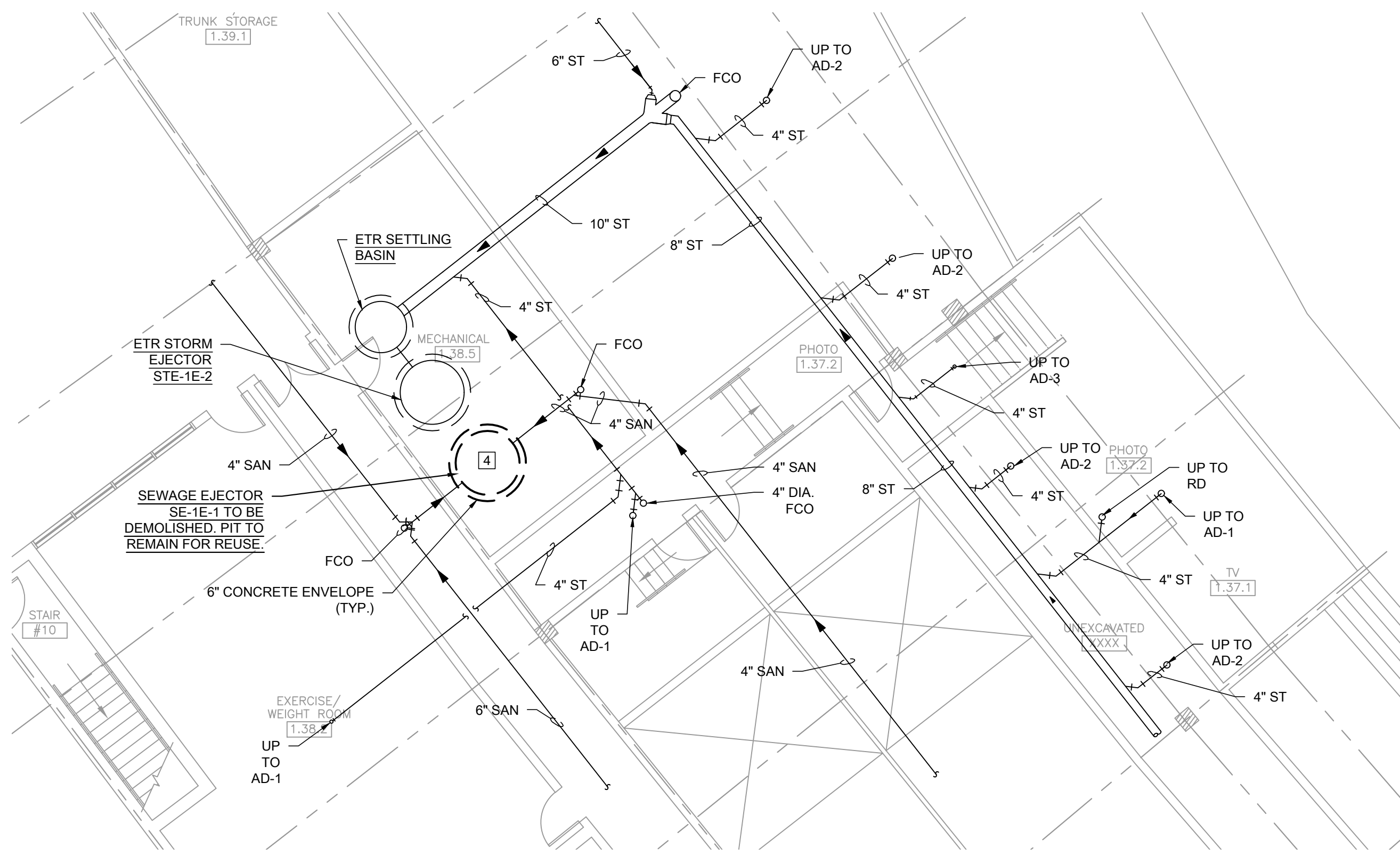
P0.01



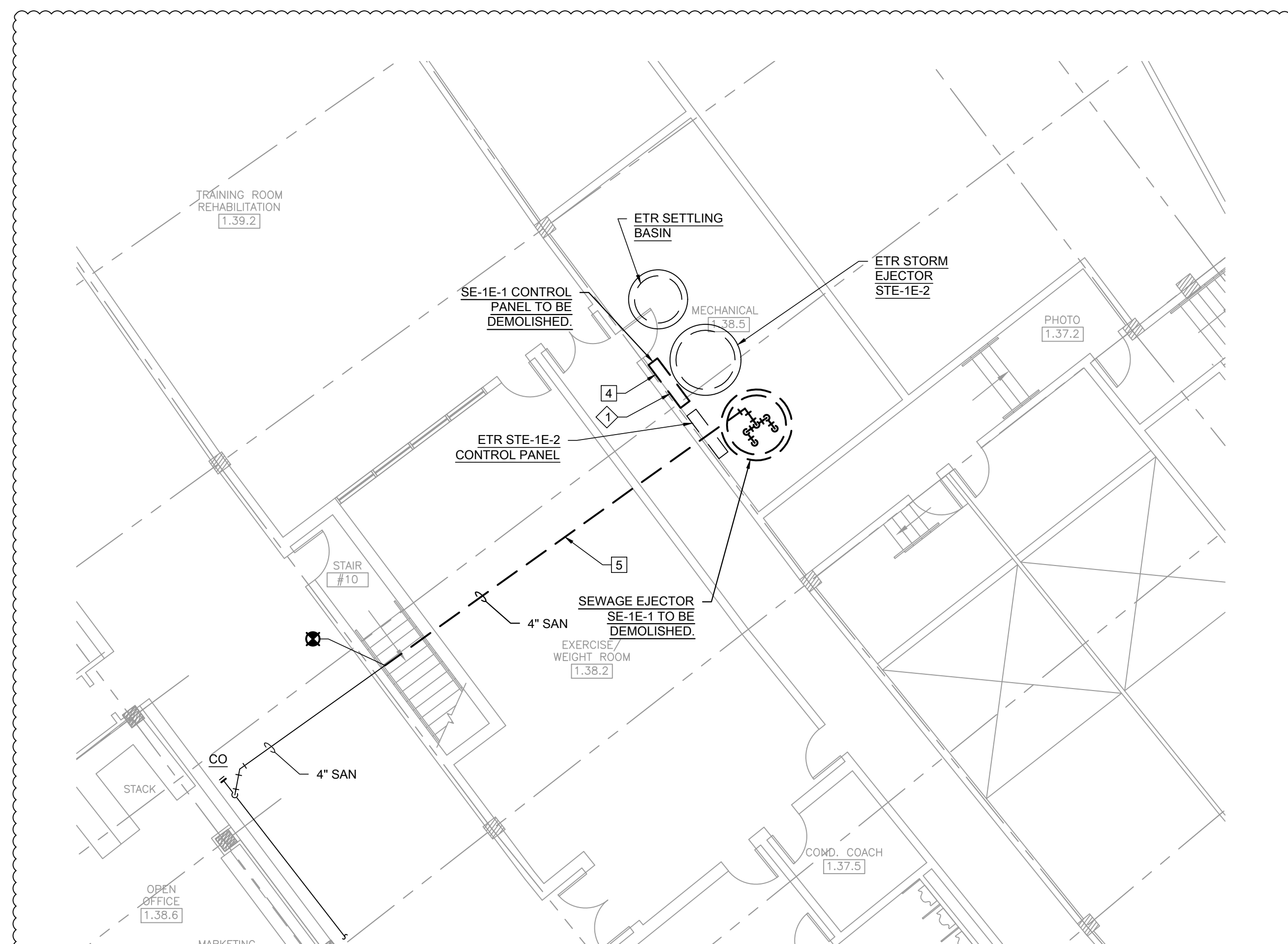
1 PLUMBING DEMOLITION PLAN - SERVICE LEVEL - CENTRAL WATER HEATERS
SCALE: 1/8" = 1'-0"



2 PLUMBING DEMOLITION PLAN - SERVICE LEVEL - SCOUTS LOUNGE
SCALE: 1/8" = 1'-0"



3 PLUMBING DEMOLITION PLAN - SERVICE LEVEL (UNDERGROUND) - SEWAGE EJECTOR
SCALE: 1/8" = 1'-0"



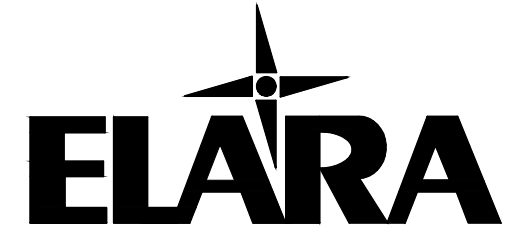
4 PLUMBING DEMOLITION PLAN - SERVICE LEVEL - SEWAGE EJECTOR
SCALE: 1/8" = 1'-0"

KEYED PLUMBING DEMOLITION SHEET NOTES

1. DISCONNECT AND DEMOLISH HOT WATER SUPPLY PIPING BETWEEN EXISTING TO REMAIN DOMESTIC WATER HEATERS AND EXISTING TO REMAIN DOMESTIC HOT WATER STORAGE TANKS. SYSTEM SUPPLIES SERVICE LEVEL AND COMMERCIAL KITCHENS THROUGHOUT THE FACILITY. CONTRACTOR SHALL COORDINATE SHUT DOWN OF THIS SYSTEM WITH CHICAGO WHITE SOX CWS PLUMBING DEPARTMENT AND SFA.
2. DISCONNECT AND DEMOLISH HOT WATER RETURN PIPING BETWEEN EXISTING TO REMAIN DOMESTIC WATER HEATERS AND EXISTING TO REMAIN DOMESTIC HOT WATER STORAGE TANKS.
3. DISCONNECT AND DEMOLISH EXISTING STORAGE TANK WATER HEATER SERVING SCOUTS LOUNGE BAR. WATER HEATER IS LOCATED ON A STRUCTURAL PLATFORM HIGH ABOVE THE ACCESSIBLE CEILING. EXACT LOCATION OF WATER HEATER, PIPING CONNECTIONS, AND ISOLATION VALVES COULD NOT BE SURVEYED DUE TO EXISTING REMODELING PROJECT IN THAT AREA. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO SUBMISSION OF BID.
4. DISCONNECT AND DEMOLISH EXISTING SEWAGE EJECTOR PUMPS, PIT COVER, CONTROLS, POWER, AND DISCHARGE PIPING. COORDINATE WITH E&E AND BASC FOR DEMOLITION AND REMOVAL OF WALL MOUNTED CONTROLLER AND THE INCREASED POWER REQUIREMENTS FOR THE NEW PUMPS.
5. DEMOLISH AND REMOVE EXISTING GALVANIZED SANITARY LINE. PROTECT WEIGHT ROOM EQUIPMENT AND SURFACES DURING DEMOLITION.

KEYED PLUMBING DEMOLITION SHEET NOTES

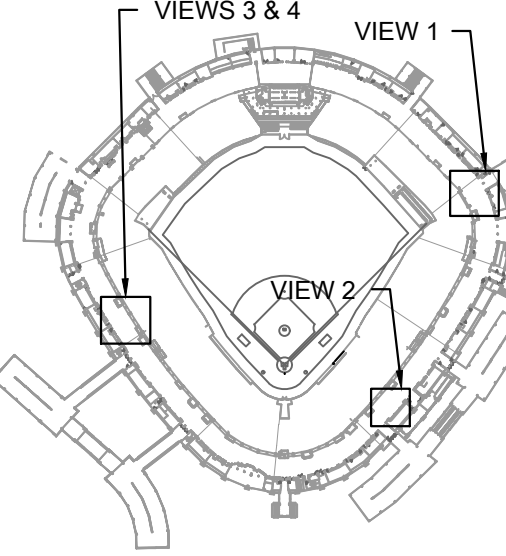
1. DISCONNECT AND MAKE SAFE EXISTING SEWAGE PUMP CONTROL PANEL, AND ASSOCIATED CONDUCTORS TO EXISTING PUMPS BEING DEMOLISHED. VERIFY EXISTING ELECTRICAL DISTRIBUTION IN FIELD AND REMOVE EXISTING CONDUCTORS BACK TO THEIR SOURCE.



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PHASE X
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DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- SERVICE LEVEL

DESIGNED BY: DA
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PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO.

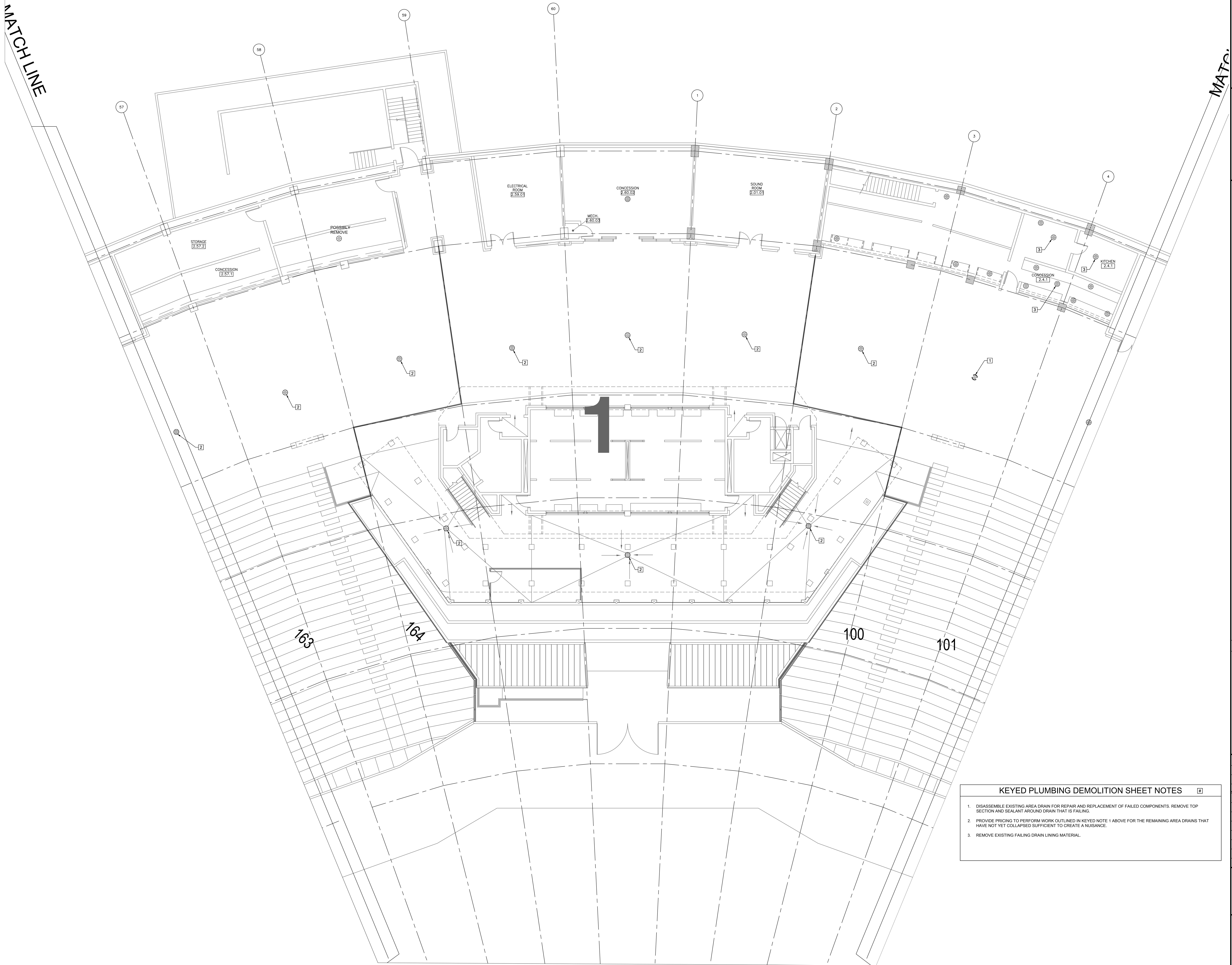
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PD1.01

MATCH LINE

MATCH LINE



1 PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 1 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

KEYED PLUMBING DEMOLITION SHEET NOTES

1.

DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.

2.

PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.

3.

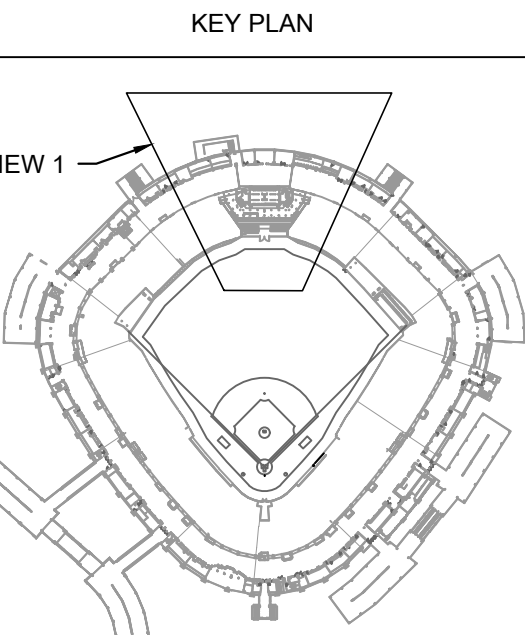
REMOVE EXISTING FAILING DRAIN LINING MATERIAL.

ELARA

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WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
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DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 1
ENLARGED PLAN

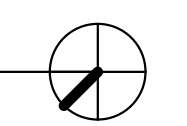
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CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

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PD1.14

1 PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 2 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



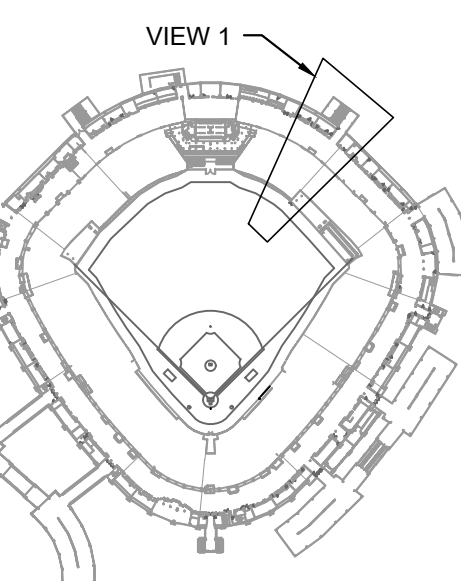
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KEY PLAN



ISSUE/REVISION:

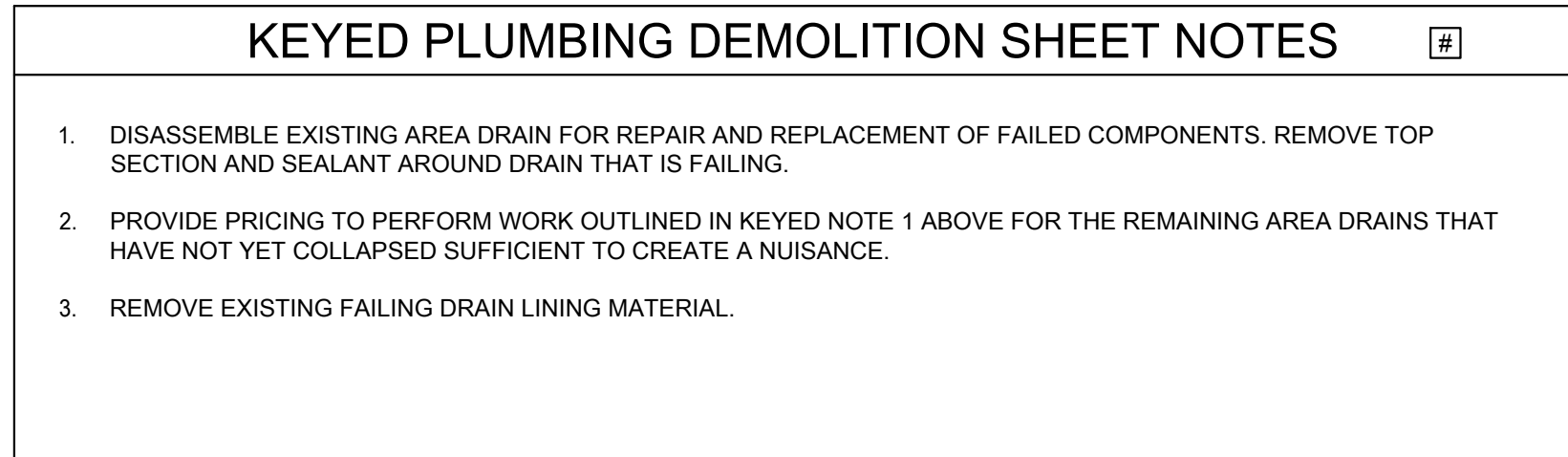
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DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 2
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

PD1.15



12/27/2021	ISSUED FOR BID ADDENDUM
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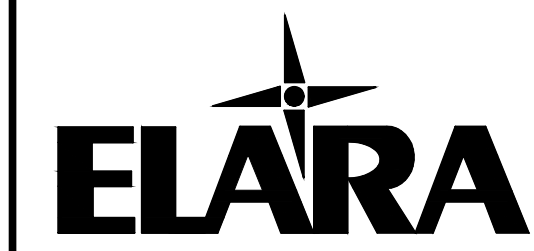
SHEET NO.



1 PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 5 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

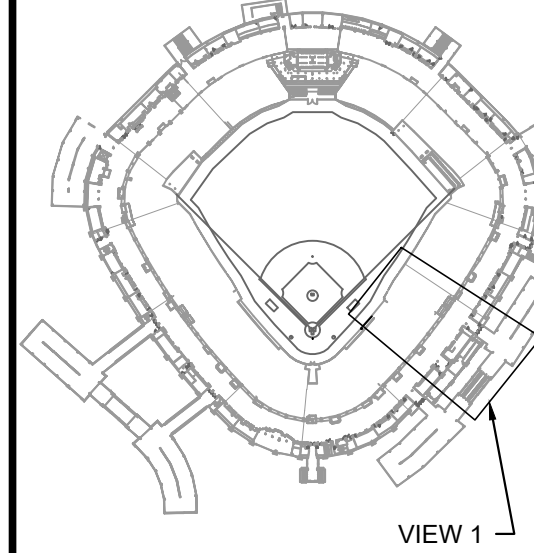
- KEYED PLUMBING DEMOLITION SHEET NOTES**
1. DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.
 2. PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. REMOVE EXISTING FAILING DRAIN LINING MATERIAL.



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KEY PLAN



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1	12/21/21	ISSUE FOR BID
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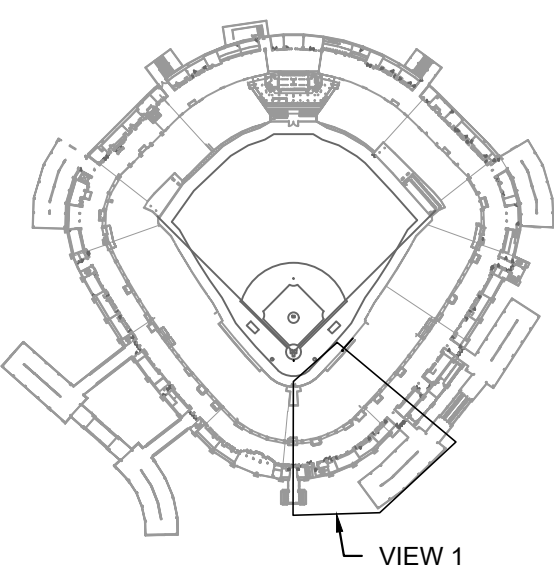
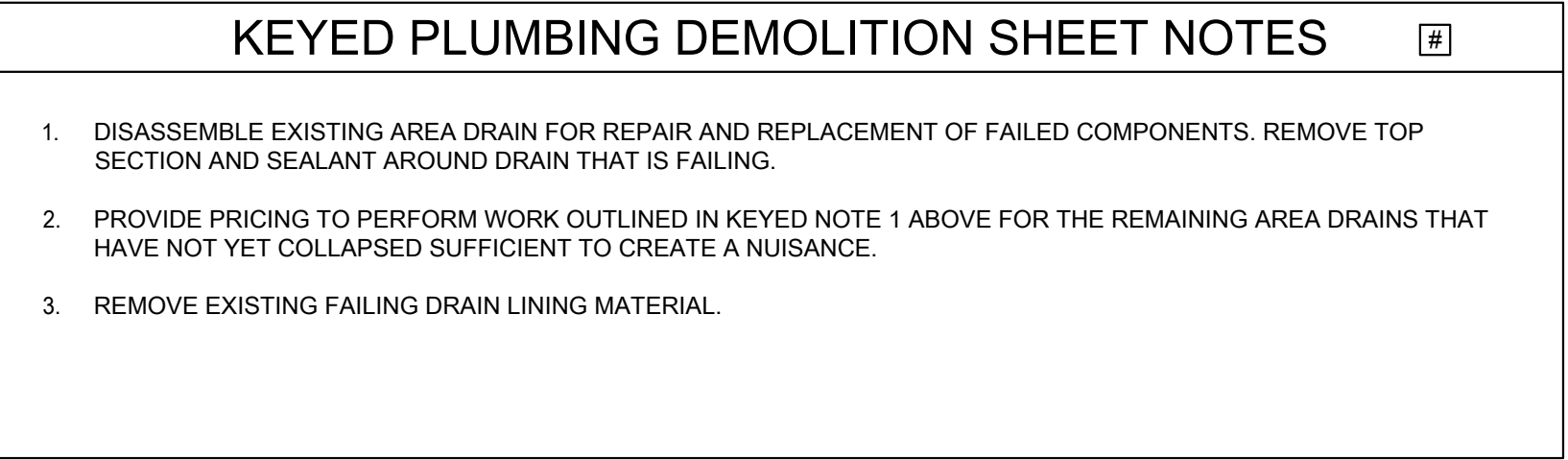
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 5
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

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PD1.18

[illegible]

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

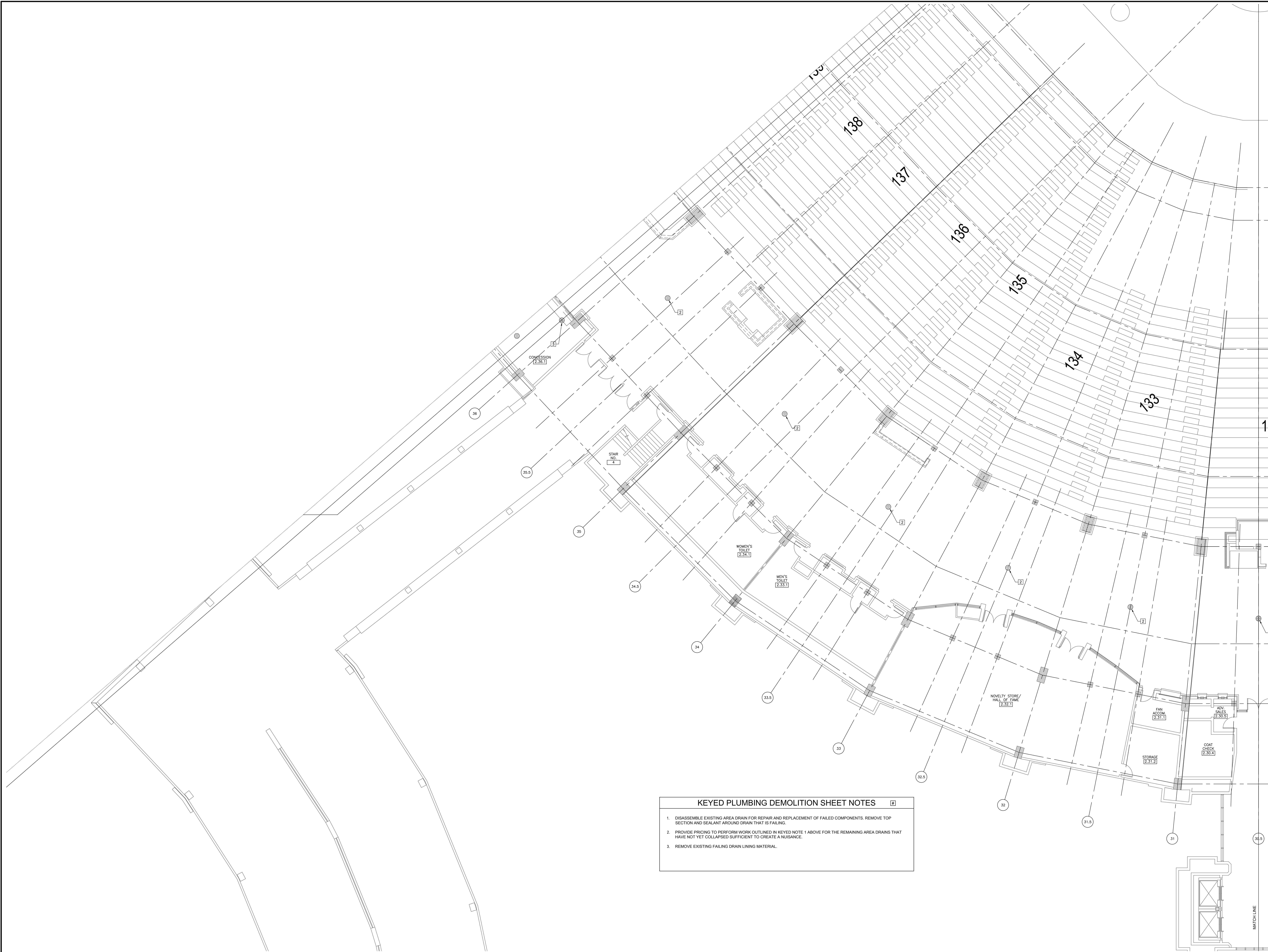
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 6
ENLARGED PLANS

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

PD1.19

1 PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 6 ENLARGED PLAN
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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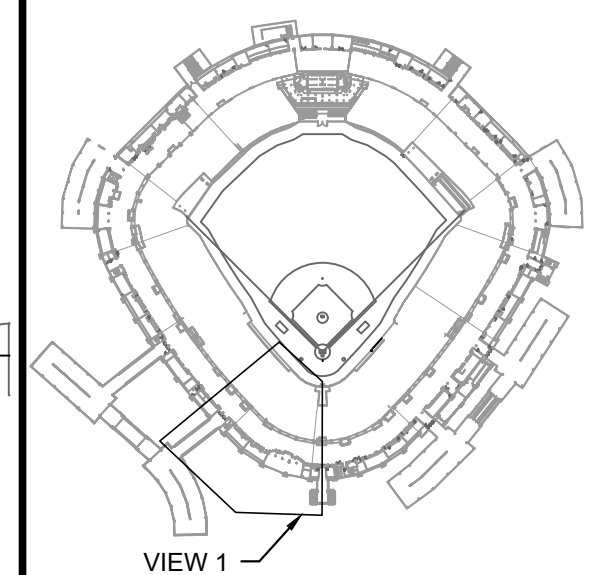


1 PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 7 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

- KEYED PLUMBING DEMOLITION SHEET NOTES**
1. DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.
 2. PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. REMOVE EXISTING FAILING DRAIN LINING MATERIAL.



KEY PLAN



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PROJECT:
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WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

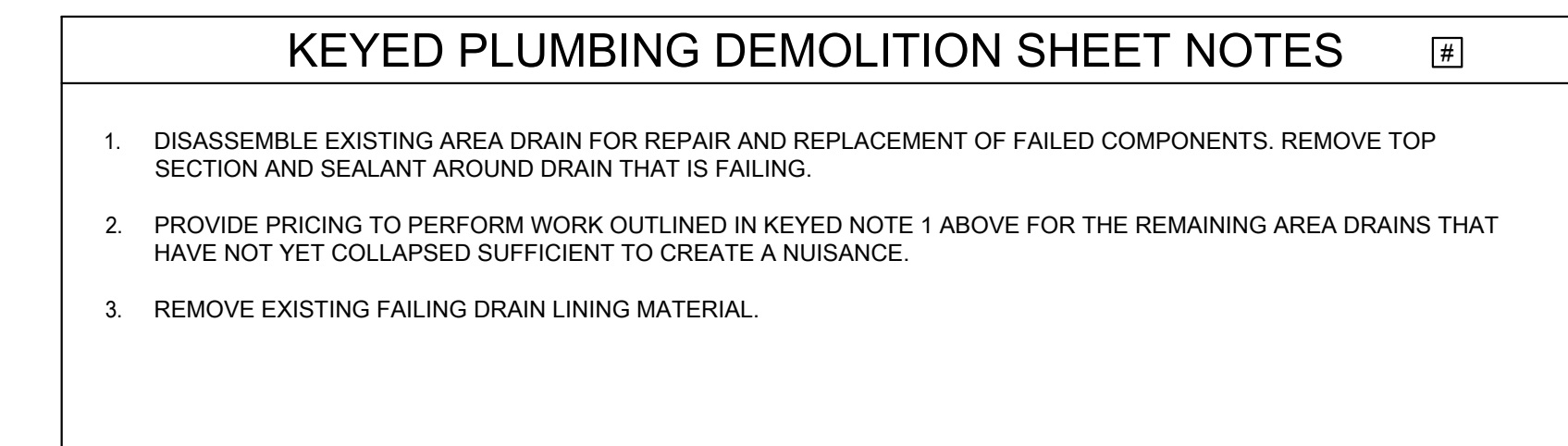
DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 7
ENLARGED PLAN

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



PD1.21





1 PLUMBING DEMO SCALE: 1/8" = 1'-0" 0 4' 8' 12'

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[illegible]

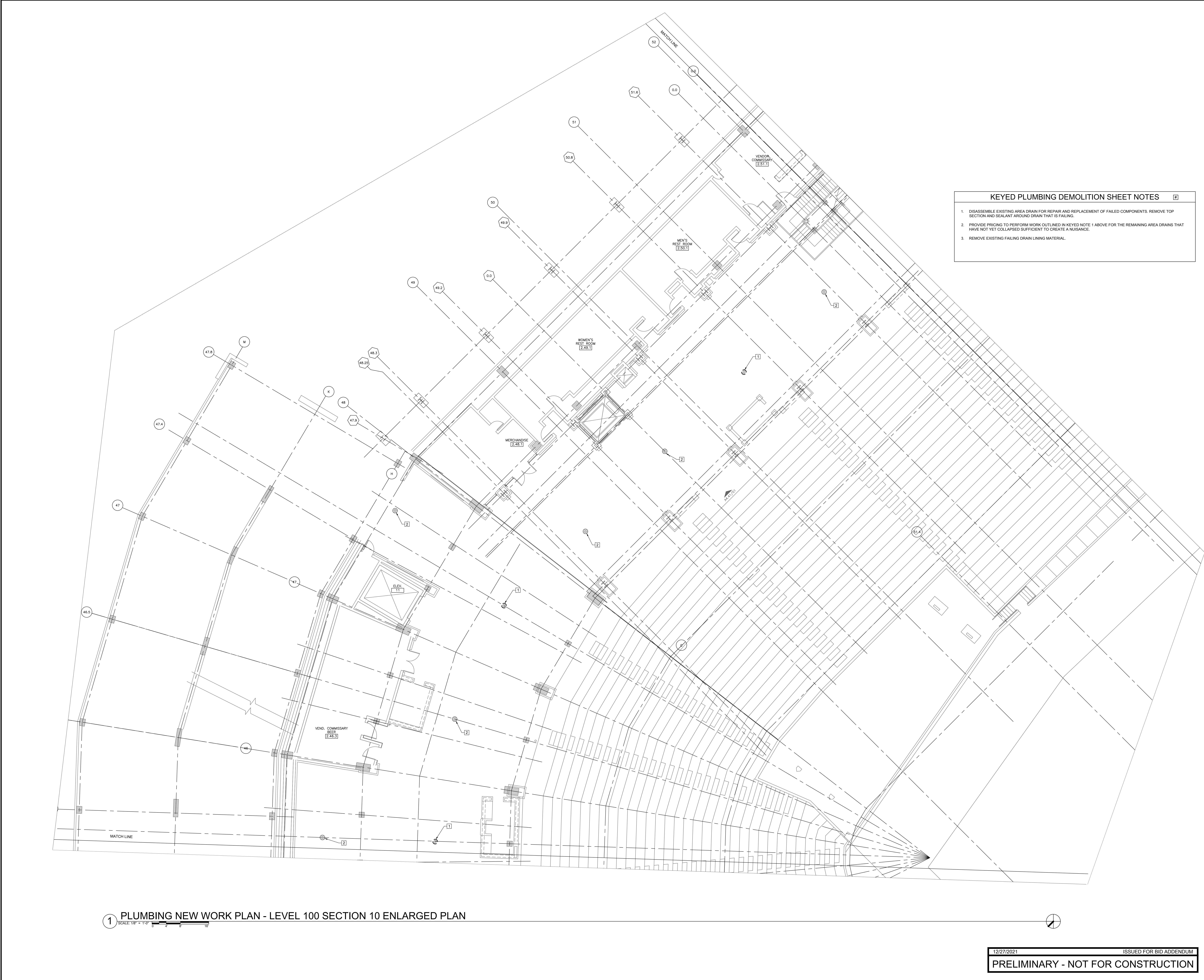
1 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
CLIMBING DEMOLITION PLAN
LEVEL 100 SECTION 9
ENLARGED PLAN

SIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

SHEET NO. _____

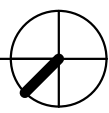
PD1.22



- KEYED PLUMBING DEMOLITION SHEET NOTES
1. DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.
 2. PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. REMOVE EXISTING FAILING DRAIN LINING MATERIAL.

1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 10 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



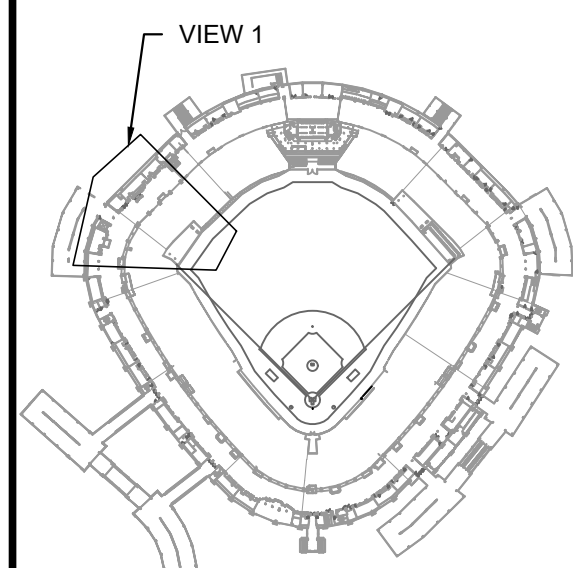
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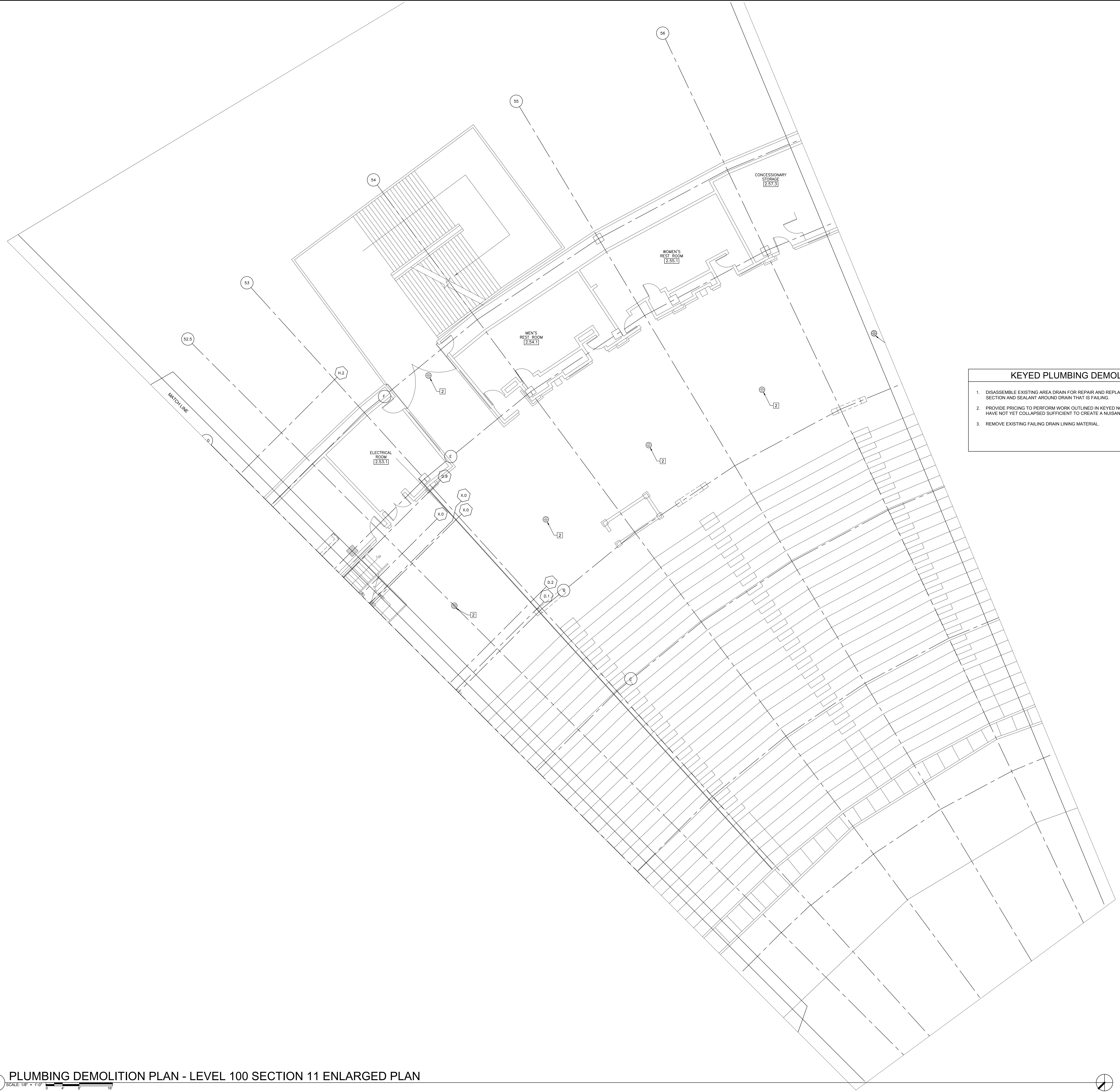
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 10
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

PD1.23



- KEYED PLUMBING DEMOLITION SHEET NOTES**
1. DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.
 2. PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. REMOVE EXISTING FAILING DRAIN LINING MATERIAL.

1 PLUMBING DEMOLITION PLAN - LEVEL 100 SECTION 11 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

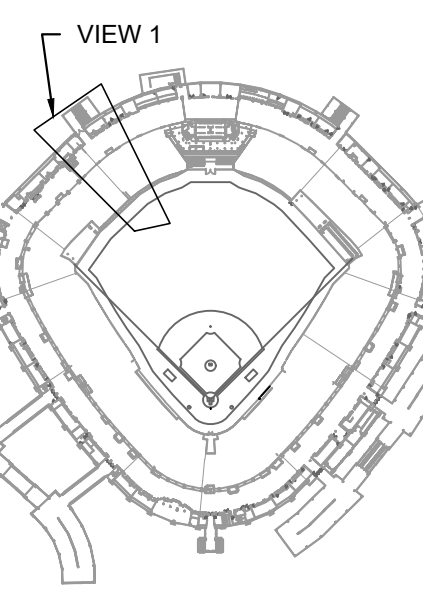
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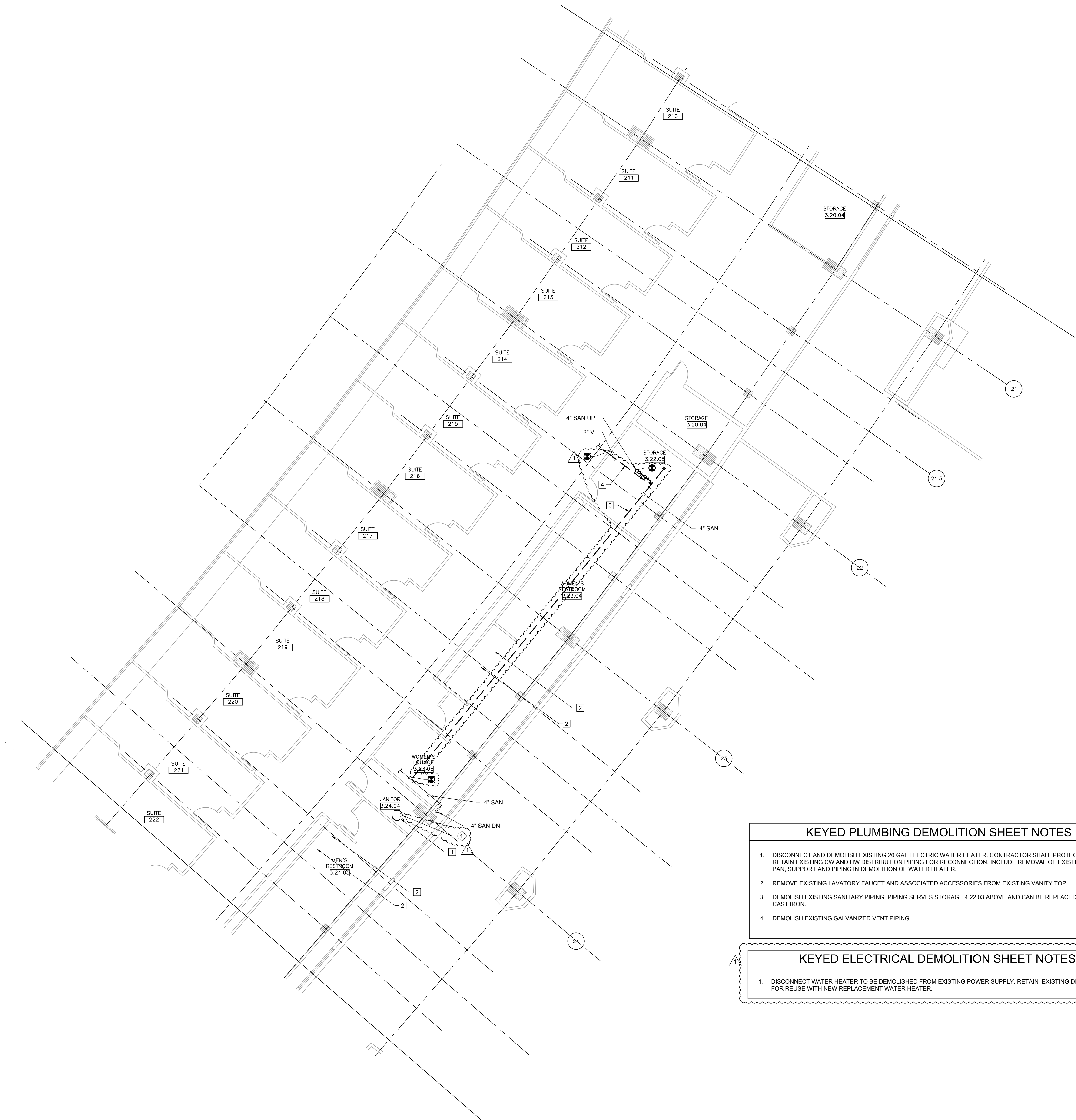
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-	12/26/21	ISSUE FOR BID
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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 100 SECTION 11
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

PD1.24



- KEYED PLUMBING DEMOLITION SHEET NOTES**
1.

DISCONNECT AND DEMOLISH EXISTING 20 GAL ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CW AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
2.

REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.
3.

DEMOLISH EXISTING SANITARY PIPING. PIPING SERVES STORAGE 4.22.03 ABOVE AND CAN BE REPLACED WITH NEW CAST IRON.
4.

DEMOLISH EXISTING GALVANIZED VENT PIPING.
- KEYED ELECTRICAL DEMOLITION SHEET NOTES**
1.

DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.

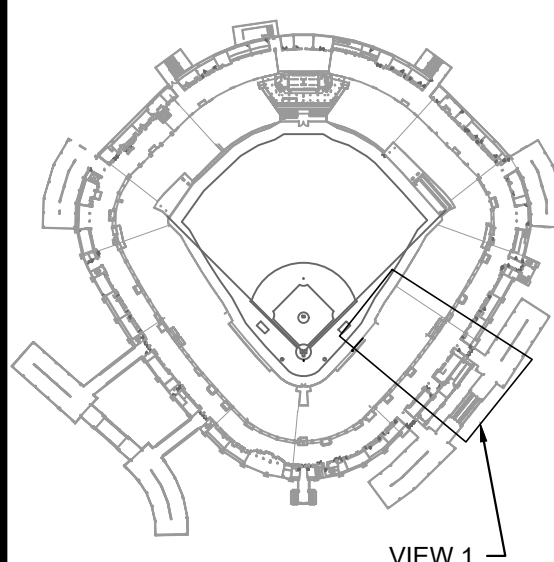
1 PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 5 ENLARGED PLAN



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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

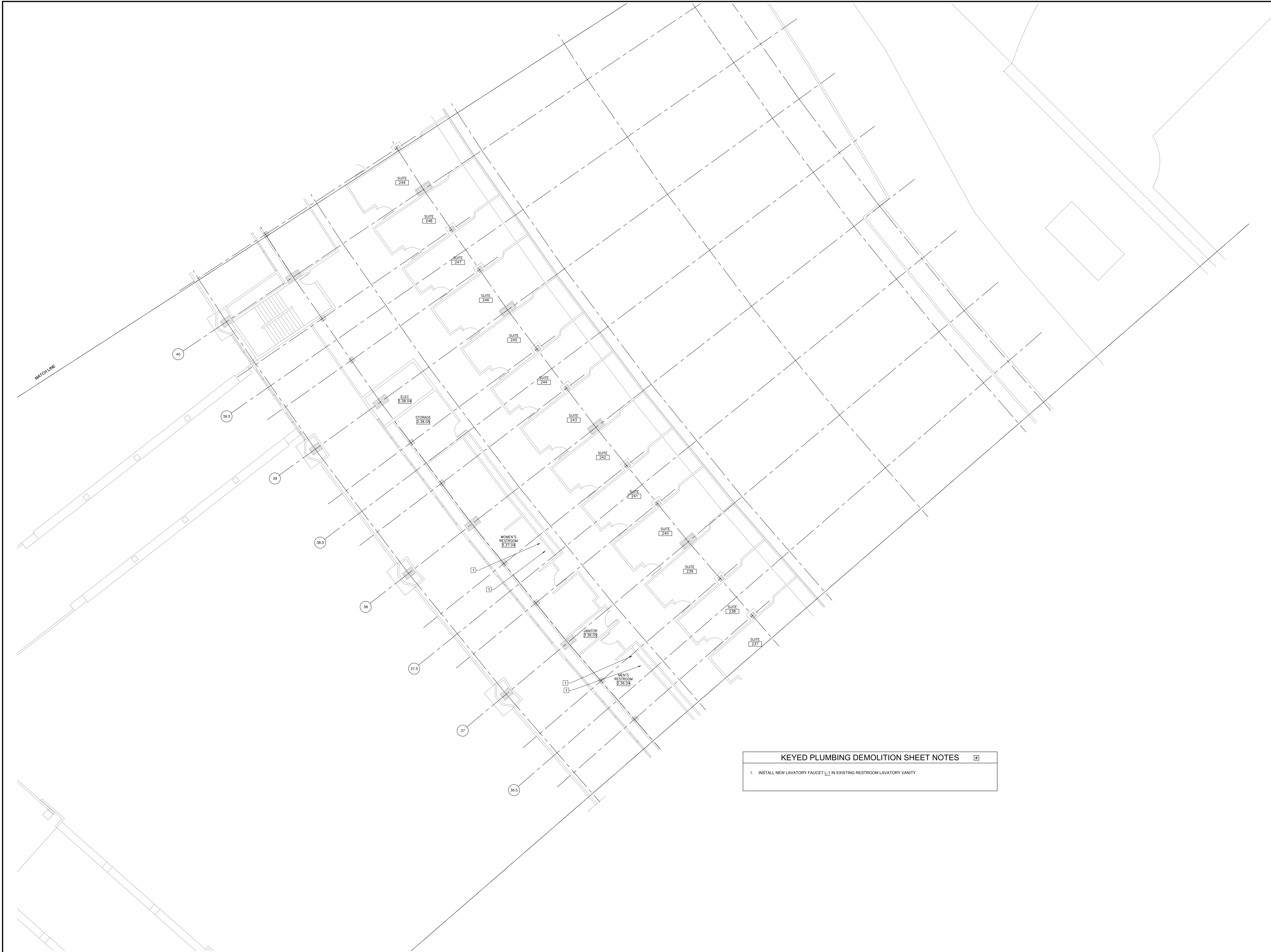
DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 200 SECTION 5
ENLARGED PLAN

DESIGNED BY: DA
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PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO.

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PD1.27



1 PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 8 ENLARGED PLAN

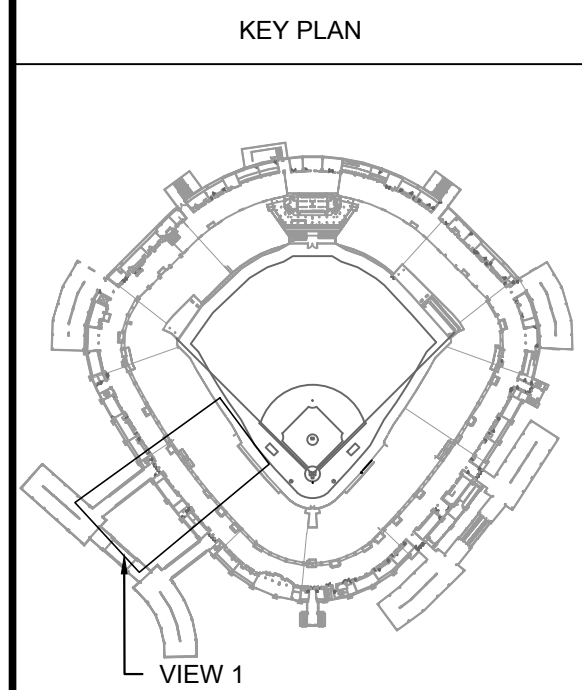
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KEYED PLUMBING DEMOLITION SHEET NOTES	
1.	INSTALL NEW LAVATORY FAUCET L1 IN EXISTING RESTROOM LAVATORY VANITY.

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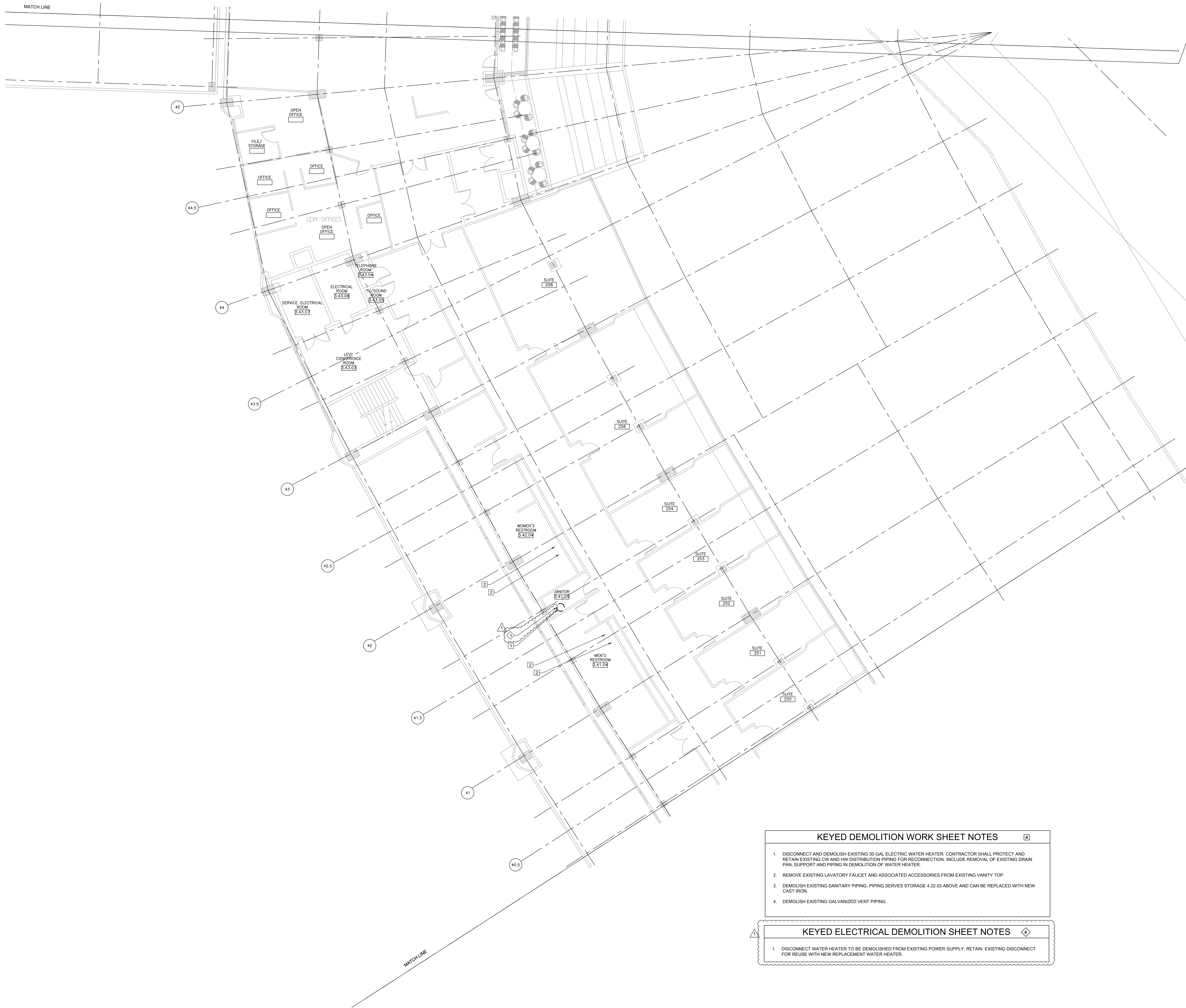
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1	ISSUE FOR BID
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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 200 SECTION 8
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO.
PD1.30

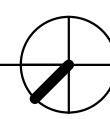


- KEYED DEMOLITION WORK SHEET NOTES**
1. DISCONNECT AND DEMOLISH EXISTING 30 GAL. ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CW AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
 2. REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.
 3. DEMOLISH EXISTING SANITARY PIPING. PIPING SERVES STORAGE 4.22.03 ABOVE AND CAN BE REPLACED WITH NEW CAST IRON.
 4. DEMOLISH EXISTING GALVANIZED VENT PIPING.

- KEYED ELECTRICAL DEMOLITION SHEET NOTES**
1. DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.

1 PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 9 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



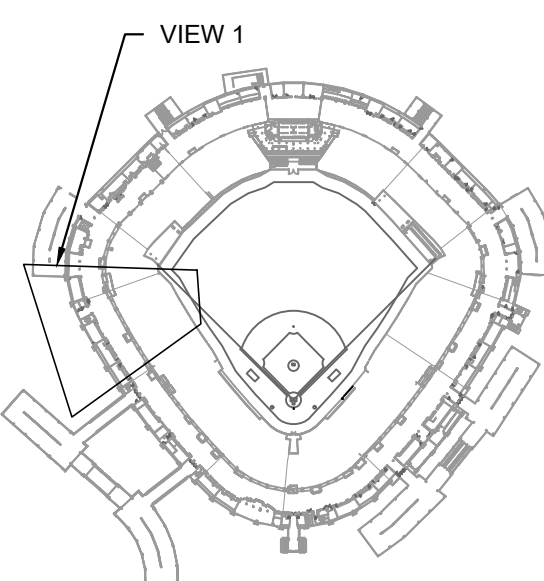
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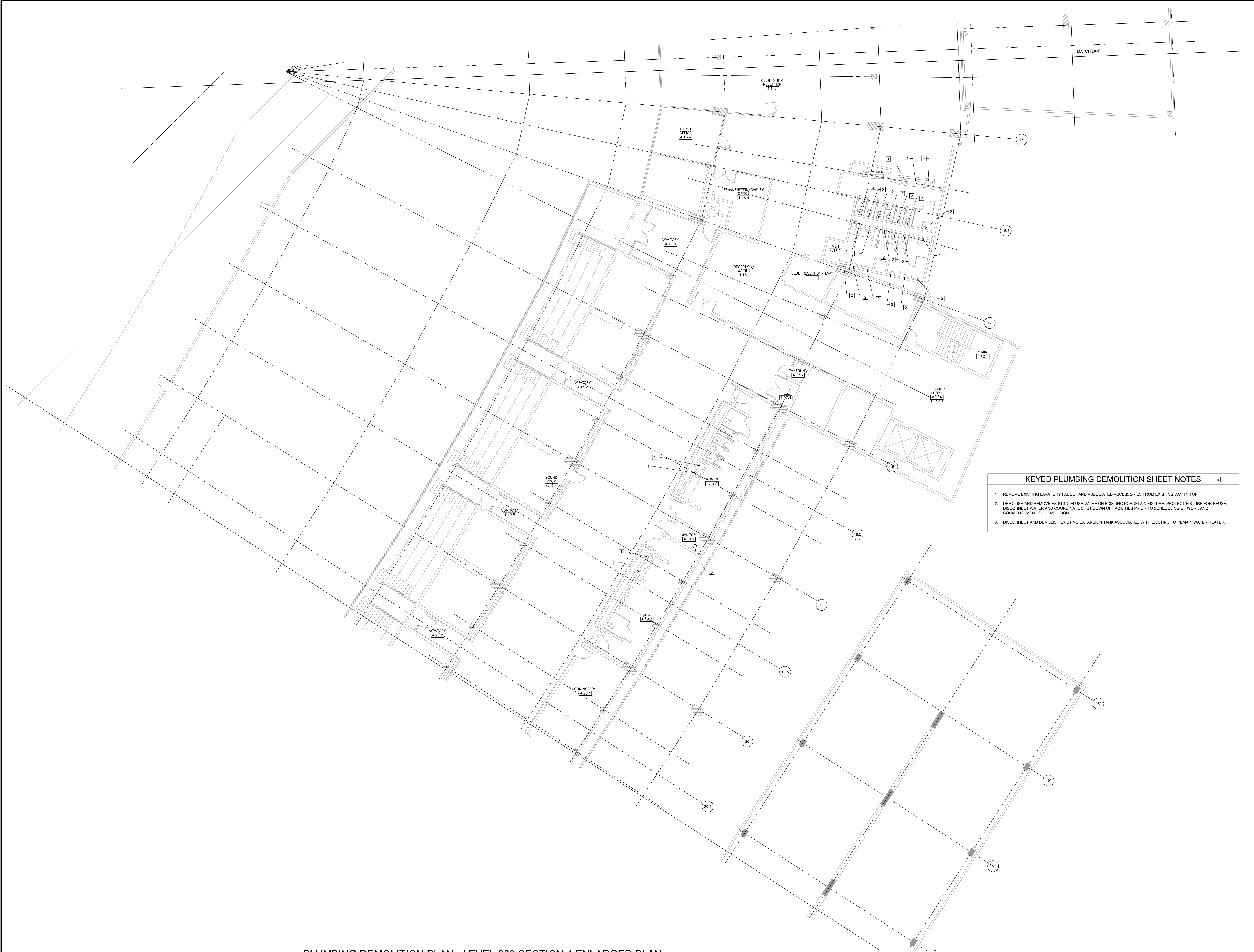
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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 200 SECTION 9
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

PD1.31



- KEYED PLUMBING DEMOLITION SHEET NOTES**
1. REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.
 2. DEMOLISH AND REMOVE EXISTING FLUSH VALVE ON EXISTING PORCELAIN FIXTURE. PROTECT FIXTURE FOR REUSE. DISCONNECT WATER AND COORDINATE SHUT DOWN OF FACILITIES PRIOR TO SCHEDULING OF WORK AND COMMENCEMENT OF DEMOLITION.
 3. DISCONNECT AND DEMOLISH EXISTING EXPANSION TANK ASSOCIATED WITH EXISTING TO REMAIN WATER HEATER.

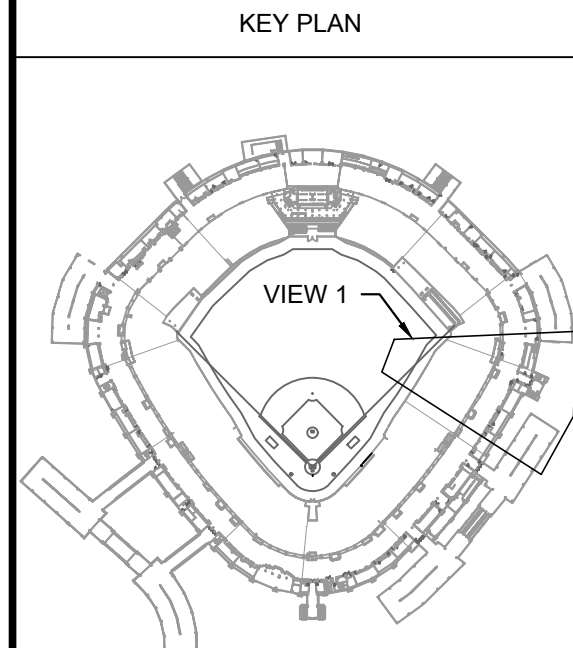
1 PLUMBING DEMOLITION PLAN - LEVEL 300 SECTION 4 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 300 SECTION 4
ENLARGED PLAN

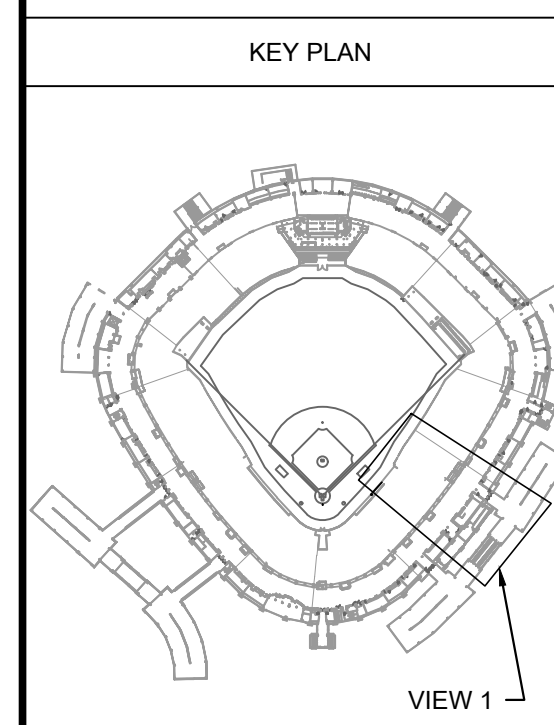
DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO
PD1.35



1 PLUMBING NEW WORK PLAN - LEVEL 300 SECTION 5 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

- | KEYED PLUMBING DEMOLITION SHEET NOTES | |
|---------------------------------------|--|
| 1. | REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP. |
| 2. | DISCONNECT AND DEMOLISH EXISTING EXPANSION TANK ASSOCIATED WITH EXISTING TO REMAIN WATER HEATER. |



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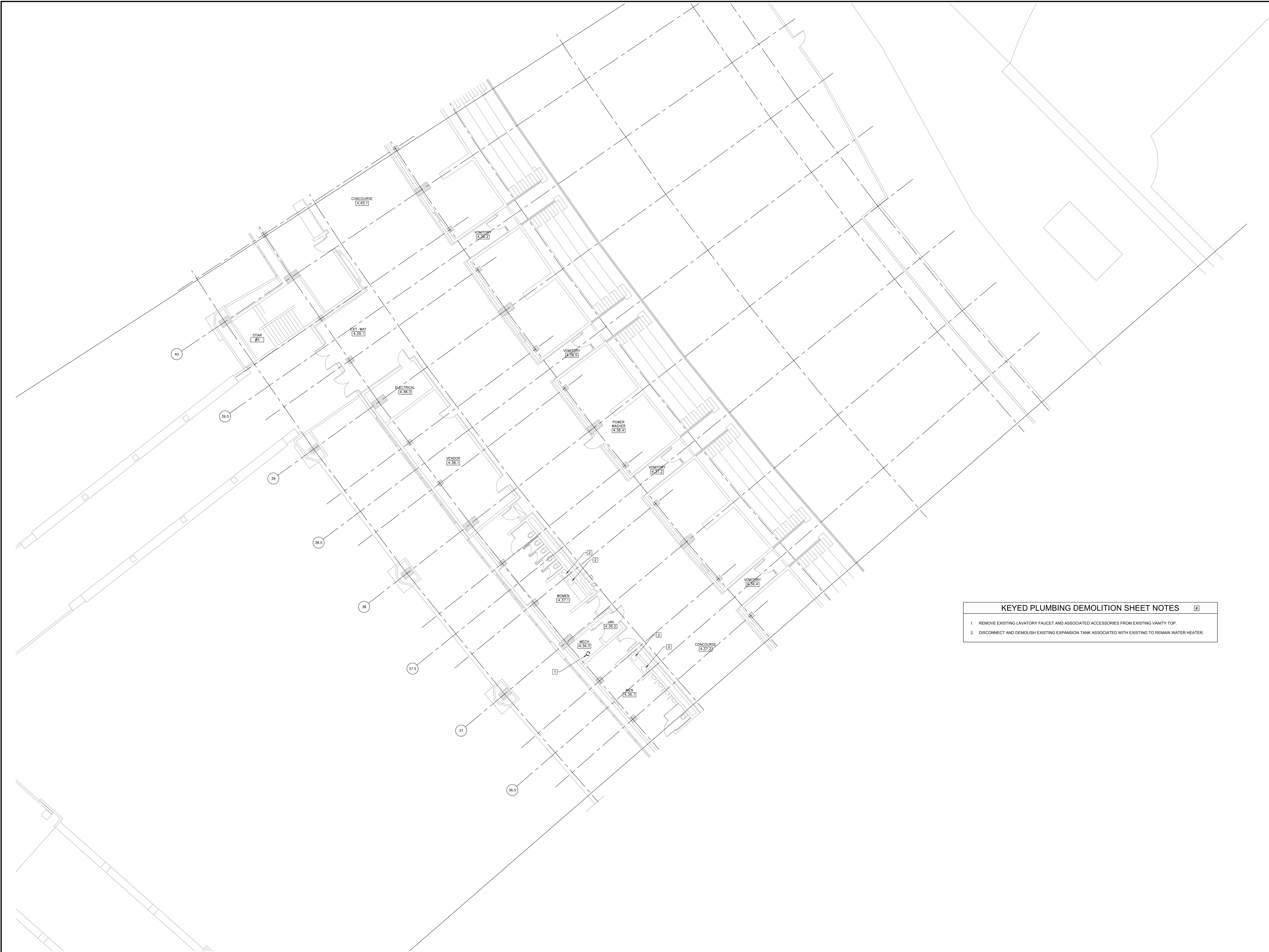
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 300 SECTION 5
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

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PD1.36

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1 PLUMBING NEW WORK PLAN - LEVEL 300 SECTION 8 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

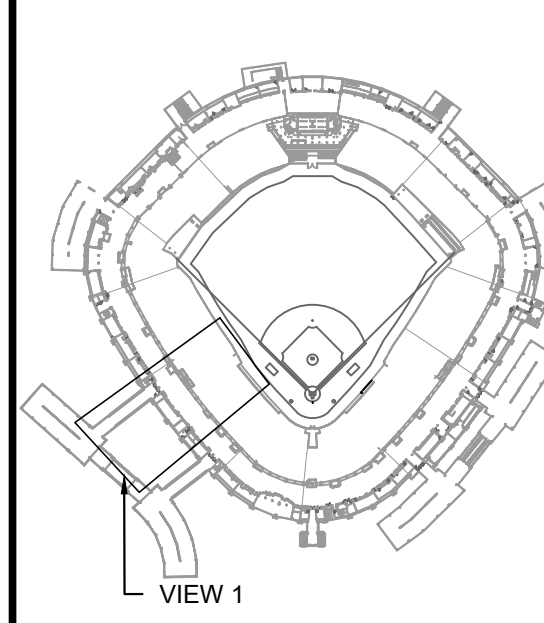
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PROJECT:

GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

PLUMBING DEMOLITION PLAN
- LEVEL 300 SECTION 8
ENLARGED PLAN

DESIGNED BY: DA

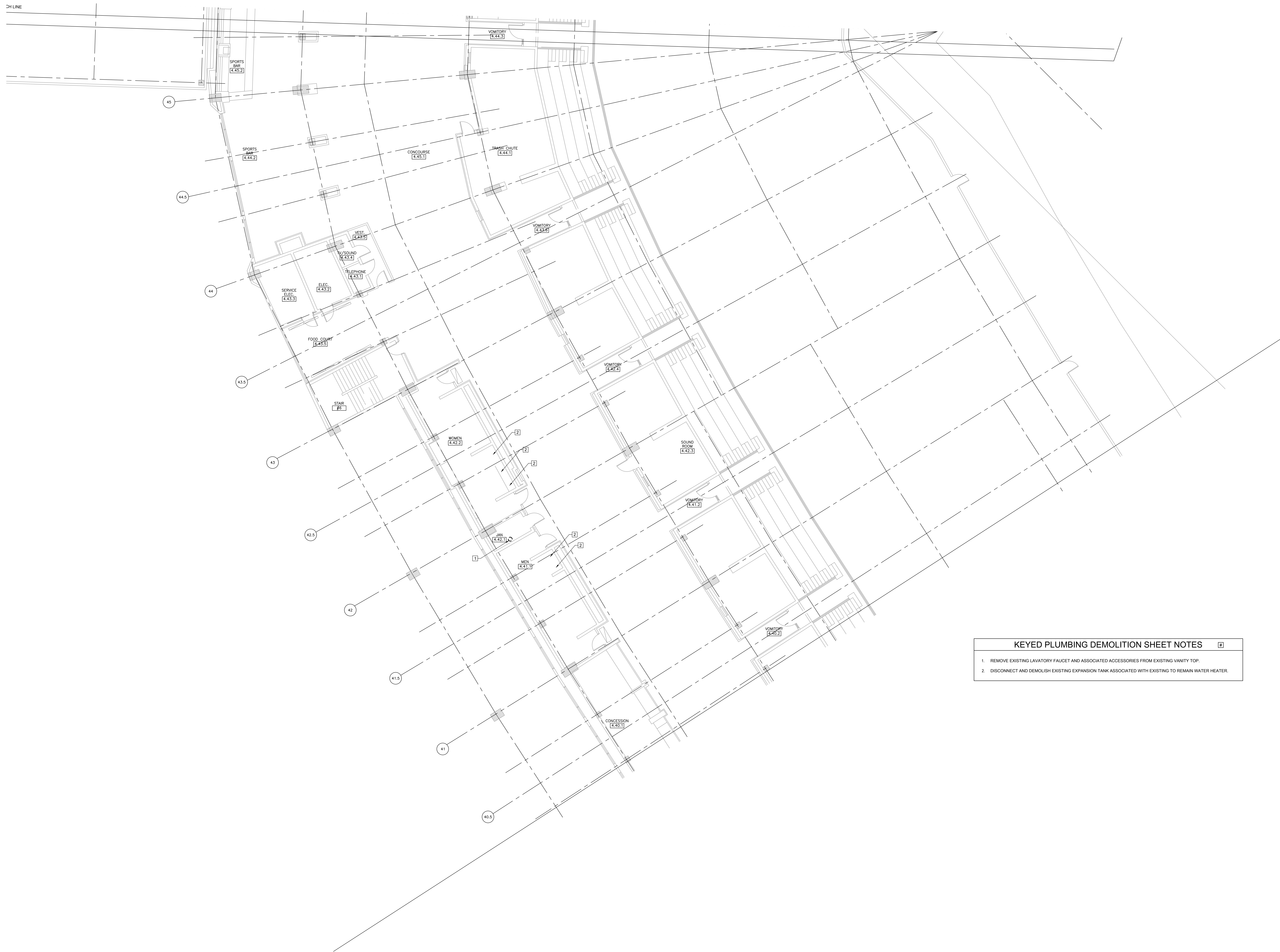
CHECKED BY: MS

PROJECT NO: 21275

SCALE: 1/8" = 1'-0"

SHEET NO:

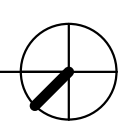
PD1.39



- KEYED PLUMBING DEMOLITION SHEET NOTES**
1. REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.
 2. DISCONNECT AND DEMOLISH EXISTING EXPANSION TANK ASSOCIATED WITH EXISTING TO REMAIN WATER HEATER.

1 PLUMBING DEMOLITION PLAN - LEVEL 300 SECTION 9 ENLARGED PLAN

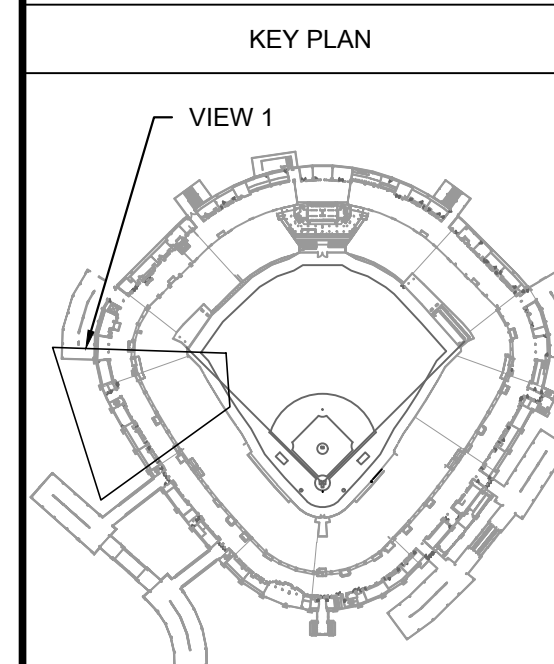
SCALE: 1/8" = 1'-0"



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WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 300 SECTION 9
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO.: 21275
SCALE: 1/8" = 1'-0"

SHEET NO.
PD1.40



1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 4 ENLARGED PLAN
SCALE: 1/8" = 1'-0"
0 4 8 16

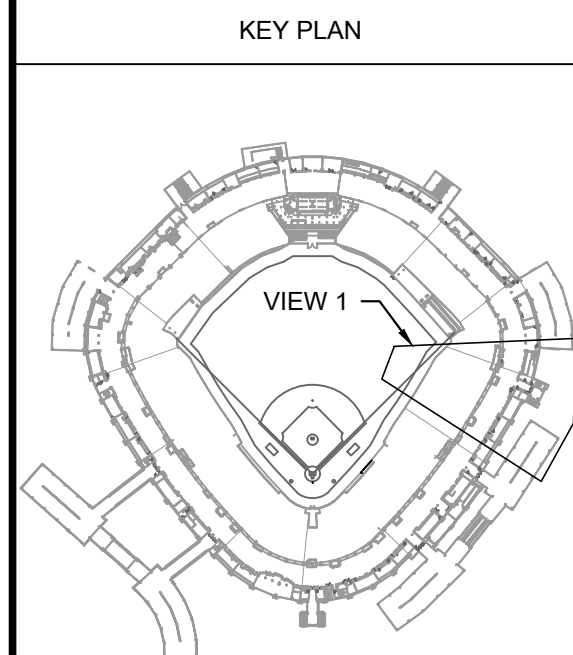
- KEYED PLUMBING DEMOLITION SHEET NOTES**
- 1

DISCONNECT AND DEMOLISH EXISTING ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CMV AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
- 2

REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.
- 3

DEMOLISH AND REMOVE EXISTING FLUSH VALVE ON EXISTING PORCELAIN FIXTURE. PROTECT FIXTURE FOR REUSE. DISCONNECT WATER AND COORDINATE SHUT DOWN OF FACILITIES PRIOR TO SCHEDULING OF WORK AND COMMENCEMENT OF DEMOLITION.
- KEYED ELECTRICAL DEMOLITION SHEET NOTES**
- 1

DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.



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DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 400 SECTION 4
ENLARGED PLAN

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



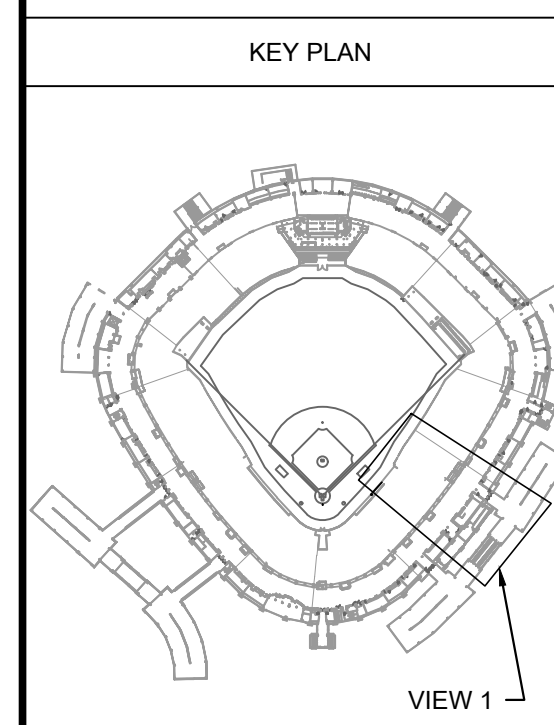
1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 5 ENLARGED PLAN
SCALE: 1/8" = 1'-0"
0 4 8 16

- KEYED PLUMBING DEMOLITION SHEET NOTES**
- 1

DISCONNECT AND DEMOLISH EXISTING ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CW AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
- 2

REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.
- KEYED ELECTRICAL DEMOLITION SHEET NOTES**
- 1

DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.

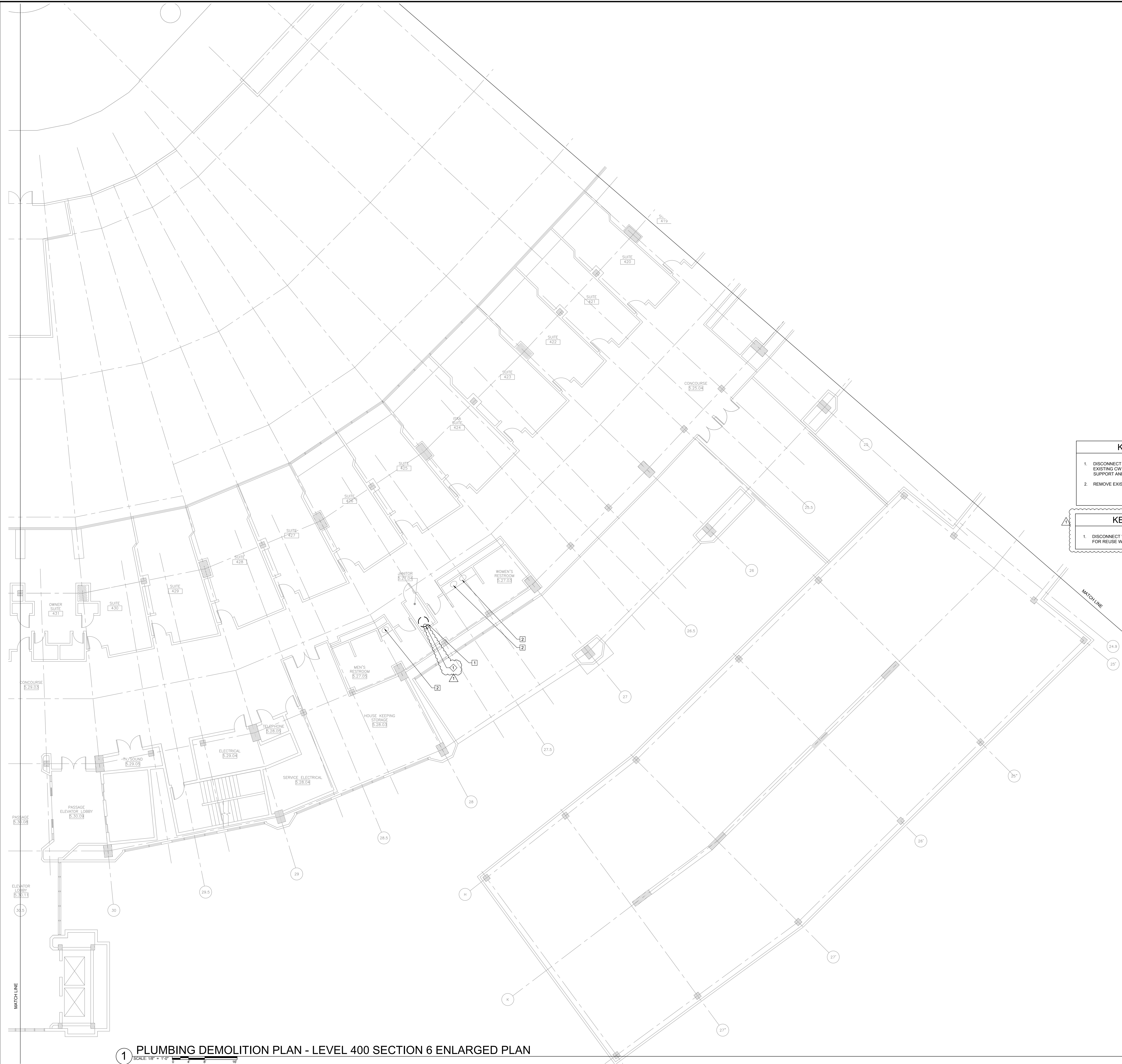


ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
1	12/27/21	ISSUE FOR BID
2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 400 SECTION 5
ENLARGED PLAN

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO.:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.:	



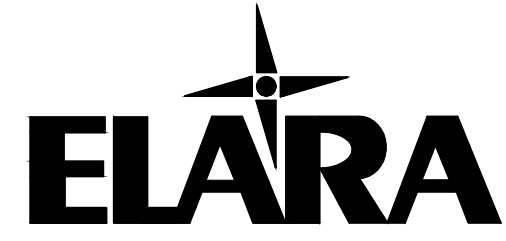
1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 6 ENLARGED PLAN

KEYED PLUMBING DEMOLITION SHEET NOTES

1. DISCONNECT AND DEMOLISH EXISTING ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CW AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
2. REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.

KEYED ELECTRICAL DEMOLITION SHEET NOTES

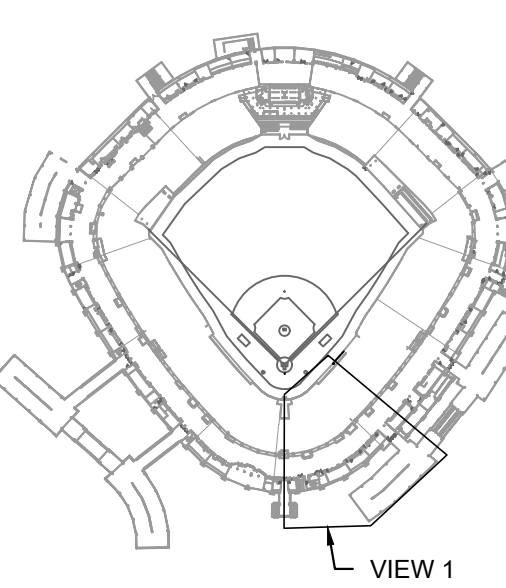
1. DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.



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WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 400 SECTION 6
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
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SCALE: 1/8" = 1'-0"
SHEET NO.

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PD1.46



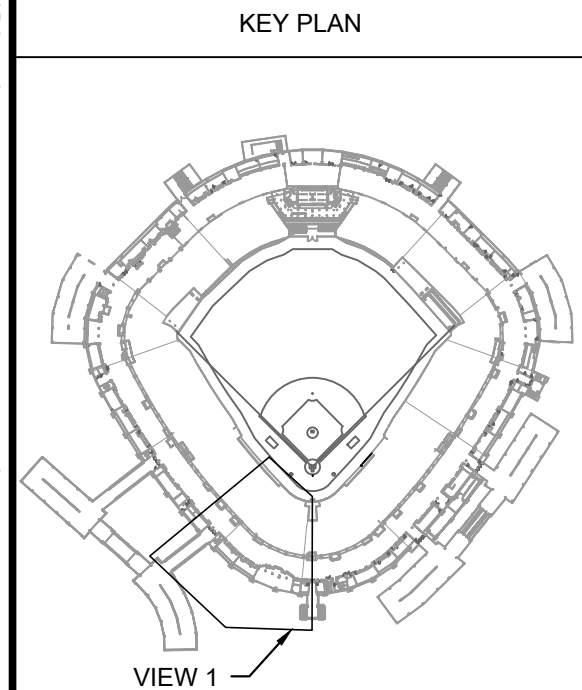
1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 7 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

KEYED PLUMBING DEMOLITION SHEET NOTES

1. DISCONNECT AND DEMOLISH EXISTING ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING COW AND HWV DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
2. REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.

KEYED ELECTRICAL DEMOLITION SHEET NOTES

1. DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.



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CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 400 SECTION 7
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.



1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 8 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

KEYED PLUMBING DEMOLITION SHEET NOTES

1. DISCONNECT AND DEMOLISH EXISTING ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CW AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.
2. REMOVE EXISTING LAVATORY FAUCET AND ASSOCIATED ACCESSORIES FROM EXISTING VANITY TOP.

KEYED ELECTRICAL DEMOLITION SHEET NOTES

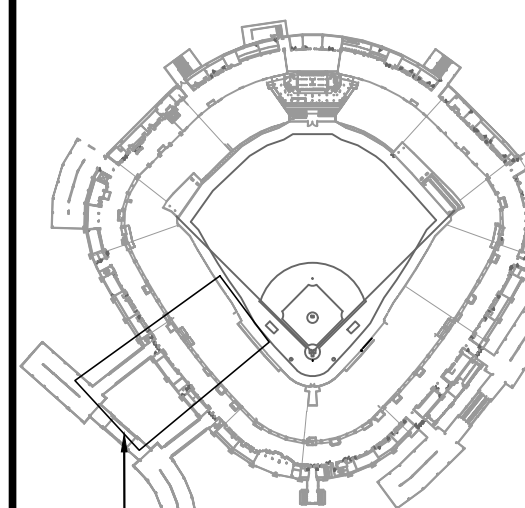
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VIEW 1

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WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 400 SECTION 8
ENLARGED PLAN

DESIGNED BY: DA

CHECKED BY: MS

PROJECT NO: 21275

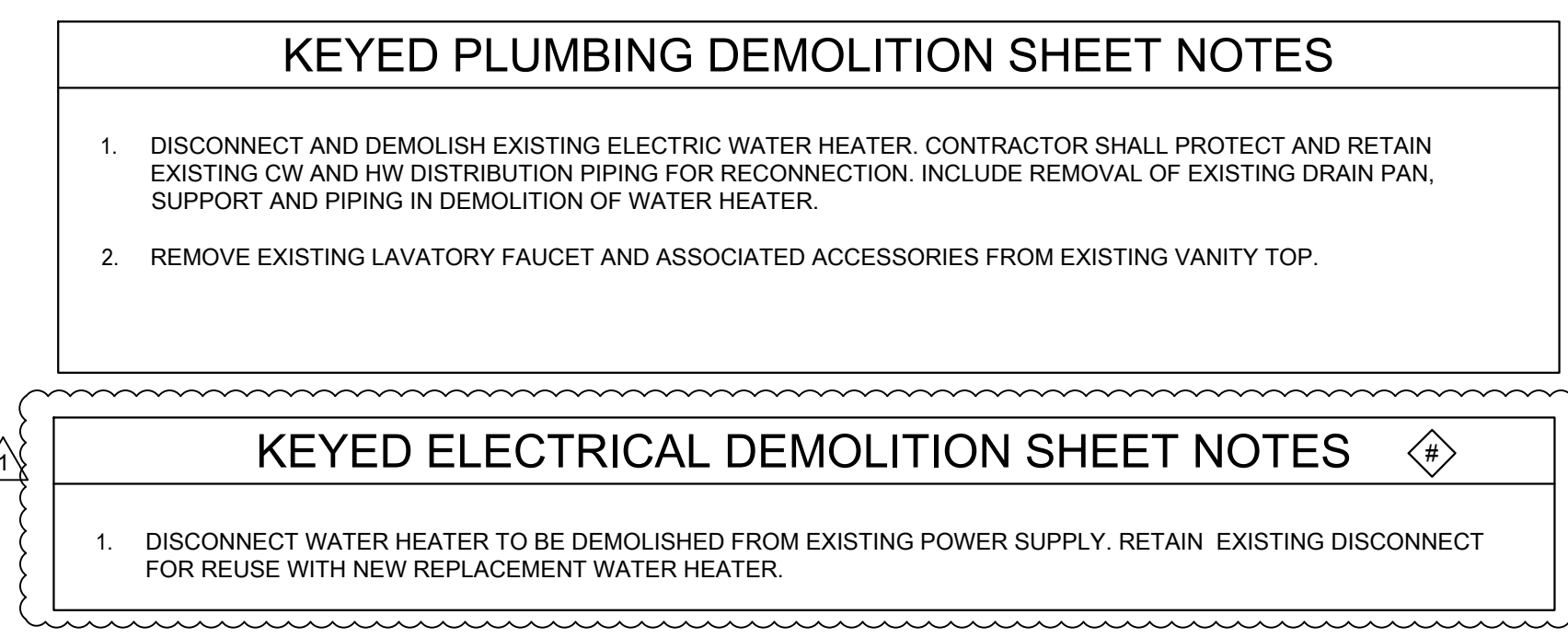
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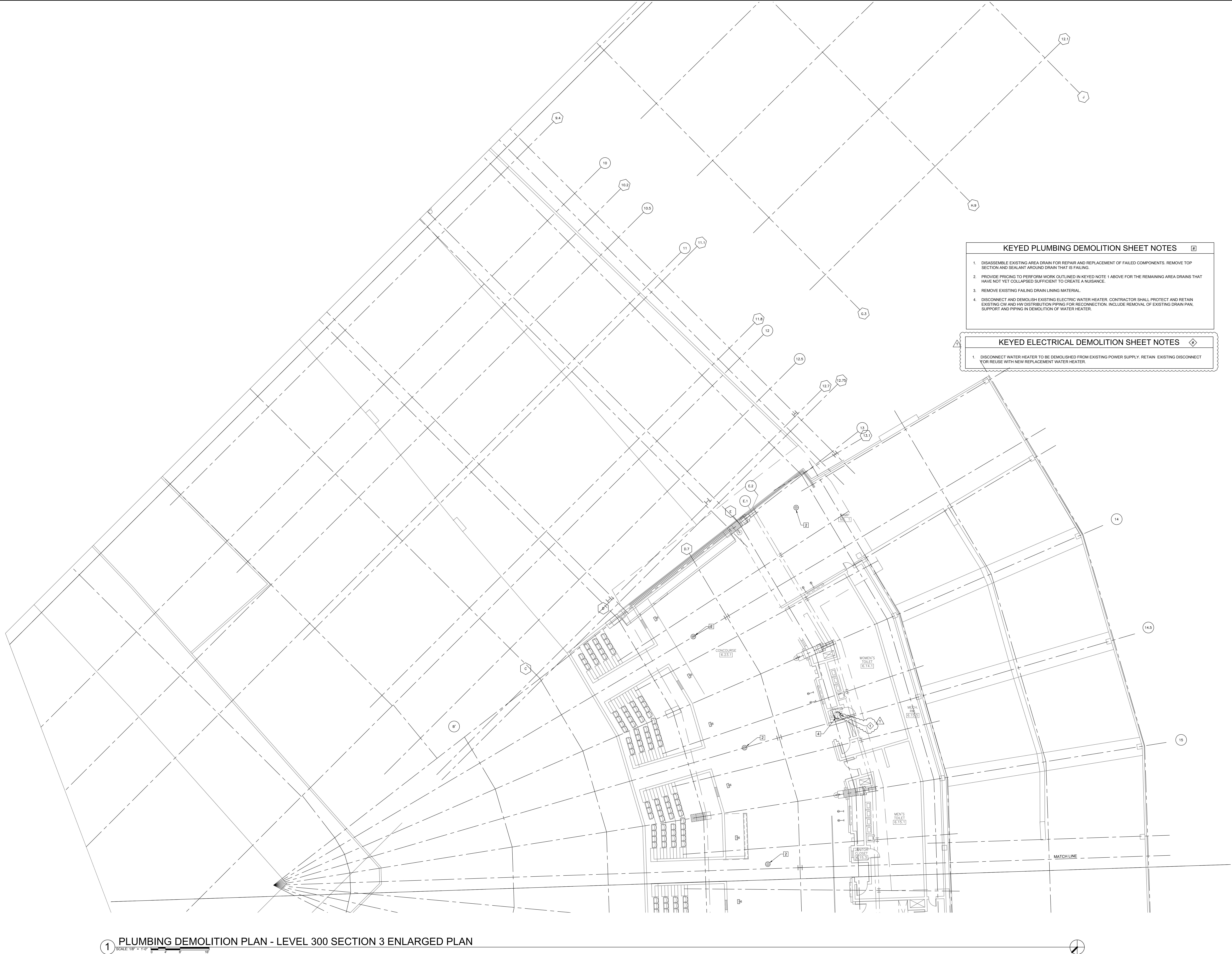
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PD1.48







PD1.53

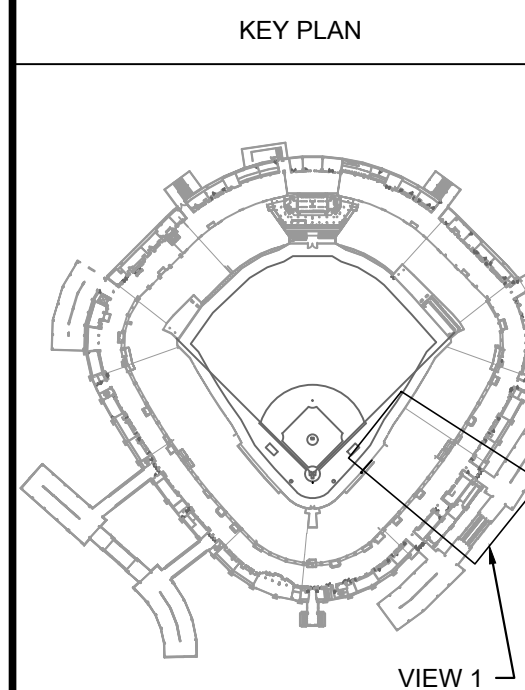


1 PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 5 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

KEYED PLUMBING DEMOLITION SHEET NOTES		
1.	DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.	
2.	PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.	
3.	REMOVE EXISTING FAILING DRAIN LINING MATERIAL.	

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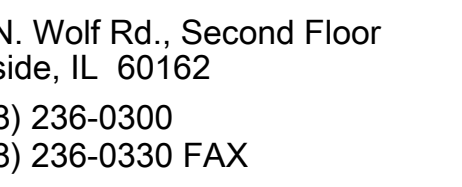
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 500 SECTION 5
ENLARGED

DESIGNED BY: DA
CHECKED BY: MS
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SCALE: 1/8" = 1'-0"
SHEET NO.

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PRELIMINARY - NOT FOR CONSTRUCTION

PD1.54



1. DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.
2. PROVIDE PRICING TO PERFORM WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
3. REMOVE EXISTING FAILING DRAIN LINING MATERIAL.
4. DISCONNECT AND DEMOLISH EXISTING ELECTRIC WATER HEATER. CONTRACTOR SHALL PROTECT AND RETAIN EXISTING CVD AND HW DISTRIBUTION PIPING FOR RECONNECTION. INCLUDE REMOVAL OF EXISTING DRAIN PAN, SUPPORT AND PIPING IN DEMOLITION OF WATER HEATER.

1. DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.

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Architectural plan of the stadium seating bowl, labeled "VIEW 1". The plan shows the diamond-shaped field, the pitcher's mound, and the bases. The seating bowl is depicted with various tiers and sections, including the press box and other amenities. The plan is oriented with home plate at the bottom center.

DATE	DESCRIPTION
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2021	ISSUE FOR BID
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2027/21	840 ADDENDUM #
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35TH STREET,

AGO, ILLINOIS 60610

CAMPING DEMOI

LEVEL 500 SECTION

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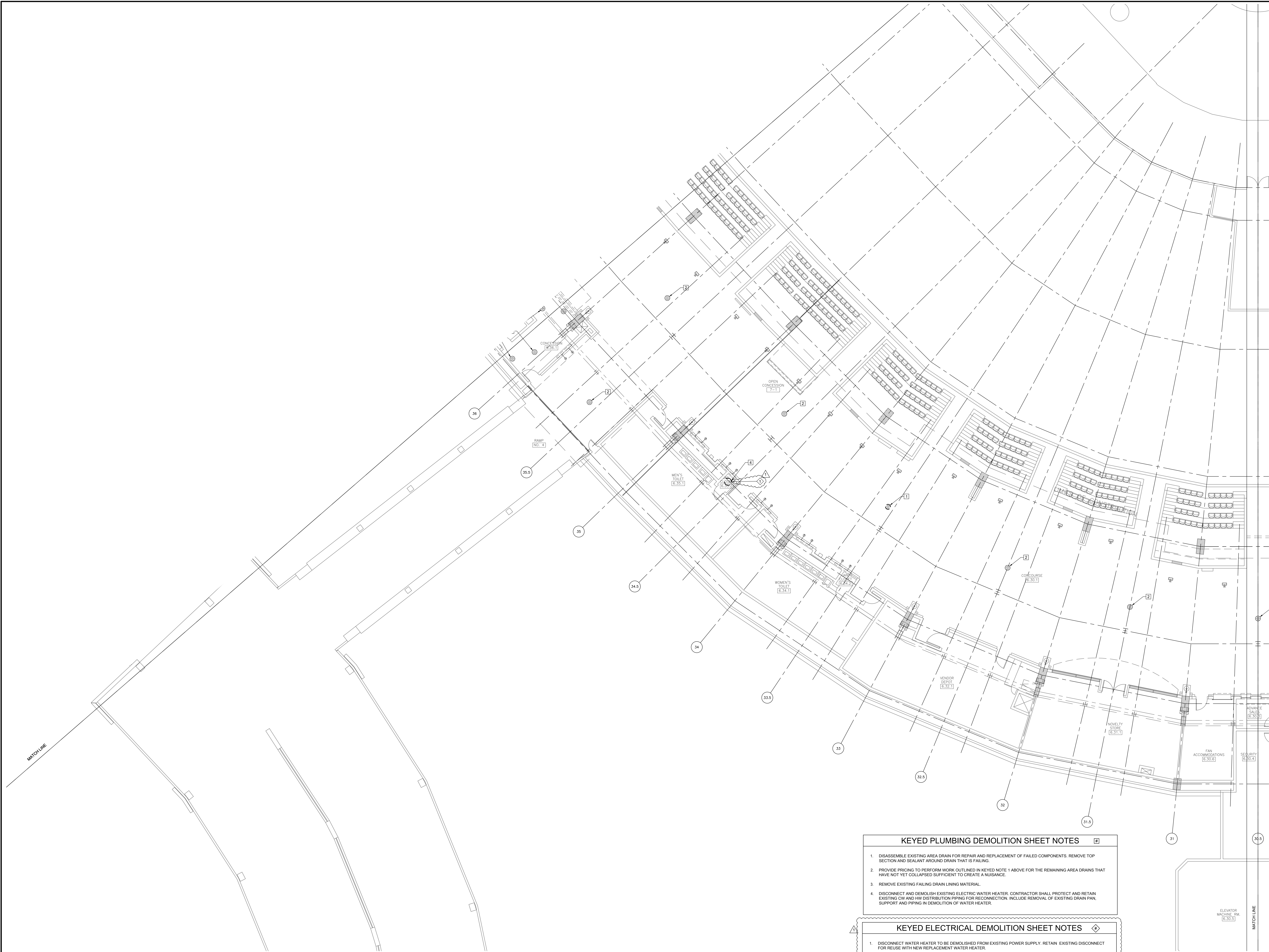
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1 PLUMBING DEMOLITION PLAN - LEVEL 500 SECTION 7 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

KEYED PLUMBING DEMOLITION SHEET NOTES

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VIEW 1

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PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 500 SECTION 7
ENLARGED

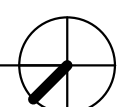
DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



- KEYED PLUMBING DEMOLITION SHEET NOTES**
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 3. REMOVE EXISTING FAILING DRAIN LINING MATERIAL.

1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 8 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



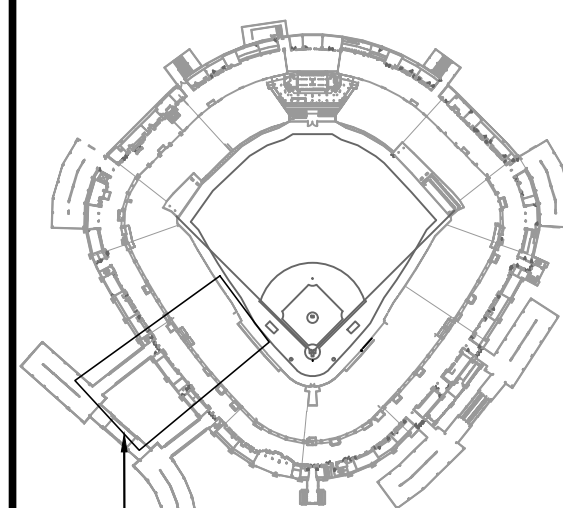
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VIEW 1

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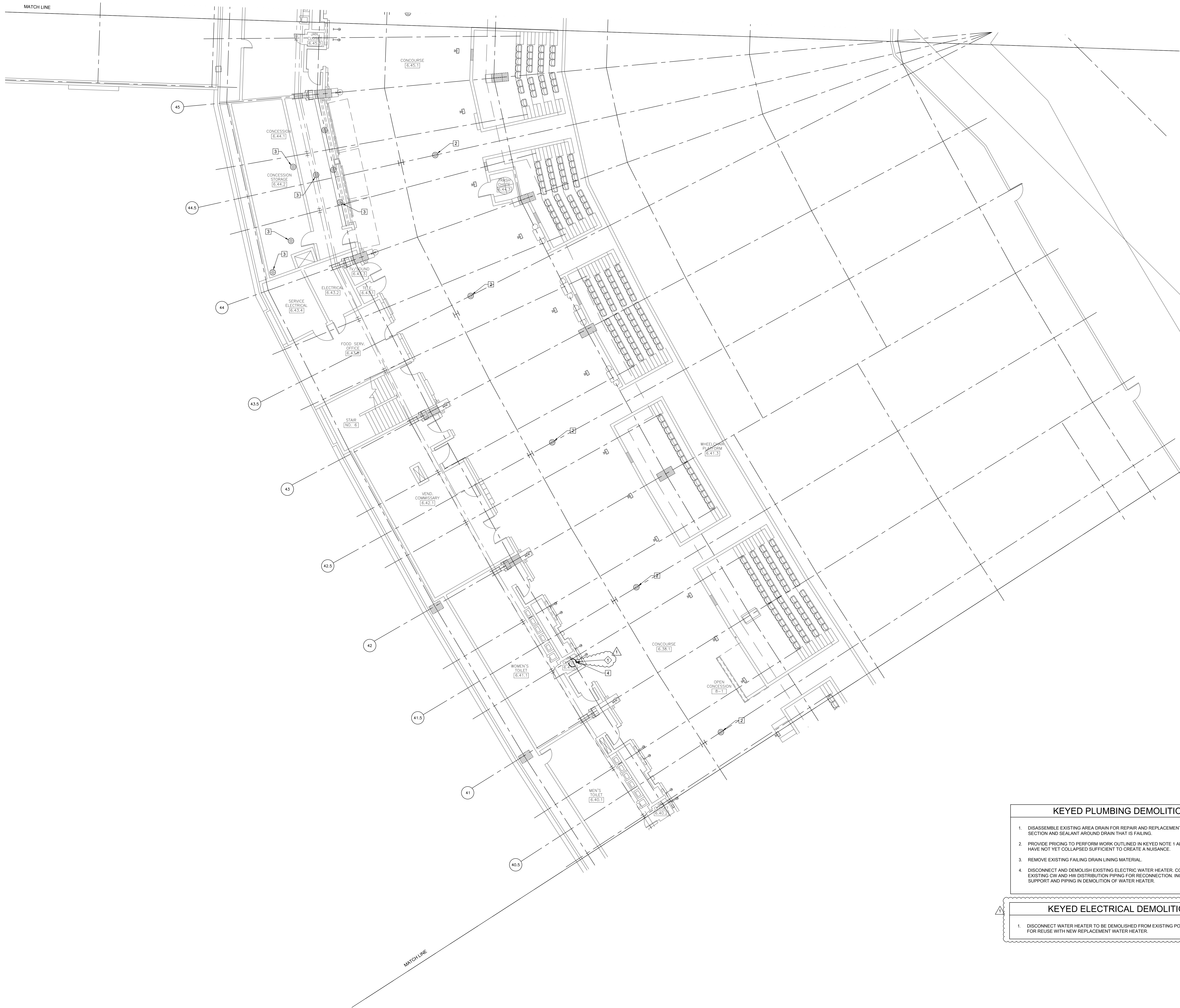
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 500 SECTION 8
ENLARGED

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO.

PD1.57

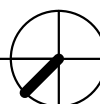


- KEYED PLUMBING DEMOLITION SHEET NOTES**
1. DISASSEMBLE EXISTING AREA DRAIN FOR REPAIR AND REPLACEMENT OF FAILED COMPONENTS. REMOVE TOP SECTION AND SEALANT AROUND DRAIN THAT IS FAILING.
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- KEYED ELECTRICAL DEMOLITION SHEET NOTES**
1. DISCONNECT WATER HEATER TO BE DEMOLISHED FROM EXISTING POWER SUPPLY. RETAIN EXISTING DISCONNECT FOR REUSE WITH NEW REPLACEMENT WATER HEATER.

1 PLUMBING DEMOLITION PLAN - LEVEL 200 SECTION 9 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



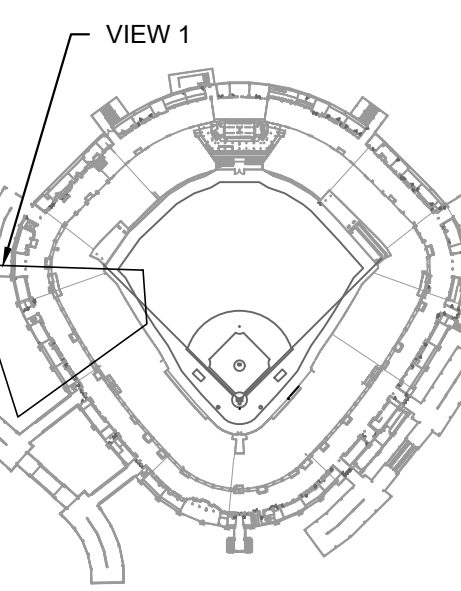
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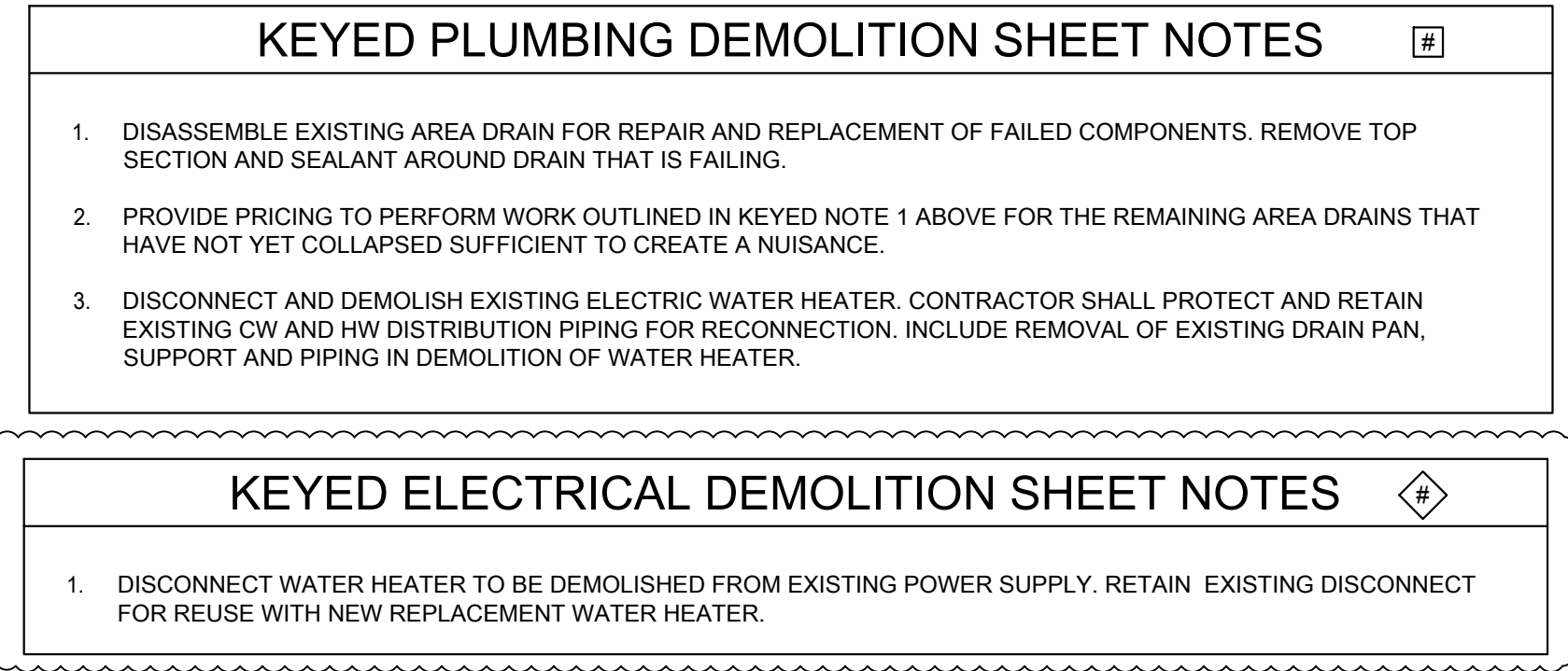
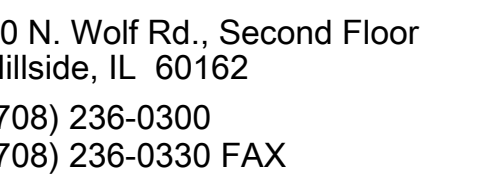
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING DEMOLITION PLAN
- LEVEL 200 SECTION 9
ENLARGED

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

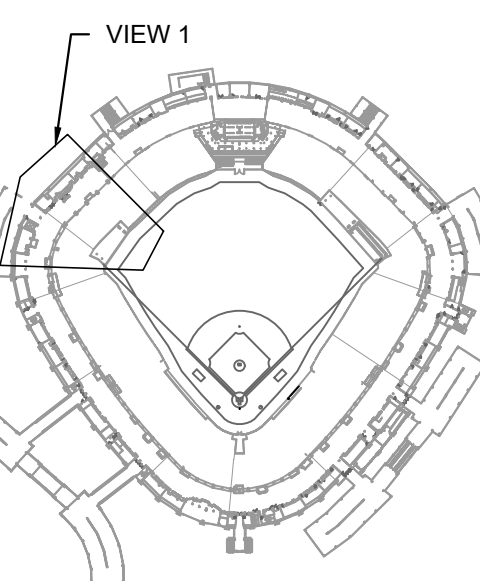
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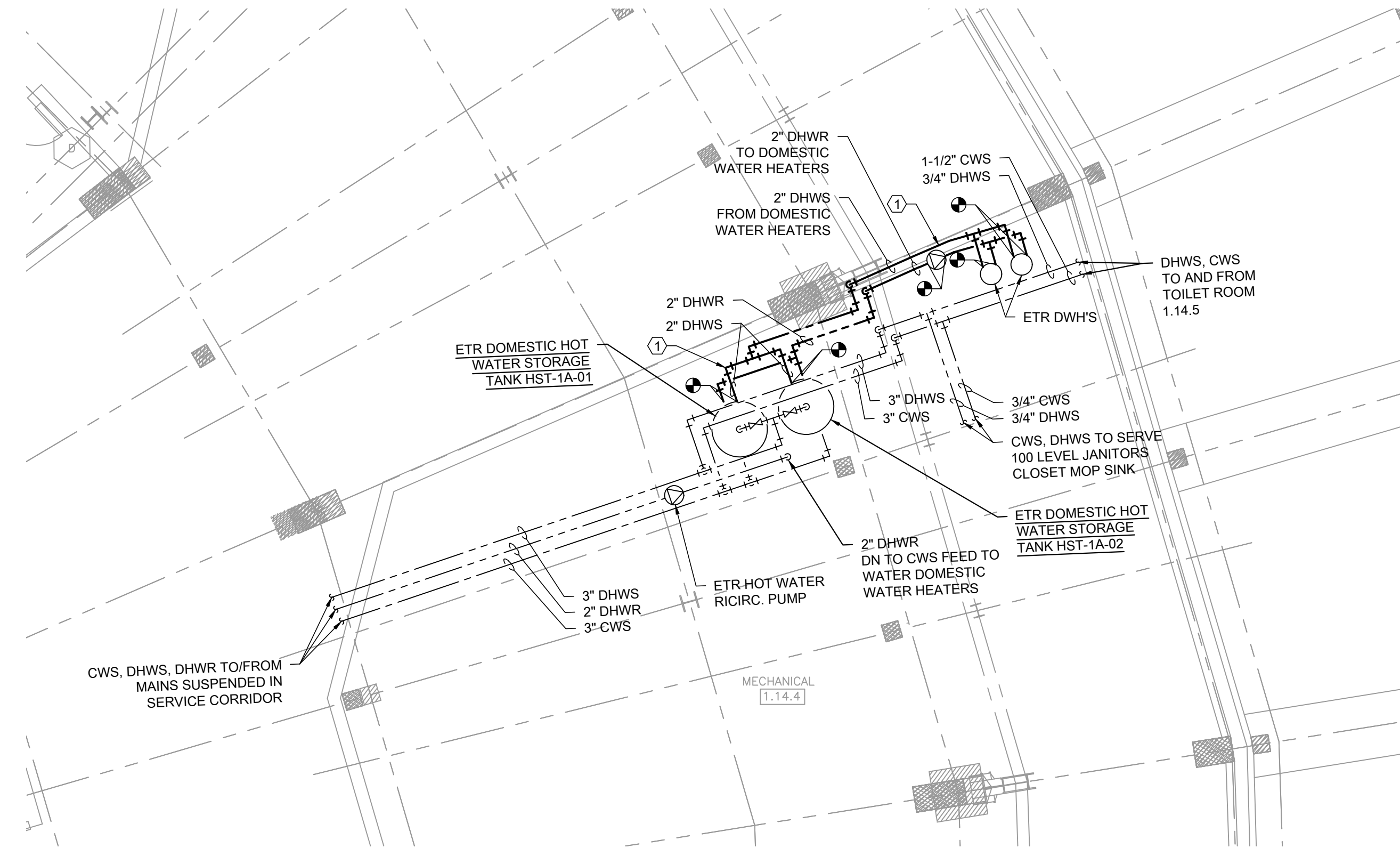
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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
14 W 35TH STREET,
CHICAGO, ILLINOIS 60616

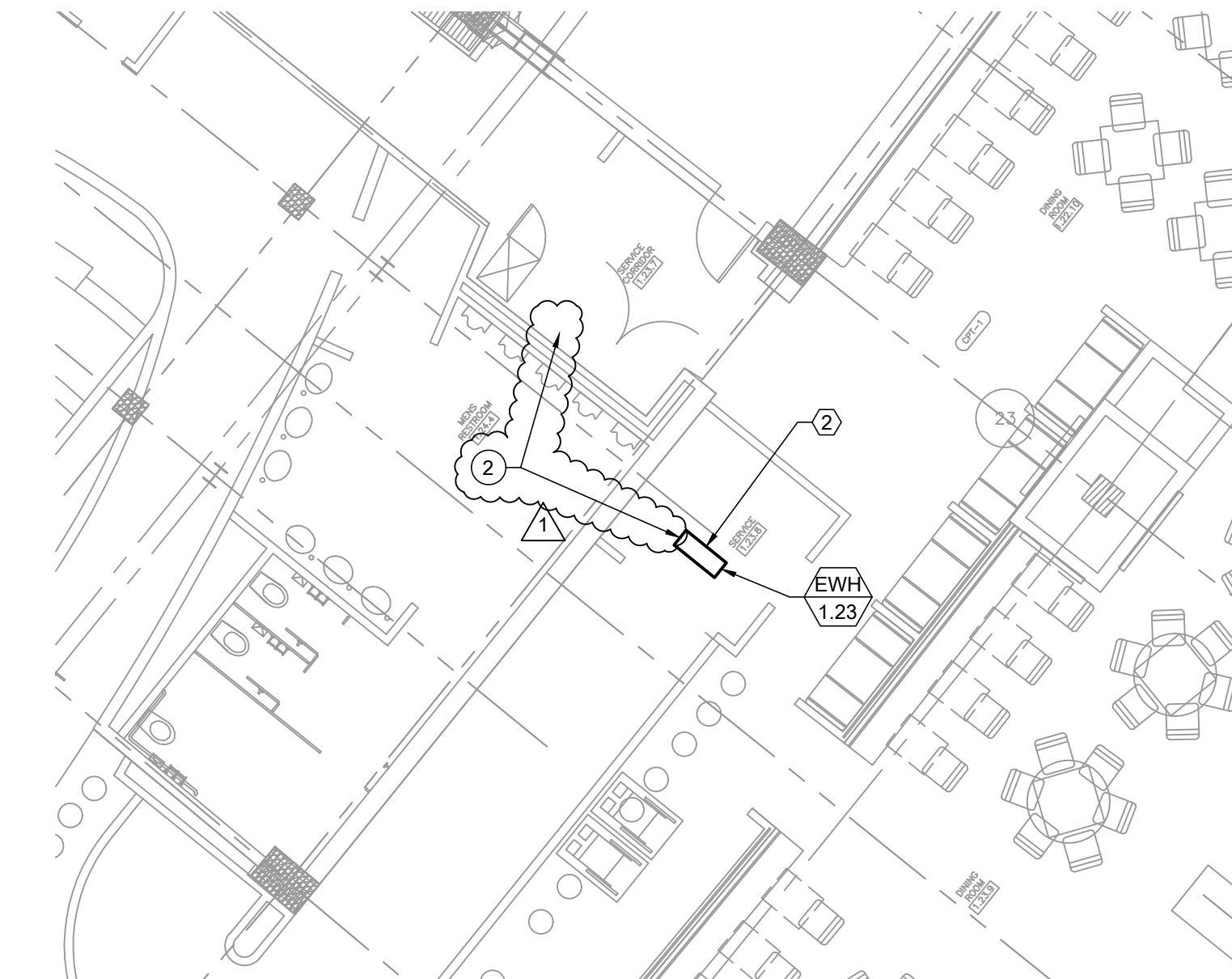
AWING TITLE:
 LUMBING DEMOLITION PLAN
 LEVEL 500 SECTION 10
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SIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

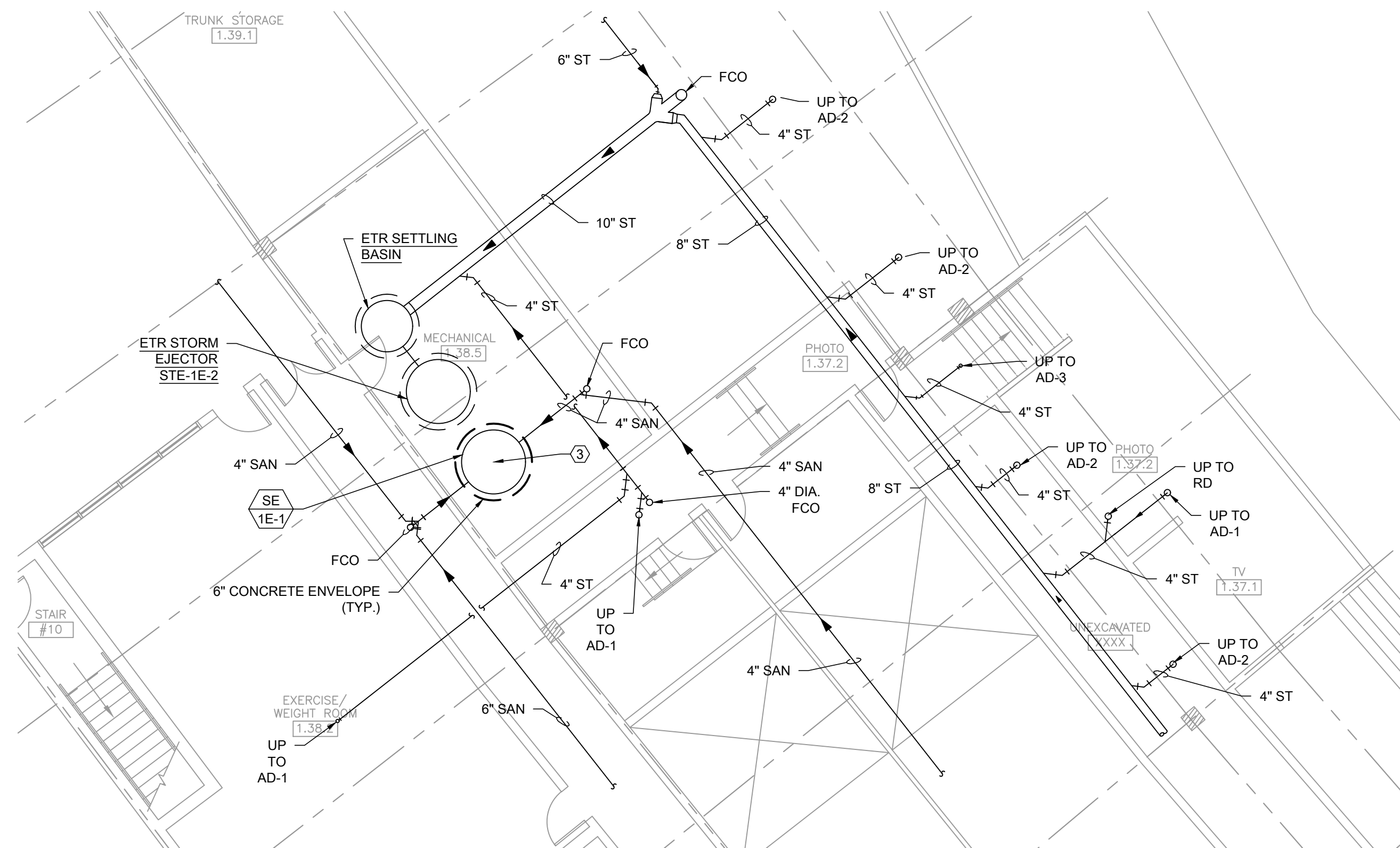
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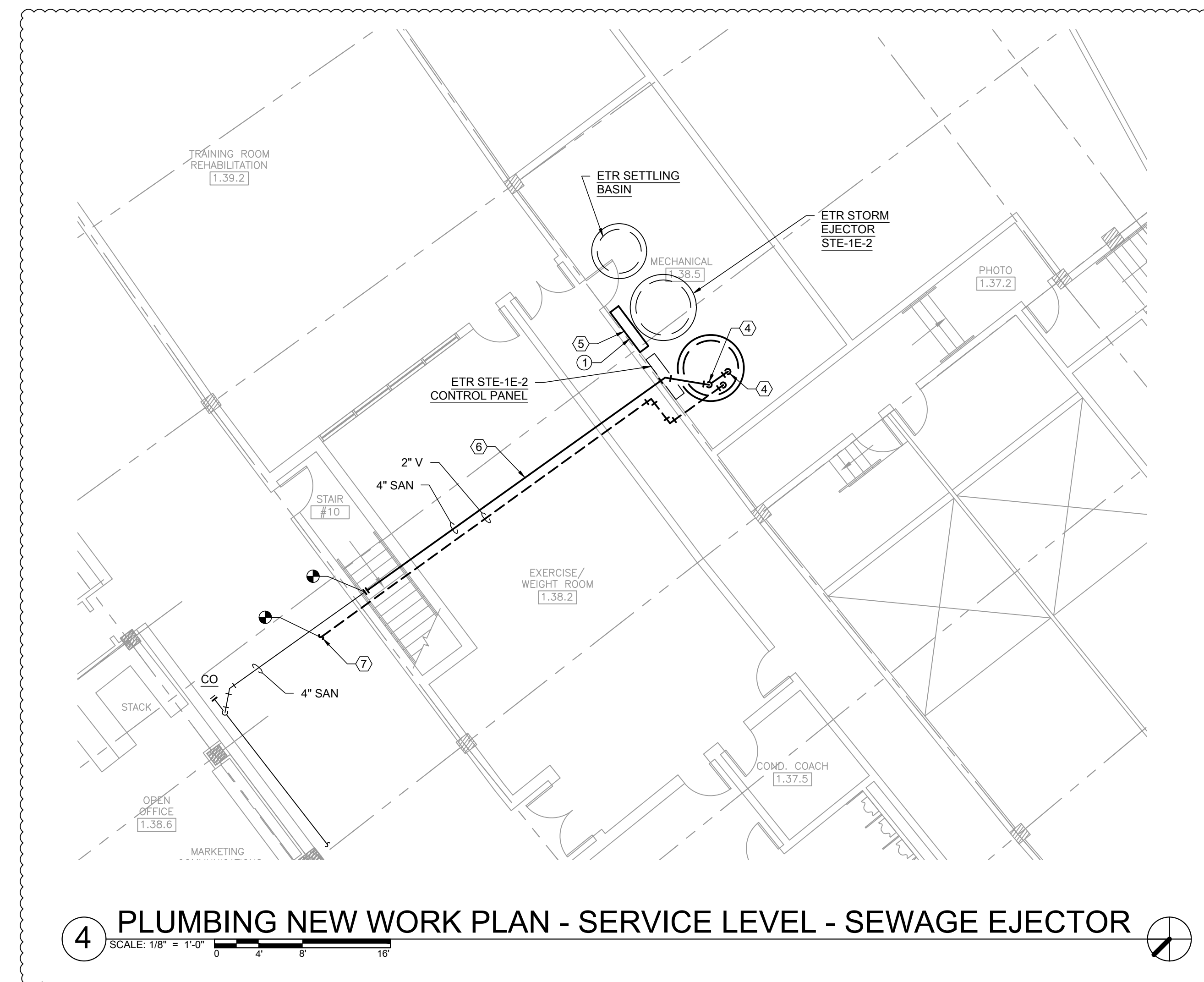
1 PLUMBING NEW WORK PLAN - SERVICE LEVEL - CENTRAL WATER HEATERS



2 PLUMBING NEW WORK PLAN - SERVICE LEVEL - SCOUTS LOUNGE



3 PLUMBING NEW WORK PLAN - SERVICE LEVEL (UNDERGROUND) - SEWAGE EJECTOR



4 PLUMBING NEW WORK PLAN - SERVICE LEVEL - SEWAGE EJECTOR

KEYED PLUMBING NEW WORK SHEET NOTES

- FURNISH AND INSTALL NEW DOMESTIC HOT WATER PIPING BETWEEN EXISTING DOMESTIC WATER HEATERS AND EXISTING STORAGE TANKS. REFER TO SCHEMATIC PIPING DIAGRAM ON DRAWING P2.01. NEW PIPING, VALVES, AND CONNECTED ACCESSORIES SHALL UTILIZE MATERIALS RATED FOR 160° F WATER TEMPERATURE AND 300# PRESSURE CLASS. PIPING SHALL BE FLUSHED PRIOR TO FINAL CONNECTION AND FILL. ALL COMPONENTS SHALL BE NSF 61 COMPLIANT FOR POTABLE WATER.
- FURNISH AND INSTALL NEW INSTANTANEOUS WATER HEATER ABOVE ACCESSIBLE CEILING. CONTRACTOR SHALL CONSTRUCT A SUPPORT FRAME SUITABLE FOR CARRYING THE WEIGHT OF THE WATER HEATER, CONNECTED PIPING, AND WATER AND SUPPORT IT INDEPENDENTLY FROM THE STRUCTURE ABOVE. FRAME SHALL BE LOCATED SO AS TO ALLOW HEATER TO BE MOUNTED JUST ABOVE AND SERVICEABLE FROM AN OPEN CEILING TILE.
- FURNISH AND INSTALL NEW DUPLEX SEWAGE EJECTOR PUMP SE-1E-1 SERVING CLUBHOUSE RESTROOMS. PROVIDE WITH METAL TO METAL TRACK SYSTEM FOR LIFTING PUMPS OUT OF BASIN AND A NEW LID FOR IMPROVED MAINTENANCE ACCESS.
- CONNECT NEW CAST IRON SANITARY PIPING TO PUMP OUTLETS FROM NEW SE-1E-1 DUPLEX SEWAGE EJECTOR. PROVIDE GATE VALVE AND CHECK VALVE PER DETAIL AS REQUIRED BY CHICAGO CODE.
- INSTALL NEW SEWAGE EJECTOR CONTROL PANEL FOR NEW SEWAGE EJECTOR SE-1E-1. PANEL SHALL HOUSE THE NEW FLOAT BASED PUMP CONTROLLER. UNIT SHALL BE CAPABLE OF COMMUNICATING WITH EXISTING AUTOMATION SYSTEM AS WELL AS LOCAL ALARMS OR WARNING LIGHTS IDENTIFYING A FLOAT OR PUMP FAILURE.
- REPLACE EXISTING GALVANIZED SANITARY PIPING WITH NEW CAST IRON PIPE. PROTECT WEIGHT ROOM EQUIPMENT AND SURFACES DURING PIPING REPLACEMENT.
- PROVIDE NEW 2" VENT LINE FOR SEWAGE EJECTOR PIT. CONNECT TO CLOSEST VENT RISER. CONTRACTOR TO FIELD VERIFY.

KEYED ELECTRICAL NEW WORK SHEET NOTES

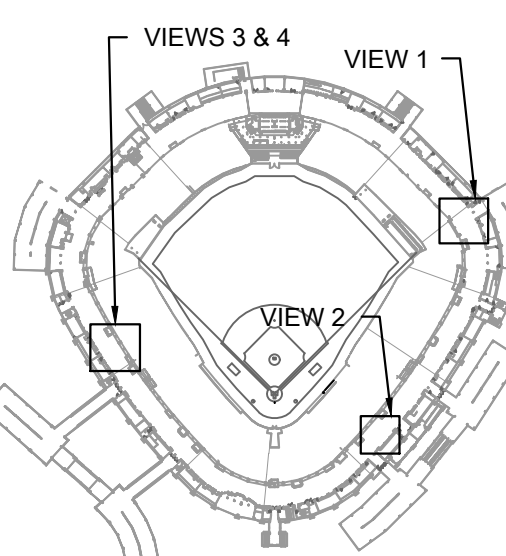
- REFER TO MANUFACTURERS POWER REQUIREMENTS FOR NEW SEWAGE EJECTOR PUMPS. PROVIDE NEW CONDUCTORS FROM EXISTING PANEL LOCATED IN ADJACENT ELECTRICAL ROOM.
- PROVIDE NEW POWER FEED TO NEW INSTANTANEOUS WATER HEATER. ELECTRICAL DISTRIBUTION FOR WATER HEATER IS LOCATED IN ADJACENT CORRIDOR.



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WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

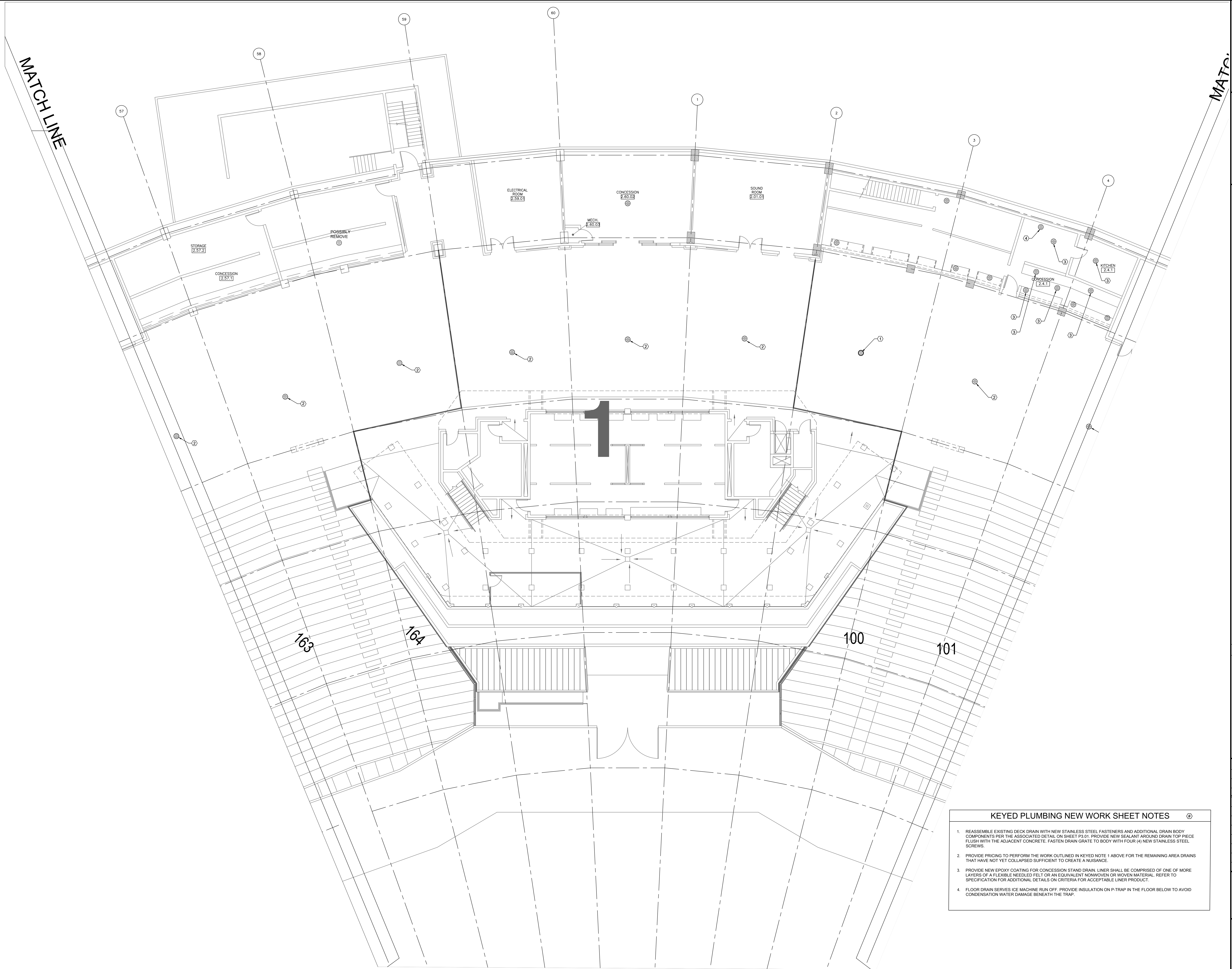
PLUMBING NEW WORK PLAN -
SERVICE LEVEL

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

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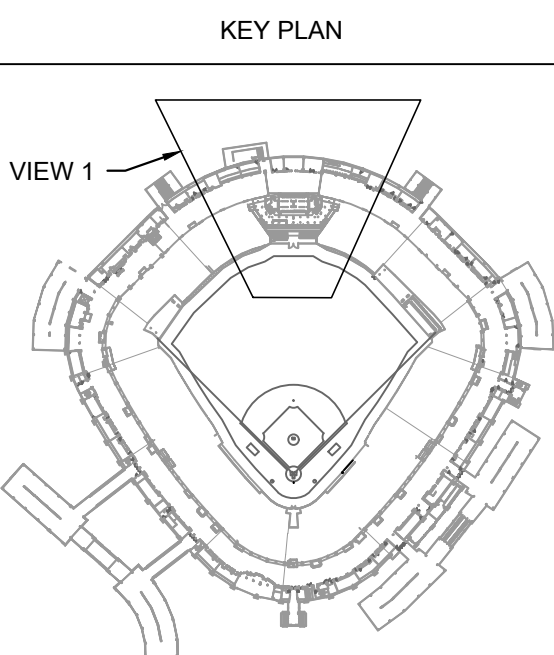
P1.01



1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 1 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

- KEYED PLUMBING NEW WORK SHEET NOTES**
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P3.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
 2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. PROVIDE NEW EPOXY COATING FOR CONCESSION STAND DRAIN. LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
 4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.

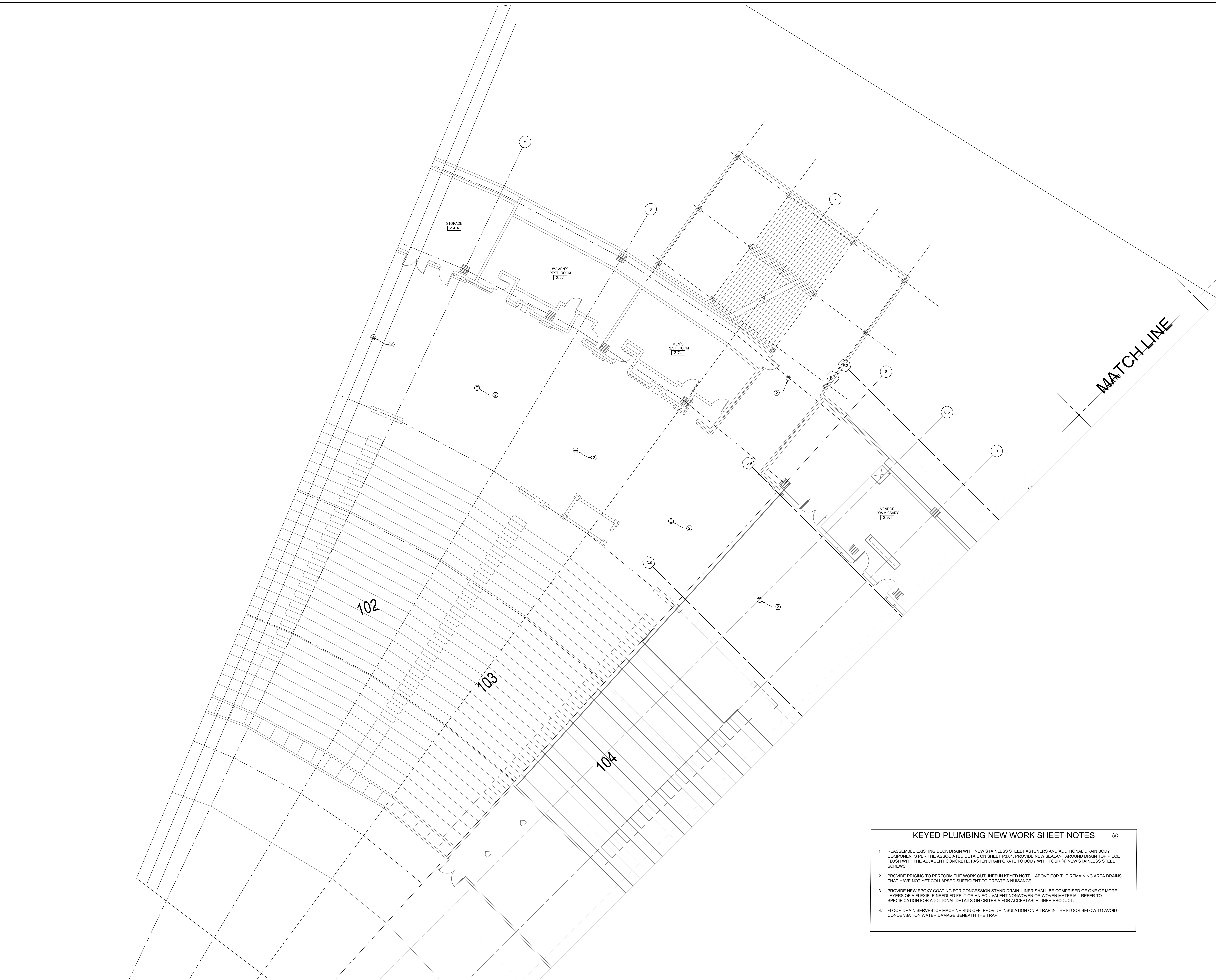


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333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

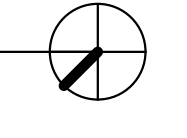
DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 1
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.



1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 2 ENLARGED PLAN

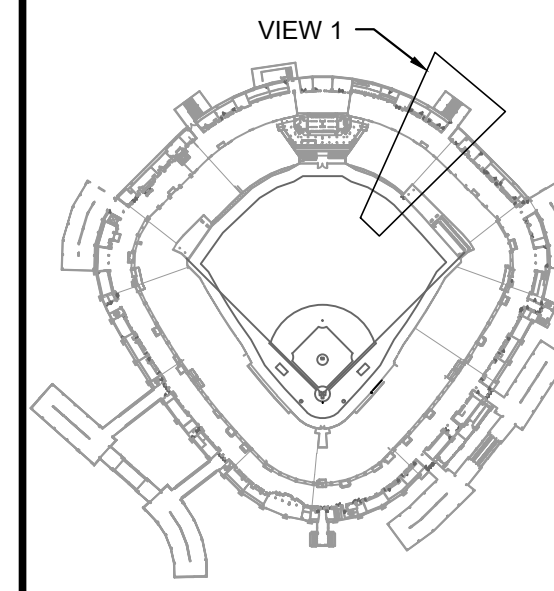
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- KEYED PLUMBING NEW WORK SHEET NOTES**
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P3.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
 2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. PROVIDE NEW EPOXY COATING FOR CONCESSION STAND DRAIN. LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDLED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
 4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.



KEY PLAN

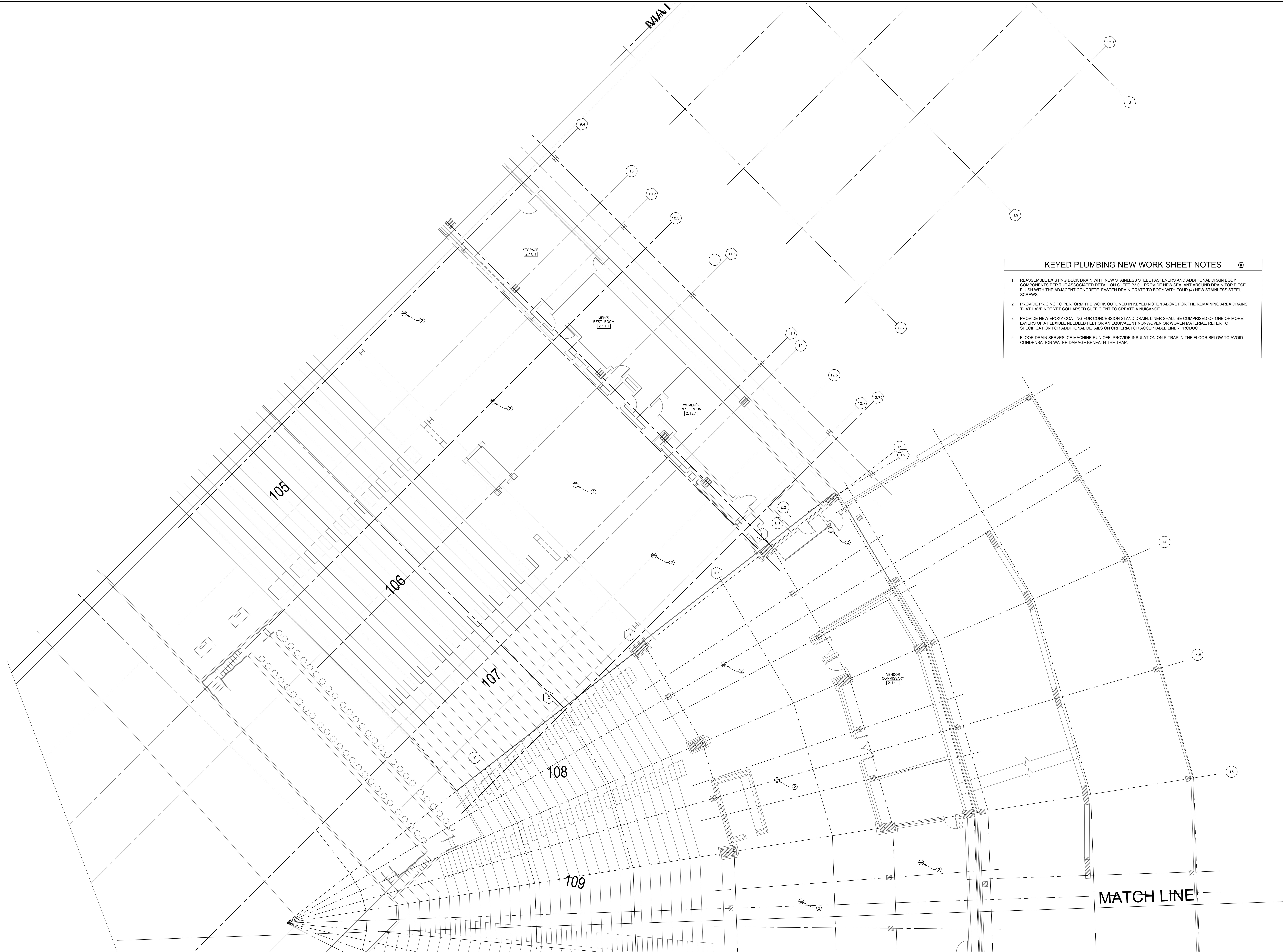


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REV.	DATE	DESCRIPTION
1	12/27/21	ISSUE FOR BID
2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 2
ENLARGED PLAN

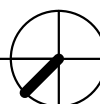
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PROJECT NO:	21275
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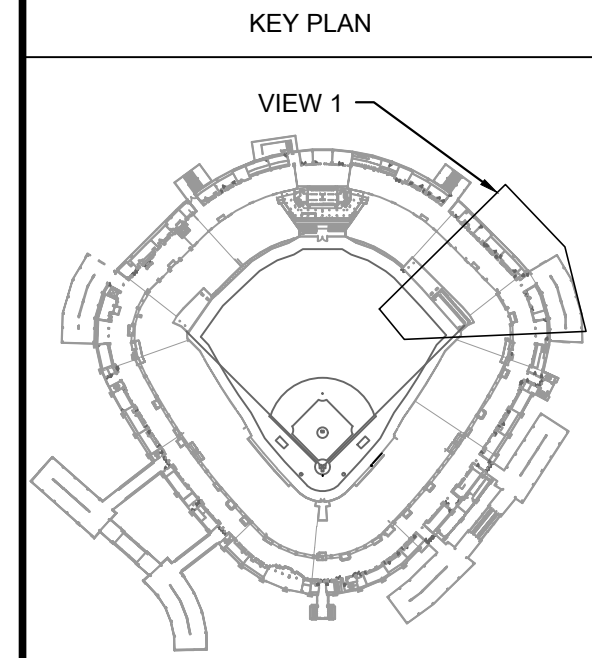
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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 3 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



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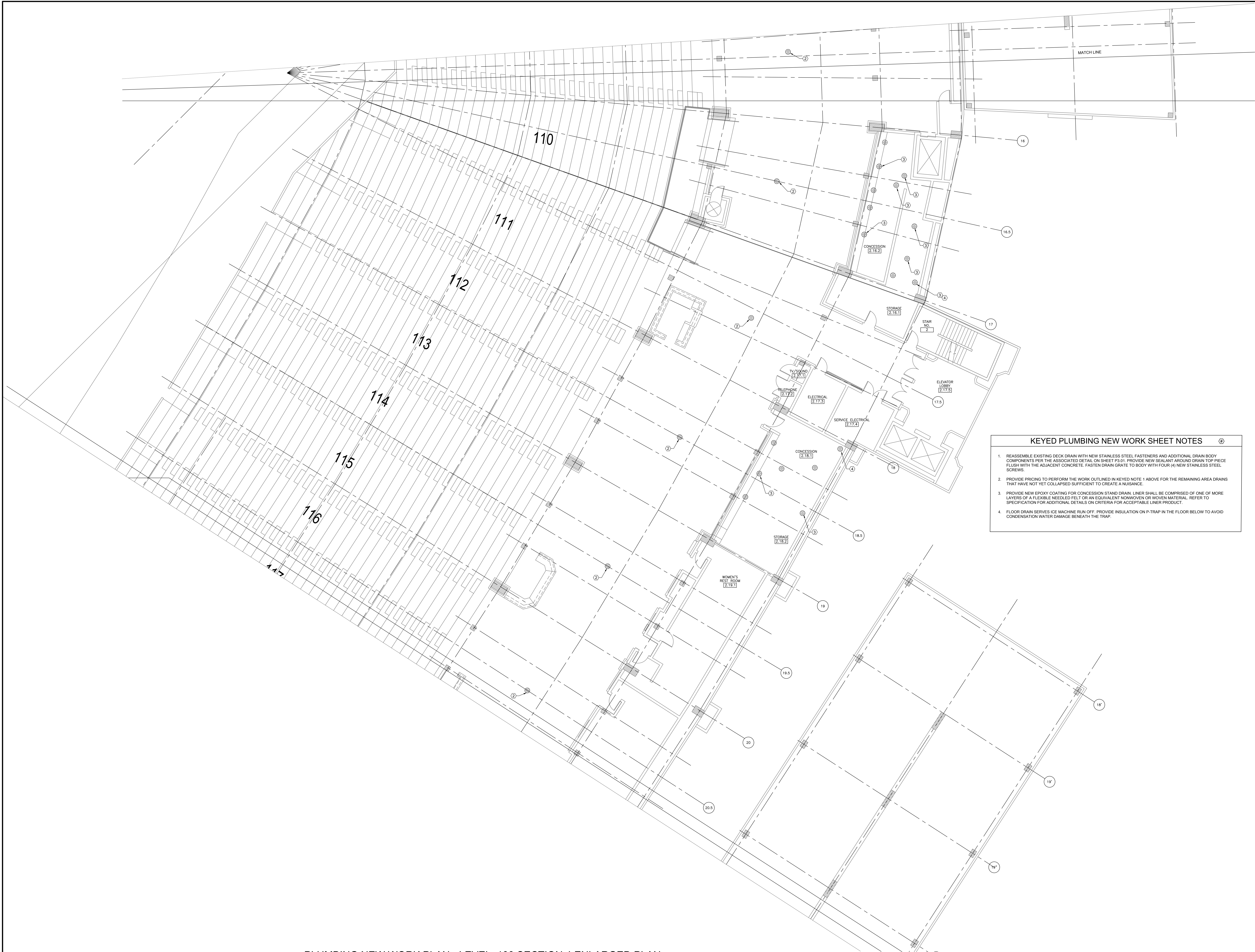


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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

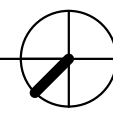
DRAWING TITLE:
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LEVEL 100 SECTION 3
ENLARGED PLAN

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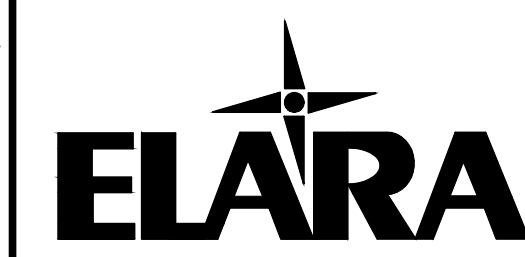


1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 4 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



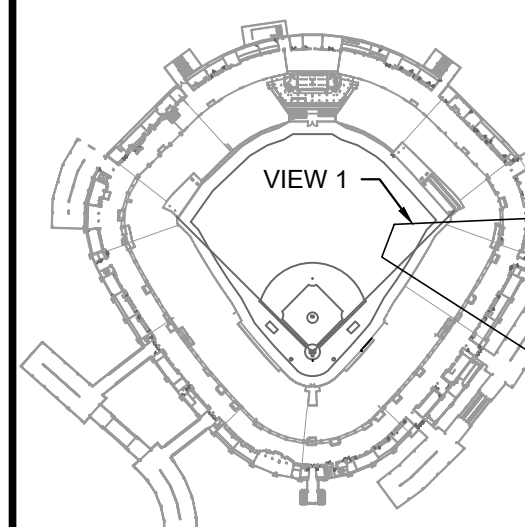
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PROJECT:
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PHASE X

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LEVEL 100 SECTION 4
ENLARGED PLAN

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SCALE: 1/8" = 1'-0"
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P1.17



- KEYED PLUMBING NEW WORK SHEET NOTES**
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P1.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 5 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

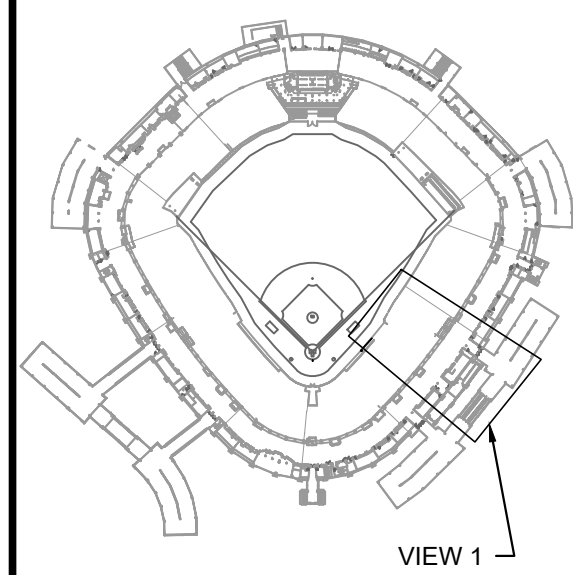
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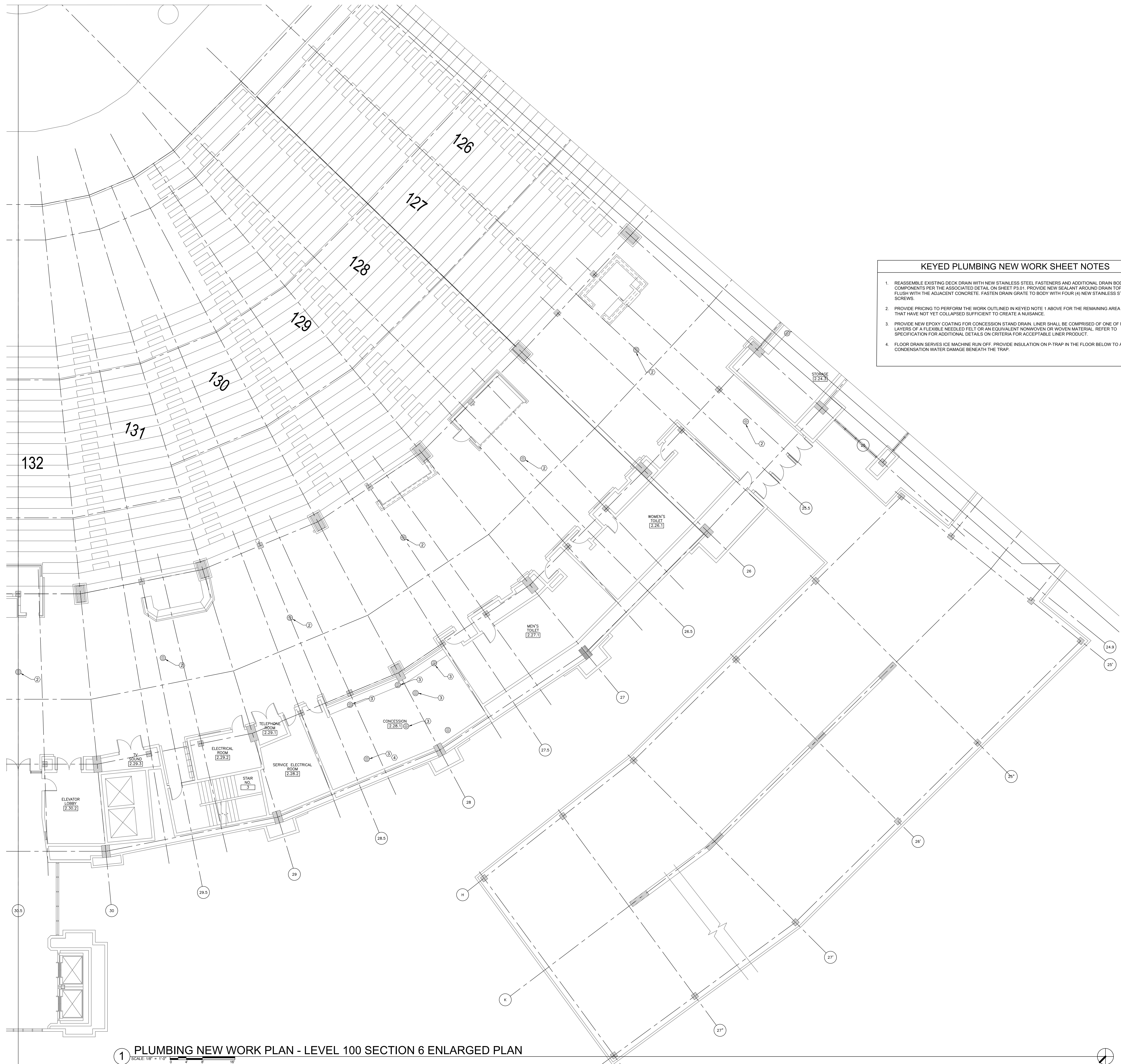
REV.	DATE	DESCRIPTION
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2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

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DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 5
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.



- KEYED PLUMBING NEW WORK SHEET NOTES** Ⓢ
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P3.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 6 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

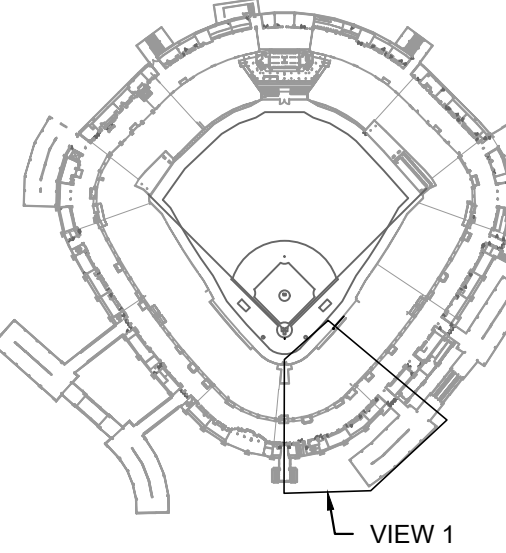
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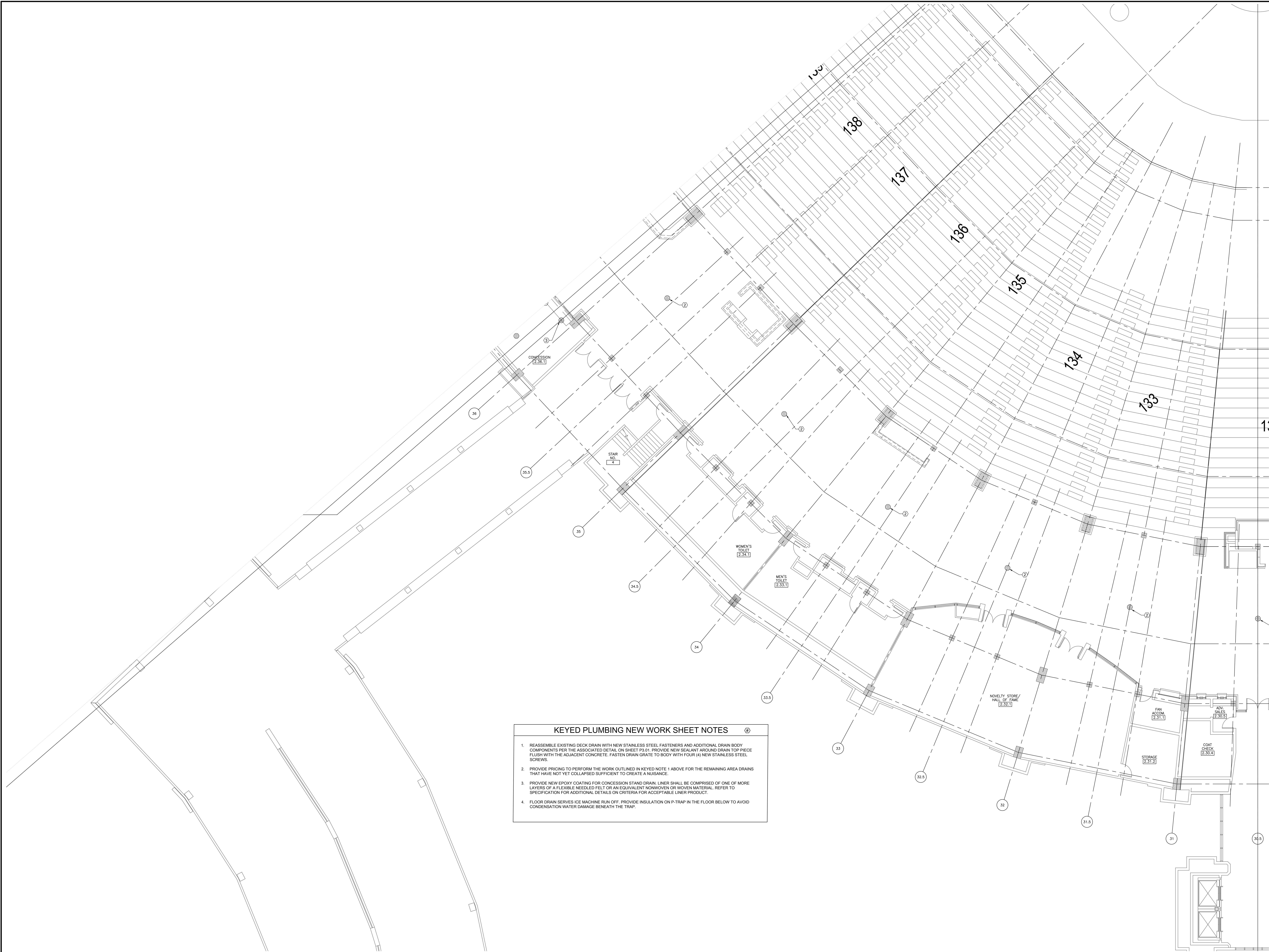
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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 6
ENLARGED PLAN

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PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

P1.19



KEYED PLUMBING NEW WORK SHEET NOTES

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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 6 ENLARGED PLAN

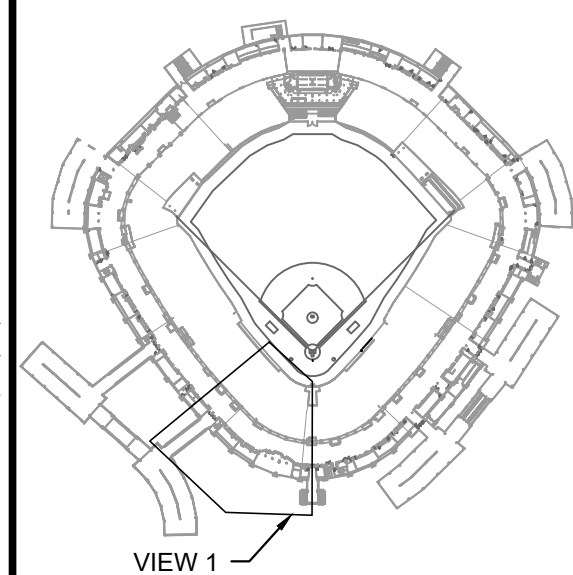
SCALE: 1/8" = 1'-0"



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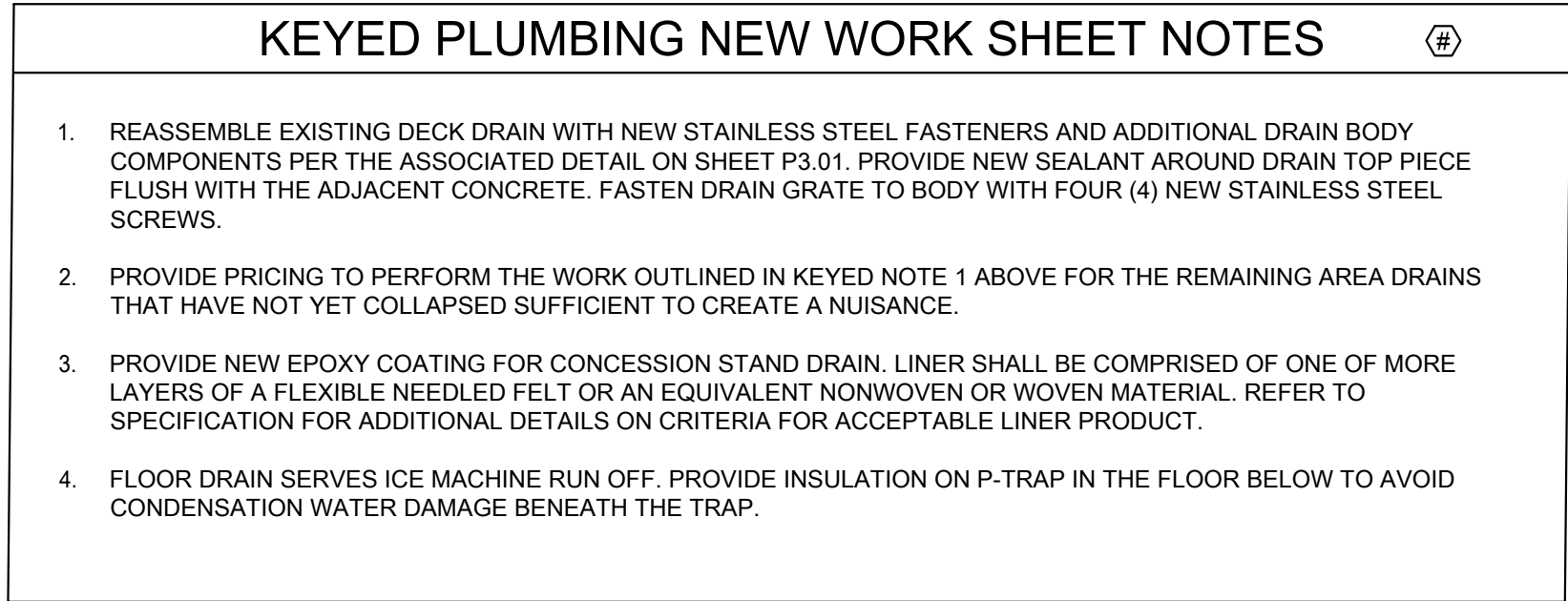
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 7
ENLARGED PLAN

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CHECKED BY:	MS
PROJECT NO.:	21275
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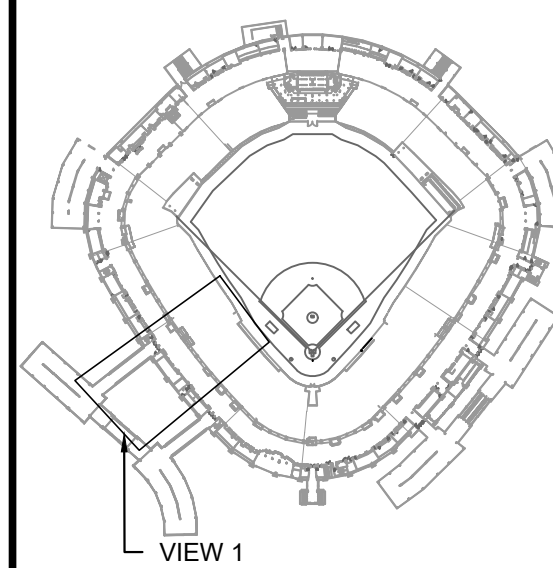
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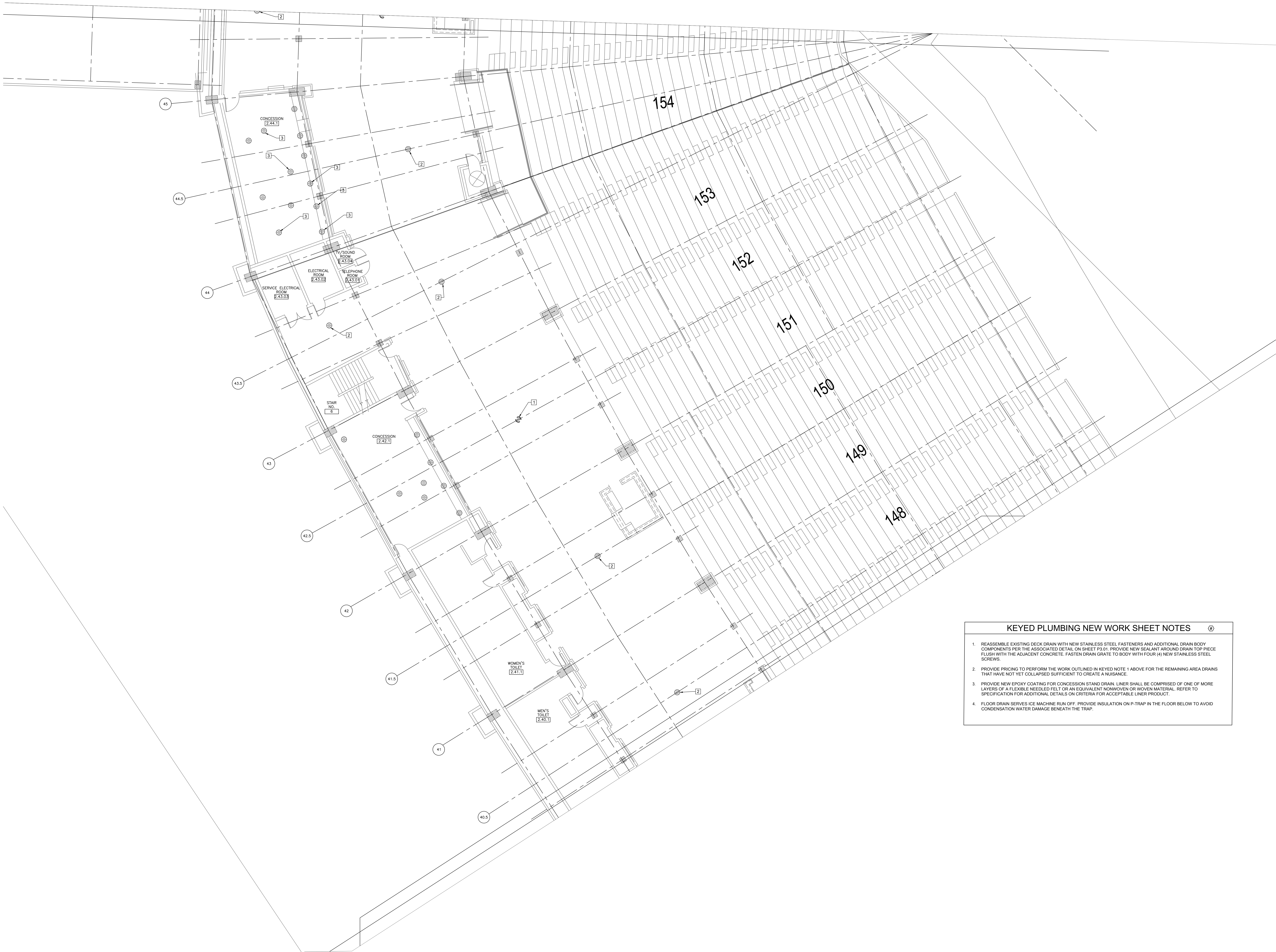
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

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DRAWING TITLE:
PLUMBING NEW WORK PLAN
LEVEL 100 SECTION 8
ENLARGED PLAN

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SCALE:	1/8" = 1'-0"

P1.21



- KEYED PLUMBING NEW WORK SHEET NOTES**
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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 9 ENLARGED PLAN

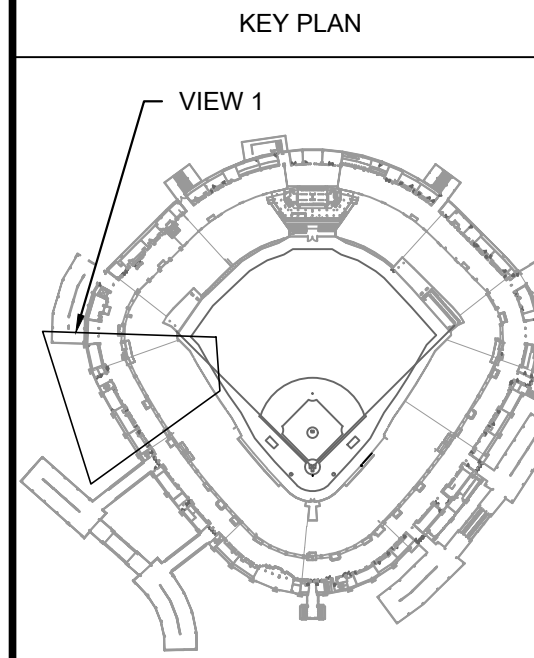
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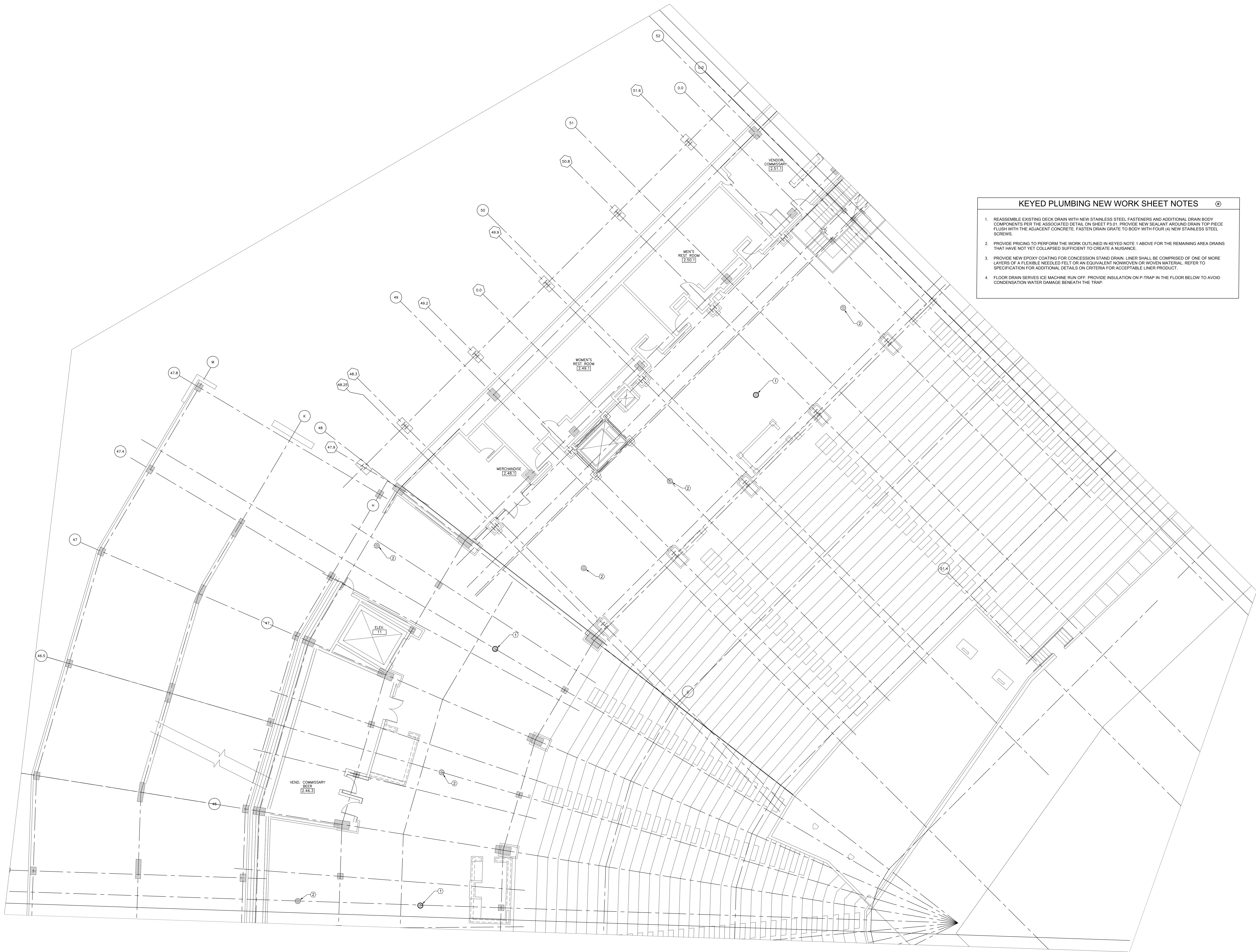
PROJECT:
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WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 9
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
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SHEET NO.

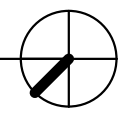
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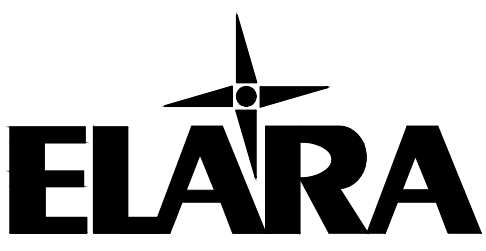
- KEYED PLUMBING NEW WORK SHEET NOTES**
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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 10 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



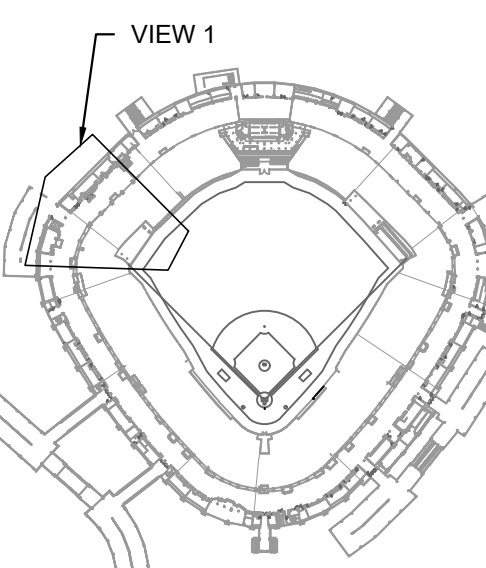
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WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 10
ENLARGED PLAN

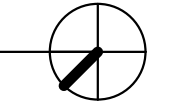
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SHEET NO.



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1 PLUMBING NEW WORK PLAN - LEVEL 100 SECTION 11 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



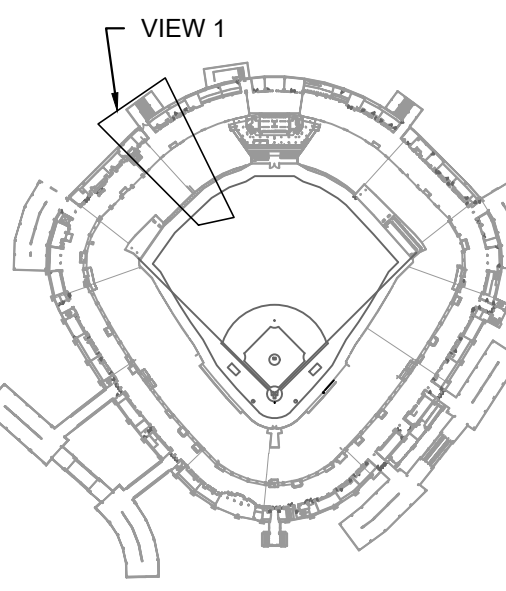
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PHASE X
333 W 35TH STREET,
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DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 100 SECTION 11
ENLARGED PLAN

DESIGNED BY: DA
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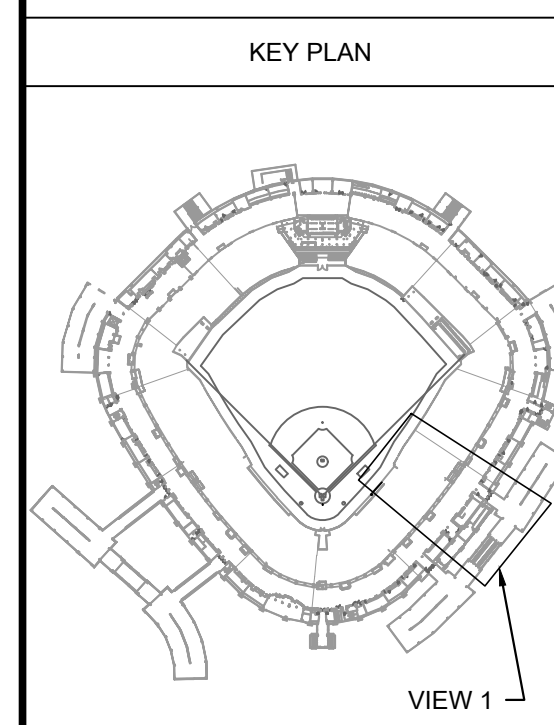


1 PLUMBING NEW WORK PLAN - SERVICE LEVEL SECTION 5 ENLARGED PLAN

- KEYED PLUMBING NEW WORK SHEET NOTES**

 1. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.
 2. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.
 3. INSTALL NEW SANITARY AND VENT PIPING. CONNECT TO EXISTING PIPING AT LOCATIONS SHOWN.
- KEYED ELECTRICAL NEW WORK SHEET NOTES**

 1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.

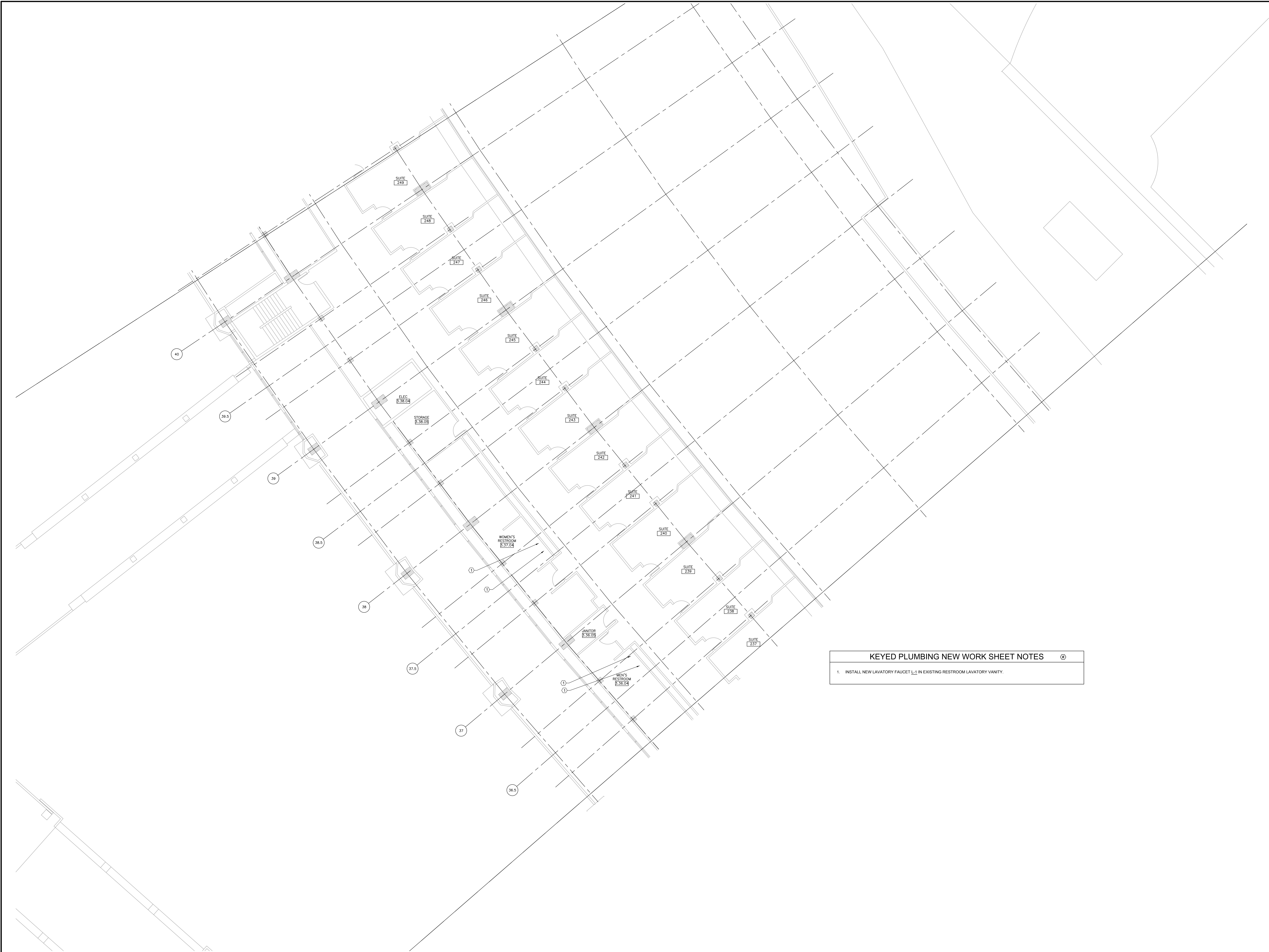


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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

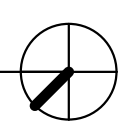
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PLUMBING NEW WORK PLAN -
LEVEL 200 SECTION 5
ENLARGED PLAN

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



1 PLUMBING NEW WORK PLAN - LEVEL 200 SECTION 8 ENLARGED PLAN

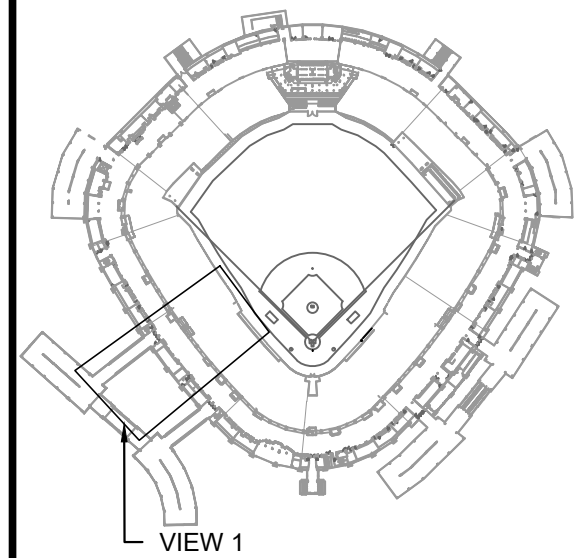
SCALE: 1/8" = 1'-0"



KEYED PLUMBING NEW WORK SHEET NOTES	
1.	INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.



KEY PLAN

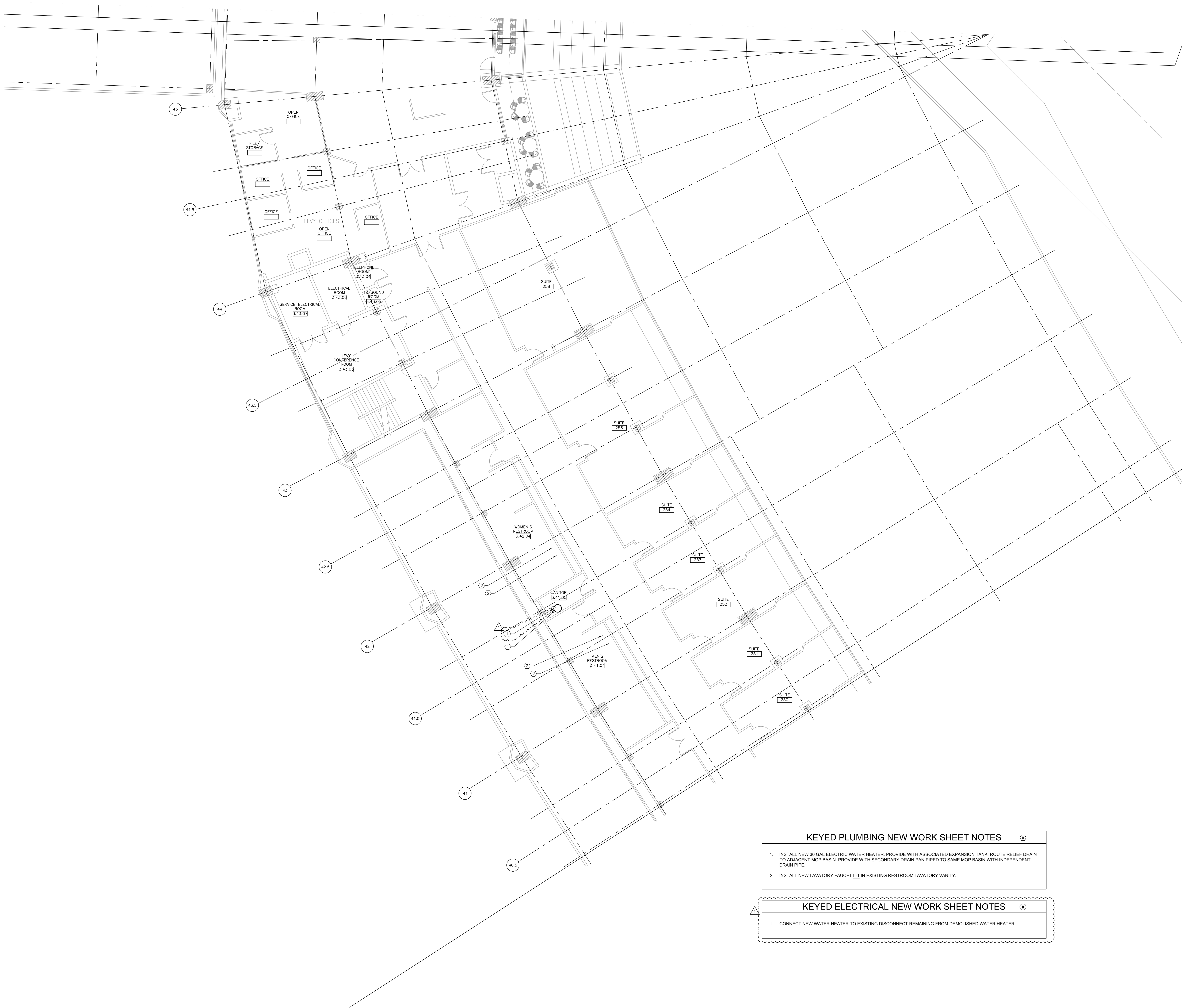


ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
-	12/21/21	ISSUE FOR BID
1	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 200 SECTION 8
ENLARGED PLAN

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO.:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



KEYED PLUMBING NEW WORK SHEET NOTES

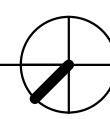
1. INSTALL NEW 30 GAL ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.
2. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.

KEYED ELECTRICAL NEW WORK SHEET NOTES

1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.

1 PLUMBING NEW WORK PLAN - LEVEL 200 SECTION 9 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



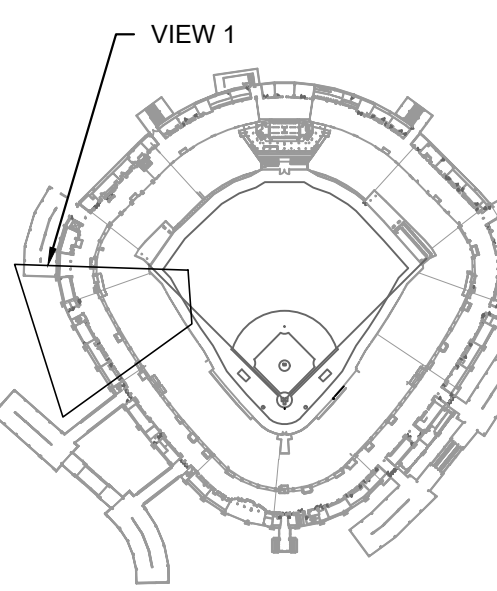
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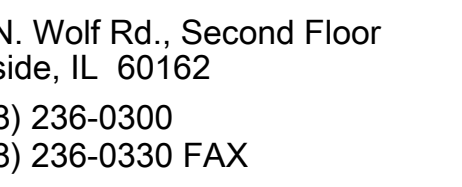
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 200 SECTION 9
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

P1.31



1. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.
2. INSTALL NEW FLUSH VALVE ON EXISTING FIXTURE. REFER TO FIXTURE SCHEDULE FOR ADDITIONAL DETAILS.
3. INSTALL EXPANSION TANK. CONNECT TO EXISTING WATER HEATER IN LOCATION IDENTIFIED IN PLAN. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.

1 PLUMBING NEW W

SCALE: 1/8" = 1'-0"

0 4' 8' 16'

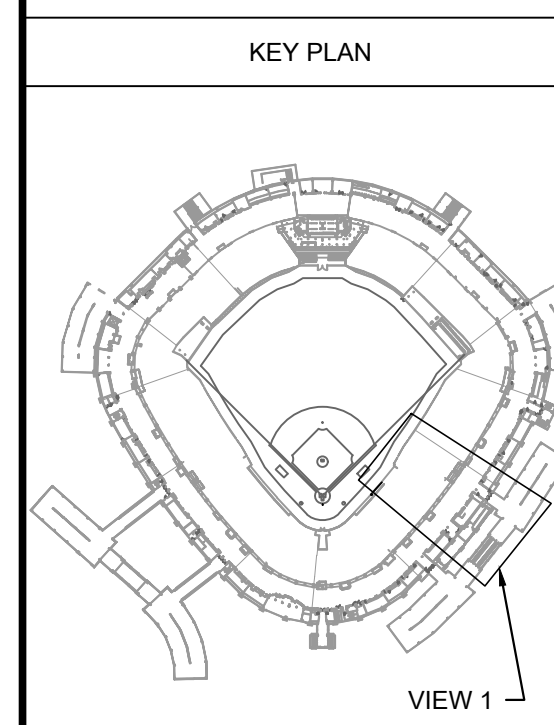
12/27/2021	ISSUED FOR BID ADDENDUM
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P1.35



1 PLUMBING NEW WORK PLAN - LEVEL 300 SECTION 5 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

- KEYED PLUMBING NEW WORK SHEET NOTES
1. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.
 2. INSTALL EXPANSION TANK. CONNECT TO EXISTING WATER HEATER IN LOCATION IDENTIFIED IN PLAN. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.



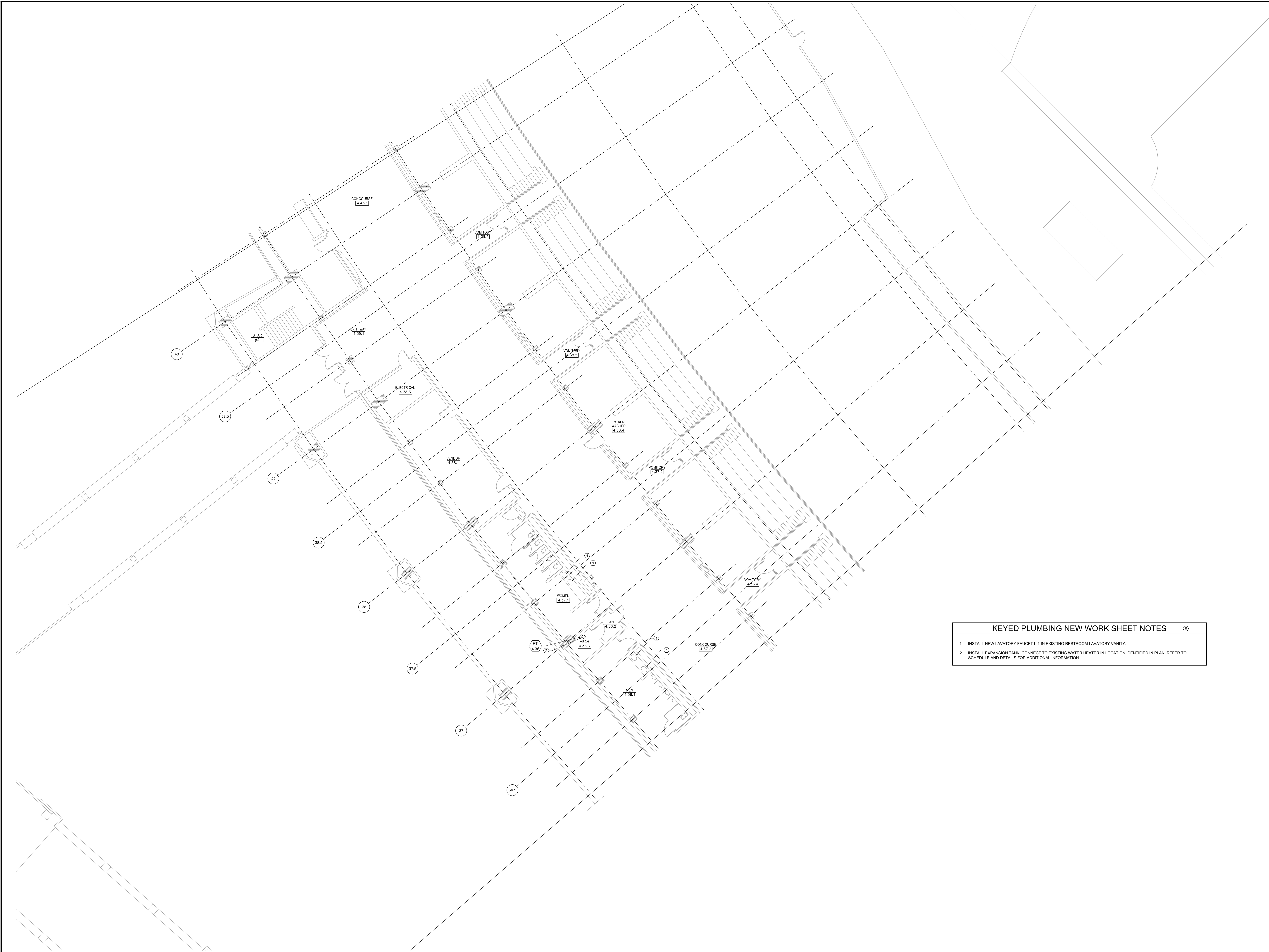
ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
-	12/26/21	ISSUE FOR BID
A	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 300 SECTION 5
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO
P1.36



1 PLUMBING NEW WORK PLAN - LEVEL 300 SECTION 8 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

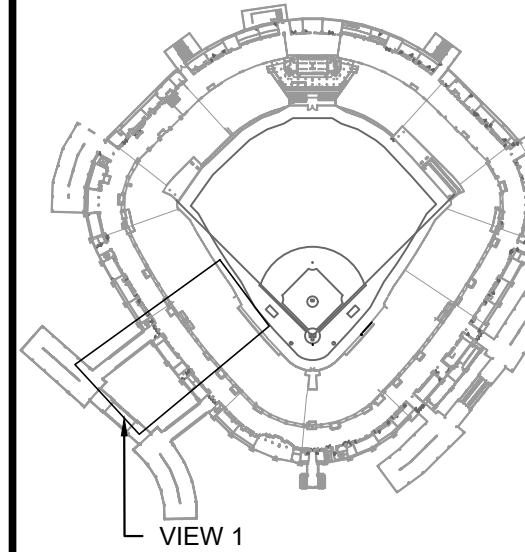
- KEYED PLUMBING NEW WORK SHEET NOTES
1. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.
 2. INSTALL EXPANSION TANK. CONNECT TO EXISTING WATER HEATER IN LOCATION IDENTIFIED IN PLAN. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.



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PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

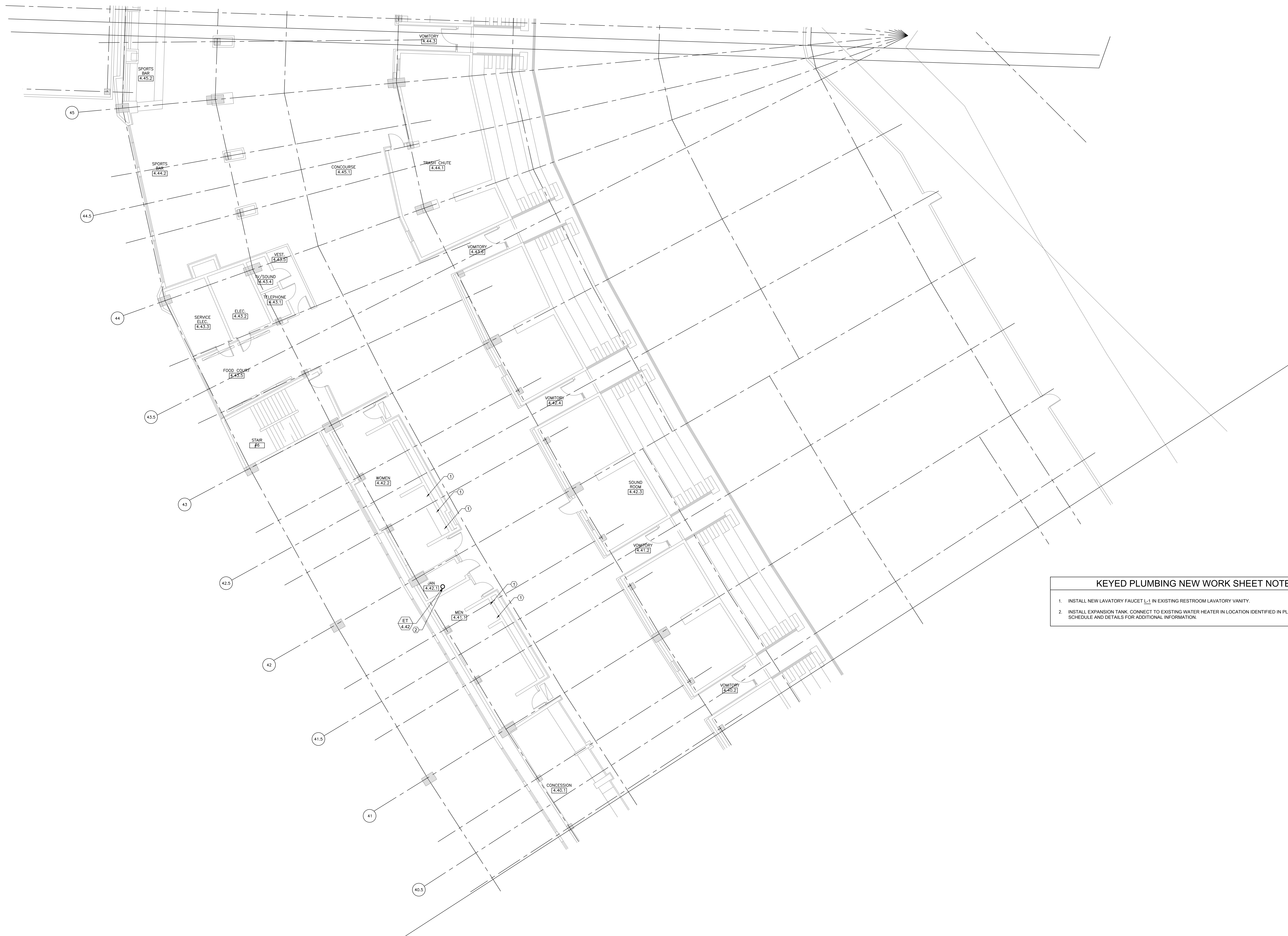
DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 300 SECTION 8
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO

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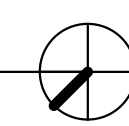
P1.39



- KEYED PLUMBING NEW WORK SHEET NOTES**
1. INSTALL NEW LAVATORY FAUCET L1 IN EXISTING RESTROOM LAVATORY VANITY.
 2. INSTALL EXPANSION TANK. CONNECT TO EXISTING WATER HEATER IN LOCATION IDENTIFIED IN PLAN. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.

1 PLUMBING NEW WORK PLAN - LEVEL 300 SECTION 9 ENLARGED PLAN

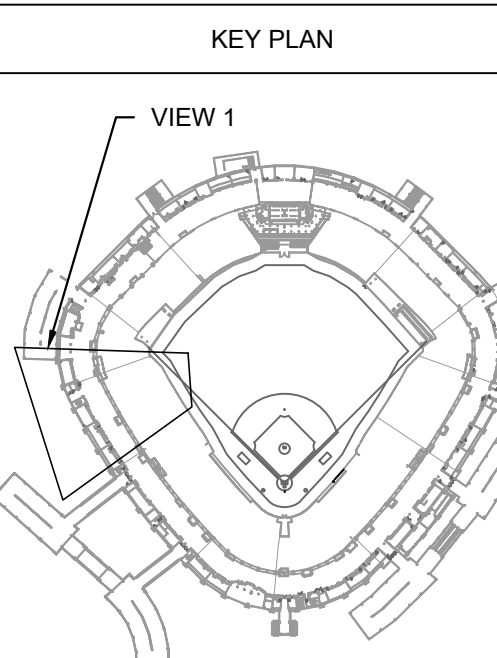
SCALE: 1/8" = 1'-0"



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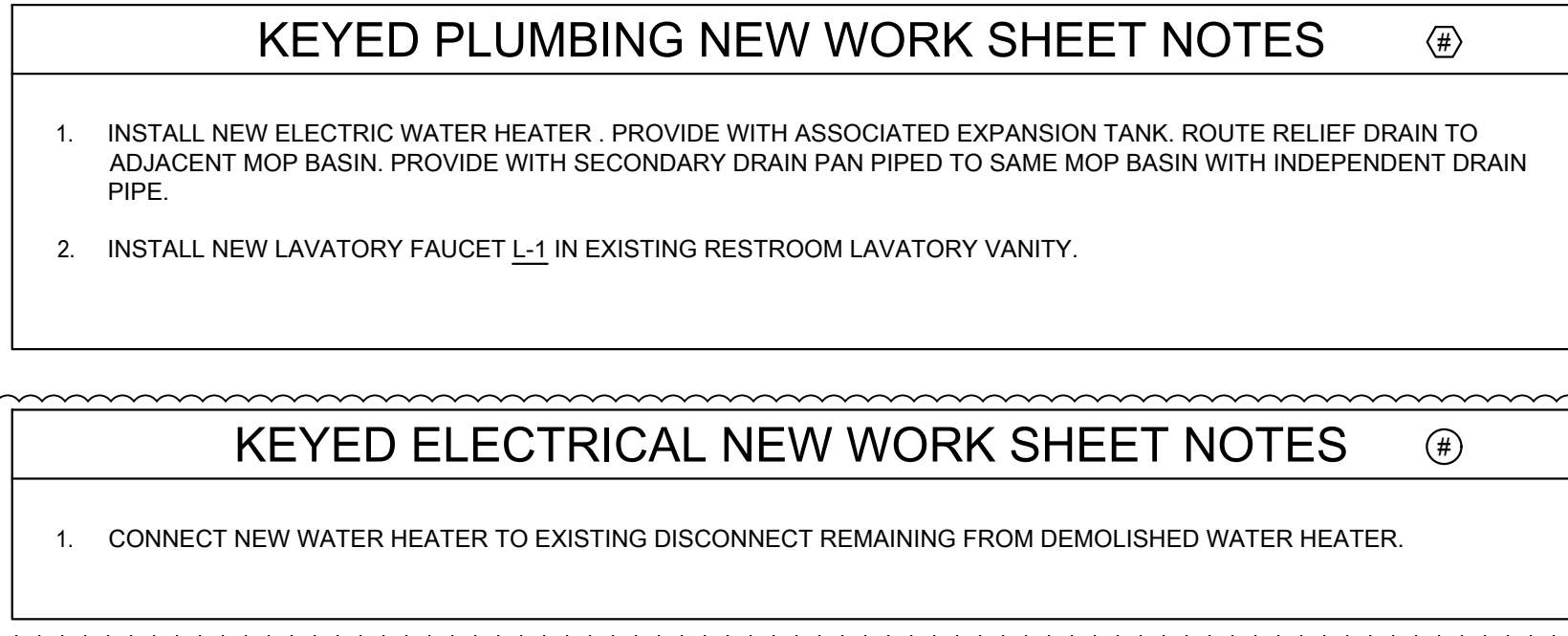
ISSUE/REVISION:		
REV.	DATE	DESCRIPTION
1	12/27/21	ISSUE FOR BID
2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 300 SECTION 9
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO
P1.40



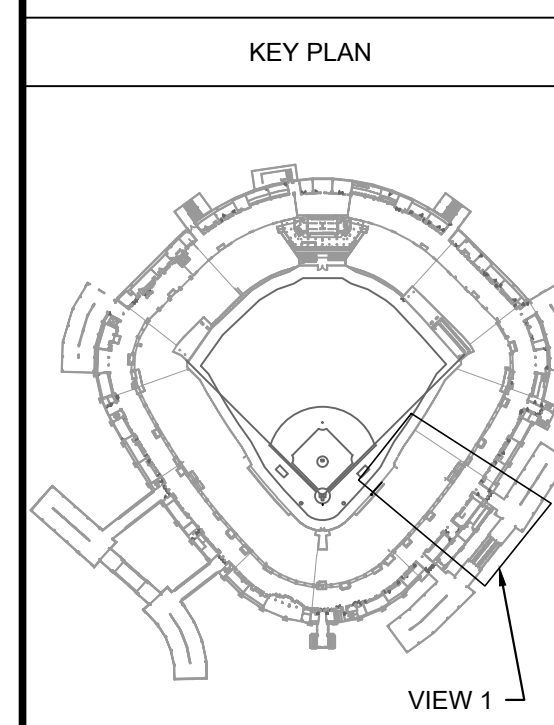


1 PLUMBING NEW WORK PLAN - LEVEL 400 SECTION 5 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

- KEYED PLUMBING NEW WORK SHEET NOTES**
1. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.

2. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.
- KEYED ELECTRICAL NEW WORK SHEET NOTES**
1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.

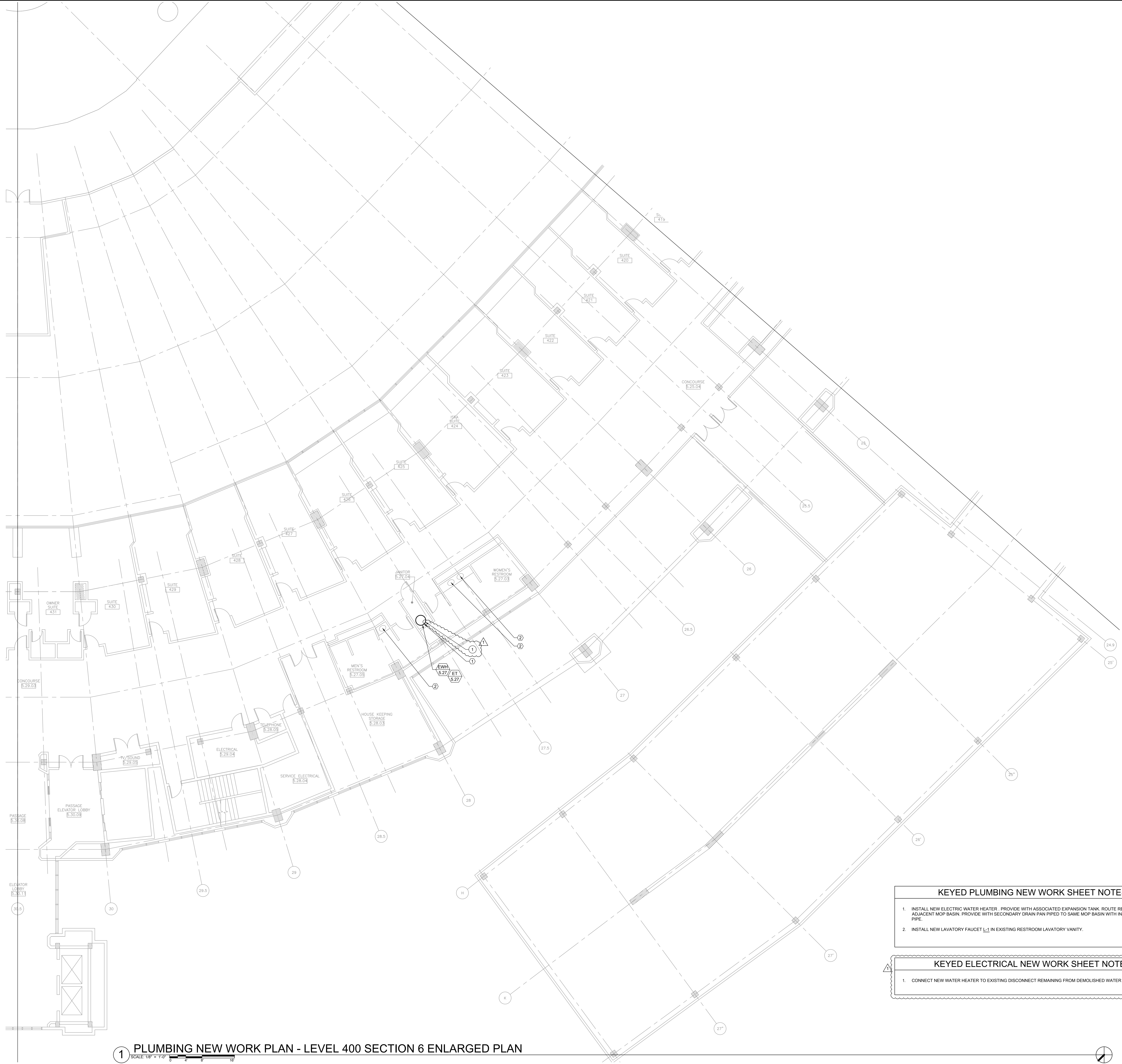


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REV.	DATE	DESCRIPTION
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2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 400 SECTION 5
ENLARGED PLAN

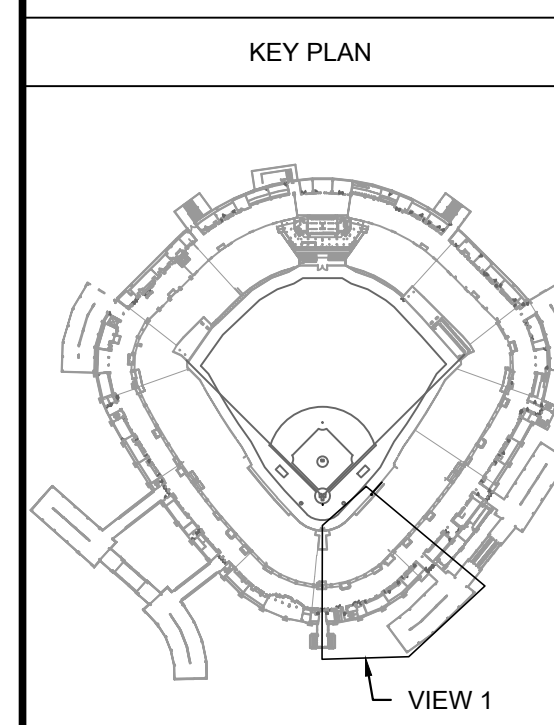
DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



1 PLUMBING NEW WORK PLAN - LEVEL 400 SECTION 6 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

- KEYED PLUMBING NEW WORK SHEET NOTES**
1. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.
 2. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.

- KEYED ELECTRICAL NEW WORK SHEET NOTES**
1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.



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REV.	DATE	DESCRIPTION
-	12/21/21	ISSUE FOR BID
Δ	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 400 SECTION 6
ENLARGED PLAN

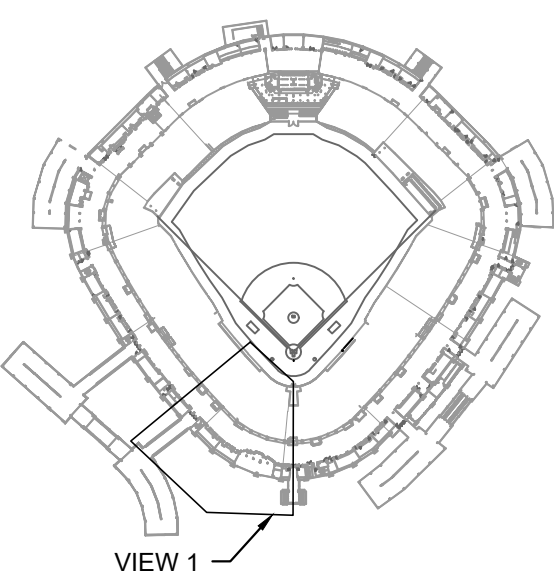
DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	



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A	12/27/21	BID ADDENDUM #1

PROJECT:

GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

PLUMBING NEW WORK PLAN -
LEVEL 400 SECTION 7
ENLARGED PLAN

DESIGNED BY: DA

CHECKED BY: MS

PROJECT NO: 21275

SCALE: 1/8" = 1'-0"

SHEET NO.

12/27/2021 ISSUED FOR BID ADDENDUM
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KEYED PLUMBING NEW WORK SHEET NOTES

1. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.
2. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.

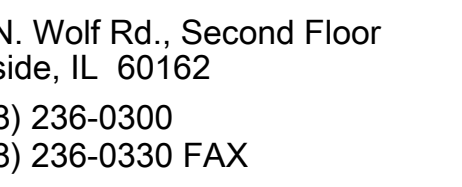
KEYED ELECTRICAL NEW WORK SHEET NOTES

1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.

1 PLUMBING NEW WORK PLAN - LEVEL 400 SECTION 7 ENLARGED PLAN

SCALE: 1/8" = 1'-0"

1



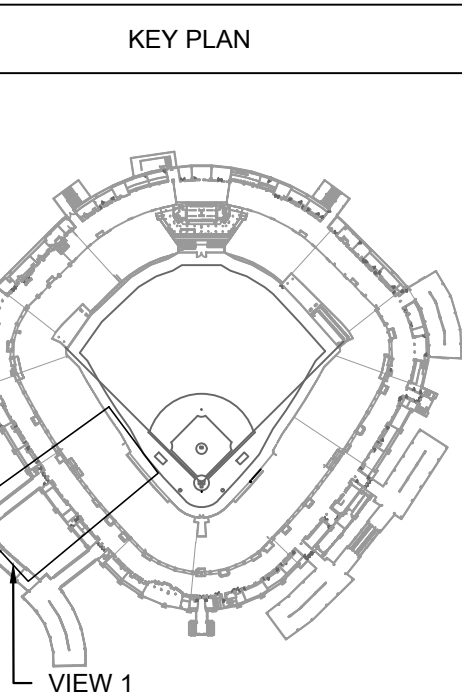
1 PLUMBING NEW W

SCALE: 1/8" = 1'-0"

0 4' 8' 12'

1. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.
2. INSTALL NEW LAVATORY FAUCET L-1 IN EXISTING RESTROOM LAVATORY VANITY.

1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER



REVISION:

[illegible]

35TH STREET,
GO, ILLINOIS 60616

PROJECT TITLE:
 ESTIMATING NEW WORK PLAN -
 LEVEL 400 SECTION 8
 TARGETED PLAN

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
DATE:	
BY:	
NO.	

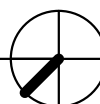
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P1.48

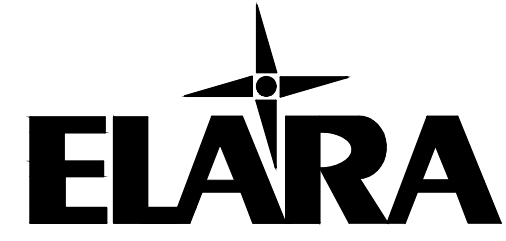


1 PLUMBING NEW WORK PLAN - LEVEL 400 SECTION 9 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



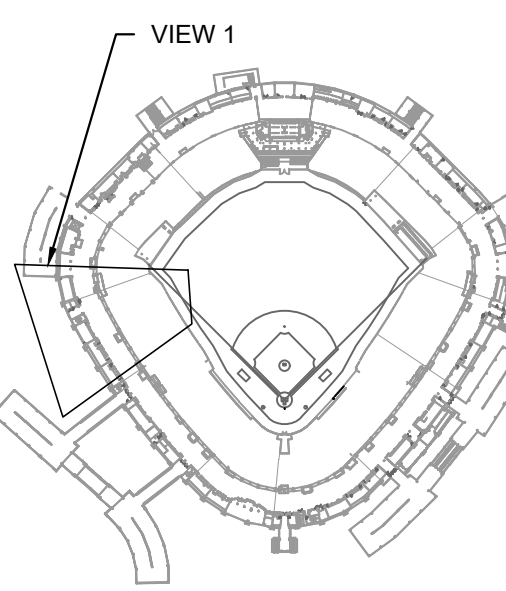
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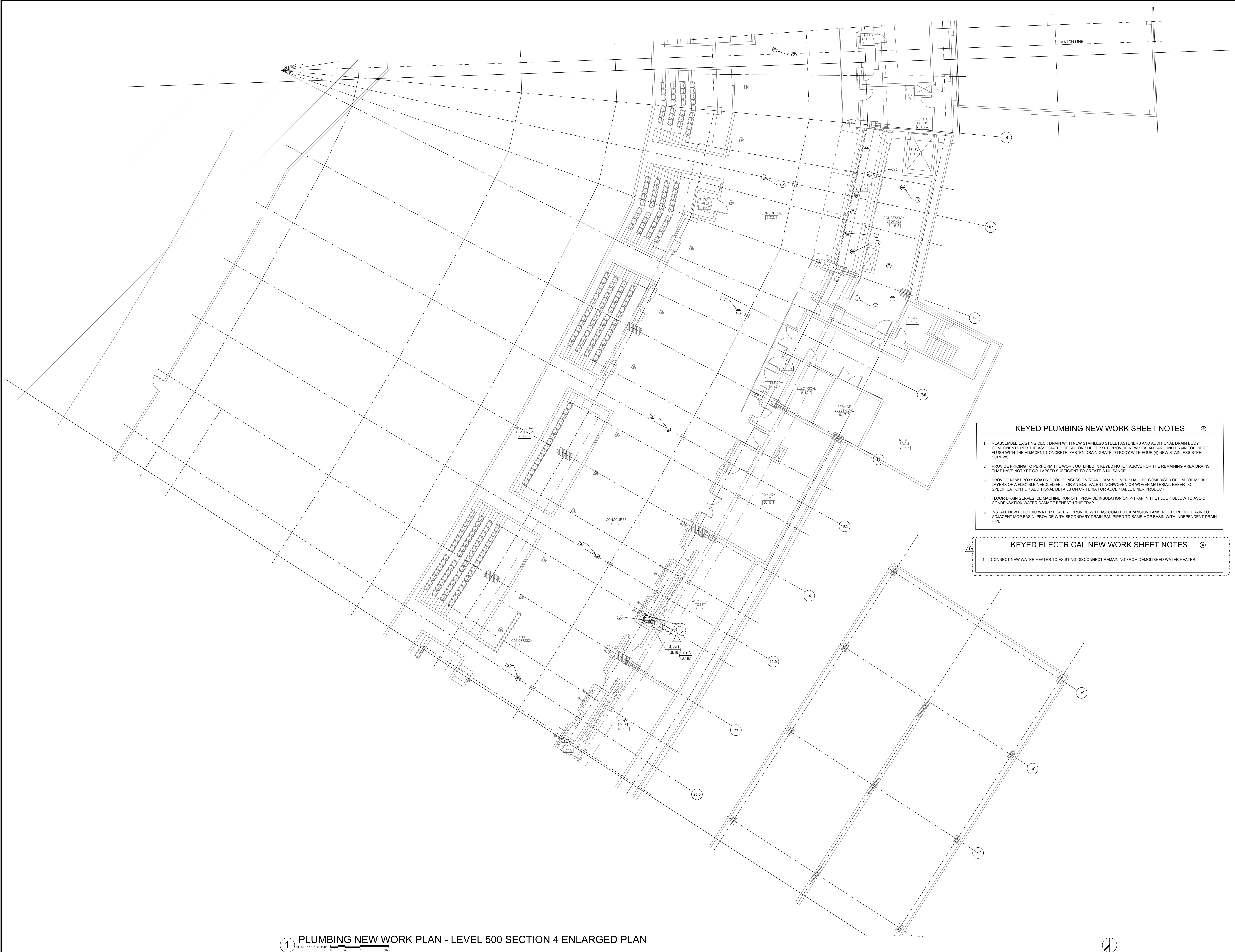
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 400 SECTION 9
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"

SHEET NO.

P1.49



1 PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 4 ENLARGED PLAN
SCALE: 1/8" = 1'-0" 0 4 8 16'

KEYED PLUMBING NEW WORK SHEET NOTES

1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET PD.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
3. PROVIDE NEW EPOXY COATING FOR CONCESSION STAND DRAIN LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.
5. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MCP BASIN. PROVIDE WITH SECONDARY DRAIN PIPED TO SAME MCP BASIN WITH INDEPENDENT DRAIN PIPE.

KEYED ELECTRICAL NEW WORK SHEET NOTES

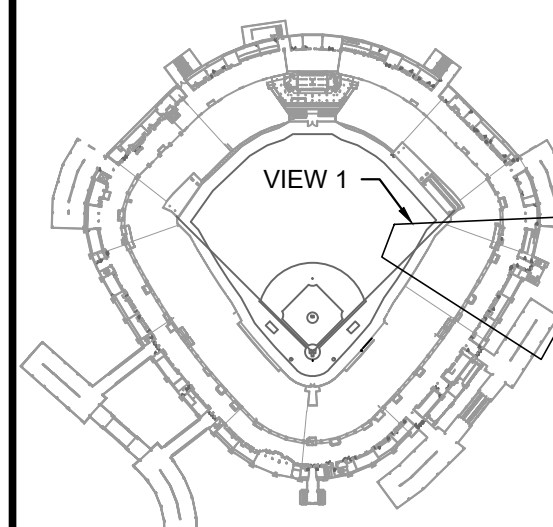
1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.



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KEY PLAN



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PROJECT:

GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

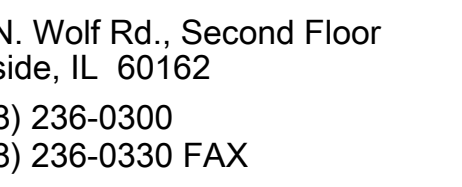
DRAWING TITLE:

PLUMBING NEW WORK PLAN -
LEVEL 500 SECTION 4
ENLARGED PLAN

DESIGNED BY:	DA
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SCALE:	1/8" = 1'-0"
SHEET NO.	

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A diagram of a baseball field showing the layout of the bases and pitcher's mound. The diagram is a top-down view of the field, with the pitcher's mound at the center. The bases are arranged in a diamond shape, with first base on the right, second base at the top, third base on the left, and home plate at the bottom. The diagram is labeled with 'PITCHER'S MOUND' at the center, 'FIRST BASE' on the right, 'SECOND BASE' at the top, 'THIRD BASE' on the left, and 'HOME PLATE' at the bottom. The diagram is also labeled with 'INFIELD' and 'OUTFIELD' to indicate the different areas of the field.

[illegible]

PROJECT TITLE:
 RAMPING NEW WORK PLAN -
 LEVEL 500 SECTION 5
 TARGETED PLAN

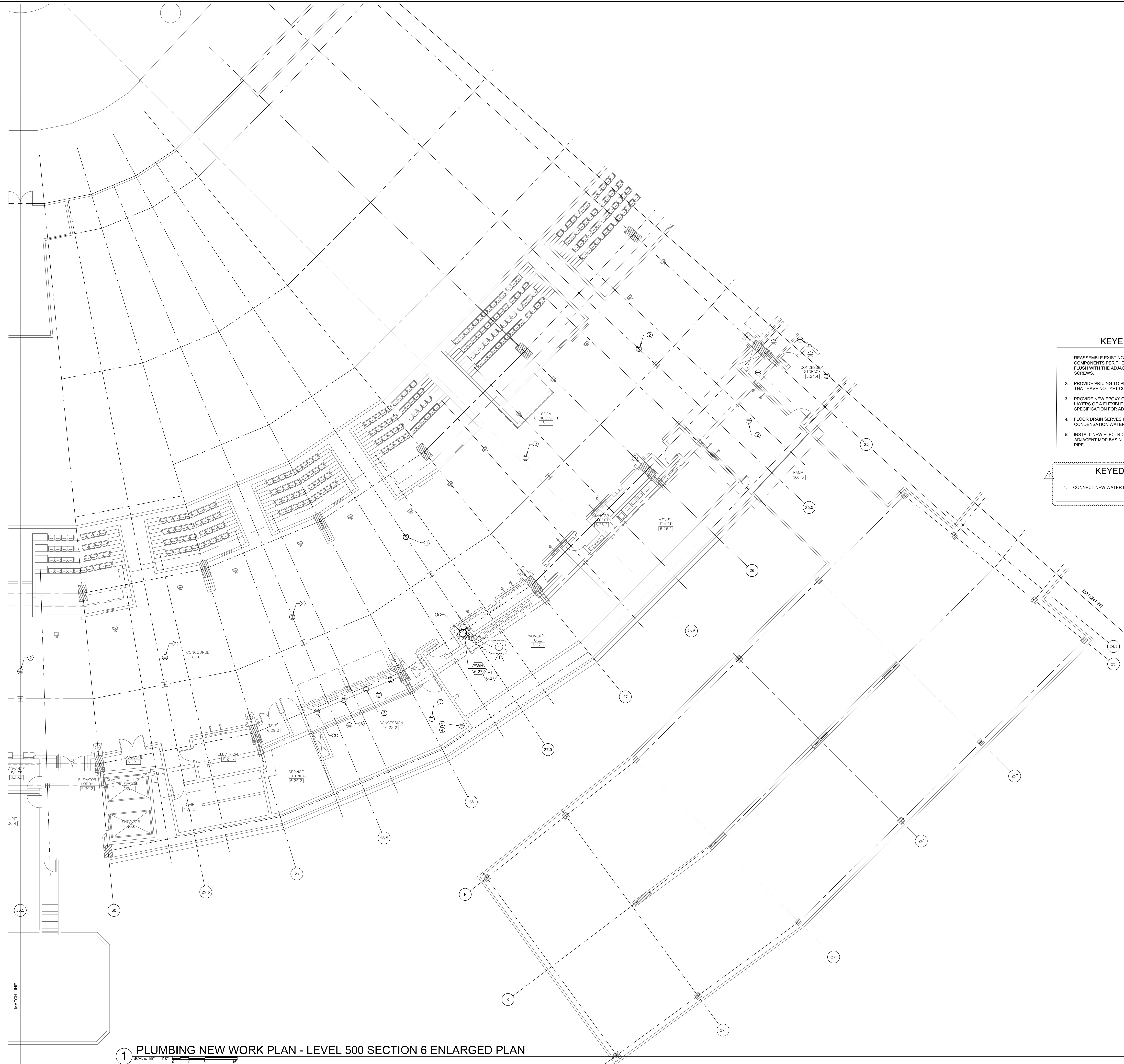
P1.54



1 PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 5 ENLARGED PLAN

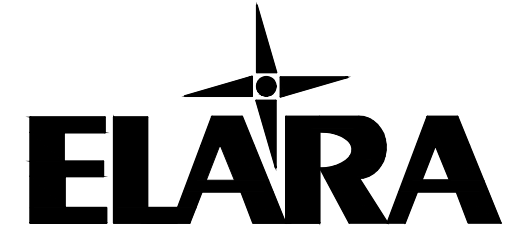
1. REASONABLE EXISTING DECK DRAIN WITH NO STEEL/SS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET TP3.01. PROVIDE NEW SEALANT AROUND TOP EDGE OF DRAIN BODY TO ADJACENT CONCRETE. FASTEN DRAIN BODY TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYNOTE 1 ABOVE FOR THE REMAINING AREA DRAINS TO BE INSTALLED TO MATCH THE EXISTING DRAIN DETAIL.
3. PROVIDE NEW EPOXY COATING FOR CONCRESSION STAND DRAIN. LINER SHALL BE COMPOSED OF ONE (1) MORE LAYERS OF A FLEXIBLE NEEDED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE. REFER TO DETAIL.

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- KEYED PLUMBING NEW WORK SHEET NOTES**
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P3.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
 2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. PROVIDE NEW EPOXY COATING FOR CONCESSION STAND DRAIN LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDLED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
 4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.
 5. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.

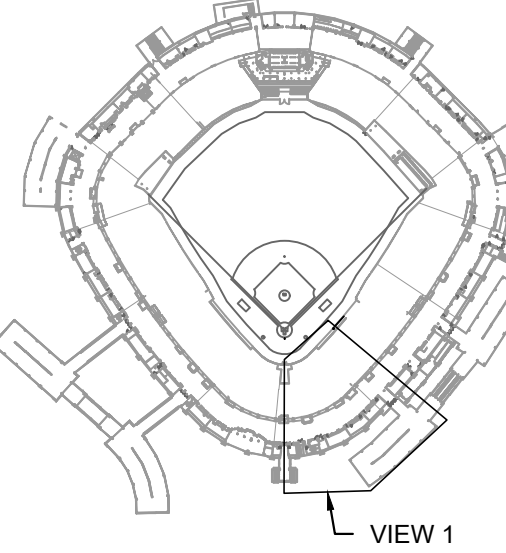
- KEYED ELECTRICAL NEW WORK SHEET NOTES**
1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.



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2	12/27/21	BID ADDENDUM #1

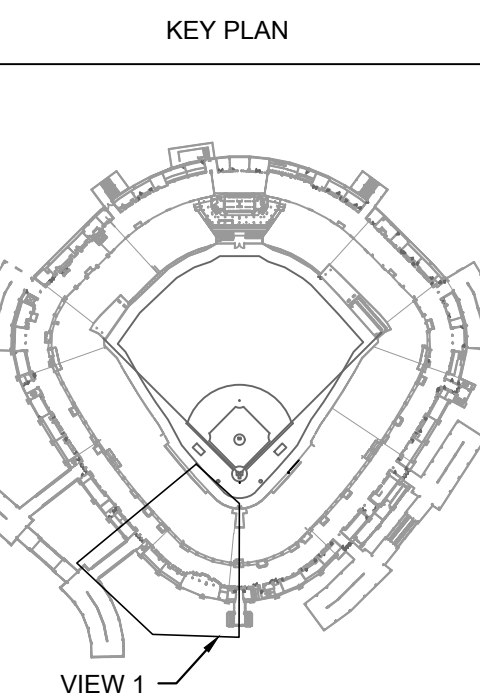
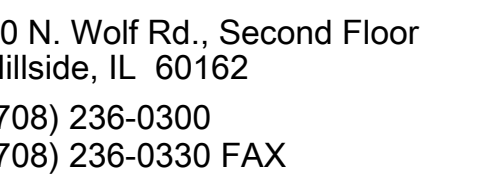
PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 500 SECTION 6
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

12/27/2021 ISSUED FOR BID ADDENDUM
PRELIMINARY - NOT FOR CONSTRUCTION

P1.55

[illegible]

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
14 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
 PLUMBING NEW WORK PLAN -
 LEVEL 500 SECTION 7
 ENLARGED PLAN

SIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

P1.56

1 PLUMBING DEMOLITION PLAN - LEVEL 400 SECTION 7 ENLARGED PLAN
SCALE: 1/8" = 1'-0"

KEYED PLUMBING NEW WORK SHEET NOTES

1. REASSEMBLE EXISTING DECK CONCRETE WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY SCREWS. PROVIDE THE ASSOCIATED DETAIL (SEE ATTACHED DRAWING) TO THE FLOOR ABOVE. REMOVE THE TRAP PIPES FLUSH WITH THE ADJACENT CURB. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN A NEARBY NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT BEEN SUFFICIENT TO CREATE A KEGED NOTE.
3. PROVIDE NEW EPOXY COATING FOR CONCRESSION STAIN DRAIN. LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATIONS FOR MATERIAL DETAILS OR FOR AN ACCEPTABLE LINER PRODUCT.
4. FLOOR DRAIN SERVICE MACHINE RUN OFF: PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.
5. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PIPE PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIP.

KEYED ELECTRICAL NEW WORK SHEET NOTES

1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER

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- KEYED PLUMBING NEW WORK SHEET NOTES**
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P1.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
 2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE AN OBSTACLE.
 3. PROVIDE NEW EPOXY COATING FOR CONCESSION STAND DRAIN. LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDLED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
 4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.

1 PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 8 ENLARGED PLAN

SCALE 1/8" = 1'-0"



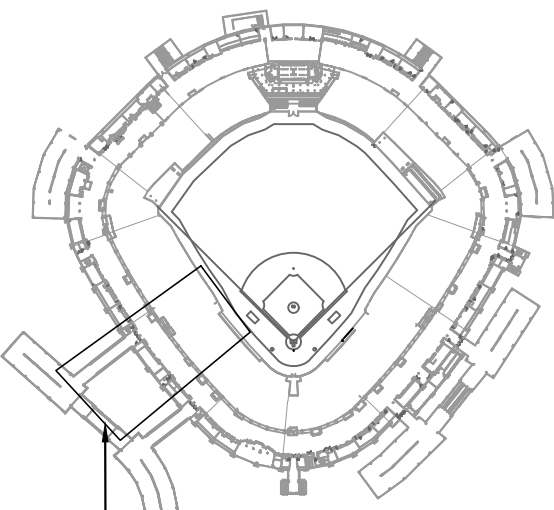
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KEY PLAN



ISSUE/REVISION:

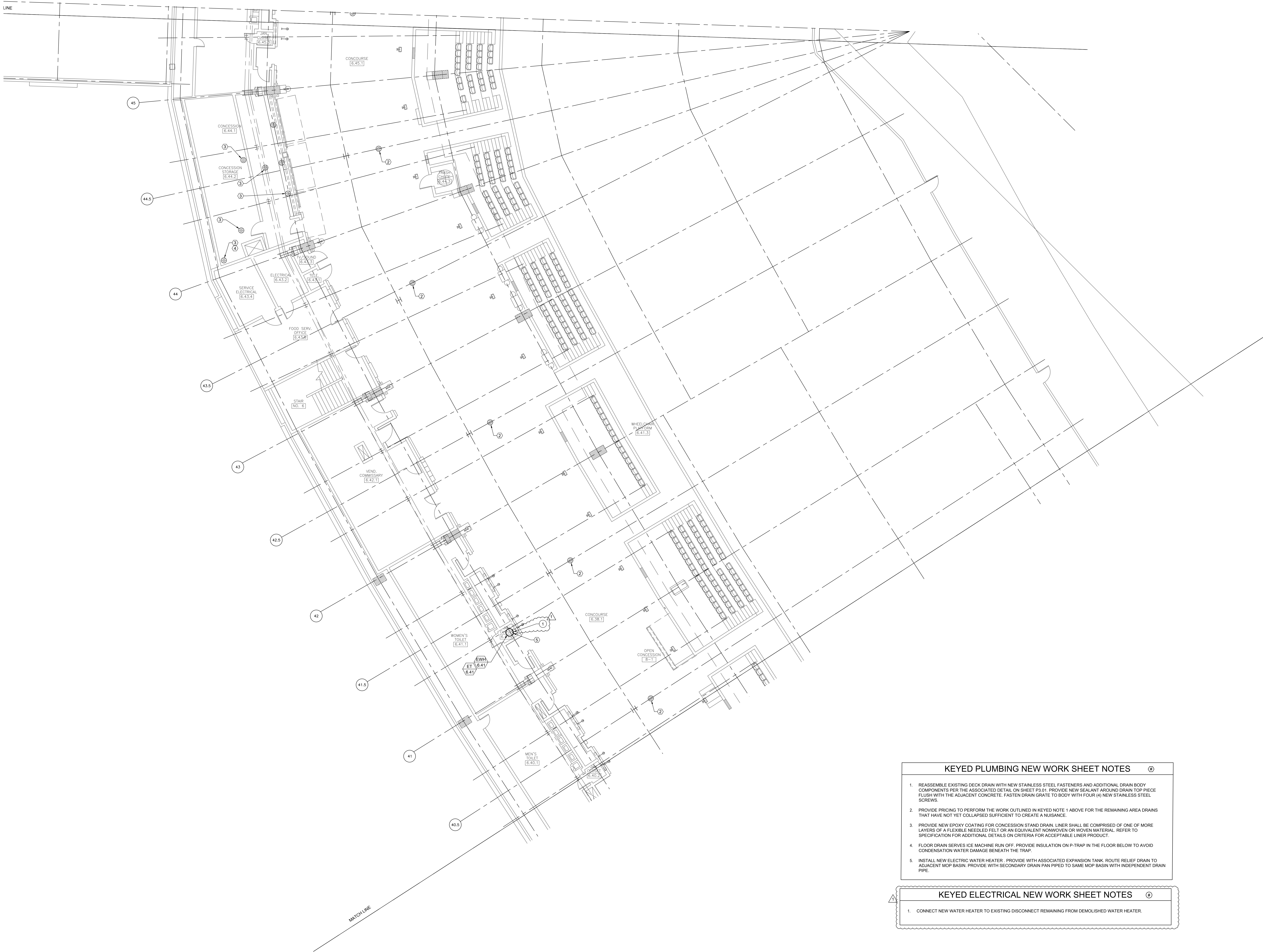
REV.	DATE	DESCRIPTION
-	12/25/21	ISSUE FOR BID
A	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING NEW WORK PLAN -
LEVEL 500 SECTION 8
ENLARGED PLAN

DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: 1/8" = 1'-0"
SHEET NO.

P1.57

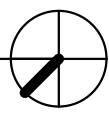


- KEYED PLUMBING NEW WORK SHEET NOTES**
1. REASSEMBLE EXISTING DECK DRAIN WITH NEW STAINLESS STEEL FASTENERS AND ADDITIONAL DRAIN BODY COMPONENTS PER THE ASSOCIATED DETAIL ON SHEET P3.01. PROVIDE NEW SEALANT AROUND DRAIN TOP PIECE FLUSH WITH THE ADJACENT CONCRETE. FASTEN DRAIN GRATE TO BODY WITH FOUR (4) NEW STAINLESS STEEL SCREWS.
 2. PROVIDE PRICING TO PERFORM THE WORK OUTLINED IN KEYED NOTE 1 ABOVE FOR THE REMAINING AREA DRAINS THAT HAVE NOT YET COLLAPSED SUFFICIENT TO CREATE A NUISANCE.
 3. PROVIDE NEW EPOXY COATING FOR CONCESSION STAND DRAIN. LINER SHALL BE COMPRISED OF ONE OF MORE LAYERS OF A FLEXIBLE NEEDLED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS ON CRITERIA FOR ACCEPTABLE LINER PRODUCT.
 4. FLOOR DRAIN SERVES ICE MACHINE RUN OFF. PROVIDE INSULATION ON P-TRAP IN THE FLOOR BELOW TO AVOID CONDENSATION WATER DAMAGE BENEATH THE TRAP.
 5. INSTALL NEW ELECTRIC WATER HEATER. PROVIDE WITH ASSOCIATED EXPANSION TANK. ROUTE RELIEF DRAIN TO ADJACENT MOP BASIN. PROVIDE WITH SECONDARY DRAIN PAN PIPED TO SAME MOP BASIN WITH INDEPENDENT DRAIN PIPE.

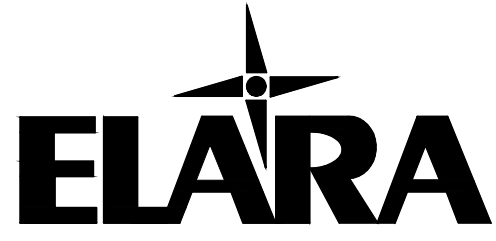
- KEYED ELECTRICAL NEW WORK SHEET NOTES**
1. CONNECT NEW WATER HEATER TO EXISTING DISCONNECT REMAINING FROM DEMOLISHED WATER HEATER.

1 PLUMBING NEW WORK PLAN - LEVEL 500 SECTION 9 ENLARGED PLAN

SCALE: 1/8" = 1'-0"



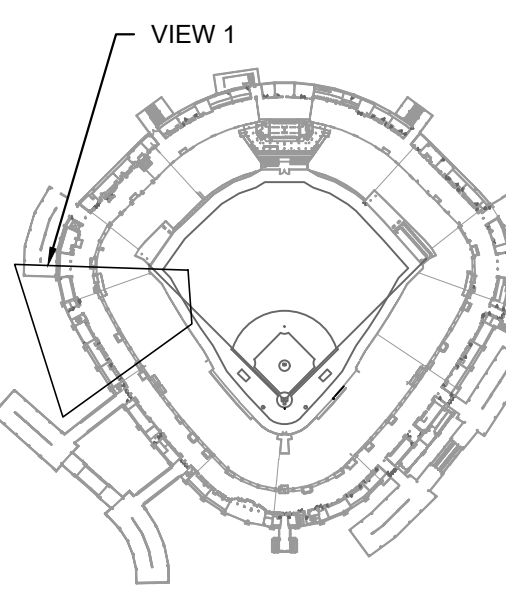
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KEY PLAN



ISSUE/REVISION:

REV.	DATE	DESCRIPTION
-	12/26/21	ISSUE FOR BID
A	12/27/21	BID ADDENDUM #1

PROJECT:

GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X
333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

PLUMBING NEW WORK PLAN -
LEVEL 500 SECTION 9
ENLARGED

DESIGNED BY:	DA
CHECKED BY:	MS
PROJECT NO:	21275
SCALE:	1/8" = 1'-0"
SHEET NO.	

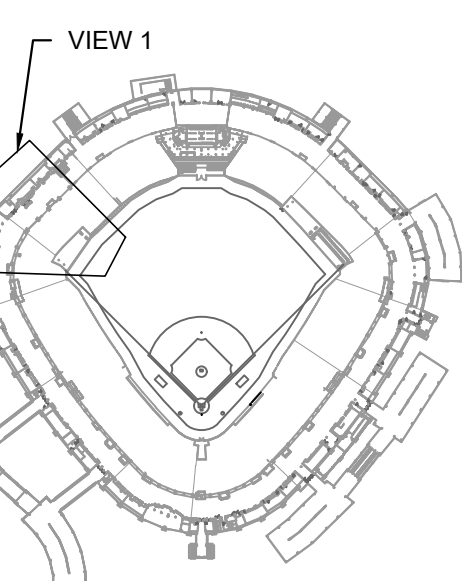
P1.58



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 Peoria, IL 60162
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PLAN



REVISION:

[illegible]

PROJECT:
GUARANTEED RATE FIELD -
SITE AND VENT PIPING
CASE X

35TH STREET,
GO, ILLINOIS 60616

PROJECT TITLE:
 COMBINING NEW WORK PLAN -
 LEVEL 500 SECTION 10
 CHARGED

APPROVED BY: DA

WORKED BY: MS

ECT NO:	21275
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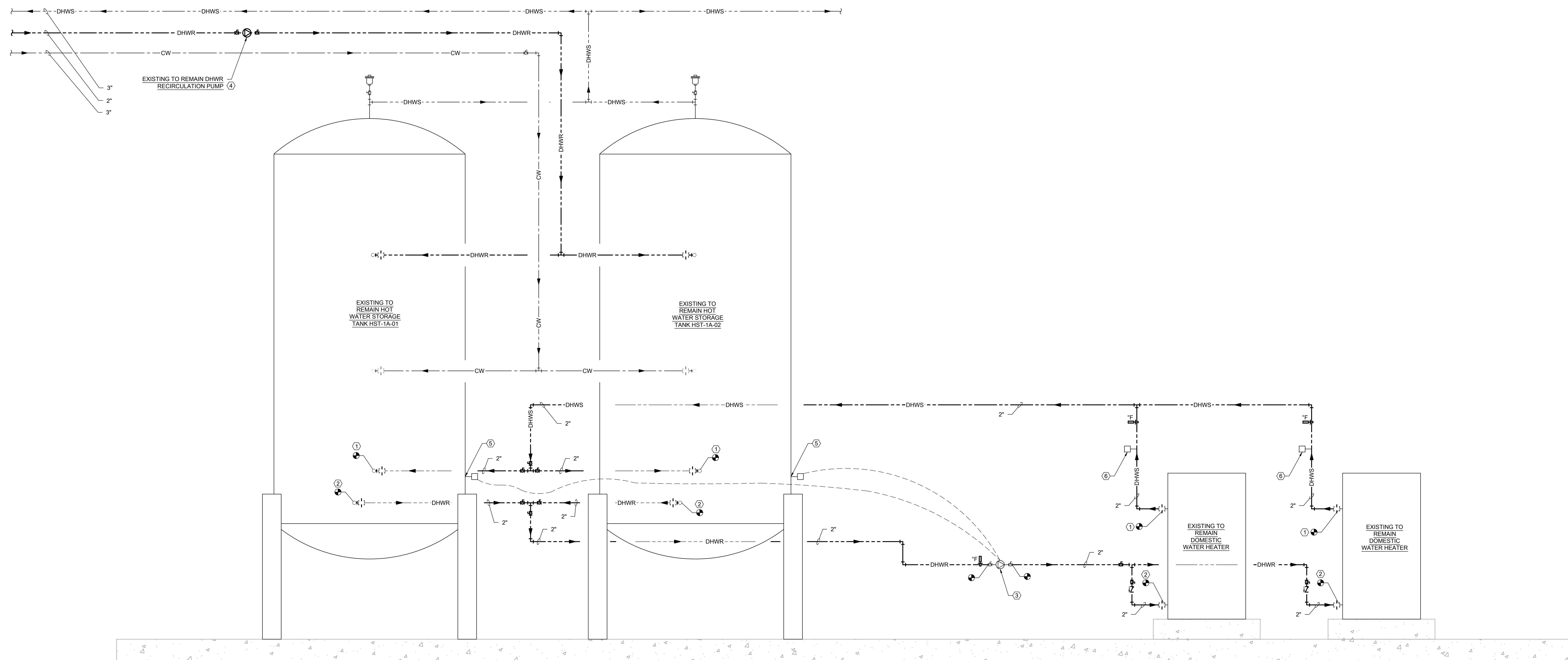
$$1/8" = 1'-0"$$

NO.

P1.59



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Hillside, IL 60162
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KEYED PLUMBING NEW WORK SHEET NOTES

- REPLACE ALL DOMESTIC HOT WATER PIPING AND ASSOCIATED ACCESSORIES BETWEEN THE HOT WATER SUPPLY OUTLETS ON THE EXISTING TO REMAIN HOT WATER HEATERS AND THE EXISTING TO REMAIN HOT WATER STORAGE TANKS. WATER HEATERS ARE BOILER TYPE CAPABLE OF A MAXIMUM DISCHARGE WATER TEMPERATURE OF 250°F. WITH THE SYSTEM MAINTAINED AT A 180°F. ALL VALVES SHALL BE 300# CLASS RATED FOR THE MAXIMUM SUPPLY TEMPERATURE OF THE EQUIPMENT. INSULATE PER SPECIFICATIONS.
- REPLACE ALL DOMESTIC HOT WATER PIPING AND ASSOCIATED ACCESSORIES BETWEEN THE INLETS ON THE EXISTING TO REMAIN HOT WATER HEATERS AND THE EXISTING TO REMAIN HOT WATER STORAGE TANKS. ALL VALVES SHALL BE 300# CLASS RATED FOR THE MAXIMUM 250°F SUPPLY TEMPERATURE OF THE EQUIPMENT. INSULATE PER SPECIFICATIONS.
- EXISTING TO REMAIN HOT WATER CIRCULATION PUMP TO REMAIN. PROVIDE PRICING AND LEAD TIME TO PROVIDE IN KIND REPLACEMENT OF PUMP ENSURING THAT NEW PUMP CAN MATCH THE PERFORMANCE OF THE EXISTING PUMP AND IS RATED FOR THE HIGH TEMPERATURE AND PRESSURE OF THE SYSTEM.
EXISTING PUMP INFORMATION:
BELL & GOSSETT E-50, SIZE 1.25AAB 4 125 AB, 75 GPM @ 50 FT HD, SERIAL NO. C317383-01 K12
- EXISTING TO REMAIN HOT WATER CIRCULATION PUMP TO REMAIN. PROVIDE PRICING AND LEAD TIME TO PROVIDE IN KIND REPLACEMENT OF PUMP ENSURING THAT NEW PUMP CAN MATCH THE PERFORMANCE OF THE EXISTING PUMP AND IS RATED FOR THE HIGH TEMPERATURE AND PRESSURE OF THE SYSTEM.
EXISTING PUMP INFORMATION:
BELL & GOSSETT E-50, SIZE 1.25AAB 4 125 AB, 75 GPM @ 50 FT HD, SERIAL NO. C317383-01 K12
- PROVIDE NEW UPDATED CONTROLS FOR MAINTAINING THE DESIRED WATER TEMPERATURE IN THE STORAGE TANKS. INCLUDE NEW AQUASTATS AND AN UPDATED CONTROLLER FOR MAINTAINING 180°F IN THE STORAGE TANKS.
- PROVIDE NEW PROOF OF FLOW SWITCHES TO INTERLOCK WITH OPERATION OF EXISTING TO REMAIN WATER HEATERS.

KEY PLAN

ISSUE/REVISION:

REV.	DATE	DESCRIPTION
1	12/27/21	ISSUE FOR BID
2	12/27/21	BID ADDENDUM #1

PROJECT:
GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:
PLUMBING RISER DIAGRAM

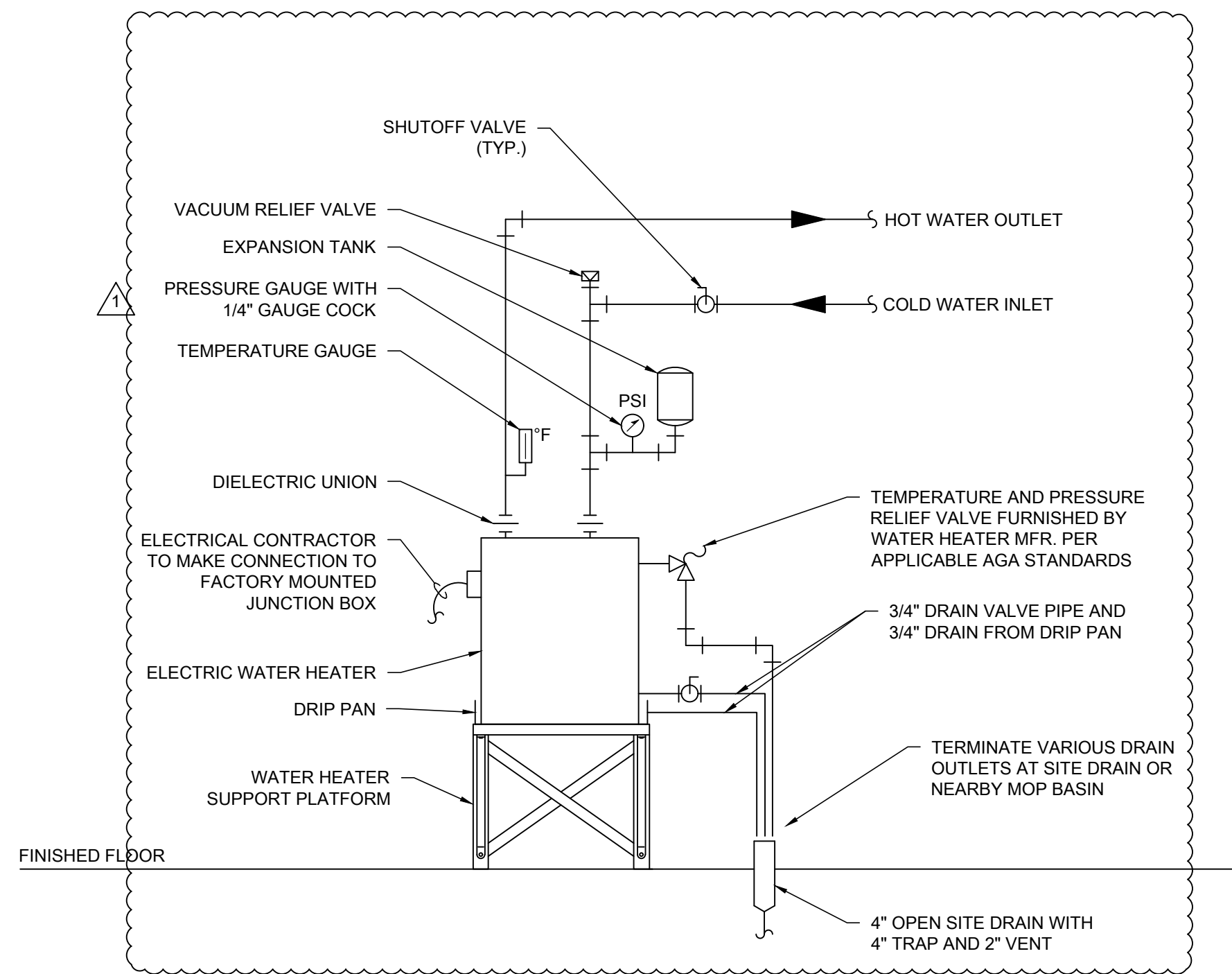
DESIGNED BY: DA
CHECKED BY: MS
PROJECT NO: 21275
SCALE: NO SCALE

SHEET NO.

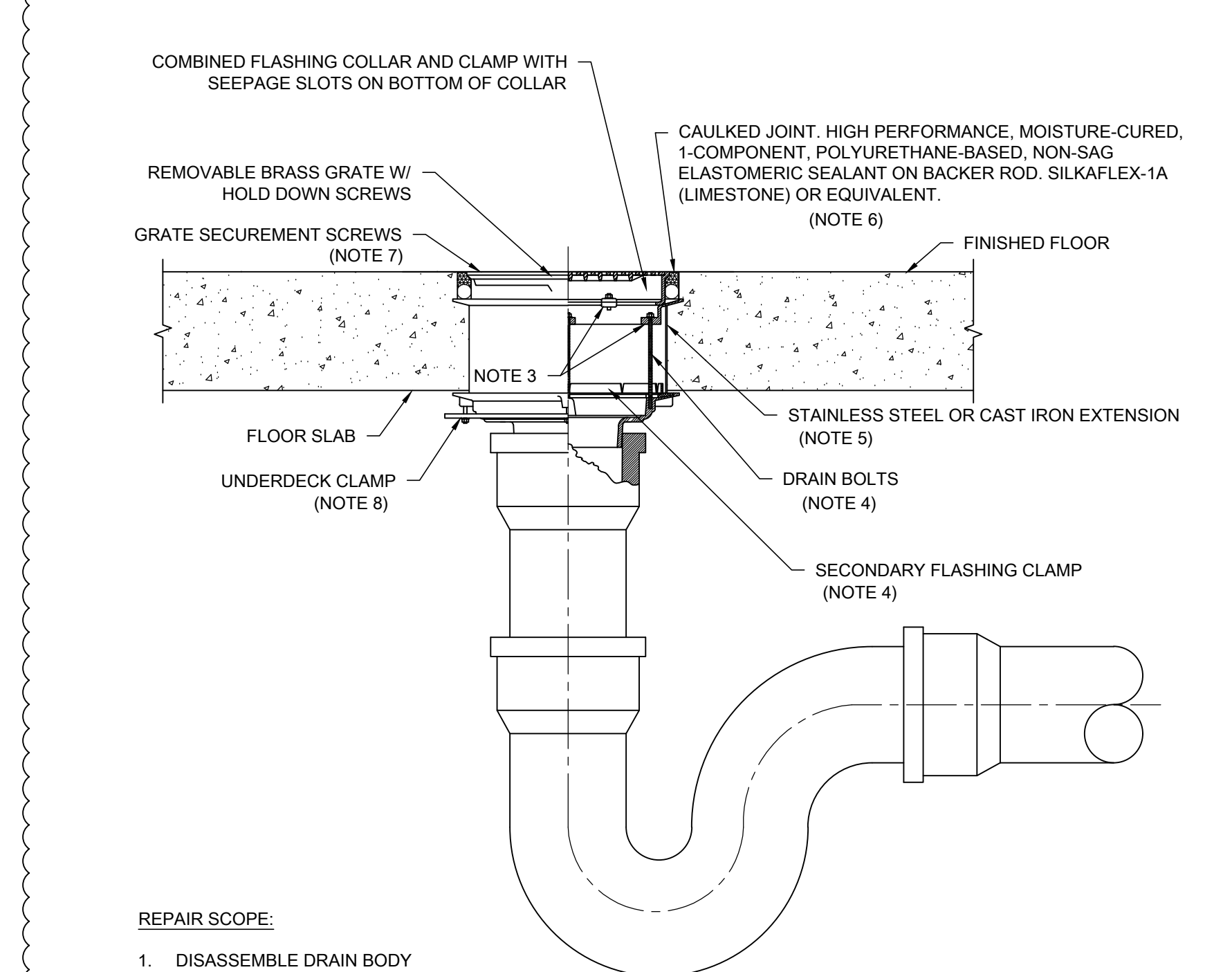
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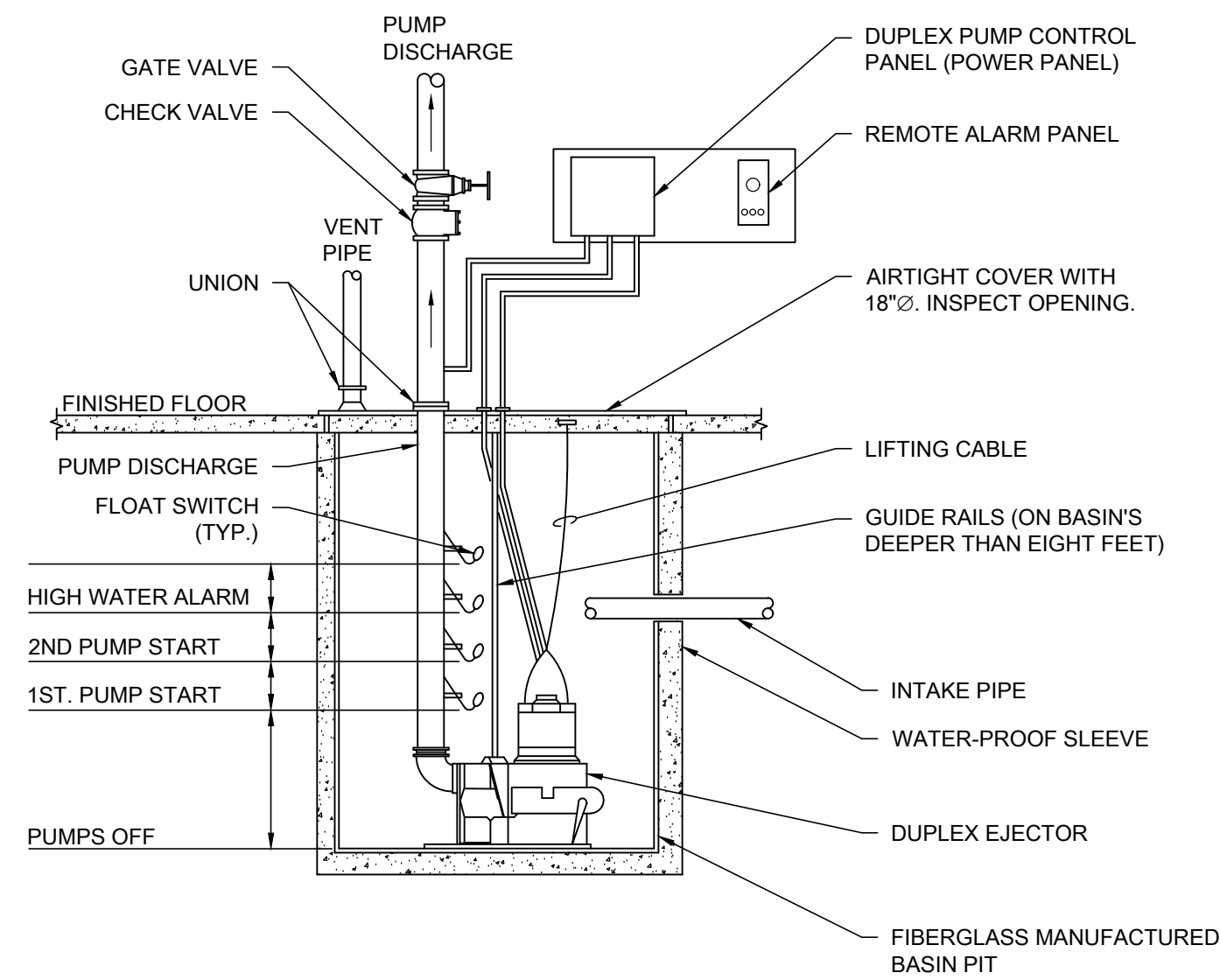


1 ELECTRIC WATER HEATER DETAIL
SCALE: NO SCALE

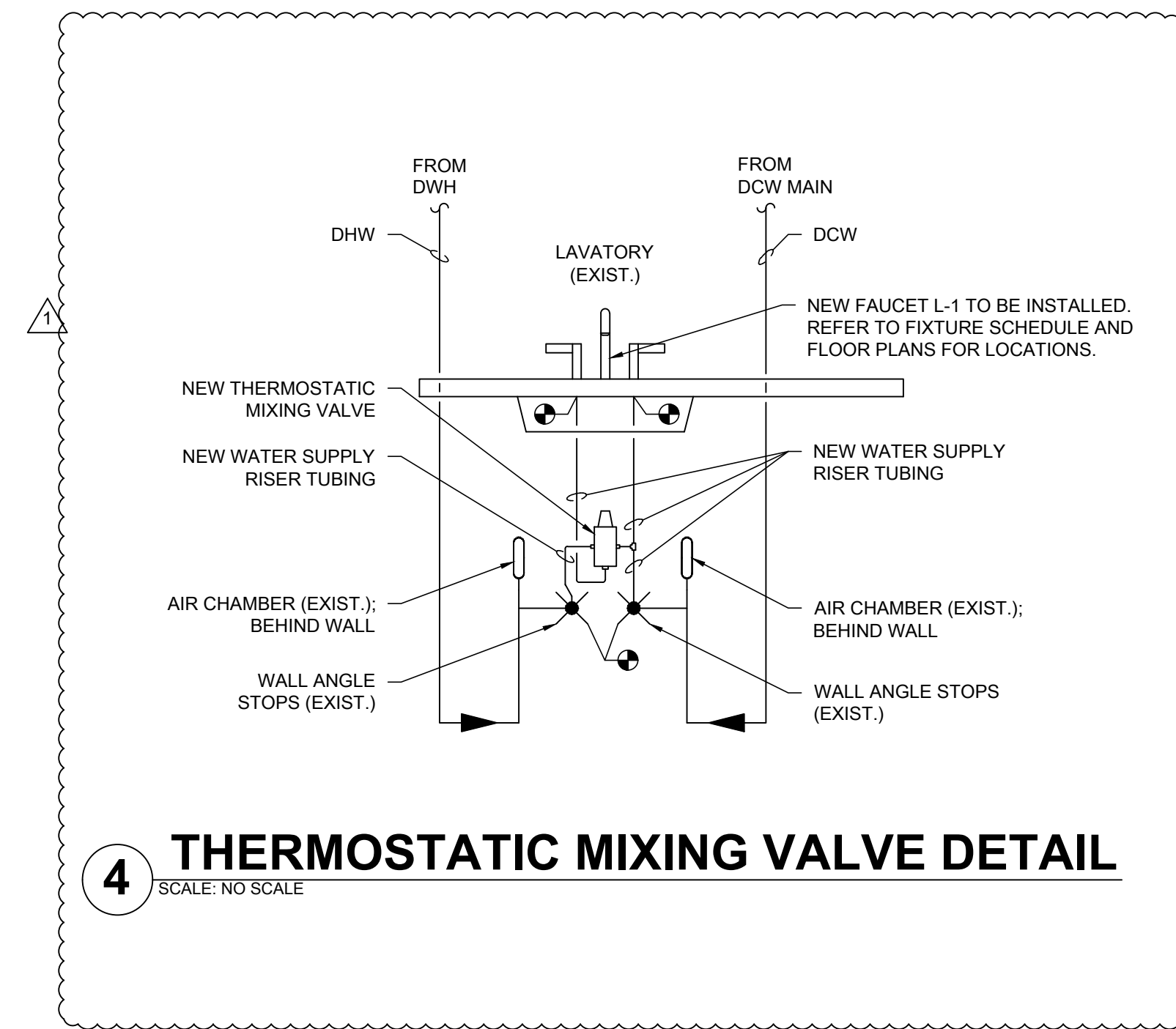


- REPAIR SCOPE:
1. DISASSEMBLE DRAIN BODY
 2. CLEAN DEBRIS FROM DRAIN INTERIOR.
 3. INSPECT FOR BROKEN BOLT FLANGES OR CONNECTION POINTS. REPLACE DRAIN BODY COMPONENTS THAT ARE BROKEN.
 4. PROVIDE ALL NEW SS NUTS & BOLTS SECURING UPPER DRAIN BODY AND LOWER BODY. PROVIDE NEW FLASHING CLAMP TO ENSURE PROPER LEAK PREVENTION.
 5. CONFIRM EXISTING SPACER SUFFICIENTLY SIZED FOR CONCRETE THICKNESS. IF EXTENSION IS NOT PROPER SIZE TO YIELD A GRATE HEIGHT LEVEL WITH THE FLOOR, PROVIDE A NEW EXTENSION OF APPROPRIATE HEIGHT.
 6. RESEAL GAP BETWEEN DRAIN AND ADJACENT CONCRETE. REFER TO SPECIFICATIONS.
 7. PROVIDE NEW FASTENERS TO ATTACH GRATE TO DRAIN BODY.
 8. IF DRAIN REMAINS INSECURE, INSPECT UNDERDECK CLAMPS TO CONFIRM PROPER ATTACHMENT.

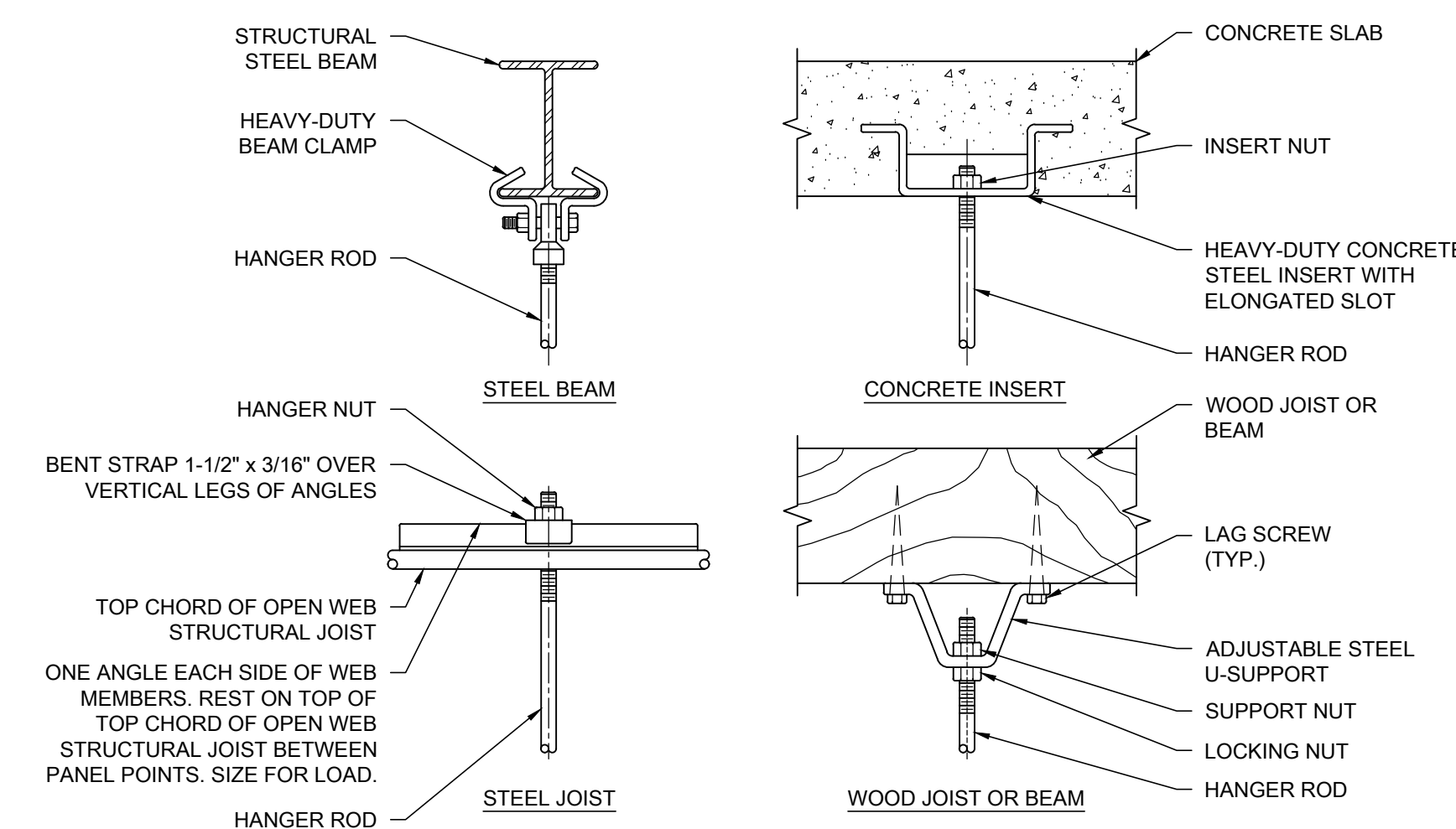
2 DECK DRAIN DETAIL
SCALE: NO SCALE



3 DUPLEX SUBMERSIBLE SEWAGE EJECTOR DETAIL
SCALE: NO SCALE



4 THERMOSTATIC MIXING VALVE DETAIL
SCALE: NO SCALE



PIPE HANGERS AND SUPPORTS (HORIZONTAL STEEL AND COPPER PIPING)		
NOMINAL PIPE SIZE	DISTANCE BETWEEN SUPPORTS	HANGER ROD DIAMETERS
1/2"	6'	3/8"
3/4" TO 1-1/2"	6'	1/2"
2" TO 2-1/2"	10'	1/2"
3" AND 4"	12'	5/8"
6" TO 12"	14'	7/8"

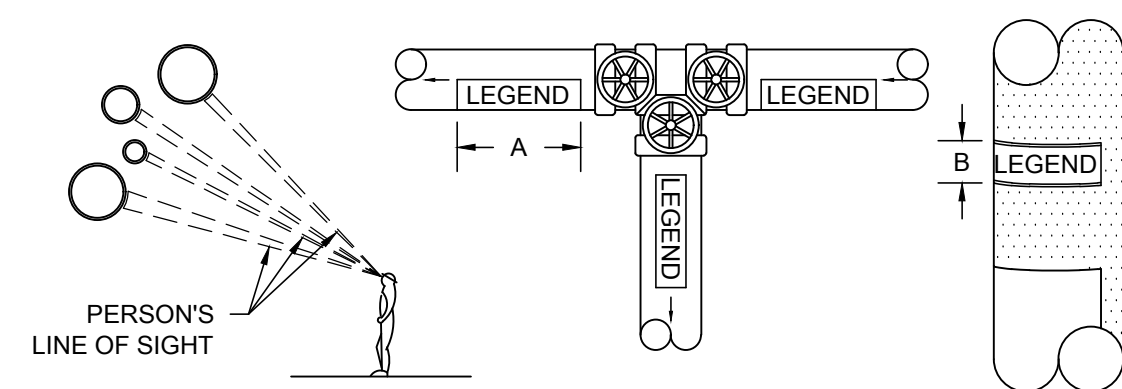
NOTES:
PLACE HANGER WITHIN 1 FOOT OF EACH HORIZONTAL ELBOW, SUPPORT HORIZONTAL SOLID WASTE AND STORM PIPE NEAR EACH HUB, WITH 5 FEET MAXIMUM SPACING BETWEEN HANGERS.

VERTICAL PIPING:

1. SUPPORT VERTICAL WATER PIPING AT EVERY FLOOR.
2. SUPPORT VERTICAL SOIL PIPE AT EACH FLOOR AT HUB.

WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION PROVIDE MULTIPLE OR TRAPEZE HANGERS.
WHERE PRACTICAL, SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZONTAL PIPING.

5 PIPE HANGER DETAIL
SCALE: NO SCALE



- NOTES:
1. IDENTIFICATION MARKERS ARE TO BE PLACED ON ALL COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS, ADJACENT TO ALL VALVES OR BRANCHES, AND LOCATED AT BOTH SIDES OF A WALL/FLOOR PENETRATION. ARROWS OF SAME COLOR SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING THE DIRECTION OF FLOW.

SIZE OF LEGEND LETTERS		
OUTSIDE DIAMETER OF PIPE OR COVERING	LENGTH OF COLOR FIELD "A"	SIZE OF LETTERS "B"
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 6"	12"	1-1/4"
6" TO 10"	24"	2-1/2"
OVER 10"	32"	3-1/2"

PLAN TAG	SERVICE	IDENTIFICATION MARKER
SAN	SANITARY	WHITE LETTERING ON GREEN BACKGROUND
V	VENT	WHITE LETTERING ON GREEN BACKGROUND
ST	STORM	WHITE LETTERING ON GREEN BACKGROUND
NP	NON-POTABLE COLD WATER	BLACK LETTERING ON YELLOW BACKGROUND
???	RAINWATER HARVESTED WATER	WHITE LETTERING ON PURPLE BACKGROUND
CW	DOMESTIC COLD WATER	WHITE LETTERING ON GREEN BACKGROUND
HW	DOMESTIC HOT WATER	BLACK LETTERING ON YELLOW BACKGROUND
HWR	DOMESTIC HOT WATER RETURN	BLACK LETTERING ON YELLOW BACKGROUND

6 PIPE IDENTIFICATION DETAIL
SCALE: NO SCALE

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ELARA

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FACILITIES AUTHORITY



KEY PLAN

ISSUE/REVISION:

REV.	DATE	DESCRIPTION
-	12/26/21	ISSUE FOR BID
Δ	12/27/21	BID ADDENDUM #1

PROJECT:

GUARANTEED RATE FIELD -
WASTE AND VENT PIPING
PHASE X

333 W 35TH STREET,
CHICAGO, ILLINOIS 60616

DRAWING TITLE:

PLUMBING DETAILS

DESIGNED BY: DA

CHECKED BY: MS

PROJECT NO: 21275

SCALE: NO SCALE

SHEET NO.

P3.01



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EXPANSION TANK SCHEDULE												
EQUIP. TAG	ABB.	NO.	SERVICE	LOCATION	MAXIMUM ACCEPTANCE (GALLONS)	TOTAL VOLUME (GALLONS)	WORKING PRESSURE (PSI)	SIZE (APPROX)	MFR	MODEL	100% FULL WEIGHT (LBS)	NOTES
ET	3.24		EW4-3.24	JANITOR 3.24.05	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	3.41		EW4-3.41	JANITOR 3.41.05	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	4.19		ETR DHW	JANITOR 4.19.02	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	4.22		ETR DHW	STORAGE 4.22.03	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	4.23		ETR DHW	JANITOR 4.23.03	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	4.42		ETR DHW	JANITOR 4.42.01	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	5.16		EW4-5.16	JANITOR 5.16.03	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	5.19		EW4-5.19	JANITOR 5.19.03	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	5.24		EW4-5.24	JANITOR 5.24.04	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	5.27		EW4-5.27	JANITOR 5.27.04	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	5.33		EW4-5.33	JANITOR 5.33.03	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	5.41		EW4-5.41	JANITOR 5.41.04	0.9	2	150	13" X 8" DIA.	AMTROL	ST-5	21.6	1-5
ET	6.14		EW4-6.14	JANITOR 6.14.03	3.2	4.4	150	15" X 11" DIA.	AMTROL	ST-12	45.6	1-5
ET	6.19		EW4-6.19	JANITOR 6.19.02	3.2	4.4	150	15" X 11" DIA.	AMTROL	ST-12	45.6	1-5
ET	6.27		EW4-6.27	JANITOR 6.27.02	3.2	4.4	150	15" X 11" DIA.	AMTROL	ST-12	45.6	1-5
ET	6.35		EW4-6.35	JANITOR 6.35.02	3.2	4.4	150	15" X 11" DIA.	AMTROL	ST-12	45.6	1-5
ET	6.41		EW4-6.41	JANITOR 6.41.02	3.2	4.4	150	15" X 11" DIA.	AMTROL	ST-12	45.6	1-5
ET	6.46		EW4-6.46	JANITOR 6.46.02	3.2	4.4	150	15" X 11" DIA.	AMTROL	ST-12	45.6	1-5
NOTES:												
1. PLUMBING CONTRACTOR SHALL PROPERLY CHARGE EXPANSION TANK PRIOR TO INSTALLATION PER MANUFACTURER GUIDELINES.												
2. SUPPORT INDIVIDUALLY FROM STRUCTURE. DO NOT RELY ON PIPING OR WATER HEATER SUPPORTS.												
3. THERMAL EXPANSION TANK SHALL BE CONNECTED TO THE COLD WATER SUPPLY TO THE WATER HEATER WITH NO VALVES OR OTHER DEVICES LOCATED BETWEEN THE EXPANSION TANK AND THE WATER HEATER.												
4. TANK SHALL BE ASME RATED.												
5. PROVIDE WITH 2-YEAR WARRANTY PARTS AND LABOR.												

ELECTRIC WATER HEATER SCHEDULE														
EQUIP TAG	LOCATION	TYPE	MANUFACTURER	MODEL NO.	CAPACITY (GALLONS)	KW OUTPUT	ELECTRICAL VPH	AMPS	GPH RECOVERY AT 100° F RISE	GPM AT TEMP. RISE	OPERATIONAL WEIGHT (LBS.)	NOTES		
EW4	1.23	SERVICE 1.23.08	INSTANTANEOUS	EBMAX	HA027240	N/A	27	240	100	N/A	2 @ 80° F RISE	13.75	1,244	
EW4	3.24	JANITOR 3.24.05	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	3.41	JANITOR 3.41.05	STORAGE TANK	A.O. SMITH	DEL-300	30	4.5	2063	25	36	0.6	350	2-6	
EW4	5.19	JANITOR 5.19.09	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	5.19	JANITOR 5.19.03	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	5.24	JANITOR 5.24.04	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	5.27	JANITOR 5.27.04	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	5.33	JANITOR 5.33.03	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	5.41	JANITOR 5.41.04	STORAGE TANK	A.O. SMITH	DEL-205	20	6.0	2063	17	24	0.4	240	2-6	
EW4	6.14	JANITOR 6.14.03	STORAGE TANK	A.O. SMITH	DEL-300	30	9.0	2063	25	36	0.6	350	2-6	
EW4	6.19	JANITOR 6.19.02	STORAGE TANK	A.O. SMITH	DEL-300	30	9.0	2063	25	36	0.6	350	2-6	
EW4	6.27	JANITOR 6.27.02	STORAGE TANK	A.O. SMITH	DEL-300	30	9.0	2063	25	36	0.6	350	2-6	
EW4	6.35	JANITOR 6.35.02	STORAGE TANK	A.O. SMITH	DEL-300	30	9.0	2063	25	36	0.6	350	2-6	
EW4	6.41	JANITOR 6.41.02	STORAGE TANK	A.O. SMITH	DEL-300	30	9.0	2063	25	36	0.6	350	2-6	
EW4	6.46	JANITOR 6.46.02	STORAGE TANK	A.O. SMITH	DEL-300	30	9.0	2063	25	36	0.6	350	2-6	
NOTES:														
1. WALL-MOUNT WATER HEATER ON CONTRACTOR PROVIDED FRAME ABOVE THE CEILING.														
2. PROVIDE AND INSTALL 1" RP RELIEF VALVE AND PIPING, DRAIN PAN, DRAIN PIPING, AND DRAIN PIPING FROM MAIN WATER HEATER DRAIN VALVE. ALL DRAIN LINES TO BE TERMINATED 2" ABOVE FLOOD RIM OF RECIPIER. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.														
3. PROVIDE ALL METAL PLATFORMS FOR WATER HEATER SUPPORT. SECURE TO WALL AND/OR FLOOR.														
4. PROVIDE CODE COMPLIANT SAFETY DEVICES, VALVE LOCATION, AND DISCHARGE PIPING OF ANY SAFETY DEVICE SHALL BE IN PROXIMITY TO REQUIRED FLOOR DRAIN OR APPROVED RECEPTOR.														
5. PROVIDE THERMAL EXPANSION TANK IN THE COLD WATER SUPPLY FOR WATER HEATER PLANT WITH NO VALVES OR OTHER DEVICES LOCATED BETWEEN THE EXPANSION TANK AND THE HEATER. SEE EXPANSION TANK SCHEDULE.														
6. PROVIDE WITH STANDARD WARRANTY.														

SEWAGE EJECTOR PUMP & BASIN SCHEDULE																																	
EQUIP. TAG		SERVICE	PUMP(S)														BASIN							BASIN COVER									
ABB.	NO.		MANUFACTURER	MODEL	TYPE	PUMP QTY.	GPM	T.D.H (FT.)	MOTOR (HP)	VOLTS	PHASE	CYC.	RPM	NON-OVER-LOADING	COATING	OIL SENSING	MANUFACTURER	SIZE	MATERIAL	FLANGE	INLET(S)		OUTLET(S)		MANUFACTURER	THICKNESS	MATERIAL	COATING	ACCESS TYPE / SIZE	NOTES			
SE	1E-01	CLUBHOUSE RESTROOMS	METROPOLITAN	S450 500	SUBMERSIBLE DUPLEX	2	150	45	5	480	3	60	1750	Y	POWDER COATED EPOXY	NO	EXISTING TO REMAIN: 60" I.D. x 16' 0" DEEP (CONTRACTOR TO FIELD VERIFY PRIOR TO EQUIPMENT RELEASE)										METROPOLITAN	14 GA	STEEL	POWDER COATED	PUMP DISCHARGE CONNECTIONS ELECTRICAL CONNECTIONS HINGED HATCH W/ HANDLE, 80 HINGES AND HARDWARE (GASKETED)	TWO 4" CAST IRON HUB ONE 3" NPT 26" X 24" MINIMUM	1-6
NOTES:																																	
1. PROVIDE WITH NEW FLOAT BASED PUMP CONTROLLER AND ASSOCIATED PANEL. SEE SPECIFICATIONS FOR MORE DETAILS.														3. PROVIDE WITH VORTEX-TYPE FULLY-RECESSED IMPELLERS.							5. COORDINATE EJECTOR PIT LOCATION AVAILABILITY AND ACCESS WITH ISFA ADMINISTRATIVE COORDINATOR RUSSELL LEVINE. PROVIDE 2 WORKING DAYS NOTICE MINIMUM BEFORE REQUIRING ACCESS.												
2. PROVIDE WITH UNDERCOVER MOUNTED, FULLY METAL TRACK SYSTEM FOR RETRIEVING AND LOWERING PUMPS.														4. CONTRACTOR SHALL FIELD VERIFY SYSTEM PARAMETERS WITH EQUIPMENT PROVIDER PRIOR TO RELEASE OF EQUIPMENT.							6. INSTALLATION OF NEW SEWAGE EJECTOR WILL REQUIRE AN INCREASE IN AVAILABLE POWER. COORDINATE ADDITIONAL ELECTRICAL WORK WITH NOTES ON THE FLOOR PLAN.												

PLUMBING FIXTURE SCHEDULE													
EQUIP. TAG ABB.	NO.	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	COLOR/MATERIAL	TRAP	CARRIER	MOUNTING HEIGHT	SUPPLY FITTING	STOP VALVE	NOTES	
L	1	LAVATORY FAUCET	SINGLE HOLE SENSOR OPERATED	SYMONS	ULTRASENSE	POLISHED CHROME	N/A	N/A	VANITY TOP	-	-	1-5	
WC	1	ADA WATER CLOSET	FLUSH VALVE	SLOAN	REGAL 110. EXPOSED SENSOR FLUSH VALVE. 3.5 GPF. BATTERY POWERED SIDE MOUNT OPERATOR. APPROVED FOR RETROFIT APPLICATIONS.	POLISHED CHROME	N/A	N/A	VANITY TOP	-	-	1, 5, 6	
WC	2	WATER CLOSET	FLUSH VALVE	SLOAN	REGAL 116. EXPOSED SENSOR FLUSH VALVE. 3.5 GPF. BATTERY POWERED SIDE MOUNT OPERATOR. PROVIDE WITH EXTENSION TUBE FOR ELEVATED VACUUM BREAKER. APPROVED FOR RETROFIT APPLICATIONS.	POLISHED CHROME	N/A	N/A	VANITY TOP	-	-	5, 6	
UR	1	URINAL	FLUSH VALVE	SLOAN	REGAL 186. EXPOSED SENSOR FLUSH VALVE. 3.5 GPF. BATTERY POWERED SIDE MOUNT OPERATOR. APPROVED FOR RETROFIT APPLICATIONS.	POLISHED CHROME	N/A	N/A	VANITY TOP	-	-	5, 6	
NOTES:													
1. FIXTURE SHALL REMAIN HANDICAPPED ACCESSIBLE.													
2. PROVIDE WATER CONSERVING PRESSURE COMPENSATING VANDAL RESISTANT AERATOR FOR FAUCET.													
3. FIXTURE TO UTILIZE BATTERY. BATTERY SHOULD BE ACCESSIBLE WITHOUT COMPLETE DISASSEMBLY OF FAUCET.													
4. PROVIDE CODE COMPLIANT THERMOSTATIC MIXING VALVE FOR ALL PUBLIC LAVATORIES.													
5. PROVIDE 2-YEAR WARRANTY, PARTS, AND LABOR.													
6. EXISTING PORCELAIN FIXTURE TO REMAIN. FLUSH VALVE MUST MATCH FLOW REQUIREMENTS OF EXISTING TO REMAIN FIXTURE.													

KEY PLAN

ISSUE/REVISION:

REV.	DATE	DESCRIPTION
-	12/01/21	ISSUE FOR BID
12/27/21	12/27/21	BID ADDENDUM #1

PROJECT:

GUARANTEED RATE FIELD - WASTE AND VENT PIPING PHASE X

333 W 35TH STREET, CHICAGO, ILLINOIS 60616

DRAWING TITLE:

PLUMBING SCHEDULES

DESIGNED BY:

DA

CHECKED BY:

MS

PROJECT NO:

21275

SCALE:

NO SCALE

SHEET NO.

12/27/2021

ISSUED FOR BID ADDENDUM

PRELIMINARY - NOT FOR CONSTRUCTION

P4.01

I. GENERAL NOTES

- A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN CONFORMANCE WITH ALL GOVERNING NATIONAL, STATE, AND LOCAL CODES HAVING JURISDICTION.
- B. CONTRACTOR SHALL REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL ARCHITECTURAL, CIVIL, SITE, LANDSCAPING, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS, AS WELL AS ALL SPECIFICATIONS AND INSTRUCTIONS TO BIDDERS. THIS CONTRACTOR SHALL VISIT THE SITE AND MAKE A DETAILED INSPECTION OF THE SPECIFIED WORK TO DEVELOP KNOWLEDGE OF ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THE CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE WORK PERFORMED BY OTHER TRADES AND/OR CONTRACTORS, AND SHALL MAKE SUCH FIELD ADJUSTMENTS AS ARE REQUIRED TO ACCOMMODATE FIELD CONDITIONS. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO OWNER.
- C. SHOULD CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE DRAWINGS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, OR DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE REPRESENTED IN THE DRAWINGS, OR CONFLICTS BETWEEN HIS WORK AND THAT OF OTHER TRADES, OR BE IN DOUBT AS TO THE MEANING OF ANY CONTRACT DOCUMENTS, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ENGINEER IN WRITING AND SHALL OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS CONTRACTOR'S REPRESENTATION THAT NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE AWARDED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THIS REQUIREMENT.
- D. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, REQUIREMENTS FOR, AND LOCATION OF THE WORK INCLUDED UNDER THIS CONTRACT. ALL WORK REQUIRED TO AFFECT THE LOCATION DESIGN, INCLUDING DETAILS NOT SHOWN BUT WHOSE INCLUSION WOULD BE DEEMED A REQUIREMENT BY A KNOWLEDGEABLE TRADESMAN, BUILDING ENGINEER, OR TECHNICIAN, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- E. IT IS THE INTENT OF THESE DOCUMENTS THAT THE CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS, AND APPURTENANCES REQUIRED TO SET THE NEW SYSTEMS INTO OPERATION, UNLESS OTHERWISE NOTED.
- F. CONTRACTOR SHALL VERIFY ALL MOUNTING, ARRANGEMENTS, HEIGHTS, AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, WEIGHT, OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY SPECIFIC REQUIREMENTS AND BASE HIS WORK ON THEM. THE SAME CARE MUST BE TAKEN WITH RESPECT TO INFORMATION FURNISHED BY THIS CONTRACTOR TO HIS SUBCONTRACTORS OR TO OTHER CONTRACTORS EMPLOYED BY THE OWNER ON THIS PROJECT. THIS CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY CHANGE ORDERS NECESSITATED BY INACCURATE OR INCORRECT INFORMATION FURNISHED TO OTHER CONTRACTORS. NO ADDITIONS TO THE CONTRACT AMOUNT WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS OR IN CONFLICT WITH OTHER WORK.
- G. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FOR AND OBTAINING ALL APPLICABLE PERMITS. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, AND INSPECTIONS APPLICABLE TO THIS WORK, AND SUCH COSTS SHALL BE INCLUDED IN HIS BID. NO WORK UNLESS OTHERWISE NOTED. THIS CONTRACTOR SHALL ALSO INCLUDE IN HIS BID ALL FEES ASSOCIATED WITH THE SERVICES OF A PERMIT EXPEDITER AS MAY BE REQUIRED TO MEET THE PROJECT SCHEDULE.
- H. CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK AND SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY LAWS, INCLUDING THE REQUIREMENTS OF THE DEPARTMENT OF BUILDING, ALL NECESSARY SIGNS, LIGHTS, AND BARRICADES REQUIRED FOR THE SAFETY OF ALL OTHER PERSONS WHO MIGHT COME IN CONTACT WITH THE CONSTRUCTION BEING PERFORMED UNDER THIS CONTRACT.
- I. ALL PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONSTRUCTION BY THIS CONTRACTOR AND TO THE SATISFACTION OF THE OWNER AND AUTHORITIES HAVING JURISDICTION.
- J. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE BUILDING OWNER'S REPRESENTATIVE REGARDING WORKSITE ACCESS, BUILDING RULES, AND REGULATIONS, INCLUDING WORKING HOURS, REFUSE DISPOSAL, DUMPSTER LOCATION, SECURITY, INTERFERENCES OF BUILDING UTILITIES OR FUNCTIONS, OWNERSHIP OF SALVAGED MATERIALS, PARKING, AND ANY OTHER ITEMS DEEMED TO BE OF MUTUAL INTEREST.
- K. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUE TO AND PROTECT FROM DAMAGE ALL EQUIPMENT AND MATERIALS IN A MANNER THAT WILL MAINTAIN AN ORDERLY, CLEAN APPEARANCE. DAMAGED EQUIPMENT AND MATERIAL IS SUBJECT TO REJECTION BY THE OWNER'S REPRESENTATIVE. REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- L. PROVIDE ALL HOLES, SLEEVES, CUTTING, PATCHING, AND SEALING FOR INSTALLATION OF THIS WORK. SEALING SHALL CONFORM TO THE FIRE RATING OF ALL BUILDING ASSEMBLIES. ALL EXTERIOR PENETRATIONS SHALL BE MADE WEATHER TIGHT.
- M. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND SCANNING OBSTRUCTIONS/REINFORCEMENTS WHERE PENETRATIONS ARE TO BE MADE. ANY DAMAGE RESULTING FROM PENETRATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- N. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATING ACTIVITIES OR UNDERGROUND WORK. PROVIDE SOIL EROSION AND SEDIMENT CONTROL FOR EXCAVATION OF THE AREA ACCORDING TO ALL AUTHORITIES HAVING JURISDICTION.
- O. CONTRACTOR SHALL NOT MODIFY OR REMOVE ANYTHING FOUND TO BE IN THE PATH OF NEW SYSTEMS TO BE INSTALLED WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- P. ALL ROOFING WORK SHALL BE BY OWNER APPROVED ROOFING CONTRACTOR(S) TO MAINTAIN ROOF WARRANTIES. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ROOFING CONTRACTOR(S) TO ENSURE WEATHER TIGHT CONSTRUCTION AND TIMELY COMPLETION OF ALL WORK.
- Q. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTINUOUS CLEANING OF ALL DUST AND DEBRIS RESULTING FROM THEIR WORK.
- R. CONTRACTOR TO DETERMINE REQUIRED SYSTEM SHUTDOWNS. MAXIMUM DURATION OF SYSTEM SHUTDOWN SHALL BE AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE. SHUTDOWN SHALL BE COORDINATED ON THE JOB SITE WITH THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE (1) WEEK ADVANCE NOTICE OF SYSTEM SHUTDOWNS.
- S. CONTRACTOR AND SUB-CONTRACTORS SHALL BE PROPERLY LICENSED, BONDED, AND INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP OF THEIR TRADE ON THIS PROJECT.
- T. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SAFETY.
- U. REMOVAL AND RESTORATION OF FINISHED SURFACES AS REQUIRED TO COMPLETE THIS SCOPE OF WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR.
- V. CONTRACTOR SHALL COORDINATE USE OF THE BUILDING ELEVATOR(S) AND DELIVERIES WITH THE OWNER.
- W. MAINTAIN ALL MANUFACTURER RECOMMENDED AND CODE REQUIRED CLEARANCES.
- X. CONTRACTOR SHALL PROVIDE TRAINING TO THE OPERATING STAFF FOR NEW SYSTEMS AND EQUIPMENT. REFER TO OWNER TRAINING SPECIFICATION SECTION FOR ADDITIONAL INFORMATION.

II. GENERAL DEMOLITION NOTES

- A. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION.
- B. ALL DEMOLITION AS CALLED FOR ON THE DEMOLITION DRAWINGS SHALL BE UNDER THIS CONTRACTOR'S WORK.
- C. CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK, NOT ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. MAY BE INDICATED ON DOCUMENTS.
- D. THE INTENT OF THE DEMOLITION IS TO REMOVE THE ITEMS IN THEIR ENTIRETY. THIS INCLUDES ALL ASSOCIATED SUPPORT BASES, ANCHORAGE, HANGERS, CONTROLS INCLUDING INSTRUMENTS, GASKETS AND CONDUIT EXPOSED IN MECHANICAL ROOMS, PIPING, DUCTWORK, WIRING, ETC. CAP EXISTING SYSTEMS TO REMAIN AT ACTIVE MAINS OR OTHER ACTIVE BRANCH LINES. DEAD END LENGTHS SHALL BE CODE COMPLIANT. LABEL ABANDONED CONTROLS CONDUIT AND WIRE.
- E. BEFORE STARTING ANY DEMOLITION WORK ON EQUIPMENT WHICH HAS AN ELECTRICAL CONNECTION, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT THE POWER AND REMOVE CONDUIT, WIRING, DISCONNECT SWITCHES, AND STARTERS UNDER THIS CONTRACT.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS CLEANUP THROUGHOUT THE COURSE OF THE DEMOLITION WORK.
- G. ALL EQUIPMENT, MATERIAL, ETC. THAT IS DEMOLISHED SHALL BE REMOVED FROM THE BUILDING SITE BY THIS CONTRACTOR IN A PROPER AND LEGAL MANNER. NO ITEM WHICH IS DEMOLISHED MAY BE REUSED UNLESS SPECIFICALLY NOTED.
- H. ANY CONTROLS HARDWARE OR PROGRAMMING NO LONGER NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATIONS SHALL BE DISCOMMISSIONED.
- I. ALL DEMOLITION WORK OF THE EXISTING CONTROLS FOR EQUIPMENT SHOWN ON THE DRAWINGS TO BE DEMOLISHED SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL MODIFY THE EXISTING CONTROLS AS REQUIRED TO ENSURE OPERATION OF EXISTING EQUIPMENT TO REMAIN. ALL EXISTING CONTROLS SHOWN TO BE DEMOLISHED SHALL BE REMOVED AND TURNED OVER TO THE OWNER.

III. SHOP DRAWINGS, SUBMITTALS, AND AS-BUILTS

- A. CONTRACTOR SHALL SUBMIT TO THE ENGINEER COORDINATED SHOP DRAWINGS. SHOP DRAWINGS SHALL BE 1/4" SCALE AND SHALL INDICATE THE LOCATION OF ALL EQUIPMENT, CONTROLS, GRAPHICS, CONTROLS NETWORK ARCHITECTURE, CONTROL POINTS LIST, OPERATING SEQUENCES, CONTROL DEVICES WITH SETTINGS OR ADJUSTABLE RANGES, ETC. SHOP DRAWINGS SHALL INCLUDE ALL PIPE SIZES, PIPE SLOPES, CHANGES IN ELEVATION, CLEANOUT LOCATIONS, VALVE LOCATIONS, DRAIN DOWN LOCATIONS, ACCESS PANEL LOCATIONS, FIXTURES, DRAINS, UNDERGROUND COMPONENTS, ETC. CONTRACTOR SHALL PROCEED WITH WORK ONLY AFTER RECEIVING SHOP DRAWINGS MARKED REVIEWED.
- B. SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, CONTRACTOR SHALL SUBMIT TO THE ENGINEER SHOP DRAWINGS SHOWING SUCH CHANGES. CONTRACTOR SHALL PROCEED WITH SITE WORK ONLY AFTER RECEIVING SHOP DRAWINGS MARKED REVIEWED.
- C. CONTRACTOR SHALL SUBMIT TO THE ENGINEER MANUFACTURERS' SUBMITTALS FOR ALL EQUIPMENT AND ACCESSORIES. CONTRACTOR SHALL PROCEED WITH PROCUREMENT ONLY AFTER RECEIVING SUBMITTALS MARKED REVIEWED.
- D. CONTRACTOR SHALL SUBMIT TO THE ENGINEER ONE (1) FULL-SIZE PAPER COPY AND AN ELECTRONIC FILE OF THE AS-BUILT DRAWINGS. RECORD LOCATIONS OF CONTROL COMPONENTS, INCLUDING CONTROL UNITS, GAUGES, AND SENSORS. REVISE SHOP DRAWINGS TO REFLECT ACTUAL INSTALLATION AND OPERATING SEQUENCES.
- E. CONTRACTOR SHALL SUBMIT TO THE ENGINEER ONE (1) PAPER COPY AND AN ELECTRONIC FILE OF ALL EQUIPMENT INFORMATION, INCLUDING OPERATIONAL AND MAINTENANCE INSTRUCTIONS, PARTS LISTS, SUBMITTALS, AND DESCRIPTIVE LITERATURE.

IV. MATERIALS AND EQUIPMENT

- A. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE STATED IN THESE CONTRACT DOCUMENTS, AND FREE FROM DEFECTS.
- B. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
- C. CONTRACTOR IS REQUIRED TO REVIEW ALL DRAWINGS, MATERIALS AND EQUIPMENT SHOWN ON THE SCHEDULES AND DETAILS AND HIS BID. NO MATERIAL OR EQUIPMENT OR EQUIPMENT SUBSTITUTIONS WILL BE CONSIDERED AFTER THE AWARD OF CONTRACT. IF CONTRACTOR DESIRES TO SUBSTITUTE MATERIAL, CONTRACTOR MUST SUBMIT AS AT LEAST TWO (2) SUBMITTALS WITH HIS BASE BID A LIST OF SUCH ITEMS INDICATING ITEM, MANUFACTURER, MODEL NUMBER, AND AMOUNT TO BE ADDED TO OR DEDUCTED FROM THE BASE BID. EACH SUCH MATERIAL OR EQUIPMENT SUBSTITUTION ITEM SHALL BE LISTED SEPARATELY.

- D. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT FURNISHED BY THE CONTRACTOR OR PROVIDED TO THE CONTRACTOR BY THE OWNER, AND SHALL SECURE SUCH EQUIPMENT FROM DAMAGE UNTIL TIME OF FINAL ACCEPTANCE BY THE OWNER.
- E. CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURE, SLEEVES, SHIMS, ETC. REQUIRED TO LEVEL AND SUPPORT EQUIPMENT AND MATERIALS. INSTALL NONMETALLIC NON-SHRINK GROUT FOR LEVELING EQUIPMENT BASES.
- F. CONTRACTOR SHALL VERIFY ALL PHYSICAL, ELECTRICAL, INGRESS, ETC. REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING.
- G. CONTRACTOR SHALL SUBMIT TO OWNER THE PROPOSED LABEL IDENTIFICATION PRODUCT FOR EACH PIECE OF EQUIPMENT PRIOR TO ORDERING. EQUIPMENT LABEL IDENTIFICATION SHALL CONFORM TO THE FOLLOWING:
1. MATERIAL AND THICKNESS: MULTILAYER, MULTICOLOR, PLASTIC LABELS FOR MECHANICAL ENGRAVING, 1/8 INCH THICK, AND HAVING PREDRILLED HOLES FOR ATTACHMENT HARDWARE.
 2. LETTER COLOR: WHITE.
 3. BACKGROUND COLOR: BLUE.
 4. MAXIMUM TEMPERATURE: ABLE TO WITHSTAND TEMPERATURES UP TO 160 DEG F.
 5. MINIMUM LABEL SIZE: LENGTH AND WIDTH VARY FOR REQUIRED LABEL CONTENT, BUT NOT LESS THAN 2-1/2 BY 3/4 INCH.
 6. MINIMUM LETTER SIZE: 1/4 INCH FOR NAME OF UNITS IF VIEWING DISTANCE IS LESS THAN 24 INCHES, 1/2 INCH FOR VIEWING DISTANCES UP TO 72 INCHES, AND PROPORTIONATELY LARGER LETTERING FOR GREATER VIEWING DISTANCES. INCLUDE SECONDARY LETTERING TWO-THIRDS TO THREE-FOURTHS THE SIZE OF PRINCIPAL LETTERING.
 7. FASTENERS: STAINLESS-STEEL RIVETS OR SELF-TAPPING SCREWS.
 8. ADHESIVE: CONTACT-TYPE PERMANENT ADHESIVE, COMPATIBLE WITH LABEL AND WITH SUBSTRATE.
- H. EQUIPMENT DATA, LABELS, AND OTHER IDENTIFICATION SHALL NOT BE OBSTRUCTED.
- I. CONTRACTOR SHALL PROVIDE FILTERS, STRAINER SCREENS, ETC. FOR ALL NEW EQUIPMENT DURING CONSTRUCTION. REPLACE FILTERS, STRAINER SCREENS, ETC. WITH FINAL FILTERS, STRAINER SCREENS, ETC. AT COMPLETION OF PROJECT AND PRIOR TO TEST AND BALANCE.
- J. ANY EQUIPMENT INCLUDING BUT NOT LIMITED TO WATER HEATERS, PUMPS, PRESSURE REDUCING VALVES, PRESSURE REDUCING FITTINGS OR ECCENTRIC REDUCING COUPLINGS, ETC. FOR PAN DRAIN PAN DISCHARGE SHALL BE THROUGH AN INDIRECT WASTE PIPE BY MEANS OF AN AIR GAP OR WITH UL508 OVERFLOW SWITCH AND ALARM WHEN MEANS OF WASTE PIPE IS NOT POSSIBLE.
- K. PROVIDE UNIONS OR FLANGES AT ALL PIPING CONNECTIONS TO EQUIPMENT, CONTROL VALVES, PRESSURE REDUCING VALVES, BACK FLOW PREVENTION, ETC. ARRANGE CONNECTIONS SO THAT EQUIPMENT SERVED MAY BE REMOVED WITHOUT DISTURBING PIPING OR VALVES.

V. OWNER TRAINING

- A. THE CONTRACTOR SHALL PROVIDE DEMONSTRATION AND TRAINING TO OWNER'S PERSONNEL FOR NEW SYSTEMS AND EQUIPMENT. THE COSTS ASSOCIATED WITH THIS SHALL BE INCLUDED AS PART OF THE BASE BID UNLESS OTHERWISE NOTED.
- B. ALL EQUIPMENT MANUALS, INSTALLATION OPERATION AND MAINTENANCE MANUALS, ETC. SHALL BE TURNED OVER TO THE OWNER PRIOR TO COMMENCING OWNER DEMONSTRATION AND TRAINING. REFER TO PROJECT CLOSEOUT DOCUMENT REQUIREMENTS FOR ADDITIONAL INFORMATION.
- C. CONTRACTOR SHALL PROVIDE A MINIMUM OF 12 HOURS OF TRAINING OVER 3 SEPARATE VISITS ON SITE FOR OWNER PERSONNEL.
- D. OWNER TRAINING SHALL BE CONDUCTED AFTER FUNCTIONAL TESTING IS COMPLETE AS APPROVED BY THE ENGINEER AND (WHERE APPLICABLE) COMMISSIONING AUTHORITY.
- E. COORDINATE TRAINING WITH OWNER, ENGINEER A COMMISSIONING AUTHORITY.

VI. PIPING - POTABLE

- A. GENERAL
1. COMPLY WITH PROVISIONS OF COPPER DEVELOPMENT ASSOCIATIONS "COPPER TUBE HANDBOOK" ALL POTABLE WATER PIPING AND SYSTEM COMPONENTS SHALL COMPLY WITH NSF61 AND NSF618.1/2.
 2. SYSTEM COMPONENTS WHICH REQUIRE OBSERVATION, OPERATION, OR MAINTENANCE, SUCH AS VALVES, GAUGES, CONTROLS, STRAINERS, UNIONS, ETC., SHALL BE READILY ACCESSIBLE. THEY SHALL NOT BE CONCEALED IN CHASES OR ABOVE CEILINGS WITHOUT PROVISION FOR ACCESS. VALVES WHICH ARE NOT ACCESSIBLE FROM NORMAL WORKING LEVELS SHALL BE INSTALLED WITH CHAIN WHEELS OR EXTENSIONS.
 3. INSTALL PIPING TO PERMIT COMPLETE SYSTEM DRAINING.
 4. INSTALL INTERIOR AND EXTERIOR PIPING AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED, EXCEPT WHERE INDICATED OR APPROVED PRIOR TO INSTALLATION. RUN PIPING IN WALL CHASES, PIPE SHAFTS, HUNG CEILINGS, RECESSES, ETC. AS APPLICABLE. DO NOT RUN SERVICE PIPING IN FLOOR SLAB UNLESS SPECIFICALLY NOTED ON DRAWINGS. PIPING SHALL NOT BE COVERED OR CLOSED UNTIL TESTING IS COMPLETED.
 5. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION PLUS 1-INCH CLEARANCE AROUND INSULATION.
 6. MECHANICAL FITTINGS WILL NOT BE ALLOWED. MECHANICAL FITTINGS MAY BE BID AS AN ALTERNATE WHERE EXPOSED AND ACCESSIBLE IN MECHANICAL ROOMS.
- B. ABOVE GROUND PIPING
1. ALL PIPE SIZES: ALL PIPING SHALL BE TYPE "1" HARD COPPER PIPING WITH 95S SOLDER JOINT FITTINGS.
- C. INSULATION
1. FURNISH AND INSTALL ALL NEW PIPING, VALVES, FITTINGS, ETC. AND EXISTING PIPING AS INDICATED ON THE DOCUMENTS WITH FIBERGLASS MOLDED PIPE INSULATION APPLIED WITH AN ALL-SERVICE VAPOR BARRIER JACKET, STAPLED WITH THE SEAMS, JOINTS, AND STAPLES POINTED WITH VAPOR-PROOF MASTIC. ALL INSULATION MATERIALS SHALL COMPLY WITH CODE REQUIRED FLAME SPREAD RATINGS.
 2. ALL DAMAGED INSULATION (RESULTING FROM IMPLEMENTATION OF THIS PROJECT) ON EXISTING PIPING TO REMAIN SHALL BE REPLACED.
 3. MINIMUM INSULATION THICKNESS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND ALL APPLICABLE CODES:
 - a. DOMESTIC COLD WATER PIPING: 1"
 - b. DOMESTIC HOT WATER PIPING (1.25 NPS AND SMALLER): 1-1/2"
 - c. DOMESTIC HOT WATER PIPING (1.5 NPS AND LARGER): 2"
 - d. TEPID WATER PIPING: 1"
 4. VAPOR BARRIER JACKET SHALL HAVE FACTORY-APPLIED VAPOR RETARDER COMPOSED OF A WHITE KRAFT FACING REINFORCED WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. LAP ADHESIVE SHALL BE COMPATIBLE WITH INSULATION.
 5. FURNISH AND INSTALL PVC COVERS FOR ALL VALVES AND ALL PIPE FITTINGS.
 6. FURNISH AND INSTALL ALL EXTERIOR INSULATED PIPING WITH 3M VENTUREGLAD PLUS 1579 SERIES MULTILAYERED, SELF-ADHESIVE LAMINATE, SELF-ADHESIVE, JACKETING SYSTEM. PROVIDE WITH EMBOSSED FINISH AND COLOR SELECTED BY OWNER.
 7. ALL INSULATION SHALL BE APPLIED AFTER SUCCESSFUL PRESSURE TESTING OF PIPE.
- D. VALVES
1. VALVES SHALL BE INSTALLED AS A MEANS OF ISOLATION FOR ALL EQUIPMENT, INDIVIDUAL FIXTURES, GROUPINGS OF FIXTURES, SEPARATE ROOMS, GROUPINGS OF ROOMS, PORTIONS OF THE SYSTEM AND RISERS, EACH INDIVIDUAL BATHROOM AND KITCHEN SHALL HAVE VALVES AS A MEANS OF ISOLATION. ALL REQUIRED VALVES ARE NOT SHOWN ON FLOOR PLANS OR RISER DIAGRAMS.
 2. LOCATIONS WHERE NEW PIPING IS CONNECTED TO EXISTING SHALL BE PROVIDED WITH A NEW VALVE. PIPING THAT IS UNAFFECTED BY THIS PROJECT SHALL BE EXEMPT.
 3. MAKE PROVISIONS FOR DRAINING ALL LOW POINTS OF ALL PIPING SYSTEMS WHETHER INDICATED ON THE DRAWINGS OR NOT. USING A BALL VALVE AND THREADED HOSE CONNECTION WITH CAP. DRAINS SHALL NOT BE LESS THAN 3/4".
 4. INSTALL ALL VALVES WITH STEMS IN EITHER AN UPRIGHT (PREFERRED) OR HORIZONTAL POSITION. CONTROL VALVES SHALL BE INSTALLED WITH ACTUATOR UPWARD UNLESS NOTED OTHERWISE. OPEN VALVE HANDLE POSITION SHALL BE IN THE DIRECTION OF FLOW.
 5. PROVIDE PRESSURE REDUCING VALVES TO NOT EXCEED THE MANUFACTURER RECOMMENDED PRESSURE RATING OF EQUIPMENT OR FIXTURE.
 6. ISOLATION VALVES SHALL BE MSS SP-61, RATED FOR ZERO LEAKAGE.
 7. BALL VALVES (4 NPS AND SMALLER)
 - a. MSS SP-110
 - b. 2 PIECE LEAD-FREE BRASS BODY 600# WOG RATED, FULL PORT
 - c. LEAD-FREE FORGED BRASS BALL
 - d. MINIMUM 2-1/4" VALVE EXTENSION OR GREATER TO ALLOW OPERATION OF VALVES WITHOUT BREAKING VAPOR SEALS OR DISTURBING INSULATION
 - e. PTFE SEAT AND PACKING
 - f. LEVER HANDLE
 - g. THREADED ENDS
 - h. ACCEPTABLE MANUFACTURERS:
 - APOLLO, LEGEND, MILWAUKEE, NIBCO
 8. BUTTERFLY VALVES (5 NPS AND LARGER)
 - a. MSS SP-67
 - b. LUG TYPE WITH CAST IRON OR DUCTILE IRON BODY
 - c. STAINLESS STEEL SHAFT
 - d. PTFE SEAT/SEALS
 - e. TEN POSITION LEVER HANDLE
 - f. FLANGED ENDS
 - g. ACCEPTABLE MANUFACTURERS:
 - APOLLO, NIBCO, MILWAUKEE
 9. BUTTERFLY VALVES, HIGH PERFORMANCE (5 NPS AND LARGER)
 - a. MSS SP-68
 - b. LUG TYPE WITH LEAD FREE CARBON STEEL OR STAINLESS STEEL BODY
 - c. STAINLESS STEEL SHAFT
 - d. PTFE SEAT/SEALS
 - e. TEN POSITION LEVER HANDLE
 - f. FLANGED ENDS
 - g. ACCEPTABLE MANUFACTURERS:
 - MILWAUKEE OR EQUAL
 10. SWING CHECK VALVE (2 NPS AND SMALLER)
 - a. MSS SP-80
 - b. BRONZE BODY, BRONZE TRIM
 - c. COMPOSITION SWING DISC
 - d. THREADED ENDS
 - e. ACCEPTABLE MANUFACTURERS:
 - APOLLO, NIBCO, MILWAUKEE
 11. SPRING LOADED CHECK VALVE (2.5 NPS AND LARGER)
 - a. MSS SP-125
 - b. DUCTILE IRON BODY, BRONZE OR STAINLESS STEEL TRIM
 - c. SPRING LOADED WAFER AND EPDM SEAT
 - d. FLANGED ENDS
 - e. ACCEPTABLE MANUFACTURERS:
 - APOLLO, NIBCO, MILWAUKEE

12. BALANCING VALVES (3 NPS AND SMALLER)

- a. BRASS BODY ASTM B584-B44, BRASS BALL ASTM B16 B36000
 - b. GLASS AND CARBON FILLED THE SEAT RINGS
 - c. BRASS WITH EPT CHECK VALVES FOR READOUT VALVES
 - d. EPDM STEM "O" RING
 - e. SHALL BE DESIGNED TO PRESET BALANCE POINTS FOR PROPORTIONAL SYSTEM BALANCE PRIOR TO SYSTEM START-UP. VALVES TO HAVE MEMORY STOP FEATURE TO ALLOW VALVE TO BE CLOSED FOR SERVICE AND THEN RE-OPENED TO SET POINT WITHOUT DISTURBING THE SYSTEM
 - f. MAXIMUM WORKING PRESSURE OF 300 PSIG
 - g. ACCEPTABLE MANUFACTURERS:
 - BELL AND GOSSETT OR EQUAL
- E. ACCESSORIES
1. STRAINERS (UP TO AND INCLUDING 3")
 - a. THREADED BRASS BODY
 - b. Y PATTERN WITH 20 MESH STAINLESS STEEL PERFORATED SCREEN
 - c. ACCEPTABLE MANUFACTURERS:
 - KECKLEY, WATTS, APOLLO, NIBCO
 2. STRAINERS (4" AND UP)
 - a. FLANGED IRON BODY
 - b. Y PATTERN WITH 20 MESH STAINLESS STEEL PERFORATED SCREEN
 - c. ACCEPTABLE MANUFACTURERS:
 - KECKLEY, WATTS, APOLLO, NIBCO
 3. THERMOMETERS
 - a. SELECT INSTRUMENT RANGE SO THE ORDINARY OPERATING CONDITION IS IN THE MIDDLE AREA OF THE INSTRUMENT SCALE
 - b. STRAIGHT STEM TYPE IN SEPARABLE WELLS
 - c. SWIVEL MOUNTING SET WITH POSITIVE LOCKING DEVICE, TO BE EASILY READ FROM THE FLOOR
 - d. SIZE "F" SCALE
 - e. ACCEPTABLE MANUFACTURERS:
 - WATTS, WEISS
 4. PRESSURE GAUGES
 - a. SELECT INSTRUMENT RANGE SO THE ORDINARY OPERATING CONDITION IS IN THE MIDDLE AREA OF THE INSTRUMENT SCALE
 - b. 3/16" DIAMETER, LIQUID FILLED, 1/4" DIA. TYPE, PSI SCALE
 - c. FRONT RE-CALIBRATION ADJUSTMENT
 - d. MID SCALE ACCURACY, TWO PERCENT
 - e. BLACK SCALE ON WHITE BACKGROUND
 - f. ACCEPTABLE MANUFACTURERS:
 - WATTS, WEISS
 5. PRESSURE GAUGE TAPPIINGS
 - a. GAGE COCK: TEE OR LEVER HANDLE, BRASS
 - b. BALL VALVE: BRASS, 1/4" NPT
 - c. PULSATON DAMPER: PRESSURE SNUBBER, BRASS WITH 1/4" CONNECTIONS
 - d. SYPHON: STEEL, SCHEDULE 40, 1/4" ANGLE OR STRAIGHT PATTERN
 - e. ACCEPTABLE MANUFACTURERS:
 - WATTS, WEISS
 6. AIR VENTS
 - a. MANUAL: TYPE "F" OR LESS SHORT VERTICAL SECTIONS OF PIPE WITH ISOLATING BALL VALVE TOP/IRON AIR CHAMBER WITH 1/8" BRASS NEEDLE VALVE AT TOP OF CHAMBER
 - b. FLOAT: TYPE CAST IRON BODY, CAST IRON COVER, STAINLESS STEEL SEAT AND FLOAT, SUITABLE FOR SYSTEM OPERATING TEMPERATURE AND PRESSURE, WITH ISOLATING BALL VALVE
 - c. ACCEPTABLE MANUFACTURERS:
 - METRIFLEX OR EQUAL
 7. REDUCERS
 - a. IF A REDUCTION IS REQUIRED AT EQUIPMENT OR PIPING ACCESSORY, THE REDUCER SHALL BE INSTALLED ABOUT THE INLET AND/OR OUTLET OF THE DEVICE
 - b. REDUCER SHALL BE INSTALLED BETWEEN THE EQUIPMENT OR ACCESSORY AND THE EQUIPMENT REQUIRED TO PREVENT POCKETING OF AIR AND LIQUID
 - c. WHERE ECCENTRIC REDUCERS ARE USED, THE STRAIGHT SIDE SHOULD BE INSTALLED ON TOP FOR FUM SUGTION AND ON THE BOTTOM FOR ALL OTHER LINES.
 8. AIR CHAMBERS
 - a. PROVIDE MINIMUM 12" LONG AIR CHAMBERS FOR HOT AND COLD WATER CONNECTIONS TO ALL SUPPLY FIXTURES.
 - b. PROVIDE MINIMUM 24" LONG AIR CHAMBERS AT THE TOP OF ALL HOT AND COLD WATER RISERS.
 9. WATER HAMMER ARRESTORS
 - a. MAINTENANCE FREE PISTON STYLE
 - b. NPT SOLID HEX BRASS AT PIPING CONNECTION
 - c. POLIESTER - POLYIMIDE
 - d. ASSE 10/10 APPROVED
 - e. FACTORY PRE-CHARGED WITH AIR AND PERMANENTLY SEALED
 - f. COPPER BODY, POLYPROPYLENE PISTON, EPDM O-RING
 - g. PROVIDE ACCESS FOR FUTURE REPLACEMENT
 10. INSTALL AIR VENTS AT HIGH POINTS IN ALL PIPING AND AS REQUIRED FOR SYSTEM VENTING.
 11. INSTALL DRAIN VALVES AT LOW POINTS IN PIPING AND AS REQUIRED FOR SYSTEM DRAINAGE. DRAINS SHALL NOT BE LESS THAN 3/4".
 12. RELIEF VALVES SHALL BE OF ASME CODE CONSTRUCTION AND MEET OR EXCEED LOCAL CODES AND ORDINANCES.
 13. INSTALL UNIONS IN PIPING ADJACENT TO EACH PIECE OF EQUIPMENT HAVING A 4-INCH OR SMALLER PIPE CONNECTION.
 14. INSTALL FLANGES IN PIPING ADJACENT TO EACH PIECE OF EQUIPMENT HAVING A 5-INCH OR LARGER PIPE CONNECTION.
 15. INSTALL DI-ELECTRIC FITTINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS.

F. PIPE LABELING

1. STENCIL TYPE MARKERS WILL NOT BE PERMITTED. ONLY FACTORY MANUFACTURED MARKERS AS FOLLOWS WILL BE ACCEPTABLE:
 - a. FOR INDOOR USE, UTILIZE ADHESIVE PIPE MARKERS - LARGEST SIZE POSSIBLE GIVEN THE PIPE OR INSULATION OUTER DIAMETER, WITH BOTH ENDS SECURED WITH ARROW TAPE OF MATCHING SIZE AND COLOR SCHEME.
 - b. FOR OUTDOOR USE, UTILIZE "STRIP AROUND" TYPE SECURED WITH HEAVY DUTY ZIP TIES.
2. IDENTIFICATION MARKERS SHALL BE PLACED ON ALL EXPOSED AND CONCEALED PIPES AT 20'-0" INTERVALS, AT ALL VALVES AND BRANCHES, AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING DIRECTION OF FLOW.
3. COORDINATE COLOR SCHEME WITH EXISTING PIPING AND SUBMIT TO ENGINEER PRIOR TO ORDERING.
4. VALVE IDENTIFICATION
 1. FURNISH AND INSTALL TAGS FOR ALL NEW VALVES.
 2. VALVE TAGS SHALL HAVE UNIQUE NUMBERS AND SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO ORDERING.
 3. VALVE TAGS SHALL BE BRASS MATERIAL AND SHALL BE FASTENED WITH A STURDY CHAIN.
 4. VALVE TAG NUMBERS SHALL BE INDICATED ON THE AS-BUILT DRAWINGS, AS-BUILT DRAWINGS SHALL INCLUDE VALVE SCHEDULE TO BE DISPLAYED WITHIN THE BUILDING.

VII. PIPING - WASTE, VENT, AND STORM

- A. GENERAL
1. COMPLY WITH PROVISIONS OF CAST IRON SOIL PIPE INSTITUTE (CISPI) HANDBOOK, "COPPER DEVELOPMENT ASSOCIATIONS "COPPER TUBE HANDBOOK", AND AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM).
 2. SYSTEM COMPONENTS WHICH REQUIRE OBSERVATION, OPERATION, OR MAINTENANCE, SUCH AS VALVES, CLEANOUTS, DRAINS, EQUIPMENT, CONTROLS, UNIONS, ETC., SHALL BE READILY ACCESSIBLE. THEY SHALL NOT BE CONCEALED IN CHASES OR ABOVE CEILINGS WITHOUT PROVISION FOR ACCESS.
 3. INSTALL PIPING WITH SLOPE TO ALLOW FOR PROPER FUNCTIONALITY. PIPING SHALL BE INSTALLED WITH THE MINIMUM FOLLOWING SLOPES OR AS INDICATED ON THE DRAWINGS:
 - a. SANITARY, WASTE, AND VENT PIPING
 - 3" AND SMALLER: 1/8" PER FOOT
 - 4" AND LARGER: 1/8" PER FOOT
 - b. STORM PIPING
 - ALL SIZES: 1/8" PER FOOT
 - KITCHEN WASTE PIPING
 - ALL SIZES: 1/4" PER FOOT
 4. INSTALL INTERIOR AND EXTERIOR PIPING AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED, EXCEPT WHERE INDICATED OR APPROVED PRIOR TO INSTALLATION. RUN PIPING IN WALL CHASES, PIPE SHAFTS, HUNG CEILINGS, RECESSES, ETC. AS APPLICABLE. DO NOT RUN SERVICE PIPING IN FLOOR SLAB UNLESS SPECIFICALLY NOTED ON DRAWINGS. PIPING SHALL NOT BE COVERED OR CLOSED UNTIL TESTING IS COMPLETED.
 5. PROVIDE WASTE AND STORM CLEANOUTS AT THE BASE OF RISERS, ENDS OF HORIZONTAL MAINS, CHANGES IN DIRECTION, CODE SPECIFIED INTERVALS OR AS SPECIFIED ON DOCUMENTS. INTENT IS TO ALLOW ALL WASTE AND STORM PIPING TO BE RODDED AFTER INSTALLATION.
 6. FOR VENTS PENETRATING ROOFS, PROVIDE 24 INCH SQUARE FLASHING AND TURN VENT FLASHING DOWN INTO VENT PIPE.
 7. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION PLUS 1-INCH CLEARANCE AROUND INSULATION.
 8. ALL CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED IN USA BY A MEMBER OF CISPI.
- B. UNDERGROUND PIPING
1. ALL PIPE SIZES: HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS, SERVICE CLASS ASTM A 74 WITH COMPRESSION JOINTS AND ASTM C 564 RUBBER GASKETS.
 2. FORCE MAINS:
 - a. FOR 4 INCH AND SMALLER: ALL PIPING SHALL BE TYPE "1" HARD COPPER PIPING WITH 95S SOLDER JOINT FITTINGS
 - b. FOR 6" AND LARGER: TYPE "1" HARD COPPER PIPING WITH 95S SOLDER JOINT FITTINGS OR DUCTILE-IRON PIPE WITH PUSH-ON JOINT DUCTILE-IRON FITTINGS, GASKETS, AND GASKETED JOINTS
 3. ABOVE GROUND PIPING
 1. 2-1/2 INCH AND SMALLER: ALL PIPING SHALL BE TYPE "1" HARD COPPER PIPING WITH SOLDER JOINT DRAINAGE FITTINGS.
 2. 3" AND LARGER: HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS, SERVICE CLASS ASTM A 74 WITH ASTM B 29 LEAD AND ORGUM JOINTS.
 3. 3" AND LARGER: HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS, SERVICE CLASS ASTM A 888 OR EQUIVALENT WITH NON-HUB AND JOINT. 3" OR CIPB 310, STAINLESS-STEEL CORRODED SLEEVE WITH INTEGRAL, CENTER PIPE STOP. INSTALL WITH THRUST RESTRAINTS FOLLOWING CISPI RECOMMENDATIONS.
 4. FORCE MAINS:

- a. FOR 4 INCH AND SMALLER: ALL PIPING SHALL BE TYPE "1" HARD COPPER PIPING WITH 95S SOLDER JOINT FITTINGS.
- b. FOR 6" AND LARGER: TYPE "1" HARD COPPER PIPING WITH 95S SOLDER JOINT FITTINGS OR SCHEDULE 40 STEEL PIPING WITH THREADED JOINT FITTINGS

D. LABELING

1. UN-INSULATED PIPING: CLEAN PIPE WHICH COULD IMPAIR BOND AS REQUIRED TO ADHERE STEEL TYPE MARKERS SPRAY PAINTED WITH EXTERIOR GLOSS ACRYLIC ENAMEL. UTILIZE LARGEST SIZE POSSIBLE GIVEN THE PIPE OUTSIDE DIAMETER.
 2. INSULATED STORM PIPING: STENCIL TYPE MARKERS WILL NOT BE PERMITTED. ONLY FACTORY MANUFACTURED MARKERS AS FOLLOWS WILL BE ACCEPTABLE:
 - a. FOR INDOOR USE, UTILIZE ADHESIVE PIPE MARKERS - LARGEST SIZE POSSIBLE GIVEN THE PIPE OR INSULATION OUTER DIAMETER, WITH BOTH ENDS SECURED WITH ARROW TAPE OF MATCHING SIZE AND COLOR SCHEME.
 - b. FOR OUTDOOR USE, UTILIZE "STRIP AROUND" TYPE SECURED WITH HEAVY DUTY ZIP TIES.
 3. IDENTIFICATION MARKERS SHALL BE PLACED ON ALL EXPOSED AND CONCEALED PIPES AT 20'-0" INTERVALS, AT ALL VALVES AND BRANCHES, AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING DIRECTION OF FLOW.
 4. COORDINATE COLOR SCHEME WITH EXISTING PIPING AND SUBMIT TO ENGINEER PRIOR TO ORDERING.
- E. VALVES
1. VALVES SHALL BE INSTALLED AS A MEANS OF ISOLATION FOR EACH PIECE OF EQUIPMENT.
 2. INSTALL ALL VALVES WITH STEMS IN EITHER AN UPRIGHT (PREFERRED) OR HORIZONTAL POSITION. OPEN VALVE HANDLE POSITION SHALL BE IN THE DIRECTION OF FLOW.
 3. ISOLATION VALVES SHALL BE MSS SP-61, RATED FOR ZERO LEAKAGE.
 4. BALL VALVES (2-1/2" NPS AND SMALLER)
 - a. MSS SP-110
 - b. 2 PIECE BRASS BODY 600# WOG RATED, FULL PORT
 - c. LEAD-FREE FORGED BRASS BALL
 - d. PTFE SEAT AND PACKING
 - e. LEVER HANDLE
 - f. TEN POSITION LEVER HANDLE
 - g. ACCEPTABLE MANUFACTURERS:
 - APOLLO, LEGEND, MILWAUKEE, NIBCO
 5. BUTTERFLY VALVES (3" NPS AND LARGER)
 - a. MSS SP-67
 - b. LUG TYPE WITH CAST IRON OR DUCTILE IRON BODY
 - c. STAINLESS STEEL SHAFT
 - d. PTFE SEAT/SEALS
 - e. TEN POSITION LEVER HANDLE
 - f. FLANGED ENDS
 - g. ACCEPTABLE MANUFACTURERS:
 - APOLLO, NIBCO, MILWAUKEE

VIII. EPOXY LINING OF DRAINAGE PIPING/FIXTURES

A. PRODUCT

1. DRAIN LINES CALLED OUT TO BE EPOXY LINED SHALL RECEIVE A RESIN-IMPREGNATED FLEXIBLE TUBE THAT WILL EITHER BE INVERTED OR TAPPED INTO THE ORIGINAL PIPELINE AND THEN EXPANDED BY USE OF WATER OR AIR PRESSURE TO FIT TIGHTLY AGAINST THE INNER WALL OF THE PIPE BEING LINED. THE TUBE SHALL THEN BE CURED BY ELEVATING THE TEMPERATURE OF THE WATER OR AIR USED FOR INFLATION.
2. THE RESIN-IMPREGNATED FLEXIBLE TUBE SHALL CONSIST OF MULTIPLE LAYERS OF NEEDED FELT OR AN EQUIVALENT NONWOVEN OR WOVEN MATERIAL CAPABLE OF CARRYING RESIN AND WITHSTANDING THE INSTALLATION PRESSURES AND CURING TEMPERATURES.
3. INSTALLER SHALL BE A LICENSED PLUMBER OR HAVE THREE YEARS EXPERIENCE AND BE ISO CERTIFIED.

IX. SUPPORTS, EXPANSION AND SLEEVES

A. SUPPORTS

1. PROVIDE THE NECESSARY HANGERS AND ACCESSORIES FOR THE PROPER SUPPORT OF PIPING, EQUIPMENT, ETC.
2. ALL NEW HORIZONTAL PIPING SHALL BE SUPPORTED BY STEEL CLEVIS OR TRAPEZE HANGERS OR BRACKETS AT SUPPORT SPACINGS. PROVIDE A STRAIGHT LINE, BUT NOT TO EXCEED 10 FEET SPACING ON CENTERS OF HANGERS IN ANY CASE, WITH A SEPARATE HANGER FOR EACH BRANCH. HANGERS SHALL BE LOCATED TO AVOID UNDUE STRESS ON JOINTS. SUPPORT ALL HUB AND NO HUB PIPING WITHIN 18" OF BOTH SIDES OF EACH JOINT.
3. SPRING TYPE HANGERS SHALL BE INSTALLED ON THE FIRST 20 FEET OF HORIZONTAL PIPING ON BOTH SIDES OF ROTATING EQUIPMENT.
4. WHERE INSULATED PIPE IS SUPPORTED, PROVIDE SADDLES, BLOCKS OR OTHER METHOD APPROVED BY ENGINEER TO PROTECT INSULATION FROM BEING CRUSHED.
5. PIPE SUPPORT SHALL NOT BE FROM DUCTWORK, CONDUIT, OR OTHER PIPING BUT FROM THE PERMANENT BUILDING STRUCTURE.
6. HANGER RODS SHALL BE FULL DIAMETER STEEL WITH THREADED ENDS FOR FIELD CUTTING AND THREAD EXTENDING AS REQUIRED.
7. HANGER RODS SHALL NOT BE BENT OR ALTERED IN ANY MANNER AND SHALL BE INSTALLED PLUMB AND TRUE. THE ROD SUPPORTING THE HANGER SHALL BE NO LONGER THAN 1/2" BELOW THE LOWER MOUNT.
8. PROVIDE ROLLER SUPPORTS TO ALLOW FOR PIPE MOVEMENT WHEREVER THE LENGTH OF PIPE AND/OR THE EXPANSION OF THE PIPE REQUIRE. FIXED PIPE SUPPORTS THAT DO NOT ALLOW FOR THE NATURAL MOVEMENT OF PIPING DUE TO EXPANSION ARE NOT ALLOWED UNLESS OTHERWISE NOTED.
9. VERTICAL PIPE RISERS SHALL BE ANCHORED AND EXPANSION COMPENSATION MEANS SHALL BE PROVIDED PER THE DRAWINGS. ALL VERTICAL PIPE RISERS SHALL BE SUPPORTED AT EACH FLOOR BY 1-1/2" x 1/4" BAR CLOCKS ATTACHED TO PIPES AND RESTING ON THE FLOOR CONSTRUCTION.
10. PIPE EXPANSION
 1. CONTRACTOR TO ACCOUNT FOR THERMAL PIPE EXPANSION AND CONTRACTION TO PREVENT ADVERSE EFFECTS TO PIPING SYSTEM AND BUILDING. THIS INCLUDES ALL CLEARANCES, ANCHORING, GUIDES, PIPE MOVEMENT, ETC.
 2. EFFORT HAS BEEN MADE WITHIN THE CONTRACT DOCUMENTS TO ACCOUNT FOR THERMAL EXPANSION AND CONTRACTION BASED ON THE ENGINEERS LAYOUT OF THE PIPING SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE FINAL LOCATIONS, QUANTITIES & DESIGN OF ALL ANCHORS, GUIDES, SUPPORTS, EXPANSION DEVICES, ETC.
 3. DESIGN & PRODUCT SUBMITTALS - THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE ENGINEER FOR ALL ANCHORS, GUIDES, SUPPORTS, EXPANSION DEVICES, ETC. THESE SUBMITTALS SHALL OUTLINE QUANTITIES, LOCATIONS, ETC. THAT REFLECT FIELD CONDITIONS AND CONTRACTOR'S FINAL LAYOUT OF PIPING EQUIPMENT.

C. PIPE SLEEVES

1. PROVIDE ALL PIPE OPENINGS THROUGH WALLS, PARTITIONS, SLABS, ETC. WITH SLEEVES HAVING AN INTERNAL DIAMETER AT LEAST 1" LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE AND INSULATION. SET SLEEVES IN PLACE BEFORE POURING CONCRETE.
 2. PROVIDE ESCUTCHEONS FITTING OVER THE SLEEVES ON BOTH SIDES OF THE PENETRATION FOR ALL PIPES EXPOSED TO VIEW PASSING THROUGH WALLS, FLOORS, CEILINGS, PARTITIONS, ETC.
- X. ELECTRICAL WORK
- A. ALL ELECTRICAL WORK FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY AN ELECTRICAL CONTRACTOR.
- B. ALL PANEL BOARDS FURNISHED SHALL BE MAIN CIRCUIT BREAKER OR MLO, COPPER BUS WITH BOLT-ON STYLE BREAKERS RATED AT 22KA IAC.
- C. BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH EXISTING PANEL MANUFACTURER REQUIREMENTS.
- D. ALL INDOOR CONDUIT SHALL BE TYPE "EMT" WITH GLAND (COMPRESSION) TYPE CONNECTORS AND COUPLINGS.
- E. ALL OUTDOOR CONDUIT SHALL BE TYPE "IMC" WITH THREADED COUPLINGS OR RIGID METAL CONDUIT.
- F. FINAL CONNECTION TO ALL MOTORS AND MACHINERY SHALL BE VIA A MIN. 5'-0" LENGTH OF FLEXIBLE CONDUIT.
- G.