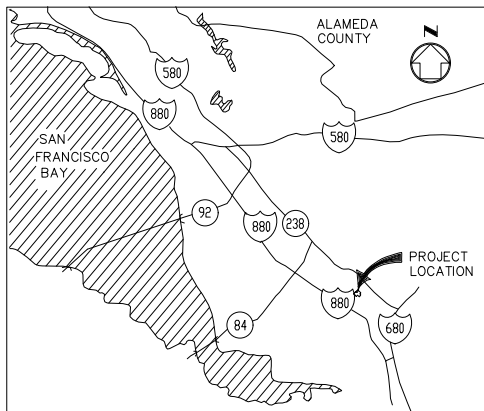


AIR ROUTE TRAFFIC CONTROL CENTER, OAKLAND (ZOA)

# ZOA AUTOMATION WING SEWER LINE REPLACEMENT

5125 CENTRAL AVENUE  
FREMONT, CA 94536

VICINITY MAP



FREMONT, CALIFORNIA

SCOPE OF WORK

THE SCOPE OF WORK (SOW) FOR THE DEMOLITION AND NEW CONSTRUCTION INCLUDES RELINING THE ENTIRE DOMESTIC WASTE LINE IN THE BASEMENT OF THE AUTOMATION BUILDING AND VENT & SEWER PIPE REPLACEMENT AT FIRST FLOOR.

**PLUMBING:** SOW SHALL INCLUDE CAMERA INSPECTION OF THE MAIN SEWER LINE IN THE BASEMENT OF THE AUTOMATION BUILDING, HIGH PRESSURE WATER JET CLEANING, SEWER PIPE LINING BASED ON THE CIPP (CURED IN PLACE PIPE) METHOD; REPLACEMENT OF A SEWER PIPE IN THE CEILING OF BASEMENT AND REPLACEMENT OF A VENT PIPE IN THE CRITICAL EQUIPMENT ROOM/FIRST FLOOR.

**FIRE PROTECTION AND LIFE SAFETY:** SOW SHALL BE TO PROVIDE TEMPORARY EGRESS PATH PROVISIONS DURING REPLACEMENT OF SANITARY SEWER LINES IN THE BASEMENT LEVEL OF STAIR-B.

## DRAWING LIST

### DRAWING NUMBER

### DRAWING TITLE

#### GENERAL

G001  
G002

TITLE SHEET, PROJECT VICINITY AND SHEET INDEX  
CONSTRUCTION STAGING PLAN

#### FIRE PROTECTION

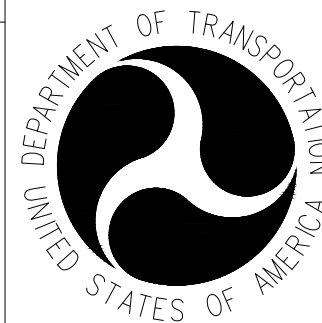
F001

TEMPORARY EGRESS PLAN

#### PLUMBING

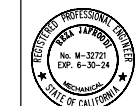
P001  
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P006  
P007

PLUMBING NOTES, LEGEND AND ABBREVIATIONS  
DEMOLITION PLUMBING BASEMENT PLAN  
PLUMBING BASEMENT PLAN  
DEMOLITION PLUMBING FIRST FLOOR PLAN  
PLUMBING FIRST FLOOR PLAN  
PARTIAL DEMOLITION AND PLUMBING PLANS  
DETAILS



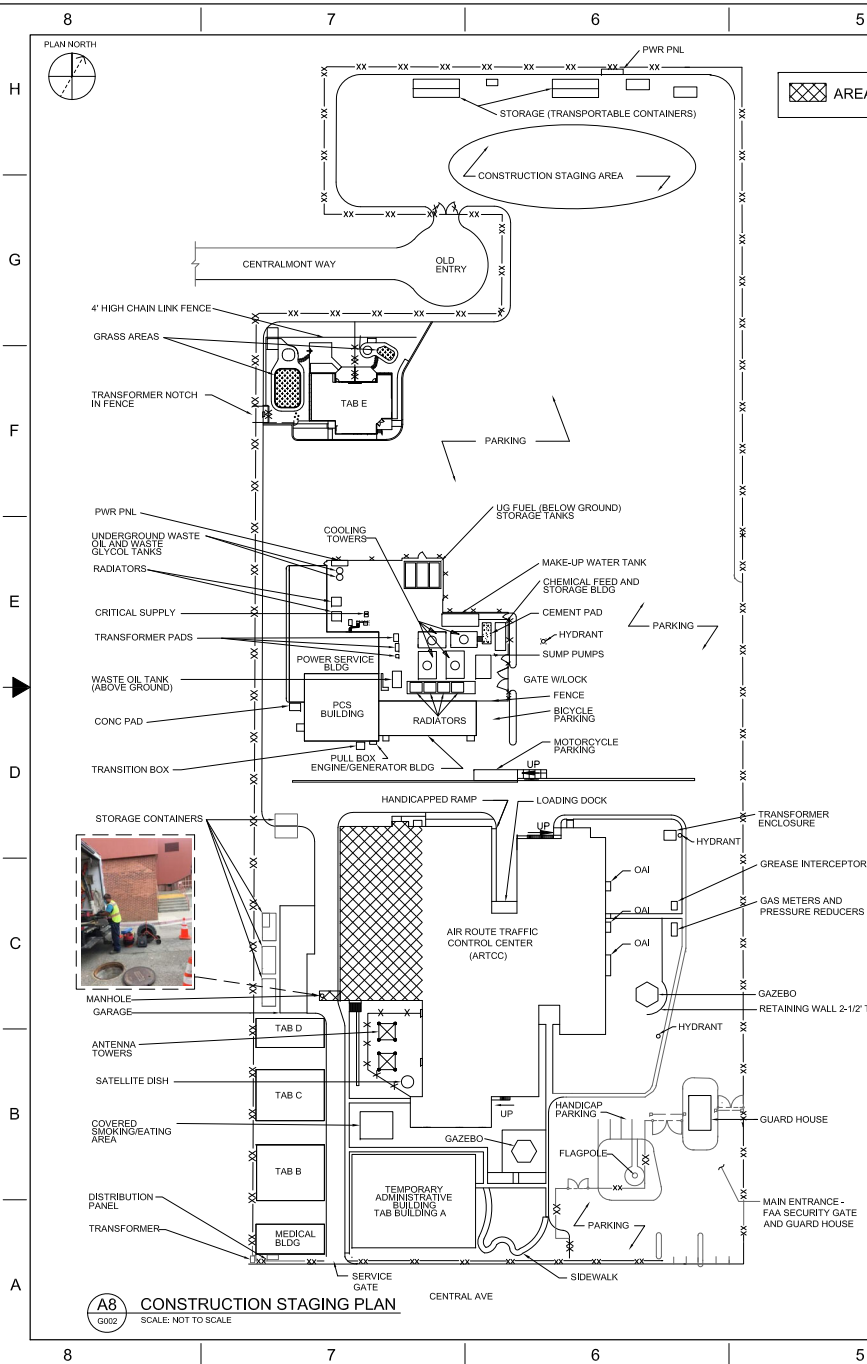
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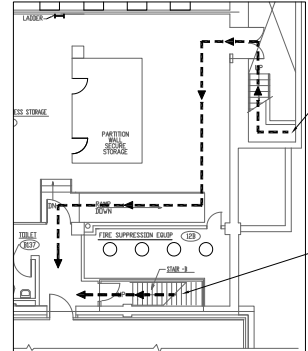
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ARTCC ZOA AUTOMATION WING SEWER PIPE REPLACEMENT TITLE SHEET, PROJECT VICINITY AND SHEET INDEX					
FREMONT		OAKLAND CTR		CA	
REVIEWED BY: CANG TRAN		APPROVED BY: ELYZZA SESON			
PROJECT ENGINEER		MGR. ENGINEERING			
DESIGNED	RJ	ISSUED BY:	DATE	JCN	908480
DRAWN	JA	ENGINEERING SERVICES	EN ROUTE		
CHECKED	RL				
		DRAWING NO	ZOA - 908480 - G001		
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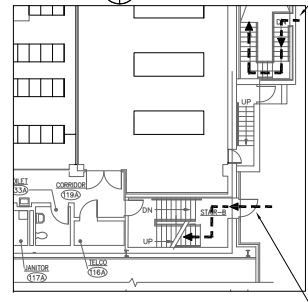
AREA OF WORK

- H. DEMOLITION AND CONSTRUCTION HOURS**
- H.1 SUBCONTRACTOR SHALL NOT INTERFERE WITH AIR TRAFFIC CONTROL FUNCTION OF THIS FACILITY. DEMOLITION AND CONSTRUCTION NOISE SHALL BE MINIMIZED BETWEEN 6:00 AM TO 11:00 PM, OR AS DIRECTED BY COR.
- H.2 ANY CONCRETE SAWING, CORE DRILLING, CONCRETE DEMOLITION AND ANCHOR DRILLING IF NEEDED SHALL BE ALLOWED ONLY AT PREARRANGED TIMES APPROVED BY THE COR. SCHEDULE, COORDINATE AND HAVE APPROVAL BY THE COR IN WRITING A MINIMUM OF 10 WORKING DAYS BEFORE THE PERFORMANCE OF THE WORK.
- J. EQUIPMENT PROTECTION**
- J.1 SUBCONTRACTOR SHALL PROTECT FAA EQUIPMENT, BOTH INSIDE AND OUTSIDE BUILDING, FROM DAMAGE, INCLUDING BUT NOT LIMITED TO, DAMAGE CAUSED BY IMPACT, WATER, DEBRIS AND DUST, INCLUDING CORE DRILLING.
- L. WATER TABLE**
- L.1 THE PIPE LINING PROCESS AND CONSTRUCTION SHALL BE DONE AT THE TIME OF YEAR WHEN THE WATER TABLE IS LOW.

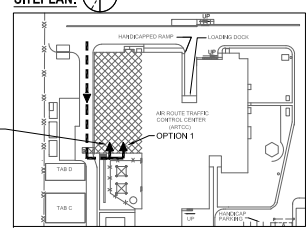
BASEMENT:



FIRST FLOOR:





SITE PLAN:



CONSTRUCTION STAGING PLAN AND SITE NOTES:

- THE FOLLOWING NOTES AND ACCOMPANYING "CONSTRUCTION STAGING PLAN" REPRESENT MANY OF THE MAJOR REQUIREMENTS STATED IN DIVISION 1 - GENERAL REQUIREMENTS OF THE SPECIFICATIONS. THESE NOTES ALSO INCLUDE SITE SPECIFIC REQUIREMENTS THAT SHALL BE FOLLOWED. THESE NOTES PARAPHRASE DIVISION 1 REQUIREMENTS AND ARE NOT INTENDED TO MODIFY OR REPLACE ANY DIVISION 1 REQUIREMENTS.
- CONSTRUCTION ACCESS, PARKING, FIELD OFFICES (IF ANY) AND EXTENT/SIZE OF CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH SITE PERSONNEL VIA COR. PARTICULARLY IN CONJUNCTION WITH ONGOING PROJECTS. LOCATION OF CONSTRUCTION STAGING AREA TO BE DETERMINED AT THE PRECONSTRUCTION CONFERENCE.
- ARTCC IS A 24 HOUR 7 DAY PER WEEK OPERATING FACILITY AND IT IS REQUIRED TO COORDINATE CONSTRUCTION ACTIVITY WITH THE COR TO PREVENT INTERFERENCE WITH ARTCC OPERATIONS.
- A. CONSTRUCTION ACCESS**
- A.1 SUBCONTRACTOR'S VISITORS AND DELIVERIES TO SITE SHALL BE THROUGH THE MAIN ENTRANCE SECURITY GATE. ALTERNATE SITE ACCESS THROUGH SERVICE ENTRANCE GATE SHALL BE DETERMINED AND COORDINATED WITH THE COR.
- A.2 SUBCONTRACTOR SHALL NOT ACCESS BUILDING THROUGH THE MAIN ENTRANCE. COORDINATE WITH COR FOR THE APPROVED CONSTRUCTION ACCESS PATH (OPTION 1 OR 2).
- A.3 USE OF BUILDING'S FREIGHT ELEVATOR AND LOADING DOCK SHALL BE COORDINATED WITH THE COR.
- A.4 SUBCONTRACTOR SHALL KEEP LOADING DOCK AND CAFETERIA ACCESSIBLE AT ALL TIMES FOR FAA DELIVERIES.
- A.5 DELIVERIES SHALL BE SCHEDULED AND APPROVED IN ADVANCE WITH COR AND AT TIMES OTHER THAN FAA EMPLOYEE SHIFT CHANGES TO AVOID CONGESTION. FAA SHIFT CHANGES OCCUR AT: 6:30-8:30 AM AND 2:00-4:00 PM. VERIFY TIME WITH COR. DELIVERY VEHICLES SHALL ONLY CONTAIN ITEMS BEING DELIVERED TO FAA. IF VEHICLE CONTAINS OTHER DELIVERIES, VEHICLE SHALL NOT BE ALLOWED ON SITE.
- A.6 DO NOT BLOCK ACCESS OR EGRESS FROM BUILDING EXITS. COORDINATE WITH COR RISK MITIGATION PLAN IF THE FOLLOWING EXITS WILL BE TEMPORARILY BLOCKED: EMPLOYEE ENTRANCE/EXIT, CAFETERIA ENTRANCE/EXIT, STAIR-4 EXIT, OR AREAWAY.
- A.7 USE OR POSSESSION OF CONTROL SUBSTANCES ARE PROHIBITED ON FEDERAL PROPERTY. PERSON(S) OR VEHICLE(S) IN VIOLATION WILL BE DENIED ENTRY. NO EXCEPTIONS.
- B. SUBCONTRACTOR PARKING**
- B.1 SUBCONTRACTOR'S PARKING SHALL BE LIMITED TO CONSTRUCTION STAGING AREA AND AS NOTED. ADDITIONAL PARKING SHALL BE OFF-SITE AND PROVIDED BY THE SUBCONTRACTOR. EXISTING PARKING SPACES AT ARTCC ARE OFF-LIMITS FOR SUBCONTRACTOR PARKING.
- C. FAA SECURITY REQUIREMENTS**
- C.1 AFTER AWARD THE SUBCONTRACTOR SHALL PROVIDE THE CONTRACTING OFFICER WITH A LIST OF SUBCONTRACTOR PERSONNEL WHO SHALL REQUEST FAA IDENTIFICATION MEDIA BADGE. SUBCONTRACTOR PERSONNEL SHALL BE SUBJECT TO A SECURITY INVESTIGATION BY THE FAA AND SHALL OBTAIN FAA IDENTIFICATION MEDIA BADGE PRIOR TO START OF ON-SITE WORK. REFER TO THE SPECIFICATIONS FOR FURTHER DIRECTION.
- C.2 THE SITE IS A SECURE AREA. ACCESS FOR ALL CONSTRUCTION PERSONNEL IS LIMITED TO THE CONSTRUCTION AREA AND DESIGNATED ACCESS ROUTES AT ALL TIMES. ALL PERSONS ON SITE ARE REQUIRED BADGED OR ESCORTED AT ALL TIMES.
- C.3 SUBCONTRACTOR SHALL USE GREAT CARE AND CAUTION WHILE WORKING IN ALL AREAS OF THIS FACILITY. WORK SHALL BE COORDINATED WITH THE COR. DISRUPTION OF THIS FACILITY SHALL NOT BE PERMITTED.
- C.4 EXISTING FAA AIR TRAFFIC EQUIPMENT SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF THIS CONTRACT. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS PROTECTION OF FAA EQUIPMENT FROM PHYSICAL OR ELECTRICAL DAMAGE AS A RESULT OF INCIDENTAL OR ACCIDENTAL NEGLIGENCE. SUBCONTRACTOR SHALL NOTIFY COR IMMEDIATELY OF DAMAGE OR DISRUPTION OF ANY FAA EQUIPMENT. REPAIRS AND RESTORATIONS OF ANY DAMAGE CAUSED BY THE SUBCONTRACTOR ARE AT NO COST TO THE GOVERNMENT.
- D. CONSTRUCTION MATERIAL STORAGE**
- D.1 THE CONSTRUCTION STAGING AREA'S EXACT SIZE AND LOCATION SHALL BE DETERMINED AT THE PRECONSTRUCTION CONFERENCE BY THE FAA.
- E. CONSTRUCTION DEBRIS**
- E.1 ENCLOSED DUMPSTERS FOR DISPOSAL OF CONSTRUCTION DEBRIS SHALL BE PROVIDED BY SUBCONTRACTOR WITHIN THE CONSTRUCTION STAGING AREA. COORDINATE LOCATIONS WITH COR. AREAS AROUND DUMPSTERS SHALL BE KEPT CLEAN AND FREE OF EXCESS DEBRIS AND DUST DURING CONSTRUCTION. DEBRIS SHALL BE REMOVED BY SUBCONTRACTOR DAILY.
- E.2 SUBCONTRACTOR SHALL NOT USE FAA DUMPSTERS. SUBCONTRACTOR'S DUMPSTERS LOCATIONS SHALL BE COORDINATED WITH THE COR.
- F. CONSTRUCTION TOILET FACILITIES**
- F.1 SUBCONTRACTOR MAY USE TOILETS INSIDE THE WORK AREA PROVIDED THAT IT IS KEPT IN A NEAT AND CLEAN MANNER. SUBCONTRACTOR SHALL COORDINATE WITH COR FOR THE LOCATION OF TOILETS PERMITTED FOR USE. USE OF THE FAA TOILET FACILITIES IS A PRIVILEGE AND CAN BE REVOKED BY THE COR AT ANY TIME.

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		ATO - TECHNICAL OPERATIONS      WESTERN SERVICE AREA/SERVICE AREA						
		ARTCC ZOA AUTOMATION WING SEWER PIPE REPLACEMENT CONSTRUCTION STAGING PLAN						
		FREMONT      OAKLAND CTR      CA						
SUBMITTED BY <b>CANG TRAN</b>		REVIEWED BY		APPROVED BY <b>ELYZZA SESON</b>				
PROJECT ENGINEER		DESIGNED <b>RJ</b>		ISSUED BY <b>JA</b>		DATE 08/19/2022		JCN
DRAWN <b>RL</b>		CHECKED <b>RL</b>		ENGINEERING SERVICES EN ROUTE		DRAWING NO. ZOA - 908480 - G002		REV
RELEASED FOR CONSTRUCTION 08/19/2022								

A8 G002 CONSTRUCTION STAGING PLAN SCALE: NOT TO SCALE

A5 G002 CONTRACTOR ACCESS PATH TO WORK AREA SCALE: NOT TO SCALE















































































































































































































































## PLUMBING LEGEND

## PLUMBING GENERAL NOTES



- MANUFACTURER'S MATERIAL OR EQUIPMENT LISTED IN SCHEDULES OR ON DRAWINGS ARE PROVIDED FOR ESTABLISHMENT OF SIZE, CAPACITY, GRADE, AND QUALITY. IT IS ACCEPTED THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGE IN CONSTRUCTION REQUIRED BY THEIR USE. SUCH SHALL BE BORNE BY SUBCONTRACTOR.
3. WORK SHALL COMPLY WITH RULES AND REGULATIONS OF LOCAL UTILITY COMPANIES. CONTRACTOR SHALL PROVIDE ALL VALVES, BOLTS, METERS, BOLTS, METERS, ACCESSORY EQUIPMENT REQUIRED FOR PROJECT.
4. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO RESULT IN A COMPLETE PLUMBING INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY INDICATE ANY PRECISE PRIOR OR EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DISCREPANCY OR NOTED ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE INSTALLATION IN ACCORDANCE WITH THE SPECIFICATIONS.
5. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WHATEVER IS CALLED FOR IN EITHER IS BINDING AS THOUGH CALLED FOR IN BOTH. IF THERE IS A CONFLICT IN THE CONTRACT DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENT AND COSTLY DESIGN SHALL BE THE BASIS FOR BIDDER. THE SUB CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACT FOLLOWS IN THE CONTRACT DOCUMENTS TO THE ARCHITECT ENGINEER FOR RESOLUTION.
6. DRAWINGS SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR USED AS SHOP DRAWINGS. SHOP DRAWINGS ARE REQUIRED FOR THESE PURPOSES OR HAVE TO BE MADE FROM FIELD MEASUREMENTS. TAKE THE NECESSARY MEASUREMENTS AND PREPARE THE DRAWINGS.
7. BEFORE ANY WORK IS INSTALLED, DETERMINE THAT EQUIPMENT SHALL PROPERLY FIT THE SPACE. THAT REQUIRED CLEARANCES CAN BE MAINTAINED AND THAT EQUIPMENT CAN BE LOCATED WITHOUT INTERFERENCE BETWEEN SYSTEMS, WITH STRUCTURAL ELEMENTS, OR WITH THE WORK OF OTHER TRADES.
8. IF CONFLICTS ARE DISCOVERED IN CONTRACT DOCUMENTS, SUBMIT A SET OF WORKSHEET MARKED WITH RED PENCIL SHOWING RECOMMENDED MODIFICATIONS TO THE ARCHITECT ENGINEER FOR APPROVAL PRIOR TO ANY INSTALLATION.
9. SUB CONTRACTOR SHALL COORDINATE ROUGH-IN REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN. ENSURE ALL EQUIPMENT CONNECTIONS ARE PROVIDED FOR AND THAT THE INSTALLATION SHALL MEET ALL LOCAL AND NATIONAL CODE REQUIREMENTS.
10. ALLOWANCE AND PAY FOR ALL PERMITS, LICENSES, CERTIFICATIONS, AND FEES REQUIRED IN CONNECTION WITH WORK.
11. SUBMITTALS SHALL INCLUDE CATALOG CUT-SHEETS AND MANUFACTURER'S DATA SHEETS.
12. PRIOR TO ORDERING EQUIPMENT OR BEGINNING INSTALLATION, ASSEMBLE, PREPARE, AND FURNISH SUBMITTALS AND SHOP DRAWINGS REQUIRED FOR PROJECT. FURNISH SUBMITTALS AND SHOP DRAWINGS TO THE ARCHITECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT OR BEGINNING INSTALLATION.
13. SUB CONTRACTOR SHALL THOROUGHLY CHECK VENDORS' SUBMITTALS AND SHOP DRAWINGS AND, AFTER APPROVING THEM, SUBMIT THEM FOR REVIEW. SUBMITTALS AND SHOP DRAWINGS THAT DO NOT BEAR SUB CONTRACTOR'S REVIEW STAMP SHALL BE RETURNED TO REVIEWER FOR RE-REVIEW.
14. IF DISCREPANCIES BETWEEN SUBMITTALS, SHOP DRAWINGS, AND CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SUBMITTALS AND SHOP DRAWINGS ARE REVIEWED, REVISIONS TO THE SUBMITTALS, SHOP DRAWINGS, AND CONTRACT DOCUMENTS SHALL BE RETURNED TO REVIEWER FOR RE-REVIEW.
15. KEEP RECORDS DURING REVIEW PERIOD OF COMMENTS AND ANY CURRENT SET OF REVISIONS INDICATING CHANGES THAT HAVE BEEN MADE TO THE CONTRACT DOCUMENTS.
16. UPON COMPLETION OF WORK, SUBMIT THE COMPLETE SET OF RECORD DOCUMENTS TO THE ARCHITECT.
17. PROTECT MATERIALS AND EQUIPMENT FROM PHYSICAL DAMAGE, CONSTRUCTION DIRT, AND THE ELEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLATIONS ACCEPTED BY OWNER.
18. GUARANTEE MATERIALS, WORKMANSHIP, AND OPERATION OF EQUIPMENT INSTALLED FOR PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF ENTIRE WORK. REPAIR OR REPLACE ANY PART OF WORK WHICH SHOWS DEFECT DURING THAT TIME.
19. SUB CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PROPERTY OF OWNER OR TO WORK OF OTHER SUB CONTRACTORS CAUSED BY HIS WORK OR EQUIPMENT DURING REVIEW PERIOD.
20. FURNISH EQUIPMENT WORKMANSHIP TO OWNER.
21. DO NOT COVER UP OR ENCLOSE WORK UNTIL INSPECTED, TESTED, AND APPROVED. ANY WORK ENCLOSED OR COVERED UP BEFORE SUCH APPROVAL SHALL BE UNCOVERED, TESTED, AND APPROVED.
22. COORDINATE RESTROOM CLOSURES, HVAC EQUIPMENT CONDENSATE ROUTING AND PROJECT PHASES WITH OTHER TRADES.
23. PROVIDE TEMPORARY EXHAUST MAKE UP AIR IN AREAS OF WORK TO PREVENT THE SPREAD OF OBNOXIOUS ODORS/FUMES. THIS INCLUDES BUT IS NOT LIMITED TO SAW CUTTING, DRILLING, PIPE REMOVAL AND DUST DISTURBANCE.
24. APPEARANCE OF WORK SHALL BE OF EQUAL IMPORTANCE TO ITS MECHANICAL OPERATION. LACK OF QUALITY WORKMANSHIP SHALL BE REASON FOR REJECTION OF SYSTEM IN PART OR IN WHOLE.
25. INSTALL SO THAT ALL VALVES AND EQUIPMENT CAN BE EASILY ACCESSIBLE AND SERVICED BY ADEQUATE CLEARANCE, INSTALLATION OF ACCESS DOORS, UNIONS IN PIPING, OR OTHER

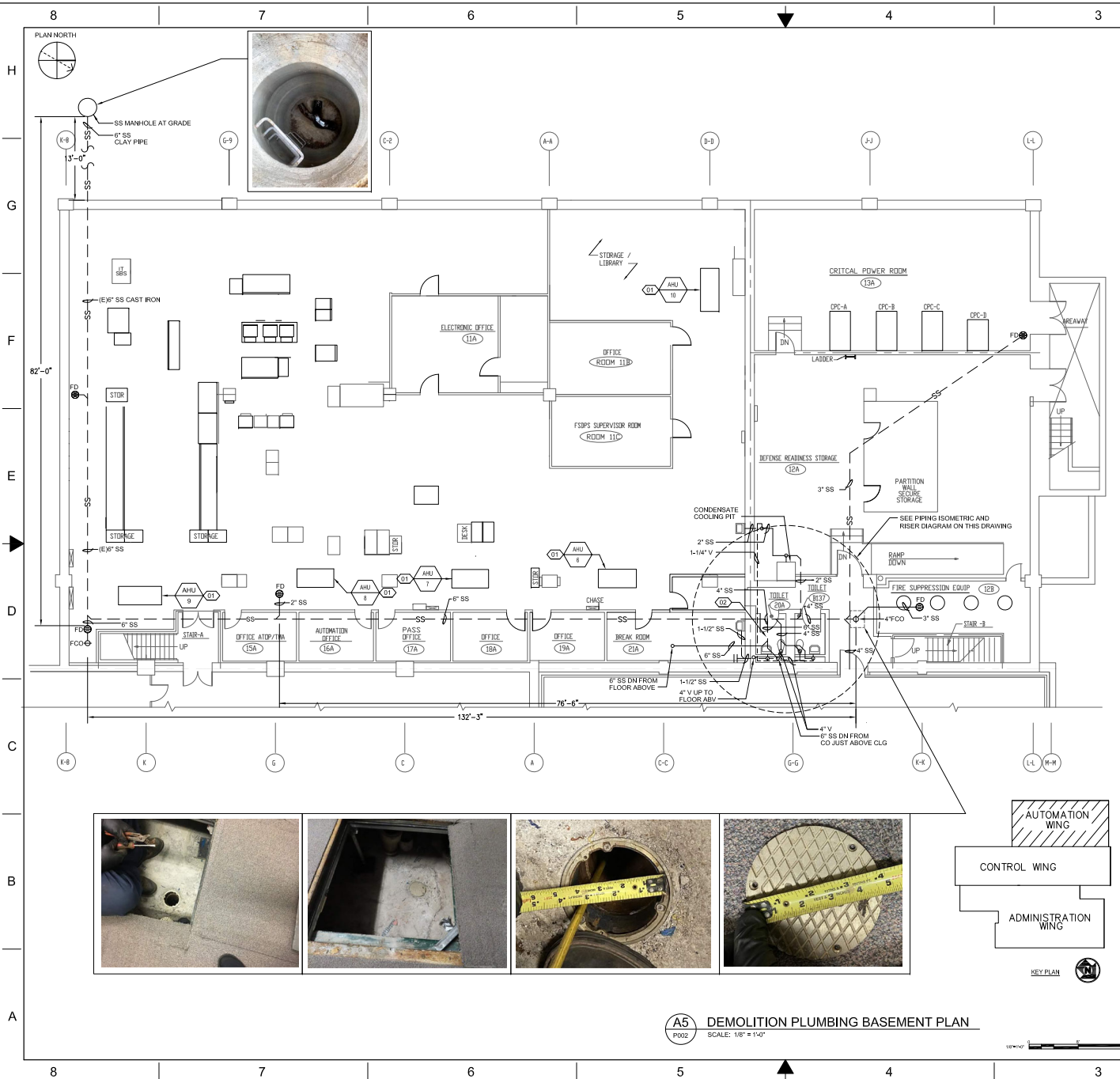
NOT ALL ITEMS LISTED BELOW ARE USED ON THIS SET OF PLUMBING DRAWINGS

PLUMBING PIPING			PIPING SYMBOLS	
SYMBOL	ABBV	DESCRIPTION	SYMBOL	DESCRIPTION
	CW	DOMESTIC COLD WATER		WALL HYDRANT
	HW	DOMESTIC HOT WATER		HOSE BIBB
	HWC	DOMESTIC HOT WATER CIRCULATION		BALL VALVE
	T	TEMPERED WATER		CALIBRATED BALANCING VALVE
	TR	TEMPERED WATER CIRCULATION		GATE VALVE
	SS	SOIL OR WASTE (ABOVEGROUND/CEILING)		CHECK VALVE
	SS	SOIL OR WASTE (UNDERGROUND/CEILING)		SOLENOID VALVE
	GW	GREASE WASTE		PRESSURE REDUCING VALVE
	SOD	SEDIMENT & OIL DRAIN		PLUG VALVE
	FM	FORCE MAIN DRAINAGE		PUMP
	D	DRAIN		ATMOSPHERIC VACUUM BREAKER
	V	SANITARY VENT		STRAINER
	GV	GREASE VENT		RELIEF VALVE
	SD	STORM DRAIN		DOWNSPOUT NOZZLE
	OD	OVERFLOW STORM DRAIN		WATER HAMMER ARRESTER
	F	FIRE SPRINKLER		UNION
	FDC	FIRE DEPT. CONNECTION		REDUCER
	G	NATURAL GAS LOW PRESSURE		WATER METER
	MPG	NATURAL GAS MEDIUM PRESSURE		GAS METER
	LPG	PROPANE GAS		PRESSURE GAUGE
	CD	CONDENSATE DRAIN		THERMOMETER
PLUMBING PIPING SYMBOLS				FLOOR SINK
SYMBOL	DESCRIPTION			AREA/FLOOR DRAIN
	ARROW IN LINE INDICATES DIRECTION OF FLOW			ROOF DRAIN OR OVERFLOW DRAIN
	INDICATES PIPE SLOPE DOWN			WALL CLEANOUT AND LINE CLEANOUT
	REMOVE EXISTING			FLOOR CLEANOUT CONNECT
	BOTTOM PIPE CONNECTION			NEW TO EXISTING
	PIPING UP			DISCONNECTION DEMO POINT
	PIPING DOWN			
	FIXTURE TRAP OR DRAIN TRAP			
	PIPING CAP OR PLUG			
	BALL VALVE IN VERTICAL PIPE DROP			
	GATE VALVE IN VERTICAL PIPE DROP			
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				

36. FIELD VERIFY EXISTING EQUIPMENT AND PIPING SIZES PRIOR TO START OF WORK. COORDINATE INSTALLATION WITH LOCATION OF EXISTING PIPING, DUCTWORK, CONDUITS, STRUCTURE AND OTHER EXISTING EQUIPMENT.
37. PROVIDE FIRE RATED SEALANT AT PIPE PENETRATIONS AND ABANDONED HOLES THROUGH FIRE RATED ASSEMBLIES. RATING OF SEALANT MUST BE EQUAL TO OR EXCEEDS THE RATING OF THE RATED ASSEMBLY. INSTALL THE SEALANT PER THE SEALANT MANUFACTURERS INSTALLATION INSTRUCTION UNLESS TO THE FIRE RATED ASSEMBLY TYPE.
38. FACILITY CONTAINS HAZARDOUS MATERIALS. SUBCONTRACTORS SHALL ENSURE WORKERS ARE PROTECTED FROM POTENTIAL HAZARDOUS LIQUIDS/SOLIDS/ORGANICS THAT MAY EXIST IN THE FACILITY. IDENTIFY AND CONTROL POTENTIAL HAZARDOUS MATERIALS ARE ENCOUNTERED DURING WORK. NOTIFY THE COR IMMEDIATELY.
39. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED; PIPE SIZES SHOWN

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		REVISED BY		SUBMITTED BY CANG TRAN						ELYZZA SASON					
				PROJECT ENGINEER DESIGNED BY DRAWN BY CHECKED BY						MGR. ENGINEERING DATE 08/19/2022 JCN 908480 DRAWING NO 908480 - P001					
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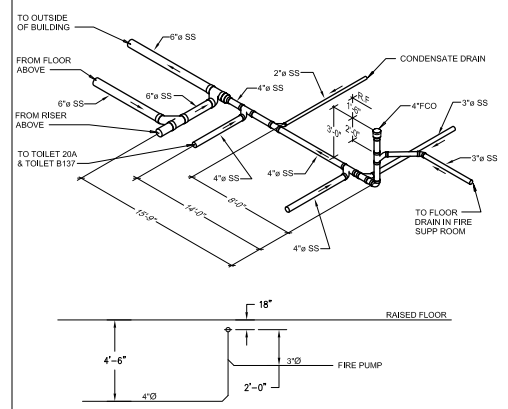


KEY NOTES


- 01 CONDENSATE LINES OF THE EXISTING AC UNIT SHALL BE TEMPORARY MODIFIED TO CAPTURE CONDENSATE DURING CONSTRUCTION. FIELD VERIFY ALL CONDENSATE LINES IN THE AUTOMATION WING THAT ARE SERVED BY THE MAIN WASTE LINE. CAPTURED CONDENSATE WILL NEED TO BE CHECKED/DUMPED ON A PERIODIC SCHEDULE TO PREVENT OVERFLOW, SPILLS AND LEAKS.
- 02 PLUMBING FIXTURE AT THE LOCATION SHOWN ON THE BASEMENT FIRST AND SECOND FLOOR TO BE SHUTDOWN DURING CONSTRUCTION. THE SUBCONTRACTOR SHALL POST SIGNAGE AND DIRECT THE BUILDING OCCUPANTS TO THE NEAREST FUNCTIONAL RESTROOM. FIELD VERIFY ALL FIXTURES SERVED BY THE MAIN WASTE LINE ARE SHUTDOWN. NOT ALL FIXTURES MAY BE SHOWN. THE ISOLATION VALVES FOR THE DOMESTIC WATER ARE LOCATED IN THE CEILING SPACE ABOVE OFFICE 11A. COR TO VERIFY VALVE LOCATION WITH THE BUILDING MAINTENANCE. ALL WORK ON THE MAIN WASTE LINE TO OCCUR DURING TIMES MOST CONVENIENT TO THE SITE, WHICH INCLUDES NIGHT AND WEEKEND WORK.

- GENERAL NOTES:
1. REFER TO P001 FOR PLUMBING NOTES, LEGEND AND ABBREVIATIONS.
- DEMOLITION NOTES:
- A. THIS DRAWING IS TO BE USED FOR SCHEMATIC PURPOSES ONLY. ACTUAL DEMOLITION WORK MAY VARY BASED ON EXISTING CONDITIONS. VERIFY LOCATIONS, SIZES AND DIMENSIONS AFFECTING WORK.
  - B. ALL AREAS OF WORK TO BE ISOLATED TO MINIMIZE THE SPREAD OF DUST, ODORS AND REDUCTION OF CONSTRUCTION NOISE. PROVIDE WORKSPACE CONTAINMENT PLAN TO COR FOR REVIEW AND APPROVAL. CONTAINMENT AREAS TO BE PROVIDED WITH TEMPORARY EXHAUST AND MAKE UP AIR. PROVIDE AIR DISTRIBUTION SUBMITTAL TO COR FOR REVIEW AND APPROVAL BEFORE STARTING THE DEMOLITION PROCESS.
- FIRE RESISTANCE RATINGS:
- 1-HOUR FIRE RATED PARTITION
  - 2-HOUR FIRE RATED PARTITION

PLUMBING ISOMETRIC AND RISER DIAGRAM:

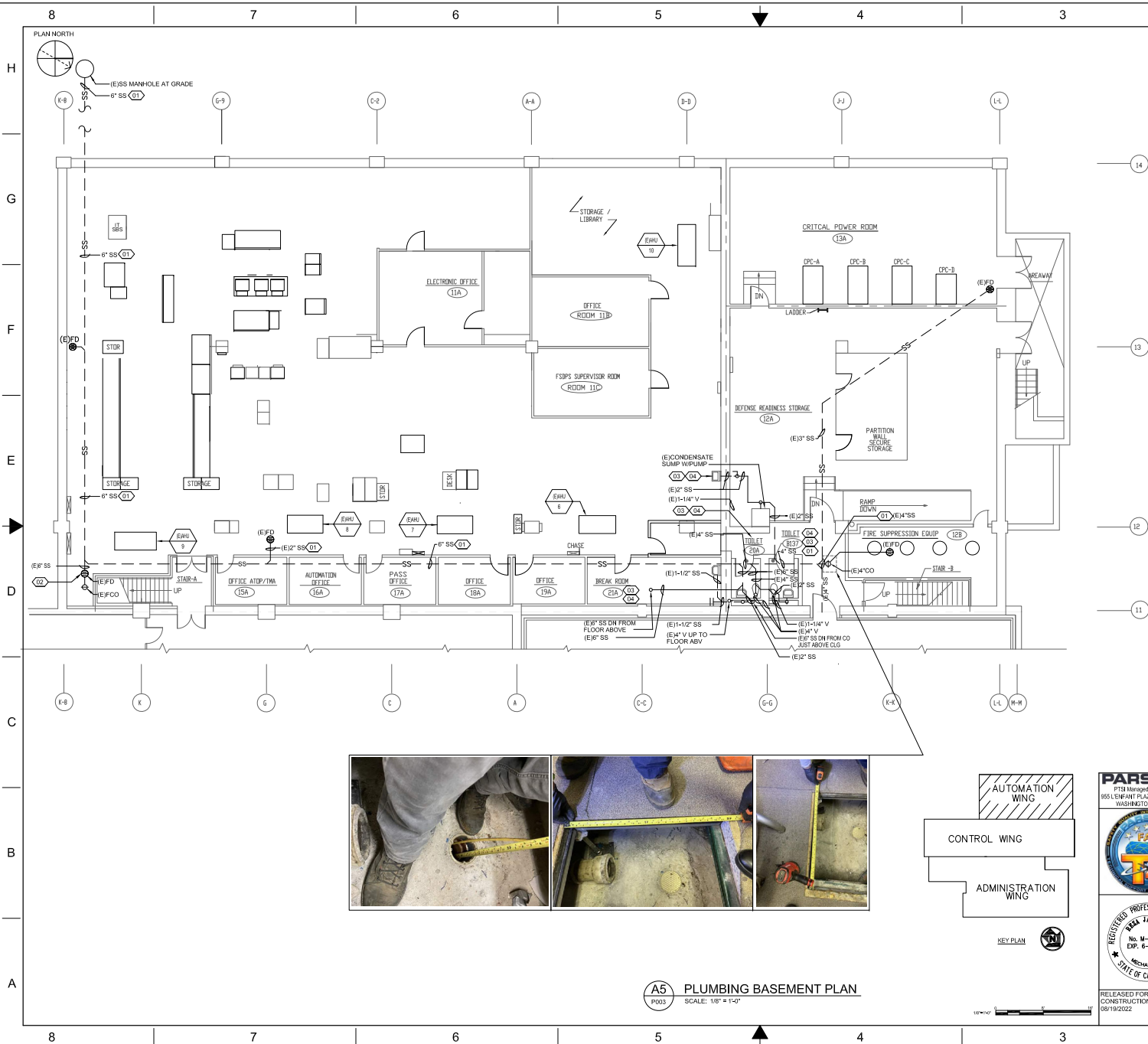


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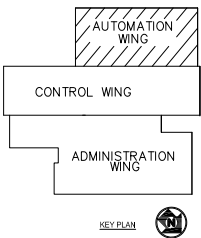
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		ARTCC ZOA AUTOMATION WING SEWER PIPE REPLACEMENT DEMOLITION PLUMBING BASEMENT PLAN						
FREMONT		SUBMITTED BY <b>CANG TRAN</b>		APPROVED BY <b>ELYZZA SESON</b>		OAKLAND CTR		CA
PROJECT ENGINEER		DESIGNED <b>RJ</b>		ISSUED BY <b>JA</b>		DATE 08/19/2022		JCN 908480
CHECKED <b>RL</b>		ENGINEERING SERVICES EN ROUTE		DATE 08/19/2022		REV		REV
RELEASED FOR CONSTRUCTION 08/19/2022		DRAWING NO <b>ZOA-908480-P002</b>		DATE 08/19/2022		JCN 908480		REV

A5 DEMOLITION PLUMBING BASEMENT PLAN  
P002 SCALE: 1/8" = 1'-0"





A5 PLUMBING BASEMENT PLAN  
P003 SCALE: 1/8" = 1'-0"



- ### KEY NOTES
- 01 PROVIDE CIPP (CURED IN PLACE LINING) FOR THE MAIN SEWER PIPE FROM MANHOLE TO THE FLOOR CLEANOUT LOCATED IN THE CORRIDOR NEXT TO THE FIRE SUPPRESSION EQUIPMENT ROOM, PROVIDE THE FOLLOWING:
    - A. INSPECT THE PIPE USING A SEWER CAMERA FOR ANY POSSIBLE LEAK OR DAMAGE. MEASURE THE PIPE AND MARK THE LOCATION OF BRANCHES.
    - B. CLEAN THE PIPE BY HYDRO-JET PRESSURIZED WATER.
    - C. RE-INSPECT THE SEWER PIPE BY CAMERA TO INSURE ALL DEBRIS HAS BEEN SUFFICIENTLY CLEARED.
    - D. IMPREGNATE THE LINER WITH POLYESTER, VINYL ESTER OR EPOXY RESIN.
    - E. INSERT RESIN-IMPREGNATED LINER AND A BLADDER ON THE INSIDE OF THE LINER INTO THE MAIN SEWER PIPE.
    - F. INFLATE THE BLADDER TO ADHERE THE RESIN-SATURATED LINER TO THE INNER WALLS OF THE SEWER PIPE.
    - G. REMOVE BLADDER AND PROVIDE THERMAL CURING OR UV LIGHT RADIATION CURING.
    - H. USE TWO LINING ROUTES: ONE FROM MANHOLE TO THE 90 DEG ELBOW (80 FT) AND ONE FROM CLEANOUT TO THE 90 DEG ELBOW (180 FT). IF A CONTINUOUS LINING CAN BE PROVIDED FROM MANHOLE TO THE CLEANOUT, IT WILL BE PREFERRED.
    - I. USE ROBOTIC TOOLS TO CUT THE LINER IN THE LOCATION OF BRANCHES.
    - J. RE-INSPECT THE SEWER PIPE BY CAMERA.
  - 02 THE FLOOR CLEAN OUT AT THE LOCATION SHOWN SHALL NOT BE USED FOR SEWER PIPE ACCESS DUE TO CRITICAL EQUIPMENT WIRING AT THAT LOCATION.
  - 03 DURING THE LINING PROCESS, THE WATER TO THE PLUMBING FIXTURES CONNECTED TO THE SEWER PIPE SHALL BE SHUT DOWN, INCLUDING THE MEN'S AND WOMEN'S TOILET IN THE BASEMENT.
  - 04 AT THE END OF CONSTRUCTION, PLUMBING FIXTURES TO BE BROUGHT BACK INTO SERVICE.

**GENERAL NOTES:**  
1. REFER TO P001 FOR PLUMBING NOTES, LEGEND AND ABBREVIATIONS.

**FIRE RESISTANCE RATINGS:**  
----- 1-HOUR FIRE RATED PARTITION  
----- 2-HOUR FIRE RATED PARTITION

PLUMBING PIPE AND FITTING MATERIALS		
MARK	DESCRIPTION	PIPE MATERIAL
W	WASTE	CAST IRON WITH NO HUB FITTINGS OR PVC
V	VENT	CAST IRON WITH NO HUB FITTINGS OR PVC
CD	CONDENSATE DRAIN	COPPER TYPE "M"

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

**PARSONS**  
PTM Managed Services Inc.  
955 L ENHART PLAZA SW SUITE 6100  
WASHINGTON, DC 20024

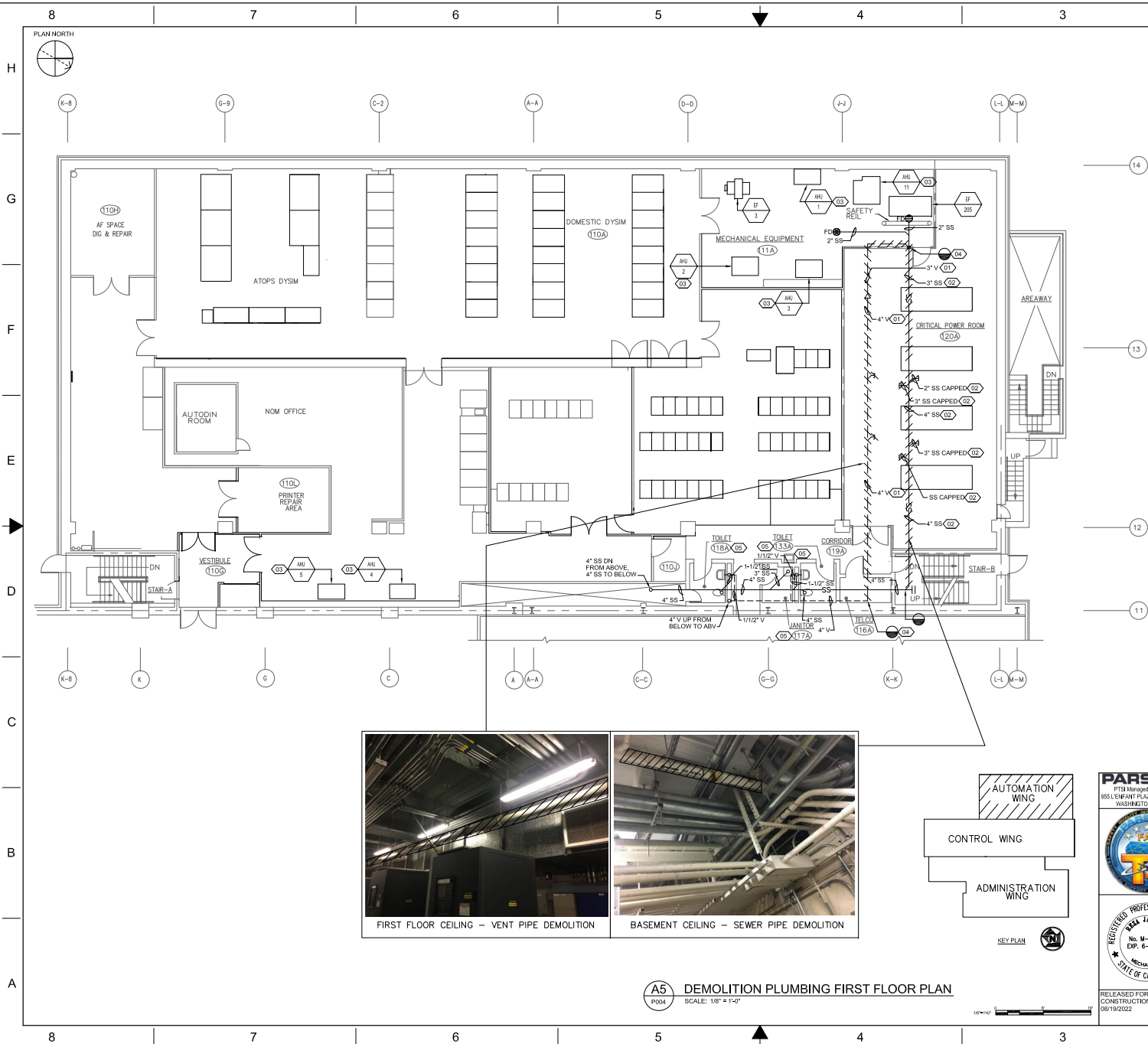
**FAA**  
T4

**REGISTERED PROFESSIONAL ENGINEER**  
No. M-32721  
EXP. 6-30-24  
MECHANICAL  
STATE OF CALIFORNIA

RELEASED FOR CONSTRUCTION  
08/19/2022

REV	APPROVED DATE	DESCRIPTION	JCN	RESUME DATE	NPID
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
ATO - TECHNICAL OPERATIONS					
WESTERN SERVICE AREA/SERVICE AREA					
ARTCC					
ZOA AUTOMATION WING SEWER PIPE REPLACEMENT					
PLUMBING BASEMENT PLAN					
FREMONT			OAKLAND CTR		
REVIEWED BY: CANG TRAN			APPROVED BY: ELYZZA SESON		
PROJECT ENGINEER			MGR: ENGINEERING		
DESIGNED RJ			DATE 08/19/2022		
DRAWN JA			JCN 908480		
CHECKED RL			ENGINEERING SERVICES EN ROUTE		
			DRAWING NO ZOA-908480-P003		
			REV		

ISSUED FOR: CONSTRUCTION

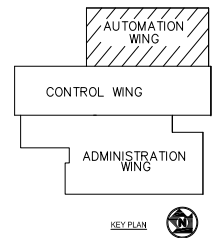


- ### KEY NOTES
- 01 EXISTING VENT LINE LOCATED AT THE CEILING TO BE REPLACED. DISCONNECT VENT LINE AT POD AND PREPARE VENT LINE FOR RECONNECTION.
  - 02 DOMESTIC WASTE LINE LOCATED AT THE CEILING OF THE BASEMENT TO BE REPLACED. DISCONNECT WASTE LINE AT POD AND PREPARE WASTE LINE FOR RECONNECTION.
  - 03 CONDENSATE LINES WILL NEED TO BE TEMPORARY MODIFIED TO CAPTURE CONDENSATE DURING CONSTRUCTION. FIELD VERIFY ALL CONDENSATE LINES IN THE AUTOMATION WING THAT ARE BEING SERVED BY THE MAIN WASTE LINE. CAPTURED CONDENSATE WILL NEED TO BE CHECKED/DUMPED ON A PERIODIC SCHEDULE TO PREVENT OVERFLOW, SPILLS AND LEAKS.
  - 04 VENT LINE RUNS UP THROUGH FIRE RATED WALL. DO NOT DEMO MORE WALL THAN IS NECESSARY WHILE REPLACING VENT LINE.
  - 05 PLUMBING FIXTURE TO BE SHUTDOWN DURING CONSTRUCTION. FIELD VERIFY ALL FIXTURES SERVED BY THE MAIN WASTE LINE ARE SHUTDOWN. NOT ALL FIXTURES MAY BE SHOWN.



**GENERAL NOTES:**  
1. REFER TO P001 FOR PLUMBING NOTES, LEGEND AND ABBREVIATIONS.

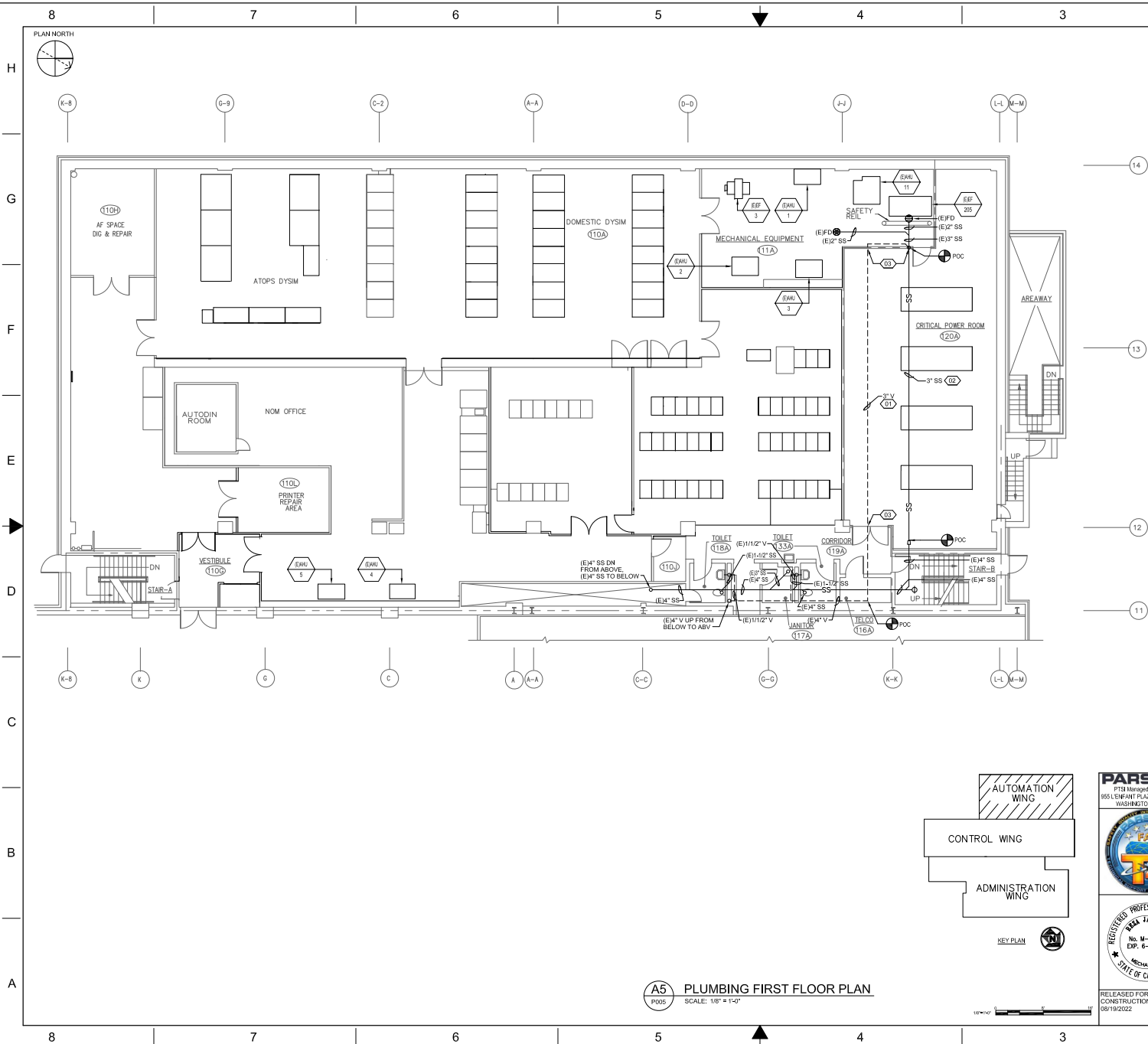
**DEMOLITION NOTES:**  
A. THIS DRAWING IS TO BE USED FOR SCHEMATIC PURPOSES ONLY. ACTUAL DEMOLITION WORK MAY VARY BASED ON EXISTING CONDITIONS. VERIFY LOCATIONS, SIZES AND DIMENSIONS AFFECTING WORK.  
B. ALL AREAS OF WORK TO BE ISOLATED TO MINIMIZE THE SPREAD OF DUST, ODORS AND REDUCTION OF CONSTRUCTION NOISE. PROVIDE WORKSPACE CONTAINMENT PLAN TO COR FOR REVIEW AND APPROVAL. CONTAINMENT AREAS TO BE PROVIDED WITH TEMPORARY EXHAUST AND MAKE UP AIR. PROVIDE AIR DISTRIBUTION SUBMITTAL TO COR FOR REVIEW AND APPROVAL BEFORE STARTING THE DEMOLITION PROCESS.

**FIRE RESISTANCE RATINGS:**  
----- 1-HOUR FIRE RATED PARTITION  
----- 2-HOUR FIRE RATED PARTITION



**A5 DEMOLITION PLUMBING FIRST FLOOR PLAN**  
P004 SCALE: 1/8" = 1'-0"

<b>PARSONS</b> PTM Managed Services Inc. 955 L ENHANT PLAZA SW SUITE 6100 WASHINGTON, DC 20024					
					
					
FOR OFFICIAL USE ONLY PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552					
REV	APPROVED DATE	DESCRIPTION	JCN	RESUME DATE	NPID
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA/SERVICE AREA					
ARTCC ZOA AUTOMATION WING SEWER PIPE REPLACEMENT DEMOLITION PLUMBING FIRST FLOOR PLAN					
FREMONT		OAKLAND CTR		CA	
SUBMITTED BY <b>CANG TRAN</b>		APPROVED BY <b>ELYZZA SESON</b>			
PROJECT ENGINEER		DESIGNED RJ		ISSUED BY ENGINEERING SERVICES EN ROUTE	
DRAWN JA		CHECKED RL		DATE 08/19/2022	
RELEASED FOR CONSTRUCTION 08/19/2022		JCN		908480	
				DRAWING NO <b>ZOA-908480-P004</b>	
				REV	



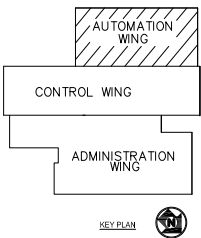
KEY NOTES

- 01 REPLACE (E) CAST IRON PIPE WITH PVC VENT PIPE. PROVIDE HANGERS AND SUPPORT FOR NEWLY INSTALLED PIPE. PROVIDE DRIP PAN & LEAK DETECTION SENSOR FOR ALL PIPES/FITTINGS LOCATION ABOVE THE CRITICAL EQUIPMENT.
- 02 REPLACE CAST IRON WASTE LINE. PROVIDE HANGERS AND SUPPORT FOR NEWLY INSTALLED PIPE.
- 03 FIRE RATED WALL TO BE REPAIRED SUCH THAT RATING IS MAINTAINED.

GENERAL NOTES:  
1. REFER TO P001 FOR PLUMBING NOTES, LEGEND AND ABBREVIATIONS.

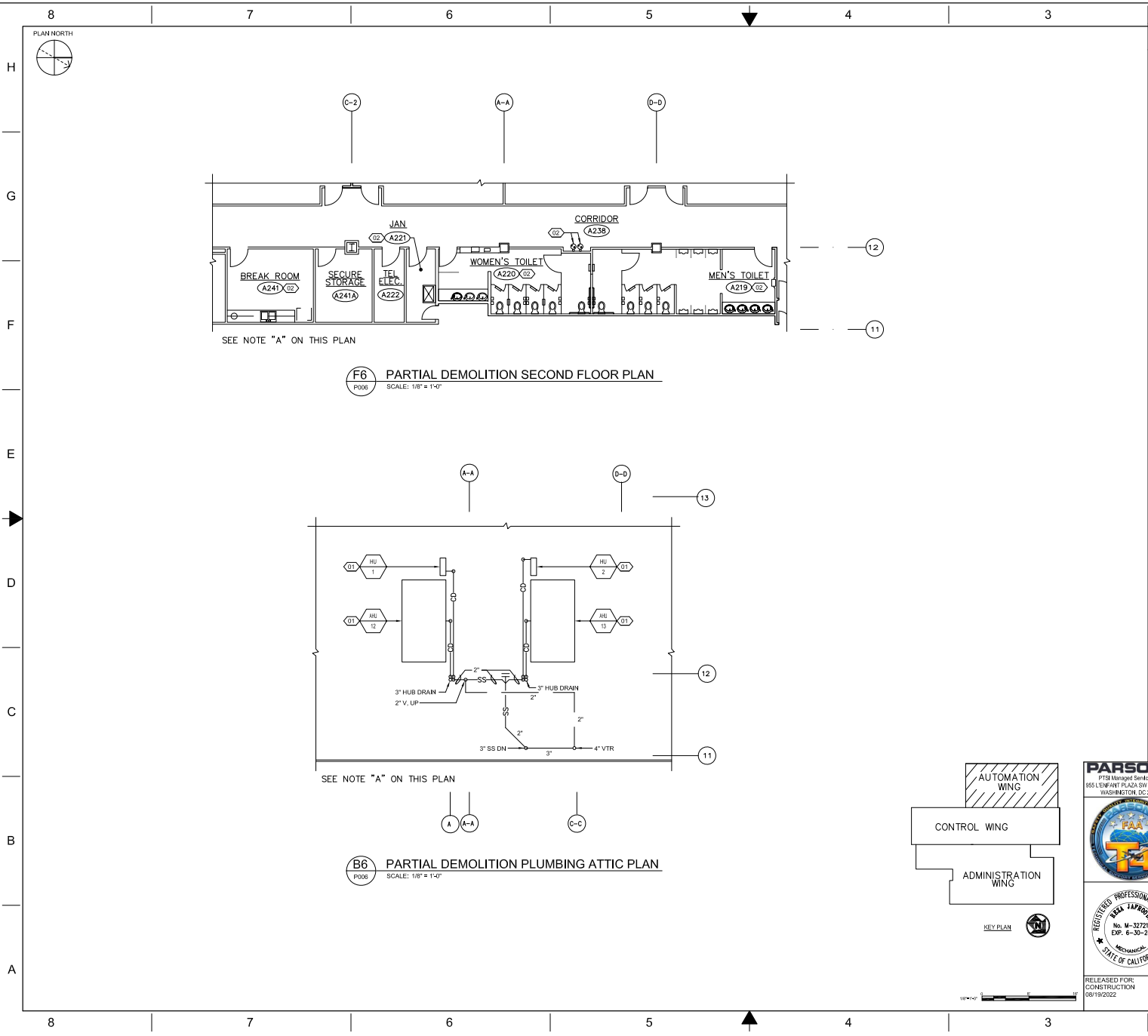
FIRE RESISTANCE RATINGS:  
----- 1-HOUR FIRE RATED PARTITION  
----- 2-HOUR FIRE RATED PARTITION

A5 PLUMBING FIRST FLOOR PLAN  
P005 SCALE: 1/8" = 1'-0"



FOR OFFICIAL USE ONLY PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552					
REV. APPROVED DATE. DESCRIPTION. JCN. RESUME DATE. NPUD.					
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS. WESTERN SERVICE AREA/SERVICE AREA.					
ARTCC ZOA AUTOMATION WING SEWER PIPE REPLACEMENT PLUMBING FIRST FLOOR PLAN					
FREMONT		OAKLAND CTR		CA	
REVIEWED BY: CANG TRAN		SUBMITTED BY: ELYZZA SESON		APPROVED BY:	
PROJECT ENGINEER		DESIGNED BY: RJ		ISSUED BY: ENGINEERING SERVICES	
DRAWN: JA		CHECKED: RL		DATE: 08/19/2022 JCN 908480	
RELEASED FOR CONSTRUCTION 08/19/2022		DRAWING NO: ZOA-908480-P005		REV	





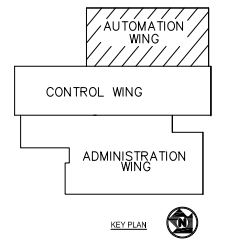
**F6 PARTIAL DEMOLITION SECOND FLOOR PLAN**  
P006 SCALE: 1/8" = 1'-0"



**B6 PARTIAL DEMOLITION PLUMBING ATTIC PLAN**  
P006 SCALE: 1/8" = 1'-0"

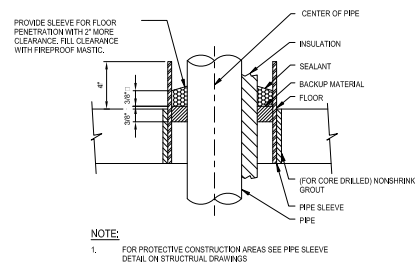
- ### KEY NOTES
- 01 CONDENSATE LINES WILL NEED TO BE TEMPORARY MODIFIED TO CAPTURE CONDENSATE DURING CONSTRUCTION. FIELD VERIFY ALL CONDENSATE LINE IN THE AUTOMATION WING THAT ARE BEING SERVED BY THE MAIN WASTE LINE. CAPTURED CONDENSATE WILL NEED TO BE CHECKED/EMPTYED ON A PERIODIC SCHEDULE TO PREVENT OVERFLOW, SPILLS AND LEAKS.
  - 02 PLUMBING FIXTURE TO BE SHUTDOWN DURING CONSTRUCTION. FIELD VERIFY ALL FIXTURES SERVED BY THE MAIN WASTE LINE ARE SHUTDOWN. NOT ALL FIXTURES MAY BE SHOWN.

- ### GENERAL NOTES:
- 1. REFER TO P001 FOR PLUMBING NOTES, LEGEND AND ABBREVIATIONS.
  - 2. THE PURPOSE OF THIS SHEET IS TO SHOW THE PLUMBING FIXTURES AND MECHANICAL EQUIPMENT DRAINING INTO THE MAIN WASTE LINE. REFER TO SHEET NOTES FOR ADDITIONAL INFORMATION.

- ### DEMOLITION NOTES:
- A. THIS DRAWING IS TO BE USED FOR SCHEMATIC PURPOSES ONLY. ACTUAL DEMOLITION WORK MAY VARY BASED ON EXISTING CONDITIONS. VERIFY LOCATIONS, SIZES AND DIMENSIONS AFFECTING WORK.






<b>PARSONS</b> PTB Managed Services Inc. 955 LEHMAN PLAZA SW SUITE 6100 WASHINGTON, DC 20024		FOR OFFICIAL USE ONLY PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552	
			
RELEASED FOR CONSTRUCTION 08/19/2022		No. M-32721 EXP. 6-30-24 MECHANICAL STATE OF CALIFORNIA	
REVIEWED BY: <b>CANG TRAN</b>		SUBMITTED BY: <b>ELYZZA SESON</b>	
PROJECT ENGINEER		MGR: ENGINEERING	
DESIGNED: RJ	ISSUED BY: RJ	DATE: 08/19/2022	JCN: 908480
DRAWN: JA	ENGINEERING SERVICES: EN ROUTE	DRAWING NO: <b>ZOA-908480-P006</b>	REV
CHECKED: RL			



**A8** PIPE PENETRATIONS THROUGH VARIOUS STRUCTURES  
SCALE: NOT TO SCALE



		PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552					
PTSD Managed Services Inc. 9511 SHEPARD PLAZA-SW SUITE B100 WASHINGTON, DC 20024							
		REV	APPROVED DATE	DESCRIPTION	JCN	RELEASE DATE	APD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							
ATO - TECHNICAL OPERATIONS				WESTERN SERVICE AREA/SERVICE AREA			
ARTCC ZOA AUTOMATION WING SEWER PIPE REPLACEMENT DETAILS							
		FREMONT		OAKLAND CTR		CA	
RELEASED FOR CONSTRUCTION 09/19/2022		SUBMITTED BY <b>CANG TRAN</b>	APPROVED BY <b>ELYZZA SESON</b>				
		PROJECT ENGINEER DESIGNED RJ	MGR: ENGINEERING				
		DRAWN JA	ISSUED BY ENGINEERING SERVICES EN ROUTE		DATE 09/19/2022	JCN	908480
		CHECKED BL			DRAWING NO <b>ZOA - 908480 - P007</b>		REV