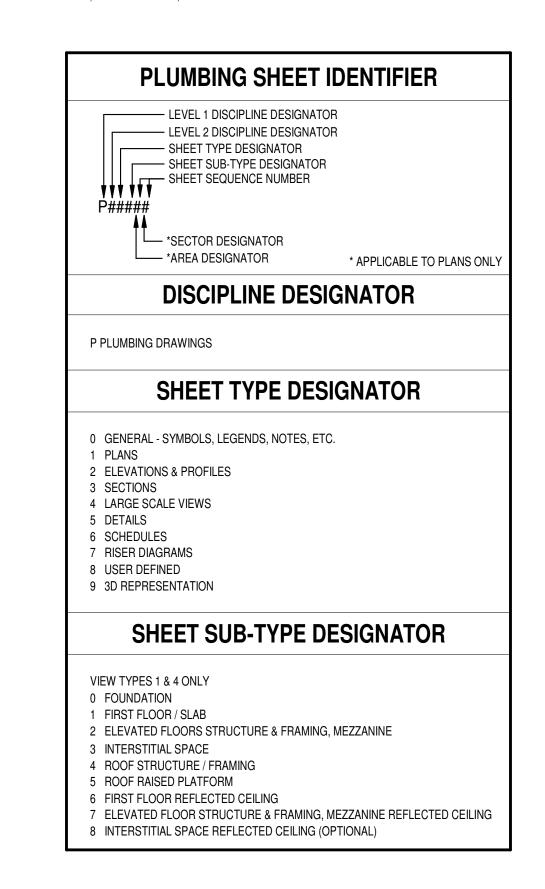
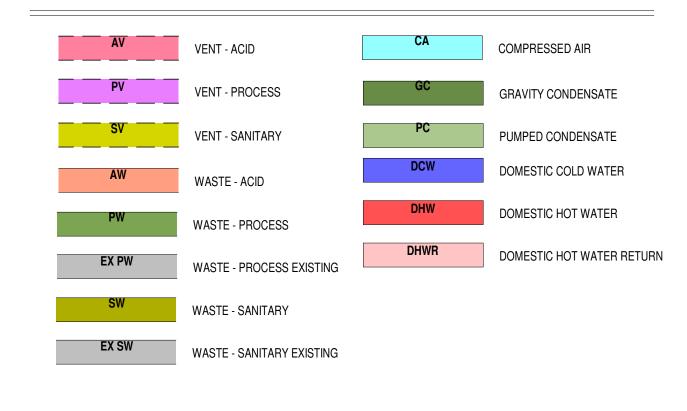
NOTE: ALL SYMBOLS, ABBREVIATIONS, AND SYSTEMS SHOWN MAY NOT APPEAR ON DRAWINGS

PLUMBING LEGEND DESCRIPTION ABBREVIATIONS SYMBOL AFF ABOVE FINISHED FLOOR ASTM AMERICAN SOCIETY FOR TESTING & MATERIALS FLOOR CLEAN-OUT (FCO) BFF BELOW FINISHED FLOOR BFG BELOW FINISHED GRADE CMU CONCRETE MASONRY UNIT WALL CLEAN-OUT (WCO) CO CLEAN-OUT (ON PIPE STACK) COOG CLEAN-OUT ON GRADE FLOOR DRAIN (FD) CMU CONCRETE MASONRY UNIT DN DOWN DWV DOMESTIC WASTE AND VENT HUB DRAIN (HD) EL ELEVATION GPM GALLONS PER MINUTE I.E. INVERT ELEVATION TIE-IN TO EXISTING IMP INSULATED METAL PANEL NSF NATIONAL SANITARY FOUNDATION OC ON CENTER PSI POUNDS PER SQUARE INCH SCO STACK CLEANOUT TP TRAP PRIMER TYP TYPICAL VTR VENT THROUGH ROOF

NOTE: ALL SYMBOLS, ABBREVIATIONS, AND SYSTEMS SHOWN MAY NOT APPEAR ON DRAWINGS



PLUMBING & UTILITIES SYSTEMS LEGEND



	PLUMBING SHEET LIST					
SHEET NO.	SHEET NAME					
P0001	PLUMBING LEGEND AND NOTES					
P1101	OVERALL FIRST FLOOR PLUMBING PLAN					
P1111	PARTIAL FIRST FLOOR PLUMBING PLAN - AREA 1					
P1121	PARTIAL FIRST FLOOR PLUMBING PLAN - AREA 2					
P1221	PARTIAL SECOND FLOOR PLUMBING PLAN - AREA 2					
P1311	PARTIAL ROOF PLUMBING PLAN - AREA 1					
P4121	ENLARGED FIRST FLOOR PLUMBING / UTILITY PLANS - AREA 2					
P4221	ENLARGED SECOND FLOOR PLUMBING / UTILITY PLANS - AREA 2					
P5001	PLUMBING - UTILITY DETAILS					
P5002	PLUMBING - UTILITY DETAILS					
P6001	PLUMBING - UTILITY SCHEDULES					
P6002	PLUMBING - UTILITY SCHEDULES					
P7001	PLUMBING RISER DIAGRAMS					
P7002	COMPRESSED AIR FLOW DIAGRAM					
PS1100	PLUMBING - UTILITY SITE PLAN					

CODES IN FORCE

THIS IS A LIST OF MAJOR CODES FOR RECORD PURPOSES AND DOES NOT EXEMPT THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE CODES.

2020 FLORIDA BUILDING CODE
2020 FLORIDA ENERGY CONSERVATION CODE
2020 FLORIDA MECHANICAL CODE
2020 FLORIDA PLUMBING CODE
2020 FLORIDA FUEL GAS CODE
2020 FLORIDA FIRE PREVENTION CODE

PLUMBING & UTILITY GENERAL NOTES

- 1.0 GENERAL:

 1.01 FOLLOW ALL GENERAL NOTES AND SPECIFICATIONS UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 1.02 FOR COMMUNICATION WITH THE ENGINEER, PLEASE FOLLOW THE OFFICIAL RFI PROCESS AS OUTLINED IN THE GENERAL CONDITIONS.
- PROPOSED SUBSTITUTIONS OR CHANGES IN EQUIPMENT, COMPONENTS, MATERIALS, PRODUCTS, AND/OR CONSTRUCTION FROM THOSE PROVIDED IN THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS), SHALL BE REQUESTED IN WRITING. THE PROPOSAL SHALL CONTAIN NOT LESS THAN THE FOLLOWING:

 a. COMPLETE SUBMITTAL INFORMATION INCLUDING: PRODUCT DATA, GRAPHIC INFORMATION, PERFORMANCE DATA, TEST RESULTS, AND WARRANTY INFORMATION.
 b. DESCRIPTION COMPARING THE PROPOSED SUBSTITUTION AND THE RESULTING VARIANCES WITH SPECIFIED COMPONENTS.
- c. COMPARISON OF COST BETWEEN PROPOSED SUBSTITUTION AND SPECIFIED COMPONENTS.
 d. COMPARISON OF LEAD TIME BETWEEN PROPOSED SUBSTITUTION AND SPECIFIED COMPONENTS.
- 1.04 ALL EQUIPMENT, COMPONENTS, AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS AND INSTALLATION REQUIREMENTS OF THE MANUFACTURER. ALL EQUIPMENT, COMPONENTS, AND MATERIALS SHALL ALSO BE INSTALLED USING ACCEPTED STANDARD PRACTICES WITH ATTENTION MADE TO SAFETY, DURABILITY, NEATNESS OF FINISHED WORK, MAINTENANCE ACCESSIBILITY, AND CODE REQUIRED CLEARANCES (SUCH AS THOSE REQUIRED BY THE NEC).
- 1.05 ALL EQUIPMENT, COMPONENTS, AND MATERIALS INDICATED ON THE DRAWINGS OR WITHIN THE SPECIFICATION SHALL BE NEW.
- 1.06 ALL EQUIPMENT, COMPONENTS, AND MATERIALS SHALL BE PROTECTED FROM ANY DAMAGE INCLUDING (BUT NOT LIMITED TO) WEATHER OR PHYSICAL DAMAGE FROM JOBSITE DELIVERY THROUGH FINAL COMPLETION. ALL EQUIPMENT, COMPONENTS, AND MATERIALS SUPPLIED UNDER THIS DIVISION, WHICH MAY HAVE BEEN DAMAGED OR SCRATCHED, SHALL BE RESTORED AND TOUCHED UP WITH THE MANUFACTURER'S PAINT TO MANUFACTURED CONDITION.
- 1.07 THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL THE STRUCTURAL AND CONSTRUCTION DETAILS NECESSARY FOR A COMPLETE INSTALLATION. ANY REQUIREMENT INVOLVING ACCURATE MEASUREMENTS SHALL BE TAKEN AT THE SITE. ANY NECESSARY LABOR AND MATERIAL CHANGES OR ADDITIONS TO ACCOMMODATE STRUCTURAL CONDITIONS SHALL BE MADE.
- 1.08 PERFORM ALL WORK IN ACCORDANCE WITH ALL RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AND PROVIDE ADDITIONAL EQUIPMENT, COMPONENTS, MATERIALS, AND LABOR WHERE REQUIRED FOR COMPLIANCE.
- 1.09 ALL SERVICES SHALL BE INSTALLED PARALLEL TO BUILDING LINES.
- 1.10 IN PROCESS WASHDOWN AREAS, HANGER RODS SHALL BE STAINLESS STEEL ROD WITH THREADED ENDS. FULLY THREADED RODS WILL NOT BE PERMITTED IN SUCH AREAS.
- 1.11 ALL EQUIPMENT, COMPONENT, AND MATERIAL LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES, AND EXISTING CONDITIONS. ANY CONFLICTS SHALL BE SUBMITTED AS AN RFI TO THE ENGINEER WITH A PROPOSED SOLUTION.
- 1.12 LOADS SUSPENDED FROM THE ROOF OR FLOOR STRUCTURE ABOVE SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURAL MEMBER (SUCH AS, WITHOUT LIMITATION: CONCRETE TEE BEAM, BAR JOIST, OR STEEL BEAM). PROVIDE SECONDARY SUPPORT MATERIAL DESIGNED TO CARRY THE LOAD BETWEEN THE STRUCTURAL MEMBERS. DO NOT SUPPORT LOADS FROM BRIDGING OR ROOF DECK.
- 1.13 PROVIDE UL LISTED THROUGH PENETRATION FIRE STOP SYSTEM FOR ALL PENETRATIONS THOUGH FIRE RATED ASSEMBLIES NOT PROTECTED BY FIRE DAMPERS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATED ASSEMBLIES.
- SHOP DRAWING SUBMITTALS: SUBMIT TO STELLAR FOR REVIEW BEFORE COMMENCING WORK. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT, COMPONENTS, AND MATERIALS TO BE PROVIDED UNDER THIS CONTRACT. THE FOLLOWING APPLIES TO SHOP DRAWING SUBMITTALS:

 A. CLEARLY INDICATE ON EACH SUBMITTAL THE MARK OR DESIGNATION WHICH CORRESPONDS TO THE CONTRACT DRAWING SCHEDULES. FOR EXAMPLE: FD-1, S-3, ETC. SUBMITTALS WHICH DO NOT INDICATE THE SCHEDULED MARK WILL BE REJECTED.

 B. SUBMIT DRAWINGS OR CUTS OF ALL MATERIALS AND EQUIPMENT FOR REVIEW. SUCH SUBMITTALS MUST CONTAIN OUTLINE DIMENSIONS, OPERATING CLEARANCES, INSTALLATION, OPERATING AND MAINTENANCE INFORMATION AND SUFFICIENT ENGINEERING DATA TO INDICATE SUBSTANTIAL COMPLIANCE WITH SPECIFICATIONS. ALL SHOP DRAWING SUBMITTALS FOR ONE SPECIFICATION SECTION OF WORK OR ONE PLUMBING SYSTEM SHALL BE SUBMITTED AT ONE TIME. INCOMPLETE SUBMITTALS WILL BE REJECTED.

 C. WHERE A SUBCONTRACTOR CONSIDERS ADDITIONAL DETAIL OR SHOP DRAWINGS ESSENTIAL TO PROPER FABRICATION OR INSTALLATION OF EQUIPMENT AND PIPING, THEY SHALL PREPARE SUCH DRAWINGS AND SUBMIT FOR REVIEW.

 D. DESIGN IS BASED ON MANUFACTURER NAMED ON DRAWINGS OR IN SPECIFICATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE EXCEPTIONS TO OR DEVIATIONS FROM THE DESIGN BASIS.
- 1.15 THE JOINING OF DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH DIELECTRIC FITTINGS.
- 1.16 UPON COMPLETION OF WORK, THOROUGHLY CLEAN THE ENTIRE SYSTEM AND TEST TO ENSURE THAT THE SYSTEM PERFORMS TO REQUIREMENTS. LEAVE WORK IN SUITABLE OPERATING CONDITION TO BE TURNED OVER TO THE OWNER.
- 1.17 VERIFY ALL FLOOR DRAIN FINISH ELEVATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 1.18 OFFSET VENTS AS REQUIRED TO MAINTAIN A MINIMUM OF 10 FT. SEPARATION FROM ALL OUTSIDE AIR INTAKES.
- 1.19 PROVIDE RODENT SCREENS FOR ALL VENTS.
- 1.20 DO NOT LOCATE FLOOR DRAINS OR CLEANOUTS NEAR DOORS OR IN TRAVEL PATHWAYS.
- ALL UTILITY EQUIPMENT SHALL BE FURNISHED COMPLETE WITH MOTOR STARTERS, ELECTRICAL DISCONNECTS, AND HEATER CONTACTORS. ALL OPERATING CONTROLS AND SAFETIES SHALL BE UL OR ETL LISTED. ALL MOTORS 1 HP AND LARGER SHALL BE PROVIDED WITH THERMAL OVERLOADS.
- 1.22 EQUIPMENT SHALL NOT HAVE EXCESSIVE NOISE OR VIBRATION WHICH WILL IMPACT THE LONGEVITY OF THE EQUIPMENT.
- 1.23 COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING AND VIBRATION ISOLATION BASES. CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED EQUIPMENT MUST BE MADE WITH A MINIMUM OF 4" THICK REINFORCED CONCRETE, HAVE CHAMFERED EDGES, AND MUST BE A MINIMUM OF 4" LARGER ON ALL FOUR SIDES THAN THE EQUIPMENT FOOTPRINT. CAST ANCHOR-BOLT INSERTS INTO BASE. CONCRETE, REINFORCEMENT AND FORMWORK REQUIREMENTS ARE SPECIFIED ON STRUCTURAL DRAWINGS.
- 1.24 PROVIDE FLEXIBLE PIPE CONNECTIONS TO ALL PUMPS WITH 1/2 HP OR GREATER.
- 1.25 PROVIDE LONG RADIUS PIPING ELBOWS. SHORT RADIUS ELBOWS WILL BE REMOVED AND REPLACED WITH LONG RADIUS ELBOWS.
- 1.26 IN EQUIPMENT ROOMS SUCH AS THE BOILER ROOM, UTILITY ROOM, OR MECHANICAL ROOM, PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES 10 FEET OR MORE ABOVE FINISHED FLOOR.
- 1.27 PROVIDE EVERY PIPING DEVICE INCLUDING BUT NOT LIMITED TO VALVES, STRAINERS, SENSORS, INDICATORS, AND ORIFICE PLATES SHOWN ON THE UTILITY FLOW DIAGRAMS AND SCHEMATICS IN THE ORDER OF FLOW SHOWN REGARDLESS OF WHETHER OR NOT THEY ARE SHOWN ON THE PIPING PLANS OR DETAILS.
- 1.28 PROVIDE WATER HAMMER ARRESTORS IN WATER SUPPLY LINES PER CODE REGARDLESS OF WHETHER OR NOT THEY ARE SHOWN ON THE PIPING PLANS/DETAILS.
- ALL ITEMS SUCH AS, BUT NOT LIMITED TO: VALVES, STRAINERS, SENSORS, AND AIR SEPARATORS INSTALLED IN INSULATED PIPING SYSTEMS SHALL BE INSULATED WITH THE SAME INSULATION, JACKETING, VAPOR BARRIER, AND HEAT TRACING AS THE PIPING SYSTEM. ALL EQUIPMENT PIPED INLINE WITH AN INSULATED PIPING SYSTEM SUCH AS BUT NOT LIMITED TO TANKS, PUMPS, HEAT EXCHANGERS, METERS, AND FILTERS SHALL BE INSULATED WITH THE SAME INSULATION, JACKETING, VAPOR BARRIER, AND HEAT TRACING AS THE PIPING SYSTEM. ALL SKID-MOUNTED PIPING ON EQUIPMENT SHIPPED TO THE JOBSITE WITHOUT INSULATION SUCH AS BUT NOT LIMITED TO BOILER FEEDWATER SYSTEMS, RO WATER SYSTEMS, WATER SOFTENERS, AND OZONE WATER SYSTEMS PIPED INLINE WITH AN INSULATED PIPING SYSTEM SHALL BE INSULATED WITH THE SAME INSULATION, JACKETING, VAPOR BARRIER, AND HEAT TRACING AS THE PIPING SYSTEM. ALL PIPING AND EQUIPMENT AND CONNECTED ITEMS AS OUTLINED BELOW 70°F OR ABOVE 120°F SHALL BE INSULATED WHETHER THEY ARE SPECIFICALLY CALLED OUT OR LISTED AS INSULATED ON THE CONTRACT DRAWINGS OR NOT. ALL PIPING AND EQUIPMENT AND CONNECTED ITEMS AS OUTLINED WHICH PASSES THROUGH A FREEZER OR COOLER SPACE OR IS INSTALLED OUTDOORS SHALL BE INSULATED AND HEAT TRACED (WITH THE EXCEPTION OF COMPRESSED AIR AND NATURAL GAS SYSTEMS).
- 1.30 PROVIDE OPD (OVER-PRESSURE DEVICE) AT EACH GAS REGULATOR. INSTALL OPDs OUTDOORS WHERE POSSIBLE. IN CASES WHERE OPDs ARE INSTALLED INDOORS, PROVIDE A VENT TO THE OUTDOORS USING THE SAME MATERIAL AS THE SUPPLY GAS PIPING.
- 1.31 BALANCE ALL CIRCULATING WATER SYSTEMS TO FLOW RATES INDICATED USING CIRCUIT SETTERS AS SHOWN ON THE SCHEMATIC FLOW DIAGRAMS REGARDLESS OF WHETHER THEY ARE SHOWN ON THE PIPING PLAN/DETAILS OR NOT.

2.0 PROJECT SPECIFIC NOTES:

- 2.01 EXISTING FACILITY TIE-INS: IF THIS IS AN OPERATING FOOD MANUFACTURING FACILITY. ALL TIE-INS AND RELATED SHUTDOWNS MUST BE COORDINATED BY THE PLUMBING/UTILITY CONTRACTOR WITH THE OWNER VIA THE STELLAR SUPERINTENDENT. EXISTING SYSTEMS IS SHOWN ON THIS SET OF DRAWINGS BASED ON DRAWINGS USED TO CONSTRUCT THE FACILITY. CHANGES MAY HAVE OCCURRED SINCE THEN. THE CONTRACTOR SHALL FIELD-VERIFY TIE-INS AND DEVELOP ALTERNATIVES WHEN EXISTING CONDITIONS DIFFER FROM THE DRAWINGS. NEW PIPING SHALL NOT BE TIED INTO THE SAME SIZE OR SMALLER EXISTING PIPING. IF EXISTING CONDITIONS ARE FOUND TO BE DIFFERENT THAN WHAT IS SHOWN ON THE DRAWINGS, CONTACT THE SUPERINTENDENT WITH A PROPOSED SOLUTION.
- UTILITY CONTRACTOR'S SCOPE FOR PROCESS EQUIPMENT UTILITY PIPING: INDIVIDUAL PIPING RUNOUTS ARE SHOWN ON THE DRAWINGS TO SERVE PROCESS EQUIPMENT. THE UTILITY CONTRACTOR'S SCOPE IS TO PROVIDE A HORIZONTAL RUNOUT AS SHOWN AND TERMINATE IT WITH THE APPROPRIATE VALVE. FROM THERE THE PROCESS CONTRACTOR WILL ATTACH THEIR PIPING TO THE VALVE OUTLET, TURN THEIR PIPING DOWN, PENETRATE AND SEAL THE IMP CEILING (WHERE APPLICABLE), AND MAKE THE FINAL CONNECTION TO THE PIECE OF PROCESS EQUIPMENT.

3.0 SEISMIC AND WIND LOADING REQUIREMENTS:

- 3.01 DELEGATED DESIGN SUBMITTAL FOR WIND AND SEISMIC LOADING: FOR ALL EQUIPMENT, COMPONENT, AND MATERIAL IMPACTED BY THE WIND AND SEISMIC REQUIREMENTS OF THE SITE, THE ASSIGNED CONTRACTOR SHALL DESIGN, PROVIDE AND INSTALL THE SUPPORTS AND TIE-DOWNS FOR EACH ITEM TO COMPLY WITH THE PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA AS INDICATED IN THESE DOCUMENTS AND ON THE STRUCTURAL DRAWINGS, INCLUDING SUPPORT AND TIE-DOWN ANALYSIS AND DESIGN SIGNED AND SEALED BY A PROPERLY LICENSED AND QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
- 3.02 DESIGN CALCULATIONS: CALCULATE REQUIREMENTS FOR DESIGNING TIE-DOWNS AND SUPPORT TO COMPLY WITH THE CODES AND STANDARDS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR THE PROJECT.
- 3.03 SUBMITTALS: INDICATE FABRICATION AND ARRANGEMENT OF TIE-DOWN SYSTEMS AND SUPPORT SYSTEMS. DETAIL ATTACHMENTS OF RESTRAINTS TO THE RESTRAINED ITEMS AND TO THE STRUCTURE. SHOW ATTACHMENT LOCATIONS, METHODS, AND SPACING. IDENTIFY COMPONENTS, LIST THEIR STRENGTHS, AND INDICATE DIRECTIONS AND VALUES OF FORCES TRANSMITTED TO THE STRUCTURE. BY THESE SUBMITTALS, THE CONTRACTOR THEREBY REPRESENTS THAT HE HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA AND THAT THEY HAVE CHECKED AND COORDINATED THE SHOP DRAWINGS, DATA OR SAMPLES WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS. SUBMISSIONS SHALL BE SPECIFIC SO THAT COMPLIANCE WITH THE CONTRACT DOCUMENTS CAN BE EASILY ASCERTAINED.
- 3.04 THE DELEGATED DESIGN SHALL INCLUDE DETAIL MOUNTING, SECURING AND FLASHING OF EQUIPMENT TO ROOF CURB AND OF ROOF CURB TO ROOF STRUCTURE OR OF EQUIPMENT DIRECTLY TO ROOF STRUCTURE. INDICATE IN THE SUBMITTAL HOW THE DESIGN HAS ADDRESSED COORDINATING REQUIREMENTS WITH THE ROOF MEMBRANE SYSTEM.
- THE DELEGATED DESIGN SHALL ADDITIONALLY COMPLY WITH THE REQUIREMENTS OF DIVISION 01 OF THE PROJECT'S SPECIFICATIONS WITH REGARDS TO THE DESIGN, SUBMISSION, APPROVAL AND OVERSIGHT OF THE IMPLEMENTATION OF THE TIE-DOWN AND SUPPORT DESIGN AS A COMPLETE AND COORDINATED INSTALLED SYSTEM.
- 3.06 COORDINATE LAYOUT AND INSTALLATION OF ALL RESTRAINT DEVICES WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, MECHANICAL PIPEWORK, FIRE-SUPPRESSION SYSTEM COMPONENTS AND PARTITION ASSEMBLIES.

OWNER ®

PROJECT INFORMATION

US COLD STORAGE
PHASE III EXPANSION
LAKE CITY, FLORIDA



THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930



This document has been digitally signed, sealed, and dated by Douglas J. Cooper P.E. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CONSULTANT

Douglas James Cooper
2023.06.01 14:15:57-04'00'

The Stellar Group, Inc.
All rights reserved. No part of this work may be used, reproduced, distributed, displayed, or otherwise communicated in any form or by any means without the prior written consent of The Stellar Group, Inc.

NO.	DESCRIPTION	DATI
С	PERMIT ISSUE	05/26/2
В	DESIGN DEVELOPMENT 2	04/03/2
Α	DESIGN DEVELOPMENT 1	03/06/2

DATE ISSUED: 05/26/2023

DESIGNED BY: RB

REVIEWED BY: NSB

A/EOR: DC

PLUMBING LEGEND AND NOTES

....

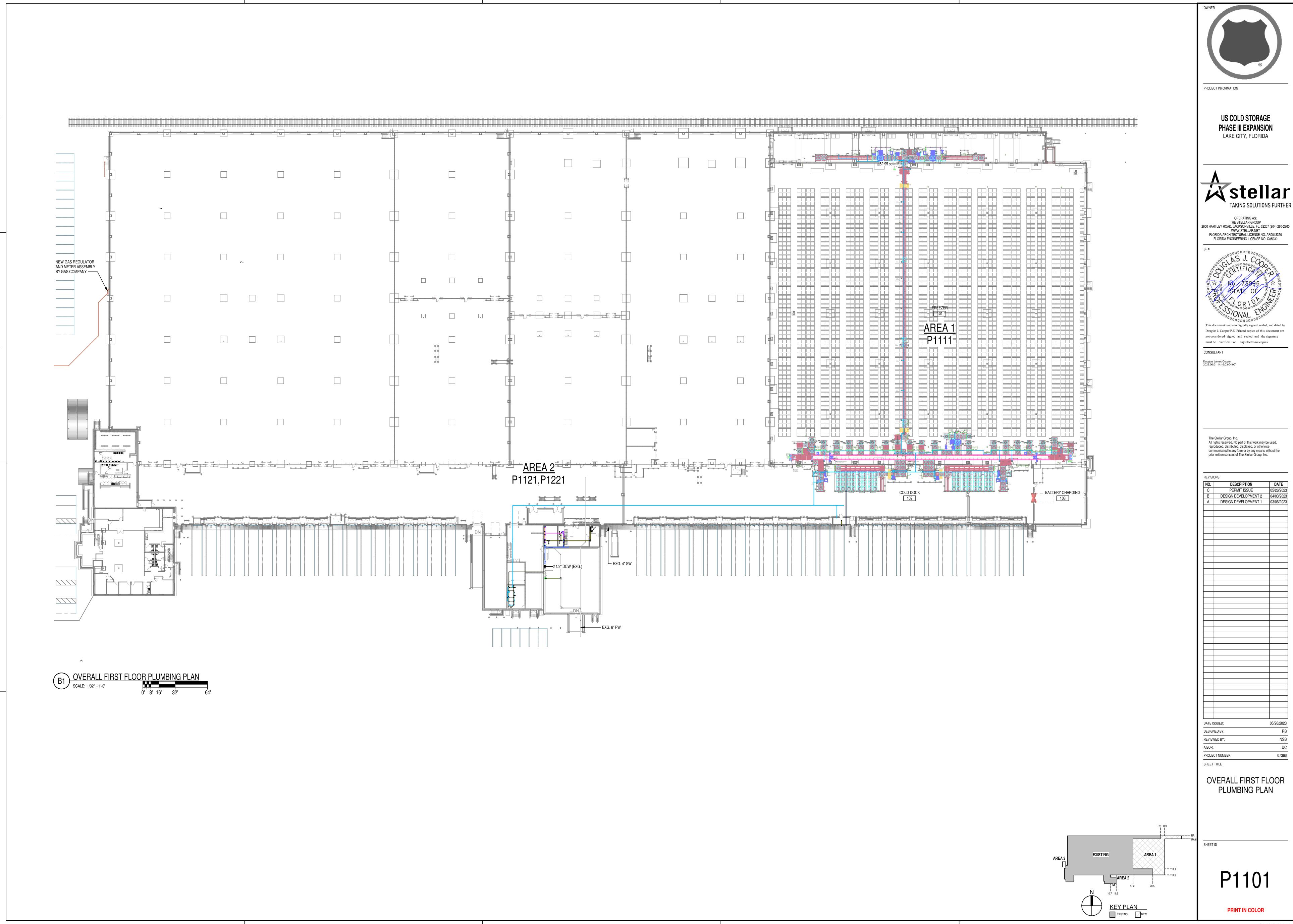
CLIEFTID

PROJECT NUMBER:

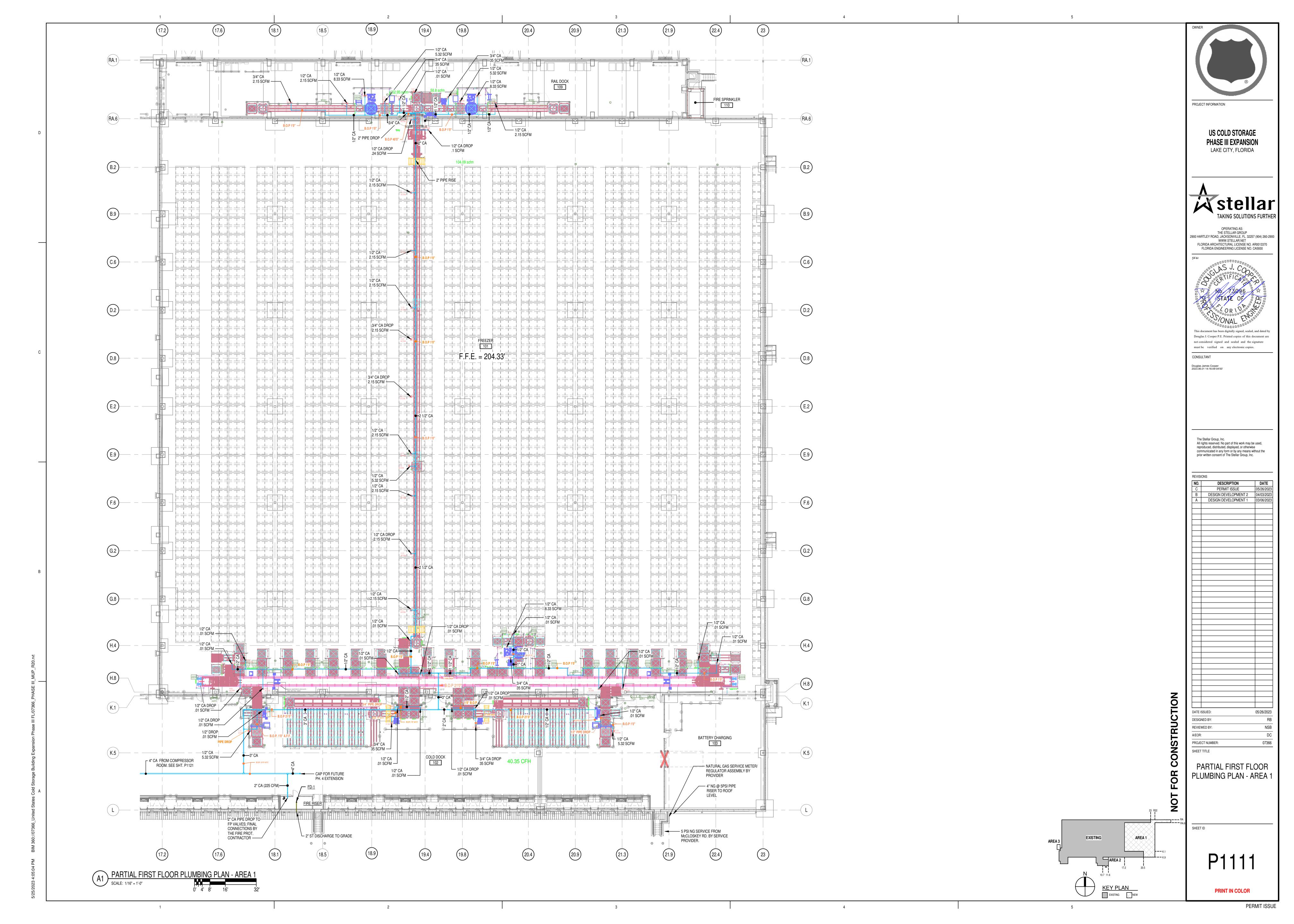
SHEET TITLE

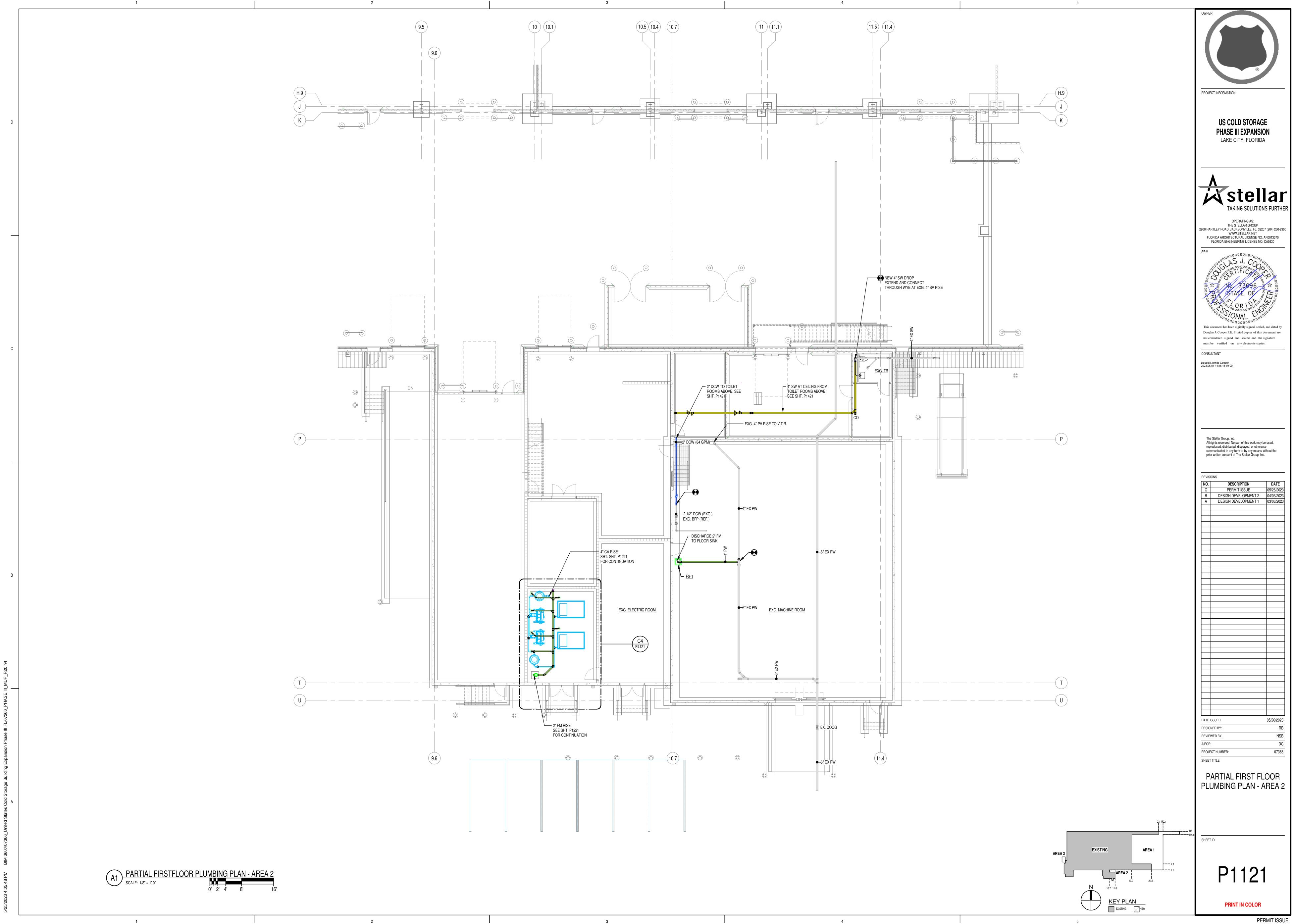
P0001

PRINT IN COLOR

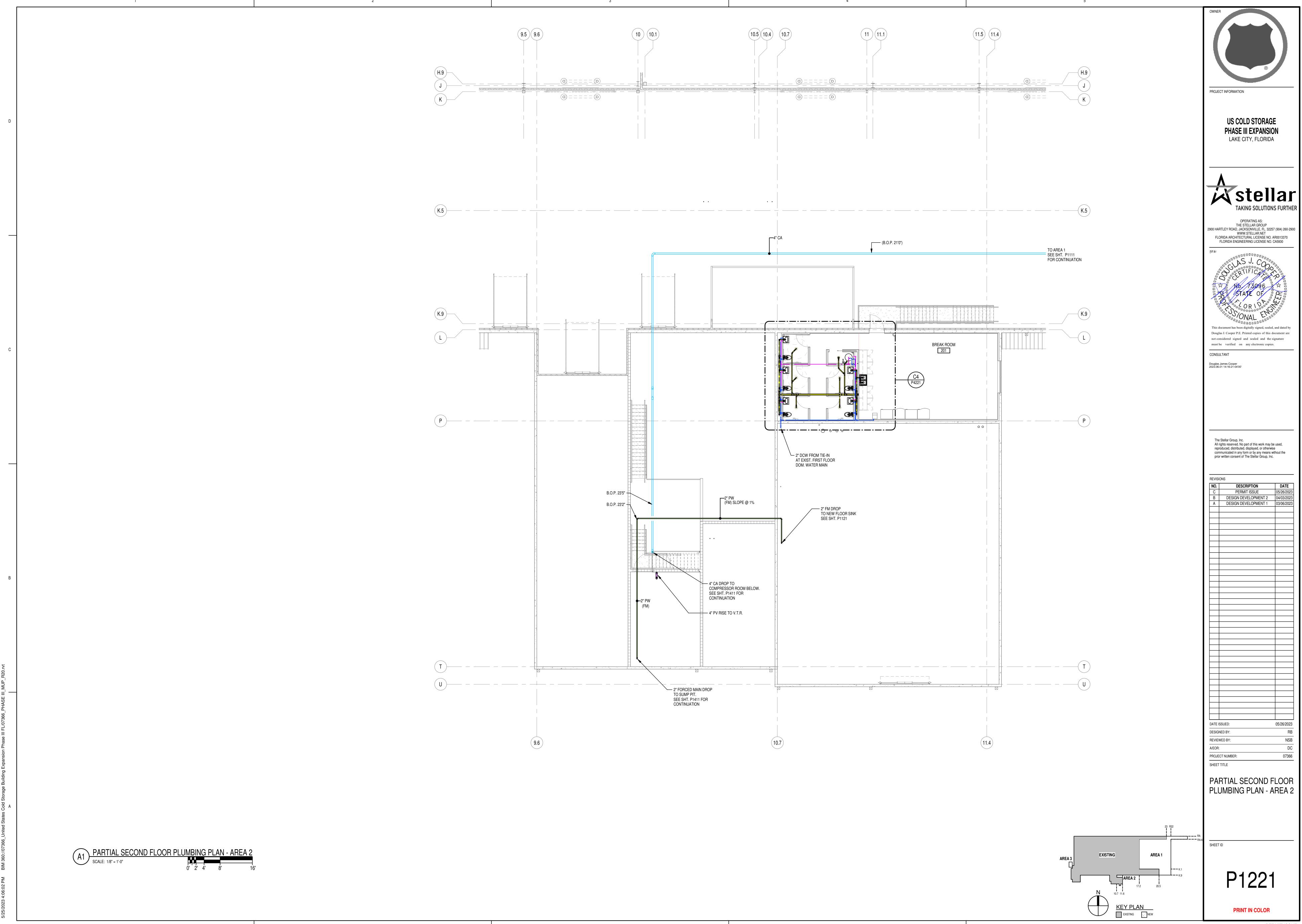


05/26/2023

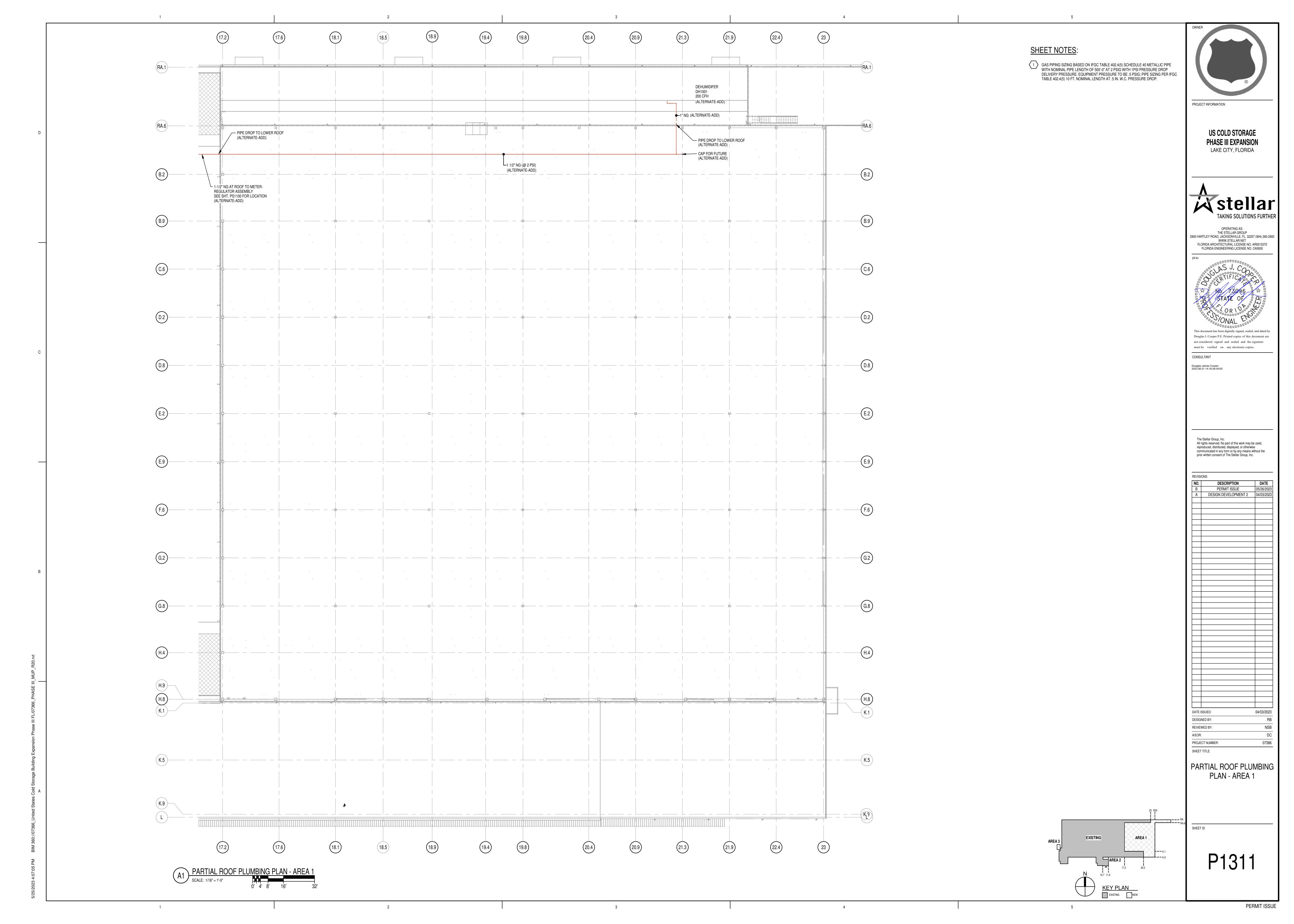




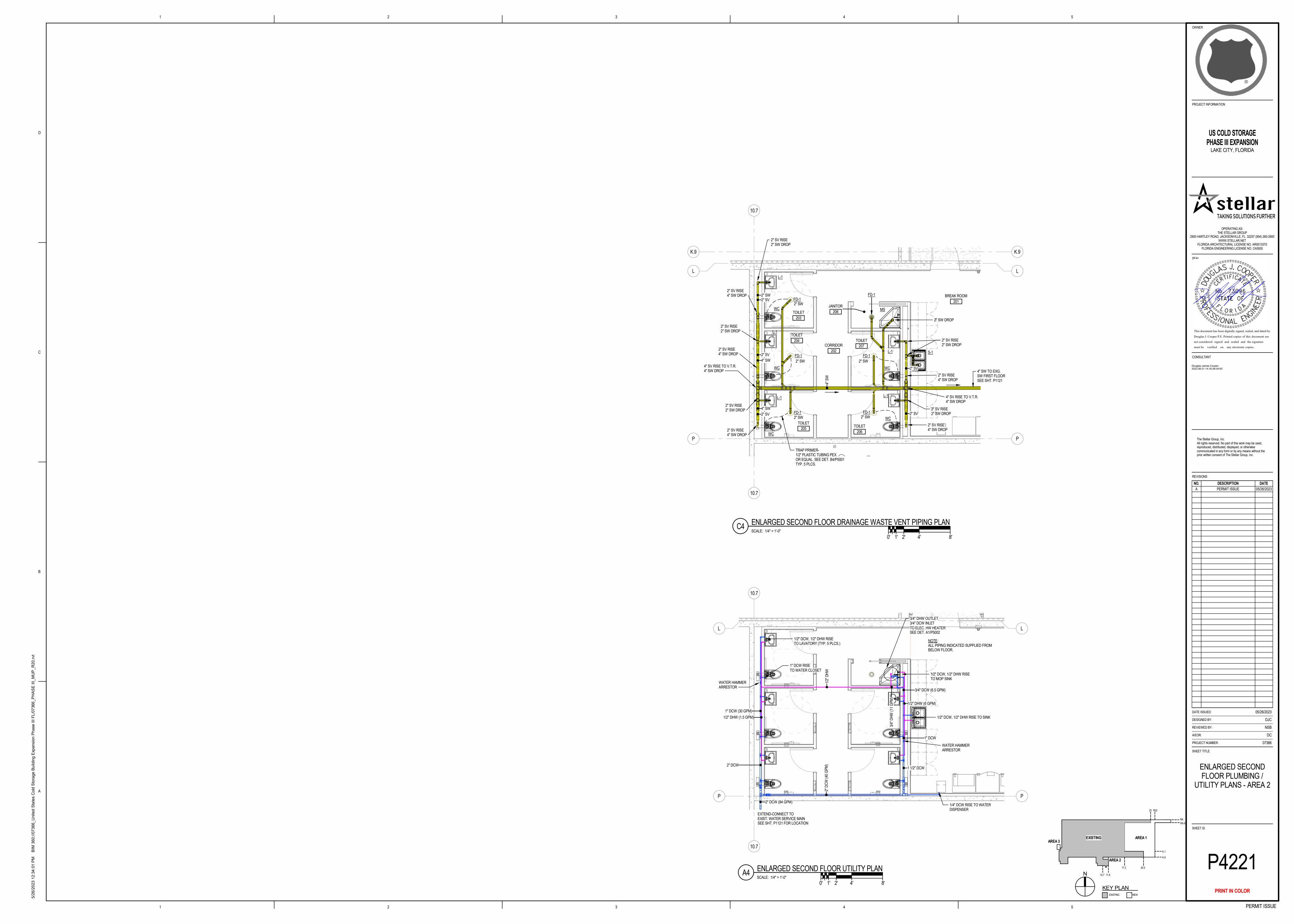


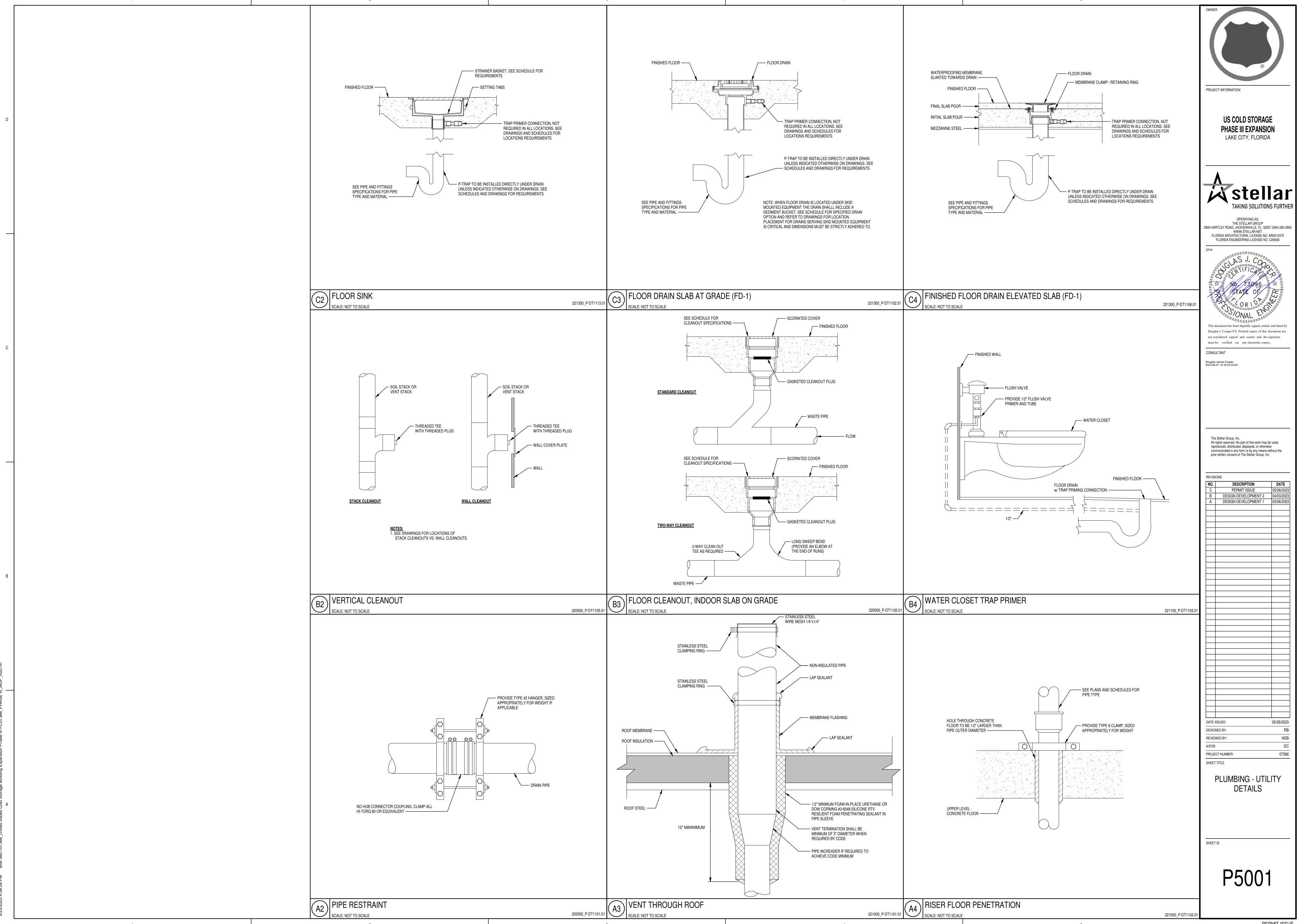


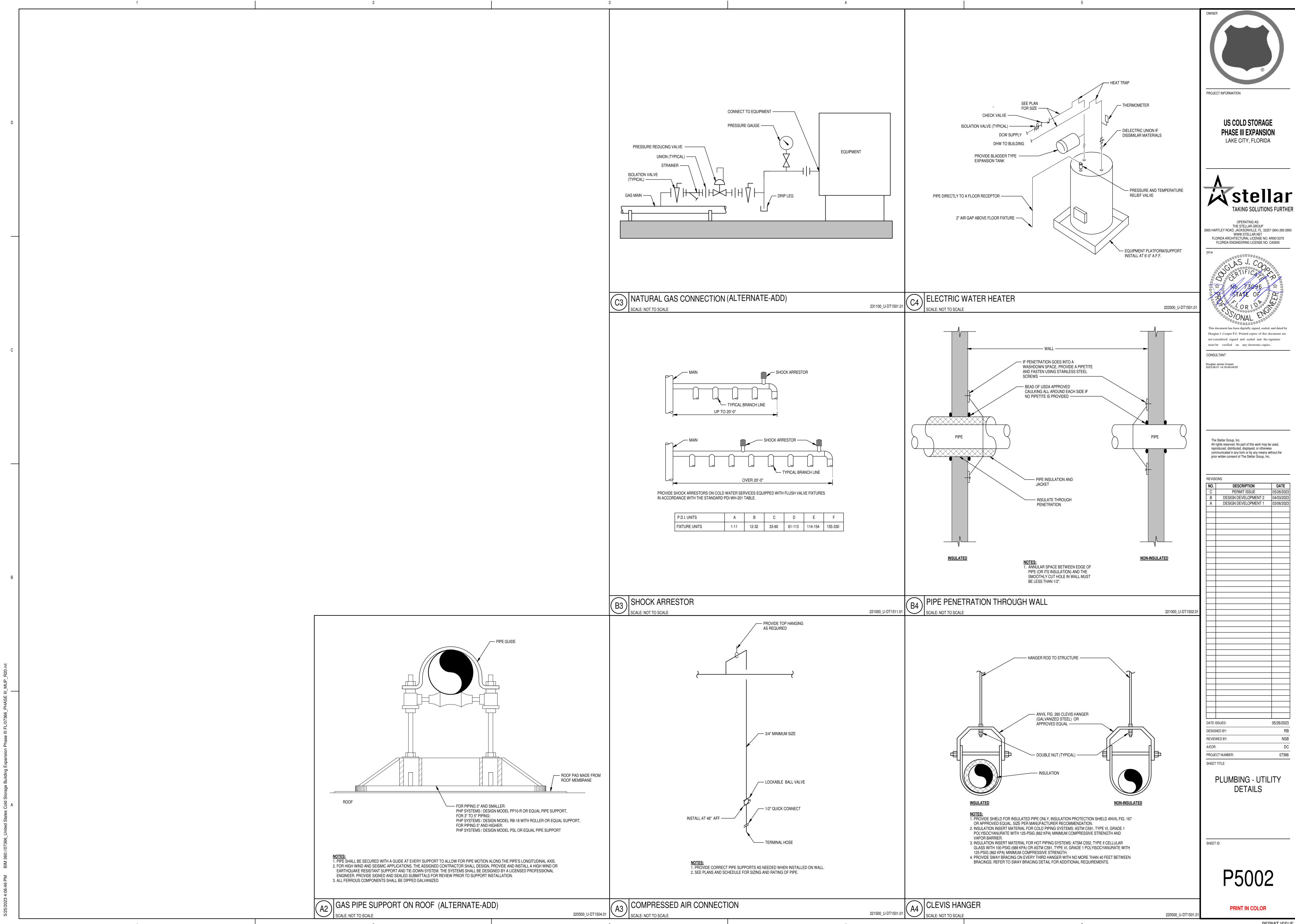












			PLUMBING FIXTURE SPECIFICATIONS					
				CC	NNECTION S	IZES		
MARK	MANUFACTURER	MODEL	DESCRIPTION	WASTE	VENT	CW	HW	COMMENTS
FD-1	ZURN	Z415-2NH-6B	BODY ASSEMBLY WITH ""TYPE B"" STRAINER (NO-HUB)					SIZE VARIES, SEE FLOOR PLANS
FS-1	ZURN	Z1901	12"X12"X 8" DEEP, CAST-IRON SINK, 1/2 GRATE, PERFORATED OUTLET STRAINER, NO HUB CONNECTION	4"				
L-1	AMERICAN STANDARD	LUCERNE 0355.012	WALL MOUNTED 20"x18" VITREOUS CHINA LAVATORY WITH 4" CENTERSET. UNIT TO BE PROVIDED WITH SLOAN OPTIMA MODEL EBF-650 POLIOSHED CHROME BATTERY OPERATED SENSOR FAUCET, SLOAN ETF-460-A CHROME PLATED STRAINER AND OUTLET TUBE, MCGUIRE CHROME PLATED 17 GA. CAST BRASS BODY ADJUSTABLE "P" TRAP WITH CLEANOUT, MCGUIRE 3/8" ANGLED LOOSE KEY STOPS WITH ANNEALED VERTICAL TUBES, CHROME PLATED BRASS ESCHUTCHEON PLATES AND ZURN CONCEALED ARM TYPE CARRIER, AND MCGUIRE MODEL PW2000WC OFFSET DRAIN AND SUPPLIES INSULATION KIT. LAVATORY COLOR TO BE WHITE. FAUCET TO BE RATED FOR A MAXIMUM FLOW OF 0.5 GPM.	2"	2"	1/2"	1/2"	
MS	FIAT	TSBC-6010	PRECAST TERRAZZO CORNER MOP BASIN, 24"x24"x12" WITH STAINLESS STEEL CAP. PROVIDE BRASS DRAIN WITH NICKEL BRONZE STRAINER, FIAT MODEL 830-AA CHROME PLATED FITTING WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAILHOOK, 3/4" HOSE THREAD ON SPOUT, FIAT MODEL 832-AA 30"x5/8" HOSE AND HOSE BRACKET AND POWER FIAT 889-CC 24" LONG x 3" WIDE STAINLESS STEEL MOP HANGER.	3"	2"	1/2"	1/2"	
S-1	ELKAY	CR3321	DOUBLE COMPARTMENT 33"x21" STAINLESS STEEL SINGLE LEDGE SELF RIMMING SINK. SINK TO BE CONSTRUCTED OF 18 GAUGE, TYPE 304 STAINLESS STEEL. SINK TO BE FURNISHED WITH ELKAY MODEL LK231BH5 FAUCET WITH SPRAY, ELKAY LK-35 STRAINER, MCGUIRE 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT, MCGUIRE MODEL H2166 1/2"x3/8" ANGLED LOOSE KEY STOPS WITH ANNEALED VERTICAL TUBES AND CHROME PLATED ESCUTCHEON PLATES. PROVIDE INSINKERATOR BADGER 5 1/2 hp GARBAGE DISPOSER.	1 1/2"	2"	1/2"	1/2"	
WC	AMERICAN STANDARD	AFWALL 3351.101	WHITE VIRTEOUS CHINA WALL-HUNG ENLONGATED TOILET RATED FOR 1.28 GPF. PROVIDE SLOAN OPTIMA 8111 EXPOSED SENSOR OPERATED BATTERY-POWERED FLUSH VALVE AND OLSONITE 95SS HEAVY DUTY PLASTIC SEAT, OPEN FRONT LESS COVER WITH CONCEALED CHECK AND SS HINGE POST.	4"	2"	1"		SEE ARCH. INTERIOR ELEVATIONS FOR MTG. HEIGHTS

			ELEGI	TRIC HOT	WATER	HEA	IER SC	CHEDULI					
		STORAGE	RECOVERY	ELEMENT	ELEMENT	GPM	L.W.T.	TEMP RISE	ELECTRICAL	RELIEF			
<i>MARK</i>	LOCATION	CAPACITY GAL.	GPH	KW	QUANTITY		F		V / ph / Hz	SIZE	MANUF.	MODEL	NOTE
EWH-1	JANITOR CLOSET	20	23@65F RISE	3.5	1	20	120	65	208/1/60	3/4"	AOSMITH	DEL-20-3.5	1,2,3,4,

1 HEATING ELEMENT TO BE NON-SIMULTANEOUS OPERATION. 2 PROVIDE TANK WITH 150 PSI MINIMUM WORKING PRESSURE.

3 PROVIDE DAYTON MODEL 3GVT3 2.1 GALLON EXPANSION TANK.

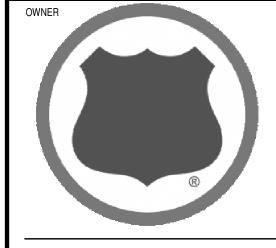
4 PROVIDE T&P RELIEF VALVE.

5 PROVIDE HOLDRITE #30SWHP-4M WALL MOUNTED QUICK STAND (RATED FOR 300 LB.)

	PUMP SCHEDULE															
EE SPEC 22142	9 - SUMP PUMPS FO	R ADDITIONAL REQUIREMENT	TS.													
MARK	LOCATION	SERVICE	TYPE	FLUID	FLOW (GPM)	RPM	PUMP HEAD	NPSHR	MIN EFF AT FULL	ELECTR	RICAL	WEIGHT (LBS)	BASIS OF DES	BIGN	NOTES	ACCESSORIES
IVIANN	LOCATION	SERVICE	ITFE	FLUID	FLOW (GPIVI)	ULINI	(FT)	(FT)	FLOW	V/PH/HZ	HP	WEIGHT (LDS)	MANUFACTURER	MODEL] NOIES	ACCESSONIES
P-1	CA ROOM	CA ROOM DRAINAGE	SUBMERSIBLE-CENTRIFUGAL	60 F WATER	25	1,350	35	20		115/1/60	0.5	56	MYERS-PENTAIR	MW-BP	NOTE 1	NOTE 1

NOTES:
1. SUMP PUMP PACKAGE INCLUDES TETHERED AUTOMATIC FLOAT SWITCH, 20 FT. 16/3 POWER CORD AND HIGH WATER ALARM. INSTALL IN SUMP PIT.

MARK	LOCATION	DESCRIPTION	
AIR COMPRESSOR	COMPRESSOR	INGERSOLL-RAND OIL-INJECTED ROTARY SCREW VARIABLE-SPEED COMPRESSOR	
AC-1(PRIMARY), AC-2(BACKUP)	ROOM	MODEL RS45i-A110, 45 KW (60 HP)	
		CAPACITY: 321 CFM MAXIMUM (163 CFM MINIMUM) AT 110 PSIG	
		FACTORY FILLED WITH ULTRACOOLANT	
		HEAVY-DUTY HIGH-GRADE COMPRESSOR OIL	
		ELECTRICAL: 230/460/3, NEMA PREMIUM MOTOR WITH VSD (VFD): 45 KW, 60 HP. 85 FLA	
		DIMENSIONS: 95.79"W x 49.21" D x 80.00" H, WEIGHT: 4050 LBS	
		SOUND PRESSURE LEVEL 74dBA	
		PROVIDE TEFC/HIGH EFFICIENCY INVERTER DUTY MOTOR	
		PROVIDE INTEGRATED VSD DRIVE	
		PROVIDE LOW SOUND ENCLOSURE	
		PROVIDE XE-90m MICROPROCESSOR CONTROLLER	
		PROVIDE INTEGRATED PHASE MONITOR	
		PROVIDE STD. CONDENSATE DRAIN	
		2" DISCHARGE OUTLET (FEMALE)	
		ACCESSORIES	
		1. DISCONNECT SHALL BE PROVIDED AND WIRED BY THE ELECTRICAL CONTRACTOR.	
		2. INCLUDE THERMOMETER ON COMPRESSED AIR OUTLET	
		3. AIRGUARD REMOTE COMPRESSOR MONITORING	
DESICCANT AIR DRYER	COMPRESSOR	INGERSOLL-RAND TWIN TOWER HEATLESS DESICCANT AIR DRYER, MODEL HLA500, EMS, 3V, LDP	
DESICOANT AIN DATEN (DD-1) (DD-2)	ROOM	250 SCFM @ -100F, 74 SCFM PURGE,	
DD 1) (DD 2)	TIOOW		
		PRESSURE DEWPOINT: 39° F AT INLET CONDITIONS LISTED ABOVE	
		R404a REFRIGERANT	
		ELECTRICAL: 115 /1/ 60	
		DIMENSIONS: 38.6"L x 56.5"W x 82.52"H, WEIGHT: 1562.0 LBS	
		DISCONNECT SHALL BE PROVIDED AND WIRED BY THE ELECTRICAL CONTRACTOR.	
		1-1/2" NPT AIR INLET AND OUTLET COMPRESSED AIR CONNECTIONS	
		CONDENSATE DRAIN WITH AUTODRAINER AND NO LOSS DRAIN VALVE	
		PROVIDE THERMOMETER ON COMPRESSED AIR OUTLET	
		A005000BIE0	
		ACCESSORIES	
		1. PRE-FILTER MODEL DD780 (833 CFM). FILTER NEEDS VERIFIED FOR PROPER FX 17 DRYER SIZE.	
		2. AFTER-FILTER MODEL DD780 (833 CFM). FILTER NEEDS VERIFIED FOR PROPER FX 17 DRYER SIZE.	
		3. DISCONNECT SHALL BE PROVIDED AND WIRED BY THE ELECTRICAL CONTRACTOR.	
COMPRESSED AIR CONTROL	COMPRESSOR ROOM	PROVIDE AIRGUARD REMOTE COMPRESSOR CELLULAR/SATELLITE/ETHERNET COMMUNICATION CAPABILITY.	
SYSTEM		PACE PNEUMATIC FLOW CONTROLLER OPTIMIZER	
DIL SEPARATOR	COMPRESSOR ROOM	POLYSEP PSG-30 OIL-WATER SEPARATOR 390 CFM(MAX.), 10 PPM, 3/4" NPT OUTLET (SIZED FOR 2 AIR COMPRESSORS)	
201100000 AID DE051/50	OOMBDEOOOD DOOM	CON CALLON CARACITY - MERTICAL TANK ONE WET ONE DRY	
COMPRESSED AIR RECEIVER	COMPRESSOR ROOM	200 GALLON CAPACITY , , VERTICAL TANK, ONE WET, ONE DRY	
CAR-1(PRIMARY) CAR-2 (BACKUP)	<u>'</u>	SAMUEL PRESSURE VESSEL GROUP CRN M1355.56012348Y97N	
		ASME (SECTION VIII DIV 1) RATED PRESSURE VESSEL, 200 PSI (AT 400 F) MAWP MAXIMUM ALLOWABLE WORKING PRESSURE	
		MDMT MINIMUM DESIGN METAL TEMPERATURE -20 F AT 165 PSI	
		TANK DIMENSIONS 36" DIAMETER X 72" HIGH	
		TANK WEIGHT DRY 505 POUNDS	
		PIPING CONNECTIONS	
		PNLD II-PNEUMATIC NO LOSS DRAIN VALVE KIT 9296 CFM. 135 PSI, 1/2" TANK DISCHARGE	
		SAFETY RELIEF VALVE, 1" NPT RATED FOR 125PSI	
		PRESSURE GAUGE 1/4" PORT SIZE RATED FOR 200PSI LOWER MOUNT	
		ACCESSORIES	
		1. 4" PRESSURE GAUGE WITH ACRYLIC LENS (200 PSI RANGE)	
		2. PNEUMATIC NO LOSS DRAIN VALVE KIT	
		3. SAFETY RELIEF VALVE SET FOR 125 PSIG RELIEF FOR WET RECEIVER TANK	
	1		

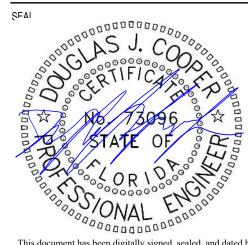


PROJECT INFORMATION

US COLD STORAGE PHASE III EXPANSION LAKE CITY, FLORIDA



OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930



This document has been digitally signed, sealed, and dated by Douglas J. Cooper P.E. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CONSULTANT

The Stellar Group, Inc.
All rights reserved. No part of this work may be used, reproduced, distributed, displayed, or otherwise communicated in any form or by any means without the prior written consent of The Stellar Group, Inc.

NO.	DESCRIPTION	DATE
С	PERMIT ISSUE	05/26/2023
В	DESIGN DEVELOPMENT 2	04/03/2023
Α	DESIGN DEVELOPMENT 1	03/06/2023
		_
-		
-+		_
-		
DATE IS:	SUED:	05/26/2023

PLUMBING - UTILITY SCHEDULES

PROJECT NUMBER:

600 PSI, BRONZE BODY, FULL

PORT, 316 SS BALL & STEM,

RPTFE SEAT & PACKING,

SOLDER ENDS,

APOLLO 77CLF 240 SERIES

600 PSI, BRONZE BODY, FULL

PORT, 316 SS BALL & STEM,

RPTFE SEAT & PACKING,

SOLDER ENDS,

APOLLO 77CLF 240 SERIES

APPLICABLE

APPLICABLE

U	ILLIT FIFE SUR	EDULE
	STRAINER	GAU

APPLICABLE

CLASS 125, Y-PATTERN, BRONZE

BODY & INTEGRAL SEAT,

SCREWED CAP, MSS-SP-80,

SOLDER END CONNECTIONS.

APOLLO MODEL 161S-LF

CLASS 125, Y-PATTERN, BRONZE

BODY & INTEGRAL SEAT,

SCREWED CAP, MSS-SP-80,

SOLDER END CONNECTIONS.

APOLLO MODEL 161S-LF

	STRAINER	GAUGES	INSULATION	
T	CLASS 125 Y-PATTERN BRONZE	GENERAL: NO GLASS; PROVIDE ACRYLIC	PREFORMED CLOSED CELL FLEXIBLE ELASTOMERIC	PΙ
	BODY, STRAIGHT THREAD CAP,	LENS. WHITE BACKGROUND WITH BLACK	ASTM C534 GRADE 3 (NON-HALOGENS), TYPE I	
l	20 MESH 304 SS SCREEN,	NUMERALS. PLUS OR MINUS 1%	EQUAL TO ARMACELL ARMAFLEX NH, AEROFLEX USA	PΙ
l	SOLDER END CONNECTIONS,	ACCURACY, INSTALL AS DETAILED.	AEROCEL OR K-FLEX USA ECO. ARMAFLEX AP IS NOT	
l	TITAN YS 56-BZ	PRESSURE: BRONZE BOURDON TUBE,	ACCEPTABLE. SEE NOTE "H". USE ADHESIVE	PΙ
l		4" DIAMETER, 304SS CASE, PSI SCALE,	RECOMMENDED BY MANUFACTURER. SEAL ALL JOINTS	
l		RANGE 1.5 TIMES WORKING PRESSURE.	AND SEAMS VAPOR-TIGHT WITH PRESSURE-SENSITIVE	PΙ
l		TEMPERATURE: ALCOHOL FILLED TUBE,	TAPE. COVER DCW INSULATION WITH 6 MIL VAPOR	
l		7" ALUMINUM CASE, DEGREES F	BARIER, DOW SARAN 560.	PΙ
1		1		1

4" DIAMETER, 304SS CASE, PSI SCALE, RECOMMENDED BY MANUFACTURER. SEAL ALL JOINTS

SEE NOTE F.

RANGE 1.5 TIMES WORKING PRESSURE. AND SEAMS VAPOR-TIGHT WITH PRESSURE-SENSITIVE PIPE SIZE 2-1/2' to 6":

TAPE. INSULATE IN REFRIGERATED SPACES ONLY,

		NOTES AT BOTTO	MC	
		OF SCHEDULE)		
GAUGES	INSULATION	,		JACKET
GENERAL: NO GLASS; PROVIDE ACRYLIC	PREFORMED CLOSED CELL FLEXIBLE ELASTOMERIC	PIPE SIZE 3/4" AND LESS:	1" (NOTE A)	PROCESS SPACE:
LENS. WHITE BACKGROUND WITH BLACK	ASTM C534 GRADE 3 (NON-HALOGENS), TYPE I			PLAIN 304SS JACKET, 0.015" THICK,
NUMERALS. PLUS OR MINUS 1%	EQUAL TO ARMACELL ARMAFLEX NH, AEROFLEX USA	PIPE SIZE 1":	1" (NOTE A)	WITH 3/4" BANDS, 304SS.
ACCURACY, INSTALL AS DETAILED.	AEROCEL OR K-FLEX USA ECO. ARMAFLEX AP IS NOT			NON-PROCESS SPACE (NOTE G):
PRESSURE: BRONZE BOURDON TUBE,	ACCEPTABLE. SEE NOTE "H". USE ADHESIVE	PIPE SIZE 1-1/4" to 2":	1.5" (NOTE A)	WHITE PVC JACKET, 30 MIL THICK,
4" DIAMETER, 304SS CASE, PSI SCALE,	RECOMMENDED BY MANUFACTURER. SEAL ALL JOINTS			SOLVENT-WELDED JOINTS.
RANGE 1.5 TIMES WORKING PRESSURE.	AND SEAMS VAPOR-TIGHT WITH PRESSURE-SENSITIVE	PIPE SIZE 2-1/2' to 6":	1.5" (NOTE A)	OUTDOORS:
TEMPERATURE: ALCOHOL FILLED TUBE,	TAPE. COVER DCW INSULATION WITH 6 MIL VAPOR			EMBOSSED ALUMINUM JACKET,
7" ALUMINUM CASE, DEGREES F	BARIER, DOW SARAN 560.	PIPE SIZE 8" AND GREATER:	1.5" (NOTE A)	0.016" THICK, WITH 0.007" THICK
				ALUMINUM BANDS.
GENERAL: NO GLASS; PROVIDE ACRYLIC	PREFORMED CLOSED CELL FLEXIBLE ELASTOMERIC	PIPE SIZE 3/4" AND LESS:	1" (NOTE A,B)	PROCESS SPACE:
LENS. WHITE BACKGROUND WITH BLACK	ASTM C534 GRADE 3 (NON-HALOGENS), TYPE I			PLAIN 304SS JACKET, 0.015" THICK,
NUMERALS. PLUS OR MINUS 1%	EQUAL TO ARMACELL ARMAFLEX NH, AEROFLEX USA	PIPE SIZE 1":	1" (NOTE A, B)	WITH 3/4" BANDS, 304SS.
ACCURACY, INSTALL AS DETAILED.	AEROCEL OR K-FLEX USA ECO. ARMAFLEX AP IS NOT			NON-PROCESS SPACE:
		l		f

INSULATION THICKNESS (REFER TO INSULATION

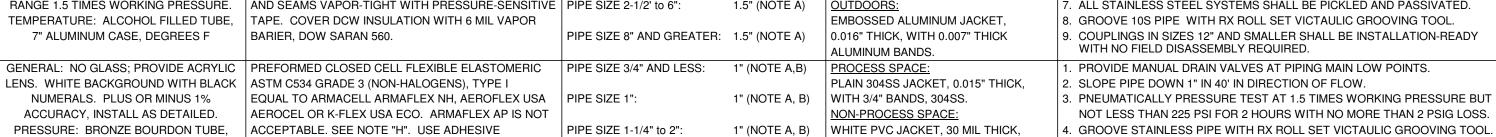
PIPE SIZE 8" AND GREATER: 1" (NOTE A, B)

SOLVENT-WELDED JOINTS.

NOT APPLICABLE.

1" (NOTE A, B) OUTDOORS:

	NOTES
	1. PROVIDE MANUAL DRAIN VALVES AT PIPING MAIN LOW POINTS.
CK,	2. SLOPE PIPE DOWN 1" IN 40' IN DIRECTION OF FLOW.
	3. HYDROSTATICALLY PRESSURE TEST AT 1.5 TIMES WORKING PRESSURE BUT
<u>:</u>	NOT LESS THAN 225 PSI FOR 2 HOURS WITH NO MORE THAN 2 PSIG LOSS.
K,	5. ALL COMPONENTS SHALL COMPLY WITH NSF-372 (LEAD-FREE).
	6. ALL COMPONENTS SHALL COMPLY WITH NSF-61 (POTABLE WATER SERVICE).
	7. ALL STAINLESS STEEL SYSTEMS SHALL BE PICKLED AND PASSIVATED.
	8. GROOVE 10S PIPE WITH RX ROLL SET VICTAULIC GROOVING TOOL.
	 COUPLINGS IN SIZES 12" AND SMALLER SHALL BE INSTALLATION-READY WITH NO FIELD DISASSEMBLY REQUIRED.



WITH NO FIELD DISASSEMBLY REQUIRED.
1. PROVIDE MANUAL DRAIN VALVES AT PIPING MAIN LOW POINTS.
2. SLOPE PIPE DOWN 1" IN 40' IN DIRECTION OF FLOW.
3. PNEUMATICALLY PRESSURE TEST AT 1.5 TIMES WORKING PRESSURE BUT
NOT LESS THAN 225 PSI FOR 2 HOURS WITH NO MORE THAN 2 PSIG LOSS.
4. GROOVE STAINLESS PIPE WITH RX ROLL SET VICTAULIC GROOVING TOOL.
5. COUPLINGS IN SIZES 12" AND SMALLER SHALL BE INSTALLATION-READY
WITH NO FIELD DISASSEMBLY REQUIRED.

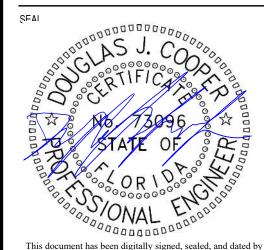
LAKE CITY, FLORIDA
A

US COLD STORAGE

PHASE III EXPANSION

PROJECT INFORMATION

THE STELLAR GROUP 2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900 WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370



FLORIDA ENGINEERING LICENSE NO. CA5930

This document has been digitally signed, sealed, and dated by Douglas J. Cooper P.E. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CONSULTANT

The Stellar Group, Inc. All rights reserved. No part of this work may be used, reproduced, distributed, displayed, or otherwise communicated in any form or by any means without the prior written consent of The Stellar Group, Inc.

NO.	DESCRIPTION	DATE
C	PERMIT ISSUE	05/26/20
В	DESIGN DEVELOPMENT 2	04/03/20
A	DESIGN DEVELOPMENT 1	03/06/20
A	DESIGN DEVELOPMENT I	03/06/20
-		
-+		
-		
\dashv		
-+		
-+		
-+		

DATE ISSUED:	05/26/2023
DESIGNED BY:	RB
REVIEWED BY:	NB
A/EOR:	DC
PROJECT NUMBER:	07366
SHEET TITLE	

PLUMBING - UTILITY SCHEDULES

STELLAR CODE 3H			2-1/2" AND LARGER			
	HORIZO	NTAL PIPE SU	JPPORT SPAC	ING (FT)		
PIPE			PIPE SIZE			

PIPE

SOLDER

JOINTS

COPPER

PIPE

SOLDER

JOINTS

TYPE L

PER

ASTM B88

HARD COPPER

TYPE L

PER

ASTM B88

DHW AT 150 F SMALLER

150

2-1/2" AND

LARGER

2" AND

SMALLER

DHWR

STELLAR CODE

COMPRESSED

AIR - EQUIP.

SUPPLY AND CONNECTION

A. FOR PIPING OUTDOORS OR REFRIGERATED SPACES (LESS THAN 38 F), PROVIDE ELECTRICAL HEAT TRACING AT 5 WATTS PER FOOT WITH TEMPERATURE CONTROLLER. B. INSULATION AND HEAT TRACING NOT REQUIRED FOR COMPRESSED AIR SYSTEMS WITH AIR DRYER WHICH SUPPRESSES THE DEWPOINT TEMPERATURE BELOW THE FREEZER OR COOLER SPACE OPERATING TEMPERATURE.

HARD COPPER 95-5 TIN-ANTIMONY SOLDER, ASTM B62,

GR. 95 TA. LEAD FREE SOLDER.

ASTM B16.22 WROUGHT COPPER FITTINGS,

CAST COPPER ALLOY SOLDER JOINT

FITTINGS PER ASTM B16.18.

95-5 TIN-ANTIMONY SOLDER, ASTM B62,

GR. 95 TA. LEAD FREE SOLDER.

ASTM B16.22 WROUGHT COPPER FITTINGS,

CAST COPPER ALLOY SOLDER JOINT

FITTINGS PER ASTM B16.18.

	PLUMBING DRAINAGE PIPE SCHEDULE							
SYSTEM	DRAWING SYMBOL	DESIGN PRESSURE	SLOPE	SYSTEM DESCRIPTION	PIPE SPECIFICATION	JOINTS AND FITTINGS	TESTING	NOTES
SANITARY WASTE AND VENT PIPING	SW, SV	GRAVITY	LESS THAN 3": 1/4" PER FT. 3" AND LARGER: 1/8" PER FT.	PVC	SCHEDULE 40 PVC TYPE DWV PIPE AND FITTINGS CONFORMING TO ASTM D-1784, ASTM D-1785, ASTM D-2665	SOLVENT WELD WITH PRIMER CONFORMING TO ASTM STANDARDS. SOLVENT CEMENT SHALL SHALL CONFORM TO ASTM D-2564.	TEST PIPING PER LOCAL OR STATE CODE OR BY MEANS OF WATER TEST WITH 10 FT. HEIGHT OR 4.3 PSI	 BEDDING, COMPACTION AND BACKFILL SHALL CONFORM TO LOCAL AND STATE CODES AND MANUFACTURERS RECOMMENDATIONS. THE USE OF FOAM CORE TYPE PIPE AND FITTINGS IS NOT PERMITTED. THE USE OF PVC DWV PIPING IN PLENUM AREAS IS PROHIBITED UNLESS PIPING IS INSULATED TO MEET OR EXCEEDS SMOKE AND FLAME SPREAD REQUIREMENTS AS DETAILED IN NOTES 3 AND 4 BELOW INSULATE ALL HORIZONTAL DRAINS IN PLENUM CEILINGS WITHIN BUILDING WITH PREFORMED FLEXIBLE ELASTOMERIC PIPE INSULATION: COMPLY WITH ASTM C-534, TYPE I, AND ASTM E-84 FOR FLAME SPREAD RATE OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS, FOR 1" THICKNESS. K VALUE OF 0.30 AT 75 F MEAN TEMPERATURE; EQUAL TO AP ARMAFLEX, CLOSED CELL TUBE AND PIPE INSULATION. UTILIZE ADHESIVE RECOMMENDED BY INSULATION MANUFACTURER FOR JOINTS AND SEAMS. PROVIDE A PVC JACKET OVER INSULATION IN NOTE 5 AS FOLLOWS: PVC JACKET 30 MIL THICK, UV RESISTANT WHITE IN COLOR. PREFABRICATED SHAPES FOR FITTINGS, JOINTS, VALVES, ETC. USE ADHESIVE RECOMMENDED BY THE JACKET MANUFACTURER. SOLVENT WELD ALL JOINTS AND SEAMS. LAP SEAMS 1-1/2", LAP JOINTS 3". INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.COMPLY WITH ASTM C-534, TYPE I, AND ASTM E-84 FOR FLAME SPREAD RATE OF 25 OR LESS AND SMOKE DEVELOPED RATING OF 50 OR LESS
PROCESS WASTE AND VENT PIPING	PW, PV	GRAVITY	LESS THAN 3": 1/4" PER FT. 3" AND LARGER: 1/8" PER FT.	CPVC	CPVC SCHEDULE 40 PIPE AND FITTINGS CONFORMING TO ASTM D-2618, ASTM F-441, ASTM D-3311 AND NSF STANDARD 14.	SOLVENT WELD WITH PRIMER CONFORMING TO ASTM SOLVENT CEMENT SHALL CONFORM TO ASTM F-493 ST. STL. TO CPVC HEAVY DUTY NO-HUB COUPLING (IPS x IPS CLAMP JOINT) WITH SHIELDED FKM (FLUROCARBON AND VITON) ELASTOMER SUCH AS: LABWASTE P093, SPEARS PIPE LAB WASTE OR EQUAL. EXAMPLES OF ELASTOMERS NOT ACCEPTABLE (BUT NOT LIMITED TO) NEOPRENE AND EPDM.	TEST PIPING USING REQUIREMENTS OF LOCAL OR STATE CODE OR BY MEANS OF THE WATER TEST WITH A WATER HEIGHT OF 10'-0" OR 4.3 PSI.	 BEDDING, COMPACTION AND BACKFILL SHALL CONFORM TO LOCAL AND STATE CODES AND MANUFACTURERS RECOMMENDATIONS. FOR ABOVE GROUND WASTE AND VENTS IN PROCESS AREAS PIPE SPECIFICATION PS-7h(2) SHALL BE USED. THE USE OF CPVC PIPING IN PLENUM AREAS IS PROHIBITED UNLESS PIPING MEETS OR EXCEEDS SMOKE AND FLAME SPREAD REQUIREMENTS. USE CAST IRON WASTE AND VENT PIPING LOCATED IN RETURN AIR PLENUMS. NON-PRESSURIZED DRAINING SERVICE RATE TO 220F DEGREES.

WC 4" SW DROP 2" SV RISE L-1 ——— 2" SW DROP 2" SV RISE 4" SV RISE TO V.T.R. ——— 4" SW DROP 2" SV RISE 4" SV RISE TO V.T.R. 2" SW DROP 2" SV RISE 2" SW DROP 2" SV RISE <u>FD-1</u> 2"SW 4" SW DROP 2" SV RISE 2" SW DROP 2" SV RISE 4" SW BELOW SECOND FLOOR — 2" SW DROP 2" SV RISE EXG. 4" SV TO V.T.R. WC 4" SW DROP 2" SV RISE 4" SW DROP 2" SV RISE PROVIDE NEW 4" WYE, CONNECT TO STACK 4" SW BELOW SECOND FLOOR — EXG. TOILET ROOM AT FIRST FLOOR ___ EXG. 4" SW US COLD STORAGE
PHASE III EXPANSION
LAKE CITY, FLORIDA

STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. CA5930

SFAI

This document has been digitally signed, sealed, and dated by
Douglas J. Cooper P.E. Printed copies of this document are
not considered signed and sealed and the signature
must be verified on any electronic copies.

CONSULTANT

Douglas James Cooper
2023.06.01 14:17:07-0400

The Stellar Group, Inc.
All rights reserved. No part of this work may be used, reproduced, distributed, displayed, or otherwise communicated in any form or by any means without the prior written consent of The Stellar Group, Inc.

DATE ISSUED:

DESIGNED BY:

REVIEWED BY:

REVIEWED BY:

NSB

AEOR:

DC

PROJECT NUMBER:

07366

SHEET TITLE

PLUMBING RISER DIAGRAMS

CLIFET ID

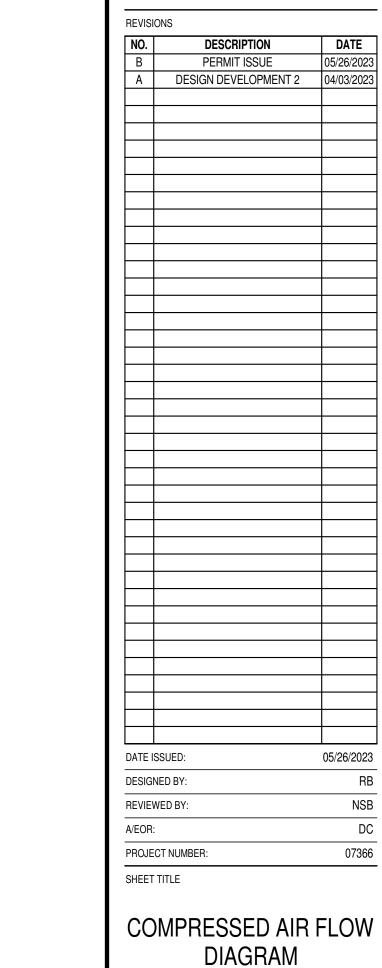
P7001

PRINT IN COLOR

A3 DRAINAGE WASTE VENT RISER DIAGRAM - AREA 2
SCALE: NOT TO SCALE

NORMALIZED* COMPRESSED AIR DEMAND TABLE						
	EQUIP.	AIR USAGE	CONNECT-	% SIMULT.		
ZONE TYPE	QTY	(scfm)	DROPS QTY	SYSTEM USAGE	TOTAL (SCFM)	
3 STRANDLIFT @ SQUARING ARMS	3	10.64	3	6.94%	31.91 SCFM	
AIR CHAIN BRAKE	5	2.31	5	2.51%	11.54 SCFM	
CDLRS SQUARING ARMS	2	5.32	2	2.31%	10.63 SCFM	
RAT	19	0.01	19	.04%	.19 SCFM	
SHUTTLE	1	0.24	1	.05%	.24 SCFM	
WRAPPER	3	8.33	3	5.44%	25.00 SCFM	
LABELLER	5	35	5	38.08%	175.00 SCFM	
FIRE PROTECTION PREACTION VALVE	8	20	1	34.81%	160.00 SCFM	
FIRE PROTECTION DRY VALVE	1	45]_	9.79%	45.00 SCFM	
SYSTEM TOTAL 459.51 SCF						
EQUIPMENT REQUIRES A MAX. OF 90 PSI						
VALUES AT LOCATIONS ARE NOT INSTANTANEOUS PEAK FLOW						
* NODAMALIZED THE INDIVIDUAL FOL			DENACNIT OV	ED A MAINUITE		





COMPRESSED AIR FLOW DIAGRAM

AC DRAIN AIR COMPRESSOR AC DRAIN AIR COMPRESSOR AC DRAIN AIR COMPRESSOR AC DRAIN AR COMPRESSOR DRAIN AR COMPRESSOR AC DRAIN AR COMPRESSOR AC DRAIN AR COMPRESSOR AC DRAIN AR COMPRESSOR	PROCECUTOR OF THE CASE OF THE
B1 COMPRESSED AIR FLOW DIAGRAM SCALE: INOT TO SCALE	A AIR

PERMIT ISSUE

05/26/2023

07366

