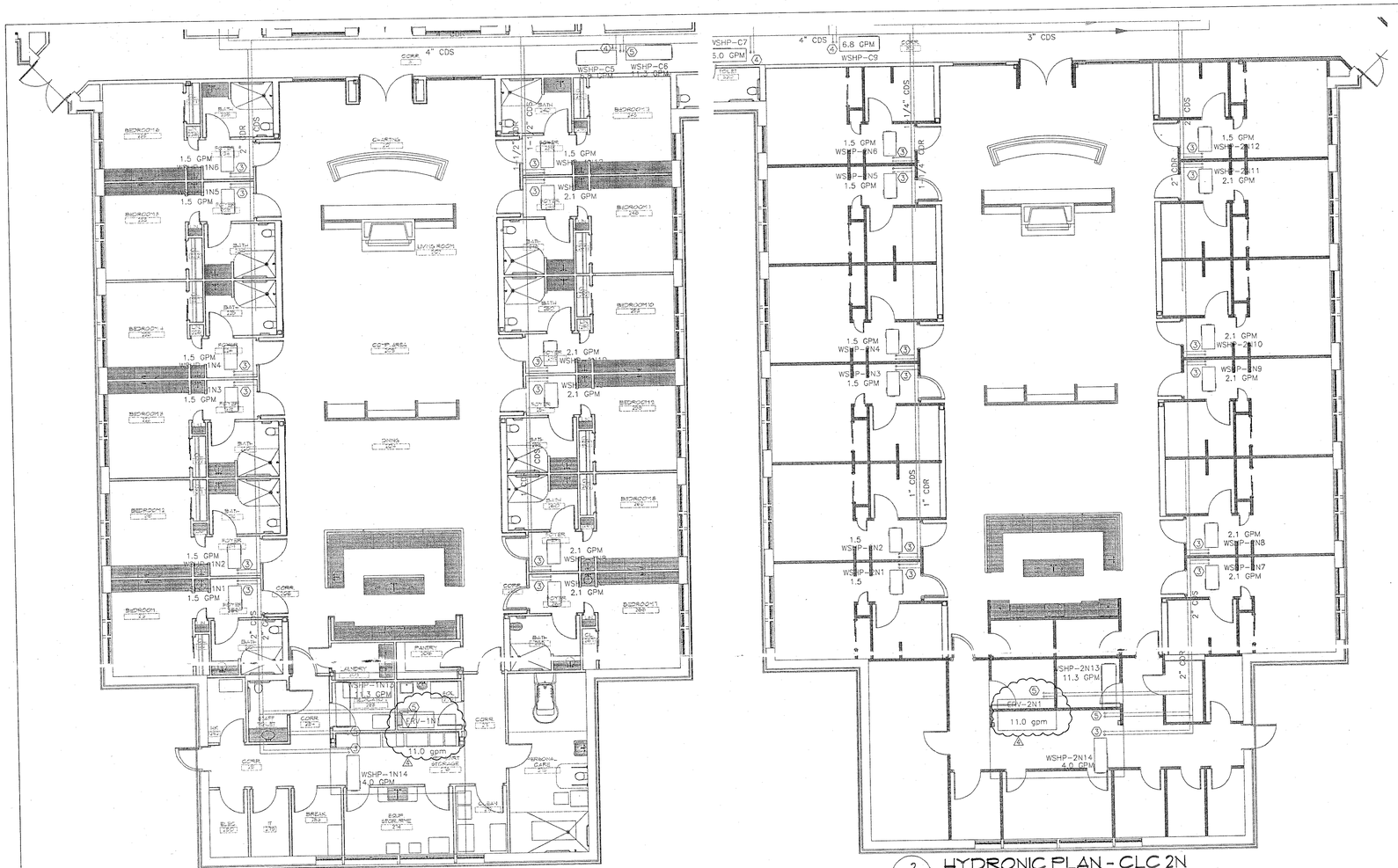
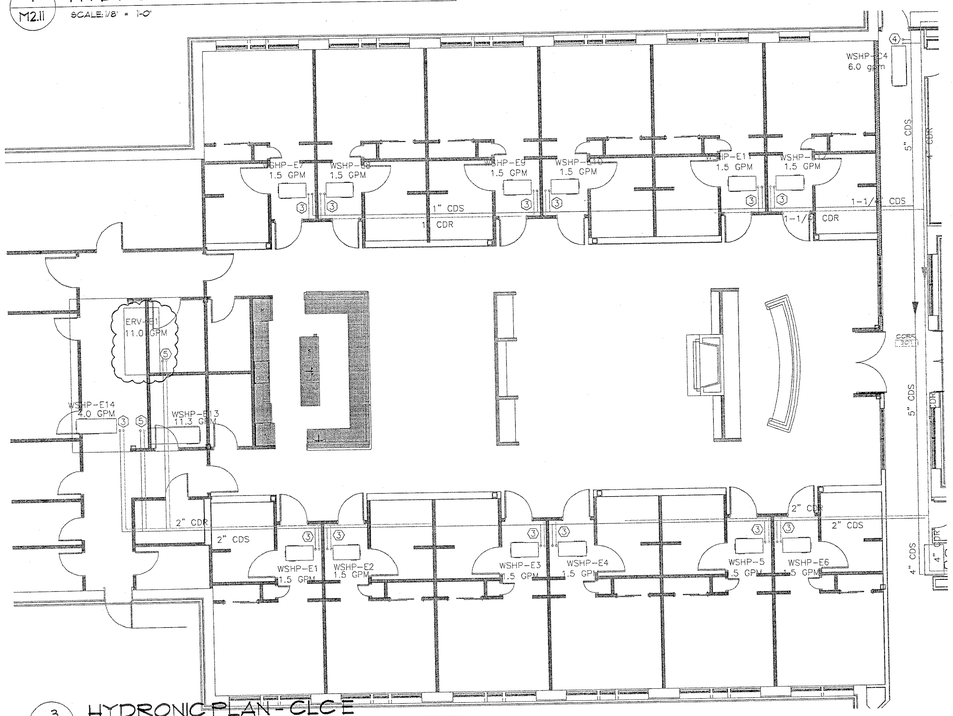


1 M2.11 HYDRONIC PLAN - CLC 1N

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

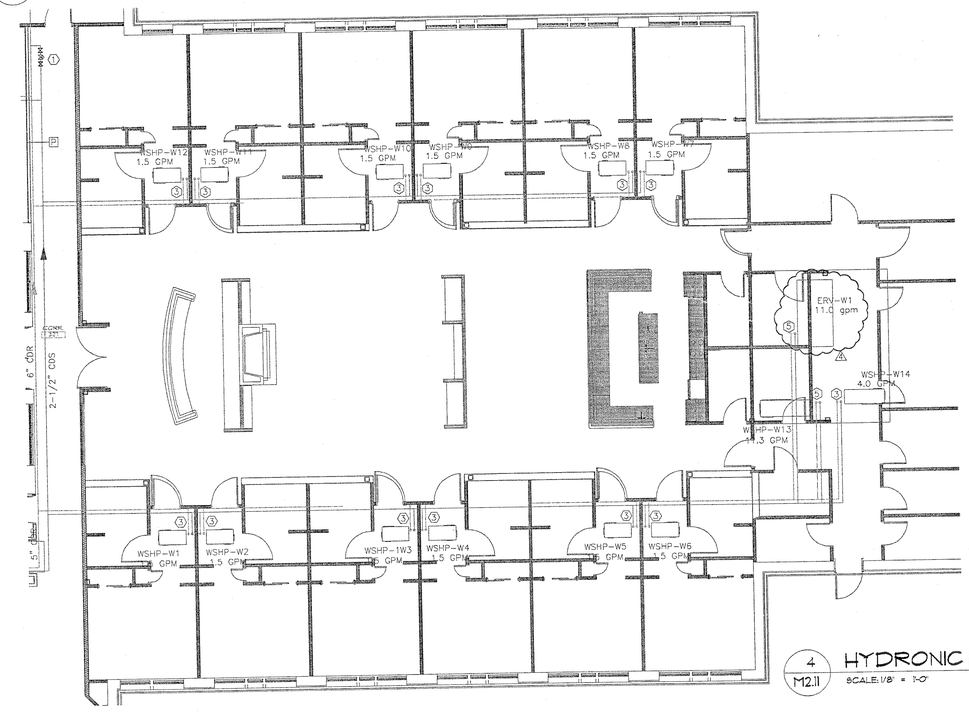
2 M2.11 HYDRONIC PLAN - CLC 2N

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



3 M2.11 HYDRONIC PLAN - CLC E

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



4 M2.11 HYDRONIC PLAN - CLC W

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

MECHANICAL KEY NOTES:

1. PROVIDE 2-WAY 2-1/2" BYPASS VALVE ON THE PRIMARY LOOP TO ENSURE MINIMUM SYSTEM WATERFLOW IS MAINTAINED DURING PERIODS OF LOW HVAC DEMAND AS THE VFD SPEED IS REDUCED. A TOTAL MINIMUM SYSTEM FLOW OF 150 GPM IS REQUIRED FOR TURBULENT FLOW IN THE GHX, WHICH IS NEEDED FOR EFFECTIVE HEAT TRANSFER. VALVE TO BE MODULATED BY THE BAS IN RESPONSE TO THE NEARBY DIFFERENTIAL PRESSURE SENSOR IN THE CONDENSER WATER MAINS.
2. ROUTE CONDENSER WATER PIPES BELOW GRADE AT THE CORRIDOR LOBBIES. REFER TO UNDERGROUND PIPING SPECS.
3. 3/4" BRANCH TO WHSP. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.
4. 1" BRANCH TO WHSP OR ERV. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.
5. 1-1/4" BRANCH TO WHSP OR ERV. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.

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TRINKA DAVIS VETERAN'S VILLAGE

CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/5/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/4/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
4/28/11	REVISION 1

PROJECT NO: 229.0.00

DATE: FEB 21TH, 2011

DRAWING TITLE: HYDRONIC PLAN - CLC8

M2.11

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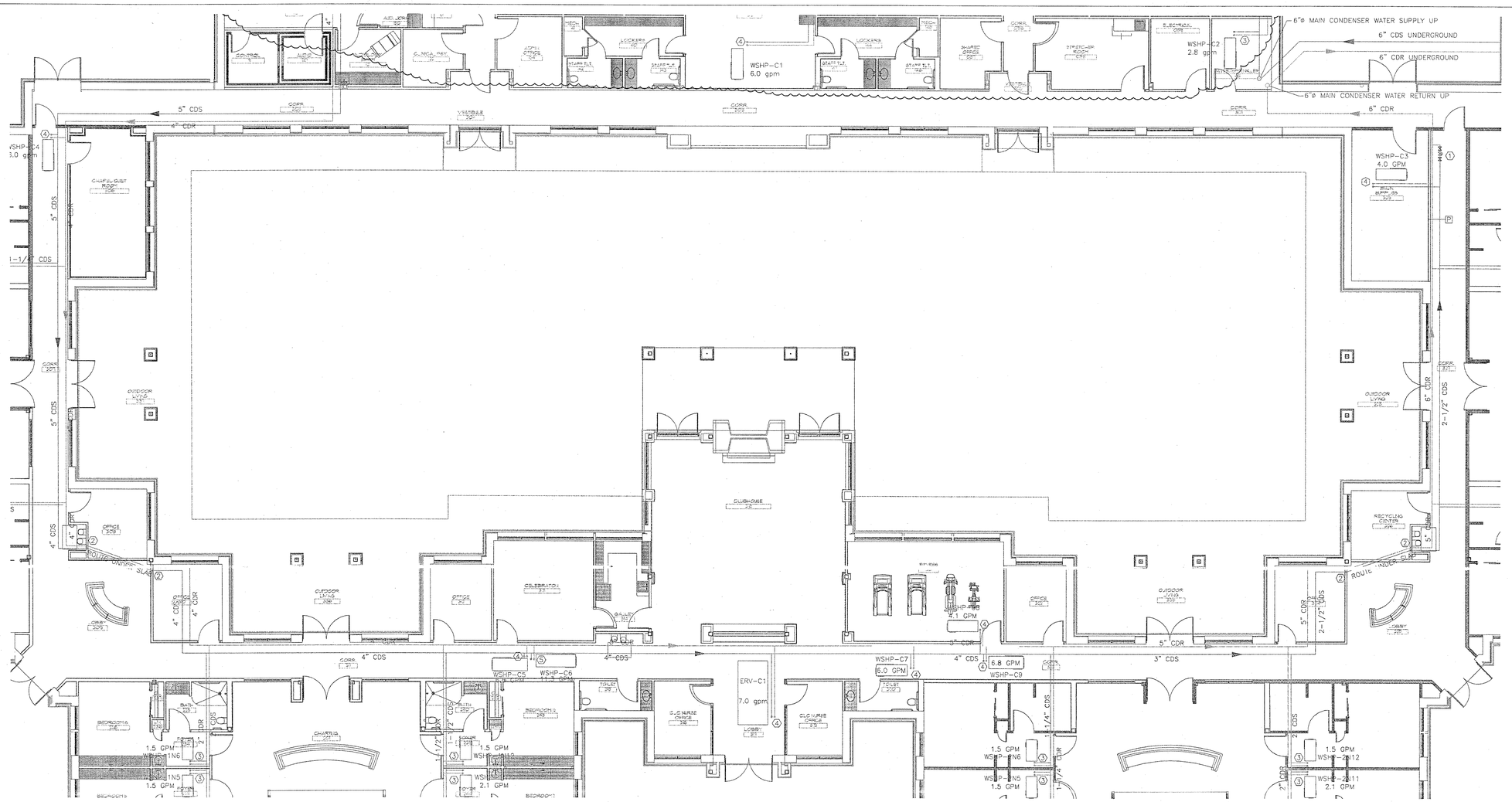
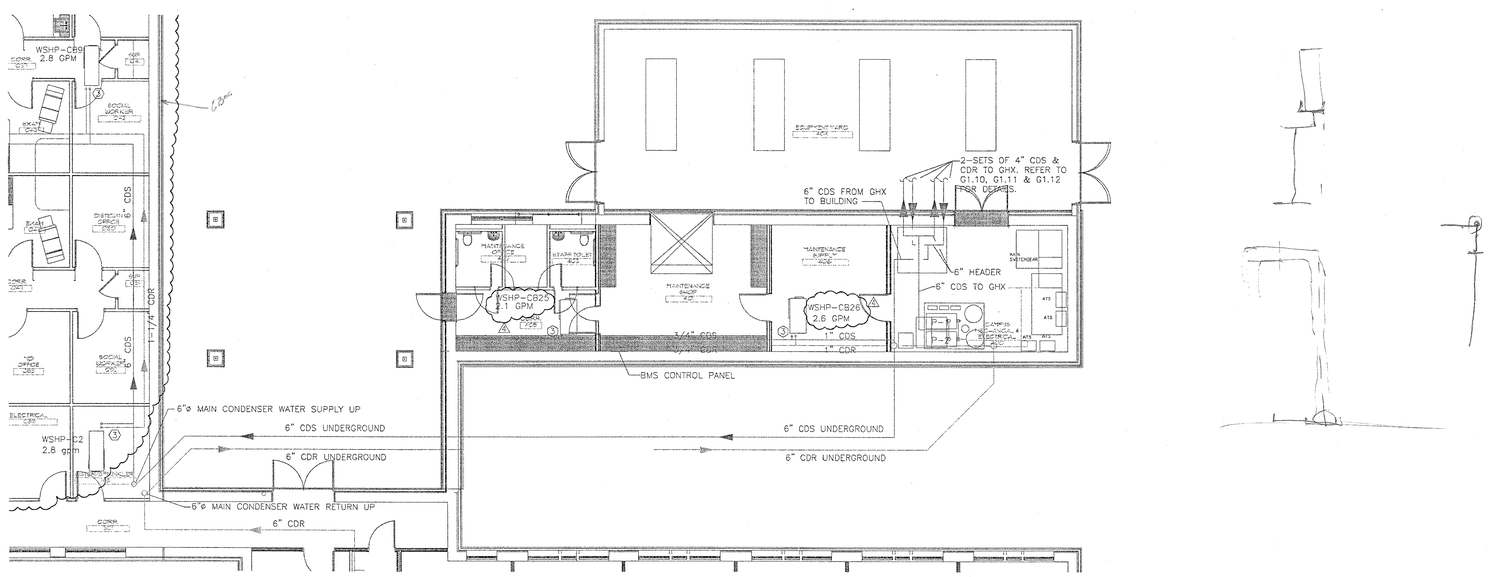


1 M2.12 HYDRONIC PLAN - CORRIDOR

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

MECHANICAL KEY NOTES:

1. PROVIDE 2-WAY 2-1/2" BYPASS VALVE ON THE PRIMARY LOOP TO ENSURE MINIMUM SYSTEM WATERFLOW IS MAINTAINED DURING PERIODS OF LOW HVAC DEMAND AS THE VFD SPEED IS REDUCED. A TOTAL MINIMUM SYSTEM FLOW OF 150 GPM IS REQUIRED FOR TURBULENT FLOW IN THE GHX, WHICH IS NEEDED FOR EFFECTIVE HEAT TRANSFER. VALVE TO BE MODULATED BY THE BAS IN RESPONSE TO THE NEARBY DIFFERENTIAL PRESSURE SENSOR IN THE CONDENSER WATER MAINS.
2. ROUTE CONDENSER WATER PIPES BELOW GRADE AT THE CORRIDOR LOBBIES. REFER TO UNDERGROUND PIPING SPECS.
3. 3/4" BRANCH TO WHSP. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.
4. 1" BRANCH TO WHSP OR ERV. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.
5. 1-1/4" BRANCH TO WHSP OR ERV. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.



2 M2.12 HYDRONIC PLAN - PHYSICAL PLANT

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

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GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
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PROJECT NO.
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FEB 21TH, 2011

DRAWING TITLE
HYDRONIC PLAN - CORRIDOR AND PHYSICAL PLANT

M2.12

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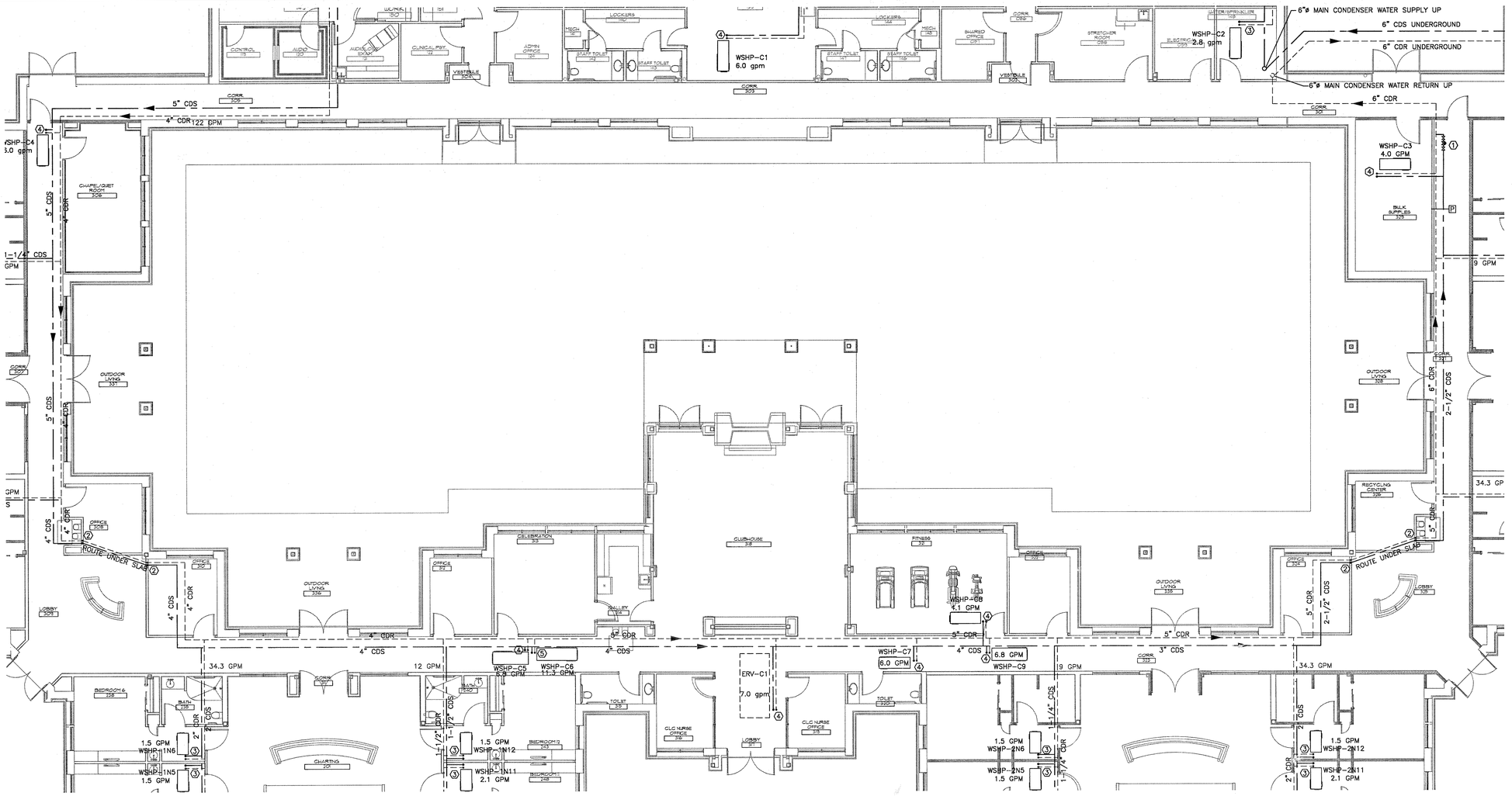
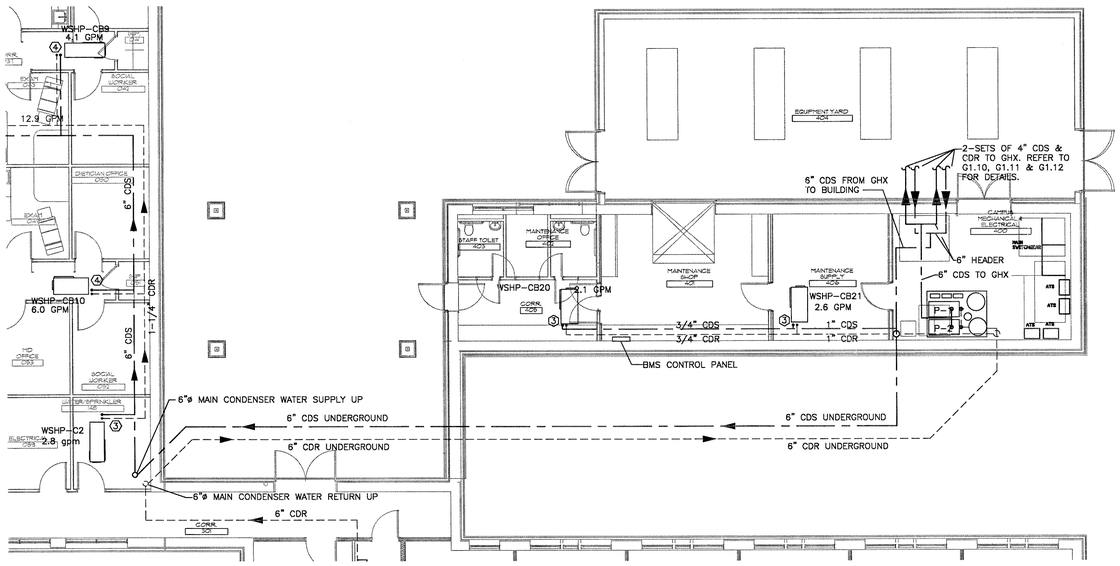


1 / M2.12 HYDRONIC PLAN - CORRIDOR

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

MECHANICAL KEY NOTES:

1. PROVIDE 2-WAY 2-1/2" BYPASS VALVE ON THE PRIMARY LOOP TO ENSURE MINIMUM SYSTEM WATERFLOW IS MAINTAINED DURING PERIODS OF LOW HVAC DEMAND AS THE VFD SPEED IS REDUCED. A TOTAL MINIMUM SYSTEM FLOW OF 150 GPM IS REQUIRED FOR TURBULENT FLOW IN THE GHX, WHICH IS NEEDED FOR EFFECTIVE HEAT TRANSFER. VALVE TO BE MODULATED BY THE BAS IN RESPONSE TO THE NEARBY DIFFERENTIAL PRESSURE SENSOR IN THE CONDENSER WATER MAINS.
2. ROUTE CONDENSER WATER PIPES BELOW GRADE AT THE CORRIDOR LOBBIES. REFER TO UNDERGROUND PIPING SPECS.
3. 3/4" BRANCH TO WHSP. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.
4. 1" BRANCH TO WHSP OR ERV. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.
5. 1-1/4" BRANCH TO WHSP OR ERV. SEE WSHP DETAIL FOR PIPING REQUIREMENTS AT THE UNIT.



2 / M2.12 HYDRONIC PLAN - PHYSICAL PLANT

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

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2/21/11	ISSUED FOR BID

PROJECT NO: 229.01.00

DATE: FEB 21TH, 2011

DRAWING TITLE: HYDRONIC PLAN - CORRIDOR AND PHYSICAL PLANT

M2.12

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ROOFTOP ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	FRESH AIR (FA)			EXHAUST AIR (EA)			RETURN AIR		OUTDOOR AIR (DESIGN HUMIDITY)		VENTILATION AIR (DESIGN HUMIDITY)		OUTDOOR AIR (DESIGN HEATING)		FRESH AIR (DESIGN HEATING)		WATER SIDE-GHX LOOP (COOLING)			(HEATING)		MAKE/MODEL	NOTES
	CFM	E.S.P.	FAN (HP)	CFM	E.S.P.	FAN (HP)	db/wb	RH	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	FLOW GPM	EWT °F	THR MBH	EWT °F	THA MBH		
ERV-CB1	1075	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/56.3	64.3	18/16	9.8	55/42.4	21.6	11.0	85	56.3	55	30.8	CLIMATEMASTER TORW03	SEE BELOW
ERV-CB2	1000	0.75"	0.5	850	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.7	62.0	18/16	9.8	55/42.4	21.7	11.0	85	55.8	55	30.8	CLIMATEMASTER TORW03	SEE BELOW
ERV-CB3	875	0.75"	1.0	775	0.75	0.5	77/65	53%	81/75	128.0	60.0/57.7	70.5	18/16	9.8	55/42.6	22.3	7.0	85	36.3	55	17.7	CLIMATEMASTER TORW02	SEE BELOW

NOTES:
1. BOTTOM INTAKE AND DISCHARGE CONFIGURATION
2. UNIT TO BE CONFIGURED TO BE LOCATED OUTDOORS ON A FLAT ROOF. PROVIDE ROOF CURB.
3. UNIT TO OPEATE BASED ON OCCUPANCY SCHEDULE.
4. UNIT TO BE PROVIDED WITH THE FOLLOWING: 70% MINIMUM EFFICIENCY SENSIBLE& LATENT ENERGY RECOVERY WHEEL, WATERSOURCE HEATPUMP COOLING/HEATING COIL, SUPPLY FAN, EXHAUST FAN, SUPPLY AIR TEMPERATURE SENSOR
5. PROVIDE BACNET COMPATIBLE CONTROL MODULE FOR CONNECTION TO BUILDING AUTOMATION SYSTEM
6. SINGLE POINT POWER WITH INTEGRAL ELECTRICAL WITH DISCONNECT
7. PROVIDE WITH MERV 8 INTAKE AND EXHAUST FILTERS

EXHAUST FAN SCHEDULE

FAN NO.	SERVICE	MANUF. & MODEL	CFM	POWER	S.P.	MAX. SONES	VOLTS – PH	NOTES
EF-1N1	ELEC. ROOM	PENN ZBS-RA	225	77W	0.25"	3.0	120 – 1ø	1, 2, 3, 4
								NOT USED ⚠
EF-2N1	ELEC. ROOM	PENN ZBS-RA	225	77W	0.25"	3.0	120 – 1ø	1, 2, 3, 4
								NOT USED ⚠
EF-E1	ELEC. ROOM	PENN ZBS-RA	225	77W	0.25"	3.0	120 – 1ø	1, 2, 3, 4
								NOT USED ⚠
EF-W1	ELEC. ROOM	PENN ZBS-RA	225	77W	0.25"	3.0	120 – 1ø	1, 2, 3, 4
								NOT USED ⚠
EF-C1	RECYCLING ROOM	PENN ZBS-RA	200	77W	0.25"	3.0	120 – 1ø	1, 2, 4, 5, 6, 7
EF-PP1	PHYSICAL PLAN TOILET	PENN ZT	75	48W	0.25"	2.5	120 – 1ø	1, 2, 4, 5, 6, 7
EF-CB1	MED GAS	PENN DX08S	70	44W	0.375"	3.8	120 – 1ø	1, 2, 5, 6, 7

NOTES:
1. INTEGRAL ELECTRICAL DISCONNECT
2. SPEED CONTROL
3. CONTROL VIA WALL THERMOSTAT
4. MFG. PROVIDED INTAKE GRILLE
5. ROOF CAP/ROOF CURB
6. BACKDRAFT DAMPER
7. FAN TO OPERATE CONTINUOUSLY

MEZZANINE ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	FRESH AIR (FA)			EXHAUST AIR (EA)			RETURN AIR		OUTDOOR AIR (DESIGN HUMIDITY)		VENTILATION AIR (DESIGN HUMIDITY)		OUTDOOR AIR (DESIGN HEATING)		FRESH AIR (DESIGN HEATING)		WATER SIDE-GHX LOOP FLOW	(COOLING)		(HEATING)		MAKE/MODEL	NOTES
	CFM	E.S.P.	FAN (HP)	CFM	E.S.P.	FAN (HP)	db/wb	RH	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	GPM	EWT °F	THR MBH	EWT °F	THA MBH		
ERV-E1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHW03	SEE BELOW
ERV-1N1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHW03	SEE BELOW
ERV-2N1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHW03	SEE BELOW
ERV-W1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHW03	SEE BELOW
ERV-C1	800	0.75"	0.5	700	0.75	0.5	77/65	53%	81/75	128.0	60.0/57.0	67.9	18/16	9.8	55.0/42.6	22.7	7.0	85	35.7	55	19.2	CLIMATEMASTER TOHW02	SEE BELOW

NOTES:
1. HORIZONTAL INTAKE AND DISCHARGE CONFIGURATION
2. UNIT TO BE CONFIGURED TO BE LOCATED INDOORS ON A MECHANICAL MEZZANINE.
3. UNIT TO OPEATE CONTINUOUSLY
4. UNIT TO BE PROVIDED WITH THE FOLLOWING: 70% MINIMUM EFFICIENCY SENSIBLE& LATENT ENERGY RECOVERY WHEEL, WATERSOURCE HEATPUMP COOLING/HEATING COIL, SUPPLY FAN, EXHAUST FAN, SUPPLY AIR TEMPERATURE SENSOR
5. PROVIDE BACNET COMPATIBLE CONTROL MODULE FOR CONNECTION TO BUILDING AUTOMATION SYSTEM
6. SINGLE POINT POWER WITH INTEGRAL ELECTRICAL WITH DISCONNECT
7. PROVIDE WITH MERV 8 INTAKE AND EXHAUST FILTERS

HVAC SYMBOLS AND ABBREVIATIONS

	SUPPLY AIR DUCT UP/DOWN	CDR	CONDENSER WATER RETURN
	RETURN/EXHAUST AIR DUCT UP/DOWN	CDS	CONDENSER WATER SUPPLY
	NEW DUCTWORK	CU-*	CONDENSING UNIT
	FLEXIBLE DUCT	ø, DIA.	DIAMETER
	VOLUME DAMPER (VD)	EA, EAD	EXHAUST AIR, EA DUCT
	BACKDRAFT DAMPER (BD)	EF-*	EXHAUST FAN
⊠	SUPPLY DIFFUSER		
⊠	RETURN OR EXHAUST GRILLE	WSHP-*	WATER SOURCE HEAT PUMP
T	THERMOSTAT	FA	FRESH AIR (TEMPERED)
P	PRESSURE SENSOR	FCU-*	FAN COIL UNIT
M	MOTORIZED DAMPER – VVT SYSTEMS	BPD	MOTORIZED BYPASS DAMPER – VVT SYSTEMS
M	MOTORIZED DAMPER – 120VAC CONTROL DAMPER	GA	GAUGE
	DIFFUSER DESIGNATION	GPM	GALLONS PER MINUTE
	REFERENCE NOTE		
S	SMOKE DETECTER		
R	REMOTE SENSOR		
C	CARBON DIOXIDE (CO2) SENSOR		
	FIRE DAMPER (FD)	OA, OAD	OUTSIDE AIR, OA DUCT
	FIRE/SMOKE DAMPER		
	PIPE TURNED DOWN	OED	OPEN ENDED DUCT
	PIPE TURNED UP	P-*	PUMP
	BRANCH PIPE OFF MAIN	RA, RAD	RETURN AIR, RA DUCT
	RETURN WATER FLOW DIRECTION	ERV-*	ENERGY RECOVERY VENTILATOR
	SUPPLY WATER FLOW DIRECTION	SA, SAD	SUPPLY AIR, SA DUCT
A/C	ABOVE CEILING	SD	SPLITTER DAMPER
A/C-*	AIR CONDITIONING SYSTEM	U/G	UNDERGROUND
AFF	ABOVE FINISHED FLOOR		
CFM	CUBIC FEET PER MINUTE	VD	VOLUME DAMPER

LEED SPECIFIC NOTES:

1. REFER TO MECHANICAL SPECIFICATIONS FOR DETAILS ON BUILDING AUTOMATION SYSTEM AND CONTROLS INTERFACE. SYSTEMS TO BE COORDINATED AND TESTED IN ACCORDANCE WITH LEED COMMISSIONING DOCUMENTS. SUBSTITUTION OF EQUIPMENT REQUIRES WRITTEN CONSENT OF ENGINEER AND LEED COMMISSIONING AGENT (CxA).
2. SUBCONTRACTORS TO COORDINATE WITH GENERAL CONTRACTOR FOR DOCUMENTATION OF WASTE REMOVED FROM SITE/DIVERTED FROM LANDFILL FOR RECYCLING OR REUSE. COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS AND GENERAL CONTRACTOR MATERIAL RE-USE/WASTE REDUCTION PLAN FOR REMOVAL OF EXISTING HVAC EQUIPMENT AND RELATED BUILDING MATERIAL.
3. DUCT LEAKAGE TESTING; VERIFICATION OF INSULATION VALUES; TEST AND BALANCE REPORTS AND OTHER STEPS RELATED TO VERIFYING PERFORMANCE OF AIR DISTRIBUTION SYSTEM SHALL BE DOCUMENTED AND SUBMITTED TO LEED CxA AND ENGINEER.
4. CONTRACTOR TO CREATE AND ADHERE TO CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN PER LEED IEQ CREDIT 3.1; INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A. DURING CONSTRUCTION, FOLLOW SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, 1995, CHAPTER 3.
   B. PROTECT ON-SITE ABSORPTIVE MATERIALS FROM DAMAGE DUE TO MOISTURE.
   C. AVOID USING BUILDING AIR HANDLERS DURING CONSTRUCTION PHASES INVOLVING PRODUCTION OF DUST/SMALL DEBRIS, FUMES, OR ANY SOURCE OF CONTAMINANTS.
   D. IF BUILDING AIR HANDLERS ARE USED DURING CONSTRUCTION, MERV 8 FILTRATION MEDIA IS TO BE USED AT EACH RETURN AIR GRILLE, AND ALL FILTRATION MEDIA IS TO BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY.
   E. PHOTODOCUMENT USE OF THESE STRATEGIES FOR SUBMITTAL OF LEED DOCUMENTATION.
5. PURSUANT TO IEQ CREDIT 5, PRIOR TO OCCUPANCY MERV 13 OR BETTER FILTERS SHALL BE INSTALLED IN THE PATH OF ALL RETURN AND OUTSIDE AIR THAT IS TO BE DELIVERED AS SUPPLY AIR TO REGULARLY OCCUPIED AREAS OF THE BUILDING.

DUCTLESS SPLIT SYSTEM A/C UNIT SCHEDULE

SYS. #	FAN COIL UNIT				CONDENSING UNIT				MFG	MODEL NO.		SEER	NOTES
	MARK	CFM (MIN)	MOIST. REMOVAL (PINTS/HR)	MOTOR HP	MARK	TOTAL COOLING (MBH)	HTG. CAPACITY (MAX) TOTAL	HSPF	POWER VOLTS / PH		FCU	CU		
A/C-1	FCU-1	920	9.2		CU-1	34.2	37.0	9.3	208 / 1	MITSUBISHI	PKA-A36KA	PUZ-A36NHA3	14.0	SEE BELOW
A/C-2	FCU-2	370	5.2		CU-2	18.0	–	–	208 / 1	MITSUBISHI	PKA-A18HA	PUY-A18NHA3	15.3	SEE BELOW
A/C-3	FCU-3	370	5.2		CU-3	18.0	–	–	208 / 1	MITSUBISHI	PKA-A18HA	PUY-A18NHA3	15.3	SEE BELOW
A/C-4	FCU-4	370	5.2		CU-4	18.0	–	–	208 / 1	MITSUBISHI	PKA-A18HA	PUY-A18NHA3	15.3	SEE BELOW
A/C-5	FCU-5	335	2.0		CU-5	12.0	–	–	208 / 1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW
A/C-6	FCU-6	335	2.0		CU-6	12.0	–	–	208 / 1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW
A/C-7	FCU-7	335	2.0		CU-7	12.0	–	–	208 / 1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW
A/C-8	FCU-8	335	2.0		CU-8	12.0	–	–	208 / 1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW

DUCTLESS SPLIT NOTES:
1. MIN. 13 SEER
2. ADHERE TO MANUFACTURER'S GUIDELINES FOR REFRIGERANT PIPE SIZE AND MAXIMUM LENGTH
3. REFER TO MANFACTURER'S GUIDELINES FOR ELECTRICAL POWER & CONTROL WIRING

CONDENSING UNIT ACCESSORIES
A. MOUNTING CURB
B. LOW AMBIENT COOLING TO 0°F
C. COIL GUARDS
D. SERVICE VALVES
E. EXTENDED REFRIGERANT LINE KIT

FAN COIL UNIT ACCESSORIES
A. CONTRACTOR TO PROVIDE REQUIRED MOUNTING HARDWARE
B. INTEGRAL CONDENSATE PUMP
C. WALL MOUNT 7-DAY PROGRAMABLE T-STAT (NO REMOTE)
D. INTEGRAL ELECTRIC DISCONNECT

PUMP SCHEDULE

PUMP NO.	SERVICE	MFG. & MODEL	TYPE	FLOW RATE (GPM) ⚠	WORKING FLUID	HEAD (FT.)	MOTOR (HP)	PUMP EFFIC (DESIGN)	MOTOR EFFIC. ⚠	POWER VOLTS	POWER PH	NOTES
P-1	GEOTHERMAL LOOP	B&G 1510 - 3G	BASE MTD CENTRIFUGAL	366	WATER	115	15	73%	93% MIN	460	3	SEE BELOW
P-2	GEOTHERMAL LOOP	B&G 1510 - 3G	BASE MTD CENTRIFUGAL	366	WATER	115	15	73%	93% MIN	460	3	SEE BELOW

PUMPS 1 & 2 NOTES:
1. PROVIDE PUMPS AS PART OF A PREMANUFACTURED PUMP PACKAGE WITH ALL HYDRONIC ACCESSORIES, FLANGED RETURN & SUPPLY CONNECTIONS, CONTROL PANEL WIRED FOR A SINGLE POINT POWER CONNECTION, AND BACNET COMPATIBLE VFD'S AS INDICATED ON M3.22.
2. PROVIDE DIFFERENTIAL PRESSURE SENSOR WITH GAUGE, SUCTION DIFFUSER DIFFERENTIAL PRESSURE SENSOR WITH GAUGE, AND SUPPLY & RETURN WATER TEMPERATURE SENSORS WITH GAUGE.
3. MAXIMUM PRESSURE DROP THROUGH PUMP PACKAGE = 9.6FT
4. PACKAGE NOT TO EXCEED 72"w X 94"l X 90"h
5. SYSTEMS CONNECTIONS = 6"ø
6. PROVIDE VIBRATION ISOLATION FLOOR MOUNTS

DIFFUSER SCHEDULE

MARK — (A) 8"ø — NECK / 150 — CFM

MARK	TYPE	FACE	STYLE	BASIS OF DESIGN	
A	SUPPLY	24"X24"	SQUARE LAY-IN	TITUS	OMNI
B	RETURN	24"X24"	SQUARE LAY-IN	TITUS	PAR
C	SUPPLY/RETURN	AS NOTED	SURFACE MOUNT	TITUS	1700
D	SUPPLY	12"X12"	SQUARE LAY-IN	TITUS	OMNI
E	EXHAUST	12"X12"	SQUARE LAY-IN	TITUS	50F
F	EXHAUST	24"X24"	SQUARE LAY-IN	TITUS	50F
G	RETURN	12"X24"	SQUARE LAY-IN	TITUS	PAR
H	SUPPLY	48"-2X1"SLOT	SURFACE MOUNT	TITUS	TBDI-80
J	RETURN	48"-2X1"SLOT	SURFACE MOUNT	TITUS	TBR
K	SUPPLY	36"x4"	SURFACE MOUNT	TITUS	1700
L	SUPPLY	24"x4"	SURFACE MOUNT	TITUS	1700
M	SUPPLY/RETURN	BY AUDIO BOOTH VENDOR	SURFACE MOUNT	BY AUDIO BOOTH VENDOR	
N	SUPPLY	16"x3"	DUCT MOUNT	TITUS	S300FL
O	SUPPLY	19"x4"	SURFACE MOUNT	TITUS	CT-480

1. FINISH TO MATCH ARCHITECTURAL.
2. PROVIDE APPROPRIATE MOUNTING HARDWARE.
3. SURFACE MOUNT DIFFUSERS TO HAVE OPPOSED BLADE DAMPERS WHERE TAKE-OFF DAMPER LOCATION IS INACCESSIBLE
4. DUCT MOUNTED DIFFUSERS "N" TO HAVE OPPOSED BLADE DAMPERS
5. DIFFUSERS "O" TO APPEAR CONTINUOUS THE LENGTH OF THE ROOM

GENERAL MECHANICAL NOTES:

1. MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER.
2. DUCTWORK AND EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOBSITE.
3. SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE SUSPENDED CEILINGS IS CRITICAL. LIGHT FIXTURES AND AIR DIFFUSERS HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT. BECOME FAMILIAR WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
4. WHERE THE SPACE ABOVE THE SUSPENDED CEILINGS IS USED AS A RETURN AIR PLENUM, COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS ARE EXTENDED TO THE STRUCTURE ABOVE, PROVIDE OPENINGS IN THE PARTITIONS ABOVE THE CEILING.
5. ALL FIRE DAMPERS TO BE RATED AT 1-1/2 HOURS UNLESS INDICATED OTHERWISE. USE "B" FRAME FIRE DAMPERS FOR DAMPERS CONNECTED TO DUCTWORK
6. COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
7. RUNOUTS TO BE SAME SIZE AS DIFFUSER NECK. REFER TO THE DIFFUSER DESIGNATION ON THE PLANS.
8. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIRDUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDINGS SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS:

   THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL: BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E814 OR NFPA 251 FOR FIRE RATING.
9. DURING CONSTRUCTION, ALL OPEN DUCTWORK TO COVERED TO PREVENT CONTAMINATION.
10. IDENTIFY ALL FIRE DAMPER LOCATIONS WITH A 1/2" DIAMETER RED BUTTON PIN IN THE CEILING.

ELECTRIC UNIT HEATER SCHEDULE

NO.	LOCATION	KW	VOLTS – PH	MFG. MODEL	NOTES
UH-E1	EAST MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-1N1	NORTH MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-2N1	NORTH MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-W1	WEST MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-C1	CORR. MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4

1. INTEGRAL THERMOSTAT – HEATER TO MAINTAIN 45 DEG F IN MEZZANINE.
2. AUTOMATIC RESET THERMAL CUTOUT
3. BRACKET MOUNTING KIT
4. INTEGRAL ELECTRICAL DISCONNECT

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/24/11	PROGRESS PRINT
2/22/11	ISSUED FOR BID
3/11/11	ADDENDUM 2
3/18/11	ADDENDUM 3

PROJECT NO: 228.01.00
DATE: FEB 21TH, 2011
DRAWING TITLE: MECHANICAL SCHEDULES

M3.10

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ROOFTOP ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	FRESH AIR (FA)			EXHAUST AIR (EA)			RETURN AIR		OUTDOOR AIR (DESIGN HUMIDITY)		ENERGY WHEEL (DESIGN HUMIDITY)		FRESH AIR (TO BLDG) (DESIGN HUMIDITY)		OUTDOOR AIR (DESIGN HEATING)		ENERGY WHEEL (DESIGN HEATING)		FRESH AIR (TO BLDG) (DESIGN HEATING)		WATER SIDE-GHX LOOP (COOLING)			(HEATING)		MAKE/MODEL	NOTES
	CFM	E.S.P.	FAN (HP)	CFM	E.S.P.	FAN (HP)	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	FLOW GPM	△P	EWT °F	THR MBH	EWT °F	THA MBH		
ERV-CB1	1355	0.75"	1.0	1225	0.75	0.5	77/65	76.5	81/75	128.0	78.1/68.3	92.6	60.0/58.2	72.4	18/16	9.8	54.3/41.9	21.2	55/42.4	21.2	11.0	4.1	85	57.8	55	29.8	CLIMATEMASTER TORV03	SEE BELOW
ERV-CB2	1450	0.75"	2.0	1300	0.75	1.0	77/65	76.5	81/75	128.0	78.2/68.5	93.4	60.0/58.6	74.4	18/16	9.8	53.6/41.4	20.9	55/42.1	21.7	11.0	4.1	85	58.5	55	29.8	CLIMATEMASTER TORV03	SEE BELOW
ERV-CB3	1180	0.75"	1.0	1050	0.75	0.5	77/65	76.5	81/75	128.0	78.0/68.1	91.5	60.0/57.3	68.6	18/16	9.8	55.1/42.4	21.5	55/42.3	21.5	11.0	4.1	85	56.5	55	29.8	CLIMATEMASTER TORV03	SEE BELOW

NOTES:
1. BOTTOM INTAKE AND DISCHARGE CONFIGURATION
2. UNIT TO BE CONFIGURED TO BE LOCATED OUTDOORS ON A FLAT ROOF. PROVIDE ROOF CURB.
3. UNIT TO OPEATE BASED ON OCCUPANCY SCHEDULE.
4. UNIT TO BE PROVIDED WITH THE FOLLOWING: 70% MINIMUM EFFICIENCY SENSIBLE& LATENT ENERGY RECOVERY WHEEL, WATERSOURCE HEATPUMP COOLING/HEATING COIL, SUPPLY FAN, EXHAUST FAN, INTAKE, EXHAUST, AND SUPPLY AIR TEMPERATURE SENSOR
5. PROVIDE BACNET COMPATIBLE CONTROL MODULE FOR CONNECTION TO BUILDING AUTOMATION SYSTEM
6. SINGLE POINT POWER WITH INTEGRAL ELECTRICAL WITH DISCONNECT
7. PROVIDE WITH MERV 8 INTAKE AND EXHAUST FILTERS
8. MINIMUM COMBINED EFFICIENCIES: @ 81/75, EER=17.9, @ 18/16, COP=2.6
9. WINTER OPERATION TO PRIMARILY BE VIA THE ENERGY WHEEL WITH NO MECHANICAL HEATING. MECHANICAL HEATING TO ONLY BE UTILIZED IN THE EVENT THAT DISCHARGE TEMPERATURES FROM THE ENERGY WHEEL FALL BELOW 45 DEG F.
10. PROVIDE HEAT TRACE ON ALL EXTERIOR CONDENSER WATER PIPING TO AND WITHIN THE UNIT. ALSO HEAT TRACE THE CONDENSER COIL.
11. UNIT CONTROLS TO BE CAPABLE OF CONTROLLING DISCHARGE TEMPERATURES WITHIN +/- 2 DEGREES F AT ALL TIMES.

EXHAUST FAN SCHEDULE

FAN NO.	SERVICE	MANUF. & MODEL	CFM	POWER	S.P.	MAX. SONES	VOLTS - PH	NOTES
EF-1N1	ELEC. ROOM	PENN Z8S-RA	225	77W	0.25"	3.0	120 - 1ø	1, 2, 3, 4
								NOT USED
EF-2N1	ELEC. ROOM	PENN Z8S-RA	225	77W	0.25"	3.0	120 - 1ø	1, 2, 3, 4
								NOT USED
EF-E1	ELEC. ROOM	PENN Z8S-RA	225	77W	0.25"	3.0	120 - 1ø	1, 2, 3, 4
								NOT USED
EF-W1	ELEC. ROOM	PENN Z8S-RA	225	77W	0.25"	3.0	120 - 1ø	1, 2, 3, 4
								NOT USED
EF-C1	RECYCLING ROOM	PENN Z8S-RA	200	77W	0.25"	3.0	120 - 1ø	1, 2, 4, 5, 6, 7
EF-PP1	PHYSICAL PLAN TOILET	PENN ZT	75	48W	0.25"	2.5	120 - 1ø	1, 2, 4, 5, 6, 7
EF-CB1	MED GAS	PENN DX08S	70	44W	0.375"	3.8	120 - 1ø	1, 2, 5, 6, 7

NOTES:
1. INTEGRAL ELECTRICAL DISCONNECT
2. SPEED CONTROL
3. CONTROL VIA WALL THERMOSTAT
4. MFG. PROVIDED INTAKE GRILLE
5. ROOF CAP/ROOF CURB
6. BACKDRAFT DAMPER
7. FAN TO OPERATE CONTINUOUSLY

MEZZANINE ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	FRESH AIR (FA)			EXHAUST AIR (EA)			RETURN AIR		OUTDOOR AIR (DESIGN HUMIDITY)		VENTILATION AIR (DESIGN HUMIDITY)		OUTDOOR AIR (DESIGN HEATING)		FRESH AIR (DESIGN HEATING)		WATER SIDE-GHX LOOP FLOW	(COOLING)		(HEATING)		MAKE/MODEL	NOTES
	CFM	E.S.P.	FAN (HP)	CFM	E.S.P.	FAN (HP)	db/wb	RH	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	db/wb	GRAINS	GPM	EWT °F	THR MBH	EWT °F	THA MBH		
ERV-E1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHV03	SEE BELOW
ERV-1N1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHV03	SEE BELOW
ERV-2N1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHV03	SEE BELOW
ERV-W1	1000	0.75"	0.5	925	0.75	0.5	77/65	53%	81/75	128.0	60.0/55.6	61.4	18/16	9.8	55.0/42.6	22.2	11.0	85	35.6	55	19.2	CLIMATEMASTER TOHV03	SEE BELOW
ERV-C1	800	0.75"	0.5	700	0.75	0.5	77/65	53%	81/75	128.0	60.0/57.0	67.9	18/16	9.8	55.0/42.6	22.7	7.0	85	35.7	55	19.2	CLIMATEMASTER TOHV02	SEE BELOW

NOTES:
1. HORIZONTAL INTAKE AND DISCHARGE CONFIGURATION
2. UNIT TO BE CONFIGURED TO BE LOCATED INDOORS ON A MECHANICAL MEZZANINE.
3. UNIT TO OPEATE CONTINUOUSLY
4. UNIT TO BE PROVIDED WITH THE FOLLOWING: 70% MINIMUM EFFICIENCY SENSIBLE& LATENT ENERGY RECOVERY WHEEL, WATERSOURCE HEATPUMP COOLING/HEATING COIL, SUPPLY FAN, EXHAUST FAN, SUPPLY AIR TEMPERATURE SENSOR
5. PROVIDE BACNET COMPATIBLE CONTROL MODULE FOR CONNECTION TO BUILDING AUTOMATION SYSTEM
6. SINGLE POINT POWER WITH INTEGRAL ELECTRICAL WITH DISCONNECT
7. PROVIDE WITH MERV 8 INTAKE AND EXHAUST FILTERS

HVAC SYMBOLS AND ABBREVIATIONS

	SUPPLY AIR DUCT UP/DOWN	CDR	CONDENSER WATER RETURN
	RETURN/EXHAUST AIR DUCT UP/DOWN	CDS	CONDENSER WATER SUPPLY
	NEW DUCTWORK	CU-*	CONDENSING UNIT
	FLEXIBLE DUCT	ø, DIA.	DIAMETER
	VOLUME DAMPER (VD)	EA, EAD	EXHAUST AIR, EA DUCT
	BACKDRAFT DAMPER (BD)	EF-*	EXHAUST FAN
⊠	SUPPLY DIFFUSER		
	RETURN OR EXHAUST GRILLE	WSHP-*	WATER SOURCE HEAT PUMP
Ⓣ	THERMOSTAT	FA	FRESH AIR (TEMPERED)
—P—	PRESSURE SENSOR	FCU-*	FAN COIL UNIT
—M—	MOTORIZED DAMPER - VVT SYSTEMS	BPD	MOTORIZED BYPASS DAMPER - VVT SYSTEMS
M	MOTORIZED DAMPER - 120VAC CONTROL DAMPER	GA	GAUGE
	DIFFUSER DESIGNATION	GPM	GALLONS PER MINUTE
⬡	REFERENCE NOTE		
S	SMOKE DETECTER		
R	REMOTE SENSOR		
C	CARBON DIOXIDE (CO2) SENSOR		
	FIRE DAMPER (FD)	OA, OAD	OUTSIDE AIR, OA DUCT
	FIRE/SMOKE DAMPER		
	PIPE TURNED DOWN	OED	OPEN ENDED DUCT
	PIPE TURNED UP	P-*	PUMP
	BRANCH PIPE OFF MAIN	RA, RAD	RETURN AIR, RA DUCT
	RETURN WATER FLOW DIRECTION	ERV-*	ENERGY RECOVERY VENTILATOR
	SUPPLY WATER FLOW DIRECTION	SA, SAD	SUPPLY AIR, SA DUCT
A/C	ABOVE CEILING	SD	SPLITTER DAMPER
A/C-*	AIR CONDITIONING SYSTEM	U/G	UNDERGROUND
AFF	ABOVE FINISHED FLOOR		
CFM	CUBIC FEET PER MINUTE	VD	VOLUME DAMPER

LEED SPECIFIC NOTES:

1. REFER TO MECHANICAL SPECIFICATIONS FOR DETAILS ON BUILDING AUTOMATION SYSTEM AND CONTROLS INTERFACE. SYSTEMS TO BE COORDINATED AND TESTED IN ACCORDANCE WITH LEED COMMISSIONING DOCUMENTS. SUBSTITUTION OF EQUIPMENT REQUIRES WRITTEN CONSENT OF ENGINEER AND LEED COMMISSIONING AGENT (CxA).
2. SUBCONTRACTORS TO COORDINATE WITH GENERAL CONTRACTOR FOR DOCUMENTATION OF WASTE REMOVED FROM SITE/DIVERTED FROM LANDFILL FOR RECYCLING OR REUSE. COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS AND GENERAL CONTRACTOR MATERIAL RE-USE/WASTE REDUCTION PLAN FOR REMOVAL OF EXISTING HVAC EQUIPMENT AND RELATED BUILDING MATERIAL.
3. DUCT LEAKAGE TESTING; VERIFICATION OF INSULATION VALUES; TEST AND BALANCE REPORTS AND OTHER STEPS RELATED TO VERIFYING PERFORMANCE OF AIR DISTRIBUTION SYSTEM SHALL BE DOCUMENTED AND SUBMITTED TO LEED CxA AND ENGINEER.
4. CONTRACTOR TO CREATE AND ADHERE TO CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT PLAN PER LEED IEQ CREDIT 3.1; INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A. DURING CONSTRUCTION, FOLLOW SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, 1995, CHAPTER 3.
   B. PROTECT ON-SITE ABSORPTIVE MATERIALS FROM DAMAGE DUE TO MOISTURE.
   C. AVOID USING BUILDING AIR HANDLERS DURING CONSTRUCTION PHASES INVOLVING PRODUCTION OF DUST/SMALL DEBRIS, FUMES, OR ANY SOURCE OF CONTAMINANTS.
   D. IF BUILDING AIR HANDLERS ARE USED DURING CONSTRUCTION, MERV 8 FILTRATION MEDIA IS TO BE USED AT EACH RETURN AIR GRILLE, AND ALL FILTRATION MEDIA IS TO BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY.
   E. PHOTODOCUMENT USE OF THESE STRATEGIES FOR SUBMITTAL OF LEED DOCUMENTATION.
5. PURSUANT TO IEQ CREDIT 5, PRIOR TO OCCUPANCY MERV 13 OR BETTER FILTERS SHALL BE INSTALLED IN THE PATH OF ALL RETURN AND OUTSIDE AIR THAT IS TO BE DELIVERED AS SUPPLY AIR TO REGULARLY OCCUPIED AREAS OF THE BUILDING.

DUCTLESS SPLIT SYSTEM A/C UNIT SCHEDULE

SYS. #	FAN COIL UNIT MARK	CFM (MIN)	MOIST. REMOVAL (PINTS/HR)	MOTOR HP	CONDENSING UNIT MARK	TOTAL COOLING (MBH)	HTG. CAPACITY (MAX) TOTAL	HTG. CAPACITY (MAX) HSPF	POWER VOLTS	POWER PH	MFG	MODEL NO. FCU	MODEL NO. CU	SEER	NOTES
A/C-1	FCU-1	920	9.2		CU-1	34.2	37.0	9.3	208	1	MITSUBISHI	PKA-A36KA	PUZ-A36NHA3	14.0	SEE BELOW
A/C-2	FCU-2	370	5.2		CU-2	18.0	–	–	208	1	MITSUBISHI	PKA-A18HA	PUY-A18NHA3	15.3	SEE BELOW
A/C-3	FCU-3	370	5.2		CU-3	18.0	–	–	208	1	MITSUBISHI	PKA-A18HA	PUY-A18NHA3	15.3	SEE BELOW
A/C-4	FCU-4	370	5.2		CU-4	18.0	–	–	208	1	MITSUBISHI	PKA-A18HA	PUY-A18NHA3	15.3	SEE BELOW
A/C-5	FCU-5	335	2.0		CU-5	12.0	–	–	208	1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW
A/C-6	FCU-6	335	2.0		CU-6	12.0	–	–	208	1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW
A/C-7	FCU-7	335	2.0		CU-7	12.0	–	–	208	1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW
A/C-8	FCU-8	335	2.0		CU-8	12.0	–	–	208	1	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	15.2	SEE BELOW

DUCTLESS SPLIT NOTES:
1. MIN. 13 SEER
2. ADHERE TO MANUFACTURER'S GUIDELINES FOR REFRIGERANT PIPE SIZE AND MAXIMUM LENGTH
3. REFER TO MANFACTURER'S GUIDELINES FOR ELECTRICAL POWER & CONTROL WIRING

CONDENSING UNIT ACCESSORIES
A. MOUNTING CURB
B. LOW AMBIENT COOLING TO 0°F
C. COIL GUARDS
D. SERVICE VALVES
E. EXTENDED REFRIGERANT LINE KIT

FAN COIL UNIT ACCESSORIES
A. CONTRACTOR TO PROVIDE REQUIRED MOUNTING HARDWARE
B. INTEGRAL CONDENSATE PUMP
C. WALL MOUNT 7-DAY PROGRAMABLE T-STAT (NO REMOTE)
D. INTEGRAL ELECTRIC DISCONNECT

PUMP SCHEDULE

PUMP NO.	SERVICE	MFG. & MODEL	TYPE	FLOW RATE (GPM)	WORKING FLUID	HEAD (FT.)	MOTOR (HP)	PUMP EFFIC (DESIGN)	MOTOR EFFIC.	POWER VOLTS	POWER PH	NOTES
P-1	GEOTHERMAL LOOP	B&G 1510 - 3G	BASE MTD CENTRIFUGAL	366	WATER	115	15	73%	93% MIN	460	3	SEE BELOW
P-2	GEOTHERMAL LOOP	B&G 1510 - 3G	BASE MTD CENTRIFUGAL	366	WATER	115	15	73%	93% MIN	460	3	SEE BELOW

PUMPS 1 & 2 NOTES:
1. PROVIDE PUMPS AS PART OF A PREMANUFACTURED PUMP PACKAGE WITH ALL HYDRONIC ACCESSORIES, FLANGED RETURN & SUPPLY CONNECTIONS, CONTROL PANEL WIRED FOR A SINGLE POINT POWER CONNECTION, AND BACNET COMPATIBLE VFD'S AS INDICATED ON M3.22.
2. PROVIDE DIFFERENTIAL PRESSURE SENSOR WITH GAUGE, SUCTION DIFFUSER DIFFERENTIAL PRESSURE SENSOR WITH GAUGE, AND SUPPLY & RETURN WATER TEMPERATURE SENSORS WITH GAUGE.
3. MAXIMUM PRESSURE DROP THROUGH PUMP PACKAGE = 9.6FT
4. PACKAGE NOT TO EXCEED 72"w X 94"l X 90"h
5. SYSTEMS CONNECTIONS = 6"ø
6. PROVIDE VIBRATION ISOLATION FLOOR MOUNTS

DIFFUSER SCHEDULE

MARK — (A) 8"ø — NECK / 150 — CFM

MARK	TYPE	FACE	STYLE	BASIS OF DESIGN
A	SUPPLY	24"X24"	SQUARE LAY-IN	TITUS OMNI
B	RETURN	24"X24"	SQUARE LAY-IN	TITUS PAR
C	SUPPLY/ RETURN	AS NOTED	SURFACE MOUNT	TITUS 1700
D	SUPPLY	12"X12"	SQUARE LAY-IN	TITUS OMNI
E	EXHAUST	12"X12"	SQUARE LAY-IN	TITUS 50F
F	EXHAUST	24"X24"	SQUARE LAY-IN	TITUS 50F
G	RETURN	12"X24"	SQUARE LAY-IN	TITUS PAR
H	SUPPLY	48"-2X1"SLOT	SURFACE MOUNT	TITUS TBDI-80
J	RETURN	48"-2X1"SLOT	SURFACE MOUNT	TITUS TBR
K	SUPPLY	36"x4"	SURFACE MOUNT	TITUS 1700
L	SUPPLY	24"x4"	SURFACE MOUNT	TITUS 1700
M	SUPPLY/ RETURN	BY AUDIO BOOTH VENDOR	SURFACE MOUNT	BY AUDIO BOOTH VENDOR
N	SUPPLY	16"x3"	DUCT MOUNT	TITUS S300FL
O	SUPPLY	19"x4"	SURFACE MOUNT	TITUS CT-480

1. FINISH TO MATCH ARCHITECTURAL.
2. PROVIDE APPROPRIATE MOUNTING HARDWARE.
3. SURFACE MOUNT DIFFUSERS TO HAVE OPPOSED BLADE DAMPERS WHERE TAKE-OFF DAMPER LOCATION IS INACCESSIBLE
4. DUCT MOUNTED DIFFUSERS "N" TO HAVE OPPOSED BLADE DAMPERS
5. DIFFUSERS "O" TO APPEAR CONTINUOUS THE LENGTH OF THE ROOM

GENERAL MECHANICAL NOTES:

1. MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER. COORDINATE LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLING.
2. DUCTWORK AND EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOBSITE.
3. SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE SUSPENDED CEILINGS IS CRITICAL. LIGHT FIXTURES AND AIR DIFFUSERS HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT. BECOME FAMILIAR WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
4. WHERE THE SPACE ABOVE THE SUSPENDED CEILINGS IS USED AS A RETURN AIR PLENUM, COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS ARE EXTENDED TO THE STRUCTURE ABOVE, PROVIDE OPENINGS IN THE PARTITIONS ABOVE THE CEILING.
5. ALL FIRE DAMPERS TO BE RATED AT 1-1/2 HOURS UNLESS INDICATED OTHERWISE. USE "B" FRAME FIRE DAMPERS FOR DAMPERS CONNECTED TO DUCTWORK
6. COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
7. RUNOUTS TO BE SAME SIZE AS DIFFUSER NECK. REFER TO THE DIFFUSER DESIGNATION ON THE PLANS.
8. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIRDUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDINGS SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS:

   THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL: BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E814 OR NFPA 251 FOR FIRE RATING.
9. DURING CONSTRUCTION, ALL OPEN DUCTWORK TO COVERED TO PREVENT CONTAMINATION.
10. IDENTIFY ALL FIRE DAMPER LOCATIONS WITH A 1/2" DIAMETER RED BUTTON PIN IN THE CEILING.
11. CONDENSER WATER IN THE LOOP TO CONTAIN COROSION INHIBITORS ONLY. NO GLYCOL.

VENTILATION FAN SCHEDULE

FAN NO.	SERVICE	MANUF. & MODEL	CFM	POWER	S.P.	MAX. SONES	VOLTS - PH	NOTES
VF-1	WSHP-CB22	TWIN CITY DSI-135AN	720	1/4HP	0.75"	7.9	120 - 1ø	1, 2, 3, 4
VF-2	WSHP-CB14	TWIN CITY DSI-090A	465	1/8HP	0.75"	8.5	120 - 1ø	1, 2, 3, 4
VF-3	WSHP-CB5	TWIN CITY DSI-080A	330	1/8HP	0.75"	7.3	120 - 1ø	1, 2, 3, 4
VF-4	WSHP-CB24	TWIN CITY DSI-080A	335	1/8HP	0.75"	7.3	120 - 1ø	1, 2, 3, 4
VF-5	WSHP-CB23	TWIN CITY DSI-090A	440	1/8HP	0.75"	8.5	120 - 1ø	1, 2, 3, 4
VF-6	WSHP-CB21	TWIN CITY DSI-080A	305	1/8HP	0.75"	7.3	120 - 1ø	1, 2, 3, 4
VF-7	WSHP-CB16	TWIN CITY DSI-0100A	1005	1/3HP	0.75"	14.9	120 - 1ø	1, 2, 3, 4
VF-8	WSHP-CB20	TWIN CITY DSI-090A	495	1/8HP	0.75"	8.5	120 - 1ø	1, 2, 3, 4
VF-9	WSHP-CB19	TWIN CITY DSI-090A	445	1/8HP	0.75"	8.5	120 - 1ø	1, 2, 3, 4

NOTES:
1. INTEGRAL ELECTRICAL DISCONNECT
2. SPEED CONTROL
3. CONTROL VIA BAS. FAN TO BE INTERLOCKED WITH WSHP-CB22 FAN OPERATION. RUN CONTINUOUSLY DURING OCCUPIED HOURS AND INTERMITTENTLY WHEN WSHP-CB22 CYCLES TO MAINTAIN TEMPERATURE DURING UNOCCUPIED HOURS.
4. CONTRACTOR TO PROVIDE A 2" MERV-13 FILTER ASSEMBLY ON THE FAN DISCHARGE. SIZE FILTER PER SCHEDULE.

FILTER SCHEDULE

FAN NO.	SERVICE	MANUF. & MODEL	CFM	FILTER DIMENSIONS	INITIAL △P	NOTES
F-1	VF-1	GLASFLOSS Z-LINE MR13	720	14"X20"X2"	<0.25" WC	1, 2, 3
F-2	VF-2	GLASFLOSS Z-LINE MR13	465	10"X20"X2"	<0.25" WC	1, 2, 3
F-3	VF-3	GLASFLOSS Z-LINE MR13	330	10"X20"X2"	<0.25" WC	1, 2, 3
F-4	VF-4	GLASFLOSS Z-LINE MR13	335	10"X20"X2"	<0.25" WC	1, 2, 3
F-5	VF-5	GLASFLOSS Z-LINE MR13	440	10"X20"X2"	<0.25" WC	1, 2, 3
F-6	VF-6	GLASFLOSS Z-LINE MR13	305	10"X20"X2"	<0.25" WC	1, 2, 3
F-7	VF-7	GLASFLOSS Z-LINE MR13	1005	16"X20"X2"	<0.25" WC	1, 2, 3
F-8	VF-8	GLASFLOSS Z-LINE MR13	495	10"X20"X2"	<0.25" WC	1, 2, 3
F-9	VF-9	GLASFLOSS Z-LINE MR13	440	10"X20"X2"	<0.25" WC	1, 2, 3

NOTES:
1. PROVIDE SEALED FILTER HOUSING WITH LOCKING ACCESS PANEL
2. PROVIDE MAGNEHELIC DIFFERENTIAL PRESSURE GAUGE. RANGE = 0"-.5" WC
3. PROVIDE AIRFLOW STATION ON THE DISCHARGE BEYOND THE FILTER ASSEMBLY MONITORED BY BAS.

ELECTRIC UNIT HEATER SCHEDULE

NO.	LOCATION	KW	VOLTS - PH	MFG. MODEL	NOTES
UH-E1	EAST MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-1N1	NORTH MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-2N1	NORTH MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-W1	WEST MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4
UH-C1	CORR. MECH MEZZANINE	3.0	277/1	Q-MARK MUH-0371	1, 2, 3, 4

1. INTEGRAL THERMOSTAT - HEATER TO MAINTAIN 45 DEG F IN MEZZANINE.
2. AUTOMATIC RESET THERMAL CUTOUT
3. BRACKET MOUNTING KIT
4. INTEGRAL ELECTRICAL DISCONNECT

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GEORGIA REGISTERED No. 10786 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
8/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/4/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/1/11	ADDENDUM 2
3/18/11	ADDENDUM 3
4/28/11	REVISION 1

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DRAWING TITLE: MECHANICAL SCHEDULES

M3.10

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CLC 1N WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-1N1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N7	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N8	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N9	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N10	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N11	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N12	0.5	250	0.5	1/20	30	1.5	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 006
WSHP-1N13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-1N14	2	850	0.5	1/5	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC 2N WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-2N1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N7	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N8	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N9	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N10	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N11	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N12	0.5	250	0.5	1/20	30	1.5	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 006
WSHP-2N13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-2N14	2	850	0.5	1/5	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC E WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-E1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E7	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E8	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E9	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E10	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E11	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E12	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-E14	2	850	0.5	1/5	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC W WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-W1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W7	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W8	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W9	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W10	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W11	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W12	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-W14	2	850	0.5	1/5	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC WSHP NOTES:

1. PROVIDE HIGH STATIC BLOWER ON ALL UNITS CAPABLE OF PROVIDING FULL CFM WITH MERV 13 FILTER AT 50% LIFE. ⚠
2. TS SERIES UNITS TO BE POWERED AT 265/1/60
3. PROVIDE HOT GAS REHEAT ON ALL TT SERIES UNITS
4. TT SERIES UNITS TO BE POWERED AT 460/3/60
5. ALL UNITS TO BE PROVIDED WITH INTEGRAL ELECTRICAL DISCONNECTS
6. UNITS TO BE PROVIDED WITH MERV-8 FILTERS DURING CONSTRUCTION
7. IF UNITS ARE OPERATED DURING CONSTRUCTION, COILS ARE TO BE INSPECTED AND CLEANED AFTER CONSTRUCTION IS COMPLETE. ⚠
8. INSTALL 2" MERV 13 FILTERS AFTER CONSTRUCTION IS COMPLETED AND PRIOR TO T&B.
9. ALL WSHPs USE R-410a REFRIGERANT.
10. VERIFY MAINTENANCE CLEARANCES AND ACCESS. ACTUAL INSTALLED LOCATION OF ALL UNITS TO BE MARKED ON AS-BUILT DRAWINGS FOR REFERENCE BY MAINTENANCE PERSONNEL.
11. ROUTE CONDENSATE LINE SLOPED 1/4" PER FOOT TO NEAREST HUB-DRAIN; PROVIDE CONDENSATE PUMP AND 120VAC POWER TO PUMP WHERE REQUIRED.
12. AUXILLIARY CONDENSATE PANS WITH FLOAT SWITCH.
13. PROVIDE DDC COMPATIBLE TEMPERATURE SENSOR WITH TEMPERATURE DISPLAY AND USER INTERFACE ALLOWING A LOCAL TEMPERATURE ADJUSTMENT OF ± 2 DEGREES. T-STAT DESIGN SETPOINT (@ 74) DEGREES F COOLING, 70 DEGREES F HEATING. ⚠
14. PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR AND DIRTY FILTER SENSOR.
15. VENTILATION FOR ALL WSHPs DUCTED FROM ERVs PER MECHANICAL PLANS UNLESS OTHERWISE NOTED. PROVIDE VOLUME DAMPERS ON THE VENTILATION DUCT. ⚠
16. PROVIDE FOIL LINED INSULATION ON ALL INSULATED SURFACES EXPOSED TO THE AIRSTREAM. EXPOSED FIBERGLASS OR DUCT LINER WILL NOT BE PERMITTED.

CORRIDOR WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-C1	2.5	1040	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-C2	1.5	650	0.5	1/6	50	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.9	257.0	TS 018
WSHP-C3	2	850	0.5	1/5	135	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024
WSHP-C4	2.5	1075	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-C5*	3	1250	0.6	1/2	110	6.8	37.0	27.4	45.6	14.7	47.3	38.2	5.2	327.0	TT038
WSHP-C6*	5	1975	0.75	1	400	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-C7	2	750	0.5	1/5	80	6.0	25.8	18.6	31.5	15.7	31.7	25.4	5.0	275.0	TS 024
WSHP-C8	1.5	C	0.5	1/6	80	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-C9*	3	1260	0.6	1/2	110	6.8	37.0	27.4	45.6	14.7	47.3	38.2	5.2	327.0	TT038

CBOC & MAINTENANCE WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-CB1	4	1640	0.75	1	285	9.0	48.6	33.8	59.8	14.8	61.7	49.7	5.1	416.0	TT049
WSHP-CB2	4	1640	0.75	1	285	9.0	48.6	33.8	59.8	14.8	61.7	49.7	5.1	416.0	TT049
WSHP-CB3	1.5	650	0.5	1/6	110	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-CB4	1.5	650	0.5	1/6	110	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-CB5	0.75	275	0.5	1/20	32	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-CB6	1.5	600	0.5	1/6	110	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB7	2.5	1040	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-CB8	1.5	525	0.5	1/6	110	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB9	1.5	610	0.5	1/6	110	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-CB10	2	850	0.5	1/5	80	6.0	25.8	18.6	31.5	15.7	31.7	25.4	5.0	275.0	TS 024
WSHP-CB11	1.5	650	0.5	1/6	110	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-CB12	2	850	0.5	1/5	80	6.0	25.8	18.6	31.5	15.7	31.7	25.4	5.0	275.0	TS 024
WSHP-CB13	2	845	0.5	1/5	80	6.0	25.8	18.6	31.5	15.7	31.7	25.4	5.0	275.0	TS 024
WSHP-CB14	1.5	525	0.5	1/6	110	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB15	2.5	1040	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-CB16	2.5	1040	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-CB17	0.75	250	0.5	1/20	32	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-CB18	1.5	600	0.5	1/6	110	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB19	1	435	0.5	1/8	50	2.6	11.8	7.8	14.7	13.9	13.8	10.5	4.1	170.0	TS 012
WSHP-CB20	0.75	250	0.5	1/20	32	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-CB21	1	400	0.5	1/8	50	2.6	11.8	7.8	14.7	13.9	13.8	10.5	4.1	170.0	TS 012

CORRIDOR & CBOC WSHP NOTES:

1. PROVIDE HIGH STATIC BLOWER ON ALL UNITS CAPABLE OF PROVIDING FULL CFM WITH MERV 13 FILTER AT 50% LIFE. ⚠
2. TS SERIES UNITS TO BE POWERED AT 265/1/60
3. PROVIDE HOT GAS REHEAT ON ALL TT SERIES UNITS
4. TT SERIES UNITS TO BE POWERED AT 460/3/60
5. ALL UNITS TO BE PROVIDED WITH INTEGRAL ELECTRICAL DISCONNECTS
6. UNITS TO BE PROVIDED WITH MERV-8 FILTERS DURING CONSTRUCTION
7. IF UNITS ARE OPERATED DURING CONSTRUCTION, COILS ARE TO BE INSPECTED AND CLEANED AFTER CONSTRUCTION IS COMPLETE. ⚠
8. INSTALL 2" MERV 13 FILTERS AFTER CONSTRUCTION IS COMPLETED AND PRIOR TO T&B.
9. ALL WSHPs USE R-410a REFRIGERANT.
10. VERIFY MAINTENANCE CLEARANCES AND ACCESS. ACTUAL INSTALLED LOCATION OF ALL UNITS TO BE MARKED ON AS-BUILT DRAWINGS FOR REFERENCE BY MAINTENANCE PERSONNEL.
11. ROUTE CONDENSATE LINE SLOPED 1/4" PER FOOT TO NEAREST HUB-DRAIN; PROVIDE CONDENSATE PUMP AND 120VAC POWER TO PUMP WHERE REQUIRED.
12. AUXILLIARY CONDENSATE PANS WITH FLOAT SWITCH.
13. PROVIDE DDC COMPATIBLE TEMPERATURE SENSOR WITH TEMPERATURE DISPLAY AND USER INTERFACE ALLOWING A LOCAL TEMPERATURE ADJUSTMENT OF ± 2 DEGREES. T-STAT DESIGN SETPOINT (@ 74) DEGREES F COOLING, 70 DEGREES F HEATING. ⚠
14. PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR AND DIRTY FILTER SENSOR.
15. VENTILATION FOR ALL WSHPs DUCTED FROM ERVs PER MECHANICAL PLANS UNLESS OTHERWISE NOTED. PROVIDE VOLUME DAMPERS ON THE VENTILATION DUCT. ⚠
16. PROVIDE FOIL LINED INSULATION ON ALL INSULATED SURFACES EXPOSED TO THE AIRSTREAM. EXPOSED FIBERGLASS OR DUCT LINER WILL NOT BE PERMITTED.

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DATE	REVISION
8/18/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/18/11	ADDENDUM 3

PROJECT NO: 229.01.00
DATE: FEB 21TH, 2011
DRAWING TITLE: MECHANICAL SCHEDULES
M3.1D

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CLC 1N WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-1N1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-1N7	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N8	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N9	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N10	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N11	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-1N12	0.5	250	0.5	1/20	30	1.5	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 006
WSHP-1N13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-1N14	2	850	0.5	1/3	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC 2N WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-2N1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-2N7	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N8	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N9	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N10	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N11	0.75	275	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 009
WSHP-2N12	0.5	250	0.5	1/20	30	1.5	9.2	5.6	11.4	14.1	11.3	8.6	4.2	166.0	TS 006
WSHP-2N13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-2N14	2	850	0.5	1/3	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC E WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-E1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E7	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E8	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E9	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E10	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E11	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E12	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-E13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-E14	2	850	0.5	1/3	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC W WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM (FROM ERV)	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-W1	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W2	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W3	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W4	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W5	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W6	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W7	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W8	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W9	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W10	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W11	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W12	0.5	250	0.4	1/25	30	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-W13	5	1875	0.75	1	305	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-W14	2	850	0.5	1/3	335	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024

CLC WSHP NOTES:

1. PROVIDE HIGH STATIC BLOWER ON ALL WSHP'S WITH AN ESP OF 0.4 OR HIGHER, AND TONNAGE OF 1.5 OR HIGHER. PROVIDE WSHPS WITH AN ESP OF LESS THAN 0.4 WITH STANDARD BLOWER.
2. FACTORY PROVIDED 2" FILTER MODULE AND 2" MERV 13 FILTERS FOR ALL WSHP'S SERVING THE CORRIDOR & CLC'S.
3. WSHP FILTER MODULE TO BE SIZED TO HOUSE STANDARD SIZE 2" FILTER(S) THAT ARE DIMENSIONALLY GREATER THAN OR EQUAL TO THE RETURN OPENING OF THE UNIT.
4. TS SERIES UNITS TO BE POWERED AT 265/1/60
5. PROVIDE HOT GAS REHEAT ON ALL TT SERIES UNITS
6. TT SERIES UNITS TO BE POWERED AT 460/3/60
7. ALL WSHP'S TO BE PROVIDED WITH INTEGRAL ELECTRICAL DISCONNECTS
8. ALL WSHP'S TO BE PROVIDED WITH AN ADDITIONAL MERV-8 FILTER(S) FOR USE DURING CONSTRUCTION
9. IF WSHP'S ARE OPERATED DURING CONSTRUCTION, COILS ARE TO BE INSPECTED AND CLEANED AFTER CONSTRUCTION IS COMPLETE.
10. INSTALL 2" MERV 13 FILTERS AFTER CONSTRUCTION IS COMPLETED AND PRIOR TO T&B.
11. ALL WSHPs USE R-410a REFRIGERANT.
12. VERIFY MAINTENANCE CLEARANCES AND ACCESS. ACTUAL INSTALLED LOCATION OF ALL UNITS TO BE MARKED ON AS-BUILT DRAWINGS FOR REFERENCE BY MAINTENANCE PERSONNEL.
13. ROUTE CONDENSATE LINE SLOPED 1/4" PER FOOT TO NEAREST HUB-DRAIN; PROVIDE CONDENSATE PUMP AND 120VAC POWER TO PUMP WHERE REQUIRED.
14. AUXILLIARY CONDENSATE PANS WITH FLOAT SWITCH.
15. PROVIDE DDC COMPATIBLE TEMPERATURE SENSOR WITH TEMPERATURE DISPLAY AND USER INTERFACE ALLOWING A LOCAL TEMPERATURE ADJUSTMENT OF ± 2 DEGREES. T-STAT DESIGN SETPOINT = 74 DEGREES F COOLING, 70 DEGREES F HEATING.
16. PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR AND DIFFERENTIAL PRESSURE SENSOR ACROSS THE FILTER MODULE. MONITOR VIA THE BAS.
15. VENTILATION FOR ALL WSHPs DUCTED FROM ERVs PER MECHANICAL PLANS UNLESS OTHERWISE NOTED. PROVIDE VOLUME DAMPERS ON THE VENTILATION DUCT.
16. PROVIDE FOIL LINED INSULATION ON ALL INSULATED SURFACES EXPOSED TO THE AIRSTREAM. EXPOSED FIBERGLASS OR DUCT LINER WILL NOT BE PERMITTED.

CORRIDOR WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-C1	2.5	1040	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-C2	1.5	650	0.5	1/6	50	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.9	257.0	TS 018
WSHP-C3	2	850	0.5	1/5	135	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024
WSHP-C4	2.5	1075	0.5	1/3	90	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-C5*	3	1250	0.6	1/2	110	6.8	37.0	27.4	45.6	14.7	47.3	38.2	5.2	327.0	TT038
WSHP-C6*	5	1975	0.75	1	400	11.3	61.8	45.6	76.9	14	72.9	56.8	4.5	453.0	TT064
WSHP-C7	2	750	0.5	1/5	80	6.0	25.8	18.6	31.5	15.7	31.7	25.4	5.0	275.0	TS 024
WSHP-C8	1.5	C	0.5	1/6	80	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-C9*	3	1260	0.6	1/2	110	6.8	37.0	27.4	45.6	14.7	47.3	38.2	5.2	327.0	TT038

CBOC & MAINTENANCE WATER SOURCE HEAT PUMP SCHEDULE

MARK	NOM. TONS	TOTAL CFM	ESP in wc	FAN MOTOR HP	OA CFM	GPM	TOTAL CAPACITY (MBH @ 85°)	SENSIBLE CAPACITY (MBH @ 85°)	HEAT OF REJECTION (MBH)	EER	HEATING CAPACITY (MBH @ 70°CW, 70°AIR)	HEAT OF EXTRACTION (MBH)	COP	WEIGHT LBS	CLIMATEMASTER HEAT PUMP MODEL#
WSHP-CB1	4	1640	0.75	1	281	9.0	48.6	33.8	59.8	14.8	61.7	49.7	5.1	416.0	TT049
WSHP-CB2	4	1640	0.75	1	281	9.0	48.6	33.8	59.8	14.8	61.7	49.7	5.1	416.0	TT049
WSHP-CB3	2	890	0.5	1/3	256	4.0	25.1	18.4	31.1	14.4	30.5	24.3	4.9	275.0	TS 024
WSHP-CB4	1.5	580	0.5	1/5	115	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB5	0.5	240	0.25	1/25	113	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	146.0	TS 006
WSHP-CB6	2	765	0.5	1/3	283	4.0	24.1	15.4	29.9	14.3	29.7	22.9	4.4	266.0	TS 024
WSHP-CB7	2.5	1040	0.5	1/2	160	6.0	29.0	20.2	35.8	14.6	36	28.5	4.8	276.0	TS 030
WSHP-CB8	0.75	315	0.4	1/20	98	1.4	9.1	6.6	11.6	12.9	11.2	8.7	4.6	166.0	TS 009
WSHP-CB9	1.5	660	0.5	1/5	119	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB10	1.5	650	0.5	1/5	161	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB11	1.5	660	0.5	1/5	207	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-CB12	0.75	265	0.5	1/20	68	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	156.0	TS 009
WSHP-CB13	1.5	575	0.5	1/5	148	4.1	18.5	12.9	23.1	13.8	24	19.1	4.9	257.0	TS 018
WSHP-CB14	0.5	240	0.25	1/25	153	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-CB15	1.5	565	0.5	1/5	146	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB16	2	640	0.25	1/5	340	4.0	24.1	15.4	29.9	14.3	29.7	22.9	4.4	276.0	TS 024
WSHP-CB17	0.5	220	0.5	1/25	72	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	136.0	TS 006
WSHP-CB18	1.5	550	0.5	1/5	125	2.8	17.8	12.6	22.7	12.5	22.9	18.1	4.8	257.0	TS 018
WSHP-CB19	0.5	240	0.25	1/25	150	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	146.0	TS 006
WSHP-CB20	0.75	300	0.25	1/20	169	2.1	9.5	6.7	11.8	14.2	11.6	9.2	4.7	156.0	TS 009
WSHP-CB21	0.5	240	0.25	1/25	103	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	146.0	TS 006
WSHP-CB22	0.75	300	0.25	1/20	180	2.1	9.5	6.7	11.8	14.2	11.6	9.2	4.7	156.0	TS 009
WSHP-CB23	0.5	240	0.25	1/25	150	1.5	6.2	5.0	7.7	13.9	7.9	6.3	4.8	146.0	TS 006
WSHP-CB24	0.5	180	0.25	1/25	107	1.5	5.9	4.2	7.4	13.8	7.7	5.9	4.2	146.0	TS 006
WSHP-CB25	0.75	250	0.5	1/20	30	2.1	9.2	5.6	11.4	14.1	11.3	8.6	4.2	156.0	TS 009
WSHP-CB26	1	355	0.5	1/8	80	2.6	11.8	7.8	14.7	13.9	13.8	10.5	4.1	170.0	TS 012

CORRIDOR & CBOC WSHP NOTES:

1. PROVIDE HIGH STATIC BLOWER ON ALL WSHP'S WITH AN ESP OF 0.4 OR HIGHER, AND TONNAGE OF 1.5 OR HIGHER. PROVIDE WSHPS WITH AN ESP OF LESS THAN 0.4 WITH STANDARD BLOWER.
2. FACTORY PROVIDED 2" FILTER MODULE AND 2" MERV 13 FILTERS FOR ALL WSHP'S WITH AN ESP OF 0.4 OR HIGHER. PROVIDE WSHP'S WITH AN ESP OF LESS THAN 0.4 WITH MERV-8 FILTERS.
3. WSHP FILTER MODULE TO BE SIZED TO HOUSE STANDARD SIZE 2" FILTER(S) THAT ARE DIMENSIONALLY GREATER THAN OR EQUAL TO THE RETURN OPENING OF THE UNIT.
4. TS SERIES UNITS TO BE POWERED AT 265/1/60
5. PROVIDE HOT GAS REHEAT ON ALL TT SERIES UNITS
6. TT SERIES UNITS TO BE POWERED AT 460/3/60
7. ALL WSHP'S TO BE PROVIDED WITH INTEGRAL ELECTRICAL DISCONNECTS
8. ALL WSHP'S TO BE PROVIDED WITH AN ADDITIONAL MERV-8 FILTER(S) FOR USE DURING CONSTRUCTION
9. IF WSHP'S ARE OPERATED DURING CONSTRUCTION, COILS ARE TO BE INSPECTED AND CLEANED AFTER CONSTRUCTION IS COMPLETE.
10. INSTALL 2" MERV 13 FILTERS AFTER CONSTRUCTION IS COMPLETED AND PRIOR TO T&B.
11. ALL WSHPs USE R-410a REFRIGERANT.
12. VERIFY MAINTENANCE CLEARANCES AND ACCESS. ACTUAL INSTALLED LOCATION OF ALL UNITS TO BE MARKED ON AS-BUILT DRAWINGS FOR REFERENCE BY MAINTENANCE PERSONNEL.
13. ROUTE CONDENSATE LINE SLOPED 1/4" PER FOOT TO NEAREST HUB-DRAIN; PROVIDE CONDENSATE PUMP AND 120VAC POWER TO PUMP WHERE REQUIRED.
14. AUXILLIARY CONDENSATE PANS WITH FLOAT SWITCH.
15. PROVIDE DDC COMPATIBLE TEMPERATURE SENSOR WITH TEMPERATURE DISPLAY AND USER INTERFACE ALLOWING A LOCAL TEMPERATURE ADJUSTMENT OF ± 2 DEGREES. T-STAT DESIGN SETPOINT = 74 DEGREES F COOLING, 70 DEGREES F HEATING.
16. PROVIDE A DISCHARGE AIR TEMPERATURE SENSOR AND DIFFERENTIAL PRESSURE SENSOR ACROSS THE FILTER MODULE. MONITOR VIA THE BAS.
15. VENTILATION FOR ALL WSHPs DUCTED FROM ERVs PER MECHANICAL PLANS UNLESS OTHERWISE NOTED. PROVIDE VOLUME DAMPERS ON THE VENTILATION DUCT.
16. PROVIDE FOIL LINED INSULATION ON ALL INSULATED SURFACES EXPOSED TO THE AIRSTREAM. EXPOSED FIBERGLASS OR DUCT LINER WILL NOT BE PERMITTED.

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ROOM VENTILATION SCHEDULE

⊖ NEGATIVE
⊕ POSITIVE
◎ NEUTRAL

	ROOM NAME - NUMBER	ROOM AREA SQFT	MINIMUM REQ'D OA ACH	MINIMUM REQ'D OA CFM	DESIGN O.A. SUPPLIED CFM	MINIMUM REQ'D TOTAL AIR CHANGES QTY	MINIMUM REQ'D TOTAL AIR CHANGES CFM	DESIGN AIR CHANGES SUPPLIED CFM	RELATIVE PRESSURE	100% EXHAUST
WSHP-CB5	EXAM - 031	120	2	36	37.5	6	108	110	NEUTRAL	NO
	EXAM - 032	120	2	36	37.5	6	108	110	NEUTRAL	NO
	TELERETINAL EYE - 039	120	2	36	37.5	6	108	110	NEUTRAL	NO
WSHP-CB23	EXAM - 043	120	2	36	37.5	6	108	110	NEUTRAL	NO
	EXAM - 044	120	2	36	37.5	6	108	110	NEUTRAL	NO
	EXAM - 048	120	2	36	37.5	6	108	110	NEUTRAL	NO
	EXAM - 049	120	2	36	37.5	6	108	110	NEUTRAL	NO
WSHP-CBXXX	TELE MED - 071	120	2	36	37.5	6	108	110	NEUTRAL	NO
	OMNI CELL - 070	70	2	21	22	4	42	65	POSITIVE	NO
	MEDICATION - 073	70	2	21	22	4	42	65	POSITIVE	NO
	BIO - 060	50	-	-	-	10	75	20sup/100exh	NEGATIVE	YES
	SOILED UTILITY - 061	78	2	24	24	10	117	75sup/150exh	NEGATIVE	YES
WSHP-CB21	CLEAN UTILITY - 055	110	2	33	34	4	66	100	POSITIVE	NO
	STRETCHER - 058	225	2	67.5	69.7	6	202.5	205	NEUTRAL	NO
WSHP-CB08	PATIENT TOILET - 081	56	--	--	--	10	85	25sup/100exh	NEGATIVE	YES
	LAB & BLOOD DRAW - 080,082	295	2	90	91	6	265	275	NEGATIVE	NO
WSHP-CB04	RADIOLOGY - 083	355	2	107	110	6	320	530	NEUTRAL	NO
	PATIENT TOILET - 084	60	--	--	--	10	90	25sup/100exh	NEGATIVE	YES
WSHP-CB14	VISUAL FIELD - 090	90	2	27	27	6	81	85	NEUTRAL	NO
	EYE DISP. - 088	120	2	36	36	6	108	110	NEUTRAL	NO
	EYE EXAM - 087	145	2	44	45	6	131	135	NEUTRAL	NO
	EYE EXAM - 089	145	2	44	45	6	131	135	NEUTRAL	NO
WSHP-CB20	POD EXAM - 130	120	2	36	36	6	108	110	NEUTRAL	NO
	POD EXAM - 131	120	2	36	36	6	108	110	NEUTRAL	NO
	CLEAN UTILITY - 134	95	2	28.5	29.7	4	57	90	POSITIVE	NO
	SOILED UTILITY - 133	82	2	25	26	10	123	80sup/150exh	NEGATIVE	YES
	POD STER. SUPPLY - 129	17	2	5.1	6.25	4	10.2	25	POSITIVE	NO
	PROSTHETIC STOR. - 128	82	2	25	26	4	57	80	POSITIVE	NO
WSHP-CB16	PHYSICAL THERAPY - 092	1042	2	313	321	6	938	950	NEGATIVE	NO
	PHYSICAL THERAPY SUP - 093	56	2	17	18.5	6	50.4	55	NEGATIVE	NO
WSHP-CB22	OPERATORY - 095	120	3	55	67.5	15	270	270	POSITIVE	NO
	OPERATORY - 096	120	3	55	67.5	15	270	270	POSITIVE	NO
	LAB - 099	128	2	39	40	6	115	160	NEGATIVE	NO
	SOIL - 153	6.5	-	-	-	10	10	25	NEGATIVE	YES
	STER - 152	6.5	2	2	5	4	10	20	POSITIVE	NO
WSHP-CB17	EXAM - 104	120	2	36	36	6	108	108	NEUTRAL	NO
	EXAM - 105	120	2	36	36	6	108	108	NEUTRAL	NO
WSHP-CB19	AUDIO WORK - 150	35	2	10	11.7	4	20	35	NEUTRAL	NO
	CONTROL - 119	80	2	24	27	6	64	80	NEUTRAL	NO
	CONTROL - 118	80	2	24	27	6	64	80	NEUTRAL	NO
	AUDIO - 120	70	2	20	25	6	56	75	NEUTRAL	NO
	AUDIO - 117	70	2	20	25	6	56	75	NEUTRAL	NO
	AUDIOLOGY EXAM - 121	102	2	30	33.7	6	92	100	NEUTRAL	NO

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CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/18/11	ADDENDUM 3
4/28/11	REVISION 1

PROJECT NO: 229.01.00

DATE: FEB 21TH, 2011

DRAWING TITLE: MECHANICAL SCHEDULES

M3.11

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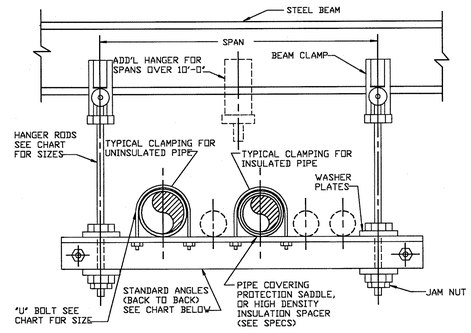


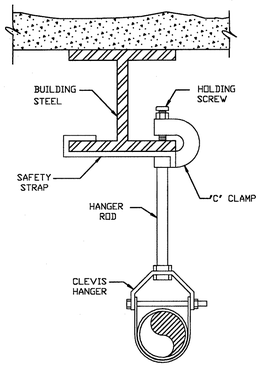
TRAPEZE HANGER DETAIL

NOT TO SCALE

PIPE SIZE	"U" BOLT SIZE
UP TO 1"	1/4"
1 1/4" TO 4"	3/8"
6" TO 10"	5/8"

ANGLE SIZING FOR SPANS UP TO 10' (LOAD EQUALLY DISTRIBUTED)		
LOAD ON TRAPEZE (LB)	ANGLE SIZE (BACK TO BACK)	HANGER ROD SIZE
0-500	1-1/2" X 1-1/2" X 1/4"	3/8"
600-1200	2" X 2" X 1/4"	1/2"
1300-2000	2-1/2" X 2-1/2" X 1/4"	5/8"

NOTE: 1. BOLT ANGLES TOGETHER AT EACH HANGER WITH BOLTS THE SAME SIZE AS THE HANGER RODS.
2. USE ROLLER CHAIR UNDER HOT PIPING WITH MORE THAN 1/2" THERMAL EXPANSION.



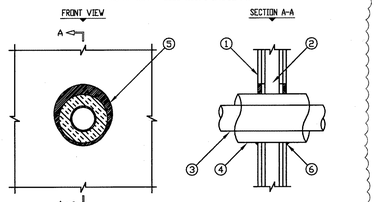
TYPICAL HANGER FROM STEEL FOR PIPES 4" AND SMALLER

NOT TO SCALE

UL/cUL SYSTEM NO. W-L-5029

INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. AND 2-HR.
T-RATING = 1/2-HR., 3/4-HR., 1-HR., AND 1-3/4 HR. (SEE UL FIRE RESISTANCE DIRECTORY)
L-RATING AT AMBIENT = 4 CFM/SQ. FT.
L-RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. CUT SHOWN. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

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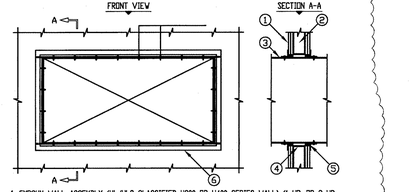
UL/cUL SYSTEM NO. W-L-7040

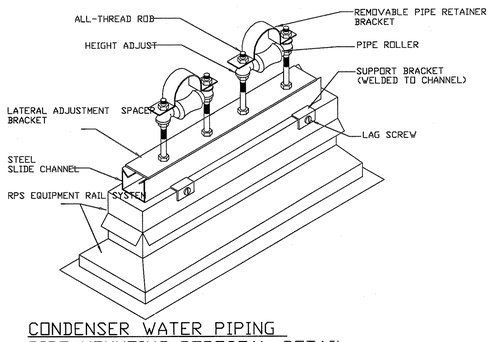
METAL DUCT (WITHOUT DAMPER) THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.



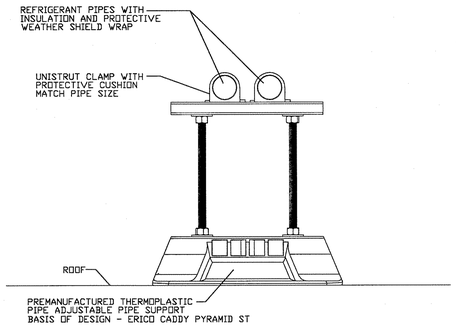
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES WALL) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. CUT SHOWN. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. RECTANGULAR SHEET METAL DUCT (MAXIMUM SIZE : 24" x 48", MINIMUM 24 GA. THICKNESS). CUT-OUT : NOT FOR USE IN DUCT SYSTEMS CONTAINING A FIRE DAMPER.
4. OPENING TO BE "FRAMED OUT" WITH LIGHTGAGE METAL FRAMING STUDS.
5. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT, OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
6. SEE NOTE NO. 3 BELOW.

NOTES : 1. MAX. AREA OF OPENING = 1244 SQ. IN. WITH A MAXIMUM DIMENSION OF 49-1/4 IN.
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 1".
3. AFTER SEALING SPACE BETWEEN DUCT AND GYPSUM WALL ASSEMBLY WITH HILTI FIRESTOP SEALANT, FASTEN STEEL ANGLE (MINIMUM 1-1/2" x 1-1/2" x 16 GA) TO DUCT WITH MINIMUM NO. 8 x 3/4" LONG SHEET METAL SCREWS. ANGLE DOES NOT HAVE TO BE FASTENED TO THE WALL ASSEMBLY.



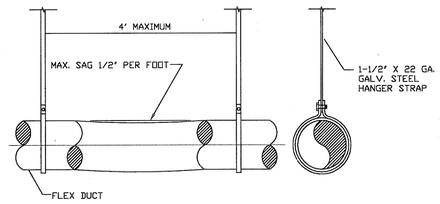
CONDENSER WATER PIPING PIPE MOUNTING PEDESTAL DETAIL

NOT TO SCALE



REFRIGERANT PIPING SUPPORT DETAILS

NOT TO SCALE

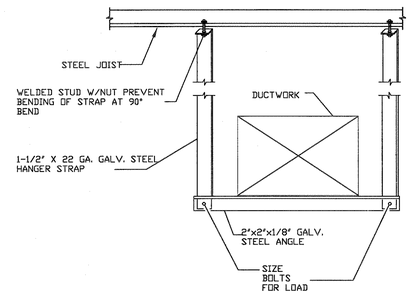


FLEX DUCT HANGER

NOTES:

1.) DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.

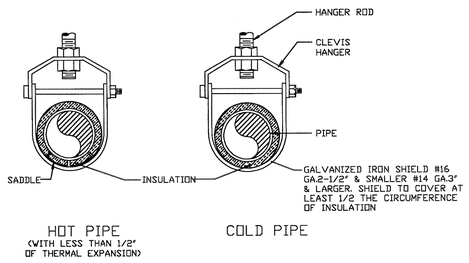
2.) SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR INSULATION AND MUST CAUSE OUT OF ROUND SHAPE.



TRAPEZE HANGER

TYPICAL DUCT HANGING DETAILS

NOT TO SCALE

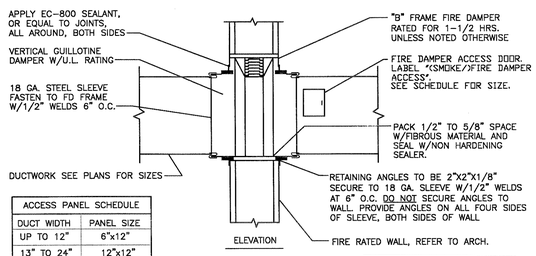


HOT PIPE
(WITH LESS THAN 1/2" OF THERMAL EXPANSION)

COLD PIPE

TYPICAL PIPE HANGERS FOR INSULATED PIPES

NOT TO SCALE

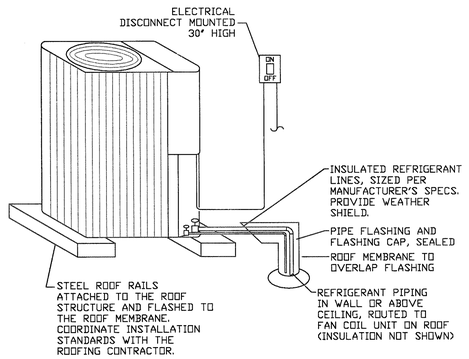


ACCESS PANEL SCHEDULE	
DUCT WIDTH	PANEL SIZE
UP TO 12"	6"x12"
13" TO 24"	12"x12"
25" & OVER	18"x18"

NOTES:
1. INSTALL FIRE DAMPER IN ACCORDANCE WITH N.F.P.A. PAMPHLET NO. 90 A.
2. FIRE DAMPERS TO BE RATED FOR 1-1/2 HRS. UNLESS NOTED OTHERWISE.
3. SMOKE/FIRE DAMPERS HAVE INTEGRAL SMOKE DETECTORS.

FIRE OR SMOKE/FIRE DAMPER AT WALL

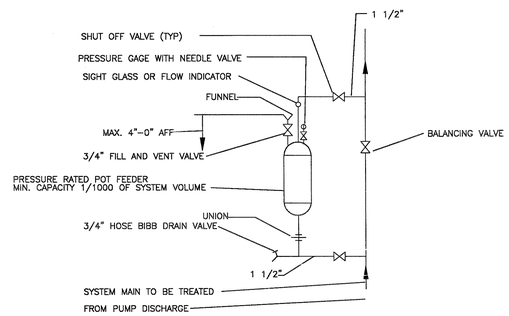
NOT TO SCALE



CONDENSING UNIT ON THE ROOF

NOT TO SCALE

COORDINATE ALL WORK ON THE ROOF WITH OWNER'S ROOFING CONTRACTOR



CHEMICAL POT FEEDER

NOT TO SCALE

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3/18/11	ADDENDUM 3

PROJECT NO: 229.01.00

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DRAWING TITLE: MECHANICAL DETAILS

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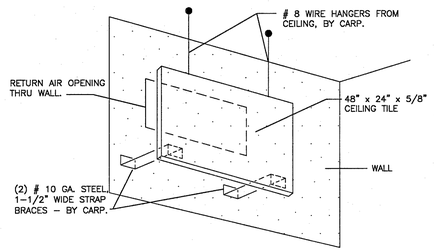
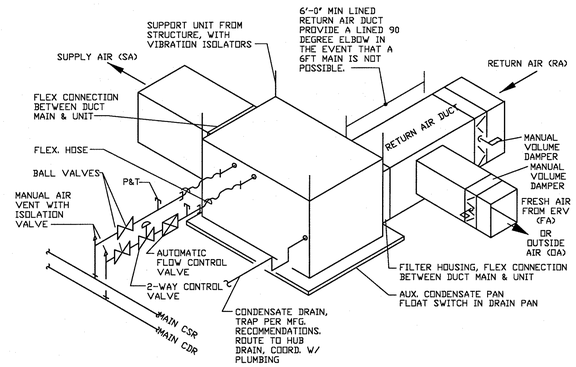


RETURN AIR TRANSFER BAFFLE PLATE DETAIL

NOT TO SCALE
PROVIDE AT ALL FULL HEIGHT WALLS. SIZE FOR 300FPM MAX

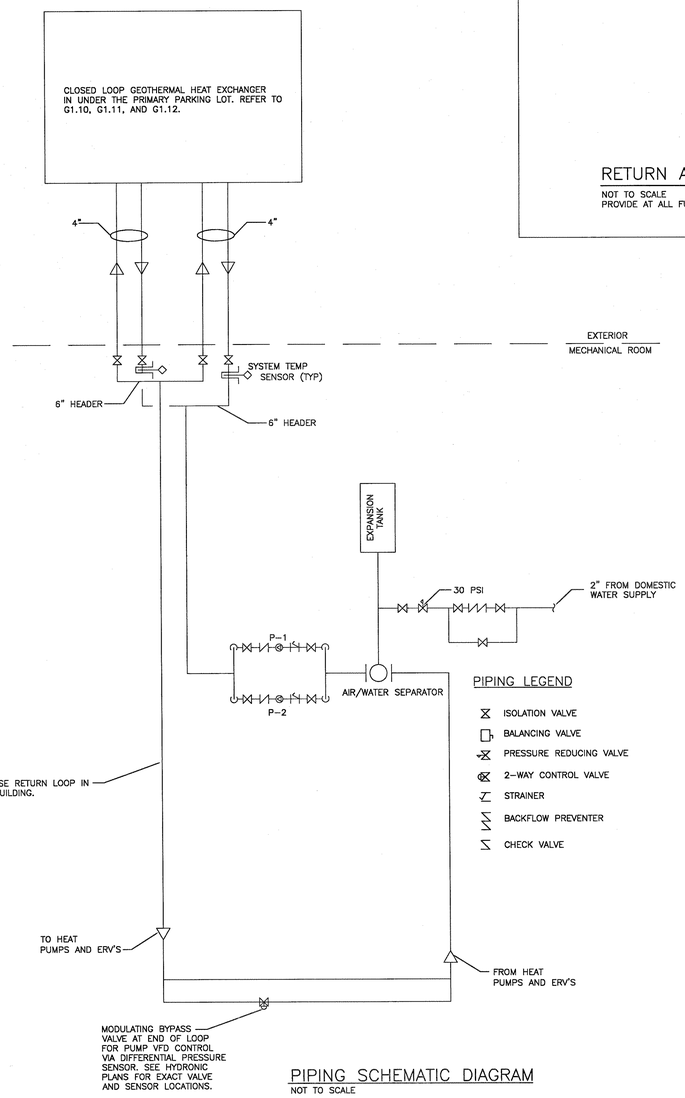


NOTES:

1. BAS TO ALLOW HEAT PUMP OPERATION ONLY WHEN FLOW HAS BEEN CONFIRMED AT THE PUMPS AND DIFFERENTIAL PRESSURE SENSOR IN THE PIPING (NEAR THE BYPASS VALVE) IS WITHIN THE APPROPRIATE RANGE (SFT MIN.).
2. CONTRACTOR RESPONSIBLE FOR COORDINATING CONFIGURATION OF UNIT (LEFT-HAND/RIGHT-HAND RETURN, ETC.) AND VERIFYING MAINTENANCE ACCESS FOR FILTER, ELECTRICAL CONNECTIONS, COMPRESSOR, & COIL.
3. MAX PRESSURE DROP THROUGH BRANCH PIPING ASSEMBLY = 3PSI. FLOW CONTROL VALVE TO BE ACCURATE TO +/- 5% INDEPENDENT OF SYSTEM PRESSURE.

WATER-SOURCE HEAT PUMP (WSHP) DETAIL HORIZONTAL POSITION MOUNTED ABOVE CEILING

NOT TO SCALE

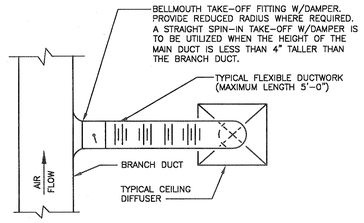


PIPING LEGEND

- ISOLATION VALVE
- BALANCING VALVE
- PRESSURE REDUCING VALVE
- 2-WAY CONTROL VALVE
- STRAINER
- BACKFLOW PREVENTER
- CHECK VALVE

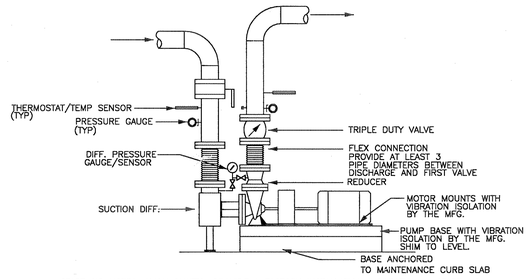
PIPING SCHEMATIC DIAGRAM

NOT TO SCALE



TYPICAL FLEX TAKE-OFF

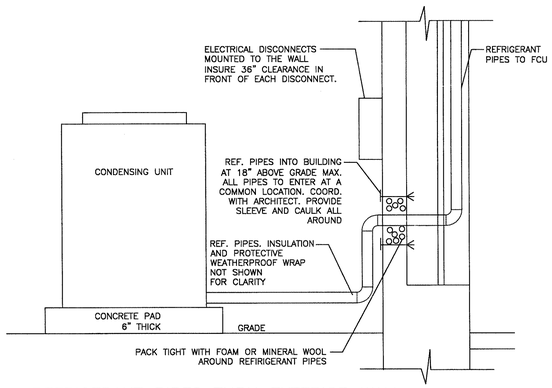
NOT TO SCALE
NOTE: MINIMUM 2'-0" BETWEEN TAKE OFF'S



START-UP NOTES: ALIGN SHAFTS, PROVIDE A FACTORY INSTALLATION INSPECTION & START-UP CLEAN SUCTION DIFFUSER STRAINER AFTER START-UP

BASE MOUNTED PUMP DETAIL

SCALE: NTS



REFRIGERANT PIPES THRU EXTERIOR WALL

NOT TO SCALE

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/30/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID

PROJECT NO.
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DATE
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DRAWING TITLE
MECHANICAL DETAILS

M3.21

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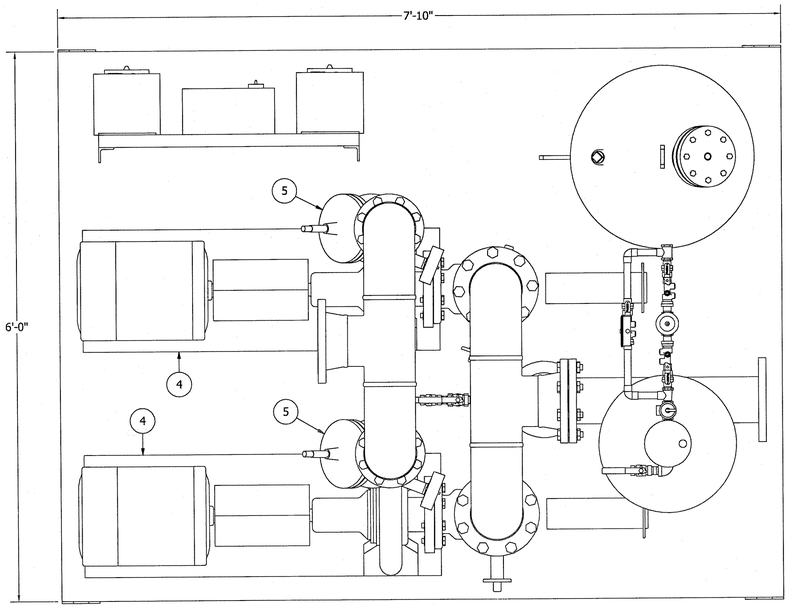
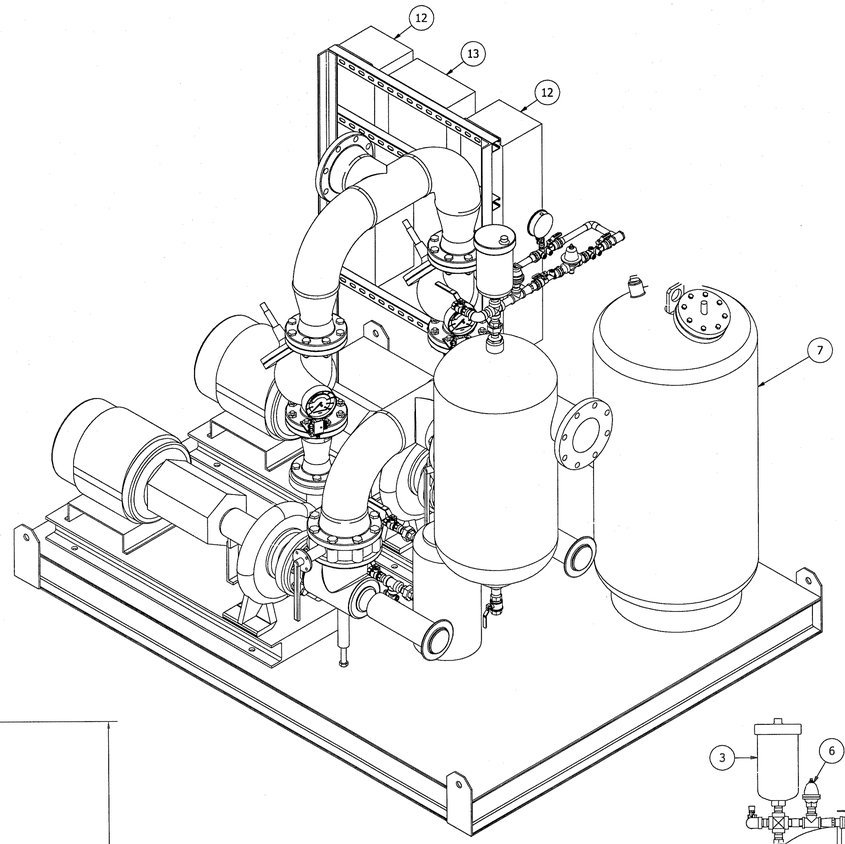
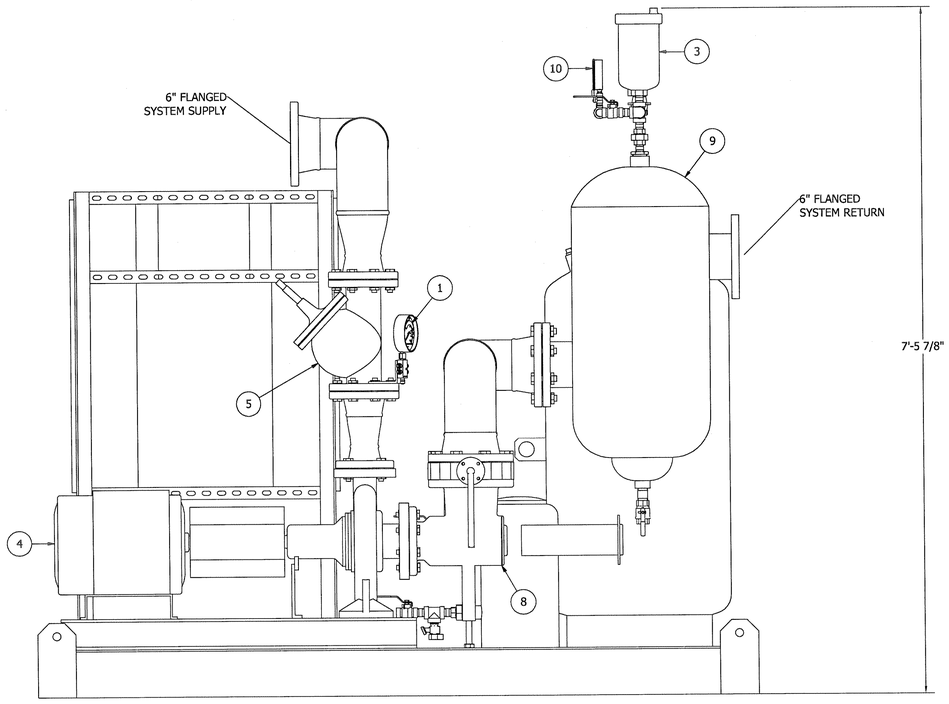
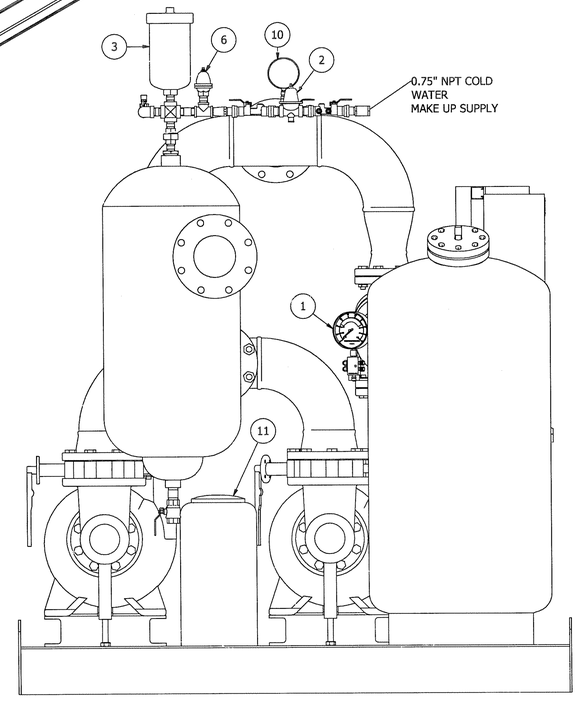




ITEM	QTY	DESCRIPTION
1	2	2 PORT HYDRONIC INDICATOR
2	1	B&G B7-12 PRESSURE REDUCING VALVE
3	1	B&G MODEL 107A AIR VENT
4	2	B&G MODEL 1510 3G 15HP 254T
5	2	B&G MODEL 3DS-4S TDV
6	1	B&G MODEL 790-125 ASME RELIEF VALVE
7	1	B&G MODEL B-300 ASME EXPANSION TANK
8	2	B&G MODEL GE-3X (6x4) SUCTION DIFFUSER
9	1	B&G SEDIMENT REMOVAL SEPARATOR 6F
10	1	ENFM 6211 0-100 PSI PRESSURE GAUGE
11	1	NEPTUNE MODEL VTF-5HP CHEMICAL FEEDER
12	2	SFLEX AFD 15 HP 460V W/BYPASS AND BACNET COMMUNICATIONS
13	1	SINGLE POINT POWER PANEL 460V





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TRINKA DAVIS VETERAN'S VILLAGE

CARROLLTON GA 30117

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DRAWING TITLE:
PUMP PACKAGE DETAILS

M3.22

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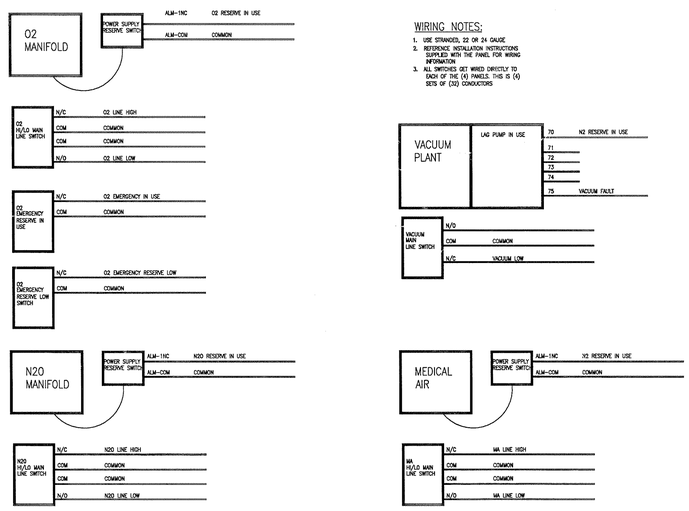
MEDICAL GAS EQUIPMENT SCHEDULE

COLOR CODE	DESCRIPTION	VALVE SIZE	GAS SERVICE	SERVICE PRESSURE	MANUFACTURER/ MODEL #
	LIFELINE OIL-LESS O_2 ASSURED CLAW MEDICAL VACUUM BASE MOUNT SINGLE PORT CONNECTION DUPLEX SYSTEM				
	VACUUM SWITCHES FOR ALARM SYSTEMS				
	GAS SPECIFIC PRESSURE SWITCH FOR 50-55 PSIG SYSTEMS		OXYGEN		
	GAS SPECIFIC PRESSURE SWITCH FOR 50-55 PSIG SYSTEMS		NITROUS OXIDE		
	HOSE ASSEMBLIES - PIN INDEX VALVE - O_2				
	HOSE ASSEMBLIES - PIN INDEX VALVE - N_2O				
	HOSE ASSEMBLIES - PIN INDEX VALVE - VAC 5/16" ID				
	HOSE ASSEMBLIES - PIN INDEX VALVE - WAG				
	HOSE ASSEMBLIES - PIN INDEX VALVE - N_2				
	HEAVY DUTY, DOUBLE RETRACTOR FOR ALL PRESSURE AND VACUUM SERVICE.				
WHITE	SERIES B RECESSED MEDICAL GAS WALL OUTLET DISS KEY STYLE		O_2		
BLUE	SERIES B RECESSED MEDICAL GAS WALL OUTLET DISS KEY STYLE		N_2O		
WHITE	SERIES B RECESSED MEDICAL GAS WALL OUTLET DISS KEY STYLE		VAC		
BLACK	SERIES B RECESSED MEDICAL GAS WALL OUTLET DISS KEY STYLE		N_2		
PURPLE	SERIES B RECESSED MEDICAL GAS WALL OUTLET DISS KEY STYLE		WAGD		
	AUTOMATIC SWITCHOVER MEDICAL GAS MANIFOLD WITH AUTOMATIC RESET (LIFELINE)		NITROUS OXIDE	55 PSIG	
	AUTOMATIC SWITCHOVER MEDICAL LIQUID MANIFOLD WITH AUTOMATIC RESET (LIFELINE)		OXYGEN	55 PSIG	
	HIGH PRESSURE RESERVE ASSEMBLY FOR LQ X LQ AND LQ X HP LIFETIME MANIFOLDS		OXYGEN	70 PSIG	
	TRIPLE ZONE VALVE AND BOX ASSEMBLY				
	DOUBLE ZONE VALVE AND BOX ASSEMBLY OR ZVB				
	DOUBLE ZONE VALVE AND BOX ASSEMBLY RECOVERY PRE-POST OP ZVB				
	SHUT-OFF VALVE ASSEMBLY	1/2"			
	SHUT-OFF VALVE ASSEMBLY	3/4"			
	SHUT-OFF VALVE ASSEMBLY	1"			
	SHUT-OFF VALVE ASSEMBLY	1-1/4"			
	SHUT-OFF VALVE ASSEMBLY	1-1/2"			
	SHUT-OFF VALVE ASSEMBLY	2"			
	SHUT-OFF VALVE ASSEMBLY	2-1/2"			
	DUAL PORT SHUT-OFFWITH LOCKING HANDLE	1/2"			
	DUAL PORT SHUT-OFFWITH LOCKING HANDLE	3/4"			
	DUAL PORT SHUT-OFFWITH LOCKING HANDLE	1"			
	DUAL PORT SHUT-OFFWITH LOCKING HANDLE	1-1/4"			
	DUAL PORT SHUT-OFFWITH LOCKING HANDLE	2"			
WHITE	SERIES B RECESSED MEDICAL GAS WALL OUTLET DIAMOND QUICK-CONNECT KEY STYLE		O_2		
WHITE	SERIES B RECESSED MEDICAL GAS WALL OUTLET DIAMOND QUICK-CONNECT KEY STYLE		VAC		
	SERIES B RECESSED MEDICAL GAS WALL OUTLET DIAMOND QUICK-CONNECT KEY STYLE - SLIDE				

MEDICAL GAS LEGEND

—— V ——	VACUUM PIPING
——02——	OXYGEN PIPING
——NO2——	NITROUS OXIDE PIPING
—— MA ——	MEDICAL AIR PIPING
▭	ALARM PANEL
▭	ZONE VALVE

1. PATTERSON
   1. OIL-LESS ASSURED MEDICAL VACUUM BASE MOUNT SINGLE POINT CONNECTION (SPC) DUPLEX SYSTEM (5-15 HP).
      - A. VACUUM SYSTEM: THE DUPLEX MEDICAL VACUUM SYSTEM IS FULLY COMPLIANT WITH THE LATEST EDITION OF NFPA 99. THE PACKAGE CONSIST OF TWO "OIL-LESS"" ROTARY CLAW VACUUM PUMPS, A CONTROL PANEL, AND A RECIEVER SIZED FOR APPROPRIATE DEMAND ALL MOUNTED ON A COMMON BASE FRAME. THE RECEIVER IS ASME CODED AND HAS A THREE-VALVE BYPASS SYSTEM TO ALLOW FOR DRAINING OF THE RECIEVER WITHOUT INTERRUPTING THE VACUUM SERVICE. A MANUAL DRAIN IS PROVIDED ON THE RECEIVER. EACH PUMP AND THE RECEIVER IS CONNECTED TO A COMMON INTAKE MANIFOLD. A SINGLE POINT OF CONNECTION TO THE ELECTRICAL PANEL OF THE SYSTEM OS ALSO PROVIDED. THE PACKAGE IS COMPLETELY TESTED PRIOR TO SHIPMENT.
      - B. VACUUM PUMP: EACH PUMP IS A DIRECT DRIVEN, NON-CONTACTING CLAW TYPE, CAPABLE OF OPERATING AT 27" HG (SEA LEVEL) CONTINUOUS DUTY FOR A 5 HP, AND 22.5" HG (SEA LEVEL) CONTINUOUS DUTY FOR THE 7.5, 10 & 15 HP. THE PUMPING CHAMBER IS OIL FREE. THE PUMP IS COMPLETELY AIR-COOLED WITH NO WATER REQUIREMENTS. THE PUMP IS AN INLET AIR FILTER AND IS EQUIPPIED WITH A VACUUM RELIEF VALVE, CHECK VALVE TO PREVENT BACKFLOW THROUGH OFF-CYCLE UNITS, FLEXABLE CONNECTOR, INSOLATION VALVE, HIGH DISCHARGE TEMPERATURE SWITCH, HIGH INLET VACUUM SWITCH, OIL DRAIN VALVE, OIL SIGHT GLASS, AND EXHAUST MUFFLER AT EACH PUMP LOCATION.
      - C. VACUUM PUMP DRIVE: THE PUMP IS DIRECT DRIVEN. TORQUE IS TRANSMITTED FROM THE MOTOR TO THE PUMP THROUGH A SHAFT COUPLING. THE CLAWS ARE SYNCHRONIZED BY HEAVY-DUTY PRECISION TIMING GEARS.
      - D. VACUUM PUMP MOTOR: THE MOTOR IS A CONTINUOUS DUTY, NEMA RATED, C-FACE, TEFC, 3450 RPM, SUITABLE FOR 208 OR 240/480V, GO HERTZ, 3-PHASE ELECTRICAL SERVICE.
      - E. INTAKE PIPING: EACH VACUUM PUMP HAS A FACTORY PIPED INTAKE WITH INTEGRAL FLEX CONECTOR, INSOLATION VALVE, AND CHECK VALVE. INTERCONNECTING PIPING CONSIST OF BLACK IRON PIPE AND FITTINGS.
      - F. VACUUM RECEIVER: THE VACUUM RECIEVER IS ASME CODE STAMPED, AND RATED FOR A MINIMUM 150 PSIG DESIGN PRESSURE.
      - G. CONTROL SYSTEM: THE DUPLEX CONTROL SYSTEM IS NEMA 12 AND U.L. LABELED THE CONTROL SYSTEM PROVIDES AUTOMATIC LEAD/LAG SEQUENCING, CIRCUIT BREAKER DISCONNECTS WITH EXTERNAL OPERATORS FOR EACH VACUUM PUMP, FULL VOLTAGE STARTERS WITH OVERLOAD PROTECTION, AND REDUNDANT 120V CONTROL CIRCUIT TRANSFORMERS. THE CONTROL SYSTEM PROVIDES VISUAL AND AUDIBLE RESERVE UNIT ALARM FOR HIGH DISCHARGE TEMPERATURE AND HIGH INLET VACUUM SHUTDOWNS WITH ISOLATED CONTACTS FOR REMOTE ALARM, HAND-OFF-AUTO LIGHTED SELECTOR SWITCHES AND RUNTIME HOURMETER. A PROGRAMMABLE LOGIC CONTROLLER (PLC) CONTROLS THE AUTOMATIC ALTERATION OF THE VACUUM PUMPS WITH PROVISIONS FOR SIMILTANEOUS OPERATION ALONG WITH THE AUTOMATIC ACTIVATION OF RESERVE UNIT IF REQUIRED. A VACUUM GAUGE IS PROVIDED IN THE CONTROL PANEL.
      - G. OXYGEN COMPATIBILITY: EACH VACUUM PUMP IS CAPABLE OF OPERATING SAFELY WITH UP TO 60% OXYGEN CONTENT IN THE COMPRESSION CHAMBER. ALL PARTS IN CONTACT WITH THE FLOW STREAM, GEAR CASING AND BEARING SURFACES AND CLEANED WITH OXYGEN COMPATIBLE CLEANER. THE PUMP IS ASSEMBLED AND TESTED IN A CLEAN ROOM WITH DEDICATED TOOLS. THE INLET FILTER IS CONSTRUCTED OF A FIBERGLASS MEDIA TO ENSURE THERE IS NO FUEL TO IGNITE IN THE COMPRESSION CHAMBER. THE LUBRICANT IN THE GEAR CASING AS WELL AS THE GREASE USED TO LUBRICATE THE BEARINGS (10 & 15 HP MODELS ONLY) IS A SPECIAL COMPATABLE FORMULA.
   2. HOSE ASSEMBLIES, VALVES, FITTINGS, AND COMPONENTS
      - A. FITTINGS AND COMPONENTS: ALL BEACONMEDAES DISS VALVES, BODIES, NUTS AND NIPPLES ARE MANUFACTURED TO COMPLY WITH THE LATEST EDITION OF CGA V-5. DIAMETER INDEX SAFETY SYSTEM (NON-INTERCHANGEABLE LOW PRESSURE CONNECTIONS FOR MEDICAL GAS APPLICATIONS)
      - B. GAS SPECIFIC DISS VALVE OR DISS BODY: DISS BODY: WHEN THE DISS NUT AND NIPPLE ARE DISCONNECTED DAS WILL CONTINUE TO FLOW. DISS VALVE: CONTAINS A VALVE MECHANISM AND BEGANS TO FLOW GAS WHEN THE DISS NUT AND NIPPLE ARE CONNECTED AND STOPS FLOW WHEN DISS NUT AND NIPPLE ARE DISCONNECTED. DISS VALVES AND VALVE BODIES ARE AVAILABLE WITH 1/4-18 NPT MALE THREADS, 1/8-27 NPT MALE THREADS OR BARBED ENDS FOR INSTALLATION IN HOSE ASSEMBLIES.
      - C. GAS SPECIFIC DISS NIPPLES: THE GAS SPECIFIC DISS NIPPLE MATES WITH THE GAS SPECIFIC DISS VALVE OR VALVE BODY. THEY ARE SUPPLIED WITH O-RINGS WHERE REQUIRED ANC ARE AVAILABLE WITH 1/8 - 27 NPT MALE THREADS OR BARBED ENDS FOR INSTALLATION HOSE ASSEMBLIES
      - D. DISS NUT: THE DISS NUT IS USED TO SECURE THE DISS NIPPLE TO THE VALVE OR VALVE BODY. OFTEN TIMES THE DISS NUT MAY BE USED ON SEVERAL DIFFERENT GASES. THE VALVE OR BODY AND THE COMPONENTS TO MAKE THE SYSTEM GAS SPECIFIC.
   3. SERIES B RECESSED MEDICAL GAS WALL OUTLET DISS KEY STYLE.
      - A. DISS MEDICAL GAS WALL OUTLET: THE DISS MEDICAL GAS WALL OUTLETS SHALL BE GAS SPECIFIC FOR THE SERVICES INDICATED AND ACCEPT ONLY CORRESPONDING DISS NUTS AND NIPPLES. THE OUTLETS SHAL BE UL LISTED, CSA CERTIFIED, AND BE FULLY COMPLIANT WITH THE LATEST EDITION OF NFPA 99. ALL OUTLETS SHALL BE 100% TESTED FOR FLOW, LEAKS AND CONNECTOR ATTACHMENT. THE OUTLETS SHALL BE CLEANED FOR OXYGEN SERVICE PRIOR TO SHIPPING. THE OUTLETS SHALL BE MADE IN THE U.S.A. A DIE CAST, LIGHT GREY EPOXY POWDER COATED TRIM PLATE CAN BE PROVIDED TO TRIM EACH WALL OUTLET AND TO FILL THE SPACE BETWEEN ADJACENT OUTLETS. THE TRIM PLATE SHALL ALLOW LATCH VALUES TO BE INDIVIDULLY REMOVED FOR SERVICING.



WIRING NOTES:
1. USE STRANDED, 22 OR 24 GAUGE
2. REFERENCE INSTALLATION INSTRUCTIONS SUPPLIED WITH THE PANEL FOR WIRING INFORMATION
3. ALL SWITCHES GET WIRED DIRECTLY TO EACH OF THE (4) PANELS. THIS IS (4) SETS OF (33) CONDUCTORS

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

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229.01.00

DATE:
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DRAWING TITLE:
MEDICAL GAS NOTES, LEGEND, AND SCHEDULES

MG0.10

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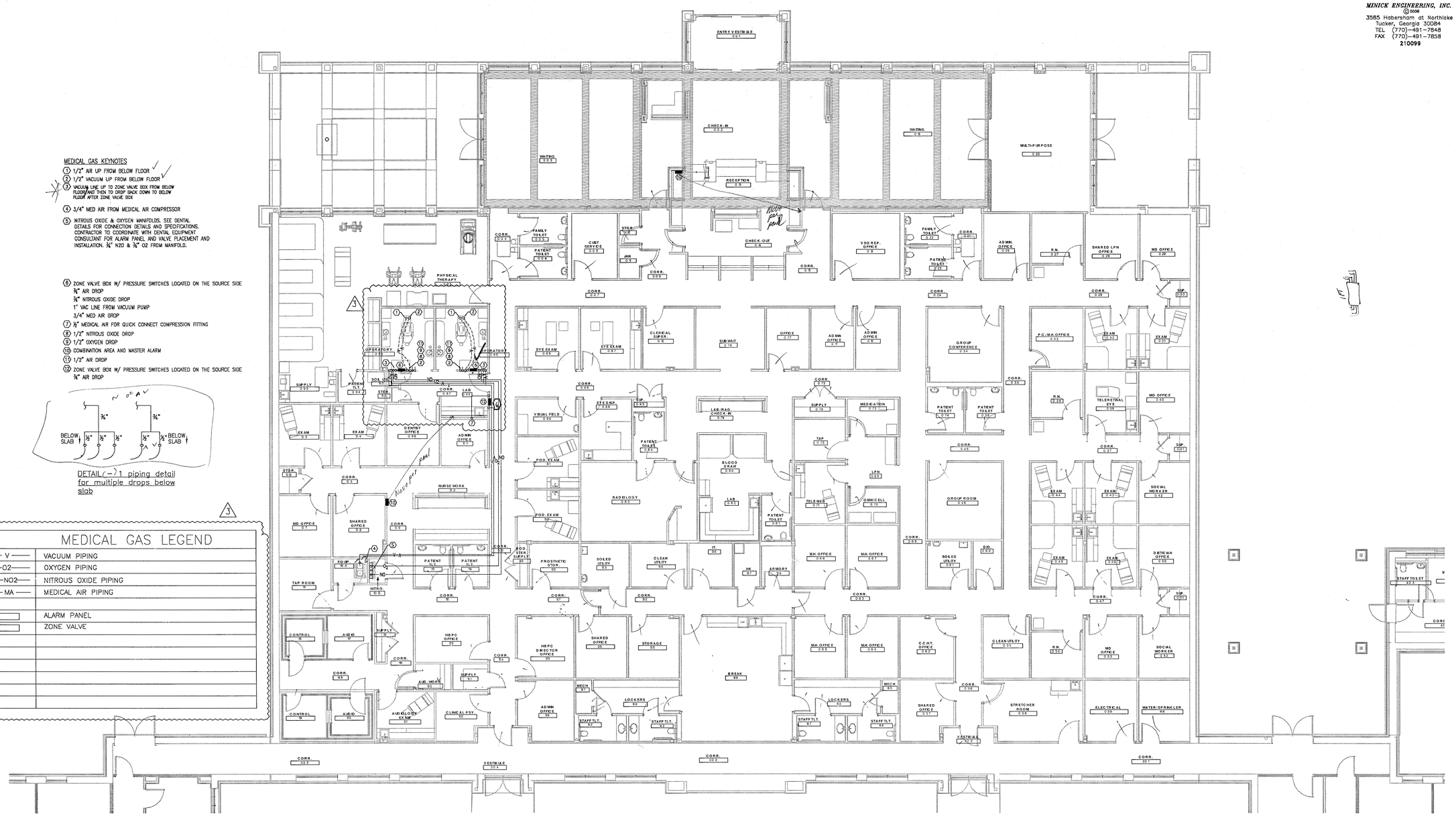
MEDICAL GAS KEYNOTES

1. 1/2" AIR UP FROM BELOW FLOOR
2. 1/2" VACUUM UP FROM BELOW FLOOR
3. VACUUM LINE UP TO ZONE VALVE BOX FROM BELOW FLOOR AND THEN TO DROP BACK DOWN TO BELOW FLOOR AFTER ZONE VALVE BOX
4. 3/4" MED AIR FROM MEDICAL AIR COMPRESSOR
5. NITROUS OXIDE & OXYGEN MANIFOLDS. SEE DENTAL DETAILS FOR CONNECTION DETAILS AND SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH DENTAL EQUIPMENT CONSULTANT FOR ALARM PANEL AND VALVE PLACEMENT AND INSTALLATION. 3/4" N20 & 3/4" O2 FROM MANIFOLD.
6. ZONE VALVE BOX W/ PRESSURE SWITCHES LOCATED ON THE SOURCE SIDE
   - 3/4" AIR DROP
   - 3/4" NITROUS OXIDE DROP
   - 1" VAC LINE FROM VACUUM PUMP
   - 3/4" MED AIR DROP
7. 3/4" MEDICAL AIR FOR QUICK CONNECT COMPRESSION FITTING
8. 1/2" NITROUS OXIDE DROP
9. 1/2" OXYGEN DROP
10. COMBINATION AREA AND MASTER ALARM
11. 1/2" AIR DROP
12. ZONE VALVE BOX W/ PRESSURE SWITCHES LOCATED ON THE SOURCE SIDE
    - 3/4" AIR DROP

DETAIL (-?1 piping detail for multiple drops below slab

MEDICAL GAS LEGEND

—— V ——	VACUUM PIPING
—— O2 ——	OXYGEN PIPING
—— NO2 ——	NITROUS OXIDE PIPING
—— MA ——	MEDICAL AIR PIPING
▭	ALARM PANEL
▭	ZONE VALVE



1 / MG 1.0 MEDICAL GAS PLAN - CBOC

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

Contractor to verify and install Note one outlet

7 — MED AIR LOCATION (Dimensions)
WAGD outlets
CHAIRS
12 o'clock Cabinets
Alarm Panel
9"
1'
24"

TRINK A DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

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3/8/11	ADDENDUM 3

PROJECT NO: 229.010.0
DATE: FEB 21TH, 2011
DRAWING TITLE: MEDICAL GAS FLOOR PLAN - CBOC

MG 1.0

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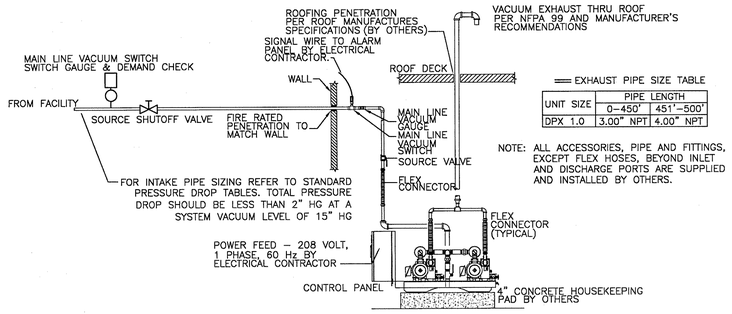
COMPLETE SYSTEM MODEL NO.	UNIT (Hp)	RECEIVER (GAL.)	CAPACITY @ 19" Hg SCFM		NOISE LEVEL dB(A)*	H	W	D	SYSTEM WEIGHT	SYSTEM FLA @ 60 HZ		
			PUMP	SYSTEM						208V	230V	460V
VACSTAR 50H	1	N/A	--	--	73	25"	28"	16"	170	28.6	--	--

NOTE
VACUUM PIPING SHALL ALSO CARRY THE WAGD WATSE ANESTHETIC GAS DISPOAL PRODUCT

GENERAL NOTES:

1. ALL INTERCONNECTING PIPE AND FITTINGS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
2. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99, 2005 EDITION. PIPING LAYOUT IS DIAGRAMMATIC ONLY. FINAL ARRANGEMENT WILL BE SITE SPECIFIC. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFICATION AND COORDINATING ACTUAL LOCATION WITH ALL OTHER TRADES.
3. CONTRACTOR SHALL VERIFY MOTOR VOLTAGE, PHASE AND AMP RATINGS BEFORE STARTING ELECTRICAL INSTALLATION AND MAKE CERTAIN THE VOLTAGE SUPPLIED BY THE HOSPITAL IS THE SAME.
4. THE ROOM REQUIRES DEDICATED MECHANICAL VENTILATION WITH AN ALLOWABLE TEMPERATURE VARIANCE OF 40° TO 105°. (FOR HIGHER AMBIENTS, CONSULT FACTORY).
5. ELECTRICAL POWER SHALL BE SUPPLIED FROM THE EQUIPMENT SYSTEM BRANCH OF THE ESSENTIAL ELECTRICAL DISTRIBUTION (EMERGENCY POWER).
6. EQUIPMENT, INSTALLATION, AND TESTING OF THE MEDICAL VACUUM SYSTEM SHALL COMPLY WITH NFPA 99, 2005 EDITION, AND ALL STATE AND LOCAL CODES OR ORDINANCES.



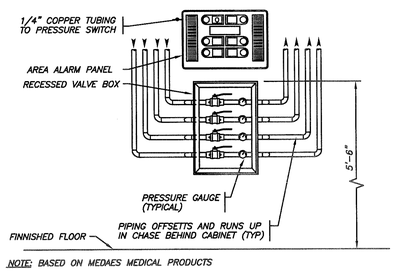
EXHAUST PIPE SIZE TABLE

UNIT SIZE	PIPE LENGTH	
	0–450'	451'–500'
DPX 1.0	3.00" NPT	4.00" NPT

NOTE: ALL ACCESSORIES, PIPE AND FITTINGS, EXCEPT FLEX HOSES, BEYOND INLET AND DISCHARGE PORTS ARE SUPPLIED AND INSTALLED BY OTHERS.

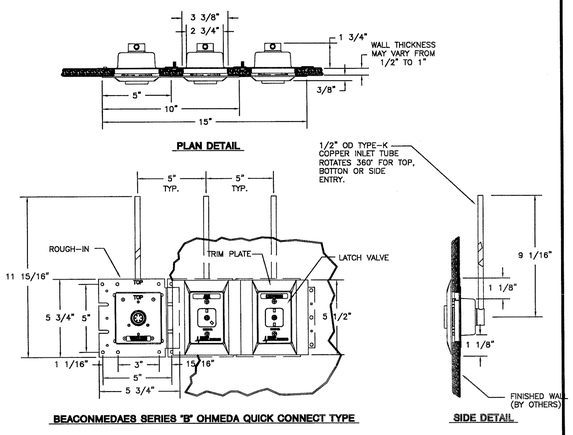
NOTE:
SEE MEDICAL GAS EQUIPMENT SPEC SHEETS FOR MANUFACTURER INSTALLATION REQMTS

1 VACUUM PUMP DETAIL



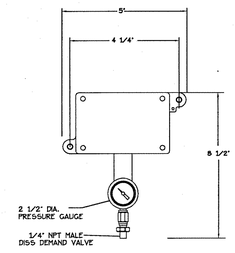
NOTE: BASED ON MEDAES MEDICAL PRODUCTS

2 ZONE VALVE BOX DETAIL



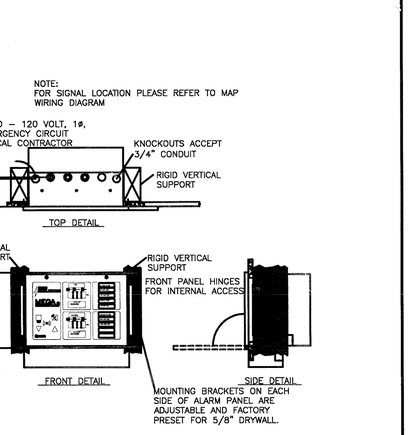
A MAXIMUM OF THREE OUTLETS MAY BE GANGED WITHOUT ADDITIONAL SUPPORT

3 MEDICAL GAS OUTLETS (RECESSED)

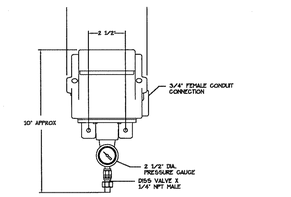


COVERALL DEPTH 3 1/2" NOT SHOWN

4 VACUUM SWITCH DETAIL

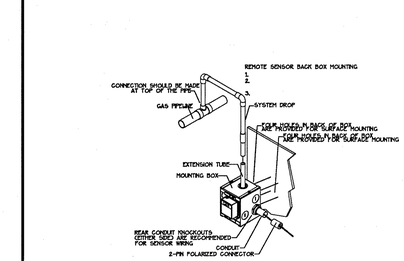


6 MEGA COMBO MASTER/ ALARM PANEL

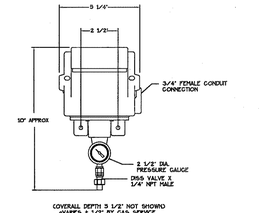


COVERALL DEPTH 3 1/2" NOT SHOWN
•VARIES ± 1/2" BY GAS SERVICE

5 GAS PRESSURE SWITCH FOR 180 PSIG

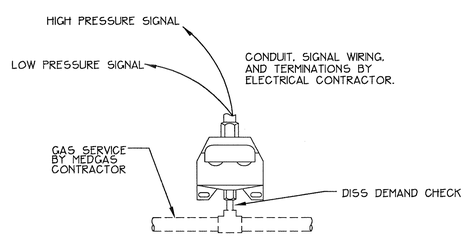


7 REMOTE SENSOR



COVERALL DEPTH 3 1/2" NOT SHOWN
•VARIES ± 1/2" BY GAS SERVICE

8 GAS PRESSURE SWITCH FOR 50-55PSIG



9 HI/LO PRESSURE SWITCH

TRINKA DAVIS VETERANS VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
2/14/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID

PROJECT NO:
229.01.00

DATE:
FEB 21TH 2011

DRAWING TITLE:
MEDICAL GAS DETAILS

MG2.10

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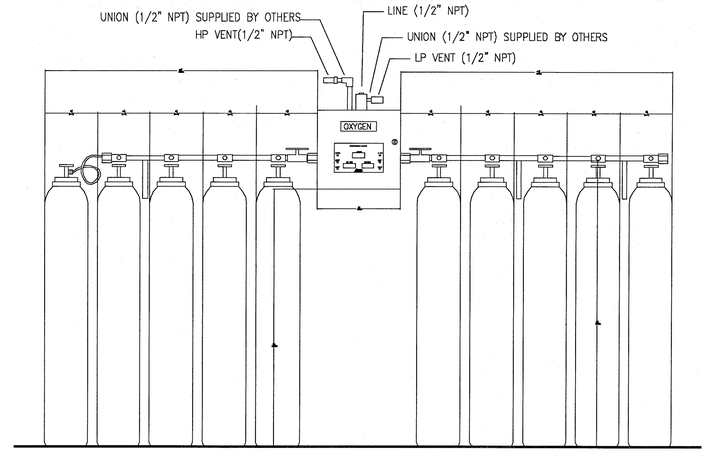
DIGITAL DUAL LINE REGULATOR - NFPA HEAVY DUTY VERSION



Units of measure
In.[mm]

FRONT VIEW

NFPA 99 CODES

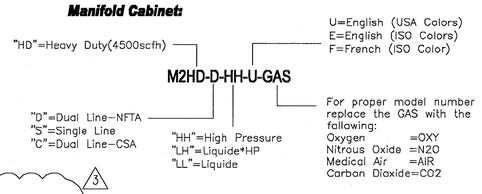
TO ASSURE SAFE OPERATION AND CONFORMATION TO LOCAL FIRE CODES, PORTER INSTRUMENT CO. NITROUS OXIDE SEDATION SYSTEMS MEET OR EXCEED THE GUIDELINES ESTABLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION FOR NONFLAMMABLE MEDICAL GAS SYSTEMS, NFPA 99. COPIES OF NFPA 99 OR PORTIONS THEREOF MAY BE OBTAINED BY WRITING TO NATIONAL FIRE PROTECTION ASSOCIATION, BATTERYMARCH PARK, QUINCY, MA 02269-9904 OR CALL: 1-800-344-3555

LEVEL 2 NONFLAMMABLE MEDICAL GAS SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING REQUIREMENTS

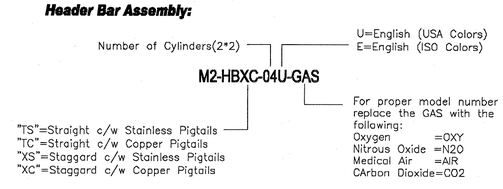
1. NO MORE THAN 3000 CU FT. TOTAL CAPACITY OF ALL GASES (EXCLUDING NITROGEN) CONNECTED AND IN STORAGE AT ONE TIME.
2. ENCLOSURE FOR SUPPLY SYSTEM STORAGE SHALL BE PROVIDED WITH DOORS OR GATES THAT MAY BE LOCKED. THE ENCLOSURE MUST BE CONSTRUCTED OF MATERIALS WITH A FIRE RESISTIVE RATING OF AT LEAST ONE HOUR.
3. DOORS TO SUPPLY SYSTEM STORAGE LOCATIONS SHALL BE PROVIDED WITH A LOUVERED OPENING HAVING A MINIMUM OF 72 SQ. IN. TOTAL FREE AREA BUT, LOUVER IS ONLY NEEDED WHEN NO OTHER VENTING IS POSSIBLE.
4. EACH CYLINDER OF GAS SHALL HAVE A LISTED PRESSURE REGULATOR DIRECTLY CONNECTED.
5. A PRESSURE RELIEF VALVE SET AT 50 PERCENT ABOVE (75 P.S.I.G.) NORMAL LINE PRESSURE (150 P.S.I.G.).
6. A SHUTOFF VALVE OR CHECK VALVE SHALL BE INSTALLED DOWNSTREAM OF EACH PRESSURE REGULATOR.
7. A PRESSURE GAUGE SHALL BE INSTALLED IN THE MAIN LINE ADJACENT TO THE ACTUATING SWITCH. IT SHALL BE APPROPRIATELY LABELED.
8. PIPING SHALL BE SEAMLESS TYPE K OR L (ASTM B88) COPPER TUBING. SHALL BE THOROUGHLY CLEANED OF OIL, GREASE, AND BE CAPPED OR PLUGGED TO PREVENT RECONTAMINATION.
9. FLEXIBLE CONNECTORS OF OTHER THAN ALL-METAL CONSTRUCTION USED TO CONNECT OUTLETS OF PRESSURE REGULATORS TO FIXED PIPING SHALL HAVE A MINIMUM BURST PRESSURE OF 1000 P.S.I.G. AND SHALL NOT PENETRATE WALLS, FLOORS, CEILINGS, OR PARTITIONS.
10. BEFORE CLOSING OF THE WALLS, EACH SECTION OF THE PIPING SYSTEM SHALL BE SUBJECTED TO A MINIMUM TEST PRESSURE OF 150 P.S.I.G. WITH OIL-FREE, DRY AIR OR NITROGEN. THIS TEST PRESSURE SHALL BE MAINTAINED UNTIL EACH JOINT HAS BEEN EXAMINED FOR LEAKAGE, AND ANY LEAKS LOCATED SHALL BE REPAIRED AND RETESTED AS ABOVE. AFTER TESTING AS ABOVE, THE SOURCE SHUTOFF VALVE SHALL THEN BE CLOSED. THE TEST SHALL REMAIN STATIC FOR A PERIOD OF 24 HOURS WITH A MAXIMUM ALLOWABLE PRESSURE LOSS OF 5 P.S.I.G.
11. PIPING SYSTEMS, WITH THE EXCEPTION OF NITROGEN SYSTEMS, SHALL BE CAPABLE OF DELIVERING 50 TO 55 P.S.I.G. TO ALL OUTLETS AT THE MAXIMUM FLOW RATE.
12. ALL BRAZED JOINTS IN THE PIPING SHALL BE MADE UP USING BRAZING FILLER ALLOYS THAT BOND WITH THE BASE METALS BEING BRAZED AND THAT COMPLY WITH "SPECIFICATIONS FOR BRAZING FILLER METAL," ANSI/AWS A5.8.
    (a) COPPER-TO-COPPER JOINTS SHALL BE MADE USING A COPPER-PHOSPHORUS BRAZING FILLER ALLOY (BCuP SERIES) WITHOUT FLUX.
    (b) DISSIMILAR METAL SUCH AS COPPER AND BRASS SHALL BE JOINED USING AN APPROPRIATE FLUX WITH EITHER A COPPER-PHOSPHORUS (BCuP SERIES) OR A SILVER (BAg SERIES) BRAZING FILLER ALLOY. APPLY FLUX SPARINGLY AND IN A MANNER TO AVOID LEAKING ANY EXCESS INTO OF COMPLETED JOINTS. USE OF PREFLUXED ROD IS ACCEPTABLE.
13. AUDIBLE AND NON-CANCELLABLE VISUAL SIGNALS SHALL INDICATE IF THE PRESSURE IN THE MAIN LINE INCREASED OR DECREASES 20 PERCENT FROM THE NORMAL OPERATING PRESSURE, AND SHALL BE INSTALLED IN THE OFFICE OR PRINCIPAL WORKING AREA OF THE INDIVIDUAL RESPONSIBLE FOR THE MAINTENANCE OF THE MEDICAL GAS SYSTEM AND, TO ASSURE CONTINUOUS SURVEILLANCE.
14. WHERE THE CENTRAL SUPPLY IS REMOTE FROM THE MEDICAL GAS SYSTEMS USE POINT, THE MAIN SUPPLY LINE SHALL BE PROVIDED WITH A STATION VALVE SO LOCATED IN THE TREATMENT FACILITY AS TO BE ACCESSIBLE FROM THE USE-POINT LOCATIONS IN AN EMERGENCY.
15. OUTLET STATIONS SHALL BE DESIGNED SO THAT PARTS OR COMPONENTS THAT ARE REQUIRED TO BE GAS SPECIFIC CANNOT BE INTERCHANGED BETWEEN STATION OUTLETS FOR DIFFERENT GASES.
16. LABELING SHALL APPEAR ON THE PIPING AT INTERVALS OF NOT MORE THAN 20 FT. AND AT LEAST ONCE IN EACH ROOM AND EACH STORY TRAVERSED BY THE PIPING SYSTEMS.
17. ELECTRICAL WALL FIXTURES, SWITCHES, AND RECEPTACLES SHALL BE INSTALLED IN FIXED LOCATIONS NOT LESS THAN 5 FT (152 CM) ABOVE THE FLOOR AS A PRECAUTION AGAINST THEIR PHYSICAL DAMAGE.

MODEL NUMBERS

Manifold Cabinet:

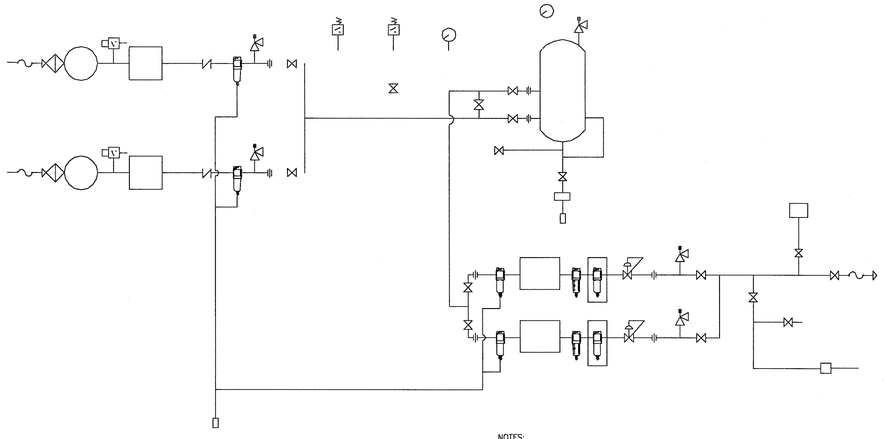


Header Bar Assembly:

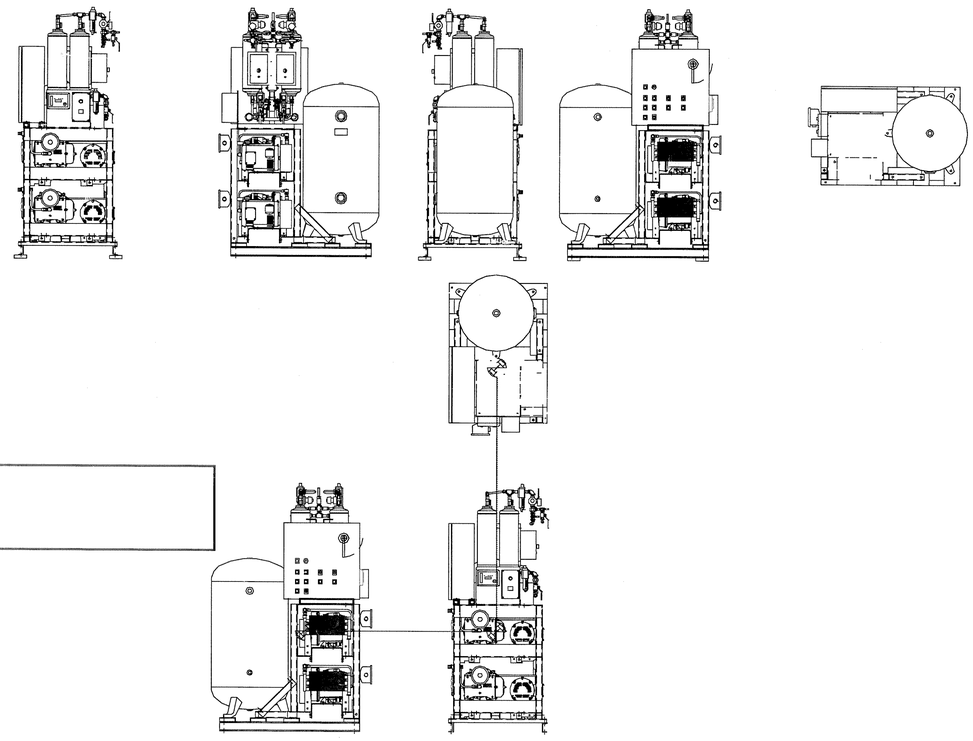


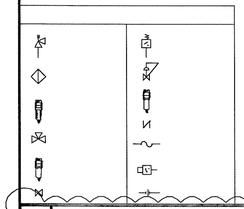
3

1 GAS MANIFOLD DETAILS



NOTES:
1) IF LAG 1 COMPRESSOR IS ENERGIZED ALARM WILL OCCUR.
2) PIPING TO THE INLET BY OTHERS AND TO BE PER NFPA99 4-3.1.1.9(b)
3) INSTRUMENTS DOWN STREAM OF SOURCE VALVE TO BE SUPPLIED BY OTHERS.
4) THIS DRAWING COVERS PART#'S -25, -35, AND -45.





3

2 MEDICAL AIR COMPRESSOR

MINICK ENGINEERING, INC.
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Tucker, Georgia 30084
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ATLANTA GEORGIA 30328
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TR INK A DAVIS V ETERANS V ILLAGE
CARROLLTON,GA 30 117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

DATE	REVISION
9/15/10	SCHEMATIC DESIGN
11/3/10	PROGRESS PRINT
12/16/10	DD REVIEW MEETING
2/16/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/15/11	ADDENDUM 3

PROJECT NO:
229.0 10 0

DATE:
FEB 21TH, 20 11

DRAWING TITLE:
MEDICAL GAS DETAILS - CBOC

MG 2.11

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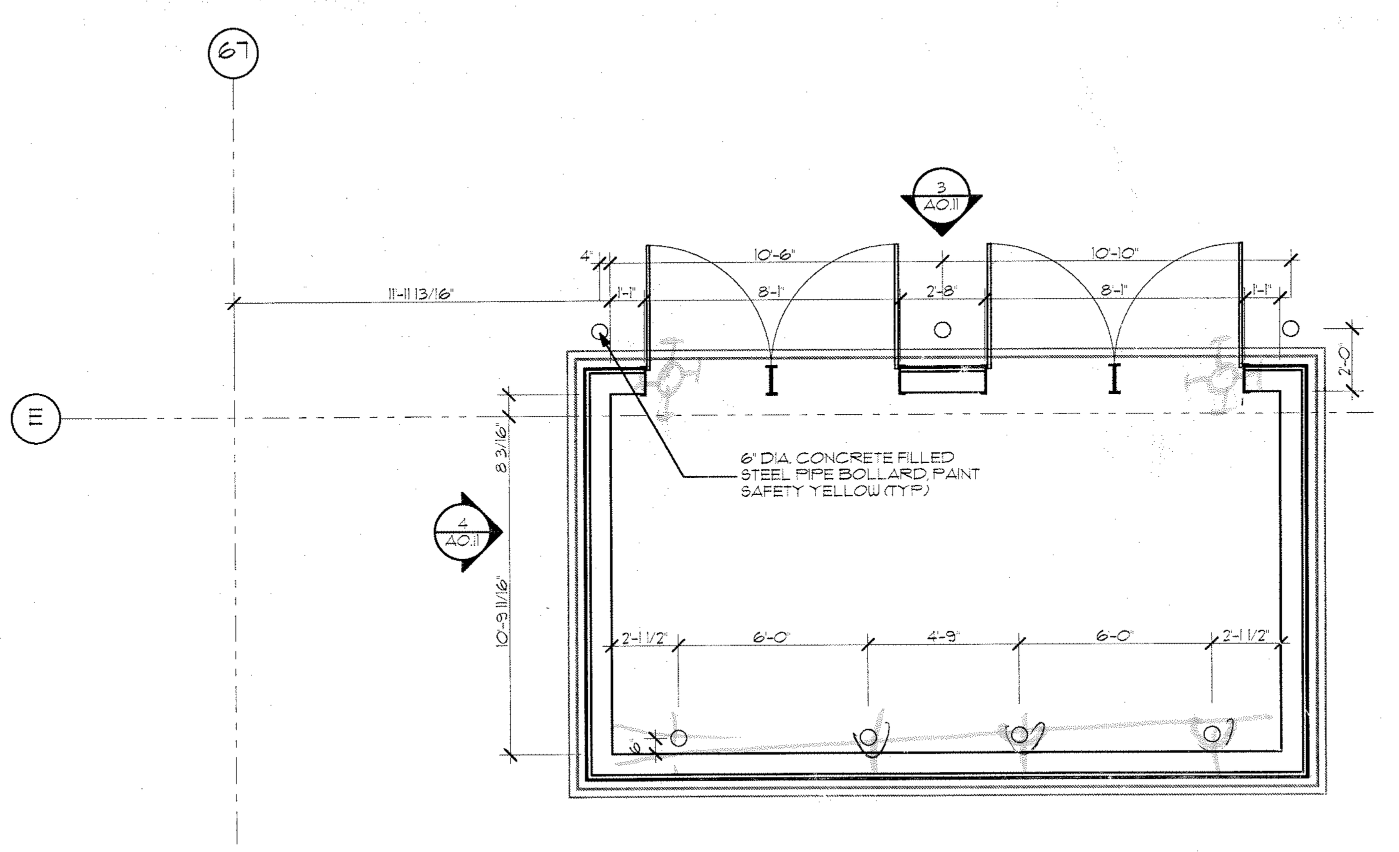
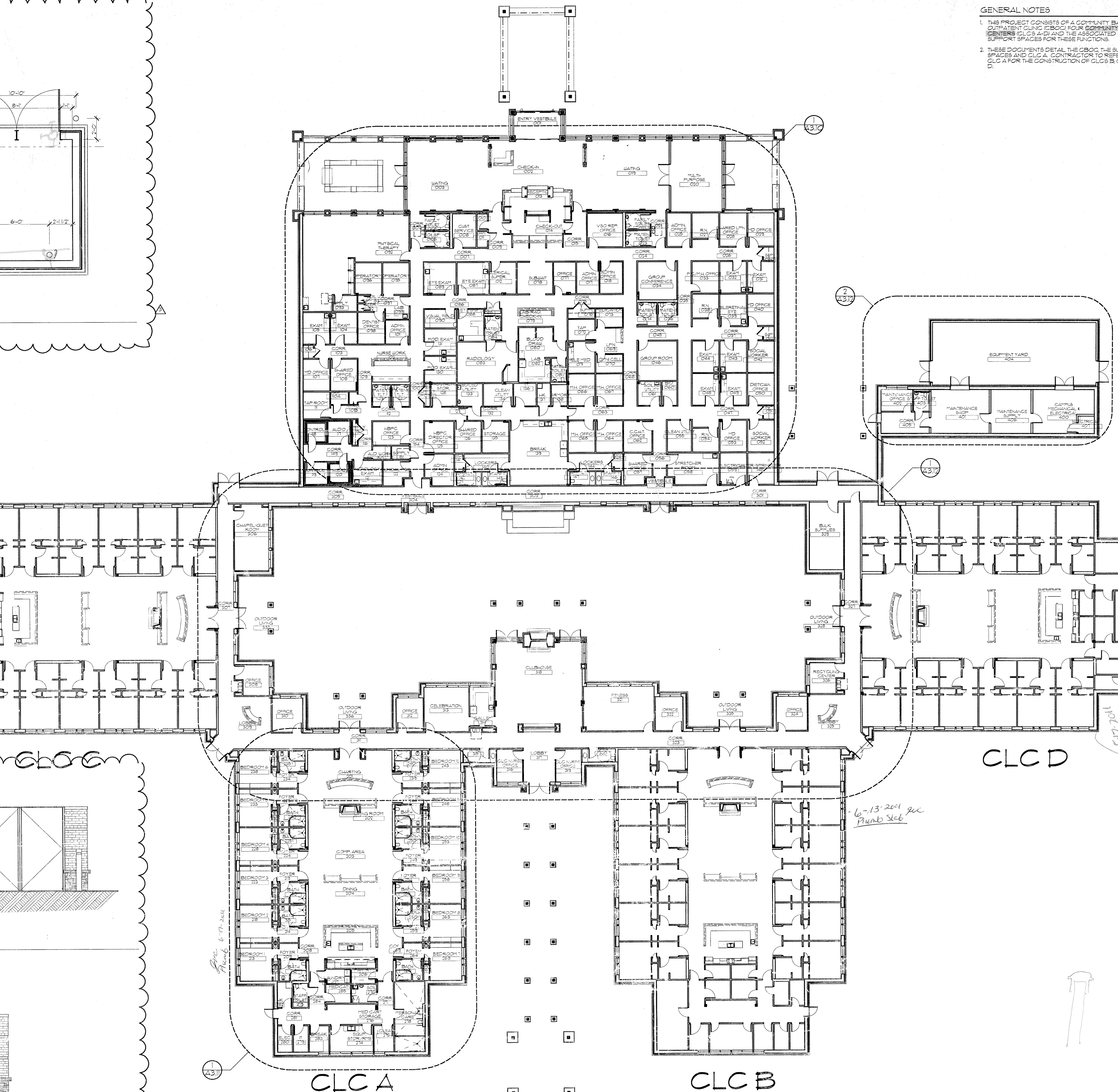
GENERAL NOTES

1. THIS PROJECT CONSISTS OF A COMMUNITY BASED OUTPATIENT CLINIC (CBOC), FOUR COMMUNITY LIVING CENTERS (CLCS A-D) AND THE ASSOCIATED SUPPORT SPACES FOR THESE FUNCTIONS.
2. THESE DOCUMENTS DETAIL THE CBOC, THE SUPPORT SPACES AND CLC A. CONTRACTOR TO REFER TO CLC A FOR THE CONSTRUCTION OF CLCS B, C AND D.



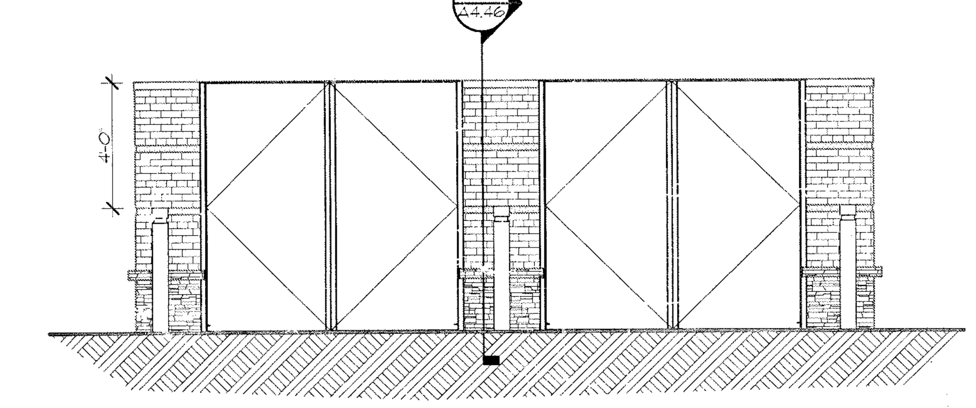
2 / A0.11 ENLARGED DIMENSION PLAN

SCALE: 1/4" = 1'-0"



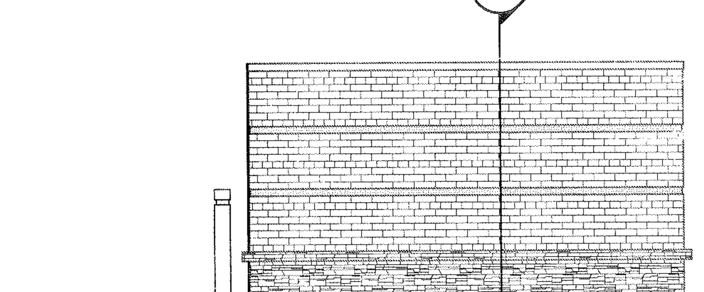
1 / A0.11 CAMPUS KEY PLAN

SCALE: 1/16" = 1'-0"



3 / A0.11 DUMPSTER ENCLOSURE

SCALE: 1/4" = 1'-0"



4 / A0.11 DUMPSTER ENCLOSURE

SCALE: 1/4" = 1'-0"

teamwork://designserver/TDVV DD SET

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STATE OF GEORGIA — H. DEAN PEACOCK — CERTIFICATE No. 6606 — REGISTERED ARCHITECT

DATE	REVISION
02/21/11	ISSUE FOR BID
03/18/11	ADDENDUM 3

PROJECT NO: 228.01.00

DATE: 02/21/11

DRAWING TITLE: CAMPUS KEY PLAN

A0.11

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PLUMBING GENERAL NOTES

1. ALL PIPING SHALL BE ROUTED ABOVE CEILING UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF STRUCTURE.
2. ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.
3. EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
4. SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE-STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.
5. ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
6. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
7. PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE.
8. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
9. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION.
10. INSTALL ALL PIPING AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT.
11. PROVIDE AN ISOLATING, DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN FERROUS AND NONFERROUS PIPING.
12. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
13. FIELD VERIFY LOCATION OF EXISTING SERVICES TO BE REUSED OR CONNECTED TO AND REPORT TO ARCHITECT/ENGINEER IF OTHER THAN THAT WHICH IS INDICATED ON DRAWINGS.
14. COORDINATE LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS WITH ARCHITECTURAL DRAWINGS.
15. COORDINATE ELECTRICAL VOLTAGES WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT.
16. COORDINATE FIXTURE TYPES WITH THE ARCHITECTURAL DRAWINGS. AREAS DESIGNATED FOR USE BY THE HANDICAPPED SHALL BE SUPPLIED WITH FIXTURES AND TRIM AS SET FORTH IN THE "AMERICANS WITH DISABILITIES ACT"(ADA).

FIRE PROTECTION GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, LATEST APPROVED EDITION N.F.P.A. FIRE CODES, LOCAL PLUMBING CODES, AND APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES. WHERE CONFLICTS BETWEEN CODE AND CONSTRUCTION DOCUMENTS OCCUR, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. PROVIDE FIRE SPRINKLER SHOP DRAWINGS AND CALCULATIONS. SIZE PIPING TO PROVIDE AN EXCESS RESIDUAL PRESSURE OF 10 PSI AT DESIGN FLOW. DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED THROUGH THE ARCHITECT.
3. COORDINATE EXACT LOCATION OF ALL SPRINKLERS WITH THE CEILING AND LIGHTING LAYOUT.
4. LIGHT FIXTURES AND HVAC DIFFUSERS TAKE PRECEDENCE. ADD ADDITIONAL SPRINKLERS AS REQUIRED TO MEET "COVERAGE REQUIREMENTS".
5. PLACE SPRINKLERS IN CENTER OF CEILING TILES. PROVIDE RETURN BENDS AT ALL SPRINKLER LOCATIONS TO ALLOW FIELD ADJUSTMENT. PREFABRICATION OF PIPING TO LOCATE SPRINKLER IN CENTER OR TILE IS PROHIBITED.
6. ALL BRANCH LINES SERVING ONE SPRINKLER SHALL BE 1" UNLESS NOTED OTHERWISE.
7. IN MECHANICAL ROOMS FINAL LOCATION OF SPRINKLERS SHALL BE DETERMINED AFTER EQUIPMENT AND DUCTWORK ARE IN PLACE. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLERS, IF NECESSARY, TO PROVIDE ADEQUATE COVERAGE IN ACCORDANCE WITH NFPA 13.
8. ALARM, SUPERVISORY AND TROUBLE SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION, REMOTE SUPERVISING STATION OR PROPRIETARY SUPERVISING STATION AS DEFINED IN NFPA 72 OR, WHEN APPROVED BY THE BUILDING OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION. COORDINATE WITH DIVISION 16 CONTRACTOR AS REQUIRED.
9. PROVIDE A LISTED GUARD FOR SPRINKLERS IN LOCATIONS SUBJECT TO MECHANICAL INJURY. THESE AREAS SHALL INCLUDE MECHANICAL ROOMS, AND ELETRICAL ROOMS.
10. FIRE DEPARTMENT CONNECTIONS SHALL BE ON THE STREET SIDE OF BUILDINGS, FULLY VISIBLE AND RECOGNIZABLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT APPARATUS ACCESSIBILITY, AND SHALL BE LOCATED AND ARRANGED SO THAT HOSE LINES CAN BE ATTACHED TO THE INLETS WITHOUT INTERFERENCE FROM NEARBY OBJECTS, INCLUDING BUILDINGS, FENCES, POSTS, OR OTHER FIRE DEPARTMENT CONNECTIONS.
11. THE DOUBLE-DETECTOR CHECK VALVE ASSEMBLY AND/OR POST INDICATOR VALVE DEDICATED TO THE FIRE SPRINKLER SYSTEM SHALL BE PROTECTED WITH TAMPER SWITCHES, TIED INTO THE FIRE ALARM SYSTEM AND CHAIN-LOCKED IN THE OPEN POSITION.
12. EACH FIRE DEPARTMENT CONNECTION SHALL BE IDENTIFIED WITH A SIGN INDICATING THE BUILDING OR BUILDINGS SERVED.
13. AN EXTERNAL AUDIBLE ALARM SHALL BE PROVIDED WHEN THE WATER FLOW SWITCH IS ACTIVATED. THE EXTERNAL ALARM SHALL BE PROVIDED WITH APPROPRIATE SIGNAGE. THE SIGN SHOULD BE LOCATED NEAR THE DEVICE IN A CONSPICUOUS POSITION AND SHOULD BE WORDED AS FOLLOWS: SPRINKLER FIRE ALARM WHEN BELL RINGS CALL FIRE DEPT"
14. THE CONTRACTOR SHALL SUBMIT A SEPARATE PERMIT APPLICATION AND PLANS FOR REVIEW PER NFPA.

ADA COMPLIANCE

1. VERIFY FIXTURES THAT ARE INTENDED FOR HANDICAP USE WITH CURRENT ARCHITECTURAL DRAWINGS.
2. PLUMBING FIXTURES DESIGNATED FOR HANDICAP USE SHALL COMPLY WITH ADA AND ALL STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO HANDICAP ACCESSIBILITY.
3. FIXTURE INSTALLATION SHALL COMPLY WITH ADA AND ANY STATE, CITY, AND LOCAL REQUIRMENTS PERTAINING TO HANDICAP ACCESSIBILITY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ADA AND ALL STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO PLUMBING FIXTURES AND PLUMBING FIXTURE INSTALLATION FOR USE BY THE HANDICAPPED.

PLUMBING FIXTURE SCHEDULE (BASIS OF DESIGN)

MARK	DESCRIPTION	MANUFACTURER, MODEL NUMBER	FITTINGS/ACCESSORIES	REMARKS	FIXTURE CONNECTIONS CW	HW	WASTE	VENT
WC-1	WATER CLOSET FV WALL HUNG ADA	SLOAN WETS-2050.1402-1.28 SMO SLOAN ST-2000-1.28	SEAT: CHURCH 295CT ELONGATED OPEN FRONT SEAT LESS COVER. CARRIER: J R SMITH 0210Y-M54 SLOAN ROYAL OPTIMA SERIES HET SMO BATTERY POWERED ELECTRONIC TOP MOUNT FLUSH VALVE	1.28 GPF, ELONGATED, GRAVITY FLUSH, VITREOUS CHINA. WALL MOUNTED PER REQUIREMENTS FOR ADA ADULT	1 1/4"	---	4"	2"
WC-2	WATER CLOSET FV WALL HUNG ADA	SLOAN WETS-2050.1402-1.28 SMO SLOAN ST-2000-1.28	SEAT: CHURCH 295CT ELONGATED OPEN FRONT SEAT WITH COVER. CARRIER: J R SMITH 0210Y-M54 SLOAN ROYAL OPTIMA SERIES HET SMO BATTERY POWERED ELECTRONIC TOP MOUNT FLUSH VALVE	1.28 GPF, ELONGATED, GRAVITY FLUSH, VITREOUS CHINA. WALL MOUNTED PER REQUIREMENTS FOR ADA ADULT	1 1/4"	---	4"	2"
LAV-1	LAVATORY COUNTER MOUNTED ADA	CORIAN INTEGRAL ALL IN ONE	FAUCET: SYMMONS (SYMMETRIX) S-20-2-C-.5 POP-UP DRAIN WITH OFFSET TAILPIECE	4 COUNTER MOUNTED, 4" CENTERS, SINGLE LEVER FAUCET. SINGLE LEVER 0.5 GPM FLOW REGULATOR. CONTRACTOR TO ENSURE FAUCET WILL NOT DELIVER MORE THAT MAX 110°F HW	1/2"	1/2"	2"	1-1/2"
LAV-2	LAVATORY COUNTER MOUNTED ADA	CORIAN INTEGRAL ALL IN ONE	SLOAN OPTIMA PLUS SERIES EBF-650 BATTERY POWERED FAUCET, 4" ON CENTER	CONTRACTOR TO ENSURE FAUCET WILL NOT DELIVER MORE THAT MAX 110°F HW	1/2"	1/2"	2"	1-1/2"
LAV-3	LAVATORY WALL MOUNTED ADA	SLOAN SS-3000 WALL MOUNTED 19"x17"	SLOAN OPTIMA PLUS SERIES EBF-650 BATTERY POWERED FAUCET, 4" ON CENTER	CONCEALED ARM SUPPORT. COMPLETE W/ SLOAN BDT MIXING VALVE SET TO DELIVER MAX 110° F HW & EL-154 120V CONTROL BOX	1/2"	1/2"	2"	1-1/2"
HS-1	HAND SINK WALL MOUNTED ADA	SLOAN SS-3000 WALL MOUNTED 19"x17"	FAUCET: CHICAGO FAUCET 201-AGN4AES-317CP, 4" CENTER AND GRID DRAIN SINK STRAINER & TAILPIECE: GRID DRAIN AERATOR: GNNI-FLOW 0.5 GPM, LAMINAR FLOW	CONCEALED ARM SUPPORT. CONTRACTOR TO ENSURE FAUCET WILL NOT DELIVER MORE THAT MAX 110°F HW	1/2"	1/2"	2"	1-1/2"
HS-2	HAND SINK WALL MOUNTED ADA	SLOAN SS-3804 WALL MOUNTED 20"x27"	FAUCET: CHICAGO FAUCET 201-AGN8AES-317CP, 8" CENTER AND GRID DRAIN SINK STRAINER & TAILPIECE: GRID DRAIN AERATOR: GNNI-FLOW 0.5 GPM, LAMINAR FLOW	CONCEALED ARM SUPPORT. CONTRACTOR TO ENSURE FAUCET WILL NOT DELIVER MORE THAT MAX 110°F HW	1/2"	1/2"	2"	1-1/2"
SK-1	EXAM SINK SINGLE COMPARTMENT ADA	JUST SL-1515-A-GR	FAUCET: CHICAGO FAUCET 201-AGN4AES-317CP, 4" CENTER AND GRID DRAIN SINK STRAINER & TAILPIECE: BASKET DRAIN AERATOR: GNNI-FLOW 1.5 GPM, LAMINAR FLOW	16"x17"x5½"D, GOOSENECK & WRISTBLADES. PROVIDE POWERS HYDROGUARD SERIES 480 TEMP. VALVE SET FOR 110 DEGREES.	1/2"	1/2"	2"	1-1/2"
SK-2	SINK DOUBLE COMPARTMENT ADA	ELKAY LRAD3322	FAUCET: CHICAGO FAUCET 1100-GN2AE3-317CP 8" CENTER	33"x22"x6½"D, GOOSENECK & WRISTBLADES. CONTRACTOR SHALL ADJUST FAUCET NOT TO EXCEED 110°F	1/2"	1/2"	2"	1-1/2"
SK-3	SINK SINGLE COMPARTMENT ADA	JUST SL-1921-A-GR	FAUCET: CHICAGO FAUCET 1100-GN2AE3-317CP 8" CENTER	19"x21"x7½"D, GOOSENECK & WRISTBLADES. CONTRACTOR SHALL ADJUST FAUCET NOT TO EXCEED 110°F	1/2"	1/2"	2"	1-1/2"
SK-4	SINK TOP MOUNT ADA	JUST RLLVR12	FAUCET: CHICAGO FAUCET 201-AGN4AES-317CP, 4" CENTER SINK STRAINER & TAILPIECE: BASKET DRAIN AERATOR: GNNI-FLOW 1.5 GPM, LAMINAR FLOW	14⅜"X14⅜", TOP MOUNT STAINLESS STEEL.	1/2"	1/2"	2"	1-1/2"
SK-5	SINK TOP MOUNT ADA	JUST RLLVR12	5 FAUCET: CHICAGO FAUCET 349-L9CP W/ 4" 4" WRISTBLADE HANDLE SINGLE HOLE SINK STRAINER & TAILPIECE: BASKET DRAIN AERATOR: GNNI-FLOW 1.5 GPM, LAMINAR FLOW	14⅜"X14⅜", TOP MOUNT STAINLESS STEEL.	1/2"	1/2"	2"	1-1/2"
SH-1 SD-1	SHOWER ADA	SYMMONS TEMPTROL II BP SERIES BP-56-1-231	PRESSURE BALANCING W/ TEMP LIMIT STOPS SHOWER VALVE ASSEMBLY COMPLETE WITH TRIM, SPEAKMAN S-2251 CLASSIC 84 SELF-DRAINING SHOWER HEAD AND HANDHELD W/ DIVERTOR FOR ADA. OATLEY 130 SERIES SHOWER DRAIN FOR TILE READY #3760R/L PREFAB 37"x60" BASE AND LINER. CONTRACTOR TO VERIFY EXACT SIZE OF BASE PRIOR TO ORDERING.	SURROUND SHALL BE TILED BY GENERAL CONTRACTOR.	1/2"	1/2"	3"	2"
US-1	UTILITY SINK SINGLE COMPARTMENT ADA	KOHLER K-6650	FAUCET: CHICAGO 897-CP TRAP: KOHLER K-8673	WALL HUNG SINK, 22"x24"x14", WALL SUPPORT. VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT. ACID RESISTANT CAST IRON TRAP STANDARD WITH STAINLESS STEEL GRID STRAINER AND FLOOR SUPPORT.	1/2"	1/2"	3"	2"
MS-1	MOP SINK	FIAT MSB-2424	830AA FAUCET W/ VACUUM BREAKER 889DC MOP BRACKET 1453BB STRAINER & E77AA BUMPER GUARD	16 GAUGE STAINLESS STEEL CONSTRUCTION	1/2"	1/2"	3"	2"
FD-1	FLOOR DRAIN	J.R. SMITH 2005	FINISHED AREAS W/ TRAP PRIMER & SQ. GRATE		1/2"**	---	3"	2"
FD-2	FLOOR DRAIN	J.R. SMITH 2240	NON-FINISHED AREAS, MECHANICAL ROOMS, WITH SEDIMENT BUCKET, SQ GRATE AND TRAP PRIMER CONNECTION		1/2"**	---	3"	2"
RD-1	ROOF DRAIN	J.R. SMITH 1010	NON-FINISHED AREAS, MECHANICAL ROOMS, WITH SEDIMENT BUCKET, SQ GRATE AND TRAP PRIMER CONNECTION			---SEE PLANS---		
3 EWC-1	ELECTRIC WATER COOLER	ELKAY EDFPB117C	ELKAY REMOTE CHILLER MODEL # ECHBCRN	TWO STATION, WALL HUNG W/ REMOTE ELECTRIC CHILLER. 8.8 GPH OF 50°F AT AN AMBIENT TEMPERATURE OF 90°F.	1/2"	---	2"	1-1/2"
IMB-1	REFRIGERATOR/ ICE MAKER BOX	GUY GRAY BIM875			1/2"	---	---	---

1/2"** INDICATES TRAP PRIMER WATER LINE

GAS WATER HEATER SCHEDULE (BASIS OF DESIGN)

MARK	MANUFACTURER/MODEL	STORAGE	RECOVERY @ 100°F RISE	INPUT, BTUH	FLUE	COMBUSTION AIR	INLET/OUTLET	GAS CONN.	ELECTRICAL	EFFICIENCY	REMARKS
GWH-1	A.O. SMITH BTH-120	50 GAL.	138 GPH	120,000	3"	DIRECT VENT	1¼"	½"	120V/1 PHASE	96%	140° STORAGE/DELIVERY TEMP.
GWH-2	RHEEM RTGH-95DVN	N/A	3.8 GPM (228 GPH)	199,900	3"	DIRECT VENT	1¼"	3x5 CONCENTRIC	120V/1 PHASE		140° DELIVERY TEMP.
GWH-3	RHEEM RTGH-95DVN	N/A	3.8 GPM (228 GPH)	199,900	3"	DIRECT VENT	1¼"	3x5 CONCENTRIC	120V/1 PHASE		140° DELIVERY TEMP.

SET T'STAT FOR 140° F WORKING TEMP. PROVIDE EZ-LINK CABLE RTC20040

TANKLESS ELECTRIC WATER HEATER SCHEDULE (BASIS OF DESIGN)

MARK	MANUFACTURER/MODEL	FLOW (GPM)	INLET/OUTLET	TEMP. RISE	HEATING KW	ELECTRICAL	ELECTRICAL	REMARKS
EWH-1	CHRONOMITE LABORATORIES SR-20L	0.5	1/2"	57° F	4.16	208V - 1 PHASE	BREAKER SIZE - 20 AMPS	140° DELIVERY TEMP.
EWH-2	CHRONOMITE LABORATORIES SR-20L	0.5	1/2"	57° F	4.16	208V - 1 PHASE	BREAKER SIZE - 20 AMPS	140° DELIVERY TEMP.
EWH-3	CHRONOMITE LABORATORIES SR-20L	0.5	1/2"	57° F	4.16	208V - 1 PHASE	BREAKER SIZE - 20 AMPS	140° DELIVERY TEMP.
EWH-3	CHRONOMITE LABORATORIES SR-20L	0.5	1/2"	57° F	4.16	208V - 1 PHASE	BREAKER SIZE - 20 AMPS	140° DELIVERY TEMP.

SET T'STAT FOR 140° F WORKING TEMP. PROVIDE EZ-LINK CABLE RTC20040

PUMP SCHEDULE (BASIS OF DESIGN)

MARK	SERVICE	BASIS OF DESIGN	CAPACITY, GPM	DISCHARGE HD, FT	ELECTRICAL DATA	RPM	VOLTS	REMARKS
CP-1	HOT WATER RECIRC.	TACO 1400-50 SERIES	10	50	1/2 HP	1750	115V/1 PH	CBOC
CP-2	HOT WATER RECIRC.	TACO 110 SERIES	5	15	1/12 HP	1750	115V/1 PH	CLC
CP-3	HOT WATER RECIRC.	TACO 110 SERIES	1	10	1/16 HP	1750	115V/1 PH	CBOC

EXPANSION TANK SCHEDULE (BASIS OF DESIGN)

MARK	MANUFACTURER/MODEL	TANK VOLUME	ACCEPTANCE VOLUME	ORIENTATION	SERVICE
XT-1	TACO/PAX 30	8 GAL.	5 GAL.	VERTICAL	GWH-1

THERMOSTATIC MIXING VALVE SCHEDULE

MARK	MANUFACTURER/MODEL	SETPOINT	MINIMUM FLOW	MAXIMUM FLOW	PRESSURE DROP AT MAX. FLOW	SERVICE
TMV-1	LAWLER/805	120°	5 GPM	150 GPM	10 PSI	GWH-1
TMV-2	LAWLER/805	120°	5 GPM	150 GPM	10 PSI	GWH-2 & 3

PLUMBING LEGEND

	STRAINER
	UNION
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	SANITARY, SOIL OR WASTE PIPING
	VENT PIPING
	COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	WATER HAMMER ARRESTER
CO WCO	WALL CLEANOUT
	CLEAN OUT
FD	FLOOR DRAIN
HD	HUB DRAIN (TOP 1" A.F.F., U.N.O.)
N.O. N.C.	BALL VALVE
N.O. N.C.	GATE VALVE
	SWING CHECK VALVE
	RELIEF VALVE
	CALIBRATED BALANCING VALVE
	MANUAL GAS SHUTOFF VALVE, PRESSURE REGULATOR AND MASTER SOLENOID
FM	FIRE MAIN
SPR	SPRINKLER MAIN
	TAMPER SWITCH ON INDICATING TYPE VALVE
	FLOW SWITCH

ABBREVIATIONS

AC	ABOVE CEILING	INV EL	INVERT ELEVATION
AF	ABOVE FLOOR	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	N/A	NOT APPLICABLE
(BF)	BARRIER FREE	PDI	PLUMBING DRAINAGE INSTITUTE
BFF	BELOW FINISHED FLOOR	PH	PHASE
BFP	BACKFLOW PREVENTER	REF	REFRIGERATOR
BG	BELOW GRADE	RPZ	REDUCED PRESSURE ZONE
CO	CLEANOUT	S	SOIL
CW	COLD WATER	SAN	SANITARY
CWS	COLD WATER SUPPLY	SK	SINK
DN	DOWN	TYP	TYPICAL
ECO	EXTERIOR CLEANOUT	V	VENT
EXIST	EXISTING	VOLT	VOLTAGE
EWC	ELECTRIC WATER COOLER	VTR	VENT THROUGH ROOF
FCO	FLOOR CLEANOUT	W	WASTE
FD	FLOOR DRAIN	WC	WATER CLOSET
G	GAS	WCO	WALL CLEANOUT
HP	HORSEPOWER	WHA	WATER HAMMER ARRESTER
HW	HOT WATER		
HWR	HOT WATER RETURN		

WATER HAMMER ARRESTER SCHEDULE

CHART A - FOR GROUPED FIXTURES		CHART B - FOR LONG PIPE RUNS						
		P.D.I. WATER HAMMER ARRESTERS						
P.D.I. SIZE	FIXTURE UNITS	LENGTH OF PIPE	NOMINAL PIPE DIAMETER 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	1-11	25'	A	A	B	C	D	E
B	12-32	50'	A	B	C	D	E	F
C	33-60	75'	B	C	D	AE	F	EF
D	61-113	100'	C	D	E	F	CF	FF
E	114-154	125'	C	D	F	AF	EF	EFF
F	155-330	150'	D	E	F	DF	FF	FFF

NOTES:

1. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PDI-WH201.

DOMESTIC WATER AND SANITARY PIPING MATERIALS

1. NO CPVC PIPING WILL BE ALLOWED AS A VE ITEM FOR ALL DOMESTIC HOT AND COLD WATER PIPING. ONLY COPPER PIPE, ASTM B88, TYPE K OR L.
2. NO PVC PIPING FOR SANITARY AND VENT WILL BE ALLOWED FOR BOTH ABOVE AND BELOW SLAB SANITARY AND VENT PIPING. ONLY CAST IRON PIPE ALLOWED.
3. NO CPVC PIPING WILL BE ALLOWED AS A VE ITEM FOR ALL FIRE SPRINKLER PIPING. ONLY BLACK STEEL.

DESIGN APPROACH DATA WET PIPE LIGHT HAZARD (TYPICAL FOR ALL AREAS UNLESS OTHERWISE NOTED)

SYSTEM TYPE: WET PIPE

REMOTE AREA: 1500 SQ. FT.

DESIGN DENSITY: 0.10 G.P.M./ SQ. FT.

SPRINKLER TEMPERATURE RATING: 155 DEGREE

SPRINKLER PROTECTION AREA: 225 MAX. SQ. FT.

DESIGN APPROACH DATA WET PIPE ORDINARY HAZARD (GROUP I)

SYSTEM TYPE: WET PIPE MARK: A

REMOTE AREA: 1500 SQ. FT.

DESIGN DENSITY: 0.15 G.P.M./ SQ. FT.

SPRINKLER TEMPERATURE RATING: 155 DEGREE

SPRINKLER PROTECTION AREA: 130 MAX. SQ. FT.

Sprkr Heads
@ ea. 540,000
Logs 90,000 (4) 360,000
110,00 (2) 220,000
W Heater 120,000 (1) 120,000
200,000 (8) 1,600,000
2.30
1,720,000

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TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED NO. 10986 PROFESSIONAL MARK MINICK ENGINEER

DATE	REVISION
9/5/18	SCHEMATIC DESIGN
11/3/18	PROGRESS PRINT
12/18/18	DD REVIEW MEETING
2/18/19	PROGRESS PRINT
2/27/19	ISSUED FOR BID
3/8/19	ADDENDUM 3

PROJECT NO: 229.0 10 0

DATE: FEB 27TH, 20 19

DRAWING TITLE: PLUMBING NOTES, LEGEND, AND SCHEDULES

P0.10

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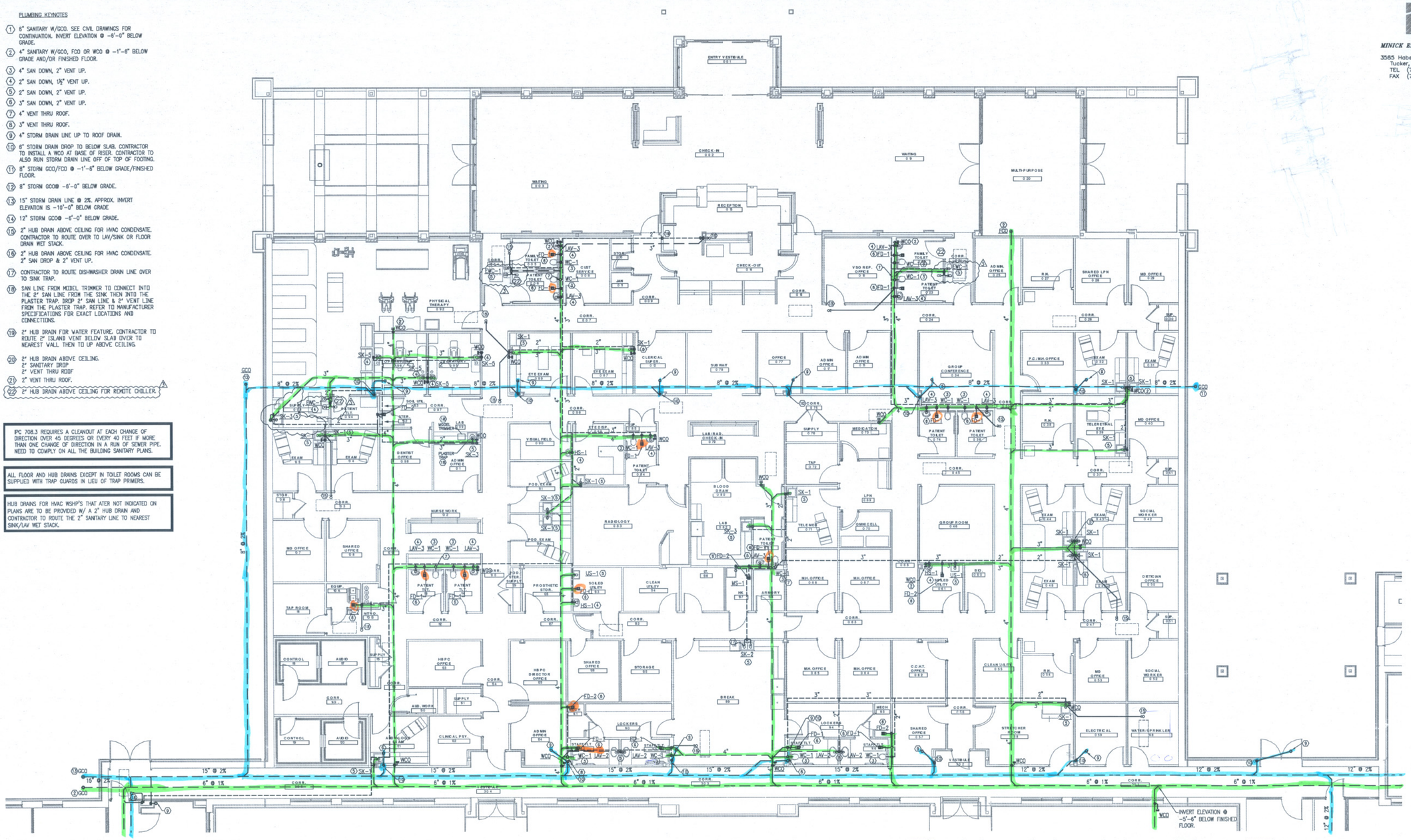
PLUMBING KEYNOTES

1. 6" SANITARY W/GCO. SEE CIVIL DRAWINGS FOR CONTINUATION. INVERT ELEVATION @ -6'-0" BELOW GRADE.
2. 4" SANITARY W/GCO, FCO OR WCO @ -1'-6" BELOW GRADE AND/OR FINISHED FLOOR.
3. 4" SAN DOWN, 2" VENT UP.
4. 2" SAN DOWN, 1½" VENT UP.
5. 2" SAN DOWN, 2" VENT UP.
6. 3" SAN DOWN, 2" VENT UP.
7. 4" VENT THRU ROOF.
8. 3" VENT THRU ROOF.
9. 4" STORM DRAIN LINE UP TO ROOF DRAIN.
10. 6" STORM DRAIN DROP TO BELOW SLAB. CONTRACTOR TO INSTALL A WCO AT BASE OF RISER. CONTRACTOR TO ALSO RUN STORM DRAIN LINE OFF OF TOP OF FOOTING.
11. 8" STORM GCO/FCO @ -1'-6" BELOW GRADE/FINISHED FLOOR.
12. 8" STORM GCO@ -6'-0" BELOW GRADE.
13. 15" STORM DRAIN LINE @ 2% APPROX. INVERT ELEVATION IS -10'-0" BELOW GRADE
14. 12" STORM GCO@ -6'-0" BELOW GRADE.
15. 2" HUB DRAIN ABOVE CEILING FOR HVAC CONDENSATE. CONTRACTOR TO ROUTE OVER TO LAV/SINK OR FLOOR DRAIN WET STACK.
16. 2" HUB DRAIN ABOVE CEILING FOR HVAC CONDENSATE. 2" SAN DROP & 2" VENT UP.
17. CONTRACTOR TO ROUTE DISHWASHER DRAIN LINE OVER TO SINK TRAP.
18. SAN LINE FROM MIDEL TRIMMER TO CONNECT INTO THE 2" SAN LINE FROM THE SINK THEN INTO THE PLASTER TRAP. DROP 2" SAN LINE & 2" VENT LINE FROM THE PLASTER TRAP. REFER TO MANUFACTURER SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTIONS.
19. 2" HUB DRAIN FOR WATER FEATURE. CONTRACTOR TO ROUTE 2" ISLAND VENT BELOW SLAB OVER TO NEAREST WALL. THEN TO UP ABOVE CEILING.
20. 2" HUB DRAIN ABOVE CEILING.
    2" SANITARY DROP
    2" VENT THRU ROOF
21. 2" VENT THRU ROOF.
22. 2" HUB DRAIN ABOVE CEILING FOR REMOTE CHILLER.

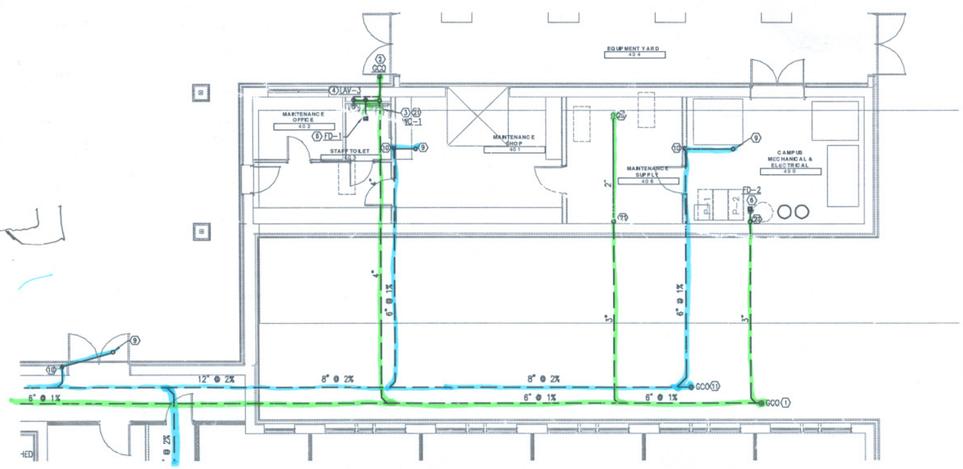
IPC 708.3 REQUIRES A CLEANOUT AT EACH CHANGE OF DIRECTION OVER 45 DEGREES OR EVERY 40 FEET IF MORE THAN ONE CHANGE OF DIRECTION IN A RUN OF SEWER PIPE. NEED TO COMPLY ON ALL THE BUILDING SANITARY PLANS.

ALL FLOOR AND HUB DRAINS EXCEPT IN TOILET ROOMS CAN BE SUPPLIED WITH TRAP GUARDS IN LIEU OF TRAP PRIMERS.

HUB DRAINS FOR HVAC WSHP'S THAT ATER NOT INDICATED ON PLANS ARE TO BE PROVIDED W/ A 2" HUB DRAIN AND CONTRACTOR TO ROUTE THE 2" SANITARY LINE TO NEAREST SINK/LAV WET STACK.



1 P1.0 PLUMBING SANITARY PLAN - CBOC
SCALE: 1/8" = 1'-0"



2 P1.0 PLUMBING SANITARY PLAN - PHYSICAL PLANT
SCALE: 1/8" = 1'-0"

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DRAWING TITLE: PLUMBING FLOOR PLAN - SANITARY - CBOC

P1.0

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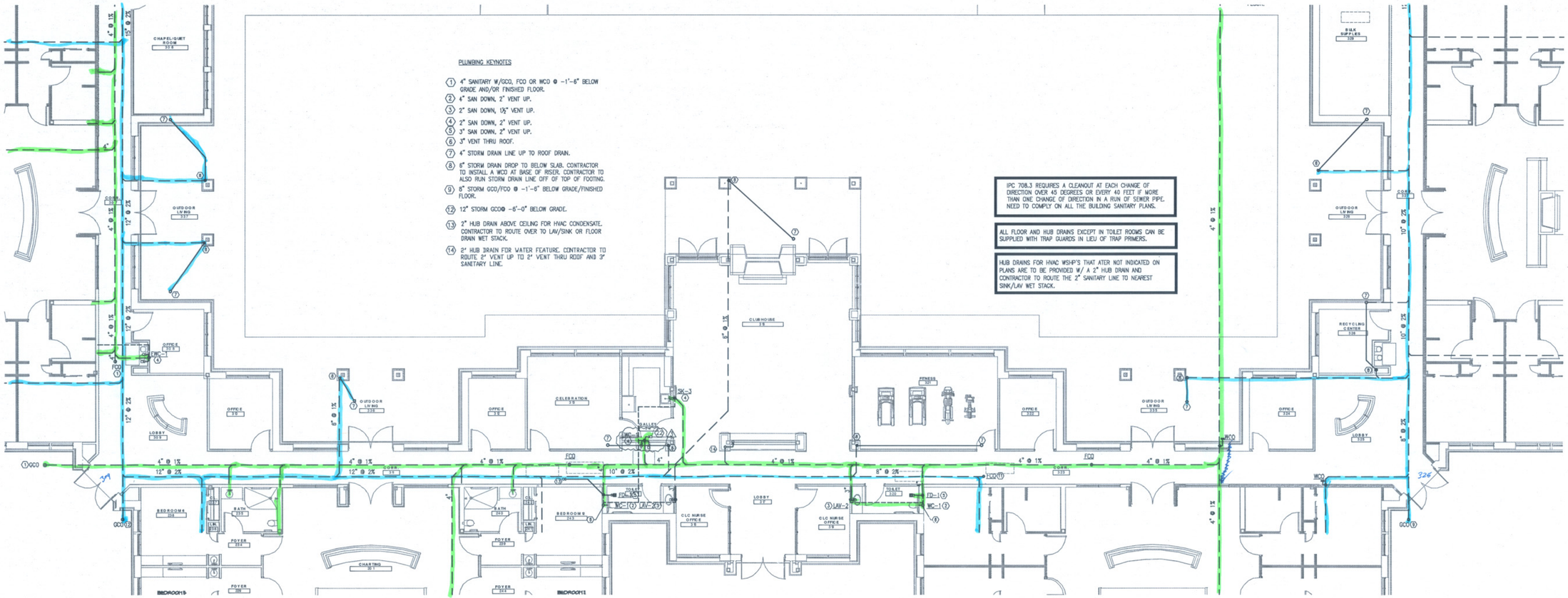
PLUMBING KEYNOTES

1. 4" SANITARY W/GCO, FCO OR WCO @ -1'-6" BELOW GRADE AND/OR FINISHED FLOOR.
2. 4" SAN DOWN, 2" VENT UP.
3. 2" SAN DOWN, 1½" VENT UP.
4. 2" SAN DOWN, 2" VENT UP.
5. 3" SAN DOWN, 2" VENT UP.
6. 3" VENT THRU ROOF.
7. 4" STORM DRAIN LINE UP TO ROOF DRAIN.
8. 6" STORM DRAIN DROP TO BELOW SLAB. CONTRACTOR TO INSTALL A WCO AT BASE OF RISER. CONTRACTOR TO ALSO RUN STORM DRAIN LINE OFF OF TOP OF FOOTING.
9. 8" STORM GCO/FCO @ -1'-6" BELOW GRADE/FINISHED FLOOR.
12. 12" STORM GCO@ -6'-0" BELOW GRADE.
13. 2" HUB DRAIN ABOVE CEILING FOR HVAC CONDENSATE. CONTRACTOR TO ROUTE OVER TO LAV/SINK OR FLOOR DRAIN WET STACK.
14. 2" HUB DRAIN FOR WATER FEATURE. CONTRACTOR TO ROUTE 2" VENT UP TO 2" VENT THRU ROOF AND 3" SANITARY LINE.

IPC 708.3 REQUIRES A CLEANOUT AT EACH CHANGE OF DIRECTION OVER 45 DEGREES OR EVERY 40 FEET IF MORE THAN ONE CHANGE OF DIRECTION IN A RUN OF SEWER PIPE. NEED TO COMPLY ON ALL THE BUILDING SANITARY PLANS.

ALL FLOOR AND HUB DRAINS EXCEPT IN TOILET ROOMS CAN BE SUPPLIED WITH TRAP GUARDS IN LIEU OF TRAP PRIMERS.

HUB DRAINS FOR HVAC WSHP'S THAT ATER NOT INDICATED ON PLANS ARE TO BE PROVIDED W/ A 2" HUB DRAIN AND CONTRACTOR TO ROUTE THE 2" SANITARY LINE TO NEAREST SINK/LAV WET STACK.



1 / P 111 PLUMBING SANITARY PLAN - CBOC

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

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10886 PROFESSIONAL ENGINEER MARK MINICK

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3/6/14	ADDENDUM 3

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P 111

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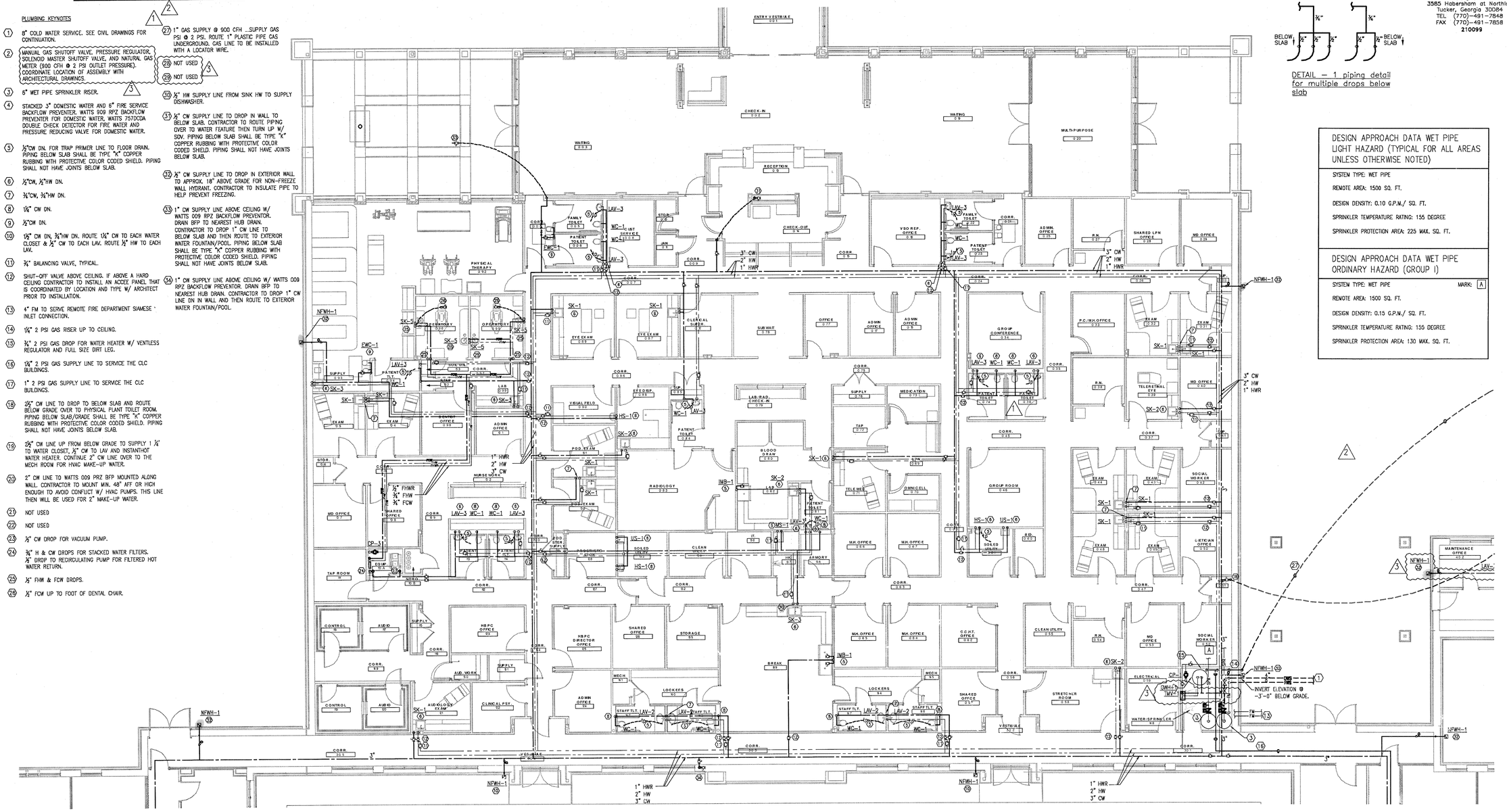
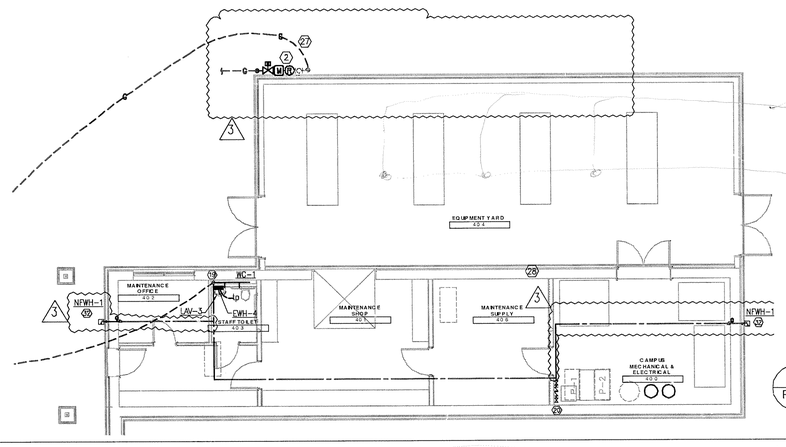
ALL FLOOR AND HUB DRAINS EXCEPT IN TOILET ROOMS CAN BE SUPPLIED WITH TRAP GUARDS IN LIEU OF TRAP PRIMERS.

PLUMBING KEYNOTES

1. 8" COLD WATER SERVICE. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. MANUAL GAS SHUTOFF VALVE, PRESSURE REGULATOR, SOLENOID MASTER SHUTOFF VALVE, AND NATURAL GAS METER (900 CFH @ 2 PSI OUTLET PRESSURE). COORDINATE LOCATION OF ASSEMBLY WITH ARCHITECTURAL DRAWINGS.
3. 6" WET PIPE SPRINKLER RISER.
4. STACKED 3" DOMESTIC WATER AND 6" FIRE SERVICE BACKFLOW PREVENTER. WATTS 909 RPZ BACKFLOW PREVENTER FOR DOMESTIC WATER. WATTS 757DCDA DOUBLE CHECK DETECTOR FOR FIRE WATER AND PRESSURE REDUCING VALVE FOR DOMESTIC WATER.
5. ½"CW DN. FOR TRAP PRIMER LINE TO FLOOR DRAIN. PIPING BELOW SLAB SHALL BE TYPE "K" COPPER RUBBING WITH PROTECTIVE COLOR CODED SHIELD. PIPING SHALL NOT HAVE JOINTS BELOW SLAB.
6. ½"CW, ½"HW DN.
7. ¾"CW, ¾"HW DN.
8. 1½" CW DN.
9. ½"CW DN.
10. 1½" CW DN, ¾"HW DN. ROUTE 1¼" CW TO EACH WATER CLOSET & ½" CW TO EACH LAV. ROUTE ½" HW TO EACH LAV.
11. ¾" BALANCING VALVE, TYPICAL.
12. SHUT-OFF VALVE ABOVE CEILING. IF ABOVE A HARD CEILING CONTRACTOR TO INSTALL AN ACCEE PANEL THAT IS COORDINATED BY LOCATION AND TYPE W/ ARCHITECT PRIOR TO INSTALLATION.
13. 4" FM TO SERVE REMOTE FIRE DEPARTMENT SIAMESE ' INLET CONNECTION.
14. 1¼" 2 PSI GAS RISER UP TO CEILING.
15. ¾" 2 PSI GAS DROP FOR WATER HEATER W/ VENTLESS REGULATOR AND FULL SIZE DIRT LEG.
16. 1¼" 2 PSI GAS SUPPLY LINE TO SERVICE THE CLC BUILDINGS.
17. 1" 2 PSI GAS SUPPLY LINE TO SERVICE THE CLC BUILDINGS.
18. 2½" CW LINE TO DROP TO BELOW SLAB AND ROUTE BELOW GRADE OVER TO PHYSICAL PLANT TOILET ROOM. PIPING BELOW SLAB/GRADE SHALL BE TYPE "K" COPPER RUBBING WITH PROTECTIVE COLOR CODED SHIELD. PIPING SHALL NOT HAVE JOINTS BELOW SLAB.
19. 2½" CW LINE UP FROM BELOW GRADE TO SUPPLY 1 ¼" TO WATER CLOSET, ½" CW TO LAV AND INSTANTHOT WATER HEATER. CONTINUE 2" CW LINE OVER TO THE MECH ROOM FOR HVAC MAKE-UP WATER.
20. 2" CW LINE TO WATTS 009 PRZ BFP MOUNTED ALONG WALL. CONTRACTOR TO MOUNT MIN. 48" AFF OR HIGH ENOUGH TO AVOID CONFLICT W/ HVAC PUMPS. THIS LINE THEN WILL BE USED FOR 2" MAKE-UP WATER.
21. NOT USED
22. NOT USED
23. ½" CW DROP FOR VACUUM PUMP.
24. ¾" H & CW DROPS FOR STACKED WATER FILTERS. ¾" DROP TO RECIRCULATING PUMP FOR FILTERED HOT WATER RETURN.
25. ½" FHW & FCW DROPS.
26. ½" FCW UP TO FOOT OF DENTAL CHAIR.
27. 1" GAS SUPPLY @ 900 CFH ...SUPPLY GAS PSI @ 2 PSI. ROUTE 1" PLASTIC PIPE GAS UNDERGROUND. GAS LINE TO BE INSTALLED WITH A LOCATOR WIRE.
28. NOT USED
29. NOT USED
30. ½" HW SUPPLY LINE FROM SINK HW TO SUPPLY DISHWASHER.
31. ½" CW SUPPLY LINE TO DROP IN WALL TO BELOW SLAB. CONTRACTOR TO ROUTE PIPING OVER TO WATER FEATURE THEN TURN UP W/ SDV. PIPING BELOW SLAB SHALL BE TYPE "K" COPPER RUBBING WITH PROTECTIVE COLOR CODED SHIELD. PIPING SHALL NOT HAVE JOINTS BELOW SLAB.
32. ½" CW SUPPLY LINE TO DROP IN EXTERIOR WALL TO APPROX. 18" ABOVE GRADE FOR NON-FREEZE WALL HYDRANT. CONTRACTOR TO INSULATE PIPE TO HELP PREVENT FREEZING.
33. 1" CW SUPPLY LINE ABOVE CEILING W/ WATTS 009 RPZ BACKFLOW PREVENTOR. DRAIN BFP TO NEAREST HUB DRAIN. CONTRACTOR TO DROP 1" CW LINE TO BELOW SLAB AND THEN ROUTE TO EXTERIOR WATER FOUNTAIN/POOL. PIPING BELOW SLAB SHALL BE TYPE "K" COPPER RUBBING WITH PROTECTIVE COLOR CODED SHIELD. PIPING SHALL NOT HAVE JOINTS BELOW SLAB.
34. 1" CW SUPPLY LINE ABOVE CEILING W/ WATTS 009 RPZ BACKFLOW PREVENTOR. DRAIN BFP TO NEAREST HUB DRAIN. CONTRACTOR TO DROP 1" CW LINE DN IN WALL AND THEN ROUTE TO EXTERIOR WATER FOUNTAIN/POOL.



1 / P 120 PLUMBING WATER & GAS PLAN - CBOC
SCALE: 1/8" = 1'-0"



2 / P 120 PLUMBING WATER & GAS PLAN - PHYSICAL PLANT
SCALE: 1/8" = 1'-0"

DETAIL – 1 piping detail for multiple drops below slab

DESIGN APPROACH DATA WET PIPE LIGHT HAZARD (TYPICAL FOR ALL AREAS UNLESS OTHERWISE NOTED)	
SYSTEM TYPE: WET PIPE	
REMOTE AREA: 1500 SQ. FT.	
DESIGN DENSITY: 0.10 G.P.M./ SQ. FT.	
SPRINKLER TEMPERATURE RATING: 155 DEGREE	
SPRINKLER PROTECTION AREA: 225 MAX. SQ. FT.	

DESIGN APPROACH DATA WET PIPE ORDINARY HAZARD (GROUP I)	
SYSTEM TYPE: WET PIPE	MARK: A
REMOTE AREA: 1500 SQ. FT.	
DESIGN DENSITY: 0.15 G.P.M./ SQ. FT.	
SPRINKLER TEMPERATURE RATING: 155 DEGREE	
SPRINKLER PROTECTION AREA: 130 MAX. SQ. FT.	

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TRINKA DAVIS VETERAN'S VILLAGE
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GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

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12/16/10	DD REVIEW MEETING
2/15/11	PROGRESS PRINT
2/21/11	ISSUED FOR BID
3/4/11	ADDENDUM #1
3/11/11	ADDENDUM #2
3/18/11	ADDENDUM 3

PROJECT NO: 229.010
DATE: FEB 21TH, 2011
DRAWING TITLE: PLUMBING FLOOR PLAN - DOMESTIC WATER - CBOC

P 120

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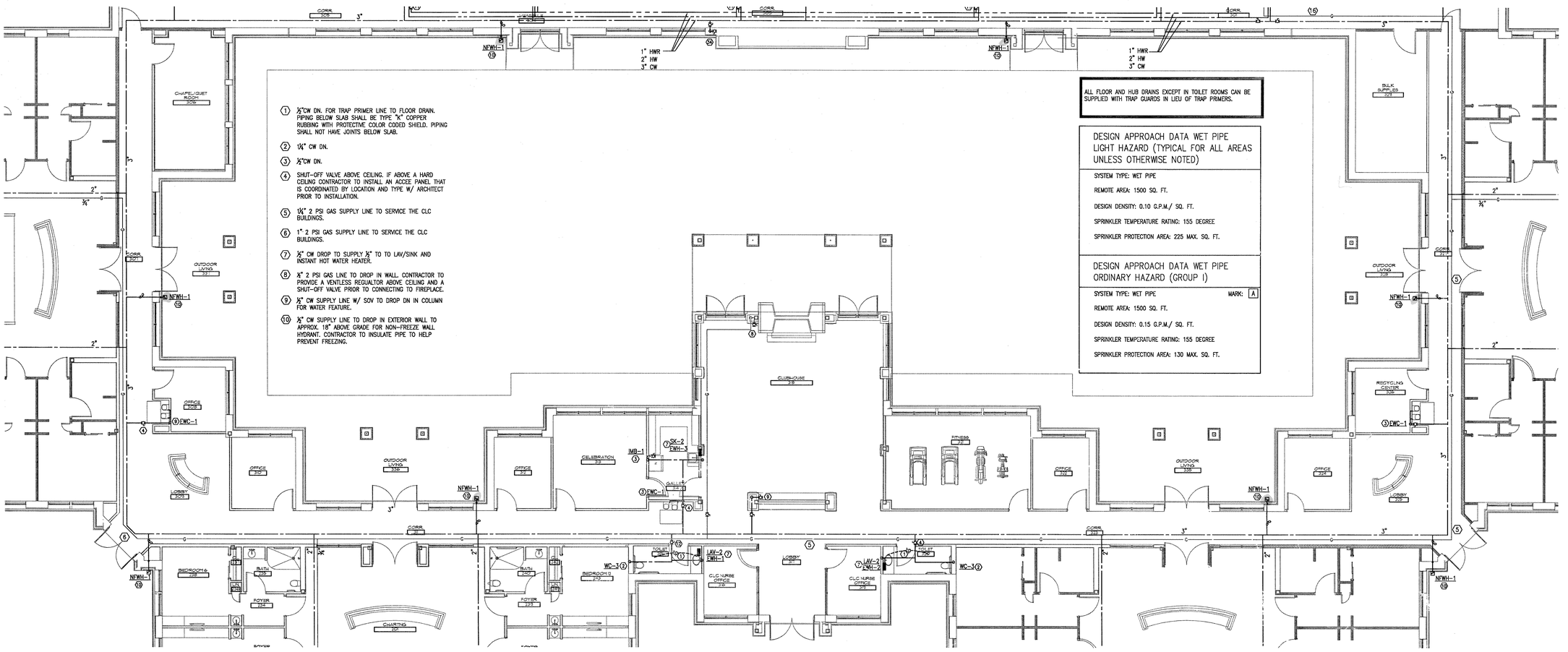

1. 1/2"CW DN. FOR TRAP PRIMER LINE TO FLOOR DRAIN. PIPING BELOW SLAB SHALL BE TYPE "K" COPPER RUBBING WITH PROTECTIVE COLOR CODED SHIELD. PIPING SHALL NOT HAVE JOINTS BELOW SLAB.
2. 1/4" CW DN.
3. 1/2"CW DN.
4. SHUT-OFF VALVE ABOVE CEILING. IF ABOVE A HARD CEILING CONTRACTOR TO INSTALL AN ACCEE PANEL THAT IS COORDINATED BY LOCATION AND TYPE W/ ARCHITECT PRIOR TO INSTALLATION.
5. 1/4" 2 PSI GAS SUPPLY LINE TO SERVICE THE CLC BUILDINGS.
6. 1" 2 PSI GAS SUPPLY LINE TO SERVICE THE CLC BUILDINGS.
7. 1/2" CW DROP TO SUPPLY 1/2" TO TO LAV/SINK AND INSTANT HOT WATER HEATER.
8. 1" 2 PSI GAS LINE TO DROP IN WALL. CONTRACTOR TO PROVIDE A VENTLESS REGUALTOR ABOVE CEILING AND A SHUT-OFF VALVE PRIOR TO CONNECTING TO FIREPLACE.
9. 1/2" CW SUPPLY LINE W/ SOV TO DROP DN IN COLUMN FOR WATER FEATURE.
10. 1/2" CW SUPPLY LINE TO DROP IN EXTERIOR WALL TO APPROX. 18" ABOVE GRADE FOR NON-FREEZE WALL HYDRANT. CONTRACTOR TO INSULATE PIPE TO HELP PREVENT FREEZING.

ALL FLOOR AND HUB DRAINS EXCEPT IN TOILET ROOMS CAN BE SUPPLIED WITH TRAP GUARDS IN LIEU OF TRAP PRIMERS.

DESIGN APPROACH DATA WET PIPE
LIGHT HAZARD (TYPICAL FOR ALL AREAS UNLESS OTHERWISE NOTED)

SYSTEM TYPE: WET PIPE
REMOTE AREA: 1500 SQ. FT.
DESIGN DENSITY: 0.10 G.P.M./ SQ. FT.
SPRINKLER TEMPERATURE RATING: 155 DEGREE
SPRINKLER PROTECTION AREA: 225 MAX. SQ. FT.

DESIGN APPROACH DATA WET PIPE
ORDINARY HAZARD (GROUP I)

SYSTEM TYPE: WET PIPE — MARK: A
REMOTE AREA: 1500 SQ. FT.
DESIGN DENSITY: 0.15 G.P.M./ SQ. FT.
SPRINKLER TEMPERATURE RATING: 155 DEGREE
SPRINKLER PROTECTION AREA: 130 MAX. SQ. FT.

1 / P1.20 PLUMBING SANITARY PLAN - CBOC
SCALE: 1/8" = 1'-0"

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

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DRAWING TITLE: PLUMBING FLOOR PLAN - DOMESTIC WATER - CBOC

P1.21

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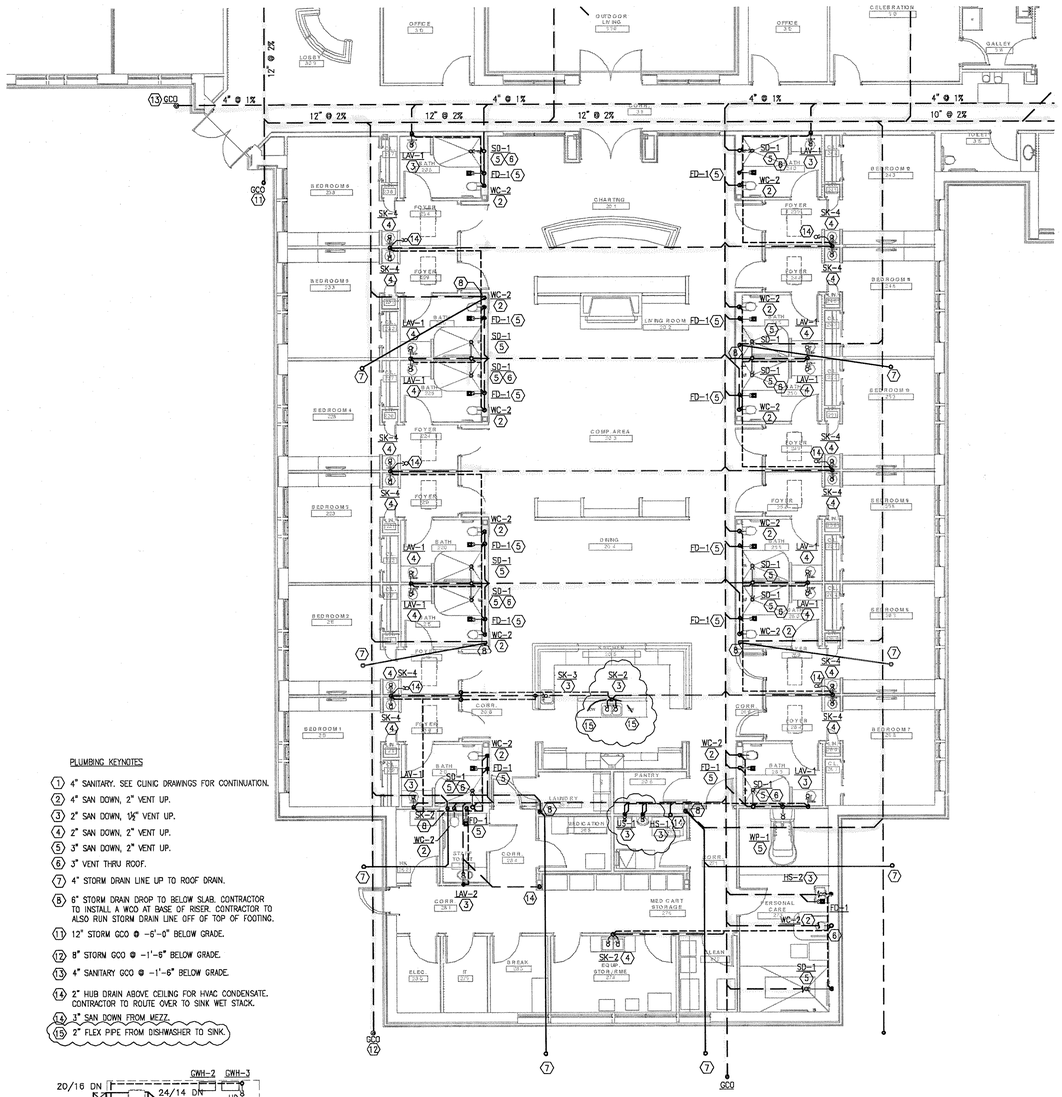
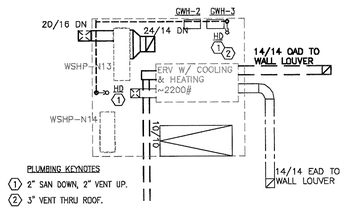
CARROLLTON, GA 30117



PLUMBING KEYNOTES

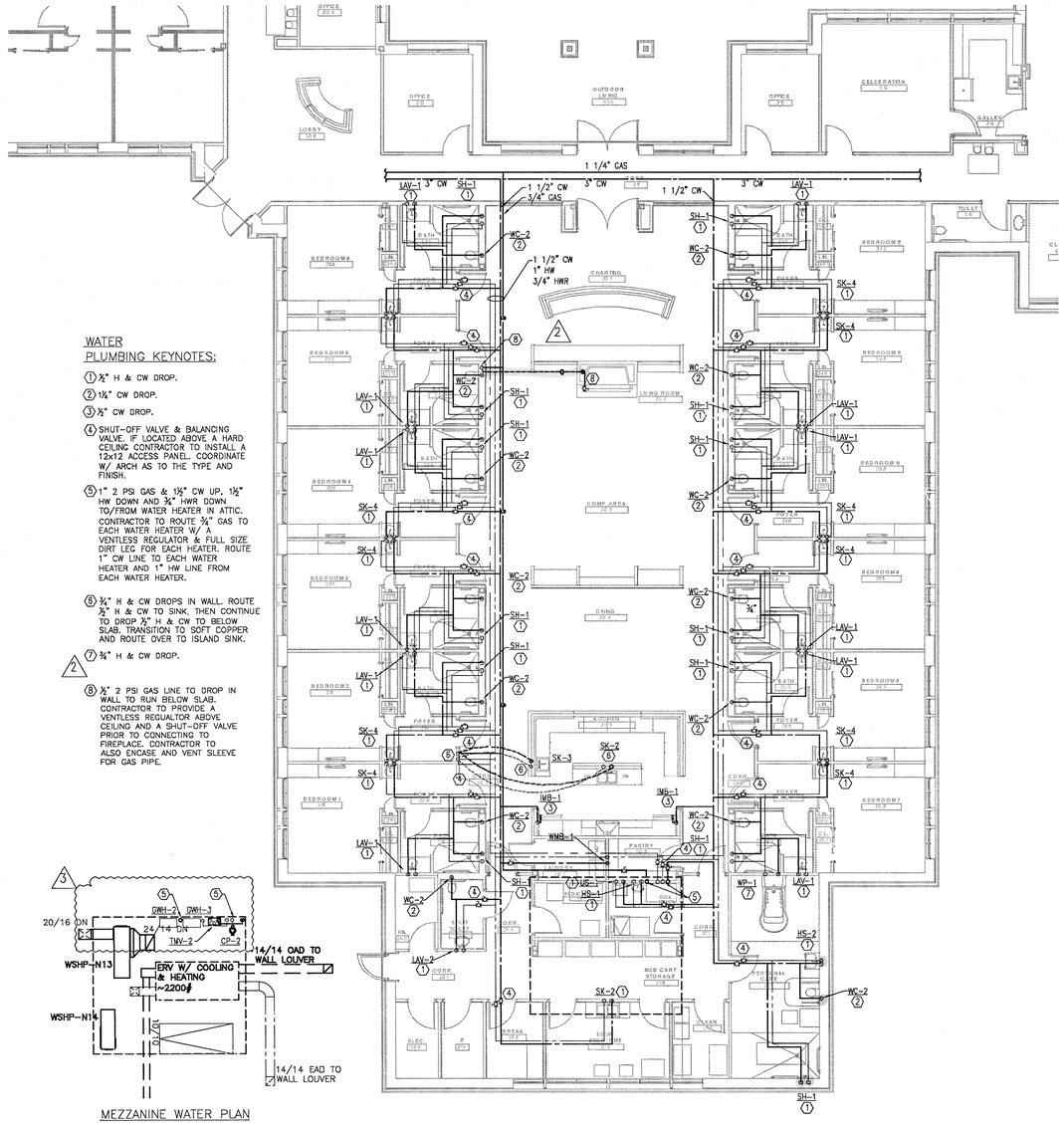
1. 4" SANITARY. SEE CLINIC DRAWINGS FOR CONTINUATION.
2. 4" SAN DOWN, 2" VENT UP.
3. 2" SAN DOWN, 1½" VENT UP.
4. 2" SAN DOWN, 2" VENT UP.
5. 3" SAN DOWN, 2" VENT UP.
6. 3" VENT THRU ROOF.
7. 4" STORM DRAIN LINE UP TO ROOF DRAIN.
8. 6" STORM DRAIN DROP TO BELOW SLAB. CONTRACTOR TO INSTALL A WCO AT BASE OF RISER. CONTRACTOR TO ALSO RUN STORM DRAIN LINE OFF OF TOP OF FOOTING.
11. 12" STORM GCO @ -5'-0" BELOW GRADE.
12. 8" STORM GCO @ -1'-6" BELOW GRADE.
13. 4" SANITARY GCO @ -1'-6" BELOW GRADE.
14. 2" HUB DRAIN ABOVE CEILING FOR HVAC CONDENSATE. CONTRACTOR TO ROUTE OVER TO SINK WET STACK.
15. 1" SAN DOWN FROM MEZZ.
16. 2" FLEX PIPE FROM DISHWASHER TO SINK.



PLUMBING KEYNOTES

1. 2" SAN DOWN, 2" VENT UP.
2. 3" VENT THRU ROOF.

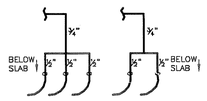
MEZZANINE SANITARY PLAN



WATER PLUMBING KEYNOTES:

1. ½" H & CW DROP.
2. 1¼" CW DROP.
3. ½" CW DROP.
4. SHUT-OFF VALVE & BALANCING VALVE. IF LOCATED ABOVE A HARD CEILING CONTRACTOR TO INSTALL A 12x12 ACCESS PANEL. COORDINATE W/ ARCH AS TO THE TYPE AND FINISH.
5. 1" 2 PSI GAS & 1½" CW UP, 1½" HW DOWN AND ¾" HWR DOWN TO/FROM WATER HEATER IN ATTIC. CONTRACTOR TO ROUTE ¾" GAS TO EACH WATER HEATER W/ A VENTLESS REGULATOR & FULL SIZE DIRT LEG FOR EACH HEATER. ROUTE 1" CW LINE TO EACH WATER HEATER AND 1" HW LINE FROM EACH WATER HEATER.
6. ¾" H & CW DROPS IN WALL. ROUTE ½" H & CW TO SINK, THEN CONTINUE TO DROP ½" H & CW TO BELOW SLAB. TRANSITION TO SOFT COPPER AND ROUTE OVER TO ISLAND SINK.
7. ¾" H & CW DROP.
8. ½" 2 PSI GAS LINE TO DROP IN WALL TO RUN BELOW SLAB. CONTRACTOR TO PROVIDE A VENTLESS REGULATOR ABOVE CEILING AND A SHUT-OFF VALVE PRIOR TO CONNECTING TO FIREPLACE. CONTRACTOR TO ALSO ENCASE AND VENT SLEEVE FOR GAS PIPE.

MEZZANINE WATER PLAN



DETAIL – 1 piping detail for multiple drops below slab

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3/18/09	ADDENDUM 3

PROJECT NO: 229.010.0

DATE: FEB 27TH, 2009

DRAWING TITLE: PLUMBING FLOOR PLAN - SANITARY & WATER - CLC

P2.10

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1 / P2.10 PLUMBING SANITARY PLAN - CLC
SCALE: 1/8" = 1'-0"

2 / P2.10 PLUMBING WATER PLAN - CLC
SCALE: 1/8" = 1'-0"

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PLUMBING KEYNOTES

1. 4" RD-1 PRIMARY ROOF DRAIN CAPABLE OF HANDLING 2200 SQUARE FEET OF ROOF AREA EACH BASED UPON 4" OF RAINFALL.
2. 4" OFD-1 OVERFLOW ROOF DRAIN CAPABLE OF HANDLING 2200 SQUARE FEET OF ROOF AREA EACH BASED UPON 4" OF RAINFALL.
3. 6" OVERFLOW STORM DRAIN LINE ROUTED BELOW ROOF UP AS HIGH TO UNDERSIDE OF STRUCTURE AS POSSIBLE.
4. 6" OVERFLOW STORM DRAIN LINE TO TERMINATE HIGH THRU EXTERIOR WALL USING A LAMB TONGUE. FOR EXACT TERMINATION AND LAMB TONGUE LOCATION REFER TO ARCHITECT PRIOR TO INSTALLING THE STORM DRAIN LINES.

1 P3.0 PLUMBING OVERALL ROOF PLAN
SCALE: 1/8" = 1'-0"

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10886 PROFESSIONAL ENGINEER MARK MINICK

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PROJECT NO: 2290100
DATE: FEB 21TH, 2011
DRAWING TITLE: PLUMBING OVERALL ROOF PLAN

P3.0

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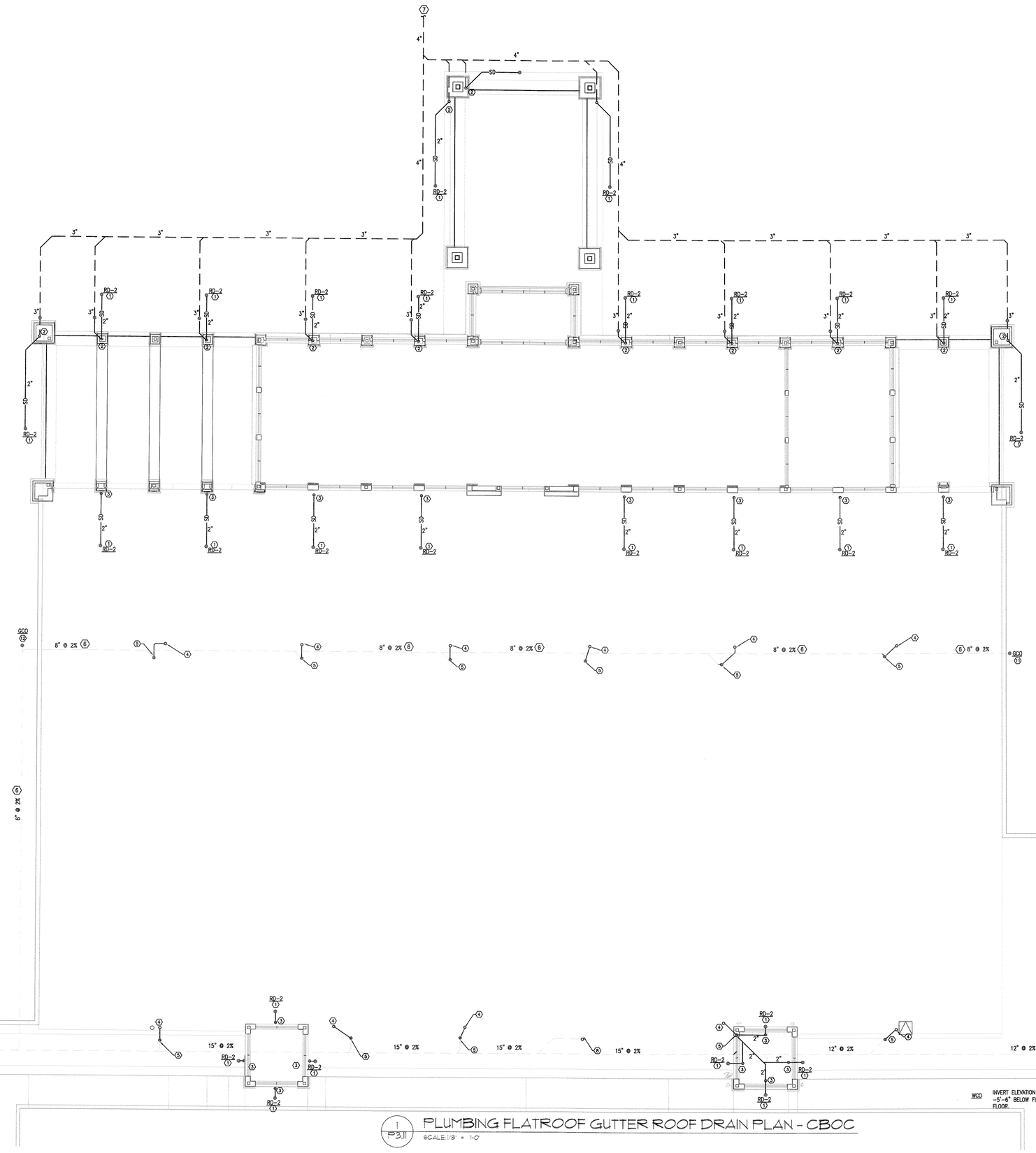
PLUMBING KEYNOTES

1. 2" JR SMITH 1620T BOTTOM OUTLET LOW DOME ROOF DRAIN (RD-2) W/ 2" OUTLET. THIS DRAIN IS LOCATED IN THE CONTINOUS GUTTER OF THE OVERHANG OF THE PITCHED ROOF. FOR EXACT LOCATION REFER TO ARCHITECTURAL PLANS.
2. 2" STORM DRAIN TO ROUTE OVER TO COLUMN AND DROP TO JUST ON TOP OF FOOTING. ROLL OFF TOP OF FOOTING. CONTRACTOR TO INSTALL A CLEANOUT IN GRADE ON THE LINE AFTER LEAVING THE BUILDING. COORDINATE LOCATION AND TYPE W/ ARCHITECT PRIOR TO INSTALLATION.
3. 2" STORM DRAIN TO ROUTE FROM OVERHANG GUTTER BACK TOWARDS THE BUILDING. PIPE DOWN THRU OVERHANG AND SPILL ONTO ROOF.
4. 4" STORM DRAIN LINE UP TO ROOF DRAIN.
5. 6" STORM DRAIN DROP TO BELOW SLAB. CONTRACTOR TO INSTALL A WCO AT BASE OF RISER. CONTRACTOR TO ALSO RUN STORM DRAIN LINE OFF OF TOP OF FOOTING.
6. EXISTING STORM DRAIN LINE BELOW SLAB.
7. 4" STORM DRAIN BELOW GRADE. CONTRACTOR TO ROUTE OVER TO NEAREST CURB AND SPILL TO DAYLIGHT. COORDINATE W/ ARCHITECT PRIOR TO SLECTING ALOCATION.

IPC 708.3 REQUIRES A CLEANOUT AT EACH CHANGE OF DIRECTION OVER 45 DEGREES OR EVERY 40 FEET IF MORE THAN ONE CHANGE OF DIRECTION IN A RUN OF SEWER PIPE. NEED TO COMPLY ON ALL THE BUILDING SANITARY PLANS.



1 P3.11 PLUMBING FLATROOF GUTTER ROOF DRAIN PLAN - CBOC

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

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GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

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3/18/11	ADDENDUM 3
10/27/11	REVISION #2

PROJECT NO: 229.0100

DATE: FEB 21TH, 2011

DRAWING TITLE: PLUMBING FLATROOF PLAN - STORM - CBOC

P3.11

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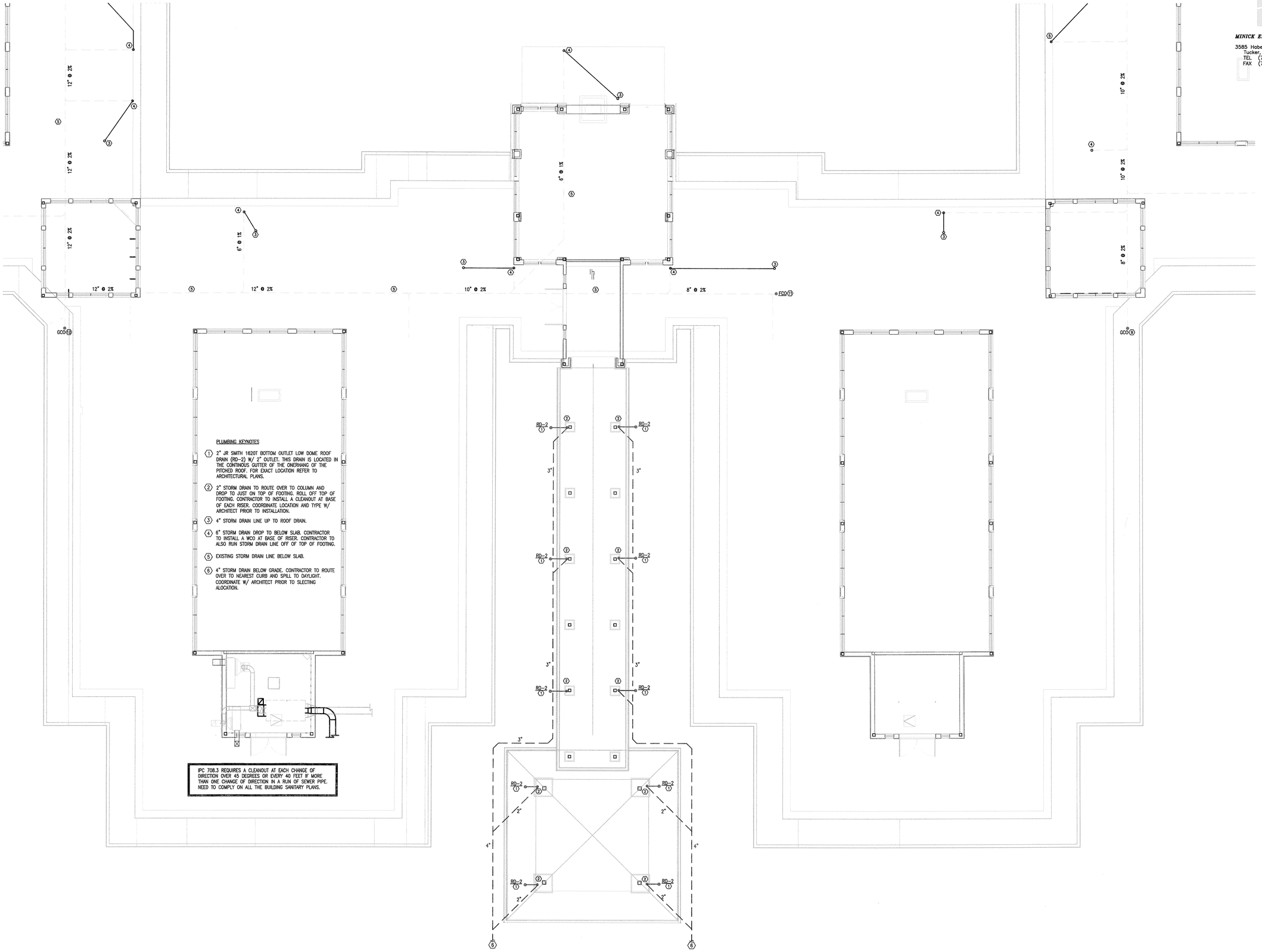

PLUMBING KEYNOTES

1. 2" JR SMITH 1620T BOTTOM OUTLET LOW DOME ROOF DRAIN (RD-2) W/ 2" OUTLET. THIS DRAIN IS LOCATED IN THE CONTINOUS GUTTER OF THE OVERHANG OF THE PITCHED ROOF. FOR EXACT LOCATION REFER TO ARCHITECTURAL PLANS.
2. 2" STORM DRAIN TO ROUTE OVER TO COLUMN AND DROP TO JUST ON TOP OF FOOTING. ROLL OFF TOP OF FOOTING. CONTRACTOR TO INSTALL A CLEANOUT AT BASE OF EACH RISER. COORDINATE LOCATION AND TYPE W/ ARCHITECT PRIOR TO INSTALLATION.
3. 4" STORM DRAIN LINE UP TO ROOF DRAIN.
4. 6" STORM DRAIN DROP TO BELOW SLAB. CONTRACTOR TO INSTALL A WCO AT BASE OF RISER. CONTRACTOR TO ALSO RUN STORM DRAIN LINE OFF OF TOP OF FOOTING.
5. EXISTING STORM DRAIN LINE BELOW SLAB.
6. 4" STORM DRAIN BELOW GRADE. CONTRACTOR TO ROUTE OVER TO NEAREST CURB AND SPILL TO DAYLIGHT. COORDINATE W/ ARCHITECT PRIOR TO SLECTING ALOCATION.

IPC 708.3 REQUIRES A CLEANOUT AT EACH CHANGE OF DIRECTION OVER 45 DEGREES OR EVERY 40 FEET IF MORE THAN ONE CHANGE OF DIRECTION IN A RUN OF SEWER PIPE. NEED TO COMPLY ON ALL THE BUILDING SANITARY PLANS.

1 / P3.12 PLUMBING FLATROOF GUTTER ROOF DRAIN PLAN - CBOC

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

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GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

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3/18/11	ADDENDUM #3
10/27/11	REVISION #2

PROJECT NO.
223.01.00

DATE:
FEB 21TH, 2011

DRAWING TITLE
PLUMBING FLATROOF PLAN - STORM - CBOC

P3.12 5

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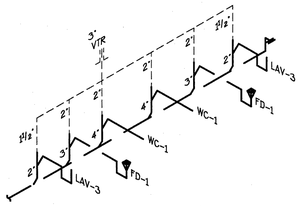

1 P4.10 TLT ROOM 113 & 114 SANITARY RISER
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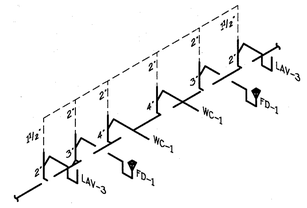

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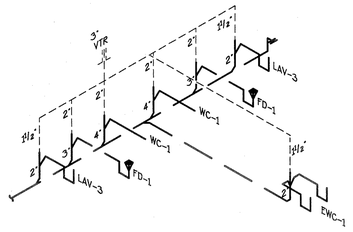

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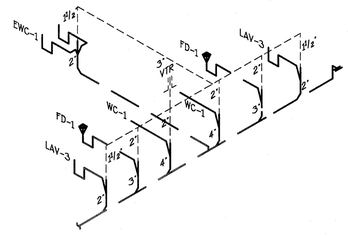

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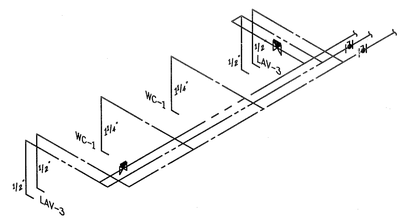
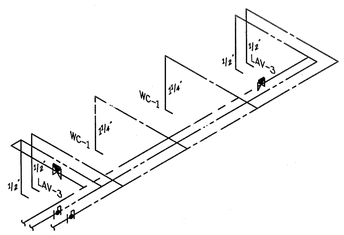


5 P4.10 TLT ROOM 113 & 114 WATER RISER
SCALE: NONE



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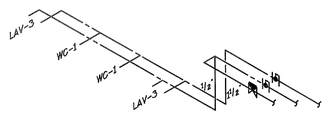

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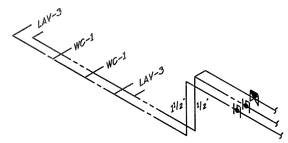

8 P4.10 TLT ROOM 022 & 023 WATER RISER
SCALE: NONE

TRINKA DAVIS VETERANS VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 10986 PROFESSIONAL ENGINEER MARK MINICK

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11/3/10	PROGRESS PRINT
12/14/10	DD REVIEW MEETING
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PROJECT NO:
229.01.00

DATE:
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DRAWING TITLE:
PLUMBING RISER DIAGRAMS - CBCC

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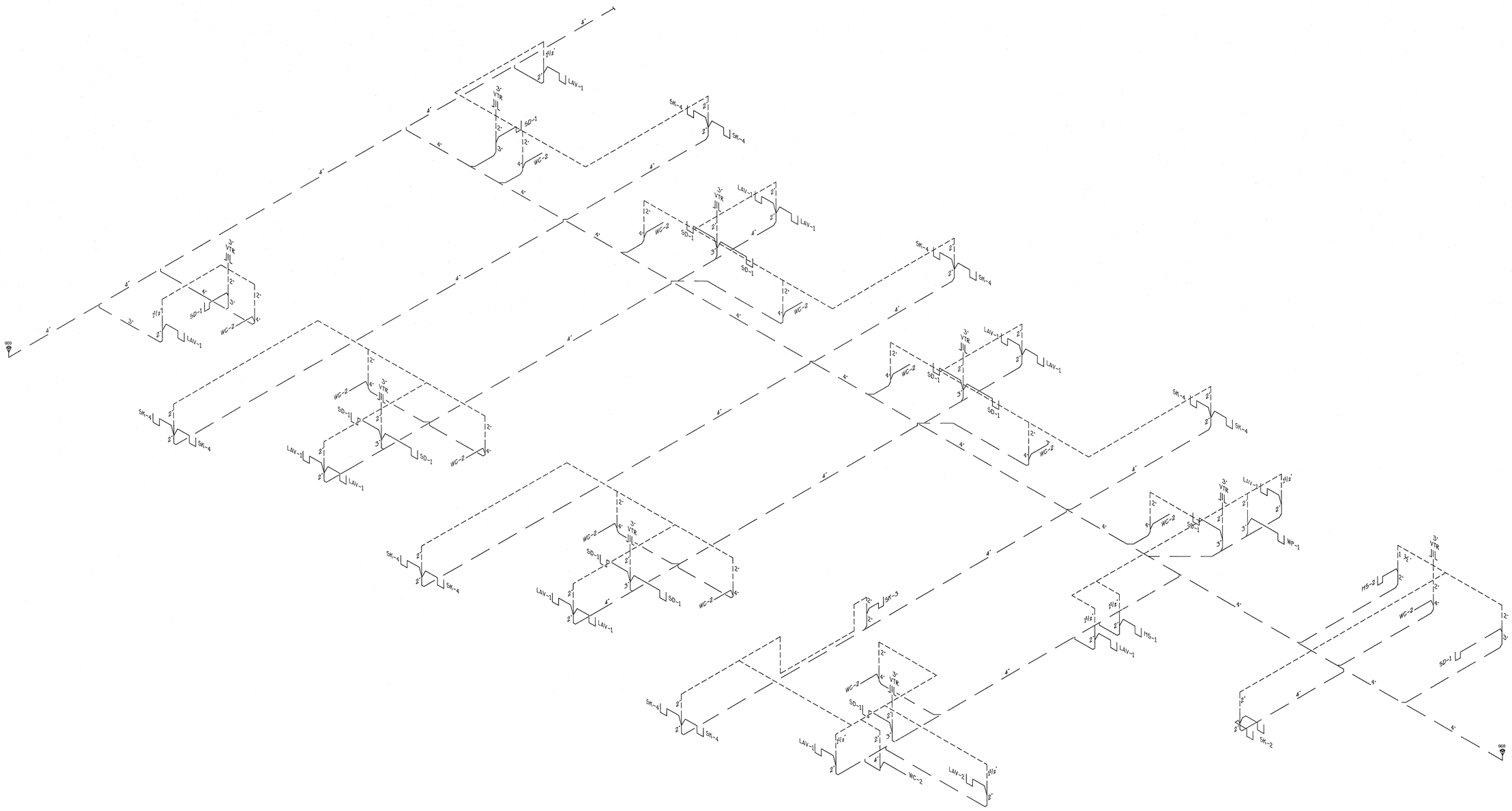

1 / P4.11 DORM SANITARY RISER
SCALE: NONE

TRINKA DAVIS VETERAN'S VILLAGE
CARROLLTON, GA 30117

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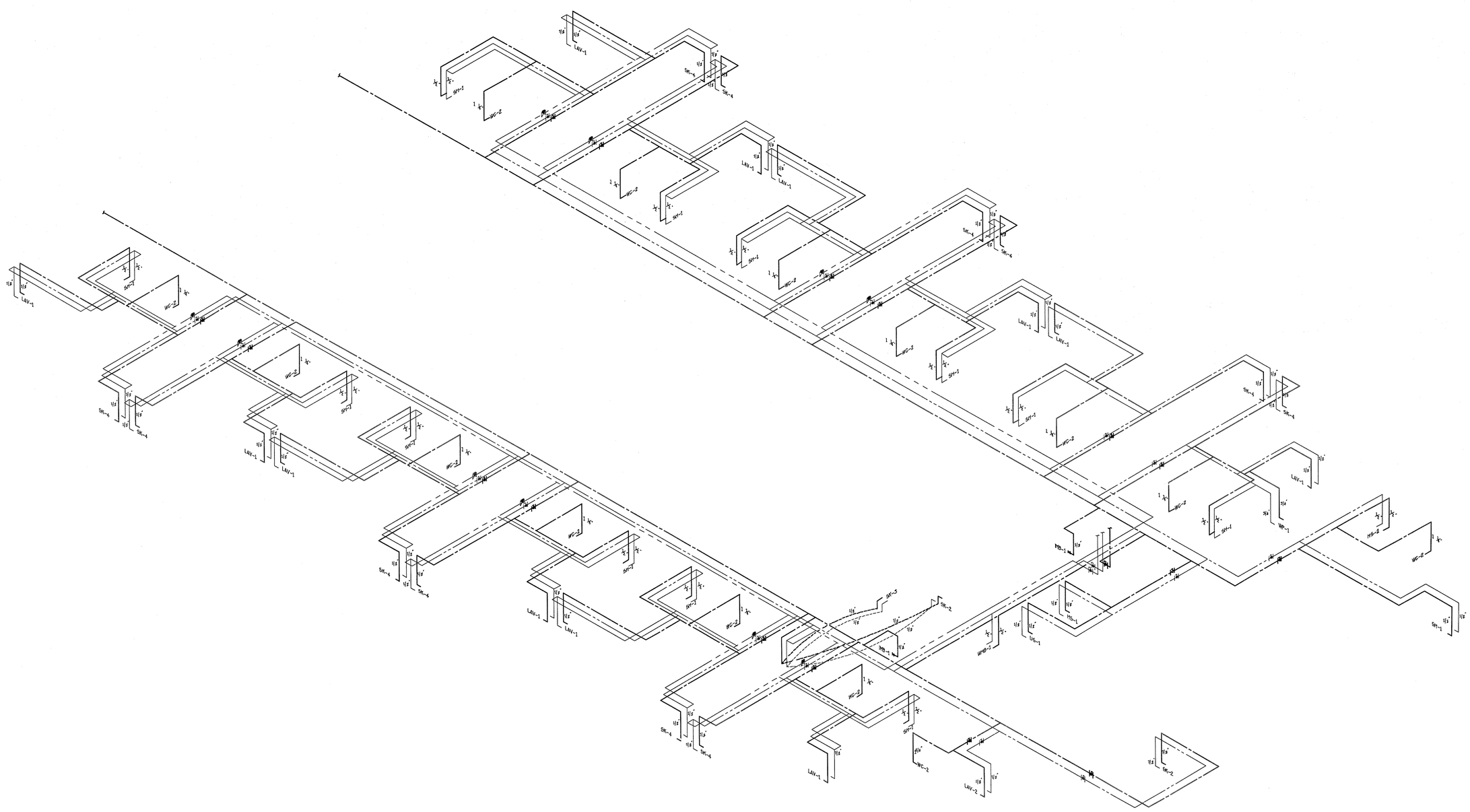

1 / P4.2 DORM WATER RISER
SCALE: NONE

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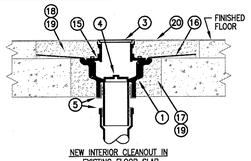
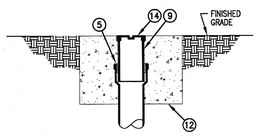
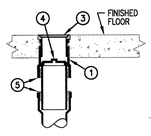


NEW INTERIOR CLEANOUT IN EXISTING FLOOR SLAB



EXTERIOR CLEANOUT (ABBREVIATED ECO)



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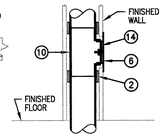
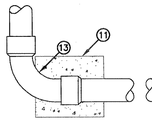
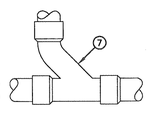


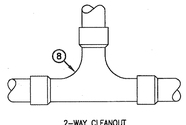
WALL CLEANOUT (ABBREVIATED WCO)



CLEANOUT AT END OF MAIN



CLEANOUT IN MAIN

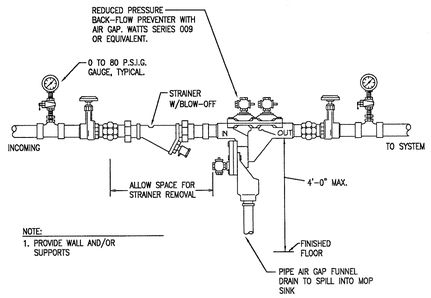


2-WAY CLEANOUT (USED AT JUNCTION OF BUILDING DRAIN AND BUILDING SEWER)

KEY NOTES: (THIS DETAIL ONLY)

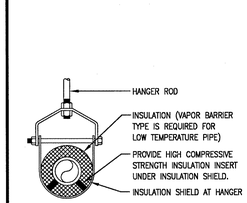
1. CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
2. NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
3. POLISHED NICKEL BRONZE SCORIATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
4. BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
5. PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
6. STAINLESS STEEL ROUND WALL ACCESS COVER.
7. COMBINATION WYE AND EIGHTH BEND FITTING.
8. TWO-WAY CLEANOUT FITTING.
9. CAST IRON CLEANOUT FERRULE.
10. CAST IRON CLEANOUT TEE.
11. 12" x 12" x 12" CONCRETE THRUST BLOCK.
12. 24" x 24" x 12" CONCRETE PAD FLUSH WITH GRADE.
13. LONG SWEEP ELBOW.
14. BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.
15. CAST IRON INVERTIBLE CLAMPING COLLAR.
16. NEW LEAD PAN FLASHING CLAMPED TIGHTLY TO DRAIN BODY. SEE ARCHITECTURAL PLANS.
17. BREAK OUT EXISTING STRUCTURAL CONCRETE FLOOR SLAB.
18. CUT TOPPING MINIMUM 12" BEYOND BROKEN-OUT STRUCTURAL FLOOR SLAB TO NEAREST FLOOR TILE JOINT TO ALLOW FOR INSTALLATION OF NEW LEAD PAN FLASHING.
19. GROUT SOLID AROUND NEW FLOOR DRAIN.
20. NEW FLOOR FINISH TO MATCH EXISTING.

1 CLEANOUTS

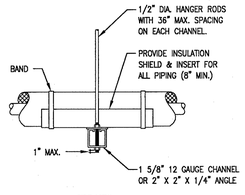


NOTE:
1. PROVIDE WALL AND/OR SUPPORTS

2 DOMESTIC WATER REDUCED PRESSURE BACK-FLOW PREVENTER



ADJUSTABLE CLEVIS HANGER TYPE 1 IN SPECIFICATIONS

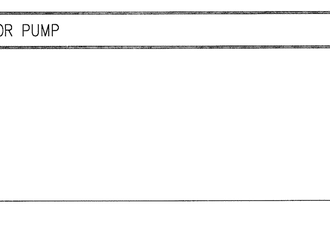


SIDE VIEW

TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

NOTES:
1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.
2. PROVIDE SPRING ISOLATORS FOR FIRST 3 HANGERS UP TO AND BEYOND EQUIPMENT CONNECTION AND/OR THROUGH OUT MECHANICAL ROOMS OR MEZZANINE AREAS.

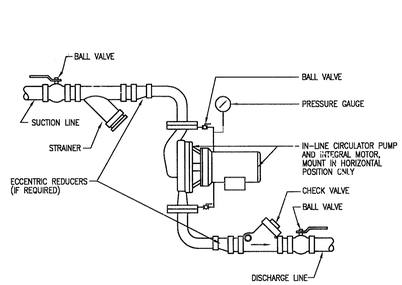
3 TYPICAL PIPE HANGERS



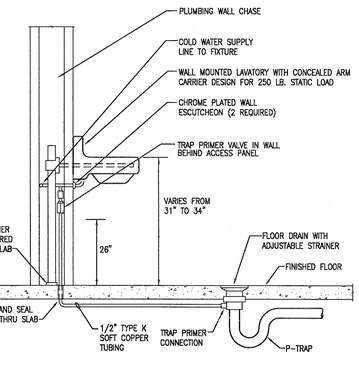
KEY NOTES: (THIS DETAIL ONLY)

1. CAST IRON FLOOR DRAIN BODY WITH ½" TRAP PRIMER TAP AND 3" OUTLET.
2. CAST IRON INVERTIBLE CLAMPING COLLAR.
3. POLISHED NICKEL BRONZE SECURED GRATE, VANDAL-PROOF SCREWS.
4. PUSH-ON NEOPRENE COMPRESSION GASKET.
5. WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.
6. ½" DOMESTIC COLD WATER SUPPLY. CONCEAL IN WALL, ABOVE CEILING OR BELOW FLOOR.
7. 3" DEEP SEAL P-TRAP
8. PRESSURE ACTIVATED TRAP PRIMER VALVE - PRECISION PLUMBING PRODUCTS (P.P.P.) OR APPROVED EQUAL. INSTALL MINIMUM 12" A.F.F. FOR EVERY 20' OF PRIMER LINE. IF DISTRIBUTION UNIT DU-4 IS USED, UP TO FOUR FLOOR DRAINS MAY BE SERVED FROM ONE TRAP PRIMER VALVE. INSTALL IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL FOR SERVICE.

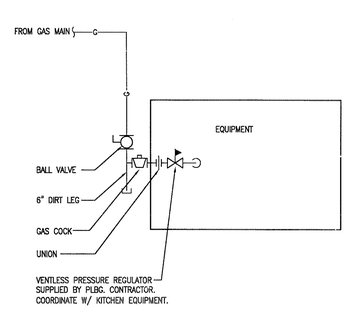
4 FLOOR DRAIN



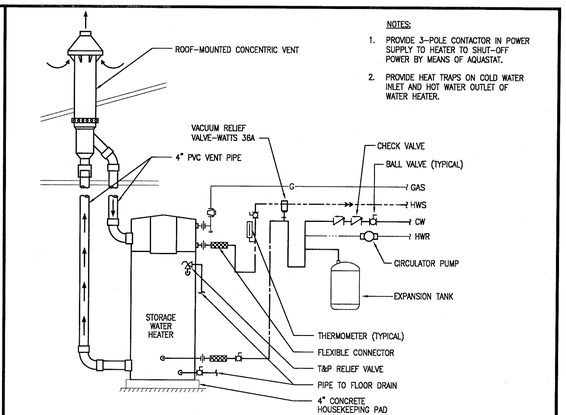
5 IN-LINE CIRCULATOR PUMP



6 TRAP PRIMER PIPING

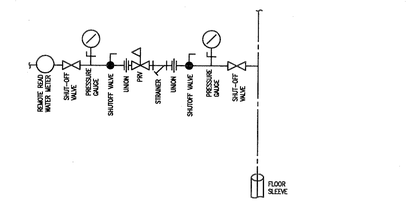


7 TRAP PRIMER DETAIL



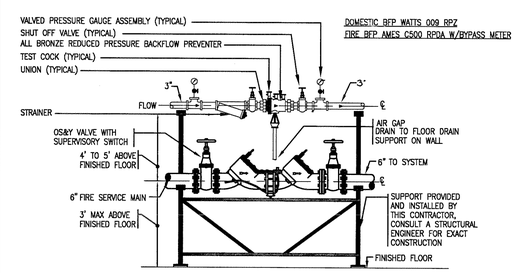
NOTES:
1. PROVIDE 3-POLE CONTACTOR IN POWER SUPPLY TO HEATER TO SHUT-OFF POWER BY MEANS OF AQUASTAT.
2. PROVIDE HEAT TRAPS ON COLD WATER INLET AND HOT WATER OUTLET OF WATER HEATER.

8 TYPICAL GAS CONNECTION



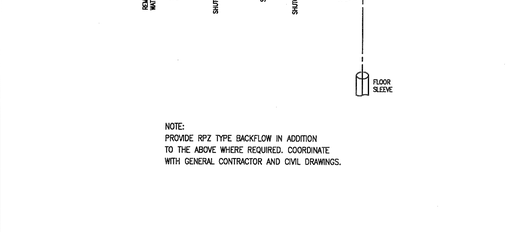
NOTE:
PROVIDE RPZ TYPE BACKFLOW IN ADDITION TO THE ABOVE WHERE REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND CIVIL DRAWINGS.

9 DIRECT VENTED GAS WATER HEATER



NOTES:
1. FURNISH TO OWNER ONE TEST KIT AND SPARE PARTS KIT.
2. THIS CONTRACTOR SHALL ACT AS THE OWNERS AGENT IN SEEKING APROVAL FROM ALL LOCAL AND STATE AUTORITIES. THIS CONTRACTOR SHALL SUBMIT ALL PLANS, SPECS. AND APLICATIONS REQUIRED FOR APROVAL AND PAY ALL FEES.
3. SEE FLOOR PLANS FOR SIZES
4. MAINTAIN 1'-0" CLEARANCE FROM WALL.
5. TEST AND CERTIFY EACH INSTALLATION.

10 DOMESTIC WATER ENTRY SERVICE



NOTES:
1. FURNISH TO OWNER ONE TEST KIT AND SPARE PARTS KIT.
2. THIS CONTRACTOR SHALL ACT AS THE OWNERS AGENT IN SEEKING APROVAL FROM ALL LOCAL AND STATE AUTORITIES. THIS CONTRACTOR SHALL SUBMIT ALL PLANS, SPECS. AND APLICATIONS REQUIRED FOR APROVAL AND PAY ALL FEES.
3. SEE FLOOR PLANS FOR SIZES
4. MAINTAIN 1'-0" CLEARANCE FROM WALL.
5. TEST AND CERTIFY EACH INSTALLATION.

11 STACKED DOMESTIC & FIRE WATER BACKFLOW PREVENTERS

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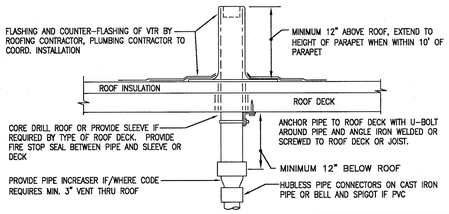
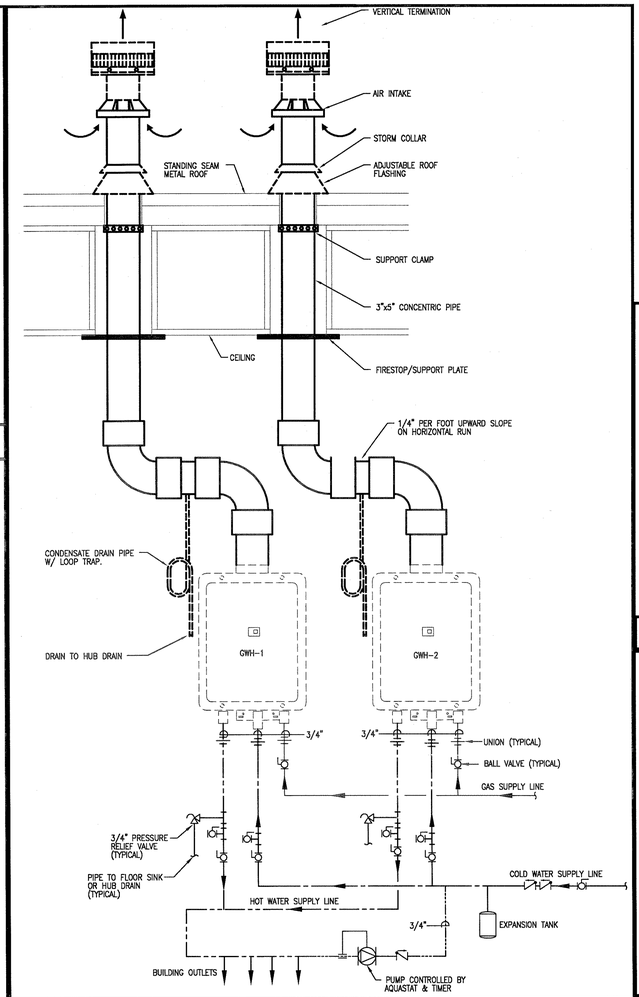


VTR NOTES:

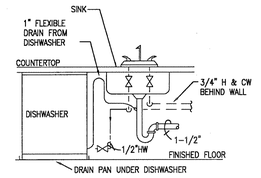
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

1 VENT THROUGH ROOF (VTR) DETAIL

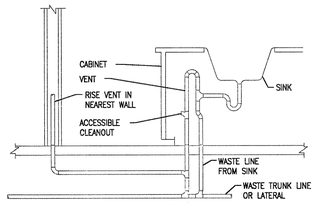
2 SPRINKLER RISER – WET PIPE SYSTEM



3 TANKLESS GAS WATER HEATER DETAIL



5 DISHWASHER PIPING DETAIL



4 ISLAND SINK PIPING DETAIL

TRINKA DAVIS VETERANS VILLAGE
CARROLLTON, GA 30117

GEORGIA REGISTERED No. 19986 PROFESSIONAL ENGINEER MARK MINICK

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STRUCTURAL NOTES:

GENERAL:

A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.

B. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS OTHERWISE NOTED.

C. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2006 EDITION WITH 2010 GEORGIA AMENDMENTS.

D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.

E. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.

F. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, BJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

G. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

H. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

I. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.

J. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC IN EXCESS OF 200#. 2

K. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

L. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.

M. UNLESS NOTED, ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS.

N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

O. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

P. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS AS REQUESTED BY THE BUILDING OFFICIAL.

Q. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.

R. TEST REPORTS AND SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED ELECTRONICALLY UNLESS PRIOR PERMISSION GRANTED BY ARCHITECT.

SHOP DRAWINGS:

A. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE PROJECT DOCUMENTS.

B. THE CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ENGINEER FOR REVIEW.

C. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.

D. SHOP DRAWINGS REQUIRING A SPECIAL ENGINEERING DESIGN BY THE FABRICATOR SHALL BE STAMPED BY A REGISTERED ENGINEER OF RECORD IN THE STATE IN WHICH CONSTRUCTION WILL OCCUR BEFORE SUBMITTING FOR REVIEW BY THE ARCHITECT/ENGINEER.

E. THE OWNER WILL NOT PAY FOR ADDITIONAL CHARGES DUE TO RE-DETAILING FEES ASSOCIATED WITH A THREE-DIMENSIONAL DETAILING PROGRAM. THE DETAILER SHALL ESTIMATE AND INCLUDE ANY COSTS IN THE BASE BID ASSOCIATED WITH RE-DETAILING FEES AS A RESULT OF CHANGES AND/OR REVISIONS MADE TO THE SHOP DRAWINGS DURING THE SHOP DRAWING REVIEW.

F. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO, PRECAST CONCRETE, CURTAIN WALL GLAZING SYSTEMS, LIGHT GAGE STEEL FRAMING, ORNAMENTAL GUARDRAILS, SKYLIGHTS, AND STAIRS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THIS BUILDING SHALL BE CONSTRUCTED AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

G. REPRODUCTION/DUPLICATION OF THE STRUCTURAL DRAWINGS FOR USE IN THE PRODUCTION OF SHOP DRAWINGS IS PROHIBITED, UNLESS NOTED OTHERWISE. IN THE EVENT THAT THE GENERAL CONTRACTOR OR SUBCONTRACTOR ELECTS TO PRODUCE SHOP DRAWINGS BY COPYING ELECTRONIC OR PAPER COPIES OF THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REQUEST FROM THE ENGINEER OF RECORD A SHOP DRAWING WAIVER ALONG WITH THE SPECIFIC SHEETS REQUIRED. SIGNATURE OF THE WAIVER BY THE CONTRACTOR OR SUBCONTRACTOR, ALONG WITH PAYMENT OF A FEE TO THE ENGINEER OF RECORD WILL BE REQUIRED. CONTRACTOR SHALL CONTINUE TO ASSUME RESPONSIBILITY FOR ERRORS, OMISSIONS AND COORDINATION REQUIRED FOR SHOP DRAWING PRODUCTION, REGARDLESS OF THE USE OF COPIES OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING PRODUCTION.

DESIGN LOADS:

A. DESIGN ROOF DEAD LOAD:
   1. 20 PSF FLAT ROOFS
   2. 27 PSF PITCHED ROOF W/ CONC. SHINGLES

B. DESIGN ROOF LIVE LOAD:
   1. 20 PSF
   2. REDUCTIONS APPLIED PER TRIBUTARY AREA AS PERMITTED BY CODE.

C. DESIGN FLOOR LIVE LOAD:
   1. 125 PSF SLAB-ON-GRADE
   2. 50 PSF MECHANICAL MEZZANINE

D. DESIGN SNOW LOAD:
   1. GROUND SNOW LOAD, P_g = 5 PSF

E. DESIGN WIND LOAD:
   1. BASIC WIND SPEED (3 SECOND GUST) 90 MPH
   2. WIND IMPORTANCE FACTOR, I_w = 1.0
   3. BUILDING CATEGORY/OCCUPANCY CATEGORY: II
   4. WIND EXPOSURE CATEGORY: C
   5. COMPONENTS AND CLADDING WIND PRESSURE: (SEE SCHEDULE ON S1.03)
   6. INTERNAL PRESSURE COEFFICIENT (G_{Cpi}): (+/-) 0.18

F. DESIGN SEISMIC INFORMATION:
   1. OCCUPANCY CATEGORY: II
   2. MAPPED SPECTRAL RESPONSE COEFFICIENT, S_s = 0.227
   3. MAPPED SPECTRAL RESPONSE COEFFICIENT, S_1 = 0.084
   4. SPECTRAL RESPONSE COEFFICIENT, S_{DS} = 0.242
   5. SPECTRAL RESPONSE COEFFICIENT, S_{D1} = 0.135
   6. SITE CLASS: D
   7. BASE SEISMIC-FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS
   8. DESIGN BASE SHEAR:
      CLC BUILDING - 100K
      CBCC BUILDING - 160K
   9. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (16.7.1.4)
   10. RESPONSE MODIFICATION FACTOR, R: 3
   11. SEISMIC DESIGN CATEGORY: C
   12. SEISMIC IMPORTANCE FACTOR, I_e = 1.0
   13. SEISMIC RESPONSE COEFFICIENT, C_s = 0.100

G. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

SHALLOW FOUNDATIONS:

A. DESIGN SOIL BEARING PRESSURE IS 2500 PSF.

B. THE SITE SHALL BE PREPARED UNIFORM IN ACCORDANCE WITH CIVIL DRAWINGS, SPECIFICATIONS AND THE REPORT OF SUBSURFACE INVESTIGATION BY CONTOUR ENVIRONMENTAL, LLC NO. GI09REG01 DATED FEBRUARY 3, 2010. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORT TO THE ARCHITECT/ENGINEER ANY VARIATIONS.

C. ALL EXCAVATIONS AND BUILDING PADS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS.

D. WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

E. FOOTING ELEVATIONS GIVEN ARE FOR THE PURPOSE OF DESIGN. SOIL BELOW FOOTING NOT MEETING DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH AT WHICH THE DESIGN PRESSURE AND BACKFILLED WITH #57 STONE TO A LEVEL OF FOUNDATION BEARING. THIS SHALL BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.

F. THE BOTTOM OF ALL FOUNDATION SHALL BE PLACED AT A MINIMUM OF 18" BELOW THE TOP OF THE FINISHED GRADE.

G. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.

H. TOP OF FOOTING ELEVATIONS PROVIDED ON DRAWINGS ARE FOR PURPOSES OF CONTRACT & SHALL BE ADJUSTED, AS REQUIRED, AT TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE (PER GEOTECH. REPORT RECOMMENDATIONS OR FIELD DIRECTIONS OF GEOTECHNICAL ENGINEER ON SITE) OR TO ADJUST FOOTING ELEVATIONS TO AVOID INFLUENCE BETWEEN FOUNDATIONS & BURIED PLUMBING. SEE TYPICAL FOOTING-TRENCH INFLUENCE DETAIL FOR SIMILAR REQUIREMENTS FOR INFLUENCE BETWEEN FOUNDATIONS & BURIED PLUMBING. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH ISOLATED FOOTINGS.

SLAB-ON-GRADE:

A. C.J. DENOTES CONCRETE SLAB "CONTROL JOINT" WHICH SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/4 TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE 20'-0" TO 30'-0" (MAX.) IN EACH DIRECTION. CONSTRUCTION OF CONTROL JOINTS SHALL BE LOCATED SUCH THAT THE AREA CONTAINED IS 400 SQUARE FEET MAX. WITH A MAXIMUM RATIO OF LONG TO SHORT SIDE OF 2 TO 1, OR AS SHOWN ON THE PLANS.

B. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR. SLAB CONSTRUCTION JOINTS SHALL BE KEYED.

C. PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1"-2" FROM T/SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE. WELDED WIRE REINFORCEMENT SHALL BE SUPPLIED IN FLAT SHEETS.

D. REFER TO ARCHITECTURAL/MECHANICAL FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.

E. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.

F. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE. COLUMN BOX-OUTS ARE NOT REQUIRED IF STEEL COLUMNS ARE PLUMB AND FULLY GROUTED PRIOR TO PLACEMENT OF SLAB.

CONCRETE:

A. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-05 AND ACI 301-05.

B. CEMENT SHALL BE TYPE I OR III CONFORMING TO ASTM C-150 AND CONCRETE SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS:
   1. INTERIOR SLAB-ON-GRADE 3000 PSI
   2. FOOTINGS 3000 PSI
   3. WALLS 3000 PSI

C. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF CONCRETE PLACED IN THE AMOUNT ACCORDING TO THE LESSER OF THE FOLLOWING:
   1. 75 CUBIC YARDS
   2. 24 HOUR PERIOD
   3. CHANGE IN CONCRETE STRENGTH

D. TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT/ENGINEER UNLESS NOTED OTHERWISE. NORMAL WEIGHT CONCRETE (145 PCF) SHALL BE USED WITH 3/4" MAX. (ELEVATED) OR 1" MAX. (SLAB-ON-GRADE) COARSE AGGREGATE CONFORMING TO ASTM C 33.

E. CONCRETE SLUMP SHALL BE 3" - 5" (MAX.) FOR REGULAR MIX WITH SUPERPLASTICIZER ADMIXTURES INCREASING SLUMP TO 8" (MAX.). ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND/OR TO BE WATERTIGHT SHALL BE AIR-ENTRAINED. ALL INTERIOR SLABS SUBJECT TO ABRASION SHALL BE AIR-ENTRAINED. CONCRETE AIR-ENTRAINMENT SHALL BE 3% TO 6% FOR EXTERIOR SLABS AND 0% TO 3% FOR INTERIOR SLABS.

F. UNLESS NOTED OTHERWISE, CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
   1. CONCRETE CAST AGAINST EARTH - 3"
   2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER - 2"
   3. CONVENTIONAL REINF. INTERIOR SLAB - 1"

G. WHERE NEW CONCRETE IS TO BE POURED ONTO EXISTING CONCRETE, ROUGHEN AND CLEAN SURFACE OF THE ADJOINING AREA AND COAT WITH SIKADUR 32 HI-MOD OR AN APPROVED BONDING AGENT.

H. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

I. THE RESULTS OF ALL CONCRETE COMPRESSIVE TESTS SHALL BE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.

J. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN CONCRETE MUST BE FOLLOWED (SEE MECHANICAL/ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC.). THIS CRITERIA WILL BE STRICTLY ENFORCED.
   1. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER.
   2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
   3. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB, WALL, OR BEAM SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION.
   4. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED.
   5. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. CONCRETE COVER FOR PIPES, CONDUITS AND FITTINGS SHALL NOT BE LESS THAN 1 1/2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER, NOR 3/4" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND.
   6. CONDUITS AND PIPES SHALL BE PLACED BETWEEN TOP AND BOTTOM SLAB REINFORCEMENT. PIPES AND CONDUITS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS NOTED OTHERWISE.
   7. CONDUITS AND PIPES SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
   8. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF CROSS SECTION ON WHICH THEY ARE EMBEDDED AS REQUIRED BY FIRE PROTECTION.
   9. PIPES AND FITTINGS SHALL BE DESIGNED TO RESIST EFFECTS OF MATERIAL, PRESSURE AND TEMPERATURE TO WHICH THEY WILL BE SUBJECTED.
   10. REINFORCEMENT WITH AN AREA NOT LESS THAN 0.002 TIMES THE AREA OF CONCRETE SECTION SHALL BE PROVIDED NORMAL TO PIPING. THIS REINFORCEMENT SHALL BE IN ADDITION TO REINFORCEMENT NOTED ON DRAWINGS.
   11. REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS FOR CONDUITS AND PIPES EMBEDDED IN CONCRETE.

K. SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, RUSTICATIONS, INSERTS, ANCHORS AND OTHER EMBEDDED ITEMS NOT NOTED ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & PLACING ALL EMBEDDED ITEMS SHOWN ON DRAWINGS & ADDITIONAL ITEMS NOTED IN THIS NOTE, AS REQUIRED BY OTHER TRADES. UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO OPENINGS LARGER THAN 12"x12" SHALL BE PLACED ON SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ENGINEER/ARCHITECT PRIOR TO FABRICATION OF STEEL AND PLACEMENT OF CONCRETE.

L. FLY ASH, MEETING ASTM C-618 CLASS C OR CLASS F, MAY BE USED TO REPLACE UP TO 25% OF PORTLAND CEMENT. CONTRACTOR AND SUPPLIER SHALL COORDINATE TO ENSURE THAT REQUIRED SET TIMES FOR CONCRETE ARE NOT ADVERSELY AFFECTED BY USE OF FLY ASH. CONTRACTOR AND ALL CONCRETE SUBCONTRACTORS SHALL HAVE EXPERIENCE WITH HANDLING, PLACING AND FINISHING CONCRETE WITH FLY ASH.

M. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

N. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.

O. DEFECTIVE AREA IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE STRUCTURAL ENGINEER.

SPECIAL INSPECTIONS:

A. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704 OF THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 109 OF THE BUILDING CODE.

B. SEE SECTION 1704, SPECIAL INSPECTIONS, OF THE BUILDING CODE FOR FULL CRITERIA AND EXCEPTIONS FOR INSPECTION REQUIREMENTS.

C. SEE INSPECTION TABLES ON THE SCHEDULES SHEET FOR REQUIRED MATERIALS INSPECTIONS.

STRUCTURAL STEEL:

A. CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION, AISC 360-05.

B. MATERIALS:
   1. ASTM A 992, FY=50 KSI FOR WIDE FLANGE SHAPES.
   2. ASTM A 36, FY=36 KSI FOR ALL OTHER MISC. SHAPES, U.N.O.
   3. ASTM A 500, GRADE B, FY=46 KSI FOR STRUCTURAL RECTANGULAR/SQUARE TUBES
   4. ASTM A 500, GRADE B, FY=42 KSI FOR STRUCTURAL ROUND TUBES
   5. ASTM A 53, GRADE B, FY=35 KSI FOR PIPES.
   6. ASTM A 325, TYPE 1, FOR HIGH STRENGTH BOLTS.
   7. ASTM A 563, HEX NUTS - GRADE C FOR A325 BOLTS, GRADE DH FOR A490
   8. BOLTS, GRADE DH FOR GALVANIZED BOLTS.
   9. ASTM F 436, HARDENED STEEL WASHERS - TYPE 1.
   10. ASTM F 1554, FY=36 KSI FOR ANCHOR RODS.

C. THE DESIGN OF CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT INDICATED ON THE DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR AS FOLLOWS:
   1. STANDARD CONNECTIONS SHALL BE USED WHERE POSSIBLE.
   2. ALL SHOP CONNECTIONS SHALL BE WELDED OR HIGH-STRENGTH BOLTED. FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED WHERE POSSIBLE.
   3. UNLESS NOTED OTHERWISE, BOLTS SHALL BE 3/4" DIAMETER ASTM A-325 TYPE N BEARING CONNECTIONS. BOLTS SHALL BE "SNUG-TIGHT".
   4. DESIGN OF SPECIAL CONNECTIONS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH CONSTRUCTION IS TO OCCUR AND SHALL INCLUDE (BUT IS NOT LIMITED TO) BRACE END CONNECTIONS, MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS AND MEMBER SPLICE CONNECTIONS.

D. MEMBERS SUPPORTING DECK AT THE PERIMETER OF THE BUILDING SHALL BE CONTINUOUS EXCEPT AT EXPANSION JOINT. SQUARE GROOVE WELD (BUTT JOINT) CONTINUOUS MEMBERS PLACED END TO END.

E. ALL STRUCTURAL STEEL NOT RECEIVING FIRE-PROOFING SHALL RECEIVE ONE SHOP COAT OF RUST-INHIBITIVE PRIMER. ALL STEEL WITH EXTERIOR EXPOSURE SHALL BE PAINTED WITH A DOUBLE COAT OF RUST PROHIBITIVE EPOXY PRIMER (MATERIAL AND THICKNESS TO BE SPECIFIED BY ARCHITECT).

F. STEEL COLUMNS AND BASE PLATES SHALL HAVE MINIMUM 3" CONCRETE COVER PROTECTION.

G. ALL BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A-325 OR ASTM A-490 BOLTS".

H. ALL STEEL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

I. GUSSET PLATES AND STIFFENER PLATES SHALL BE 3/8" MIN. UNLESS NOTED OTHERWISE.

J. SPLICING OF STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD WITH REGARDS TO LOCATION & SPLICE TYPE AND LOADINGS ON SPLICE.

K. PUNCH STRUCTURAL STEEL FOR WOOD BLOCKING AND NAILERS IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL DETAILS.

L. CONNECTIONS SHALL BE DESIGNED AS BEARING-TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. ALL BOLTS NOTED AS SLIP-CRITICAL SHALL BE TIGHTENED TO THE MINIMUM PRETENSION VALUE SHOWN IN TABLE J3.1 OF THE AISC STEEL MANUAL USING COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATOR DEVICES CONFORMING TO ASTM F959.

M. DETAILING, FABRICATION AND ERECTION SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS, INCLUDING THE FABRICATION OF ADDITIONAL PLATES, CONNECTORS, HOLES AND OTHER ELEMENTS NOT NOTED ON THE DRAWINGS.

N. UNLESS NOTED OTHERWISE, SLOTTED HOLES FOR BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ALIGNED ALONG A COLUMN LINE WITH A BRACED FRAME OR MOMENT FRAME ALIGNED ON THE COLUMN LINE.

WELDING:

A. ALL WELDING SHALL BE DONE WITH E70 ELECTRODES AND SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.1:2004 LATEST EDITION.

B. FIELD WELDING SHALL BE SHOWN ON ERECTION DRAWINGS.

C. REINFORCING STEEL WELDING SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL BY AMERICAN WELDING SOCIETY FOR COMPLIANCE WITH ACI 318-05, SECTION 3.5.2.

D. REFER TO ARCHITECTURAL DOCUMENTS FOR EXPOSED STEEL AND JOINT LOCATIONS AND REQUIREMENTS. ALL EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND SUBJECT TO ARCHITECT APPROVAL. FABRICATOR SHALL ALTER JOINT DETAILING AS REQUIRED TO ENSURE THAT EFFECTIVE THROAT SPECIFIED IN WELD DETAIL IS MAINTAINED AFTER GRINDING OF WELD SURFACE.

E. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE INSPECTOR.

F. ALL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE & PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

G. MINIMUM WELD SIZE SHALL BE 3/16" FILLET WELD UNLESS NOTED OTHERWISE.

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DATE	REVISION
02/21/11	ISSUED FOR BID
03/04/11	ADDENDUM #1
03/11/11	ADDENDUM #2

PROJECT NO.
229.0100

DATE:
SEPT 28TH, 2010

DRAWING TITLE:
GENERAL NOTES

S0.01

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REINFORCING STEEL:

A. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-05 (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUAL OF STANDARD PRACTICE), LATEST EDITIONS.

B. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (UNLESS NOTED OTHERWISE).

C. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVEATIONS AND DETAILS IS NOT ACCEPTABLE.

D. ALL WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, GRADE 60, AND BE USED ONLY WITH PRIOR PERMISSION FROM THE STRUCTURAL ENGINEER.

E. ALL TENSION SPLICES, INCLUDING SPLICES FROM BARS LABELED CONTINUOUS, SHALL CONFORM TO ACI 318-05. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

F. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A-185 AND BE LAPPED TWO FULL PANELS, TIED ON EACH SIDE AND SHALL BE SUPPLIED IN FLAT SHEETS.

G. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.

H. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED @ SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).

I. PROVIDE CORNER BARS AT ALL CONTINUOUS REINFORCING BARS AT ALL MEMBERS (FOUNDATIONS, WALLS, SLABS, BEAMS AND OTHER MEMBERS).

J. PROVIDE DOWELS FROM FOUNDATIONS, THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

K. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.

L. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS.

CONCRETE MASONRY:

A. ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530-05/ASCE 5-05/ TMS 402-05 AND ACI 530.1-05 ASCE 6-05/TMS 602-05.

B. CONCRETE MASONRY UNITS SHALL BE NORMAL OR LIGHT WEIGHT AND CONFORM TO ASTM C-90. LAY IN RUNNING BOND UNLESS NOTED OTHERWISE. FM SHALL BE 1500 PSI (MIN. CMU COMPRESSIVE STRENGTH = 1500 PSI). COMPLETE TEST REPORTS THAT DOCUMENT MINIMUM COMPRESSIVE STRENGTH SHALL BE SUBMITTED TO THE BUILDING INSPECTOR.

C. JOINT REINFORCING - TRUSS TYPE, 9 GAUGE SPACED VERTICALLY AT 16" UNLESS NOTED OTHERWISE AND CONFORM TO ASTM A-82. LAPS SHALL BE 6" MINIMUM.

D. VERTICAL REINFORCING IN CONCRETE MASONRY (AS REQUIRED) SHALL BE DOWELED INTO THE FOUNDATION AND EXTEND INTO THE BOND BEAM AT THE FLOOR OR ROOF. PROVIDE MIN. 4" X 4" OPENING AT U BLOCK FOR VERTICAL BAR.

E. PROVIDE REINFORCING IN CONCRETE MASONRY GROUTED CELLS AT EACH SIDE OF OPENING, EQUAL TO THE REINFORCING DISPLACED. MINIMUM REINFORCING SHALL BE (1) TYPICAL REINFORCEMENT BAR AT EACH SIDE UNLESS REINFORCED CONCRETE JAMB IS CALLED OUT.

F. PROVIDE JOINT REINFORCING AT 8" AT MASONRY BELOW GRADE, 2 ROWS AT 8" AT TOP AND BOTTOM OF OPENINGS, (EXTEND 24" EACH SIDE) AND 2 ROWS AT 8" AT BOND BEAMS. UNLESS NOTED OTHERWISE, WHERE MULTIPLE WYTHES OF CONCRETE MASONRY ARE CONSTRUCTED AND/OR WHERE ADDITIONAL WYTHES OF CONCRETE MASONRY ARE ADDED TO EXISTING WYTHES, EACH ADJACENT WYTHE SHALL BE TIED TO THE NEXT WYTHE WITH TYPICAL JOINT REINFORCING (NEW CONSTRUCTION FOR BOTH WYTHES) OR POST-INSTALLED TIES APPROVED BY ARCHITECT/ENGINEER (ADDITION TO EXISTING CONSTRUCTION) WITH SPACING/LOCATIONS MATCHING THE SPACING/LOCATIONS FOR TYPICAL JOINT REINFORCING DESCRIBED IN THE GENERAL NOTES.

G. CONCRETE MASONRY UNITS SHALL BE CUT BELOW CONCRETE BEAMS OR BOND BEAMS AS REQUIRED IN ORDER TO GET CONTINUOUS BEAM OR BOND BEAMS AT THE PROPER ELEVATION.

H. ALL CELLS BELOW GRADE AND SLAB ON GRADE SHALL BE GROUTED.

I. HORIZONTAL BEAMS, BOND BEAMS AND REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.

J. 16" DEEP BOND BEAMS MAY BE CONSTRUCTED OF 8" U BLOCK BELOW AND 8" STANDARD BLOCK ABOVE WITH BREAK AWAY TOP PART OF WEB.

K. SEE ARCHITECTURAL DRAWINGS FOR LAYING MASONRY AND LOCATION OF OPENINGS.

L. FACE SHELLS OF BED JOINTS SHALL BE FULLY MORTARED. WEBS SHALL BE FULLY MORTARED IN ALL COURSES OF PILASTERS, PIERS, COLUMNS, IN THE STARTING COURSE ON FOUNDATIONS WHERE ADJACENT CELLS/CAVITIES ARE TO BE GROUTED, 4 WHERE OTHERWISE NOTED.

GROUT AND MORTAR:

A. GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK SIKAGROUT 212 (OR APPROVED EQUAL) W/MIN. 6,000 PSI COMPRESSIVE STRENGTH. MIXING AND PLACEMENT SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

B. MASONRY GROUT SHALL CONFORM TO ASTM C-476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28-DAYS. MAXIMUM AGGREGATE SIZE SHALL BE 1/4", AND SLUMP SHALL BE 8"-10". (3) TEST SAMPLES SHALL BE TAKEN PER ASTM C 1019. EACH DAY FOR THE FIRST THREE DAYS OF MASONRY CONSTRUCTION WITH AN ADDITIONAL (3) SAMPLES TAKEN FOR EVERY 30 CU. YARDS PLACED, ONCE PER WEEK, OR EVERY 5000 SF OF WALL CONSTRUCTED (WHICHEVER IS MOST STRINGENT). COMPRESSION TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT/ENGINEER.

C. MASONRY MORTAR SHALL BE TYPE "S" AND CONFORM TO ASTM C-270.

D. ANCHORING CEMENT FOR RAILINGS: MIX PREPARED ANCHORING CEMENT PRODUCT WITH WATER AS DIRECTED BY MANUFACTURER'S PRODUCT DATE FOR IMMEDIATE USE.

E. UNLESS NOTED OTHERWISE, COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD WITH ONE VERIFICATION OF F'M AT THE START OF MASONRY CONSTRUCTION.

INSULATED CONCRETE FORMS WALL SYSTEM:

A. ALL HANDLING AND ERECTION OF WALL SYSTEM SHALL BE IN ACCORDANCE WITH ACI 318, CHAPTER 16 AND PER MFG'R SPECIFICATIONS.

B. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING INTERIOR ELEVATIONS OF THE WALLS, ALL OPENINGS, REINFORCING. THE DRAWINGS SHALL BEAR A SEAL OF A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.

COLD-FORMED METAL FRAMING (METAL STUDS AND JOISTS):

A. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO 2001 AISI "NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. ALL METAL STUDS SHALL BE GALVANIZED.

B. MINIMUM YIELD STRENGTH (FY) FOR MATERIAL IS 33,000 PSI FOR 33 MILS AND 43 MILS MATERIALS, AND 50,000 PSI FOR 54 MILS, 68 MILS AND 97 MILS MATERIALS.

C. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" UNLESS NOTED OTHERWISE.

D. ALL PRODUCTS TO BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL MANUFACTURERS' ASSOCIATION.

E. ALL MATERIAL AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING, MEETING ASTM A-653.

F. SELF-DRILLING TAPPING SCREW FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C1513 OR AN APPROVED DESIGN OR RECOGNIZED DESIGN STANDARD. ALL SCREWS SHALL BE NON-CORROSIVE NO. 12-14 STANDARD SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE ON DRAWINGS (DO NOT USE STAINLESS

T-TENSION CONCRETE STRUCTURE).

H. ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. MIN. EDGE DISTANCE FOR SCREWS SHALL BE 1".

I. UNLESS NOTED OTHERWISE, TRACKS SHALL BE SAME DEPTH AS STUDS OR JOISTS AND EQUAL OR THICKER GAUGE THAN STUDS OR JOISTS. TRACKS SHALL BE CONNECTED TO SUPPORTS WITH TWO SCREWS OR PINS AT 16" MAX. STUDS OR JOISTS SHALL BE CONNECTED TO TRACKS AT EACH SIDE.

J. ALL WALLS SHALL HAVE WALL BRIDGING @ 4'-0" O.C. MAX. IF FULL-HEIGHT SHEATHING IS NOT INSTALLED ON BOTH SIDES OF STUDS.

K. CONTINUOUS BRIDGING MAY CONSIST OF 1 1/2"-33 MILS. STRAPS, SCREW ATTACHED TO BOTH FLANGES OF EACH STUD WITH SOLID BLOCKING REQUIRED AT 0'-0" O.C. MAX. EACH END OF WALL AND ADJACENT TO EACH OPENING. (FASTEN STRAPS W/ (1) #8 SCREW MIN. TO EA. STUD & (2) #8 SCREW MIN. TO EA. BLOCKING). BLOCKING MAY BE MADE FROM 33 MILS STUD MATERIAL ATTACHED WITH 54 MIL CLIP ANGLE WITH 2 SCREWS PER ANGLE FLANGE.

L. ALL BRIDGING MUST BE CONTINUOUS FOR FULL LENGTH OF WALL OR PROPERLY SPLICED WITH AN APPROVED SPLICE ELEMENT.

M. THE QUANTITY OF STUDS AND JOISTS DISPLACED OR CUT FOR OPENING SHALL BE PLACED HALF ON EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE, (2) STUDS MIN. EACH SIDE OF OPENING.

N. FOR ALL FULL HEIGHT STUD WALLS (WALLS WITH BASE SUPPORT AT FOUNDATION OR FLOOR STRUCTURE), PROVIDE CLIP SUPPORT WITH VERTICAL SLIP CAPACITY OR SLIP TRACK AT TOP TRACK CONNECTION TO ALLOW FOR 3/4" LIVE LOAD DEFLECTION OF STRUCTURE ABOVE THE STUD WALLS.

O. ALL WELDING TO BE PERFORMED BY A QUALIFIED WIRE FEED WELDER PER ASTM A-568. FIELD WELDING SHALL BE DONE WITH E60 ELECTRODES. WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.3, LATEST EDITION.

P. APPLY ZINC COATING TO ALL WELDS.

Q. CONTRACTOR SHALL FURNISH COMPLETE FABRICATION AND ERECTION DRAWINGS FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF FABRICATION. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING. INDICATE SUPPLEMENTAL TRIMMING, BRACES, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION.

R. MULTIPLE STUD COLUMNS (INCLUDING JACK/FULL HT. STUD ASSEMBLIES EA. SIDE OF OPENINGS) SHALL BE WELDED TOGETHER AT BOTH FLANGES WITH 2" TOP AND BOTTOM AND 1" AT 24" O.C. BETWEEN. IF SCREWED CONNECTIONS REQUIRED TO FASTEN STUDS, PROVIDE (2) ROWS OF SCREWS AT SPACINGS NOTED FOR WELDS, FASTENED AT WEBS (NOTE: ADDITIONAL TRACK MEMBERS, SAME DEPTH AND GAGE AS STUD MEMBERS (MIN.), MAY BE REQUIRED. TO BUILD BOX MEMBERS TO PROVIDE WEB SCREW CONNECTIONS NOTED. FASTEN FLANGES OF TRACKS TO FLANGES OF STUDS WITH SCREWS EA. FLANGE AT SAME SPACING NOTED ABOVE).

S. MEMBER SIZE, GAGE AND SPACING OF EXTERIOR WALL STUDS AND ALL MEMBER CONNECTIONS SHALL BE DESIGNED BY STUD MANUFACTURER. SUBMIT CALCULATIONS FOR MEMBERS AND CONNECTIONS WITH SHOP DRAWINGS (SIGNED AND STAMPED BY LICENSED STRUCTURAL ENGINEER IN THE STATE IN WHICH THE PROJECT WILL BE CONSTRUCTED) TO ENGINEER OF RECORD FOR REVIEW. DESIGN OF STUDS SHALL CONFORM TO LOAD CRITERIA NOTED ON DRAWINGS WITH MAXIMUM STUD DEFLECTION OF L/240 OF STUD LENGTH (L/360 FOR SIMULATED STONE WALLS OR STUCCO FINISHES, L/600 FOR BRICK OR STONE VENEER WALLS). SHOP DRAWINGS SHALL SHOW WALL SECTIONS COORDINATED WITH DRAWINGS SHOWING FRAMING, ACCESSORIES, ANCHORAGE AND CONNECTION DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITHE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE COLD-FORMED STEEL STRUCTURAL MEMBERS AND THEIR CONNECTIONS.

OPEN-WEB STEEL JOISTS:

A. ALL JOISTS SHALL BE FABRICATED WITH STANDARD CAMBER AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE, LATEST REVISION.

B. K-SERIES STEEL JOISTS SHALL BE CONNECTED TO STEEL BY 1/8" WELD, 1-1/2" EACH SIDE OR (2) 1/2" DIAMETER BOLTS. LONG SPAN STEEL JOISTS SHALL BE CONNECTED TO STEEL BY 1/4" WELD, 2" LONG EACH SIDE OR (2) 3/4" DIAMETER BOLTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING JOIST ANCHORAGE THAT MEETS ALL CURRENT OSHA REQUIREMENTS.

C. EXTEND LOWER JOIST CHORD AT ALL COLUMNS PER CURRENT OSHA REQUIREMENTS.

D. HORIZONTAL BRIDGING SHALL BE AN ANGLE AT TOP AND BOTTOM, DESIGNED FOR L/r=300 OR LESS (U.N.O.).

E. CROSS-BRIDGING SHALL BE AN ANGLE DESIGNED FOR L/r=200 OR LESS UNLESS NOTED.

F. UNLESS NOTED OTHERWISE, JOIST SPACES ADJACENT TO END JOISTS SHALL HAVE CROSS-BRIDGING.

G. BOTTOM CHORD OF ROOF JOIST SHALL BE DESIGNED FOR NET UPLIFT PER 1.80.2.

H. UNLESS NOTED K-SERIES STEEL JOIST SHALL HAVE 2 1/2" DEEP BEARING, LH-SERIES 5" DEEP BEARING. WHERE STEEL JOIST OR GIRDER SLOPE EXCEEDS 1/4" PER FT., PROVIDE SLOPED BEARING.

I. ALL JOIST SHALL RECEIVE A COAT OF RUST-INHIBITIVE PRIMER.

J. ALL JOISTS SHALL BE DESIGNED AND DETAILED FOR 20 PSF DEAD LOAD AND 20 PSF LIVE LOAD PLUS 300# CONCENTRATED LOAD FROM WALK-ON CEILING.

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LIGHT GAUGE TRUSSES:

A. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. ALL METAL STUDS SHALL BE GALVANIZED. TRUSS CONNECTOR PLATES SHALL BE DESIGNED AND INSTALLED ACCORDING TO TRUSS PLATE INSTITUTE STANDARDS.

B. LIGHT-GAUGE TRUSSES SHALL BE FULLY ENGINEERED AND FABRICATED BY THE MANUFACTURER AND SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE CONSTRUCTION IS TO OCCUR. SHOP DRAWINGS SHALL BE SUBMITTED AND SHALL INCLUDE TRUSS SPACING (48" MAX.), SIZE OF MEMBERS, CONNECTIONS, AND BRACING. DESIGN SHALL CONSIDER LL, DL, AND ALL SPECIAL LOADS FROM MECHANICAL AND PLUMBING. CALCULATIONS SHALL ALSO BE SUBMITTED AND SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE CONSTRUCTION IS TO OCCUR.

C. LIGHT GAUGE ROOF TRUSS LOADING (PITCHED ROOS W/ CONC. SHINGLES.):
- TOP CHORD: LL = 20 PSF, DL = 17 PSF
- BOTTOM CHORD: DL = 10 PSF
TOTAL LOAD: 47 PSF

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SEE MECHANICAL DRAWINGS AND ROOF PLAN FOR EQUIPMENT WEIGHTS, LOCATIONS AND ACCESS PATHS IN ROOF TRUSSES. ACTUAL TRUSS SPACING TO BE USED TO DETERMINE UNIFORM LOADS/FOOT.

D. SPECIAL LOADS FROM MECHANICAL/PLUMBING OR OTHER EQUIPMENT SHALL BE COORDINATED BY THE METAL STUD TRUSS DESIGNER. METAL STUD TRUSSES SUPPORTING THESE SPECIAL LOADS SHALL BE DESIGNED FOR THESE LOADS IN ADDITION TO THE TYPICAL UNIFORM LOADS.

E. CONCENTRATED LOADS SHALL BE SUPPORTED AT PANEL POINTS ONLY. ANY LOADS SUSPENDED FROM TRUSSES MUST BE APPLIED TO EACH TRUSS UNIFORMLY, SPACING OF HANGERS NOT TO EXCEED 2'-0" O.C. (OR TRUSS SPACING) IN ANY DIRECTION.

F. MAXIMUM DEFLECTION OF METAL STUD TRUSSES SHALL BE L/240 FOR DL+LL AND L/360 FOR LL.

G. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY NAILED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL BRACING SHALL BE DESIGNED BY MANUFACTURER AND INDICATED ON SHOP DRAWINGS. CONTRACTOR SHALL COORDINATE WITH TRUSS FABRICATOR TO ENSURE THAT ALL BRACING IS PROVIDED INCLUDING BOTTOM CHORD BRACING BY WAY OF CEILING SHEATHING OR SPECIFIC BRACES AT PREDETERMINED LOCATIONS (AT DROPPED SUSPENDED CEILINGS). ALL PREFABRICATED TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH PUBLISHED STANDARDS/SPECIFICATIONS FOR BRACING LIGHT GA. TRUSSES. COMPONENT-TO- COMPONENT CONNECTIONS SHALL BE SPECIFIED ON PRE-ENGINEERED TRUSS DESIGN SUBMITTAL.

H. GENERAL CONTRACTOR SHALL NOT CUT, DRILL, OR ALTER ANY TRUSS MEMBER.

I. ALL TRUSS SHOP DRAWINGS INCLUDING LATERAL BRACING DETAILS SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.

J. TRUSS DESIGNER SHALL INDICATE THAT ALL HIPS, VALLEYS, AND RIDGES SHALL HAVE A 14 GAUGE 6X8 BENT PLATE LEGS TO BE 8" AND CONNECTED TO TRUSS MEMBERS WITH A MINIMUM OF TWO NO. 12-14 TEK SCREWS PER CONNECTION.

K. ALL HARDWARE REQUIRED FOR CONNECTIONS BETWEEN TRUSSES AS WELL AS CONNECTIONS BETWEEN TRUSSES AND MAIN STRUCTURE SHALL BE DESIGNED BY THE TRUSS SPECIALTY STRUCTURAL ENGINEER AND SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

L. COLD-FORMED STEEL STRUCTURAL MEMBERS MAY BE ATTACHED BY EITHER WELDS OR SCREWS SIZED BY THE MANUFACTURER FOR THE SPECIFIED DESIGN LOADS. SEE THE SPECIFICATIONS. WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION.

M. PROVIDE 20 GA. MIN. MEMBER THICKNESS FOR ALL TRUSS MEMBERS (16 GA. MIN. FOR MEMBERS BEING WELDED TO STRUCTURE).

STEEL ROOF DECK:

A. CONFORM TO STEEL DECK INSTITUTE DESIGN MANUAL, LATEST EDITION.

B. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE WIDE-RIB GALVANIZED. MINIMUM YIELD STRENGTH SHALL BE 33,000 PSI.

C. ROOF DECK SHALL BE ATTACHED AS FOLLOWS:
1. AT SUPPORTS: 5/8" DIAMETER WELDS (@ STEEL)
#12 TEKS, (@ COLD FORMED METAL FRAMING)
2. AT SIDE LAPS: #10 TEKS.

D. SPACING OF CONNECTIONS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
1. INTERIOR SUPPORTS: 12" O.C. MAX. (36/4 PATTERN - SIDE LAPS MUST BE ATTACHED AT EACH SUPPORT).
2. SIDE LAPS: 2 PER SPAN.
3. AT PERIMETER/EDGES OF BUILDING: 6" O.C.

E. DECK SHALL BE PLACED AT THE PERIMETER WITH A COMPLETE RIB BEARING ON THE STEEL SUPPORT. DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION).

F. MINIMUM FINAL ROOF SLOPE SHALL BE 1/4" PER 1 FT. WHERE SLOPE IS NOT ACHIEVED BY STEEL STRUCTURE, CREATE IT WITH INSULATION ABOVE THE DECK (SEE ARCHITECTURAL DRAWINGS).

G. ALL INTERIOR EXPOSED ROOF DECK SHALL BE FACTORY PRIMED FOR PAINT. SEE ARCHITECTURAL FOR EXTENTS.

H. ALL TESTING SHALL BE PAID FOR BY OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

STEEL FORM DECK:

A. CONFORM TO STEEL DECK INSTITUTE DESIGN MANUAL, LATEST EDITION.

B. UNLESS NOTED OTHERWISE, STEEL FORM DECK SHALL BE GALVANIZED WITH A G60 HOT DIPPED COATING. MIN. YIELD STRENGTH SHALL BE 60,000 PSI.

C. DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION).

D. STEEL FORM DECK SHALL BE ATTACHED TO THE SUPPORTS WITH 5/8" DIAMETER WELDS THROUGH MIN. 16 GAUGE WELDING WASHERS IN 36/4 WELD PATTERN. SIDELAPS, WHERE NOTED AS REQUIRED, SHALL BE CONNECTED WITH #10 TEK SCREWS.

E. FASTEN DECK AT PERIMETER/EDGES OF BUILDING AT 10" O.C.

F. ALL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

G. PROVIDE STRIP CLOSURES AT FLOOR DECK EDGES AND OPENINGS AS REQUIRED TO EXTEND DECK TO EDGE MEMBER AND CONTAIN CONCRETE EDGE. ENSURE THAT CLOSURES ARE FASTENED TO SUPPORTS AND AT SIDE LAPS PER NOTES FOR DECK AND THAT CLOSURES ARE OF SUFFICIENT STRENGTH AND RIGIDITY TO SUPPORT CONCRETE.

H. FOR FORM DECK WITH SPANS 3'-6" OR GREATER, PROVIDE (2)-SIDELAP CONNECTIONS PER SPAN.

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DATE	REVISION
01/21/11	ISSUED FOR BID
03/04/11	ADDENDUM #1
03/11/11	ADDENDUM #2

PROJECT NO.
229.01.00

DATE
SEPT 28TH, 2010

DRAWING TITLE
GENERAL NOTES

S0.02

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ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE	LLH	LONG LEG HORIZONTAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	LW	LONG WAY
		LO	LOU
AFF.	ABOVE FINISHED FLOOR	LRFD	LOAD RESISTANCE FACTORED DESIGN
ALT.	ALTERNATE	MANUF.	MANUFACTURER
AR.	ANCHOR ROD	MAX.	MAXIMUM
ARCH.	ARCHITECT	MEZZ.	MEZZANINE
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	MIN.	MINIMUM
		MISC.	MISCELLANEOUS
AWS	AMERICAN WELDING SOCIETY	MTL.	METAL
ASD	ALLOWABLE STRESS DESIGN	N.I.C.	NOT IN CONTRACT
BV	BOTTOM OF	N.S.	NEAR SIDE
BLDG.	BUILDING	NTS.	NOTES
BM.	BEAM	N.T.S.	NOT TO SCALE
BOT.	BOTTOM	O.C.	ON CENTER
BRG.	BEARING	OD	OUTSIDE DIAMETER
BTWN.	BETWEEN	O.H.	OPPOSITE HAND
C-C	CENTER-CENTER	OPNG.	OPENING
C.J.	CONTROL/CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENERS
CL	CENTERLINE	P.J.F	JOINT FILLER
CLR.	CLEAR	PL. or ℄	PLATE
CMU	CONCRETE MASONRY UNIT	PLF or lb/ft	POUNDS PER LINEAL FOOT
COL.	COLUMN	PSI or P.S.I.	POUNDS PER SQUARE INCH
CONC.	CONCRETE	PSF or P.S.F.	POUNDS PER SQUARE FOOT
CONN.	CONNECT	PT or P.T.	POST TENSIONED or PRESSURE TREATED
CONT.	CONTINUOUS		
CTR.	CENTER	PT.	POINT
D	DEEP	RAD.	RADIUS
DIE	DRILLED & EPOXIED		
DBA	DEFORMED BAR ANCHOR	RD.	ROOF DRAIN
DBL.	DOUBLE	REF.	REFERENCE
DIA.	DIAMETER	REINF.	REINFORCING
DN.	DOWN	REQD.	REQUIRED
EA.	EACH	REV.	REVISION
EF.	EACH FACE	RTU	ROOF TOP UNIT
EJ	EXPANSION JOINT	SC	SHEAR CONNECTOR
ELEV.	ELEVATION	SCHED.	SCHEDULE
E.O.S.	EDGE OF SLAB	SF	SQUARE FOOT
EW.	EACH WAY	SIM.	SIMILAR
EXIST.S or EXIST.	EXISTING	SLH	SHORT LEG HORIZONTAL
		SLV	SHORT LEG VERTICAL
EXTER. or EXT.	EXTERIOR	SPA.	SPACES
F.D.	FLOOR DRAIN	SS	STAINLESS STEEL
FIN. FLR.	FINISH FLOOR	STD.	STANDARD
FLR.	FLOOR	STIFF.	STIFFENER
FND.	FOUNDATION	STL.	STEEL
F.S.	FAR SIDE	SW	SHORT WAY
FTG.	FOOTING	SYM.	SYMETRICAL
F.V.	FIELD VERIFY	T	TOP OF
GEN.	GENERAL	TEMP.	TEMPORARY
GALV.	GALVANIZED	T&B	TOP & BOTTOM
GDR.	GIRDER	THK.	THICKENED or THICK
HCA	HEADED CONCRETE ANCHORS	THRU	THROUGH
HI	HIGH	TYP.	TYPICAL
H.T.	HEAVY TIMBER	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
HSS	HOLLOW STRUCTURAL SECTION	W	WIDE
ID	INSIDE DIAMETER	W	WITH
INSUL.	INSULATION/INSULATING	WO	WITHOUT
INTER.	INTERIOR	WD.	WOOD
JST.	JOIST	WWR	WELDED WIRE REINFORCEMENT
JT.	JOINT		
LG.	LONG		
LFH.	LONG FACE HORIZONTAL		
LFV.	LONG FACE VERTICAL		
LSH.	LONG SIDE HORIZONTAL		
LSV.	LONG SIDE VERTICAL		
K	KIPS		
KLF or k/ft	KIPS PER LINEAL FOOT		
KSI or KSI.	KIPS PER SQUARE INCH		
KSF or KSF.	KIPS PER SQUARE FOOT		

F__ ← FOOTING SIZE DESIGNATION

(+/-) X' - X" ← TOP/FOOTING ELEV. VERSUS PROJECT 0'-0" ELEVATION

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT
F3	3'-0"x3'-0"x1'-0"	(4)-#4 E.W.
F4	4'-0"x4'-0"x1'-0"	(5)-#5 E.W.
F5	5'-0"x5'-0"x1'-0"	(6)-#5 E.W.
F6	6'-0"x6'-0"x1'-2"	(7)-#5 E.W. TOP & BOTT.
F10.5	10'-0"x5'-0"x1'-2"	(11)-#5 S.W. & (6)-#5 L.W.
F16.7	16'-0"x7'-0"x1'-2"	(16)-#6 S.W. & (8)-#6 L.W.

2 3

MIN. LAP SPLICE LENGTH SCHEDULE FOR CONCRETE MASONRY UNITS (CMU)

BAR TYPE	BAR SIZE							
	#3	#4	#5	#6	#7	#8	#9	
8" CMU	19"	25"	31"	37"	78"	112"	146"	

NOTES:

1. f'm = 1500 psi
2. REBAR IS ASSUMED TO BE UNCOATED (NO EPOXY COATING)
3. REBAR IS LOCATED IN CENTER OF CELL.

COLUMN SCHEDULE

MARK	SIZE
C1	HSS5x5x5/16
C2	HSS6x6x1/2
C3	HSS7"x7"x1/4
C4	HSS8x4x1/4
C5	HSS4x4x1/4

2 3

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (IBC 2006)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[B]	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	×	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	—
b. MANUFACTURERS' CERTIFICATE OF COMPLIANCE REQUIRED.	—	×	—	—
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING - TYPE CONNECTIONS.	—	×	AISC 360, SECTION M2.5	1704.3.3
b. SLIP-CRITICAL CONNECTIONS.	×	×		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	—	ASTM A 6 OR ASTM A 568	1708.4
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS REQUIRED.	—	—	ASTM A 6 OR ASTM A 568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	—	AISC 360, SECTION A3.5	—
b. MANUFACTURERS' CERTIFICATE OF COMPLIANCE REQUIRED.	—	—	—	—
5. INSPECTION OF WELDING:	—	—		
a. STRUCTURAL STEEL				
1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	×	—	AWS D1.1	1704.3.1
2. MULTI-PASS FILLET WELDS	×	—		
3. SINGLE-PASS FILLET WELDS > 5/16"	×	—		
4. SINGLE-PASS FILLET WELDS ≤ 5/16"	—	×		
5. FLOOR/ROOF DECK WELDS AND LAP SCREWS	—	×	AWS D1.3	—
b. REINFORCING STEEL	—	—	AWS D1.4 ACI 318:3.5.2	—
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	—	×		
2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT	×	—		
3. SHEAR REINFORCEMENT	×	—		
4. OTHER REINFORCING STEEL	—	×		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.		×	—	1704.3.2
a. DETAILS SUCH AS BRACING AND STIFFENING.	—	—		
b. MEMBER LOCATIONS.	—	—		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—			

NOTES:

FOR SI: 1 INCH = 25.4 MM.

A. SEE SPECIAL INSPECTION NOTES ON GENERAL NOTE SHEET FOR ADDITIONAL INFORMATION.
B. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

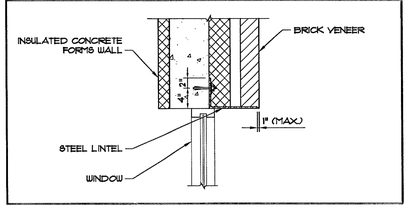
BRICK/STONE VENEER LINTEL SCHEDULE

SPAN (OPENING)	LINTEL SIZE
0'-0" TO 8'-0"	BENT PL. 6"x3 1/2" x 5/16" (LLH) W 1/2" DIA. EXP. ANCHORS @ 12" O.C. (EMBED = 2 1/4"

NOTE:

1. PROVIDE 6" BEARING (MIN) @ EA END OF LINTEL ANGLES.
2. ALL EXTERIOR LINTELS SHALL BE GALVANIZED.

2



MIN. LAP SPLICE LENGTH SCHEDULE (3000 PSI)

BAR TYPE	BAR SIZE					
	#3	#4	#5	#6	#7	#8
FOOTINGS	17"	22"	28"	33"	48"	55"
WALLS	22"	29"	36"	43"	63"	72"

NOTES:

1. THESE TABLES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE. IF LIGHTWEIGHT AGGREGATE CONCRETE IS USED, MULTIPLY TABLE VALUES BY 1.3.
2. REBAR IS ASSUMED TO BE UNCOATED (NO EPOXY COATING).

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC 2006)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[B]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	—	×	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B.	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	×	—	—	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	—	×	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	×	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	×	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	×	ACI 318: 5.11-5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	× ×	—	ACI 318: 18.20 ACI 318: 18.18.4	—
9. ERECTION OF PRECAST CONCRETE MEMBERS.	—	×	ACI 318: CH. 16	—
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	×	ACI 318: 6.2	—
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	×	ACI 318: 6.11	—

NOTES:

FOR SI: 1 INCH = 25.4 MM.

A. SEE SPECIAL INSPECTION NOTES ON GENERAL NOTE SHEET FOR ADDITIONAL INFORMATION.
B. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF)

EFFECTIVE WIND AREA (FT²)	IBC 2006: LOCATION PER ASCE 7-05: FIGURE 6-3				
	1	2	3	4	5
<10	20.0 -20.0	20.0 -34.2	20.0 -51.6	20.5 -22.2	20.5 -27.3
20	20.0 -20.0	20.0 -30.6	20.0 -42.7	20.0 -21.2	20.0 -25.5
50	20.0 -20.0	20.0 -25.8	20.0 -31.0	20.0 -20.1	20.0 -23.1
100	20.0 -20.0	20.0 -22.2	20.0 -22.2	20.0 -20.0	20.0 -21.2
>500	- -	- -	- -	20.0 -20.0	20.0 -20.0

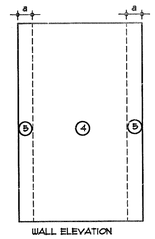
NOTES:

1) a = 10 FT

2) POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING.

3) EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.

4) FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.



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CARROLLTON, GA 30117

DATE	REVISION
02/21/11	ISSUED FOR BID
03/04/11	ADDENDUM #1
03/11/11	ADDENDUM #2
04/11/11	ADDENDUM #3

PROJECT NO.
229.01.00

DATE:
SEPT 28TH, 2010

DRAWING TITLE:
SCHEDULES

S0.03

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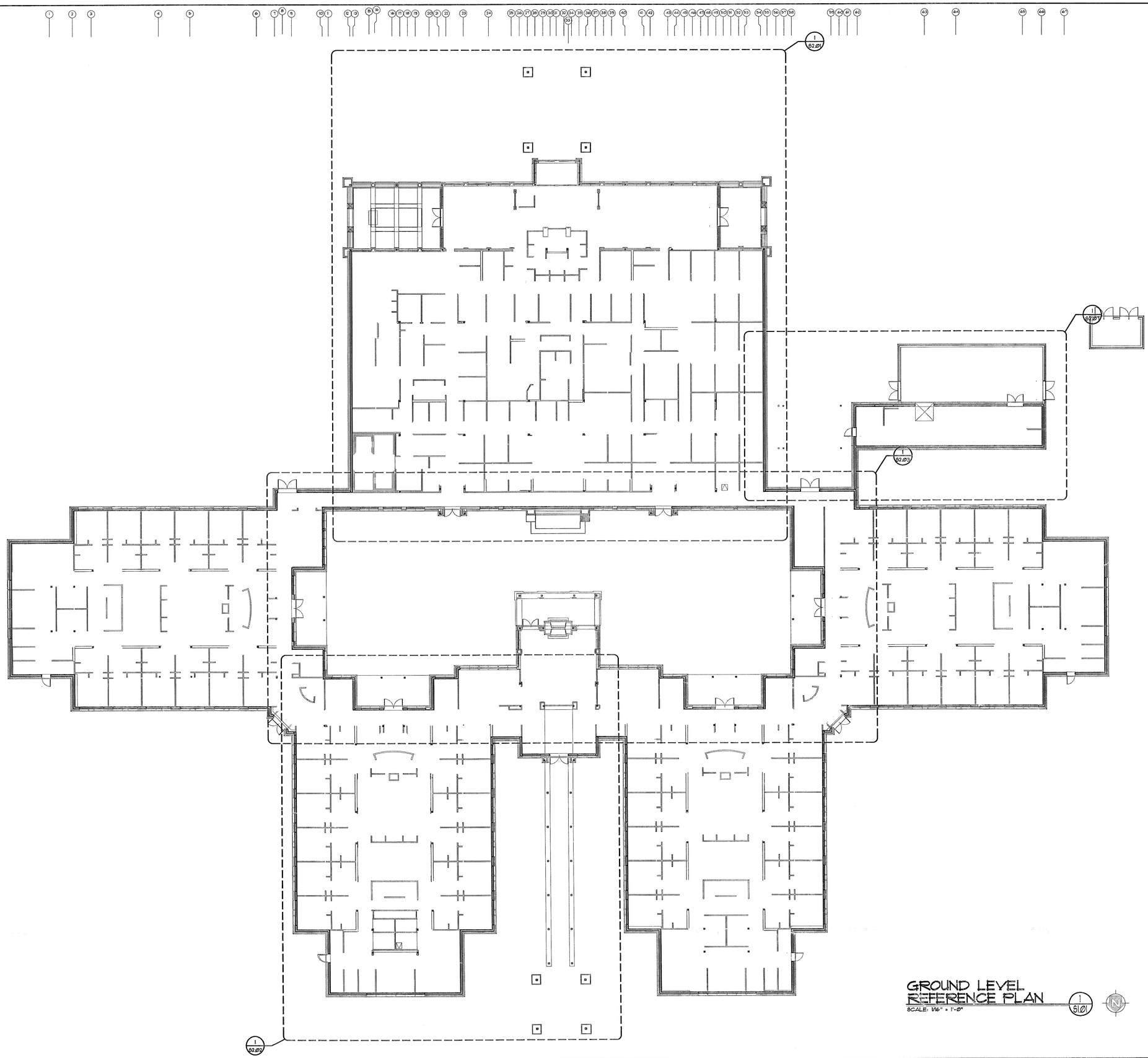

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02/21/11	ISSUED FOR BID
03/04/11	ADDENDUM #1
03/11/11	ADDENDUM #2

PROJECT NO:
2280.00

DATE:
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GROUND LEVEL
REFERENCE PLAN

S1.01

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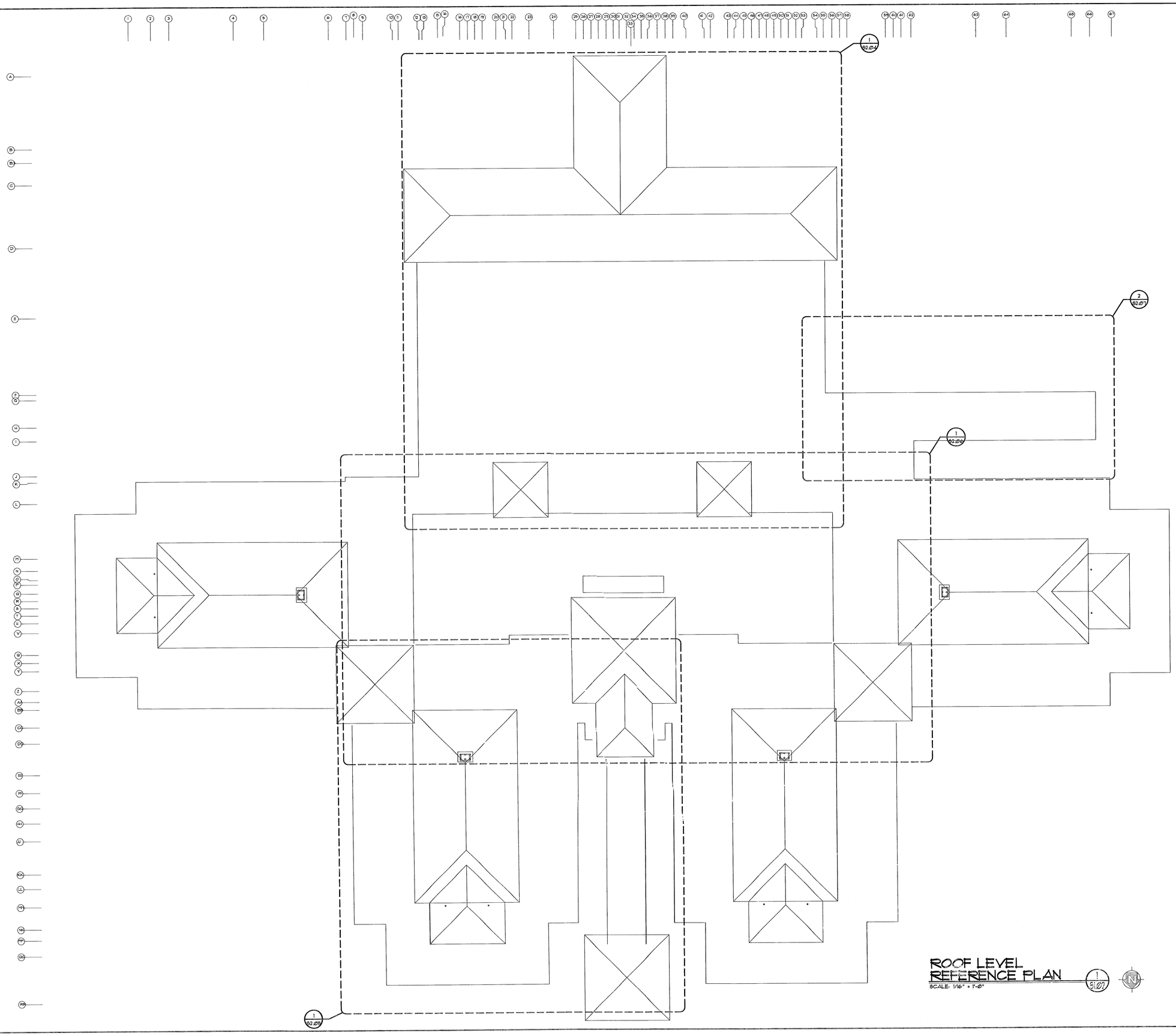

ROOF LEVEL REFERENCE PLAN

SCALE: 1/16" = 1'-0"

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DATE	REVISION
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03/11/11	ADDENDUM #2

PROJECT NO.
229.0100

DATE
SEPT 28TH, 2010

DRAWING TITLE:
ROOF LEVEL
REFERENCE PLAN

S1.02

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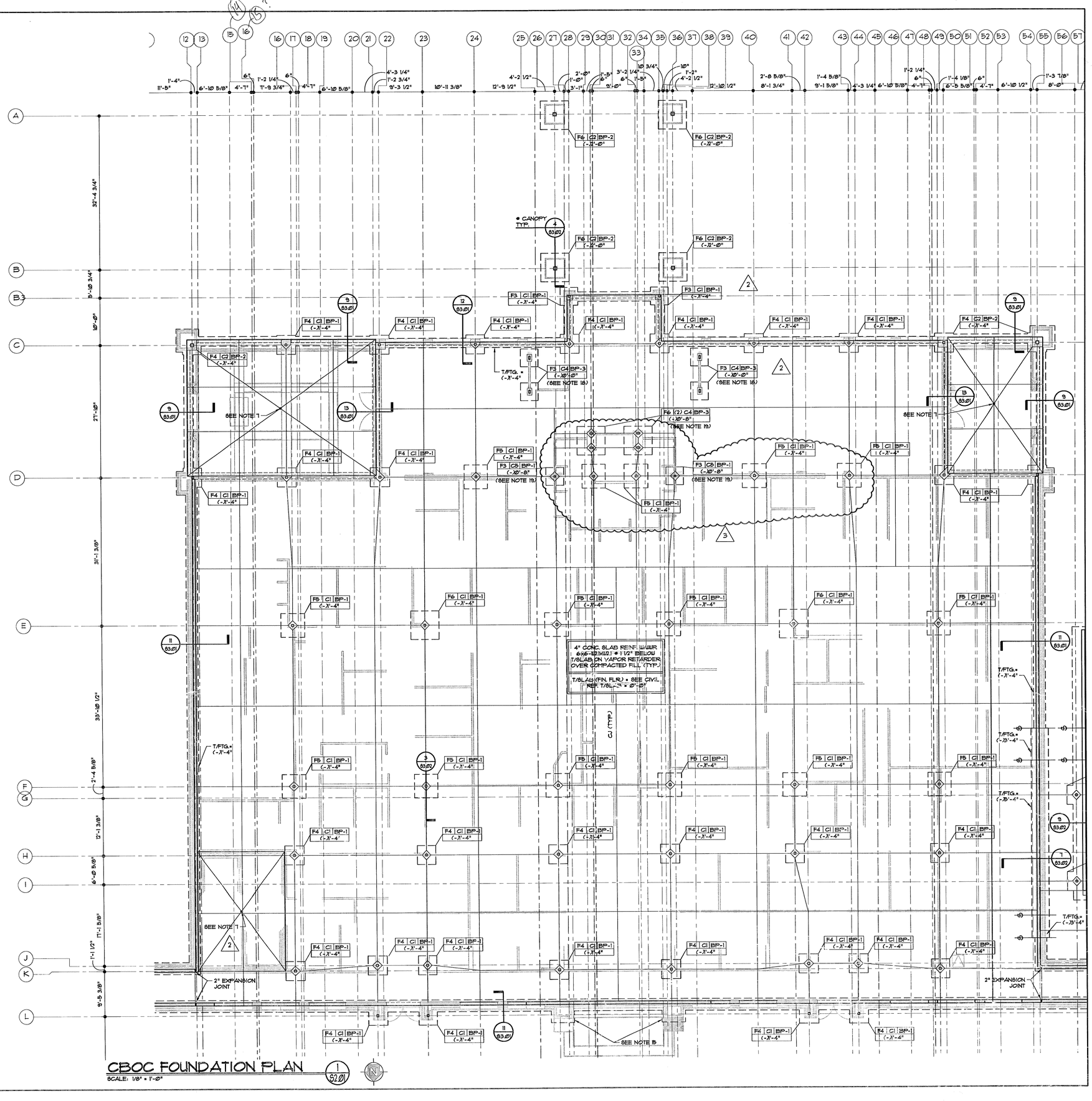

NOTES:

1. PIPING MUST PASS OVER COLUMN FOOTINGS. SEE DETAILS 1/S3.01 & 2/S3.01 FOR STANDARD DETAILS OF PIPING PASSING UNDER WALL FOOTINGS AND TRENCHES ADJACENT TO FOOTINGS. PIPING PASSING UNDER FOOTINGS MUST BE IN PLACE AND INSPECTED BEFORE FOOTINGS ARE PREPARED OR FOOTING MUST STEP BELOW PIPE. G.C. TO COORDINATE DEPTH OF FOOTINGS WITH DEPTH OF PLUMBING.
2. F# C# BP-# (-X'-X") P
   F#: DENOTES FOOTING MARK (SEE FOOTING SCHEDULE ON S0.03).
   C#: DENOTES STEEL COLUMN MARK (SEE COLUMN SCHEDULE ON S0.03).
   BP-#: DENOTES STEEL BASE PLATE MARK (SEE BASE PLATE DETAILS ON 1/S3.02).
   (-X'-X"): DENOTES TOP OF FOOTING ELEVATION VERSUS PROJECT 0'-0" ELEVATION.
   P: DENOTES CONCRETE PIER (SEE DETAIL 8/S3.02).
3. SEE DETAIL 7/S3.01 FOR TYPICAL CONCRETE WALL JOINTS.
4. SEE MECH./ARCH. DRAWINGS FOR EXACT SIZE & LOCATION OF WALL PENETRATIONS.
5. SEE PLUMBING DRAWING FOR LOCATIONS & ELEVATIONS OF ALL UNDERGROUND SANITARY AND PLUMBING LINES. WHERE FOOTING IS NOT STEPPED DOWN FOR PLUMBING LINES, PLUMBING LINE SHALL TRAVEL BELOW FOOTING. PROTECT LINE PER DETAIL 1/S3.01.
6. SEE ARCH. FOR ALL BUILDING DIMENSIONS NOT SHOWN.
7. SEE ARCH. FOR ALL DEPRESSED/RAISED AREAS (SEE 4/S3.01 FOR DEPRESSED SLAB DETAIL).
8. CJ: DENOTES SLAB JOINT (SEE 3/S3.01).
9. SEE DETAIL 6/S3.01 FOR TYPICAL NON-COLUMN CONCRETE WALL CORNER/INTERSECTION.
10. ▭: DENOTES INSULATED CONCRETE FORMS SYSTEM WITH 8" CONCRETE CAVITY WALL REINF. W/ #5 @ 12" O.C. VERT. AND #4 @ 12" O.C. HORIZ.
11. SEE ARCH. FOR EXTENTS AND MINIMUM SLOPE CRITERIA FOR ALL SLOPED SLABS. MAINTAIN 4" MINIMUM SLAB THICKNESS.
12. PROVIDE (2)-#4 x4'-0" LG. REBAR @ 1 1/2" BELOW T/SLAB @ ALL REENTRANT CORNERS, DEPRESSED SLAB CORNERS, AROUND STEEL COLUMNS, AND @ ALL DISCONTINUOUS SAW-CUT CONTROL JOINTS.
13. INSTALL DEPRESS SLAB FOR SHOWER CABINS (SEE ARCH. FOR EXTENTS OF DEPRESSED SLABS).
14. ▨: DENOTES 8" CMU WALL REINF. W/ #5 @ 24" O.C.
15. EXTEND 1'-0" DEEP CONT. FOOTING TO SUPPORT VENEER (TYP.). REINF. W/ #4 @ 12" O.C. E.W.
16. PROVIDE HSS3 1/2x3 1/2x5/16 POSTS AT PATIENT LIFT FRAMES (SEE ARCH. FOR LIFT FRAME LOCATIONS AND LIFT MANUF. FOR CONN. REQUIREMENTS). SEE DETAIL 6/S3.02 FOR CONN. DETAILS.
17. ⊕ : DENOTES STEP IN FOUNDATION (SEE 5/S3.01).
18. INSTALL HSS16x4x5/16 (1.6#) @ STEEL FRAME TOP (SEE ARCH. FOR INFO.).
19. CONTRACTOR TO COORDINATE CHECK IN DESK. STEEL FRAMING WITH ARCHITECTURAL DRAWINGS AND DIM'S. SEE 6/S3.04 FOR STEEL BRACE ELEVATION.

CBOC FOUNDATION PLAN

1 / S2.01

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

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DATE	REVISION
07/21/11	ISSUED FOR BID
09/30/4/11	ADDENDUM #1
09/11/11	ADDENDUM #2
04/11/11	ADDENDUM #3

PROJECT NO.
229.01.00

DATE:
SEPT 28TH, 2010

DRAWING TITLE:
CBOC FOUNDATION PLAN

S2.01

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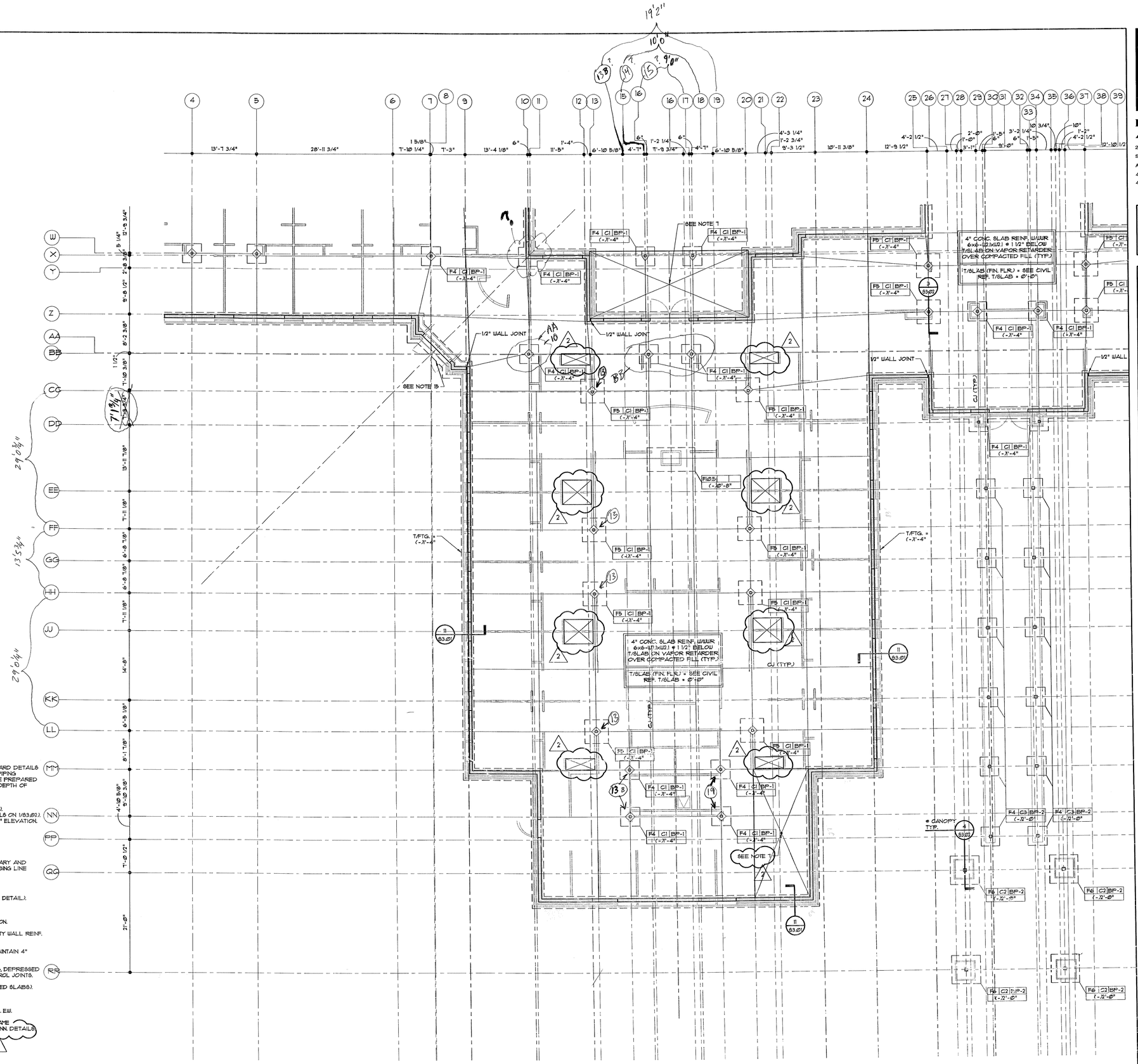

NOTES:

1. PIPING MUST PASS OVER COLUMN FOOTINGS. SEE DETAILS 1/S3.Ø1 & 2/S3.Ø1 FOR STANDARD DETAILS OF PIPING PASSING UNDER WALL FOOTINGS AND TRENCHES ADJACENT TO FOOTINGS. PIPING PASSING UNDER FOOTINGS MUST BE IN PLACE AND INSPECTED BEFORE FOOTINGS ARE PREPARED OR FOOTING MUST STEP BELOW PIPE. G.C. TO COORDINATE DEPTH OF FOOTINGS WITH DEPTH OF PLUMBING.
2. | F* | C* | BP-* | / | (-X'-X") | P | F*: DENOTES FOOTING MARK (SEE FOOTING SCHEDULE ON S0.03). C*: DENOTES STEEL COLUMN MARK (SEE COLUMN SCHEDULE ON S0.03). BP-*: DENOTES STEEL BASE PLATE MARK (SEE BASE PLATE DETAILS ON 1/S3.Ø1). (-X'-X"): DENOTES TOP OF FOOTING ELEVATION VERSUS PROJECT Ø'-Ø" ELEVATION.
3. P: DENOTES CONCRETE PIER (SEE DETAIL 8/S3.Ø2).
4. SEE DETAIL 7/S3.Ø1 FOR TYPICAL CONCRETE WALL JOINTS.
5. SEE MECH/ARCH. DRAWINGS FOR EXACT SIZE & LOCATION OF WALL PENETRATIONS.
6. SEE PLUMBING DRAWING FOR LOCATIONS & ELEVATIONS OF ALL UNDERGROUND SANITARY AND PLUMBING LINES. WHERE FOOTING IS NOT STEPPED DOWN FOR PLUMBING LINES, PLUMBING LINE SHALL TRAVEL BELOW FOOTING. PROTECT LINE PER DETAIL 1/S3.Ø1.
7. SEE ARCH. FOR ALL BUILDING DIMENSIONS NOT SHOWN.
8. SEE ARCH. FOR ALL DEPRESSED/RAISED AREAS (SEE 4/S3.Ø1 FOR DEPRESSED SLAB DETAIL).
9. CJ: DENOTES SLAB JOINT (SEE 3/S3.Ø1).
10. SEE DETAIL 6/S3.Ø1 FOR TYPICAL NON-COLUMN CONCRETE WALL CORNER/INTERSECTION.
11. : DENOTES INSULATED CONCRETE FORMS SYSTEM WITH 8" CONCRETE CAVITY WALL REINF. W/ #5 @ 12" O.C. VERT. AND #4 @ 12" O.C. HORIZ.
12. SEE ARCH. FOR EXTENTS AND MINIMUM SLOPE CRITERIA FOR ALL SLOPED SLABS. MAINTAIN 4" MINIMUM SLAB THICKNESS.
13. PROVIDE (2)-#4 x4'-Ø" LG. REBAR @ 1 1/2" BELOW T/SLAB @ ALL REENTRANT CORNERS, DEPRESSED SLAB CORNERS, AROUND STEEL COLUMNS, AND @ ALL DISCONTINUOUS SAW-CUT CONTROL JOINTS.
14. INSTALL DEPRESS SLAB FOR SHOWER CABINS (SEE ARCH. FOR EXTENTS OF DEPRESSED SLABS).
15. : DENOTES 8" CMU WALL REINF. W/ #5 @ 24" O.C.
16. EXTEND 1'-Ø" DEEP CONT. FOOTING TO SUPPORT VENEER (TYP.). REINF. W/ #4 @ 12" O.C. EW.
17. PROVIDE HSS3 1/2x3 1/2x5/16 POSTS AT PATIENT LIFT FRAMES (SEE ARCH. FOR LIFT FRAME LOCATIONS AND LIFT MANUF. FOR CONN. REQUIREMENTS). SEE DETAIL 6/S3.Ø2 FOR CONN. DETAILS.
18. -(5)- :DENOTES STEP IN FOUNDATION (SEE 5/S3.Ø1).
19. INSTALL HSS16x4x5/16 (LSH) @ STEEL FRAME TOP (SEE ARCH. FOR INFO.).

CLC FOUNDATION PLAN

1 / S2.02

SCALE: 1/8" = 1'-Ø"

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DATE	REVISION
02/21/11	ISSUED FOR BID
03/04/11	ADDENDUM #1
03/11/11	ADDENDUM #2

PROJECT NO.
229.0100

DATE:
SEPT 28TH, 2010

DRAWING TITLE:
CLC FOUNDATION PLAN

S2.02

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NOTES:

1. PIPING MUST PASS OVER COLUMN FOOTINGS. SEE DETAILS 1/S3.Ø1 & 2/S3.Ø1 FOR STANDARD DETAILS OF PIPING PASSING UNDER WALL FOOTINGS AND TRENCHES ADJACENT TO FOOTINGS. PIPING PASSING UNDER FOOTINGS MUST BE IN PLACE AND INSPECTED BEFORE FOOTINGS ARE PREPARED OR FOOTING MUST STEP BELOW PIPE. G.C. TO COORDINATE DEPTH OF FOOTINGS WITH DEPTH OF PLUMBING.

2. F# | C# | BP-# | (-X'-X" | P
   F#: DENOTES FOOTING MARK (SEE FOOTING SCHEDULE ON S0.Ø3).
   C#: DENOTES STEEL COLUMN MARK (SEE COLUMN SCHEDULE ON S0.Ø3).
   BP-#: DENOTES STEEL BASE PLATE MARK (SEE BASE PLATE DETAILS ON 1/S3.Ø2).
   (-X'-X": DENOTES TOP OF FOOTING ELEVATION VERSUS PROJECT Ø'-Ø" ELEVATION.

3. P: DENOTES CONCRETE PIER (SEE DETAIL 8/S3.Ø2).

4. SEE DETAIL 7/S3.Ø1 FOR TYPICAL CONCRETE WALL JOINTS.

5. SEE MECH/ARCH. DRAWINGS FOR EXACT SIZE & LOCATION OF WALL PENETRATIONS.

6. SEE PLUMBING DRAWING FOR LOCATIONS & ELEVATIONS OF ALL UNDERGROUND SANITARY AND PLUMBING LINES. WHERE FOOTING IS NOT STEPPED DOWN FOR PLUMBING LINES, PLUMBING LINE SHALL TRAVEL BELOW FOOTING. PROTECT LINE PER DETAIL 1/S3.Ø1.

7. SEE ARCH. FOR ALL BUILDING DIMENSIONS NOT SHOWN.

8. SEE ARCH. FOR ALL DEPRESSED/RAISED AREAS (SEE 4/S3.Ø1 FOR DEPRESSED SLAB DETAIL).

9. CJ: DENOTES SLAB JOINT (SEE 3/S3.Ø1).

10. SEE DETAIL 6/S3.Ø1 FOR TYPICAL NON-COLUMN CONCRETE WALL CORNER/INTERSECTION.

11. : DENOTES INSULATED CONCRETE FORMS SYSTEM WITH 8" CONCRETE CAVITY WALL REINF. W/ #5 @ 12" O.C. VERT. AND #4 @ 12" O.C. HORIZ.

12. SEE ARCH. FOR EXTENTS AND MINIMUM SLOPE CRITERIA FOR ALL SLOPED SLABS. MAINTAIN 4" MINIMUM SLAB THICKNESS.

13. PROVIDE (2)-#4 x4'-Ø" LG. REBAR @ 1 1/2" BELOW T/SLAB @ ALL REENTRANT CORNERS, DEPRESSED SLAB CORNERS, AROUND STEEL COLUMNS, AND @ ALL DISCONTINUOUS SAW-CUT CONTROL JOINTS.

14. INSTALL DEPRESS SLAB FOR SHOWER CABINS (SEE ARCH. FOR EXTENTS OF DEPRESSED SLABS).

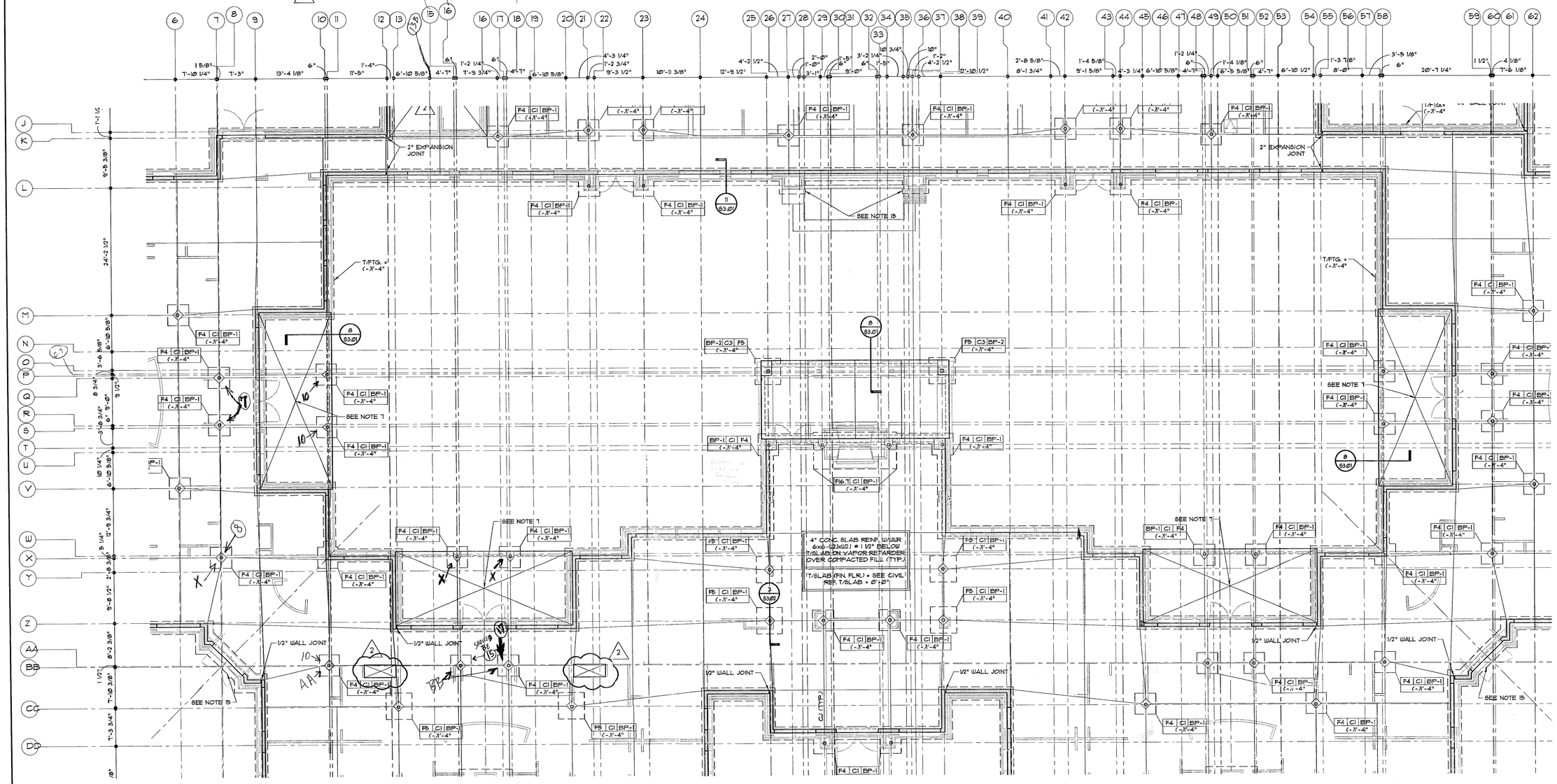
15. : DENOTES 8" CMU WALL REINF. W/ #5 @ 24" O.C.

16. EXTEND 1'-Ø" DEEP CONT. FOOTING TO SUPPORT VENEER (TYP.). REINF. W/ #4 @ 12" O.C. E.W.

17. PROVIDE HSS3 1/2x3 1/2x5/16 POSTS AT PATIENT LIFT FRAMES (SEE ARCH. FOR LIFT FRAME LOCATIONS AND LIFT MANUF. FOR CONN. REQUIREMENTS). SEE DETAIL 6/S3.Ø2 FOR CONN. DETAILS.

18. -(D)- :DENOTES STEP IN FOUNDATION (SEE 5/S3.Ø1).

19. INSTALL HSS16x4x5/16 (L&H) @ STEEL FRAME TOP (SEE ARCH. FOR INFO.)



COMMON AREA FOUNDATION PLAN

SCALE: 1/8" = 1'-Ø"

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PES PROJECT NUMBER: 12035

TRINKA DAVIS VETERANS VILLAGE
CARROLLTON GA 30117

DATE	REVISION
02/21/11	ISSUED FOR BID
03/04/11	ADDENDUM #1
03/11/11	ADDENDUM #2

PROJECT NO.
229.01.00

DATE
SEPT 28TH, 2010

DRAWING TITLE:
COMMON AREA FOUNDATION PLAN

S2.03

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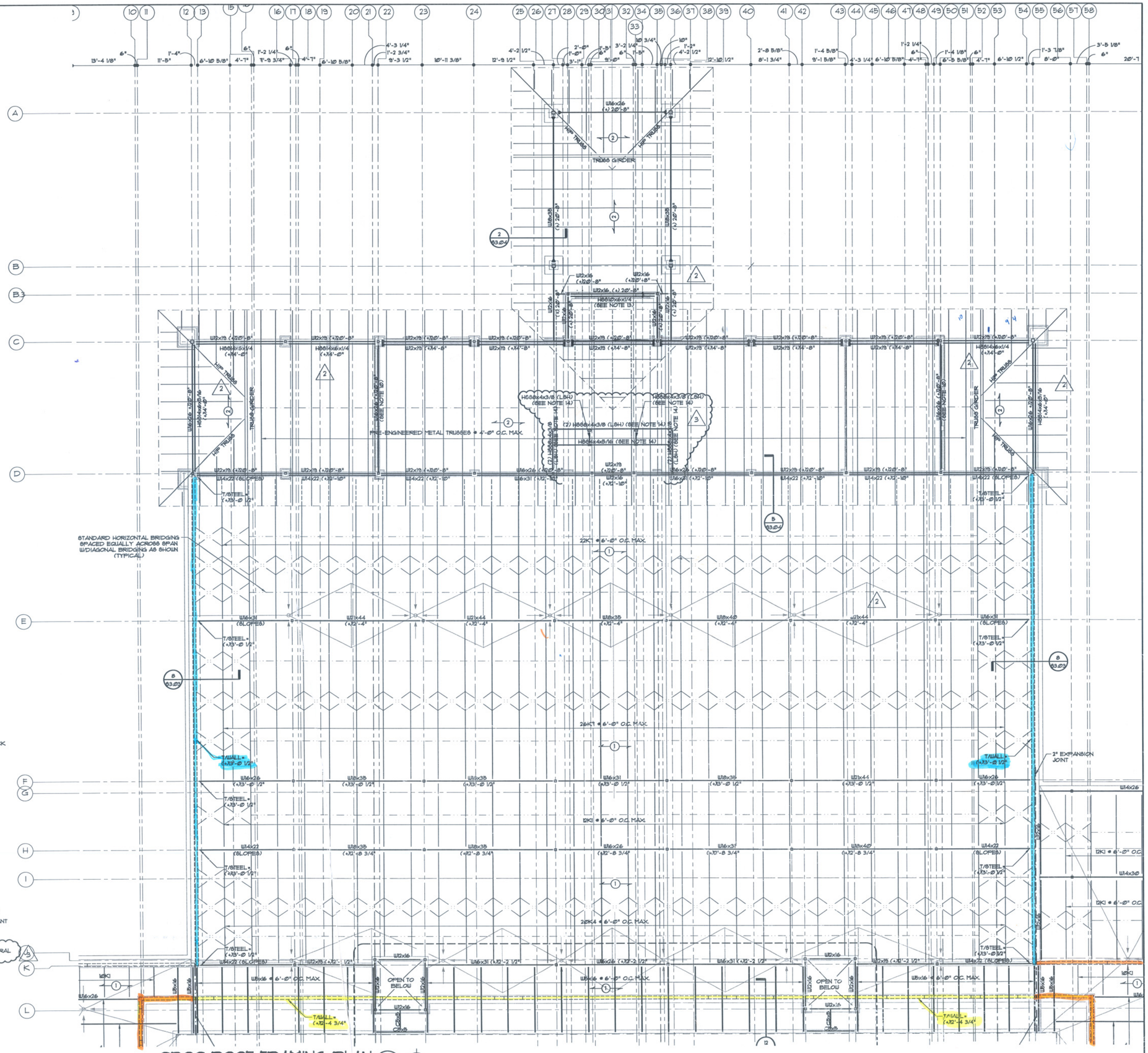

NOTES:

1. ① ; DENOTES 1 1/2" - 22 GAGE WIDE RIB METAL ROOF DECK.
   MINIMUM DECK PROPERTIES:
   I = Ø.155 IN4/FT
   Sp = Ø.186 IN3/FT
   Sn = Ø.152 IN3/FT
2. ② ; DENOTES 1 1/2" - 22 GAGE WIDE RIB METAL ROOF DECK OVER PRE-ENGINEERED METAL TRUSSES @ 4'-0" O.C.
   MINIMUM DECK PROPERTIES:
   I = Ø.155 IN4/FT
   Sp = Ø.186 IN3/FT
   Sn = Ø.152 IN3/FT
3. ③ ; DENOTES 3" REG. WT. CONC. SLAB ON 9/16"-28 GAGE METAL FORM DECK W/ WWR 6x6-W2.1xW2.1 (FLAT SHEETS) @ MID-DEPTH OF SLAB
   MINIMUM DECK PROPERTIES:
   I = Ø.012 IN4/FT
   Sp = Ø.035 IN3/FT
   Sn = Ø.036 IN3/FT

   T/SLAB = (+)1'-1"
4. ⊏⊐⊏⊐ ; DENOTES INSULATED CONCRETE FORMS SYSTEM WITH 8" CONCRETE CAVITY WALL BELOW.
5. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN.
6. T/STEEL @ CBOC = SEE PLAN (STEEL FRAMING SLOPES)
   T/STEEL @ CLC = (+)12'-11" (U.N.O.) SEE PLAN (STEEL FRAMING FLAT)
   T/STEEL @ ROOF POP-UP TOWERS = (+) 20'-8"

   INSTALL MISC. HSS2 1/2x2 1/2x3/16 TO RAISE T/STEEL AS NEEDED.
7. SEE 6/S3.03 FOR "TYP. ROOF/HVAC OPNG." DETAIL.
8. ▶ ; DENOTES MOMENT CONNECTION (SEE DETAIL 5/S3.03).
9. SEE 4/S3.03 FOR "TYP. JOIST CHORD SUPPORT" DETAIL.
10. CENTER BEAM ON CURTAIN WALL BELOW.
11. SEE 5/S3.02 FOR TYPICAL STEEL BEAM TO CONCRETE WALL CONNECTION DETAIL.
12. TRUSS DESIGNER TO SIZE TRUSSES FOR 400 LBS POINT LOAD FROM 10x10 PENDANT (SEE ARCH FOR INFO.).
13. COORDINATE T/STEEL W/ STORE FRONT DETAILS (SEE ARCH.) 2
14. CONTRACTOR TO COORDINATE CHECK IN DESK STEEL FRAMING WITH ARCHITECTURAL DRAWINGS AND DWGS. SEE 6/S3.04 FOR STEEL BRACE ELEVATION.

CBOC ROOF FRAMING PLAN 1/S2.04

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

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03/11/11	ADDENDUM #2
04/1/11	ADDENDUM #3

PROJECT NO.
223.0.00

DATE:
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DRAWING TITLE:
CBOC ROOF FRAMING PLAN

S2.04

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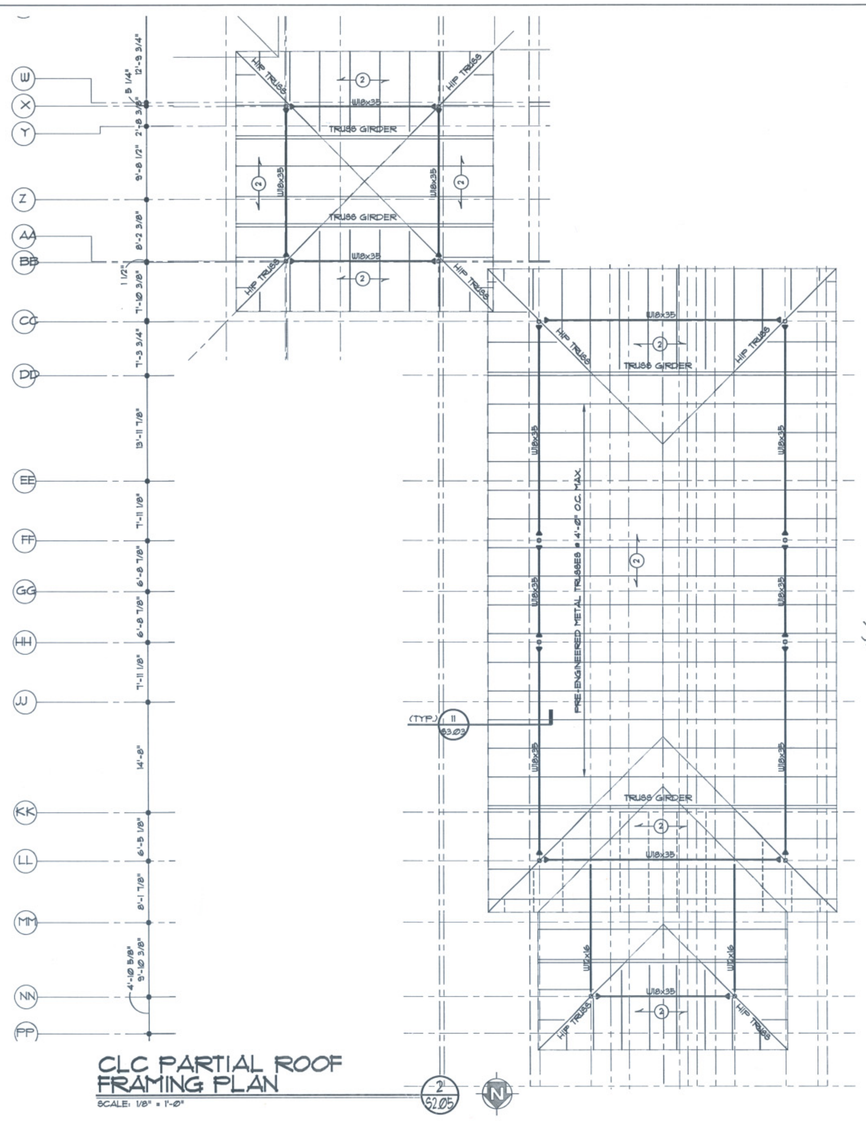
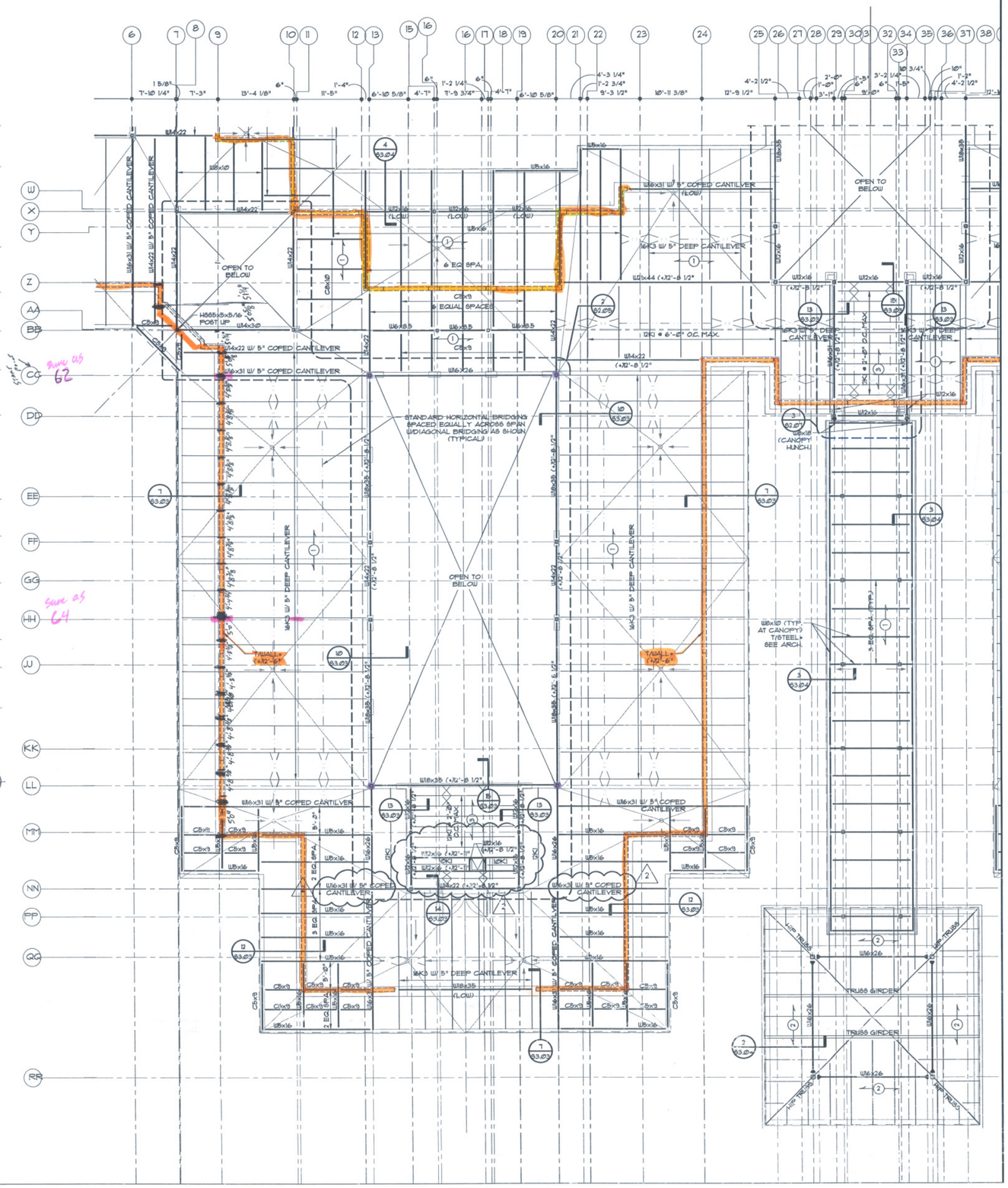


CLC PARTIAL ROOF FRAMING PLAN

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

NOTES:

1. SEE NOTES ON 1/S2.05.



CLC ROOF FRAMING PLAN

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

NOTES:

1. ① : DENOTES 1 1/2" - 22 GAGE WIDE RIB METAL ROOF DECK.
   MINIMUM DECK PROPERTIES:
   I = Ø.155 IN4/FT
   Sp = Ø.186 IN3/FT
   Sn = Ø.192 IN3/FT
2. ② : DENOTES 1 1/2" - 22 GAGE WIDE RIB METAL ROOF DECK OVER PRE-ENGINEERED METAL TRUSSES @ 4'-0" O.C.
   MINIMUM DECK PROPERTIES:
   I = Ø.155 IN4/FT
   Sp = Ø.186 IN3/FT
   Sn = Ø.192 IN3/FT
3. ③ : DENOTES 3" REG. WT. CONC. SLAB ON 3/16"-28 GAGE METAL FORM DECK W/ WWR 6x6-W2.9xW2.9 (FLAT SHEETS) @ MID-DEPTH OF SLAB
   MINIMUM DECK PROPERTIES:
   I = Ø.012 IN4/FT
   Sp = Ø.035 IN3/FT
   Sn = Ø.036 IN3/FT

   T/SLAB = (+)T'-1"
4. ⊏⊏⊏⊐ : DENOTES INSULATED CONCRETE FORMS SYSTEM WITH 8" CONCRETE CAVITY WALL BELOW.
5. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN.
6. T/STEEL @ CBOC = SEE PLAN (STEEL FRAMING SLOPES.)
   T/STEEL @ CLC = (+)2'-11" (U.N.O.) SEE PLAN (STEEL FRAMING FLAT)
   T/STEEL @ ROOF POP-UP TOWERS = (+) 2'0"-8"

   INSTALL MISC. HSS2 1/2x2 1/2x3/16 TO RAISE T/STEEL AS NEEDED.
7. SEE 6/S3.03 FOR "TYP. ROOF/HVAC OPNG." DETAIL.
8. ▶ : DENOTES MOMENT CONNECTION (SEE DETAIL 5/S3.03).
9. SEE 4/S3.03 FOR "TYP. JOIST CHORD SUPPORT" DETAIL.
10. CENTER BEAM ON CURTAIN WALL BELOW.
11. SEE 5/S3.02 FOR TYPICAL STEEL BEAM TO CONCRETE WALL CONNECTION DETAIL.
12. TRUSS DESIGNER TO SIZE TRUSSES FOR 400 LBS POINT LOAD FROM 10x10 PENDAN (SEE ARCH FOR INFO.).
13. COORDINATE T/STEEL W/ STORE FRONT DETAILS (SEE ARCH.).

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DRAWING TITLE: CLC ROOF FRAMING PLAN

S2.05

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