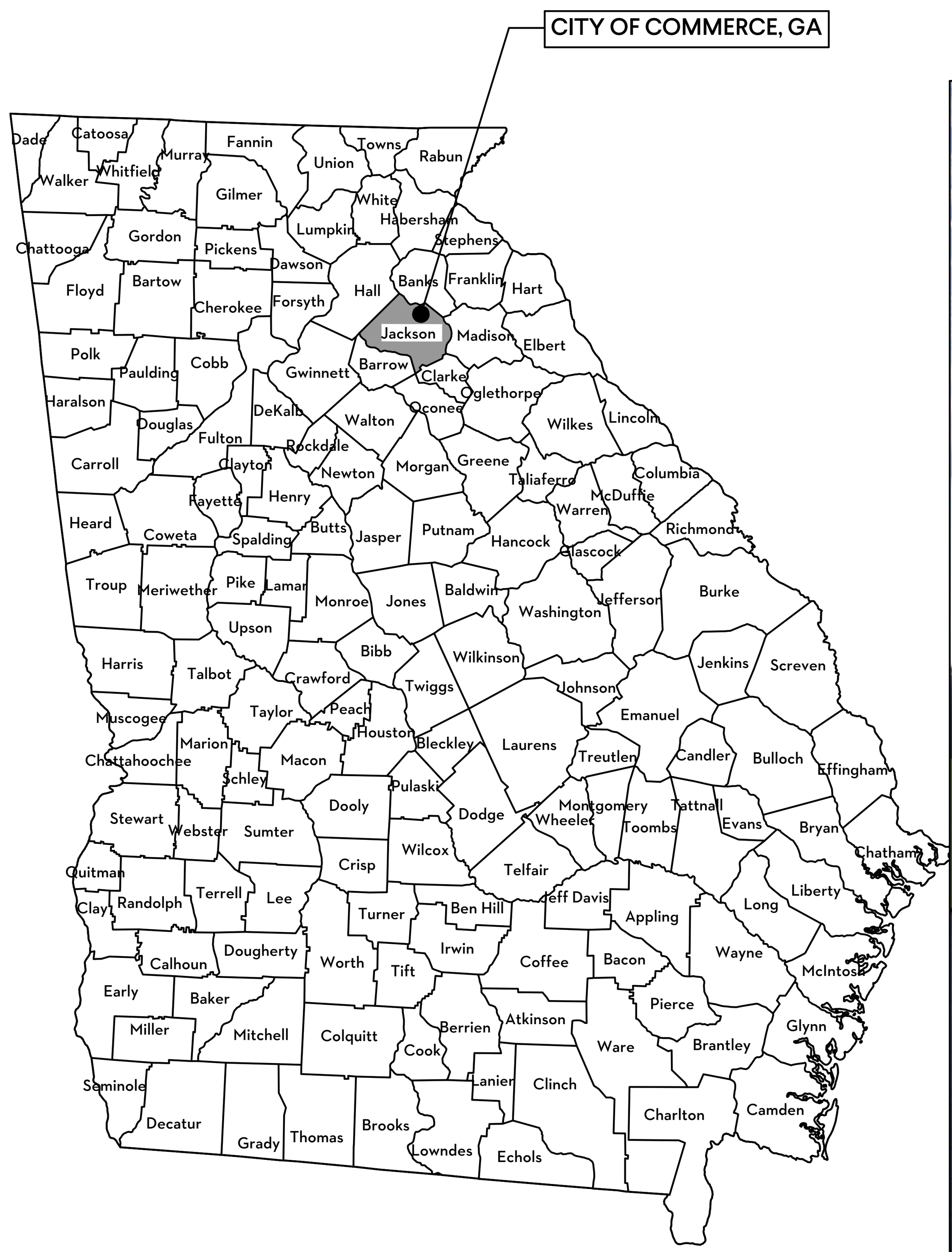
GROVE CREEK WPCP

CITY OF COMMERCE, GA
GMC PROJECT # CATL230033

CITY OF COMMERCE, GA



LOCATION MAP

MARCH 2025

BID SET

GEORGIA811
www.Georgia811.com

Georgia One-Call Center
1-800-282-7411
Call at Least Two Working Days
Before You Dig
It's The Law

CLIENT PROJECT TEAM

DR. J. CLARK HILL, III	MAYOR
KEITH BURCHETT	MAYOR PRO-TEM
MATTHEW HAILEY	CITY MANAGER
JOSH ALLISON	WATER & SEWER SUPERINTENDENT
TADD EDMONDSON	WASTEWATER SUPERINTENDENT

DESIGN PROJECT TEAM

GOODWYN MILLS CAWOOD, LLC	CIVIL, PROCESS, ARCHITECTURAL
BFIELD ENGINEERING	ELECTRICAL, MECHANICAL, PLUMBING
DAY STRUCTURES	STRUCTURAL

I CERTIFY THAT I HAVE BEEN IN RESPONSIBLE CHARGE OF THE DESIGN OF THIS PROJECT IN ACCORDANCE WITH THE RULES OF THE GEORGIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS. I FURTHER CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THESE PLANS AND SPECIFICATION WERE PREPARED IN ACCORDANCE WITH CURRENT STANDARD ENGINEERING PRACTICES AND ACCURATELY REFLECT THE DESIGN DEVELOPMENT REPORT (DDR) PREVIOUSLY REVIEWED AND CONCURRED IN BY EPD. I FURTHER CERTIFY THAT THE SYSTEM AS DESIGNED CAN REASONABLY BE EXPECTED TO CONSISTENTLY MEET ALL CURRENTLY APPLICABLE PERMIT LIMITS, CONDITIONS, AND REGULATORY REQUIREMENTS, PROVIDED THE FACILITY IS CONSTRUCTED AS DESIGNED AND PROPERLY OPERATED AND MAINTAINED.

ENGINEER'S SIGNATURE Graham Sizemore

GMC
6120 Powers Ferry Road NW, Suite 200
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ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
90% Submittal	11.27.2024
Bid Set	03.19.2025

Project Manager: CW
Engineer: GS
Designer: GS
Drawn By:

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

TITLE SHEET

G-001

GENERAL	
SHT #	SHEET TITLE
G-001	TITLE SHEET
G-002	DRAWING INDEX
G-003	DRAWING INDEX
G-004	ABBREVIATIONS
G-005	GENERAL NOTES, LEGENDS, & SYMBOLS
G-006	PROCESS FLOW DIAGRAM
G-007	HYDRAULIC PROFILE (1 OF 2)
G-008	HYDRAULIC PROFILE (2 OF 2)
G-009	PROCESS PIPING SCHEDULE
G-011	PROCESS DESIGN CRITERIA

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I-102	P&ID - INFLUENT SCREENS
I-103	P&ID - GRIT REMOVAL
I-211	P&ID - EQUALIZATION BASIN
I-221	P&ID - FLOW CONTROL VALVE VAULT
I-301	P&ID - AERATION BASIN
I-401	P&ID - CLARIFIERS
I-402	P&ID - RAS/WAS PUMP STATION
I-501	P&ID - FILTERS
I-601	P&ID - UV DISINFECTION
I-602	P&ID - PLANT REUSE WATER PUMP STATION & POST AERATION
I-701	P&ID - AEROBIC DIGESTER
I-702	P&ID - DIGESTER BLOWERS
I-711	P&ID - BELT FILTER PRESS
I-801	P&ID - YARD DRAIN PUMP STATION
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I-803	P&ID - CHEMICAL FEED - POLYALUMINUM CHLORIDE
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I-902	INSTRUMENTATION DETAILS
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SHT #	SHEET TITLE
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SHT #	SHEET TITLE
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B-004	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-005	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-006	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-007	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-008	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-009	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-010	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-011	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-012	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-013	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
B-014	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
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B-016	CIVIL SITE PLAN GEOTECHNICAL EXPLORATION
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SHT #	SHEET TITLE
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C-607	ES & PC STANDARD DETAILS
C-608	ES & PC STANDARD DETAILS
C-609	ES & PC STANDARD DETAILS
C-610	ES & PC STANDARD DETAILS
C-611	ES & PC STANDARD DETAILS
C-612	ES & PC STANDARD DETAILS
C-613	ES & PC STANDARD DETAILS
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C-905	CIVIL - CIVIL SITE DETAILS
C-906	CIVIL - CIVIL SITE DETAILS
C-907	CIVIL - CIVIL SITE DETAILS
C-908	CIVIL - CIVIL SITE DETAILS
C-909	CIVIL - CIVIL SITE DETAILS
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SHT #	SHEET TITLE
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CU-314	CIVIL SITE PLAN - INFFLUENT FORCE MAIN STATION 0+00 TO 11+00
CU-315	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 11+00 TO 22+00
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CU-317	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 33+00 TO 44+00
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CU-319	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 53+00 TO 63+50
CU-320	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 63+50 TO 74+50
CU-321	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 74+50 TO 85+50
CU-322	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 85+50 TO 96+50
CU-323	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 96+50 TO 107+00
CU-324	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 95+50 TO 110+00
CU-325	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 114+21 TO HARDEN BRIDGE RD.
CU-401	WATER MAIN LAYOUT (HAGGARD RD.) STA. 0+00 TO 27+10
CU-605	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
CU-606	ES & PC GENERAL NOTES, LEGENDS & SCHEDULE
CU-607	ES & PC STANDARD DETAILS
CU-608	ES & PC STANDARD DETAILS
CU-609	ES & PC STANDARD DETAILS
CU-610	ES & PC STANDARD DETAILS
CU-611	ES & PC STANDARD DETAILS
CU-612	ES & PC STANDARD DETAILS
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CU-615	WATERSHED MAP, DRAINAGE AREA & MONITORING LOCATIONS
CU-616	SOILS MAP
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CU-618	FEMA FLOODPLAIN MAP
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CU-901	STANDARD DETAILS
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CU-903	STANDARD DETAILS
CU-904	STANDARD DETAILS

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S-310	ORBAL AERATION - SECTIONS
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S-712	BLOWERS BUILDING - SECTIONS
S-721	DEWATERIING BUILDING - FOUNDATION PLAN
S-722	DEWATERIING BUILDING - ROOF FRAMING PLAN
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S-724	DEWATERIING BUILDING - SECTIONS
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SHT #	SHEET TITLE
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A-004	BLOWER BUILDING - LIFE SAFETY PLAN
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A-103	ADMINISTRATION & LAB BUILDING - ENLARGED FLOOR PLAN
A-104	ADMINISTRATION & LAB BUILDING - ENLARGED FLOOR PLAN
A-105	ADMINISTRATION & LAB BUILDING - EXTERIOR ELEVATIONS
A-106	ADMINISTRATION & LAB BUILDING - INTERIOR ELEVATIONS
A-107	ADMINISTRATION & LAB BUILDING - INTERIOR ELEVATIONS
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A-110	ADMINISTRATION & LAB BUILDING - SCHEDULES
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A-712	BLOWER BUILDING - ELEVATION
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A-714	BLOWER BUILDING - SCHEDULES
A-715	BLOWER BUILDING - DETAILS
A-721	DEWATERING BUILDING - PLAN
A-722	DEWATERING BUILDING - ROOF PLAN
A-723	DEWATERING BUILDING - ELEVATION
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D-102	INFLUENT PUMP STATION - SECTION & DETAILS
D-111	INFLUENT FLOW METER VAULT - PLAN & SECTION
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D-122	HEADWORKS - UPPER PLAN
D-123	HEADWORKS - SECTIONS
D-124	HEADWORKS - SECTIONS
D-125	HEADWORKS - SECTIONS
D-201	EQUALIZATION BASIN - PLAN, SECTION, & DETAILS
D-211	FLOW CONTROL VAULT - PLAN & SECTION
D-301	ORBAL AERATION - LOWER PLAN
D-302	ORBAL AERATION - UPPER PLAN
D-303	ORBAL AERATION - CENTER ISLAND PLAN & SECTIONS
D-304	ORBAL AERATION - INFLUENT PIPING PLAN & SECTIONS
D-305	ORBAL AERATION - EFFLUENT PIPING PLAN & SECTIONS
D-306	ORBAL AERATION - RETURN SLUDGE PLAN & SECTIONS
D-307	AERATION BASIN - DRIVE PLAN & SECTIONS
D-308	ORBAL AERATION SECTIONS
D-401	CLARIFIERS - PLAN
D-402	CLARIFIERS - SPLITTER BOX DETAIL

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STATE OF GEORGIA CERTIFICATE OF AUTHORIZATION GOODWYN, MILLS & CAWOOD, LLC No. PEF007898 Exp. 06.30.2026

ISSUE	DATE
30% Submittal	05.30.2024
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COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE051452 GRAHAM S. SIZEMORE 03.19.2025

DRAWING INDEX

G-002

PROCESS	
SHT #	SHEET TITLE
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D-404	CLARIFIERS - EFFLUENT DETAIL
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D-501	TERTIARY FILTERS - LOWER PLAN & ENLARGED PLAN
D-502	TERTIARY FILTERS - UPPER PLAN & ROOF PLAN
D-503	TERTIARY FILTERS - SECTIONS
D-504	TERTIARY FILTERS - SECTIONS
D-601	ULTRAVIOLET DISINFECTION - PLANS & SECTIONS
D-611	PLANT REUSE WATER PUMP STATION AND POST AERATION - LOWER PLAN
D-612	PLANT REUSE WATER PUMP STATION AND POST AERATION - UPPER PLAN
D-613	PLANT REUSE WATER PUMP STATION AND POST AERATION - PIPING DETAIL PLAN
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D-615	PLANT REUSE WATER PUMP STATION AND POST AERATION - SECTIONS
D-701	AEROBIC DIGESTER - PLAN & SECTION
D-702	AEROBIC DIGESTER - UPPER PLAN & SECTION
D-703	AEROBIC DIGESTER - PIPING PLAN & SECTION
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D-721	DEWATERING BUILDING - PLAN
D-722	DEWATERING BUILDING - SECTIONS
D-723	DEWATERING BUILDING - SECTIONS
D-724	DEWATERING BUILDING - SECTIONS
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D-902	PROCESS PIPE SUPPORT DETAILS
D-903	PROCESS PIPE SUPPORT DETAILS
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D-905	PROCESS PIPE STRUCTURAL ATTACHMENTS DETAILS (2 OF 2)
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D-907	PROCESS DETAILS (2 OF 2)
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SHT #	SHEET TITLE
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E-003	ELECTRICAL DETAILS
E-004	ELECTRICAL DETAILS
E-005	ELECTRICAL DETAILS
E-006	ELECTRICAL DETAILS
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E-111	DRUM SCREEN UPPER ELECTRICAL PLAN
E-112	DRUM SCREEN LOWER ELECTRICAL PLAN
E-113	GRIT REMOVAL ELECTRICAL PLAN
E-114	HEADWORKS LIGHTNING PROTECTION PLAN
E-115	DRUM SCREEN ELECTRICAL SCHEMATICS
E-116	GRIT REMOVAL ELECTRICAL SCHEMATICS
E-201	EQ BASIN & FLOW CONTROL VALVE ELECTRICAL PLANS
E-202	EQ BASIN & FLOW CONTROL VALVE ELECTRICAL SCHEMATIC
E-301	AERATION BASIN ELECTRICAL PLAN
E-302	AERATION BASIN ELECTRICAL SCHEMATIC
E-401	CLARIFIERS ELECTRICAL PLAN
E-402	CLARIFIERS ELECTRICAL SCHEMATIC
E-403	RAS/WAS PUMP STATION ELECTRICAL PLAN
E-404	RAS/WAS PUMP STATION ELECTRICAL SCHEMATIC
E-405	RAS/WAS PUMP STATION ELECTRICAL SCHEMATIC
E-501	FILTERS ELECTRICAL BOTTOM PLAN
E-502	FILTERS ELECTRICAL TOP PLAN
E-503	FILTERS ELECTRICAL SCHEMATIC
E-601	UV DISINFECTION ELECTRICAL PLAN
E-602	UV DISINFECTION ELECTRICAL SCHEMATICS
E-603	UV DISINFECTION ELECTRICAL SCHEMATICS
E-604	PLANT REUSE PS & POST AERATION ELECTRICAL PLAN
E-605	PLANT REUSE PS ELECTRICAL SCHEMATIC
E-606	POST AERATION ELECTRICAL SCHEMATIC
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E-711	BLOWER BUILDING LIGHTING PLAN
E-712	BLOWER BUILDING ELECTRICAL PLAN
E-713	BLOWER BUILDING ELECTRICAL SCHEMATICS
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E-722	DEWATERING BUILDING STORAGE ROOM ELECTRICAL PLAN
E-723	DEWATERING BUILDING DEWATERING ROOM ELECTRICAL PLAN
E-724	DEWATERING BUILDING ELECTRICAL SCHEMATIC
E-801	YARD DRAIN PUMP STATION ELECTRICAL PLAN
E-802	CHEMICAL TANK FARM ELECTRICAL PLAN
E-803	CHEMICAL TANK FARM ELECTRICAL SCHEMATIC
E-901	ADMIN BUILDING LIGHTING PLAN
E-902	ADMIN BUILDING ELECTRICLA PLAN
E-903	ADMIN BUILDING ELECTRICAL SCHEMATIC

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STATE OF GEORGIA — NOT VALID WITHOUT ORIGINAL SIGNATURE AND SEAL
GOODWYN MILLS CAWOOD LLC
No. PE0007886
Exp.06.30.2026
CERTIFICATE OF AUTHORIZATION

1" 0" 5" 1"

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No. PE051452
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GRAHAM S. SIZEMORE

DRAWING INDEX

G-003

COMMON ABBREVIATIONS

A	AIR	DISTR	DISTRIBUTION	HP	HORSEPOWER	OD	OUTSIDE DIAMETER	RR	RAILROAD	VERT	VERTICAL
AB	ANCHOR BOLT	DL	DEAD LOAD	HR	HOUR	OF	OUTSIDE FACE OR OVERFLOW	RTN	RETURN	VP	VENT PIPE
AC	AIR CONDITIONING	DMJ	DUCTILE MECHANICAL JOINT	HS	HIGH STRENGTH	OPNG	OPENING	SALV	SALVAGE	VTR	VENT THROUGH ROOF
ACP	ASPHALTIC CONCRETE PAVING	DN	DOWN	HVAC	HEATING, VENTILATION, AIR CONDITIONING	OPP	OPPOSITE	SCFM	STANDARD CUBIC FEET PER MINUTE	W/	WITH
ADDL	ADDITIONAL	DWG	DRAWING	HW	HOT WATER	OPT	OPTIONAL	SCH	SCHEDULE	W/O	WITHOUT
ADDM	ADDENDUM	EA	EACH	HWL	HIGH WATER LEVEL	PC	POINT OF CURVE OF PORTLAND CEMENT	SCN	SCREENINGS	WC	WATER CLOSET
ADJ	ADJUSTABLE	ECC	ECCENTRIC	HWY	HIGHWAY	P&C	PIN AND CAP	SDR	STANDARD DIMENSION RATIO	WCO	WALL CLEANOUT
AFF	ABOVE FINISHED FLOOR	EF	EACH FACE OR ELECTRICAL FAN	HYD	HYDRANT	PCO	PRESSURE CLEAN OUT	SECT	SECTION	WD	WIDTH OR WOOD
AFS	AIR FLOW SWITCH	EJ	EXPANSION JOINT	ID	INSIDE DIAMETER	PCP	PROGRESSIVE CAVITY PUMP	SHLDR	SHOULDER	WDW	WINDOW
AHU	AIR HANDLING UNIT	EL	ELEVATION	IF	INSIDE FACE	PCR	POINT OF CURVE RETURN	SHT	SHEET	WF	WIDE FLANGE
AL	ALUMINUM	ELEC	ELECTRICAL	INCL	INCLUDED	PE	PLAIN END	SIM	SIMILAR	WH	WALL HYDRANT
ALT	ALTERNATE	ENGR	ENGINEER	INCR	INCREASER	PERM	PERMANENT	SOTE	STANDARD OXYGEN TRANSFER EFFICIENCY	WL	WIND LOAD
APPROX	APPROXIMATE	EOA	EDGE OF ASPHALT	INF	INFLUENT	PERP	PERPENDICULAR	SP	SPACE (ING)	WP	WEIR PLATE
ARCH	ARCHITECT(URAL)	EOP	EDGE OF PAVEMENT	INSTL	INSTALLATION	PI	POINT OF INTERSECTION	SPEC	SPECIFICATION	WS	WETTED SURFACE
ARV	AIR RELIEF VALVE	EQ	EQUAL	INSTR	INSTRUMENT	PL	PLATE OR PROPERTY LINE	SQ	SQUARE	WT	WEIGHT
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	EQUIP	EQUIPMENT	INSUL	INSULATION	PLBG	PLUMBING	SQ FT	SQUARE FOOT	WWF	WELDED WIRE FABRIC
ASPH	ASPHALT	EQUIV	EQUIVALENT	INV	INVERT	PLYWD	PLYWOOD	SQ IN	SQUARE INCH	WWTP	WASTEWATER TREATMENT PLANT
ASSY	ASSEMBLY	ESMT	EASEMENT	INT	INTERIOR	PNT	PAINT	SQ YD	SQUARE YARD	X SECT	CROSS SECTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EST	ESTIMATE	INV EL	INVERT ELEVATION	POC	POINT ON VERTICAL CURVE	SRT	SOLIDS RETENTION TIME	XMR	TRANSFORMER
ATM	ATMOSPHERE	EUH	ELECTRIC UNIT HEATER	ISA	INSTRUMENT SOCIETY OF AMERICA	POLY	POLYETHYLENE	SST	STAINLESS STEEL	YCO	YARD CLEANOUT
ATS	AUTOMATIC TRANSFER SWITCH	EW	EACH WAY	JST	JOIST	PPM	PARTS PER MILLION	SST BT	STAINLESS STEEL BOLT	YH	YARD HYDRANT
AUTO	AUTOMATIC	EWS	EQUIPMENT WATER STATION	JTS	JOINTS	PREFAB	PREFABRICATED	ST	STREET		
AVS	AUTOMATIC VALVE STATION	EXP JT	EXPANSION JOINT	KO	KNOCKOUT	PREFIN	PREFINISHED	STA	STATION		
AWG	AMERICAN WIRE GAGE	EXST	EXISTING	KWY	KEYWAY	PRELIM	PRELIMINARY	STD	STANDARD		
BE	BELL END	EXST GR	EXISTING GRADE	L	LEFT OR LITER	PREP	PREPARATION	STL	STEEL		
BF	BOTTOM FACE	EXT	EXTERIOR	LAB	LABORATORY	PROJ	PROJECT	STL JST	STEEL JOIST		
BFD	BUTTERFLY DAMPER	F/F	FACE TO FACE	LAV	LAVATORY	PROP	PROPERTY	STL PL	STEEL PLATE		
BFV	BUTTERFLY VALVE	FA	FOUL AIR	LB(S)	POUND(S)	PRS	PRESSURE REDUCING STATION	STRUCT	STRUCTURAL		
BLDG	BUILDING	FAD	FOUL AIR DUCT	LEL	LOW EXPLOSIVE LIMIT	PRV	PRESS. REDUCING VALVE OR PRESS. RELIEF VALVE	SV	SOLENOID VALVE		
BLK	BLOCK	FCA	FLANGE COUPLING ADAPTER	LF	LINEAR FOOT	PS	PIPE SUPPORT	SVC	SERVICE		
BLM	BUREAU OF LAND MANAGEMENT	FCS	FLUSH CONTROL STATION	LL	LIVE LOAD OR LOOSE LINTEL	PSF	POUNDS PER SQUARE FOOT	SWD	SIDE WATER DEPTH		
BM	BENCH MARK	FD	FLOOR DRAIN	LOC	LOCATION	PSI	POUNDS PER SQUARE INCH	SYMM	SYMMETRICAL		
BOD	BIOCHEMICAL OXYGEN DEMAND	FDN	FOUNDATION	LP	LOW PRESSURE OR LIGHT POLE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	SYS	SYSTEM		
BOT	BOTTOM	FES	FLARED END SECTION	LR	LONG RADIUS	PSIG	POUNDS PER SQUARE INCH GAGE	T&B	TOP AND BOTTOM		
BU	BELL UP	FF EL	FINISH FLOOR ELEVATION	LS	LICENSED SURVEYOR	PSV	PRESSURE SUSTAINING VALVE	T&G	TONGUE AND GROOVE		
BV	BALL VALVE	FH	FIRE HYDRANT	LT	LIGHT	PT	POINT OR POINT OF TANGENCY	T&P	TEMPERATURE AND PRESSURE		
C/C	CENTER TO CENTER	FIN	FINISH	LT WT	LIGHTWEIGHT	PV	PLUG VALVE	T	TEE		
CCP	CONCRETE CYLINDER PIPE	FIN FL	FINISH FLOOR	LWL	LOW WATER LEVEL	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE	TB	TOP OF BEAM		
CCW	COUNTER CLOCKWISE	FIN GR	FINISH GRADE	MAINT	MAINTENANCE	PVG	PAVING	TBM	TEMPORARY BENCH MARK		
CFM	CUBIC FEET PER MINUTE	FL	FLANGE	MAN	MANUAL	PVI	POINT OF VERTICAL CURVE INTERSECTION	TE	TOP ELEVATION		
CHKV	CHECK VALVE	FLR	FLOOR	MATL	MATERIAL	PVMT	PAVEMENT	TEMP	TEMPORARY		
CIP	CAST IRON PIPE	FPM	FEET PER MINUTE	MAX	MAXIMUM	Q AVG	AVERAGE DAILY FLOW	TFA	TO FLOOR ABOVE		
CISP	CAST IRON SOIL PIPE	FPS	FEET PER SECOND	MCC	MOTOR CONTROL CENTER	Q MAX	MAXIMUM DAILY FLOW	TFB	TO FLOOR BELOW		
CJ	CONSTRUCTION JOINT	FRP	FIBERGLASS REINFORCED PLASTIC	MECH	MECHANICAL	Q PEAK	PEAK HOUR FLOW	TFF	TOP OF FINISH FLOOW		
CL	CENTER LINE OR CHAIN LINK	FT	FEET	MED	MEDIUM	QTR	QUARTER	TH	TEST HOLE		
CLR	CLEAR	FTG	FOOTING OR FITTING	MFM	MAGNETIC FLOW METER	QTY	QUANTITY	THD	THREAD (ED)		
CMP	CORRUGATED METAL PIPE	G	GAS	MFR	MANUFACTURER	RAD	RADIUS	THK	THICK		
CMU	CONCRETE MASONRY UNIT	GA	GAUGE	MG	MILLION GALLONS OR MILLIGRAMS	RC	REINFORCED CONCRETE	TJ	TOP OF JOIST		
CO	CLEAN OUT	GAL	GALLON	MGD	MILLION GALLONS PER DAY	RCP	REINFORCED CONCRETE PIPE	TOA	TOP OF ASPHALT		
CONC	CONCRETE	GALV	GALVANIZED	MGMT	MANAGEMENT	RD	ROOF DRAIN	TOC	TOP OF CONCRETE OR TOP OF CURB		
CONN	CONNECTION	GND	GROUND	MH	MANHOLE	RECT	RECTANGULAR	TOE	THREADED ONE END		
CONSTR	CONSTRUCTION	GPD	GALLONS PER DAY	MIN	MINIMUM	RED	REDUCER	TOF	TOP OF FOOTING		
CONT	CONTINUOUS(ATION)	GPM	GALONS PER MINUTE	MISC	MISCELLANEOUS	RE:	REFER TO	TOS	TOP OF STEEL		
COR	CORNER	GR	GRIT	MJ	MECHANICAL JOINT	REF	REFERENCE	TOW	TOP OF WALL		
CPLG	COUPLING	GRC	GALVANIZED RIGID CONDUIT	MNPT	MALE NATIONAL PIPE THREAD	REHAB	REHABILITATION	TP	TOP OF PAVEMENT		
CPVC	CHLORINATED POLYVINYL CHLORIDE	GSP	GALVANIZED STEEL PIPE	MO	MASONRY OPENING	REINF	REINFORCE (D) (ING) (MENT)	TSL	TOP OF SLAB		
CTR	CENTER	GV	GATE VALVE	MRGB	MOISTURE RESISTANT GYPSUM WALL BOARD	REQD	REQUIRED	TSS	TOTAL SUSPENDED SOLIDS		
CV	CHECK VALVE	GW	GROUNDWATER	MTG	MOUNTING	RESIL	RESILIENT	TYP	TYPICAL		
CW	COLD WATER	GWB	GYPSUM WALL BOARD	NA	NOT APPLICABLE	RFCA	RESTRAINED FLANGED COUPLING ADAPTER	UBC	UNIFORM BUILDING CODE		
CY	CUBIC YARDS	GYP	GYPSUM	NIC	NOT IN CONTRACT	RH	RIGHT HAND	UGE	UNDERGROUND ELECTRIC		
DBIO	DEWATERED BIOSOLIDS	HB	HOSE BIBB	NPL	NAMEPLATE	RM	ROOM	ULT	ULTIMATE		
DEMO	DEMOLITION	HDWL	HEADWALL	NPT	NATIONAL PIPE THREAD	RO	ROUGH OPENING	UN	UNION		
DIA	DIAMETER	HNDRL	HAND RAIL	NRS	NON-RISING STEM	ROW	RIGHT OF WAY	UNGD	UNDERGROUND		
DIM	DIMENSION	HNDWL	HAND WHEEL	NTS	NOT TO SCALE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	VB	VALVE BOX		
DIP	DUCTILE IRON PIPE	HORIZ	HORIZONTAL	OC	ON CENTER	RPM	REVOLUTIONS PER MINUTE	VCP	VITRIFIED CLAY PIPE		

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STATE OF GEORGIA — GOODWYN MILLS CAWOOD, LLC — No. PEF007898 — Exp.06.30.2026 — CERTIFICATE OF AUTHORIZATION

ISSUE	DATE
30% Submittal	05.30.2024
60% Submittal	08.29.2024
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Bid Set	03.19.2025

Project Manager: CW
Engineer: GS
Designer: GS
Drawn By:

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

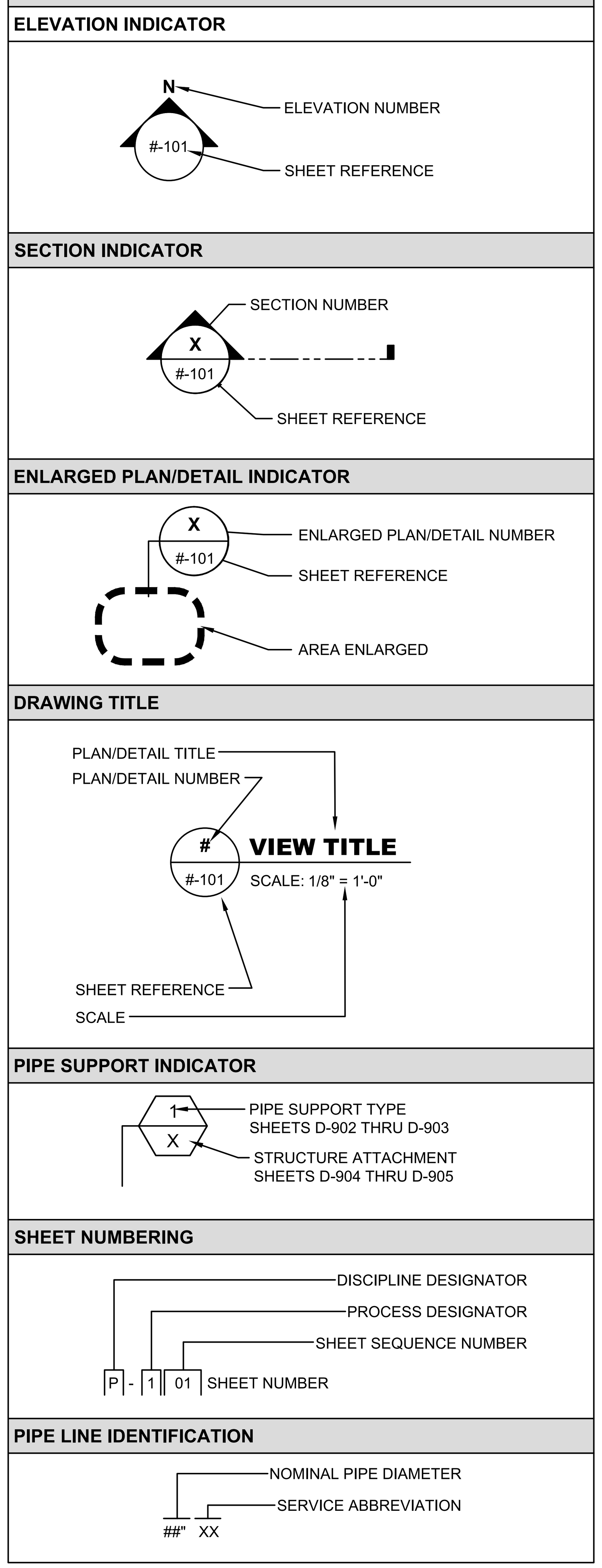
CATL230033

GEORGIA REGISTERED PROFESSIONAL ENGINEER — No. PE051452 — 03.19.2025 — GRAHAM S. SIZEMORE

ABBREVIATIONS

G-004

GRAPHICS LEGEND



PROCESS DESIGNATORS

PROCESS SHEETS (WASTEWATER)	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
PRELIMINARY TREATMENT	1
PRIMARY TREATMENT	2
BIOLOGICAL TREATMENT	3
SECONDARY TREATMENT	4
TERTIARY TREATMENT	5
DISINFECTION AND EFFLUENT PUMPING	6
SLUDGE STORAGE AND PROCESSING	7
MISCELLANEOUS SYSTEMS	8
DETAILS / SCHEDULES	9

CIVIL DESIGNATORS

CIVIL	DESIGNATOR
NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0
SITE PLAN AND GEOMETRIC CONTROLS	1
GRADING AND DRAINAGE	2
UTILITIES/YARD PIPING	3
ROAD PLAN AND PROFILES (IF REQUIRED)	4
ROAD CROSS SECTIONS (IF REQUIRED)	5
SEDIMENT AND EROSION CONTROL	6
RESERVED	7
RESERVED	8
DETAILS / SCHEDULES	9

OWNER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
CITY MANAGER	MATTHEW HAILEY	706.423.5125	MHAILEY@COMMERCEGA.GOV
WWTP SUPERINTENDENT	TAD EDMONSON	770.374.3288	TEDMONSON@COMMERCEGA.GOV

CONTRACTOR

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	TBD		
SUPERINTENDENT	TBD		

ENGINEER

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	CHARLES WELCH	770.952.2481 EXT. 103	CHARLES.WELCH@GMCNETWORK.COM
ENGINEER	GRAHAM SIZEMORE, PE	770.952.2481 EXT. 143	GRAHAM.SIZEMORE@GMCNETWORK.COM
INSPECTOR	TONY VAN DE RYT	770.952.2481 EXT. 110	TONY.VANDERYT@GMCNETWORK.COM

PIPE SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
EXISTING BURIED PIPE		
EXISTING ABOVE GRADE PIPE		
NEW BURIED PIPE		
NEW ABOVE GRADE PIPE		
WELDED JOINT		
FLANGED JOINT		
FLANGED ADAPTOR		
FLANGED COUPLING		
MECHANICAL JOINT		
JOINT		
EXPANSION JOINT		

HATCHING LEGEND

DESCRIPTION	EXISTING	PROPOSED
ASPHALT PAVING (PLAN)		
ALUMINUM GRATING		
CONCRETE (ELEVATION)		
CONCRETE (PLAN)		
CONCRETE (SECTION)		
CRUSHED STONE (SECTION)		
EARTH OR BACKFILL (SECTION)		
GRAVEL DRIVE (PLAN)		
GROUT FILL (PLAN & SECTION)		
LAKE, RIVER OR POND (PLAN)		
REMOVAL OR DEMOLITION (PLAN & SECTION)		
UNPAVED DRIVE (PLAN)		

DISCIPLINE DESIGNATORS

DISCIPLINE	DESIGNATOR
GENERAL	G
HAZARDOUS MATERIALS	H
INSTRUMENTATION	I
DEMOLITION	X
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL	C
LANDSCAPE	L
STRUCTURAL	S
ARCHITECTURAL	A
FIRE PROTECTION	F
MECHANICAL	M
PLUMBING	P
PROCESS	D
ELECTRICAL	E

GENERAL NOTES

1. THE CONTRACTOR IS EXPECTED TO CAREFULLY EXAMINE THE PLANS, PROPOSAL AND SITE OF THE WORK. THEREFORE, IT WILL BE ASSUMED THAT THE BIDDER HAS SATISFIED HIMSELF AS TO THE CONDITIONS TO BE ENCOUNTERED IN REGARDS TO THE CHARACTER, QUALITY, AND QUANTITIES OF WORK TO BE PERFORMED AND MATERIALS TO BE FURNISHED, AND AS TO THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT. THE SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.
2. THE CONTRACTOR IS REQUIRED TO MAINTAIN AN AS-BUILT SET OF DRAWINGS DURING PROJECT CONSTRUCTION. THE COMPLETE AS-BUILT MAP WILL CONTAIN ALL INSTALLED ELECTRICAL, STRUCTURAL ENTITIES, LINES, VALVES, METERS, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE GROUND STRUCTURES.
3. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE, LOCATION, AND DEPTH OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER PER SPECIFICATION 1030.
5. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE CIVIL DRAWINGS AND THE ARCHITECTURAL/STRUCTURAL DRAWINGS, THE ARCHITECTURAL/STRUCTURAL DRAWINGS SHALL HAVE PRECEDENCE. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY CONFLICT IN THE PLANS/SPECS FOR CLARIFICATION PRIOR TO BID. SHOULD CONFLICTING DOCUMENTS NOT BE CLARIFIED AT THE REQUEST OF THE BIDDING CONTRACTOR, THE MORE COSTLY ALTERNATIVE AS IDENTIFIED IN THE PLAN & SPECS SHALL BE INCLUDED IN THE PRICE BID.
6. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT, INCLUDING, BUT NOT LIMITED TO, PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH "SPILL PREVENTION, CONTROL & COUNTERMEASURE" REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH STATE & FEDERAL AGENCY REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS & WATERS OF THE STATE.

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Designer:	GS
Drawn By:	

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

CATL230033

GEORGIA REGISTERED No. PE051452 PROFESSIONAL 03.19.2025 ENGINEER GRAHAM S. SIZEMORE

GENERAL NOTES, LEGENDS, & SYMBOLS

G-005

FOUNDATIONS:

1. THE FOUNDATION SUBGRADE AND SHALL BE PREPARED IN ACCORDANCE WITH THE REPORT OF GEOTECHNICAL EXPLORATION BY GMC, LLC. DATED FEBRUARY 20, 2025 (GMC PROJ. NO. GATL240047). FOR THE PURPOSE OF THESE STRUCTURAL DRAWINGS, SELECT INFORMATION HAS BEEN EXTRACTED FROM THE REFERENCED GEOTECHNICAL REPORT AND NOTED BELOW; HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, READ, AND FOLLOW ALL RECOMMENDATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT.
2. SHALLOW FOUNDATIONS ARE SIZED FOR A SOIL BEARING VALUE OF 2000 PSF. FOUNDATION SHALL EXTEND TO A MINIMUM OF FROST PENETRATION DEPTH, TO A DEPTH WHERE SOIL MOISTURE CONTENT DOES NOT FLUCTUATE, A MINIMUM DEPTH OF 12" INTO ORIGINAL SOIL AND A MINIMUM DEPTH TO ACHIEVE 2000 PSF BEARING CAPACITY (WHICHEVER IS GREATER). NOTIFY THE ENGINEER SHOULD ANY UNUSUAL SOIL CONDITIONS BE ENCOUNTERED.

33. STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" LOOSE MEASURE AND DENSIFIED TO 98% (MINIMUM) STANDARD PROCTOR DENSITY (ASTM D698).

4. BELOW GRADE WALLS ARE DESIGNED FOR AN "AT REST" EQUIVALENT FLUID DENSITY OF 90 LBS/FT^3. BACKFILL SHALL CONSIST OF USC SM, SC, SP, SW, GW, OR GP. THE BACKFILL SHALL EXTEND UPWARD FROM THE TOP OF THE FOOTING ON A LINE 30 DEGREES FROM THE VERTICAL. SAMPLES OF ALL BACKFILL MATERIAL SHALL BE EVALUATED BY A THIRD-PARTY TESTING AGENCY FOR USE AS BACKFILL.

CONCRETE:

1. SUBMITTALS PER SPECIFICATIONS.
2. COMPLY WITH ASTM C 94; ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 350 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES"; AND CRSI'S "MANUAL OF STANDARD PRACTICE."
3. DEFORMED REINFORCING BARS: ASTM A615, GRADE 60.
4. WELDED WIRE FABRIC: ASTM A 185, FLAT SHEETS.
5. PORTLAND CEMENT: ASTM C 150, TYPE I OR II.
6. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28 DAY COMPRESSIVE STRENGTH:
   A. SLABS ON GRADE AND PIPE ENCASEMENT--- 3000 PSI
   B. LIQUID RETAINING AND CONTAINMENT STRUCTURES ---------------------------- 4000 PSI
7. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66, ACI 318-11, AND ACI 315-99, OR LATEST EDITIONS.
8. REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318. REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE AUTHORIZED. BENDING MAY BE ACCOMPLISHED IN THE FIELD OR AT THE MILL. BARS NOT TO BE BENT AFTER EMBEDDED IN CONCRETE. REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.
9. ALL REINFORCING BAR SPLICE LENGTHS AND LOCATIONS, EMBEDMENT LENGTHS, HOOKS, ETC. SHALL BE MADE AS SHOWN ON THE DRAWINGS, DEVIATIONS SHALL NOT BE MADE UNLESS OTHERWISE AUTHORIZED.
10. PROVIDE CLASS B LAP SPLICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS. TENSION AND COMPRESSION REINFORCEMENT SPLICES SHALL BE MADE AS FOLLOWS:

	>12" FRESH CONCRETE BELOW	OTHER BARS
#4 BARS	32 INCHES	25 INCHES
#5 BARS	40 INCHES	31 INCHES
#6 BARS	48 INCHES	37 INCHES
#7 BARS	70 INCHES	54 INCHES
#8 BARS	80 INCHES	63 INCHES
#9 BARS	91 INCHES	70 INCHES
#10 BARS	103 INCHES	80 INCHES

11. MINIMUM CONCRETE REINFORCING COVER REQUIREMENTS:
    CONCRETE CAST AGAINST EARTH -- 3"
    FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
    #6 BARS AND LARGER --- 2"
    #5 BARS AND SMALLER -- 1 1/2"
12. CONCRETE SLABS ON GRADE SHALL BE REINFORCED AS NOTED ON PLANS.
13. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR BOLTS AND WELD PLATES SHALL BE ACCURATELY PLACED IN THE POSITIONS SHOWN AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
14. REFER TO DRAWINGS OF OTHER TRADES FOR PENETRATIONS IN CONCRETE FLOORS, REQUIRING SLEEVES OR OTHER EMBEDDED ITEMS NOT SHOWN.
15. CONSTRUCTION JOINTS FOR CONTINUOUS WALLS / FOOTINGS SHALL CONSIST OF BULK-HEAD FORM WITH FOOTING REINFORCING PROJECTING THROUGH FORM 3 FEET OR CLASS B LAP SPLICE FOR LONGITUDINAL BARS, WHICHEVER IS GREATER.
16. CROSS REFERENCE ALL CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND LOCATIONS NOT SPECIFICALLY SHOWN. INFORM THE COTR IN WRITING OF MISSING INFORMATION OR CONFLICTS.
17. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE OR DURING PLACEMENT UNLESS APPROVED BY THE ENGINEER.
18. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING AND CURING.
19. FORM 1/8" WIDE CONTRACTION JOINTS WITH POWER SAWS WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE CONCRETE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION JOINTS. SEE DETAILS FOR ADDITIONAL INFORMATION.
20. BEGIN CURING UNFORMED CONCRETE AFTER FINISHING. KEEP LIQUID RETAINING CONCRETE CONTINUOUSLY MOIST FOR AT LEAST 7 DAYS. MEMBRANE FORMING CURING COMPOUND MAY BE USED ON NON-LIQUID RETAINING CONCRETE. CONTRACTOR SHALL VERIFY COMPOUND IS COMPATIBLE WITH ALL FLOOR COVERINGS AND COATINGS.
21. PROTECT CONCRETE FROM DAMAGE. REPAIR CONCRETE SURFACE DEFECTS WITH METHODS AND MATERIALS APPROVED BY COTR.
22. ANCHORING ADHESIVE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT PRODUCT DATA FOR EACH APPLICATION FOR REVIEW. USE ONE OF THE FOLLOWING PRODUCTS:
    A. HILTI HY 150 INJECTION MAX ADHESIVE ANCHORING SYSTEM
    B. RAMSET / RED HEAD EPCON CERAMIC 6 EPOXY ANCHORING SYSTEM
    C. SIMPSON STRONG TIE "AT" OR "SET" DEPENDING ON APPLICATION
    D. ADDITIONALLY, PROVIDE SCREEN TUBE ANCHORS IN HOLLOW CORE MASONRY

MASONRY:

1. CONCRETE MASONRY UNITS SHALL BE HOLLOW LOADBEARING CONFORMING TO ASTM C 90 ALL LOCATIONS.
2. MORTAR SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C270.
3. GROUT SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476.
4. TYPE M OR S FOR BELOW GROUND LEVEL AND EITHER TYPE N OR S FOR ABOVE GROUND CONFORMING TO ASTM C-270.
   4.3. MINIMUM INDIVIDUAL NET AREA COMPRESSIVE STRENGTH OF SINGLE CMU------------------------------------ 2000 PSI
   4.4. MINIMUM DESIGN STRENGTH OF MASONRY (f'/m)-- 2000 PSI
   4.5. GROUT COMPRESSIVE STRENGTH -- 3000 PSI
5. HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE FABRICATED WITH A SINGLE PAIR OF 9 GAGE SIDE RODS AND 9 GAGE CROSSRODS SPACED NOT MORE THAN 16" O.C. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF SINGLE AND MULTIPLE WIDTH UNIT WALLS.
6. FILLED CELLS INDICATED ON PLAN SHALL BE FILLED WITH GROUT IN LIFTS OF 48" (MAX). TERMINATE LIFT 1-1/2" BELOW BED JOINT TO CREATE SHEAR KEY TO NEXT LIFT.
7. STARTER DOWELS AND EACH ADDITIONAL VERTICAL BAR SHALL BE TIED IN ACCORDANCE WITH TMS SPECIFICATIONS AND LAPPED PER CMU LAP SCHEDULE.
8. "WET SETTING" DOWELS SHALL NOT BE ALLOWED.
9. MASONRY WALLS ARE UNSTABLE AND REQUIRE TEMPORARY CONSTRUCTION BRACING UNTIL INSTALLATION OF PERMANENT CONNECTION. TEMPORARY CONSTRUCTION BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. MASONRY CONTROL JOINTS (M.C.J.) SHALL BE REQUIRED WITH SPACING SHOWN ON ARCHITECTURAL PLAN, MAXIMUM SPACING OF 25' OR 3 TIMES WALL HEIGHT ALONG WALL LENGTH AND 12'-0" MAX FROM WALL CORNERS.

STEEL DECK:

1. TYPICAL ROOF DECK
   1.1. STEEL ROOF DECK SHALL BE 22 GAUGE, TYPE "B" (WIDE RIB) CORRUGATED DECK WHERE INDICATED ON THE ROOF PLAN, WITH THE FOLLOWING MINIMUM PROPERTIES:
      1.1.1. MOMENT OF INERTIA, POSITIVE (Ip): 0.155 in^4/ft
      1.1.2. MOMENT OF INERTIA, NEGATIVE (In): 0.183 in^4/ft
      1.1.3. SECTION MODULUS, POSITIVE (Sp): 0.186 in^3/ft
      1.1.4. SECTION MODULUS, NEGATIVE (Sn): 0.192 in^3/ft
   1.2. THE ROOF DECK SHALL BE INSTALLED AND ANCHORED TO THE SUPPORTING STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND/OR AS INDICATED IN FASTENING PATTERN SCHEDULE ON THESE DRAWINGS (WHICHEVER IS MORE STRINGENT).

STRUCTURAL STEEL

1. W-SECTION SHAPES SHALL CONFORM TO ASTM A992.
2. RECTANGULAR HSS SHALL CONFORM TO ASTM A500 GR. C.
3. ROUND HSS SHALL CONFORM TO ASTM A500 GR. C.
4. STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL CONFORM TO ASTM A36.
5. BOLTS SHALL BE ASTM A-325X.
6. NUTS SHALL BE ASTM A563.
7. WASHERS SHALL BE ASTM F436.
8. STEEL HEADED STUDS SHALL BE ASTM A108.
9. DETAIL, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST AISC STANDARDS AND SPECIFICATIONS.
10. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION)
11. ELECTRODES SHALL BE E70XX.
12. UNLESS OTHERWISE NOTED OR DETAILED, ALL SHEAR CONNECTIONS SHALL BE DESIGNED USING THE APPROPRIATE DATA FROM PART 10 -"DESIGN OF SIMPLE SHEAR CONNECTIONS" FROM THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION. DESIGN END REACTION IS 60% OF TOTAL ALLOWABLE LOAD (60% x Wc) FROM THE ALLOWABLE LOAD OF BEAM TABLE FROM PART 9 - "DESIGN OF CONNECTING ELEMENTS" OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.

STEEL JOISTS AND JOIST GIRDERS

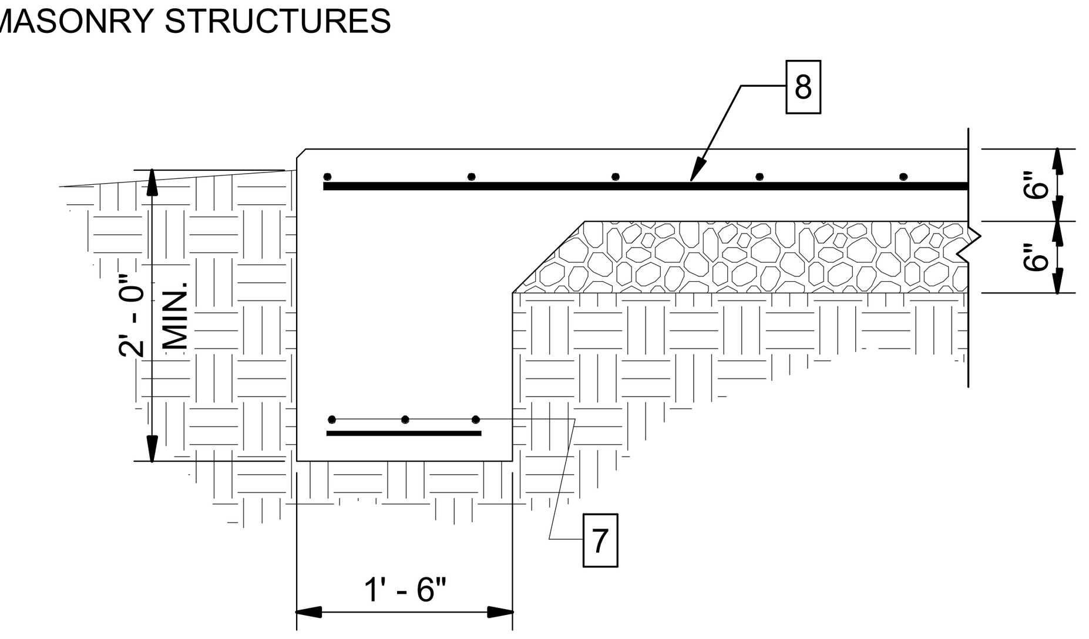
1. STEEL JOIST MANUFACTURER SHALL BE A CURRENT MEMBER OF THE STEEL JOIST INSTITUTE (SJI)
2. STEEL JOISTS AND JOIST GIRDERS SHALL CONFORM TO THE SPECIFICATIONS AND REQUIREMENTS OF THE LATEST EDITION OF THE SJI STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS (K AND LH SERIES) AND JOIST GIRDERS.
3. JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE DESIGN AND SPACING REQUIREMENTS OF THE SJI STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS. UPLIFT BRIDGING AS REQUIRED SHALL BE PROVIDED BY THE JOIST MANUFACTURER AND CLEARLY SHOWN ON THE ERECTION DRAWINGS. BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.
4. PRIOR TO FABRICATION, SUBMIT SHOP AND LAY-OUT DRAWINGS IN SUFFICIENT DETAIL TO DEFINE THE LOCATION OF THE JOISTS, BRIDGING, EMBEDS, OPENINGS, HEADERS AND OTHER ACCESSORIES FOR REVIEW BY THE ENGINEER OF RECORD.

DESIGN LOADS:

LIVE LOADS:	
ELEVATED PLATFORMS	150 PSF
ROOF	20 PSF (REDUCIBLE)
WIND LOADS:	
BASIC WIND VELOCITY	119 MPH (ULT., 3-SEC. GUST)
OCCUPANCY CATEGORY	IV
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENTS	+/- 0.18
SEISMIC LOADS:	
SEISMIC USE GROUP	IV
SEISMIC IMPORTANCE FACTOR (Ie)	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION:	
Ss	0.210
S1	0.088
SITE CLASS	C
SPECTRAL RESPONSE COEFFICIENTS:	
Sds	0.224
Sd1	0.140
SEISMIC DESIGN CATEGORY	D

APPLICABLE CODES AND SPECIFICATIONS:

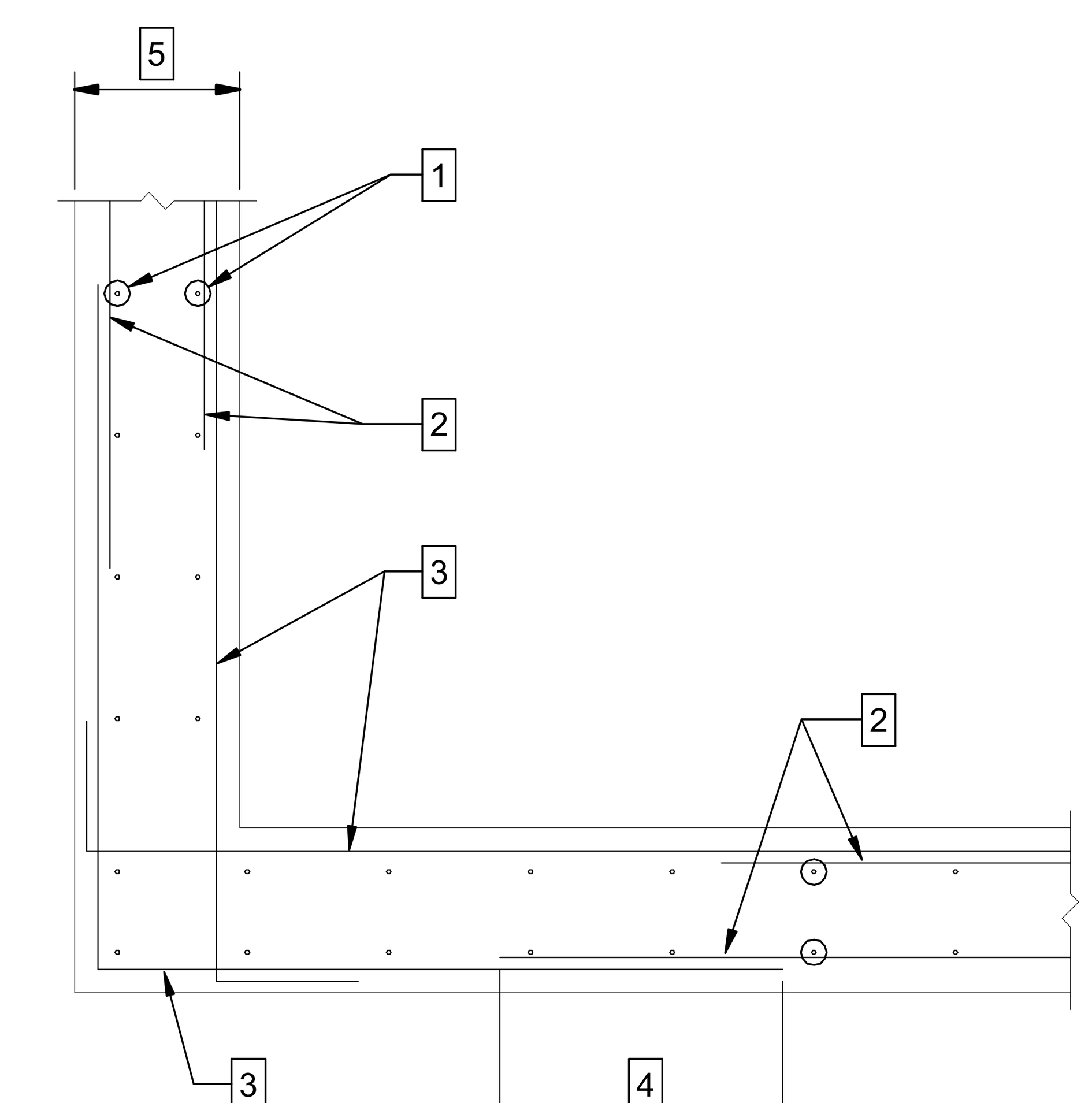
IBC 2018	INTERNATIONAL BUILDING CODE w/ GEORGIA AMENDMENTS
ASCE 7-16	MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
ACI 350	AMERICAN CONCRETE INSTITUTE
AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI S100	NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AISI S202	CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL MEMBERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS (AS SPECIFIED IN CODES)
AWS D1.1	AMERICAN WELDING SOCIETY
SDI-RD	STANDARD FOR STEEL ROOF DECK
SDI-QA/QC	STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK
TMS 402	BUILDING CODE FOR MASONRY STRUCTURES
TMS 602	SPECIFICATION FOR MASONRY STRUCTURES



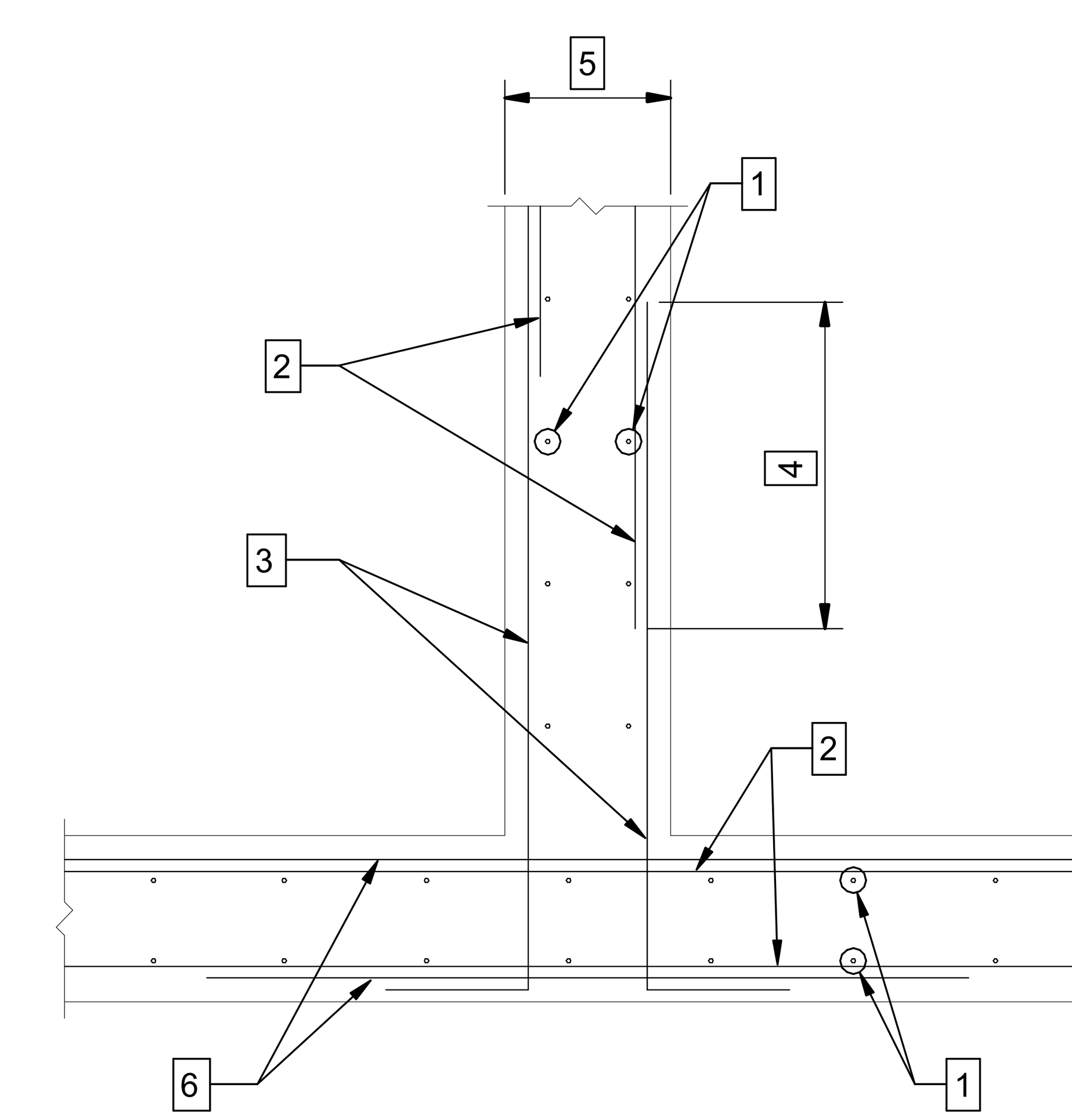
C
S-001
TYPICAL SLAB ON GRADE / EQUIPMENT PAD
SCALE: 3/4" = 1'-0"

REQUIRED NOTES:

1. TYPICAL VERTICAL WALL REINFORCING
2. TYPICAL HORIZONTAL WALL REINFORCING
3. CORNER REINFORCING. SEE PLANS FOR SIZE AND SPACING (TYPICAL)
4. CLASS B TENSION LAP SPLICE (TYP.)
5. WALL THICKNESS
6. ADDITIONAL HORIZONTAL REINFORCING. SEE PLAN FOR SIZE AND SPACING (TYP.)
7. (3) #5 CONT. w/ #5 TIES @ 24" O.C.
8. #5 @ 12" O.C. EACH WAY (TYPICAL)



A
S-001
TYPICAL CORNER REINFORCING
SCALE: 3/4" = 1'-0"



B
S-001
TYPICAL INTERSECTING WALLS
SCALE: 3/4" = 1'-0"

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STATE OF GEORGIA CERTIFICATE OF AUTHORIZATION GOODWYN MILLS CAWOOD, LLC No.PEF007898 Exp.06.30.2026

ISSUE	DATE
90% Submittal	11.27.24
Bid Set	03.19.25
Conformed Set	

Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

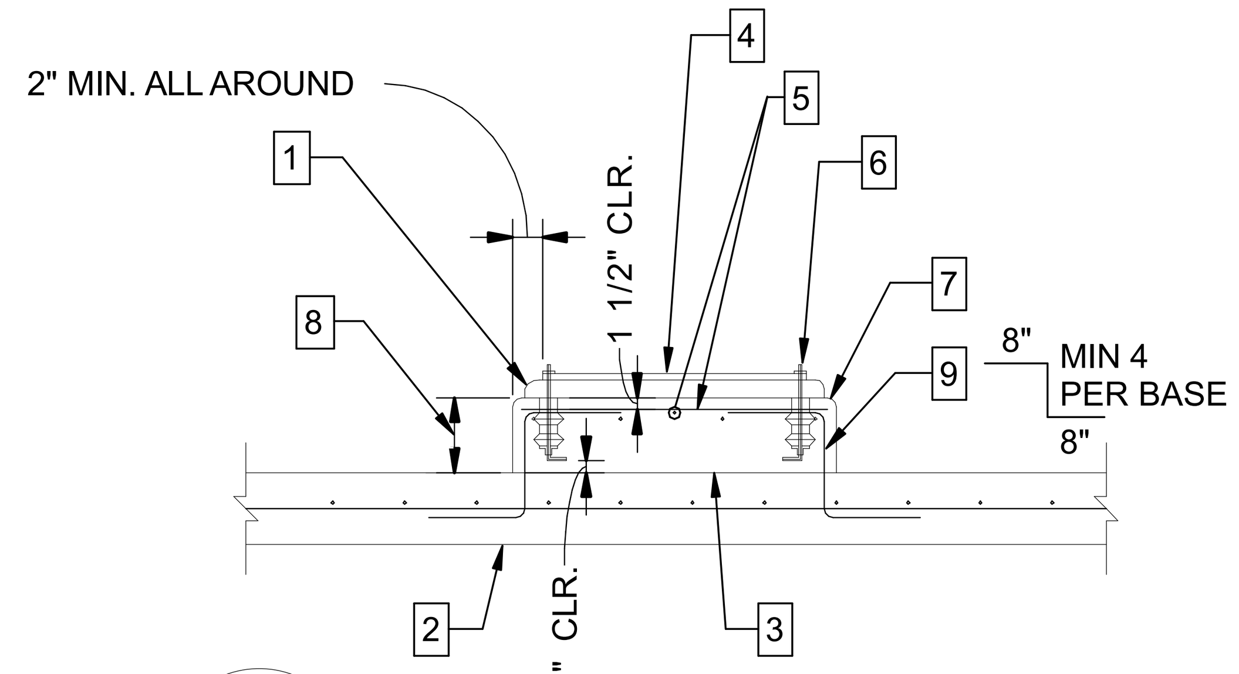
GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

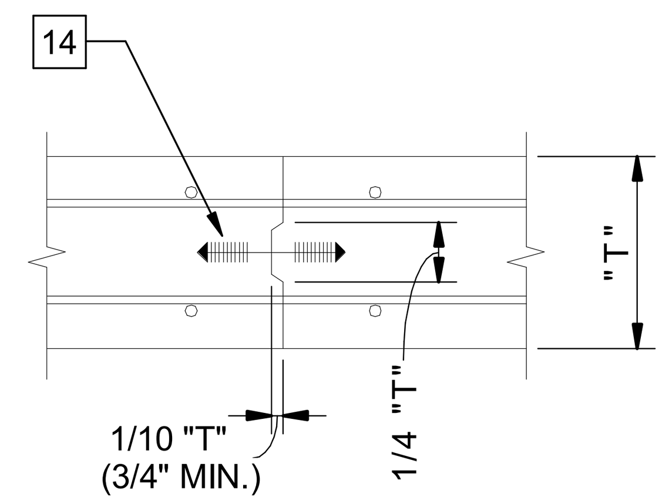
GMC PROJECT #CATL230033

STRUCTURAL NOTES & TYPICAL DETAILS

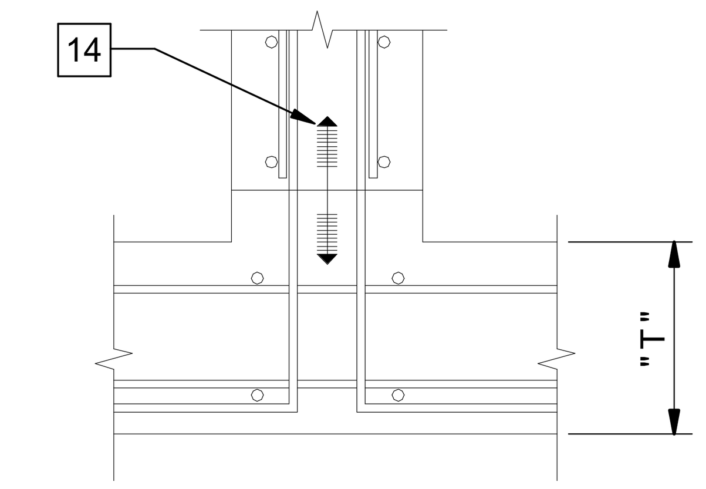
S-001



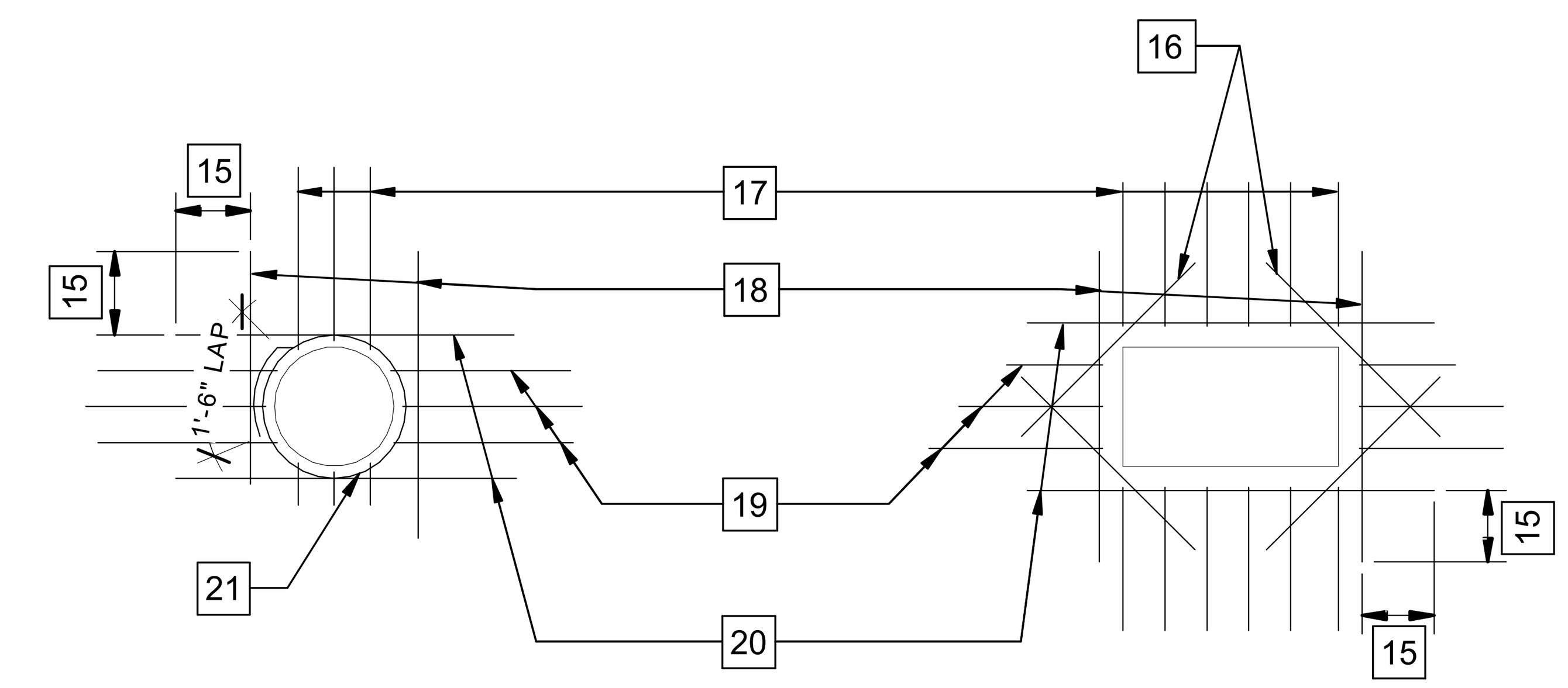
A
S-002
EQUIPMENT PAD TYPE A
SCALE: 3/4" = 1'-0"



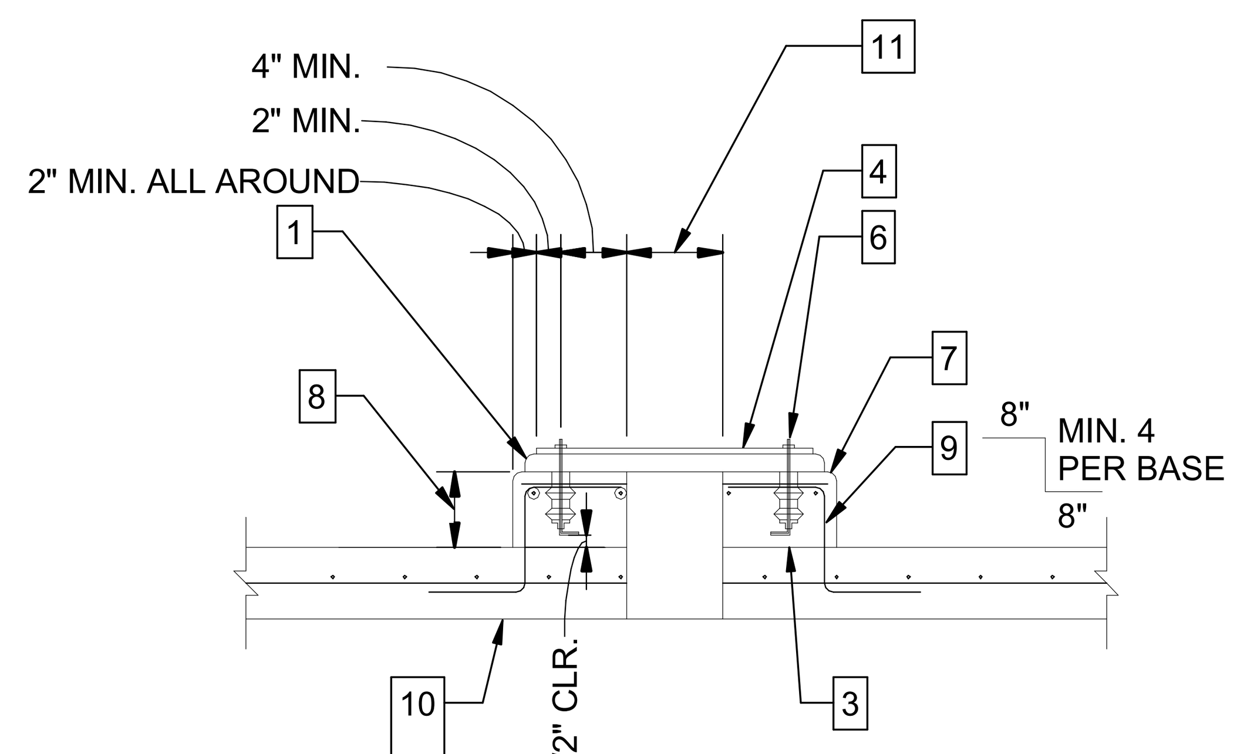
D
S-002
CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



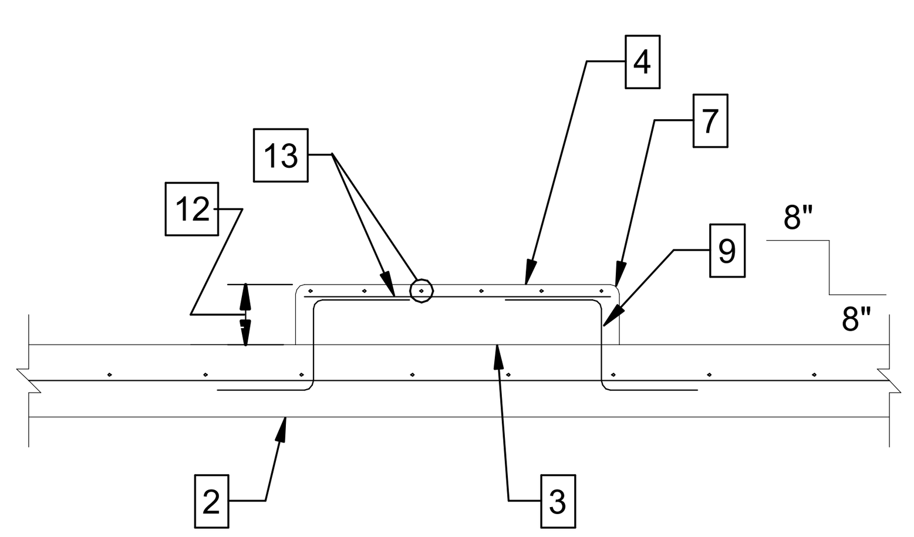
E
S-002
CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"



F
S-002
OPENING REINFORCEMENT
SCALE: 3/4" = 1'-0"



B
S-002
EQUIPMENT PAD TYPE C
SCALE: 3/4" = 1'-0"



C
S-002
EQUIPMENT PAD TYPE F
SCALE: 3/4" = 1'-0"

REQUIRED NOTES: #

1. 1 1/2" FLOWABLE NON-SHRINK GROUT (TYP.)
2. SUSPENDED SLAB OR SLAB ON GRADE, FOR THICKNESS, SEE PLANS
3. CONSTRUCTION JOINT. LEAVE ROUGH & CLEAN
4. EQUIPMENT BASE
5. #4 @ 12" O.C. EACH WAY
6. MINIMUM ANCHOR BOLT DIMENSIONS, SEE NOTES AND ANCHOR BOLT DETAILS
7. TOOLED EDGES (3/4")
8. AS REQUIRED FOR EQUIPMENT, BOLTS AND PIPING (5 1/2" MINIMUM)
9. #4 @ 12" O.C.
10. SUSPENDED SLAB ONLY, SEE PLANS
11. OPENING SIZE, VERIFY w/ PLANS & EQUIPMENT MFR. FORM TO RETAIN GROUT
12. PAD HEIGHT AS REQ'D, 5" MAX.
13. #3 @ 12" O.C. EA. WAY, 1" CLR.
14. WATERSTOP (SEE SECTIONS FOR SIZE AND TYPE)
15. PROVIDE MIN LAP AS NOTED OR SHOWN ON PLANS (TYP.)
16. ADD 1-#5x4'-0" DIAG AT EA CORNER FOR EA LAYER OF REINF.
17. STEEL REINF. CUT BAND "B"
18. AREA OF BARS EQUAL BAND "B" BARS CUT
19. STEEL REINF. CUT BAND "A"
20. AREA OF BARS EQUAL BAND "A" BARS CUT
21. 1-#5 HOOP,DIA OF OPNG +8", IN EA LAYER OF REINF FOR OPNGS LARGER THAN 8"

EQUIPMENT PAD NOTES:

1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
2. THE SIZE, NUMBER, TYPE, LOCATION AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE THE ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
5. EQUIPMENT BASES SHALL BE INSTALLED LEVELUNLESS SPECIFIED OTHERWISE.
6. WEDGES OR SHIMS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. IF LEFT IN, THE WEDGES OR SHIMS SHALL NOT BE EXPOSED TO VIEW.

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Drawn By:	JD

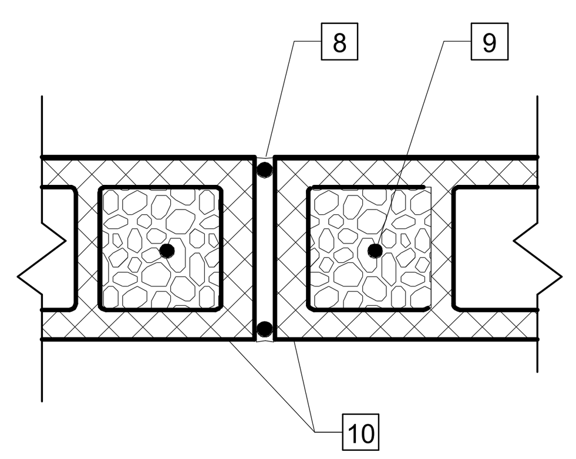
COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

GMC PROJECT #CATL230033

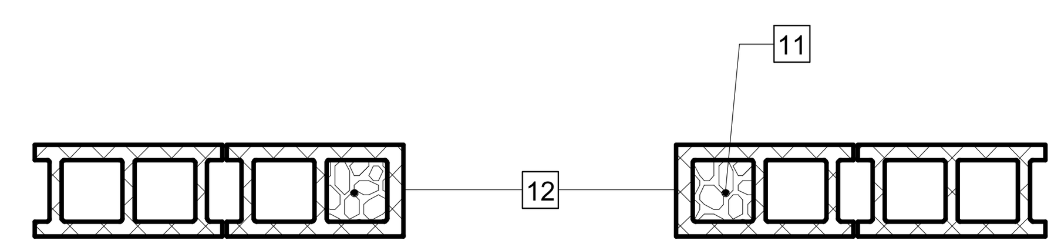
GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

TYPICAL DETAILS

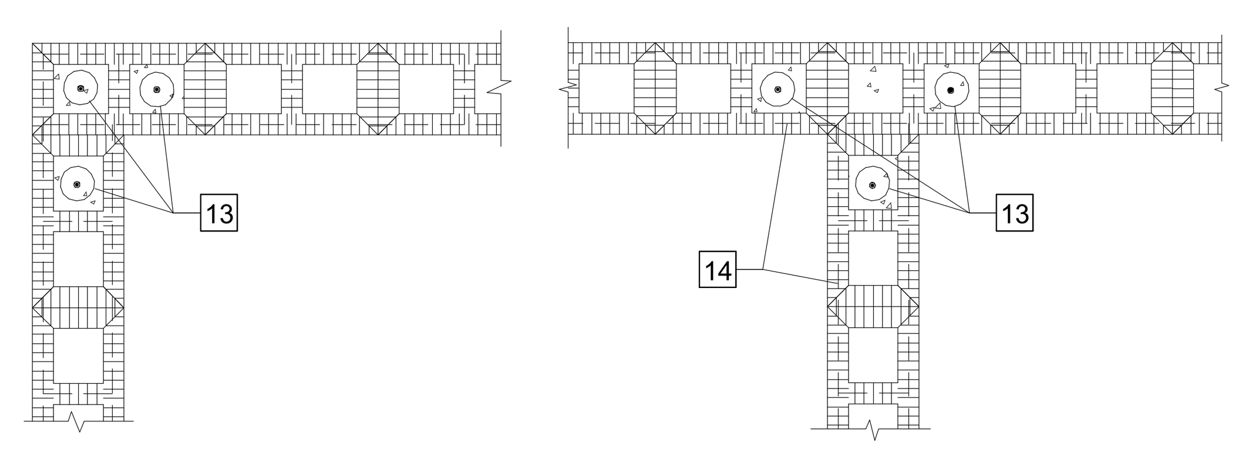
S-002



A / S-003 **TYPICAL CMU CONTROL JOINT**
SCALE: 1 1/2" = 1'-0"



B / S-003 **TYPICAL CMU JAMB OPENING**
SCALE: 3/4" = 1'-0"



EXTERIOR CORNER

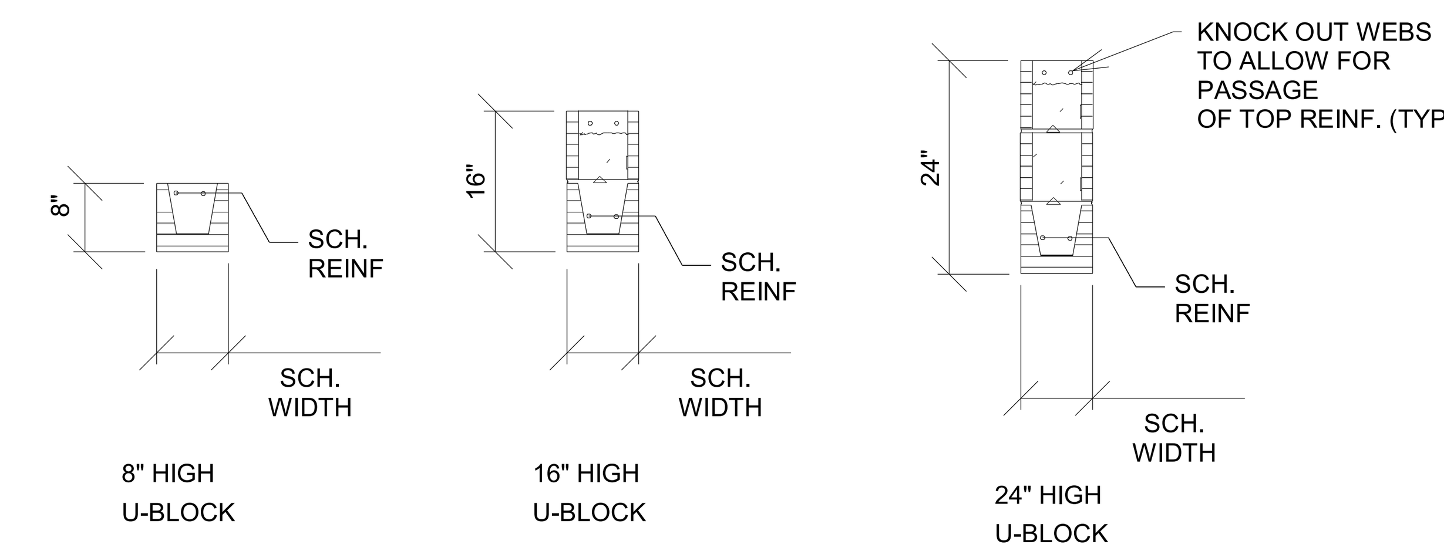
INTERIOR CORNER

C / S-003 **TYPICAL CORNER REINFORCING**
SCALE: 3/4" = 1'-0"

8" CMU LINTEL SCHEDULE					
MARK	MAX SPAN	TYPE	SIZE	REINFORCEMENT	REMARKS
	4'-0"	U-BLOCK	8"	2-#5 BOTT.	8" HIGH U-BLOCK
	8'-0"	U-BLOCK	8"	2-#5 TOP & BOTT.	16" HIGH U-BLOCK
	15'-0"	U-BLOCK	8"	2-#6 TOP & BOTT.	24" HIGH U-BLOCK

LINTEL SCHEDULE NOTES:

1. BEAR U-BLOCKS 8" MINIMUM EA. END. PROVIDE #5 @ EA. JAMB FILL CELLS W/ GROUT FULL HEIGHT OF WALL
2. AT JAMBS REINFORCING SHALL BE CONTINUOUS THROUGH U-BLOCK BEARING



8" CMU REINFORCEMENT LAP SPLICE SCHEDULE			
MASONRY STRENGTH (f'm) (PSI)	BAR SIZE (#)	DEVELOPMENT LENGTH/ LAP SPLICE (IN.)	NOTES
2500	3	18	REINF. TO BE CENTERED IN CELL (U.N.O.)
	4	24	
	5	30	
	6	40	

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE (3000 PSI CONCRETE)		
BAR SIZE (#)	DEVELOPMENT LENGTH (IN.)	CLASS B TENSION SPLICE (IN.)
3	17	22
4	22	29
5	28	36
6	33	43
7	48	63
8	55	72
9	62	81
10	70	91
11	78	101

CONCRETE REINFORCEMENT LAP SPLICE SCHEDULE (4000 PSI CONCRETE)		
BAR SIZE (#)	DEVELOPMENT LENGTH (IN.)	CLASS B TENSION SPLICE (IN.)
3	15	19
4	19	25
5	24	31
6	29	37
7	42	54
8	48	62
9	54	70
10	61	79
11	67	87

REQUIRED NOTES: #

1. 8" CMU WALL
2. #5 VERTICAL @ 48" MAX. O.C. - FILL REINF. CELLS FULL HEIGHT
3. HORIZ. MASONRY REINF. @ 16" MAX. O.C.
4. 8" CONT. BOND BEAM w/ (2) #5 CONT.
5. PREFABRICATED LIGHT GAUGE STEEL ROOF TRUSSES - SEE ROOF FRAMING PLAN FOR SPACING
6. SIMPSON HETA20 TRUSS TIES OR EQUIVALENT @ EACH TRUSS
7. 1.5B22 STEEL ROOF DECK
8. BACKER ROD AND CAULK AT EA. M.C.J.
9. (1) #5 EA. SIDE OF M.C.J.
10. HORIZONTAL MASONRY REINFORCEMENT TO BE DISCONTINUOUS ACROSS M.C.J.
11. (1) #5 IN EA. JAMB CELL - GROUT FULL HT. AT REINFORCING
12. DOOR OR WINDOW OPENING
13. (3) #5 - GROUT FULL HT. AT REINFORCING
14. HORIZ. REINF. @ 16" O.C. VERTICAL

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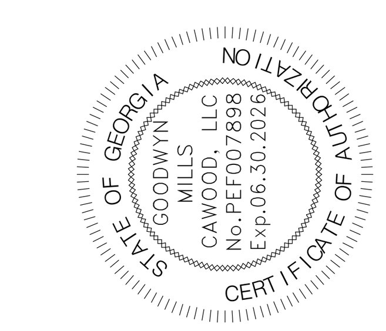

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COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

GMC PROJECT #CATL230033

TYPICAL DETAILS

S-003

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REQUIRED STRUCTURAL OBSERVATIONS FOR STRUCTURE IN ACCORDANCE WITH IBC 1704.6

IBC REFERENCE	CONDITION REQUIRING STRUCTURAL OBSERVATION	DOES CONDITION EXIST ON THIS PROJECT (Y/N)	ADDITIONAL OBSERVATIONS REQUIRED
1704.6.1.1	RISK CAT. III OR IV	Y	-
1704.6.1.2	HIGH RISE BUILDING	N	
1704.6.1.3	SEISMIC DESIGN CATEGORY E & GREATER THAN 2 STORIES	N	
1704.6.1.4	ADDITIONAL OBSERVATIONS REQUIRED BY SEOR	N	SEE PROJECT DRAWINGS
1704.6.1.5	ADDITIONAL OBSERVATION REQUIRED BY BUILDING OFFICIAL	VERIFY WITH AUTHORITY HAVING JURISDICTION	VERIFY WITH AUTHORITY HAVING JURISDICTION

DESIGNATED SEISMIC / WIND RESISTANCE SYSTEM

IBC REFERENCE	PROJECT CONDITION	DOES CONDITION EXIST (Y/N)	DESIGNATED WIND RESISTANCE SYSTEM IN ACCORDANCE IBC 1704.3.3
1705.12.1	WIND EXPOSURE B, WHERE V=150MPH OR GREATER	N	
1705.12.2	WIND EXPOSURE C OR D WHERE V=140 MPH OR GREATER	Y	

IBC REFERENCE	PROJECT CONDITION	DOES CONDITION EXIST (Y/N)	DESIGNATED SEISMIC RESISTANCE SYSTEM IN ACCORDANCE IBC 1704.3.2
1705.13.1.1	STRUCTURAL STEEL SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N	
1705.13.1.2	STRUCTURAL STEEL ELEMENTS FOR THE SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N	

SCHEDULE OF SPECIAL INSPECTIONS PER IBC

IBC REFERENCE	MATERIAL / SYSTEMS / COMPONENTS / WORK	REQ'D (Y/N)	TYPE / EXTENT INSPECTION OR TEST REFERENCED STANDARD	PERIODIC / CONTINUOUS	ADDITIONAL REQUIREMENTS
SPECIAL CASES					
1705.1.1.1	MATERIAL & SYSTEMS ALTERNATIVES TO THAT PRESCRIBED BY CODE	N		P	
1705.1.1.2	UNUSUAL DESIGN APPLICATIONS	N		P	
1705.1.1.3	MATERIALS & SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS	N		P	
STEEL CONSTRUCTION					
1705.2.1	STRUCTURAL STEEL	Y	AISC 360 REQUIREMENTS	SEE AISC CHAPTER N	
1705.2.2	COLD-FORMED STEEL DECK	Y	SDI QA/QC REQUIREMENTS	SEE SDI QC/QA APPENDIX 1	
1705.2.3	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	Y	SEE IBC TABLE 1705.2.3		
1705.3.4	COLD-FORMED TRUSSES SPANNING 60' OR GREATER	N	VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS	P	
CONCRETE CONSTRUCTION					
1705.3.1	WELDING OF REINFORCING BARS	N	AWS D1.4 REQUIREMENTS	SEE SPEC	
1705.3.2	MATERIAL TEST	N	ACI 318 CH. 19 & 20 REQUIREMENTS	SEE SPEC	
MASONRY CONSTRUCTION					
1705.4.1	GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV	N	TMS 602 LEVEL 2	SEE TMS 602 TABLE 4	
1705.4.2	VERTICAL MASONRY FOUNDATION ELEMENTS	Y	TMS 602 LEVEL 2	SEE TMS 602 TABLE 4	
WOOD CONSTRUCTION					
1705.5.1	HIGH LOAD DIAPHRAGMS	N	VERIFY ALL CONSTRUCTION IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS	P	
1705.5.2	METAL PLATE CONNECTED WOOD TRUSSES SPANNING 60' OR GREATER	N	VERIFY ALL DETAILS IN ACCORDANCE W/ APPROVED TRUSS DRAWINGS	P	
1705.5.3	MASS TIMBER CONSTRUCTION (TYPE IV-A, IV-B, AND IV-C CONSTRUCTION)	N		P	
SOILS					
1705.6	SPECIAL INSPECTION AND TEST OF EXISTING SITE SOIL CONDITIONS	Y		P	
FOUNDATIONS					
1705.7	SPECIAL INSPECTION AND TEST OF DURING INSTALLATION OF DRIVEN DEEP FOUNDATION ELEMENTS	N		C	
1705.8	SPECIAL INSPECTION AND TEST OF DURING INSTALLATION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS	N		C	
1705.9	EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE, & ANY OTHER REQUIRED DATA	N		C	
1705.10	WHEN THERE IS A REASONABLE DOUBT AS TO THE STRUCTURAL INTEGRITY OF A DEEP FOUNDATION ELEMENT, AN ENGINEERING ASSESSMENT SHALL BE REQUIRED	N		C	
FABRICATED ITEMS					
1705.11	SPECIAL INSPECTION OF FABRICATED ITEMS IN ACCORDANCE WITH IBC 1704.2.5	N		P	
SPECIAL INSPECTIONS FOR WIND RESISTANCE					
1705.12.1	STRUCTURAL WOOD	N		P	
	FIELD GLUING	N		C	
	NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS IN THE MWFRS	N		P	
1705.12.2	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	N		P	
	WELDING	N		P	
	SCREW ATTACHMENT, BOLTING, ANCHORING, OTHER FASTENING OF ELEMENTS IN THE MWFRS	N		P	
1705.12.3.1	ROOF COVERING, ROOF DECKING, AND ROOF FRAMING CONNECTIONS	Y		P	
1705.12.3.1	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING	N		P	
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
1705.13.1	STRUCTURAL STEEL	N		P	
1705.13.1.1	SFRS IN SEISMIC DESIGN CATEGORIES B, C, D, E, AND F	N		P	NOTE EXCEPTIONS
1705.13.2	SFRS ASSIGNED TO DESIGN CATEGORIES C, D, E, AND F	N		P	
	FIELD GLUING	N		C	
	NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS IN THE MSFRS	N		P	
1705.13.3	COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	N		P	
	WELDING	N		P	
	SCREW ATTACHMENT, BOLTING, ANCHORING, OTHER FASTENING OF ELEMENTS IN THE MWFRS	N		P	
1705.13.4	DESIGNATED SEISMIC SYSTEMS	N		P	
1705.13.5	ARCHITECTURAL COMPONENTS	N		P	NOTE EXCEPTIONS
1705.13.6	PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS	N		P	NOTE EXCEPTIONS
1705.13.7	STORAGE RACKS	N		P	
1705.13.8	SEISMIC ISOLATIONS SYSTEMS	N		P	
1705.13.9	COLD-FORMED STEEL SPECIAL BOLTED MOMENT FRAMES	N		P	
TESTING FOR SEISMIC RESISTANCE					
1705.14.1	STRUCTURAL STEEL	N		P	
1705.14.1.1	SEISMIC FORCE-RESISTING SYSTEMS	N		P	NOTE EXCEPTIONS
1705.14.1.2	STRUCTURAL STEEL ELEMENTS	N		P	
1705.14.2	NONSTRUCTURAL COMPONENTS	N		P	
1705.14.3	DESIGNATED SEISMIC SYSTEMS	N		P	
1705.14.4	SEISMIC ISOLATION SYSTEMS	N		P	

CONCRETE INSPECTIONS AND TEST SHALL NOT BE REQUIRED FOR:

1. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK
2. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE
2.1. THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION
2.2. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7
2.3. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH (f'c) NOT MORE THAN 2500 PSI, REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS
3. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI
4. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.2
5. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE

MASONRY SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:

1. EMPIRICALLY DESIGNED MASONRY, GLASS UNIT OR MASONRY VENEER DESIGNED IN ACCORDANCE WITH SECTIONS 2109, SECTION 2110, OR CHAPTER 14, RESPECTIVELY, WHERE THEY ARE PART OF THE A STRUCTURE CLASSIFIED AS RISK CATEGORY I, II, OR III.
2. MASONRY FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.3(1), 1807.1.6.3(2),1807.1.6.3(3), or 1807.1.6.3(4).
3. MASONRY FIREPLACES, MASONRY HEATERS OR MASONRY CHIMNEYS INSTALLED OR CONSTRUCTED IN ACCORDANCE WITH SECTION 2111, 2112, OR 2113, RESPECTIVELY

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3
2. REINFORCING BAR WELDING			AWS D1.4, ACI 318: 26.6.4
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	
B. INSPECT SINGLE PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$"		X	
C. INSPECT ALL OTHER WELDS	X		
3. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			ACI 318: 17.8.2.4,17.8.2
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A		X	
5. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: 19, 26.4.3, 26.4.4, IBC 1904.1,1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C31, ASTM C172, ACI 318: 26.5, 26.12
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5
9. INSPECT PRESTRESSED CONCRETE			ACI 318: 26.10
A. APPLICATION OF PRESTRESSING FORCES	X		
B. GROUTING OF BONDED PRESTRESSING TENDONS	X		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X	ACI 318: 26.10
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTION OR REINFORCEMENT AT JOISTS CLASSIFIED AS MODERATE OR HIGH DEFORMABLITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C,D,E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD			ACI 318: 26.13.1.3 ACI 550.5
A. INSTALLATION OF THE EMBEDDED PARTS	X		
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	X		
C. COMPLETION OF CONNECTIONS IN THE FIELD	X		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5		X	ACI 318: 26.13.1.3
13. VERIFY 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		X	ACI 318: 26.11.2
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBERS BEING FORMED.		X	ACI 318 26.11.1.2(b)

TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PREVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS PREPARED PROPERLY.	X	
CONCEALED CONNECTIONS		X

IBC TABLE 1705.2.3 REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
a. END CONNECTIONS - WELDING OR BOLTED		X	SJI SPEC SECTION 2207.1
b. BRIDGING - HORIZONTAL OR DIAGONAL			
1. STANDARD BRIDGING		X	SJI SPEC SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM THE SJI SPEC LISTED IN SECTION 2207.1		X	

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No.PEF007898
Exp.06.30.2026

ISSUE	DATE
90% Submittal	11.27.24
Bid Set	03.19.25
Conformed Set	

Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

COMMERCE 2.0 MGD
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GMC PROJECT #CATL230033

GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

S-004

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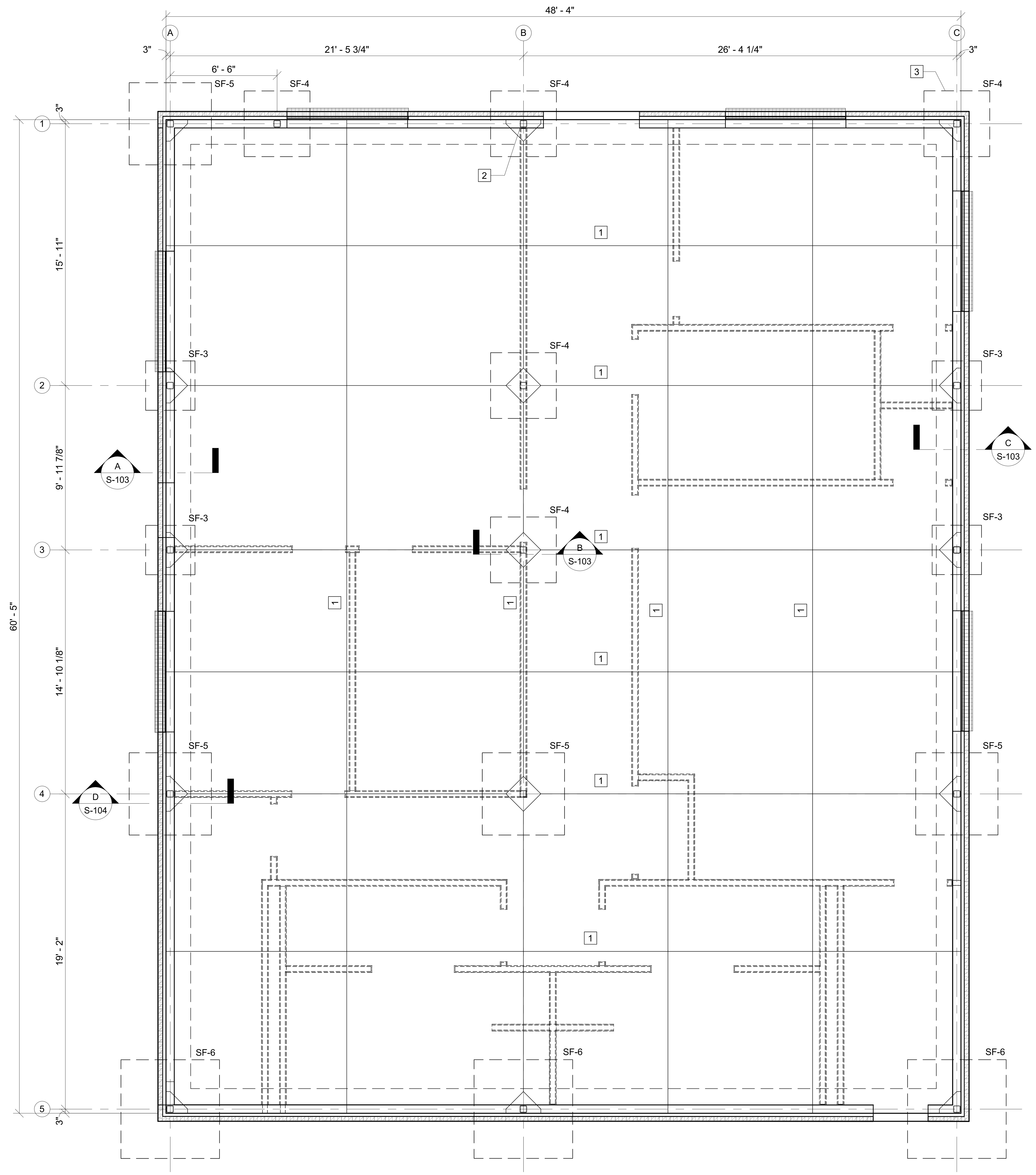
KEY NOTES: #

1. CONTROL JOINT
2. HSS5x5x3/8 COLUMN - TYPICAL
3. SPREAD FOOTING - SEE SCHEDULE FOR SIZE AND REINFORCING



1 S-101 **ADMINISTRATION & LAB BUILDING FOUNDATION PLAN**

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

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ADMINISTRATION & LAB BUILDING FOUNDATION PLAN

S-101

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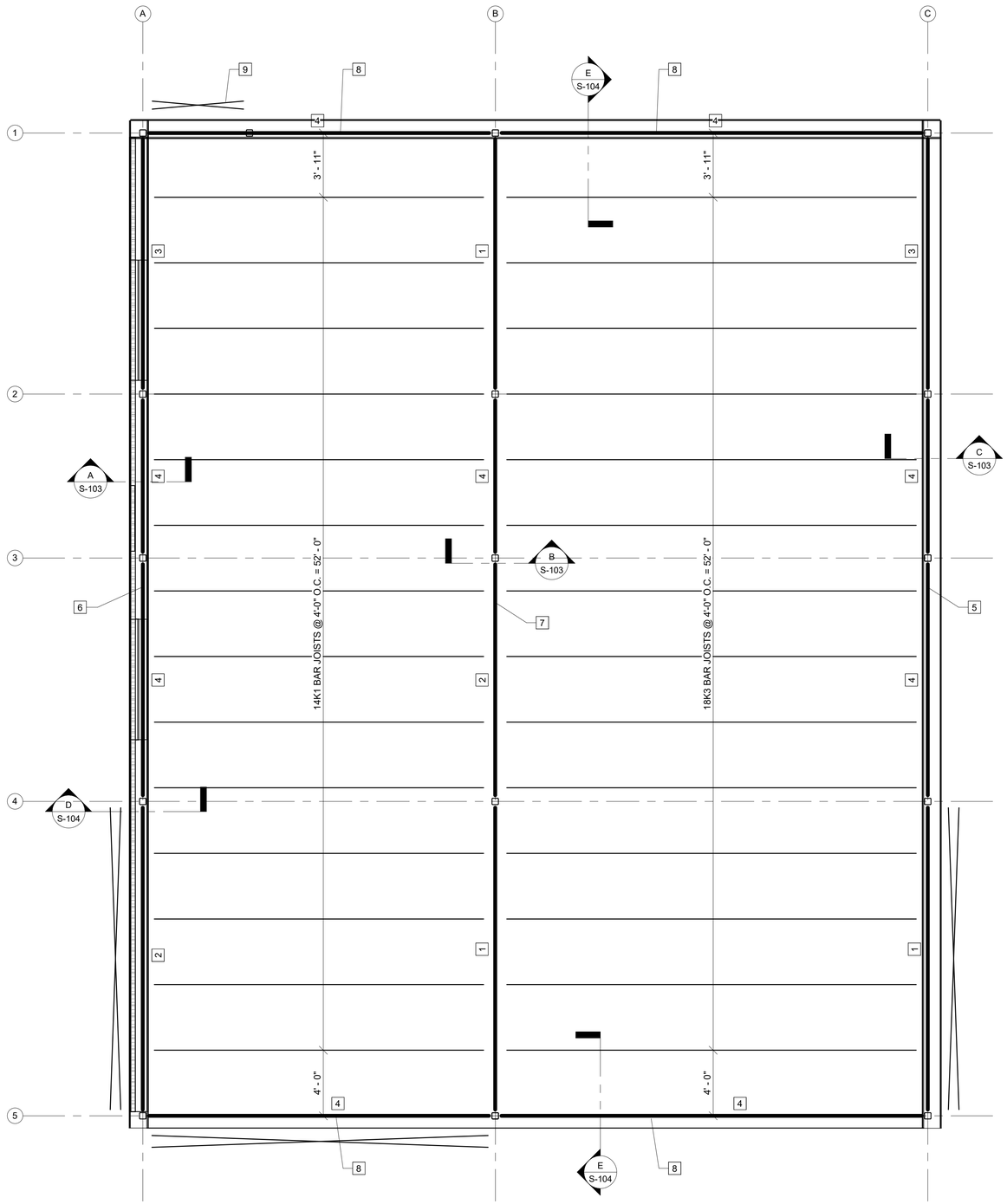

ADMINISTRATION & LAB BUILDING ROOF FRAMING PLAN

1 / S-102 SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. W16x40
2. W16x31
3. W16x26
4. W14x26
5. TOP OF STEEL EL. = +14'-1" A.F.F.
6. TOP OF STEEL EL. = +12'-9 1/2" A.F.F.
7. TOP OF STEEL EL. = + 13'-6" A.F.F.
8. TOP OF STEEL SLOPES
9. HSS5x5x3/8 X-BRACING - TYPICAL 4 LOCATIONS

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ADMINISTRATION & LAB BUILDING ROOF FRAMING PLAN

S-102

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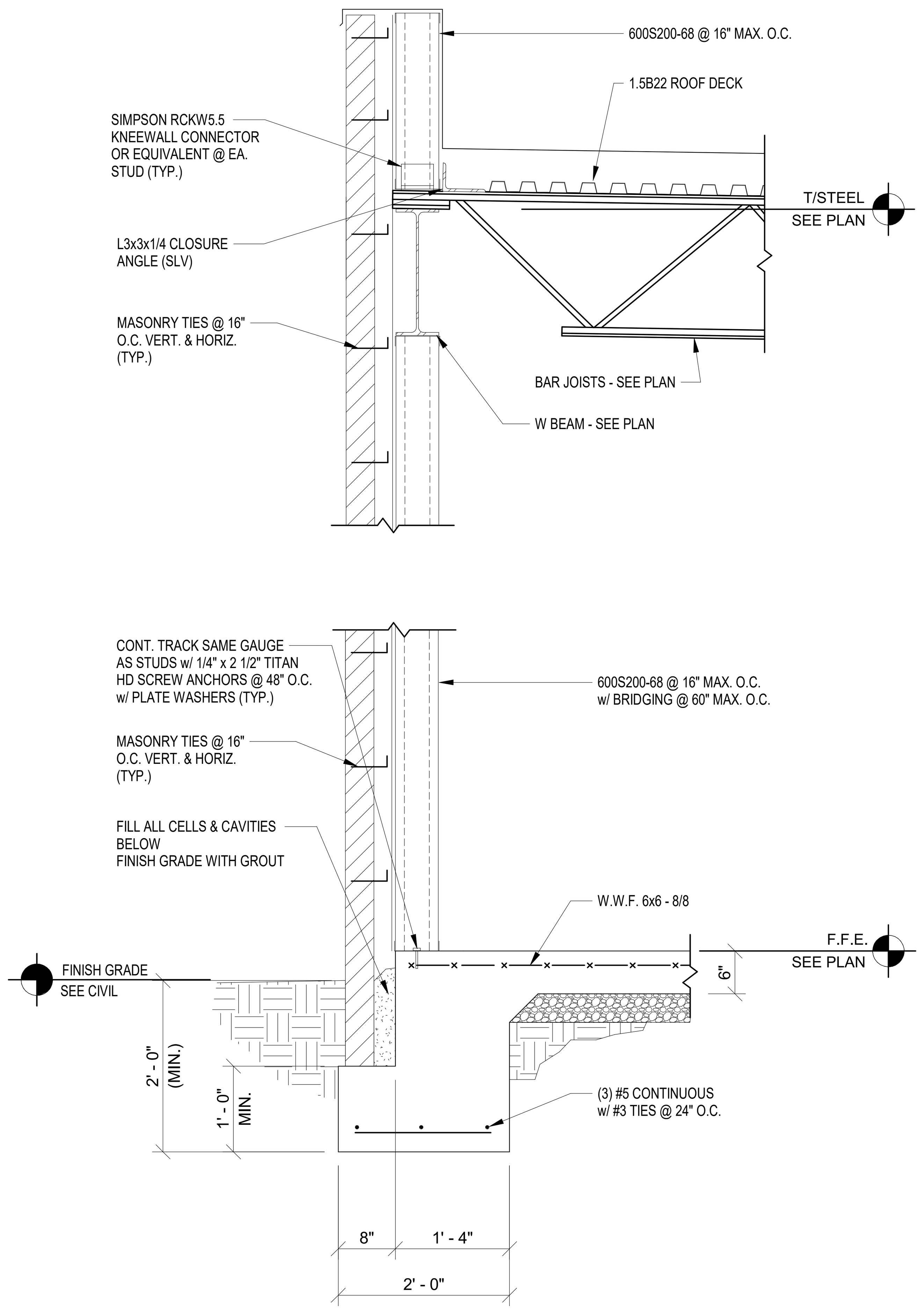
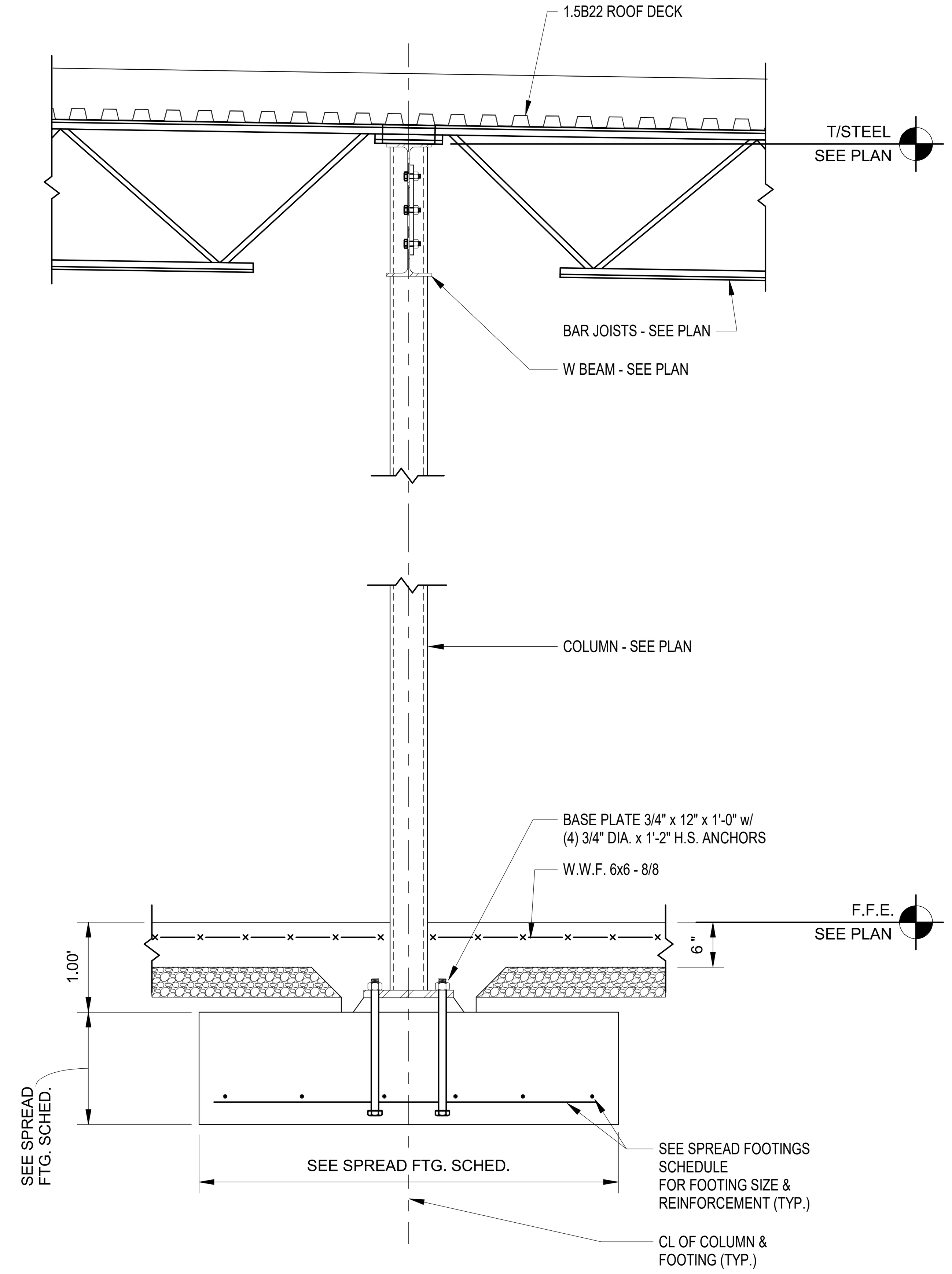


A S-101 **SECTION**
SCALE: 3/4" = 1'-0"



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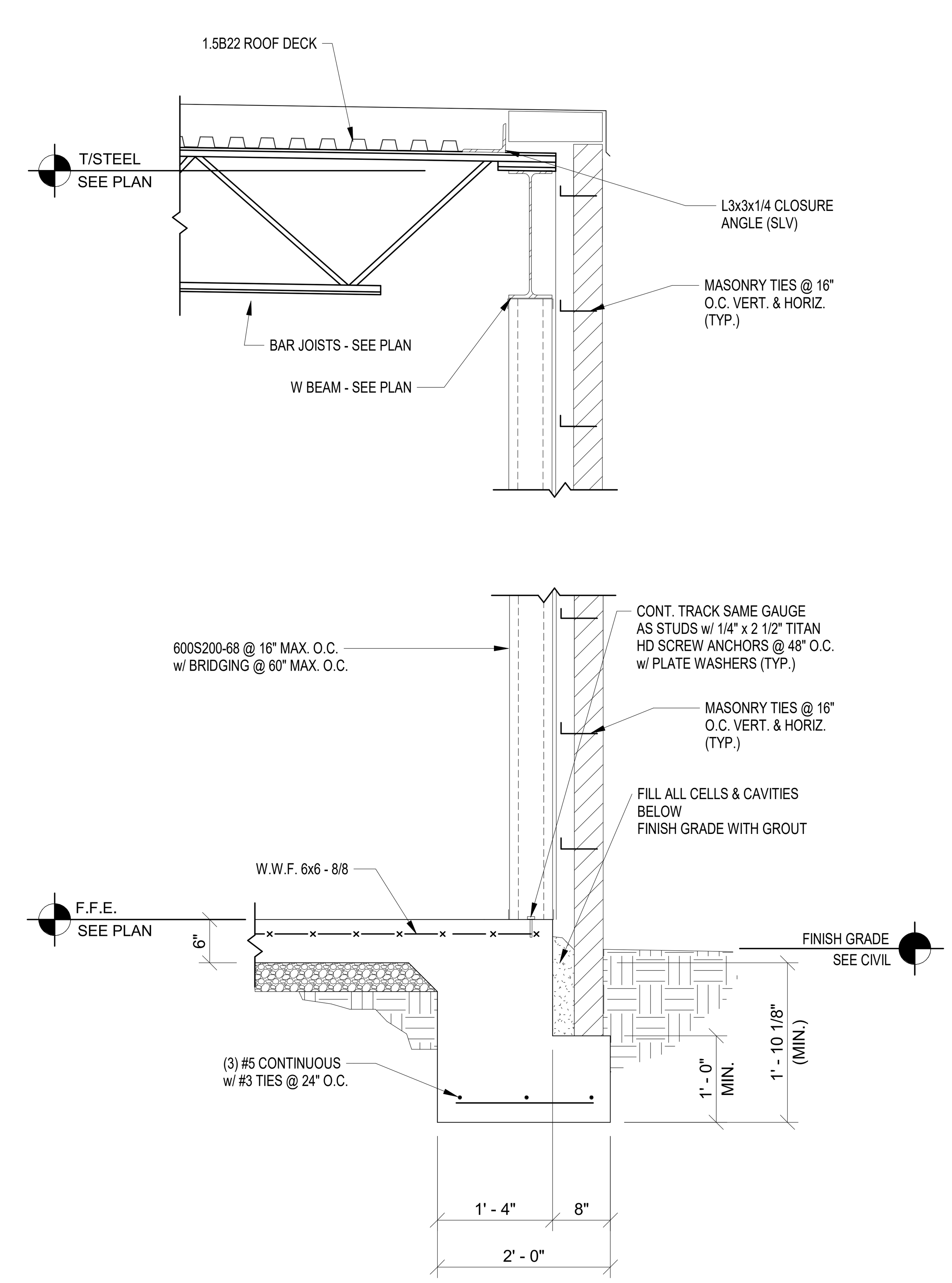

C S-101 **SECTION**
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ADMINISTRATION & LAB BUILDING - SECTIONS

S-103

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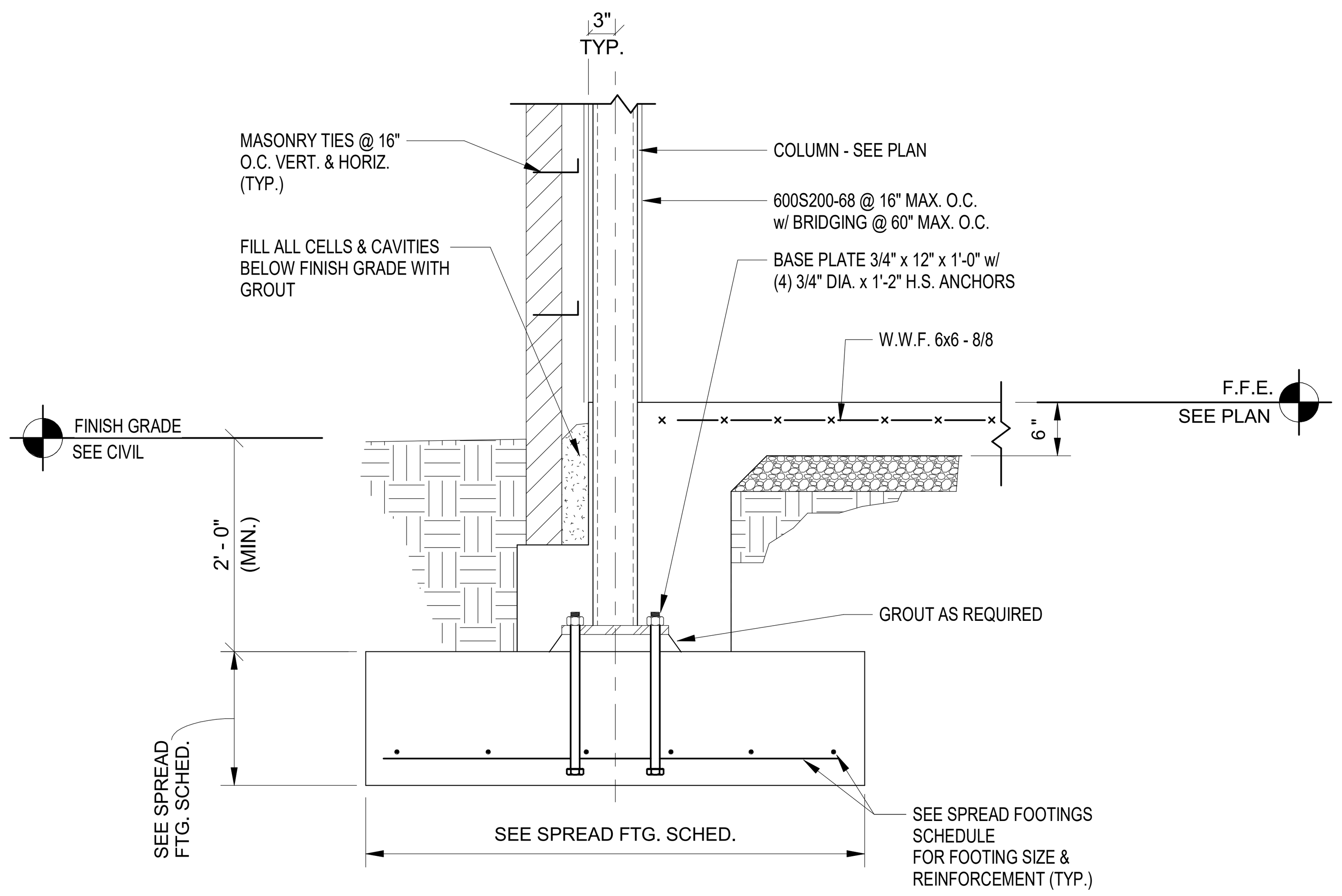

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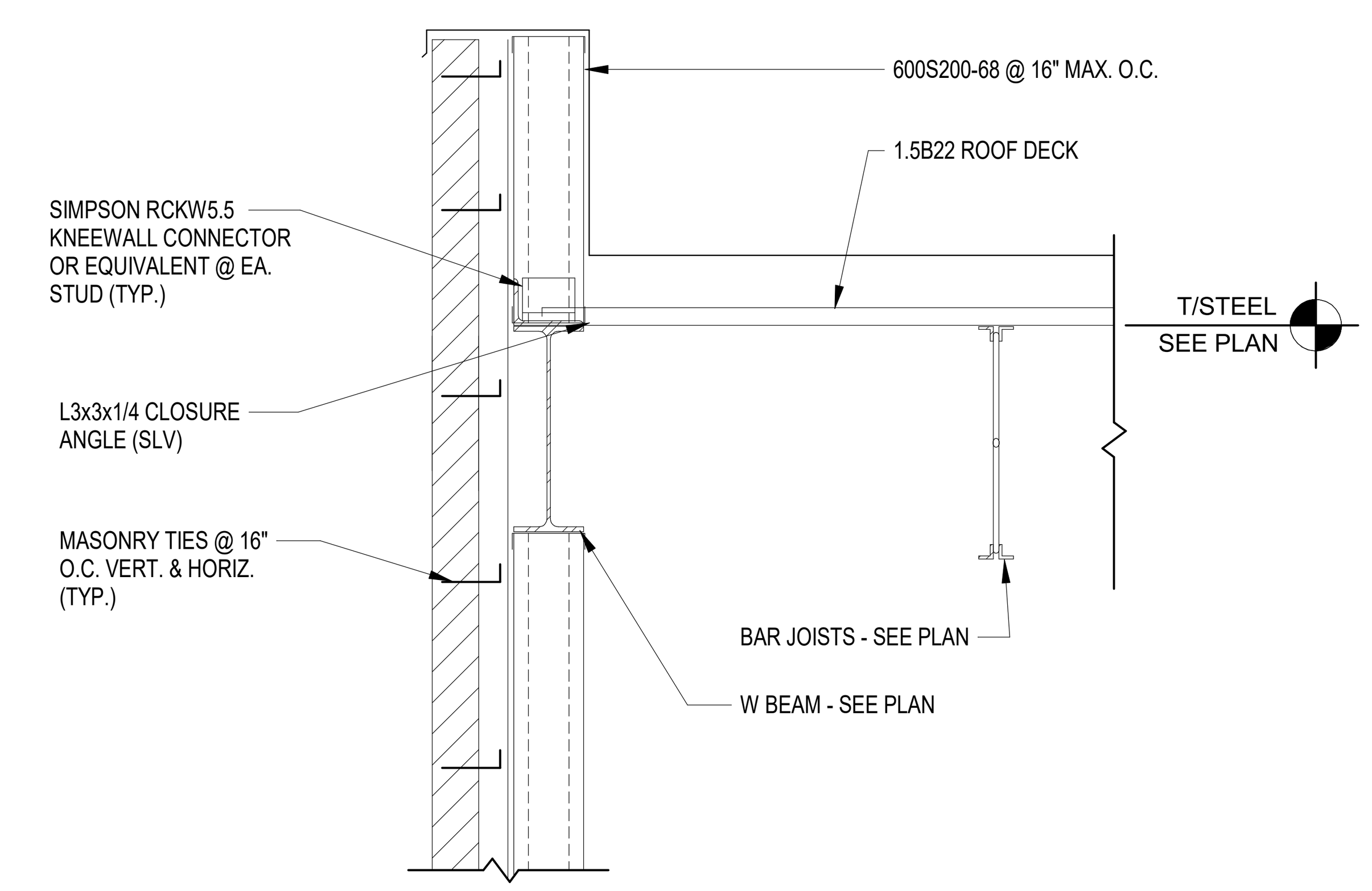
S-101
SECTION
SCALE: 3/4" = 1'-0"



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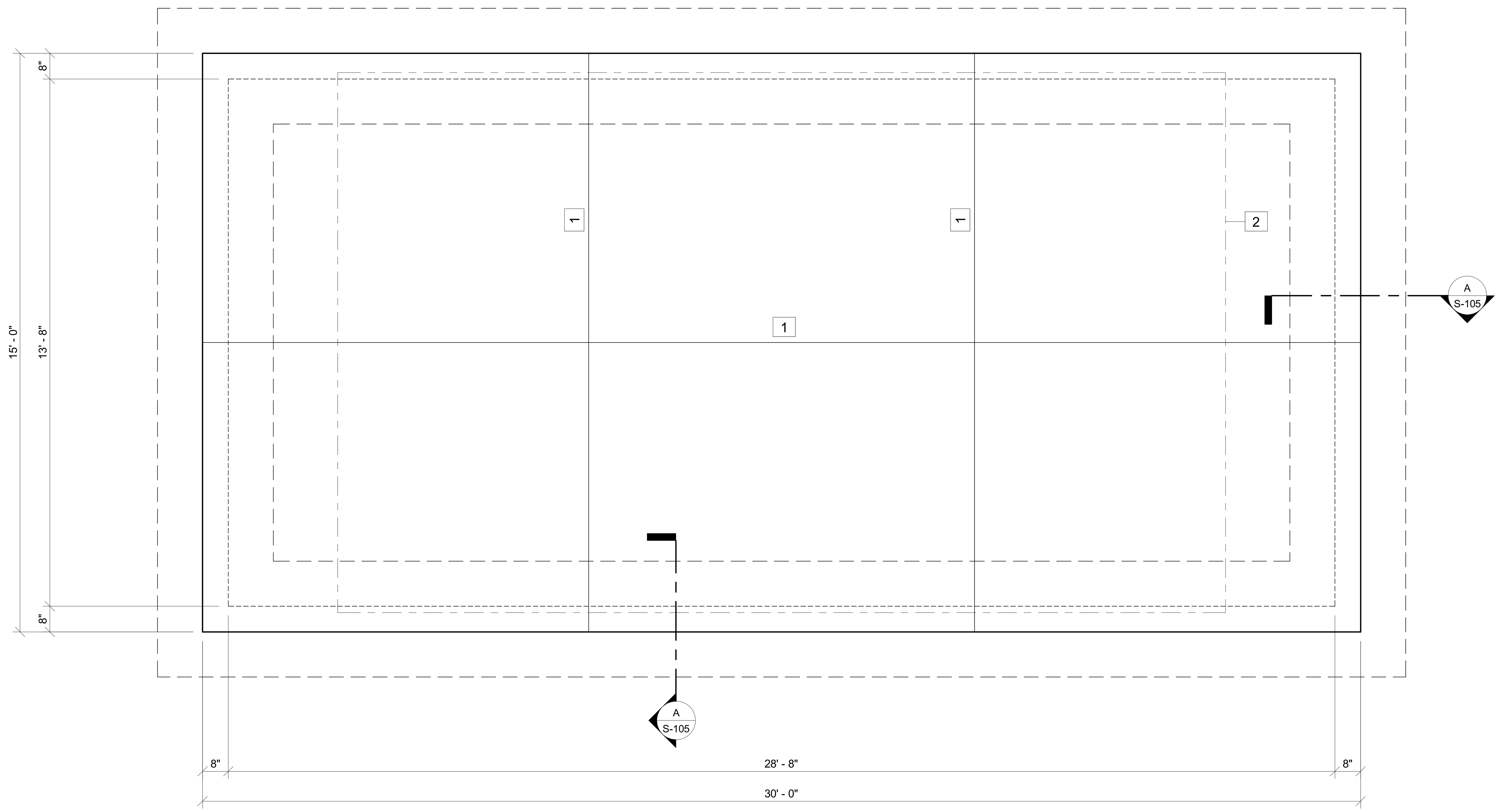
ADMINISTRATION & LAB BUILDING - SECTIONS

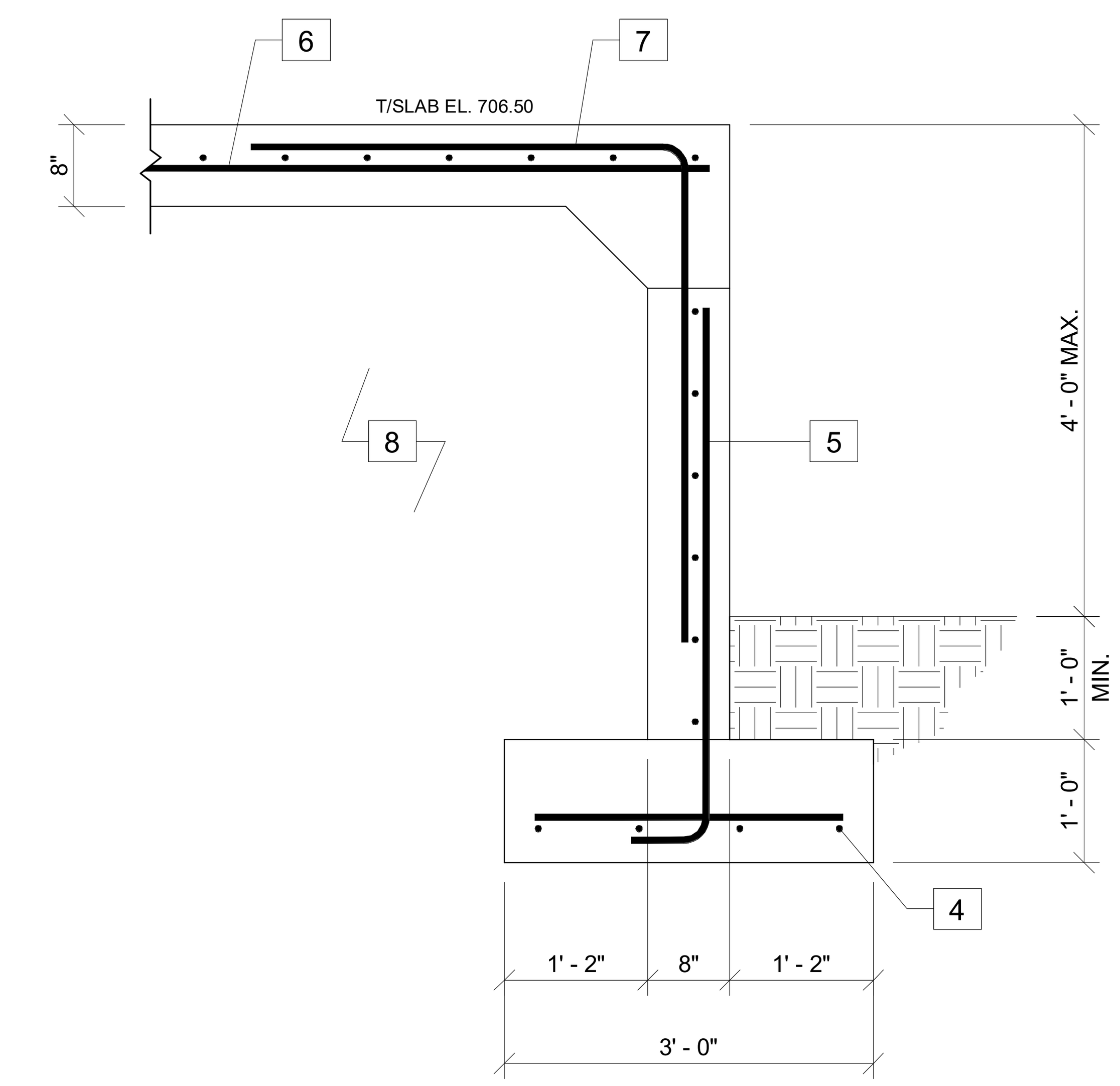
S-104

REQUIRED NOTES: #

1. CONTROL JOINT
2. FOOTPRINT OF ELECTRICAL BUILDING BY OTHERS
3. FOOTPRINT OF GENERATOR BY OTHERS
4. (4) #5 CONTINUOUS w/ #5 TRANSVERSE @ 16" MAX. O.C.
5. #5 @ 8" MAX. O.C. EACH WAY - 2" CLEAR FROM OUTSIDE FACE OF WALL
6. #5 @ 8" MAX. O.C. EACH WAY - CENTERED IN SLAB
7. #5 x 3'-6" BENT BARS @ 24" MAX. O.C.
8. COMPACTED GRANULAR FILL PER GEOTECHNICAL ENGINEER



1 S-105 **ELECTRICAL BUILDING PAD - PLAN**
SCALE: 1/2" = 1'-0"



A S-105 **SECTION**
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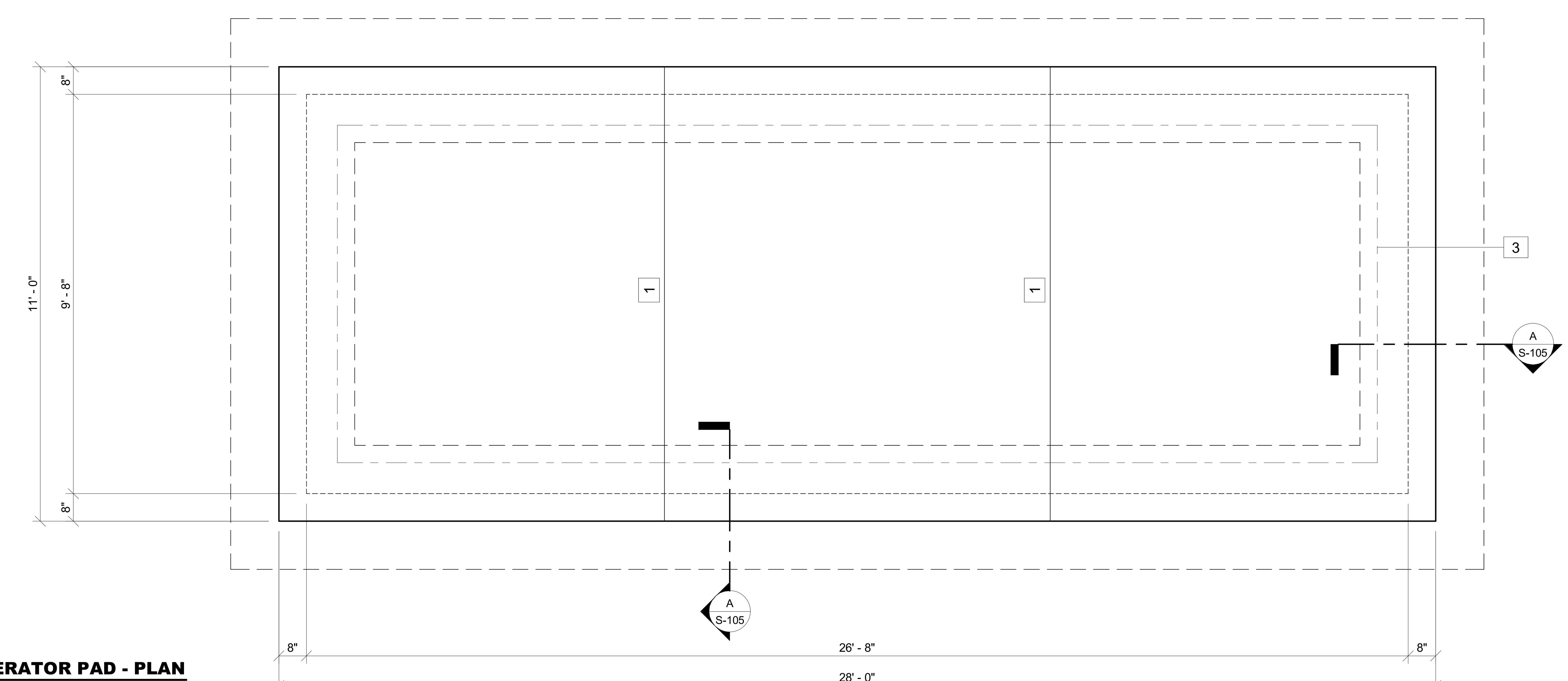

2 S-105 **GENERATOR PAD - PLAN**
SCALE: 1/2" = 1'-0"

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GENERATOR & ELECTRICAL BUILDING FOUNDATION - PLANS & SECTION

S-105

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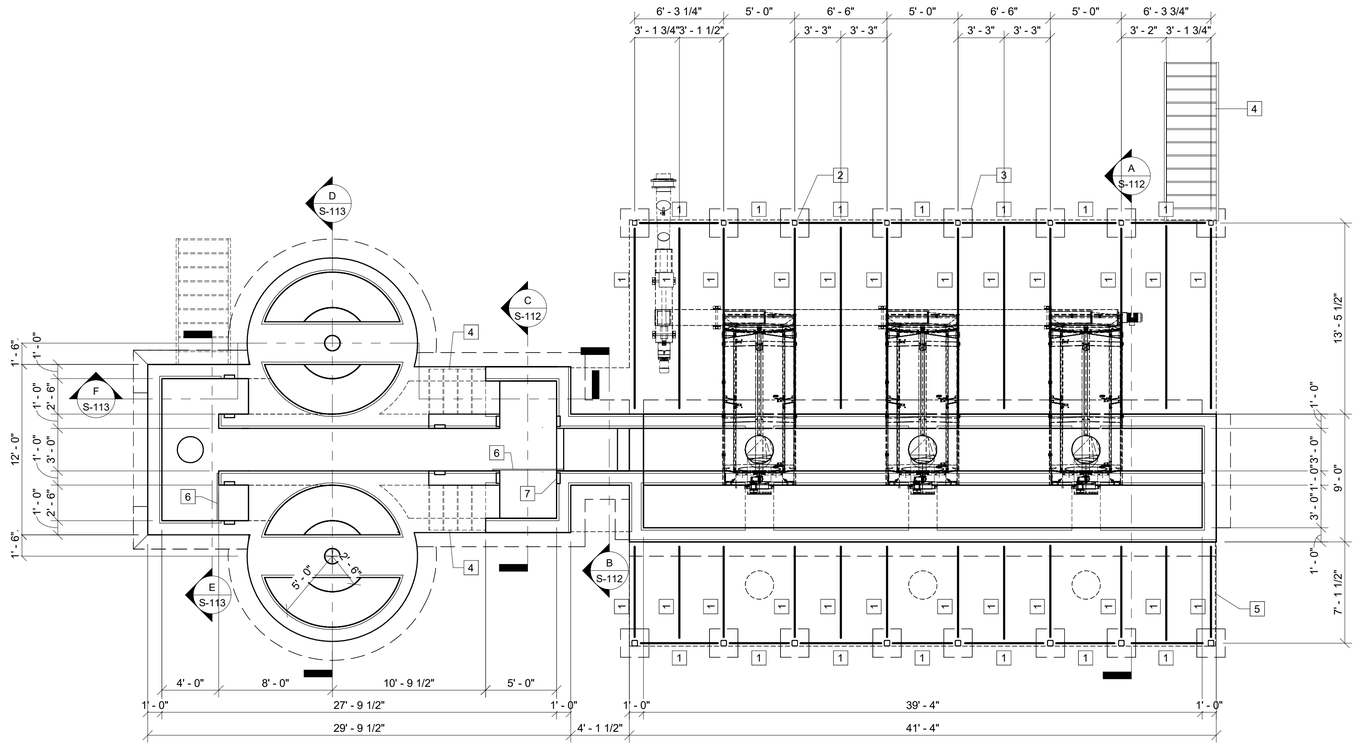

KEY NOTES: #

1. 6061-T6 ALUMINUM W10x11.4 GRATING SUPPORT BEAM
2. 6061-T6 ALUMINUM HSS4x4x1/4 COLUMN w/ 3/4"x12"x1'-0" BASE PLATE w/ (4) 3/4" DIA. x 1'-2" H.S. ANCHORS - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
3. CAST-IN-PLACE CONCRETE FOOTING 2'-0" x 2'-0" x 1'-0" THICK
4. PREFABRICATED STAIR - SEE PROCESS
5. EXTENTS OF WALKWAY GRATING - SEE PROCESS
6. 3/8" 6061-T6 ALUMINUM COVER PLATE - SEE S-002 FOR TYPICAL ATTACHMENT DETAILS
7. PROVIDE BLOCKOUTS FOR FUTURE EMBEDDED GATE FRAME - TYPICAL

1 S-111 **PLAN**
SCALE: 3/16" = 1'-0"

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HEADWORKS - PLAN

S-111

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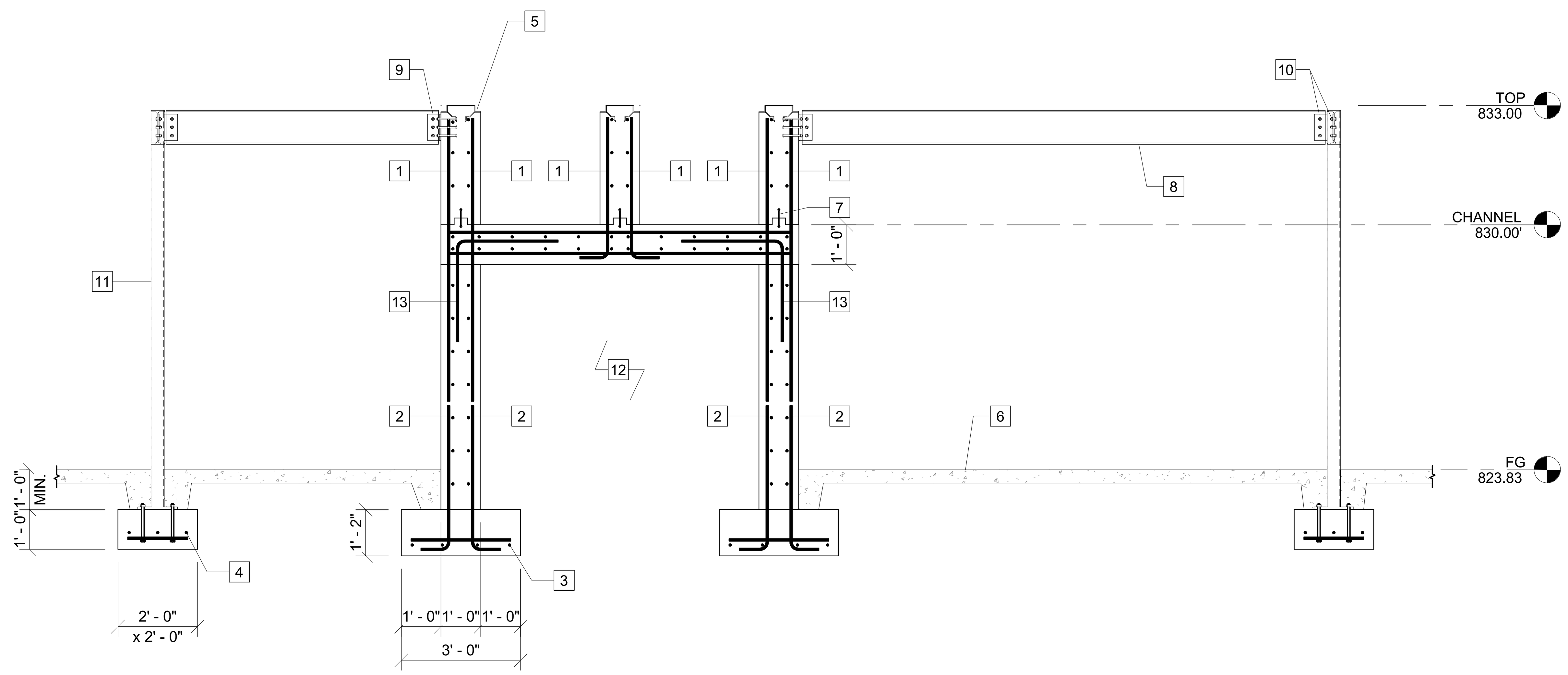
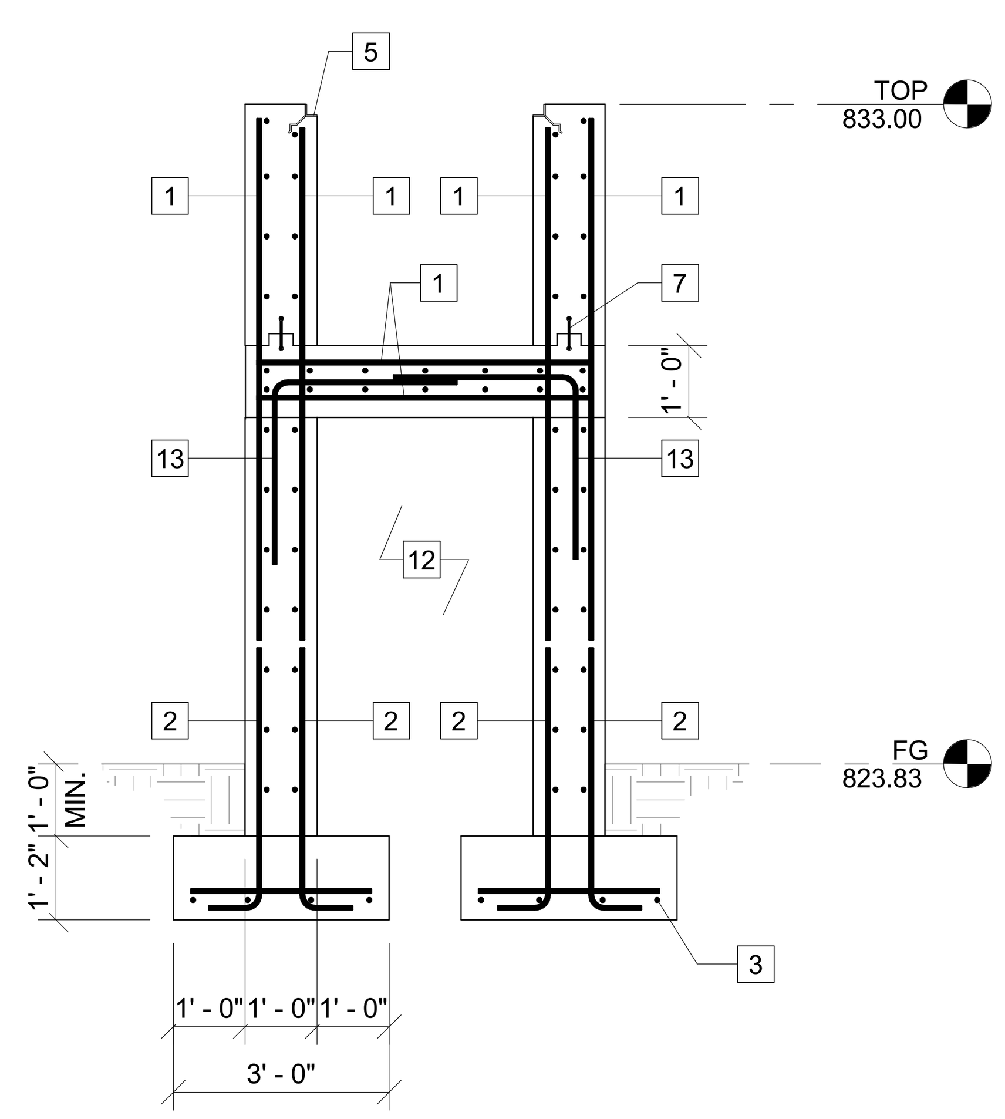
KEY NOTES: #

1. #5 @ 10" O.C. EACH WAY
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
3. (4) #5 CONT. w/ #5 TRANSVERSE @ 12" O.C.
4. (3) #5 EACH WAY
5. PREFABRICATED GRATING SEAT EMBED
6. CONCRETE PAVING - SEE CIVIL
7. 6" PVC WATERSTOP - TYPICAL
8. ALUMINUM GRATING SUPPORT BEAM - SEE PLAN
9. 6061-T6 ALUMINUM L4x4x3/8 w/ (3) 1/2" DIA. THRU-BOLTS INTO BEAM AND (3) 1/2" DIA. x 6" H.S. ANCHORS INTO WALL - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
10. 6061-T6 TAB PL 3/8"x4"x0'-8" w/ (3) 1/2" DIA. THRU-BOLTS - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
11. 6061-T6 ALUMINUM HSS4x4x1/4 w/ BASE PL 3/4"x12"x1'-0" w/ (4) 3/4" DIA. x 1'-2" H.S. ANCHORS - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
12. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
13. #4 x 2'-6" BENT BARS @ 30" MAX. O.C.
14. 3/8" 6061-T6 ALUMINUM COVER PLATE
15. BLOCK OUT FOR FUTURE GATE EMBED



A SECTION
S-111 SCALE: 3/8" = 1'-0"



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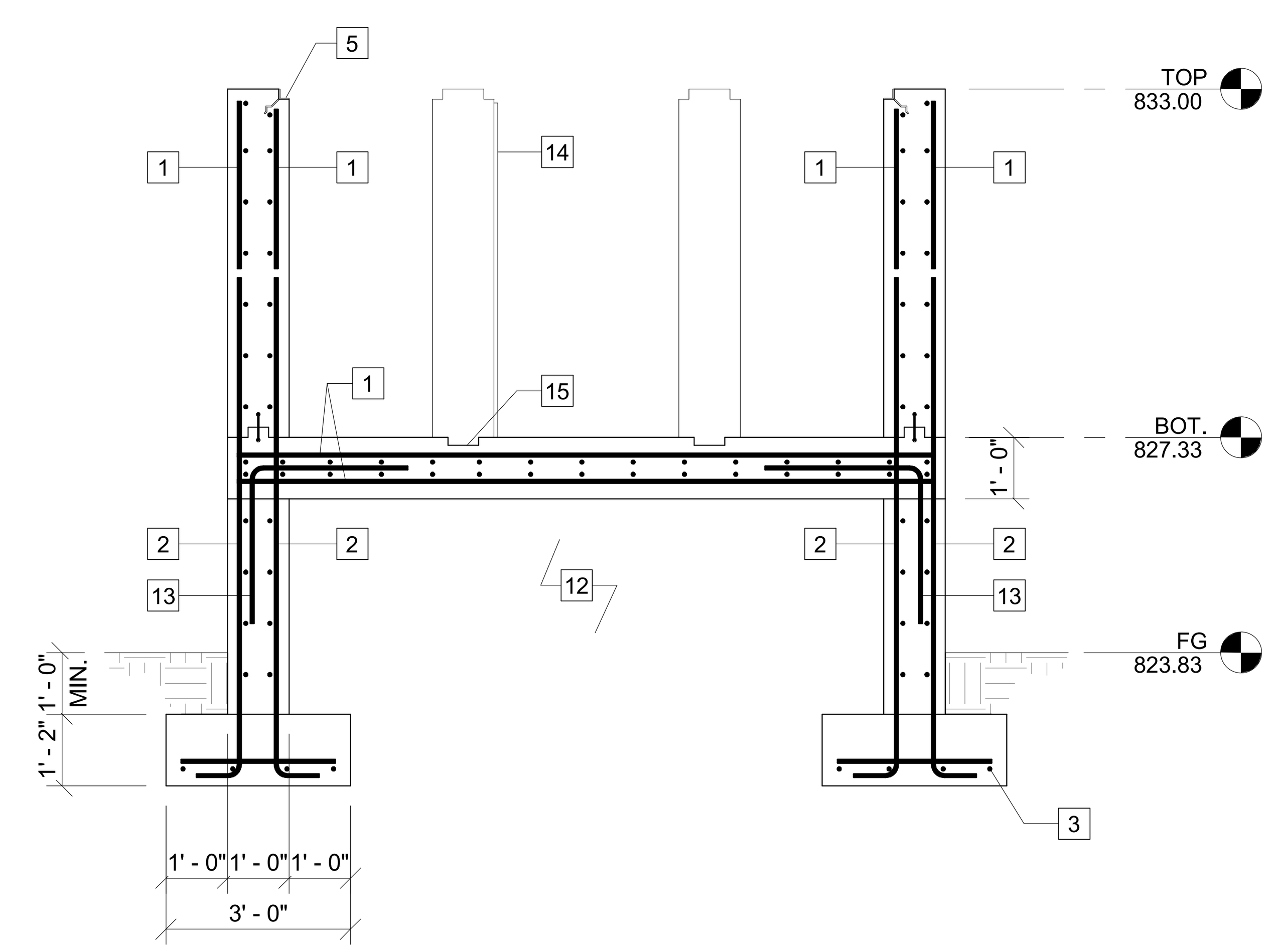

C SECTION
S-111 SCALE: 3/8" = 1'-0"

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HEADWORKS - SECTIONS

S-112

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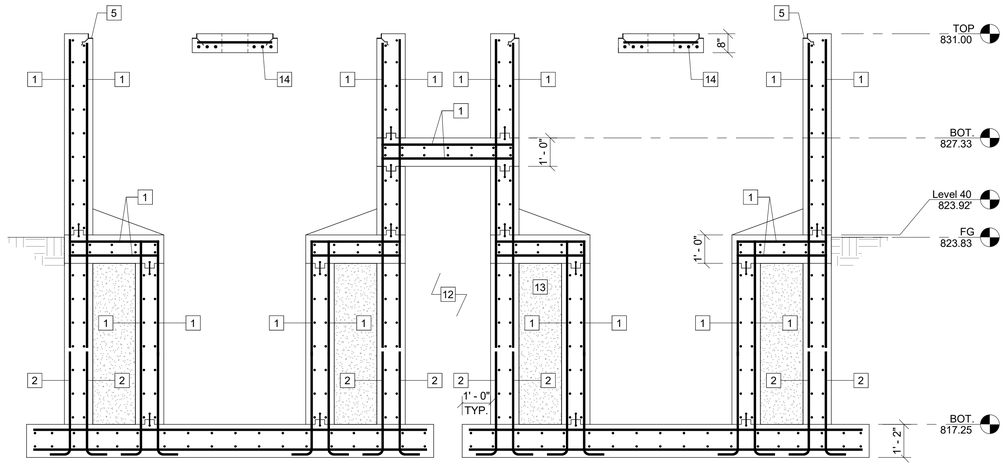
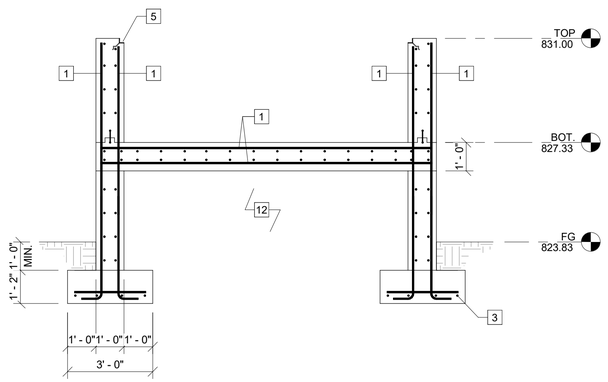


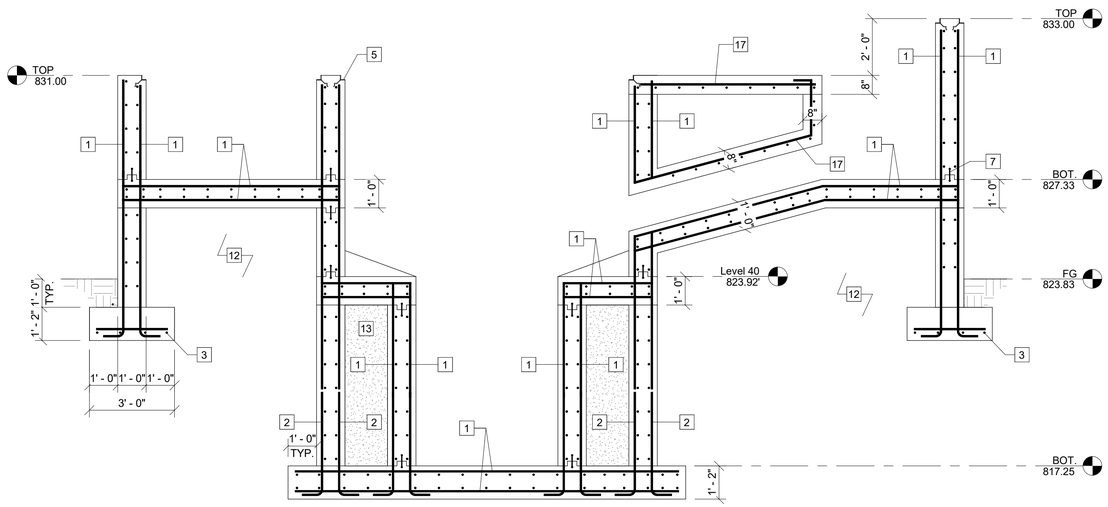
D **SECTION**
S-111 SCALE: 3/8" = 1'-0"

KEY NOTES: #

1. #5 @ 10" O.C. EACH WAY
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
3. (4) #5 CONT. w/ #5 TRANSVERSE @ 12" O.C.
4. (3) #5 EACH WAY
5. PREFABRICATED GRATING SEAT EMBED
6. CONCRETE PAVING - SEE CIVIL
7. 6" PVC WATERSTOP - TYPICAL
8. ALUMINUM GRATING SUPPORT BEAM - SEE PLAN
9. 6061-T6 ALUMINUM L4x4x3/8 w/ (3) 1/2" DIA. THRU-BOLTS INTO BEAM AND (3) 1/2" DIA. x 6" H.S. ANCHORS INTO WALL - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
10. 6061-T6 TAB PL 3/8"x4"x0'-8" w/ (3) 1/2" DIA. THRU-BOLTS - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
11. 6061-T6 ALUMINUM HSS4x4x1/4 w/ BASE PL 3/4"x12"x1'-0" w/ (4) 3/4" DIA. x 1'-2" H.S. ANCHORS - SEPARATION MEMBRANE REQUIRED BETWEEN ALUMINUM AND STEEL
12. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
13. CLEAN COMPACTED GRANULAR FILL
14. (6) #8 CONTINUOUS w/ #5 TRANSVERSE @ 12" MAX. O.C.
15. #5 @ 12" MAX. O.C. EACH WAY - CENTERED IN SLAB
16. (3) #5 CONTINUOUS w/ #3 TRANSVERSE @ 24" MAX. O.C.
17. #5 @ 10" MAX. O.C. EACH WAY - CENTERED IN SLAB



E **SECTION**
S-111 SCALE: 3/8" = 1'-0"



F **SECTION**
S-111 SCALE: 3/8" = 1'-0"

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Engineer: JD
Designer: TS
Drawn By: JD

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GMC PROJECT #CATL230033

GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH W. WEATHERSBEE

HEADWORKS - SECTIONS

S-113

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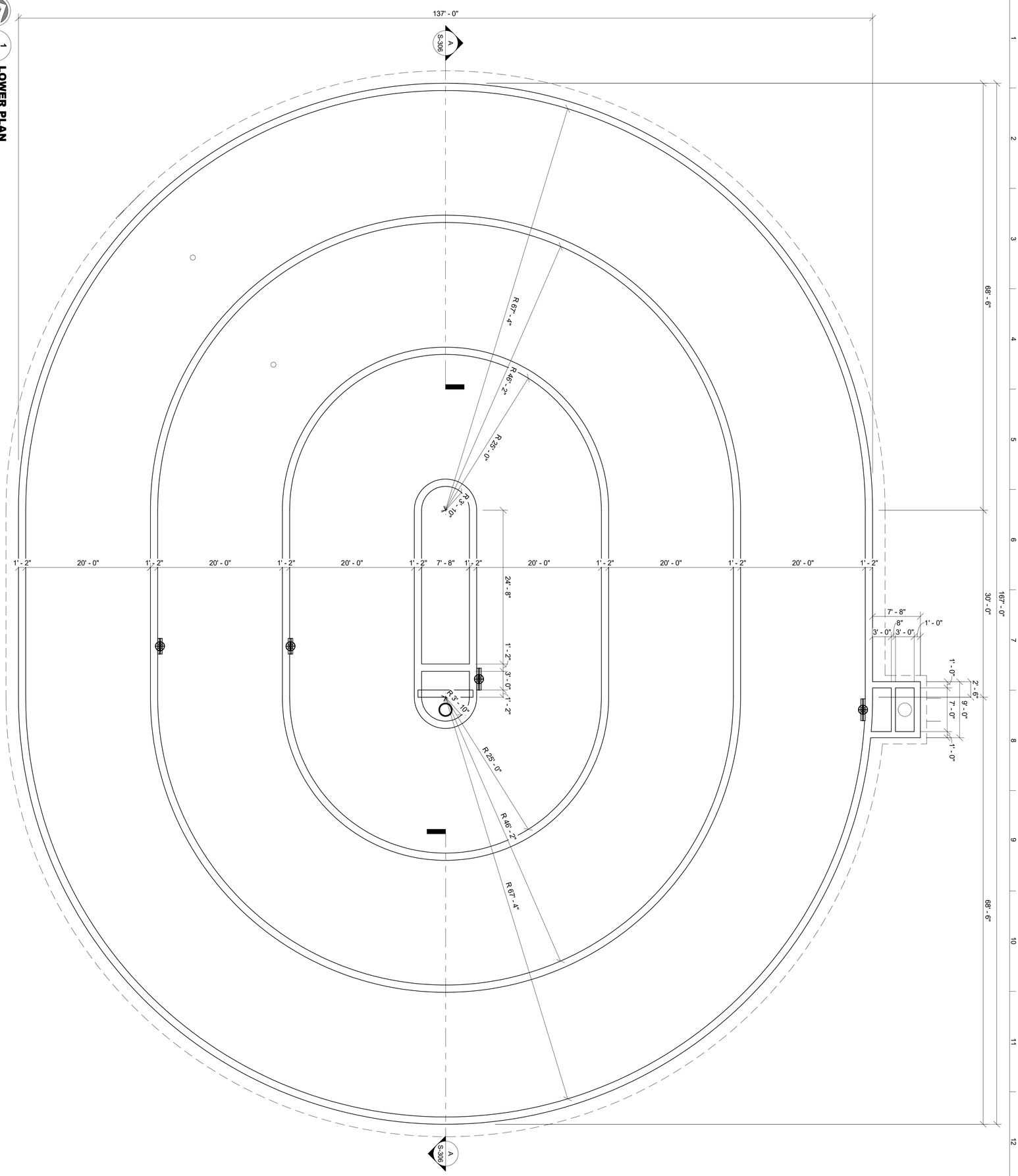
1 S-301 **LOWER PLAN**
SCALE: 1/8" = 1'-0"



KEY NOTES: [#]

ORBAL AERATION - LOWER PLAN

S-301

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE No. 19936

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

GMC PROJECT #CATL230033

ISSUE	DATE
90% Submittal	11.27.24
Bid Set	03.19.25
Conformed Set	
Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

STATE OF GEORGIA GOODWYN MILLS CAWOOD, LLC No.PEF007898 Exp.06.30.2026 CERTIFICATE OF AUTHORIZATION

1" .5" 0" 1"

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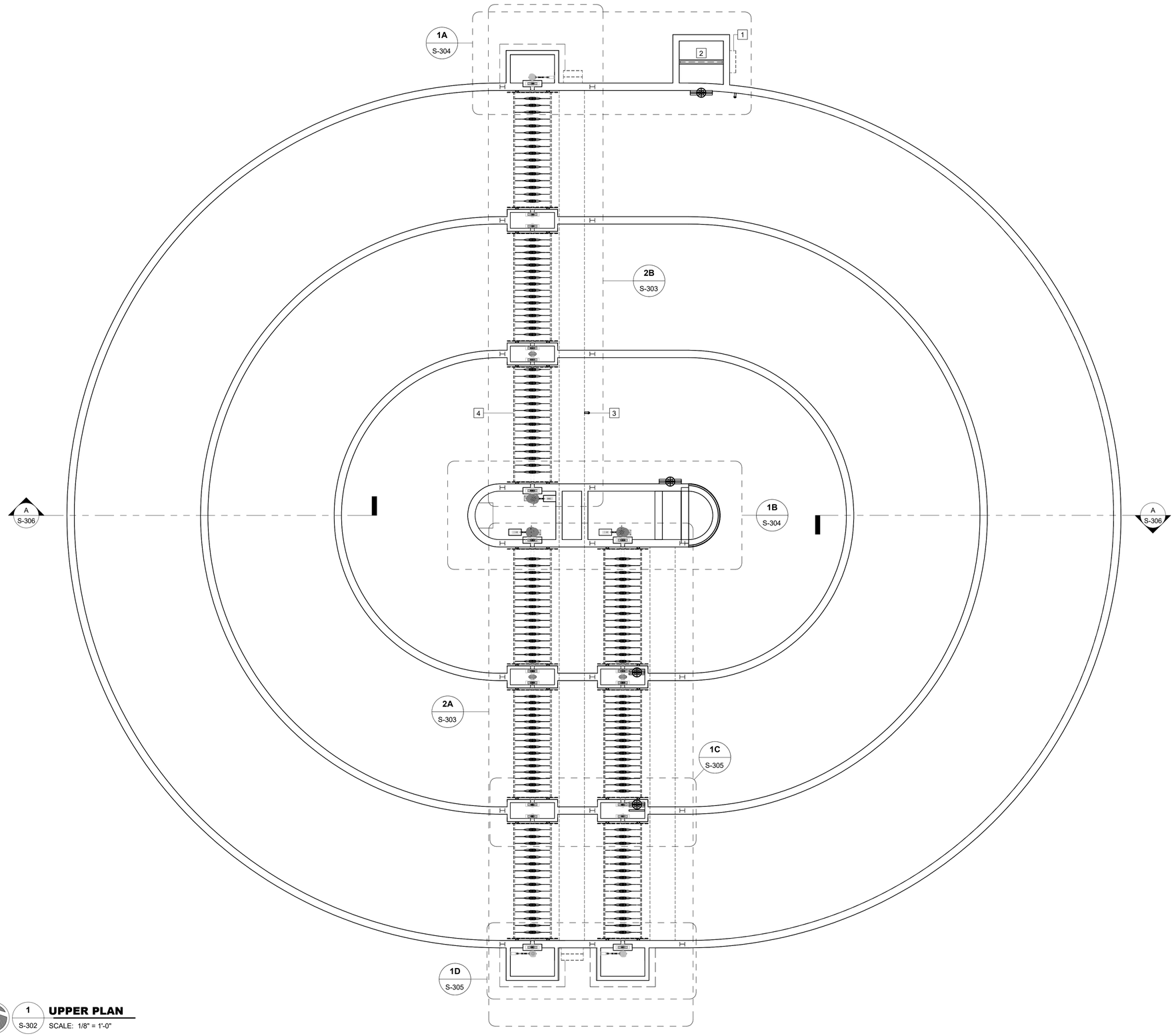

KEY NOTES: #

1. PREFABRICATED STAIR BY OTHERS - SEE PROCESS
2. 6061-T6 ALUMINUM W8x5.9 GRATING SUPPORT BEAM
3. EXTENTS OF WALKWAY GRATING - SEE PROCESS
4. ORBAL EQUIPMENT BY OTHERS - SEE PROCESS

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1" 0" .5" 1"

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Drawn By:	JD

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GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

ORBAL AERATION - UPPER PLAN

S-302

1 S-302 **UPPER PLAN**
SCALE: 1/8" = 1'-0"

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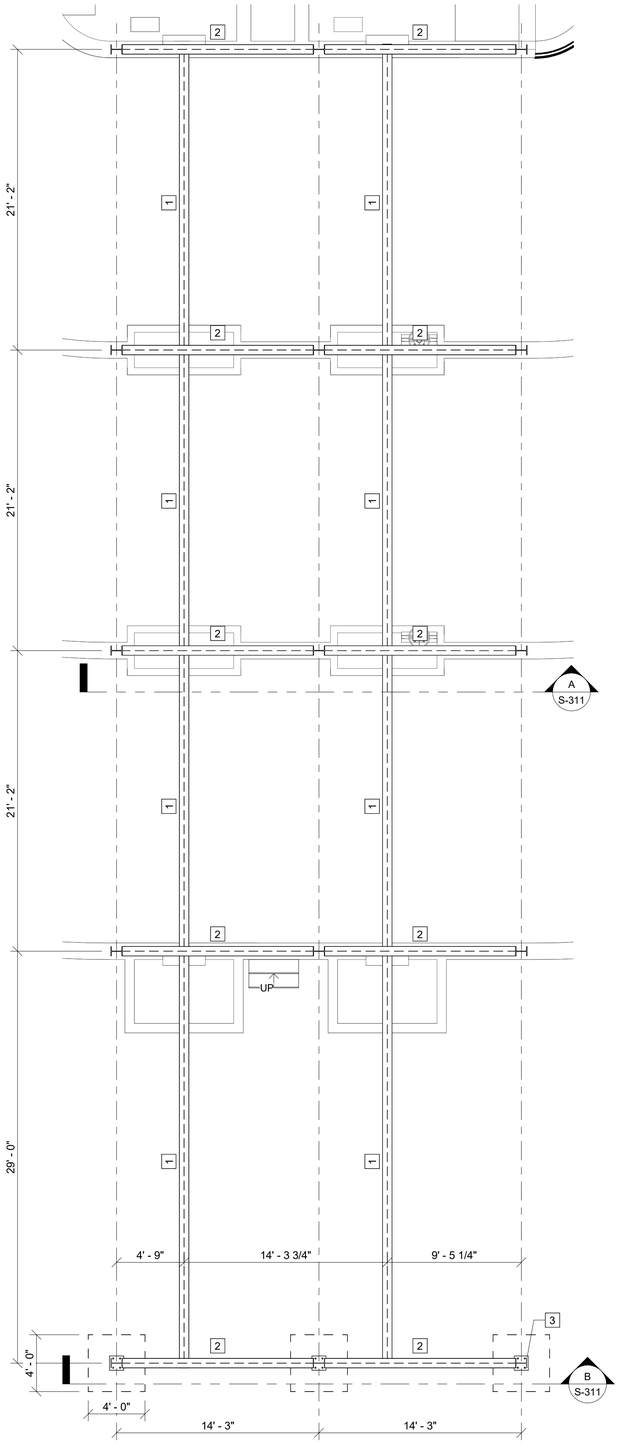
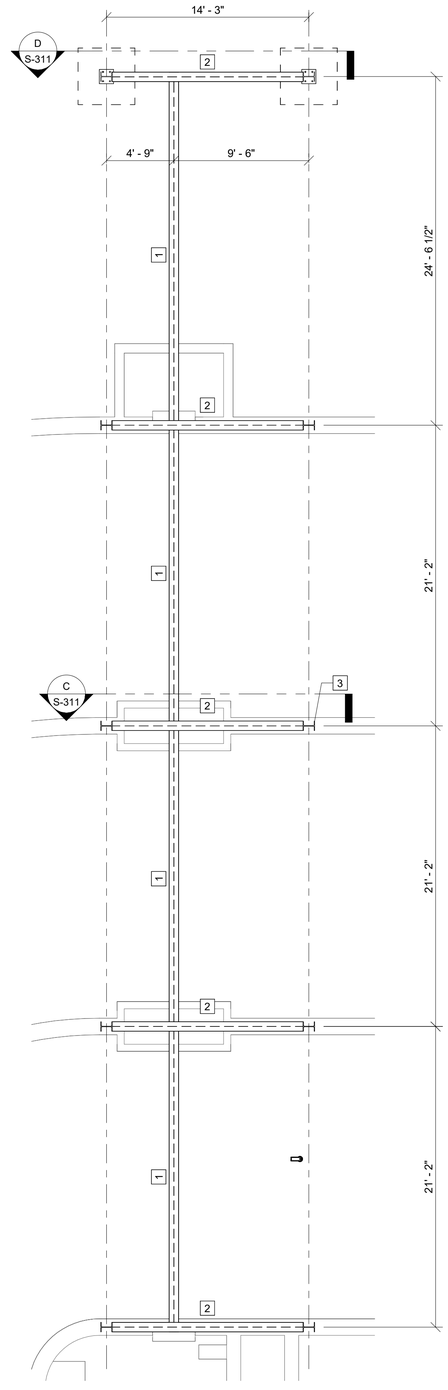


2A S-302 **TROLLEY FRAME PARTIAL PLAN**

SCALE: 3/16" = 1'-0"



2B S-302 **TROLLEY FRAME PARTIAL PLAN**

SCALE: 3/16" = 1'-0"

KEY NOTES: #

1. 316SS W12x40 TROLLEY BEAM
2. 316SS W10x30 TROLLEY SUPPORT BEAM
3. 316SS W8x21 TROLLEY SUPPORT COLUMN

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GMC PROJECT #CATL230033

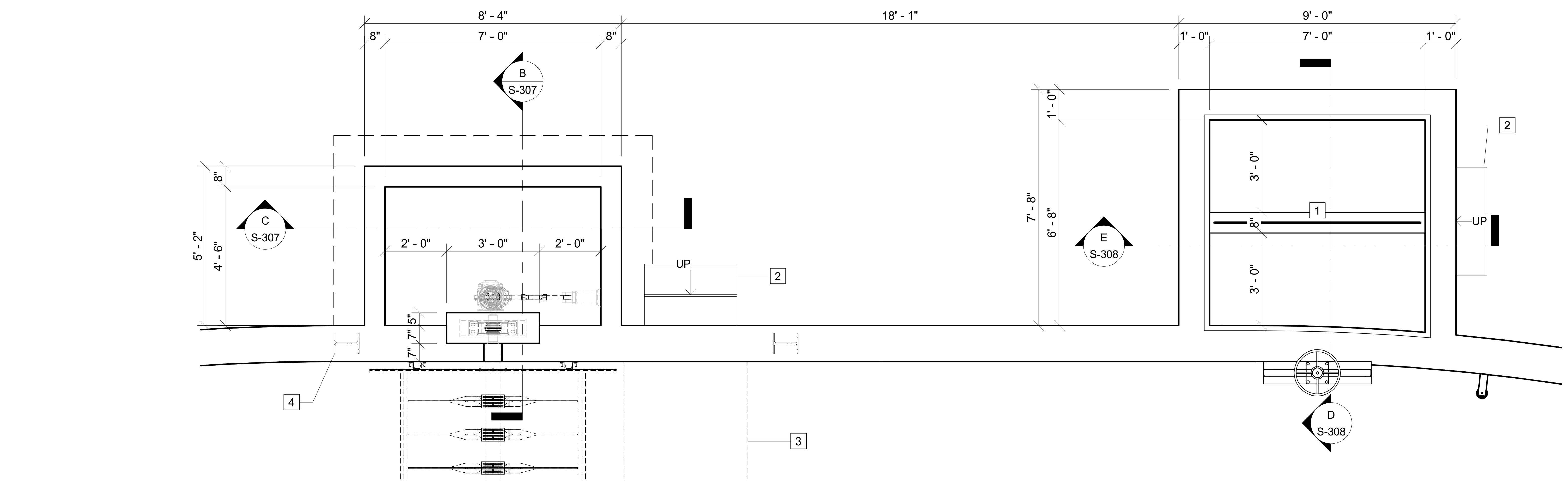
GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

ORBAL AERATION - TROLLEY FRAME PLAN

S-303

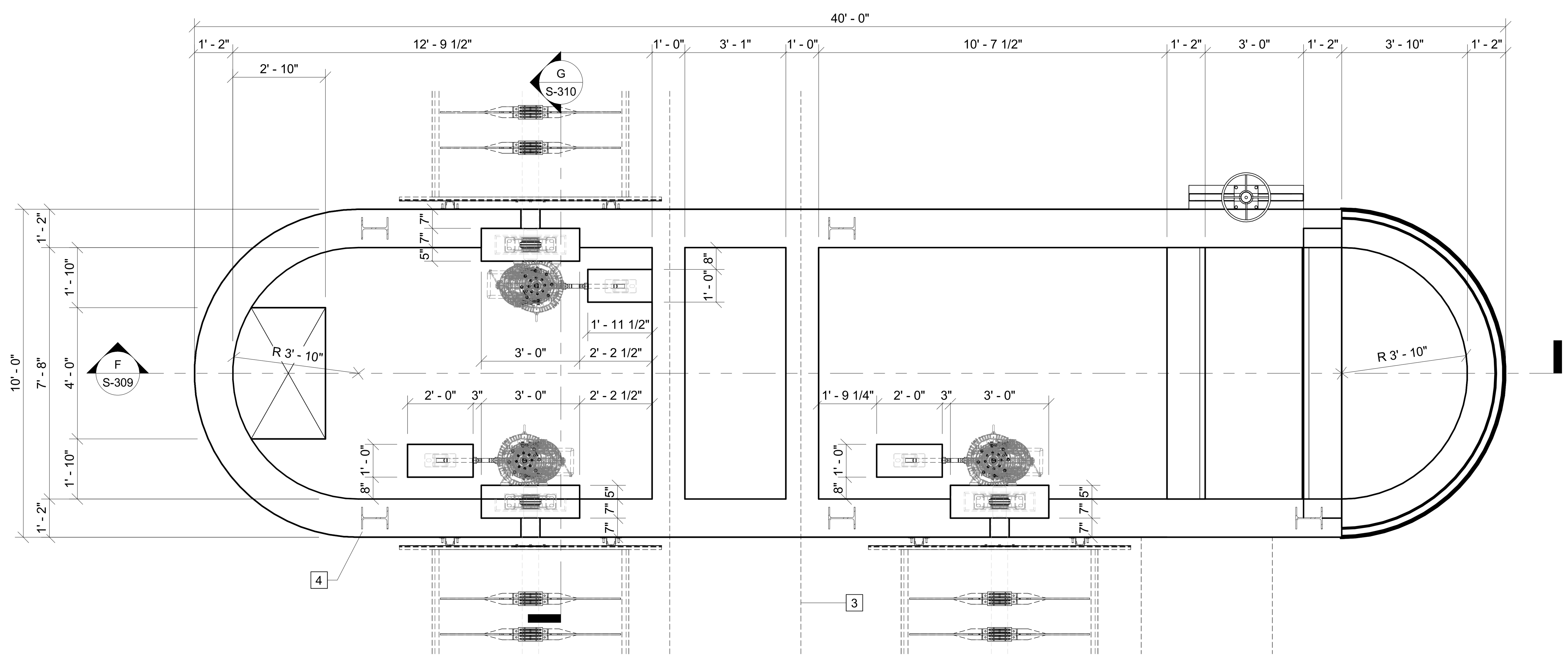
KEY NOTES: #

1. 6061-T6 ALUMINUM W8x5.9 GRATING SUPPORT BEAM
2. PRE-FABRICATED STAIR - SEE PROCESS
3. EXTENTS OF WALKWAY GRATING - SEE PROCESS
4. TROLLEY FRAME COLUMN (TYPICAL) - SEE S-303 FOR DETAILS



1A S-302 **EFFLUENT PLAN**

SCALE: 3/8" = 1'-0"



1B S-302 **CENTER ISLAND PLAN**

SCALE: 3/8" = 1'-0"

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GMC PROJECT #CATL230033

GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

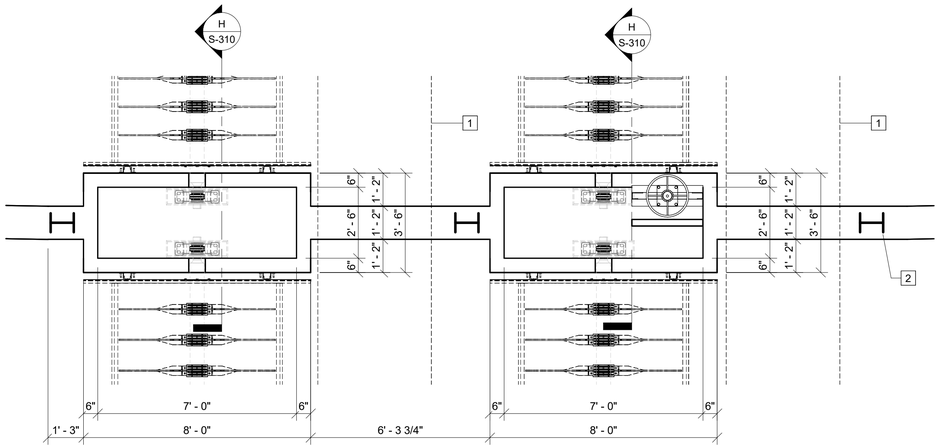
ORBAL AERATION - ENLARGED PLANS

S-304

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce Orbal Basin.rvt
3/19/2025 8:21:08 AM

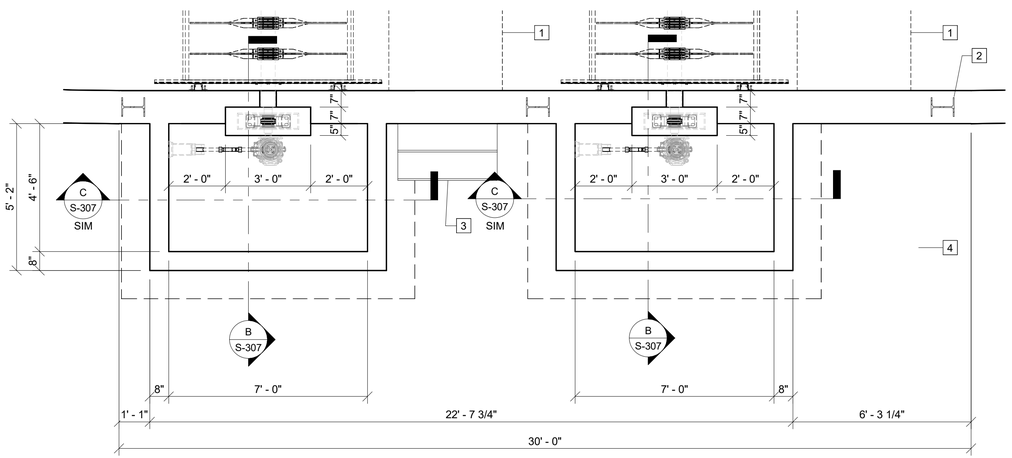
KEY NOTES: [#]

1. EXTENTS OF WALKWAY GRATING - SEE PROCESS
2. TROLLEY FRAME COLUMN (TYPICAL) - SEE S-303 FOR DETAILS
3. PRE-FABRICATED STAIR - SEE PROCESS



1C S-302 **AERATOR SUPPLY PLAN**

SCALE: 3/8" = 1'-0"



1D S-302 **INFLUENT PLAN**

SCALE: 3/8" = 1'-0"

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ISSUE	DATE	
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Conformed Set		TS
		JD

Project Manager:
Engineer:
Designer:
Drawn By:

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COMMERCE, GA

GMC PROJECT #CATL230033

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No. 19935
PROFESSIONAL
ENGINEER
JOSEPH W. WEATHERSBEE

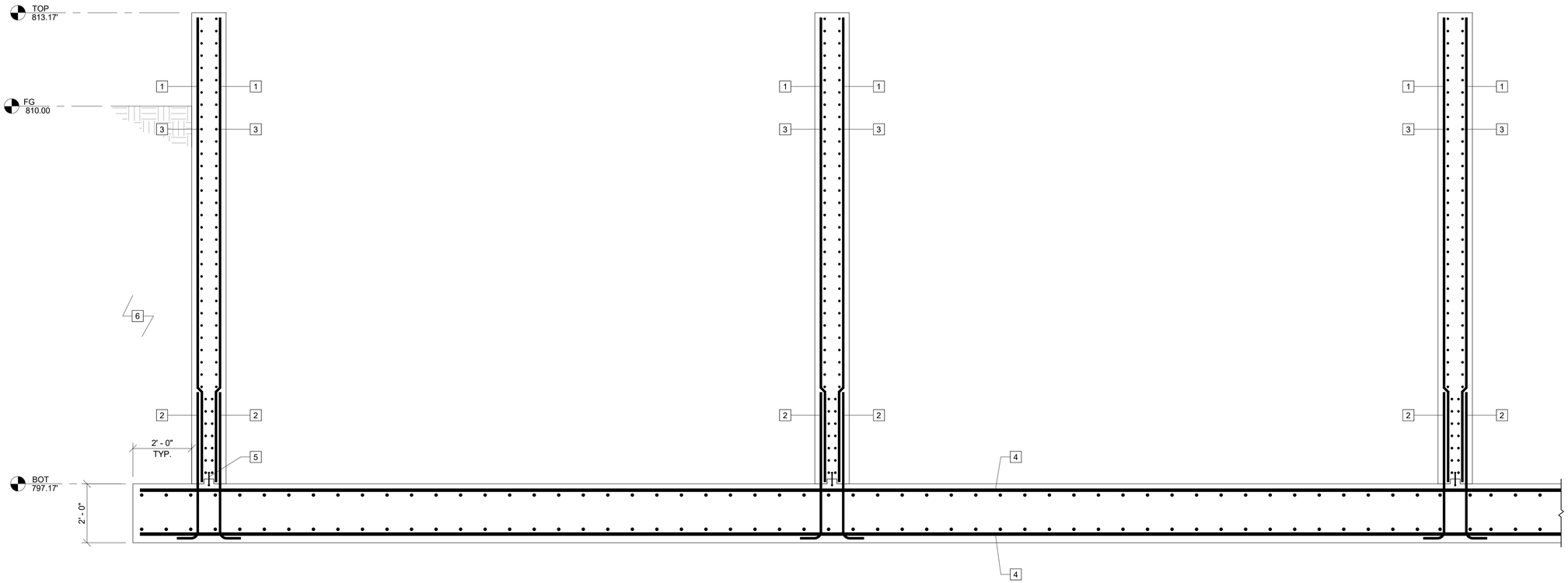
ORBAL AERATION - ENLARGED PLANS

S-305

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce Orbal Basin.rvt
3/19/2025 8:21:13 AM

KEY NOTES: [#]

1. #6 VERTICAL @ 10" MAX. O.C.
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCMENT
3. #6 HORIZONTAL @ 5" MAX. O.C.
4. #9 @ 10" MAX. O.C. EACH WAY
5. 6" PVC WATERSTOP - TYPICAL
6. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER



A
S-301
SECTION
SCALE: 1/2" = 1'-0"

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1" 0" .5" 1"

ISSUE	DATE	
90% Submittal	11.27.24	GS
Bid Set	03.19.25	JD
Conformed Set		TS
		JD

Project Manager:
Engineer:
Designer:
Drawn By:

COMMERCE 2.0 MGD
GROVE CREEK WPCP
COMMERCE, GA

GMC PROJECT #CATL230033

GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

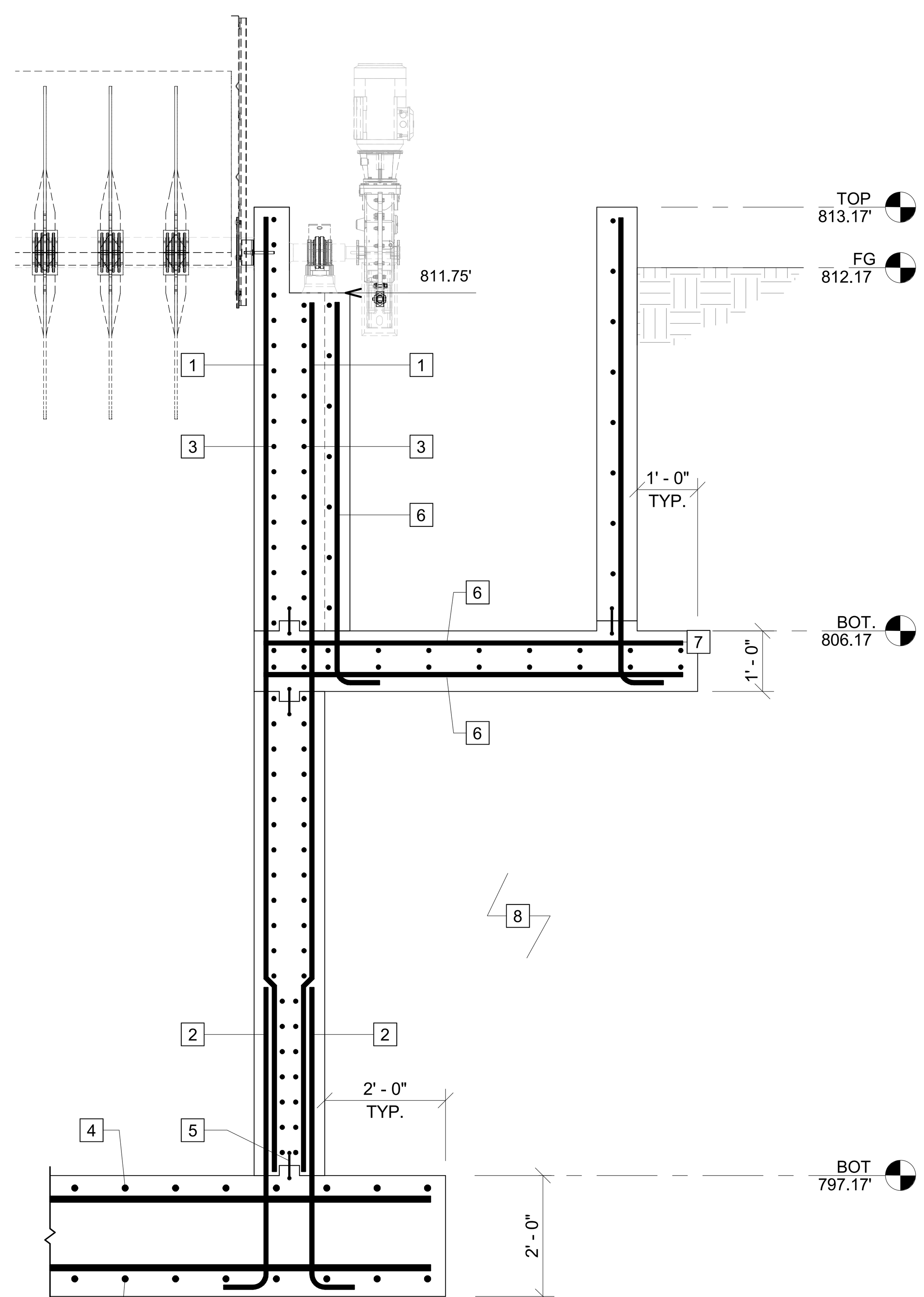
ORBAL AERATION - SECTIONS

S-306

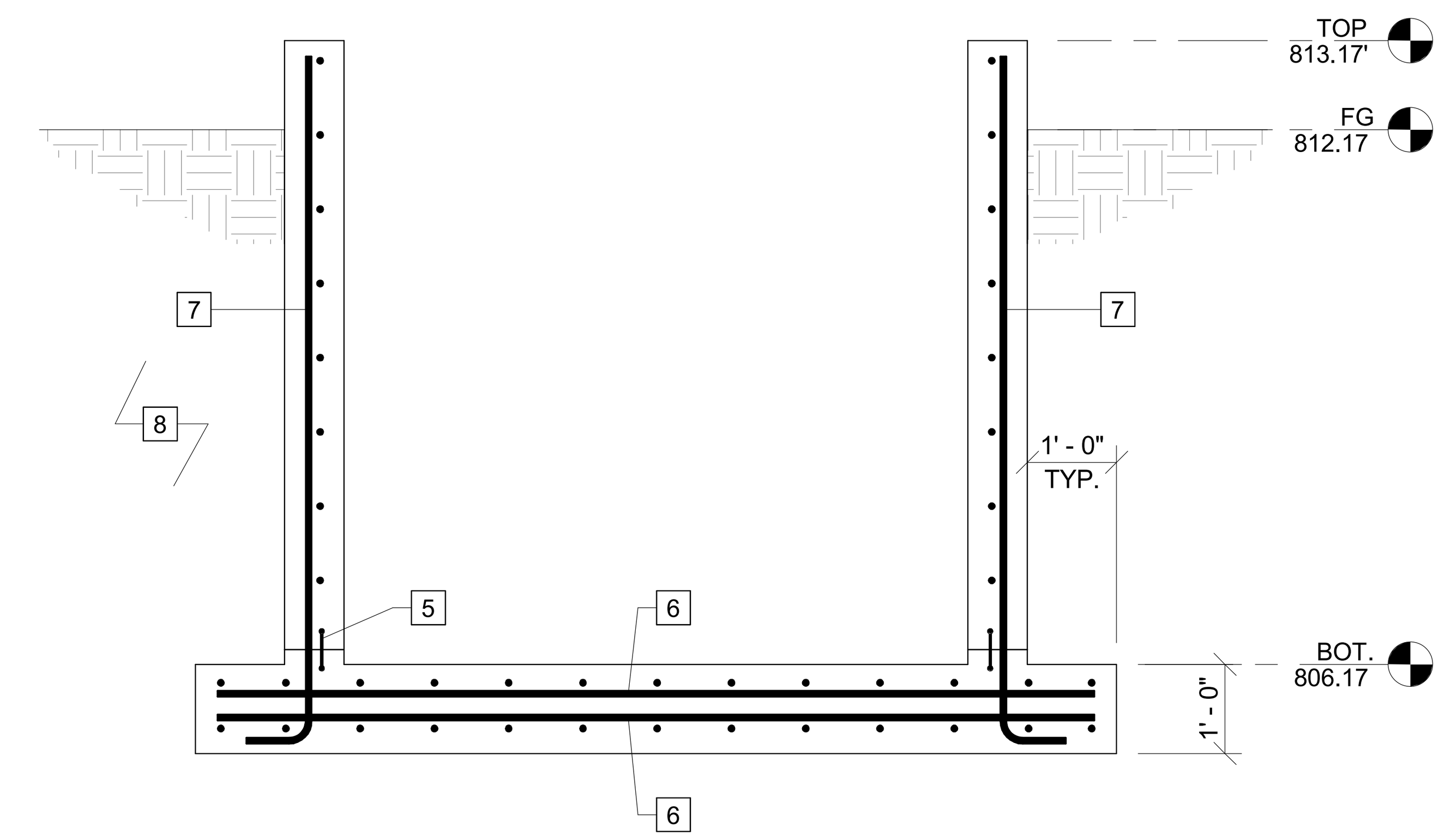
Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce Orbal Basin.rvt
3/19/2025 8:21:13 AM

KEY NOTES: #

1. #6 VERTICAL @ 10" MAX. O.C.
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCMENT
3. #6 HORIZONTAL @ 5" MAX. O.C.
4. #9 @ 10" MAX. O.C. EACH WAY
5. 6" PVC WATERSTOP - TYPICAL
6. #6 @ 10" MAX. O.C. EACH WAY
7. #6 @ 10" MAX. O.C. EACH WAY - CENTERED IN WALL
8. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER



B S-304 **SECTION**
SCALE: 1/2" = 1'-0"



C S-304 **SECTION**
SCALE: 1/2" = 1'-0"

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Conformed Set	

Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

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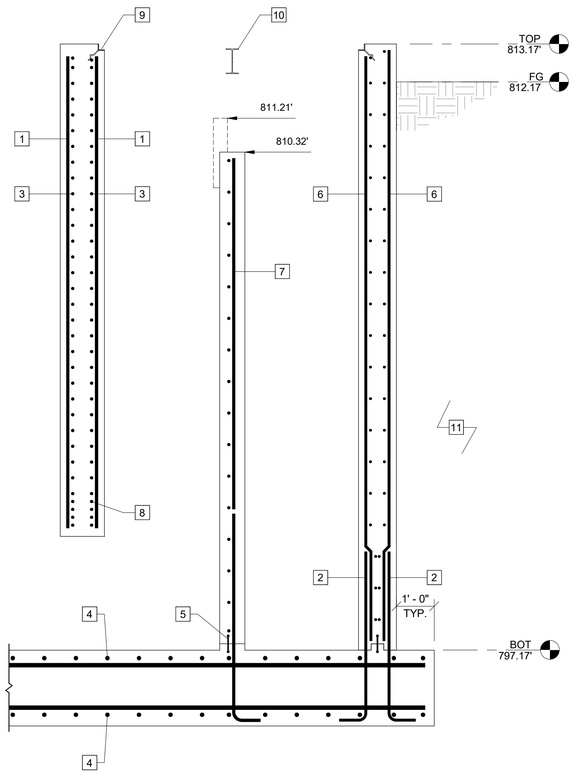
ORBAL AERATION - SECTIONS

S-307

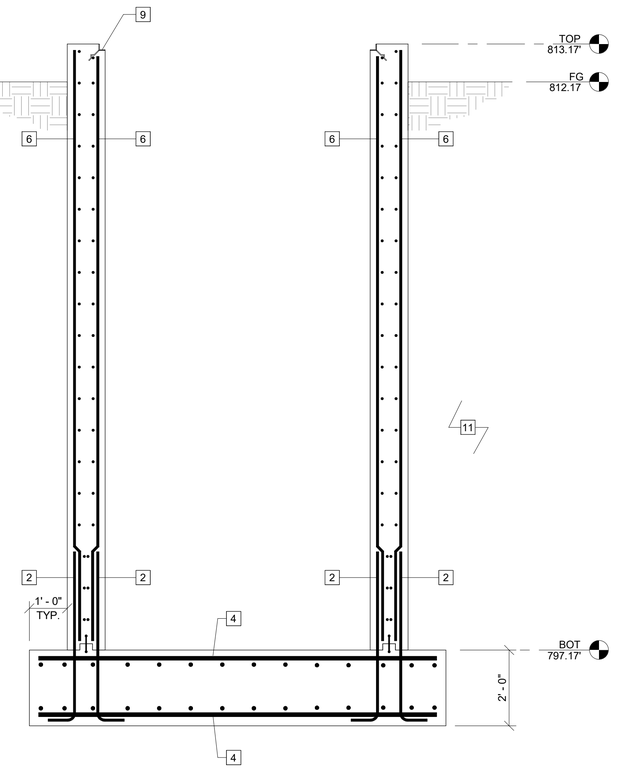
Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce Orbal Basin.rvt
3/19/2025 8:21:14 AM

KEY NOTES: [#]

1. #6 VERTICAL @ 10" MAX. O.C.
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCMENT
3. #6 HORIZONTAL @ 5" MAX. O.C.
4. #9 @ 10" MAX. O.C. EACH WAY
5. 6" PVC WATERSTOP - TYPICAL
6. #5 @ 10" MAX. O.C. EACH WAY
7. #6 @ 10" MAX. O.C. EACH WAY - CENTERED IN WALL
8. ADDITIONAL REINFORCEMENT OVER OPENING - SEE S-001 FOR DETAILS
9. PREFABRICATED GRATING SEAT EMBED -TYPICAL
10. ALUMINUM GRATING SUPPORT BEAM - SEE PLAN
11. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER



D **SECTION**
S-304 SCALE: 1/2" = 1'-0"



E **SECTION**
S-304 SCALE: 1/2" = 1'-0"

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1" 0" .5" 1"

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Conformed Set	

Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

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GMC PROJECT #CATL230033

STATE OF GEORGIA
REGISTERED
No. 19935
PROFESSIONAL
ENGINEER
JOSEPH D. WEATHERSBEE

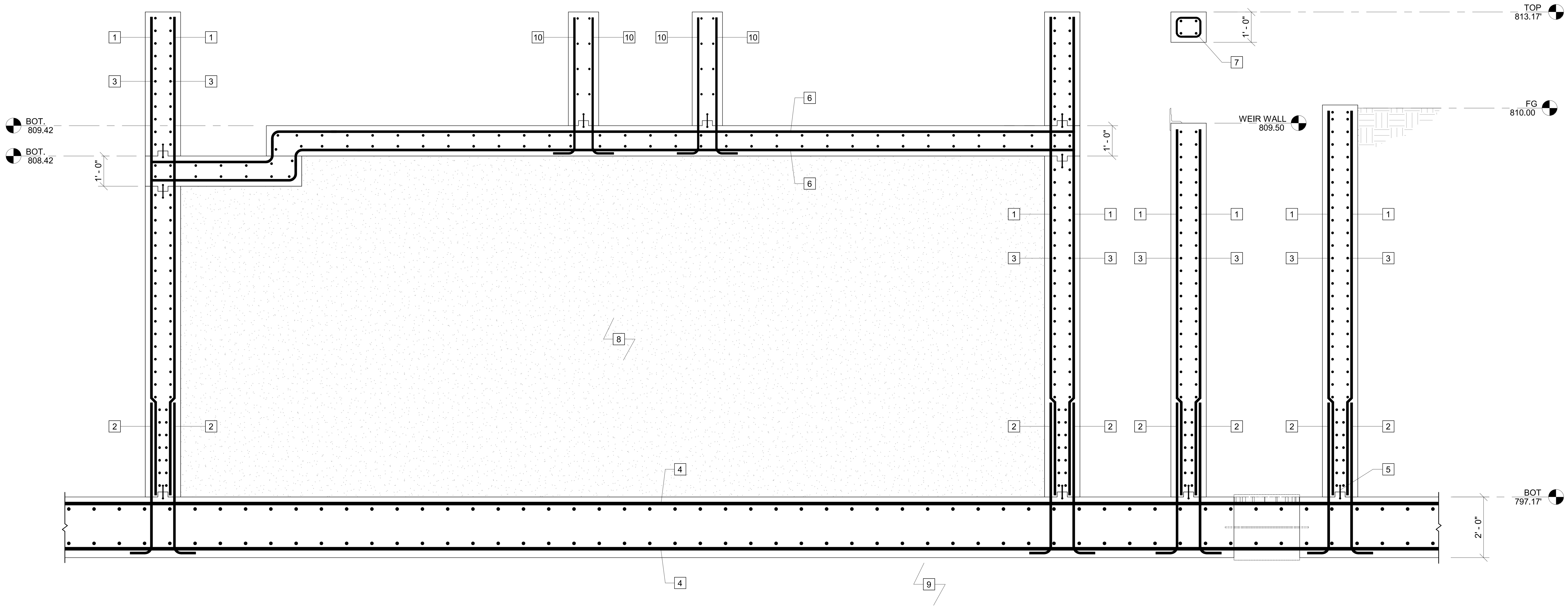
ORBAL AERATION - SECTIONS

S-308

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce Orbal Basin.rvt
3/19/2025 8:21:14 AM

KEY NOTES: #

1. #6 VERTICAL @ 10" MAX. O.C.
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCMENT
3. #6 HORIZONTAL @ 5" MAX. O.C.
4. #9 @ 10" MAX. O.C. EACH WAY
5. 6" PVC WATERSTOP - TYPICAL
6. #6 @ 10" MAX. O.C. EACH WAY
7. (2) #6 TOP & BOTTOM w/ #3 STIRRUPS @ 6" MAX. O.C.
8. CLEAN COMPACTED GRANULAR FILL
9. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
10. #5 @ 10" MAX. O.C. EACH WAY



F
S-304
SECTION
SCALE: 1/2" = 1'-0"

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Project Manager: GS
Engineer: JD
Designer: TS
Drawn By: JD

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COMMERCE, GA

GMC PROJECT #CATL230033

ORBAL AERATION - SECTIONS

S-309

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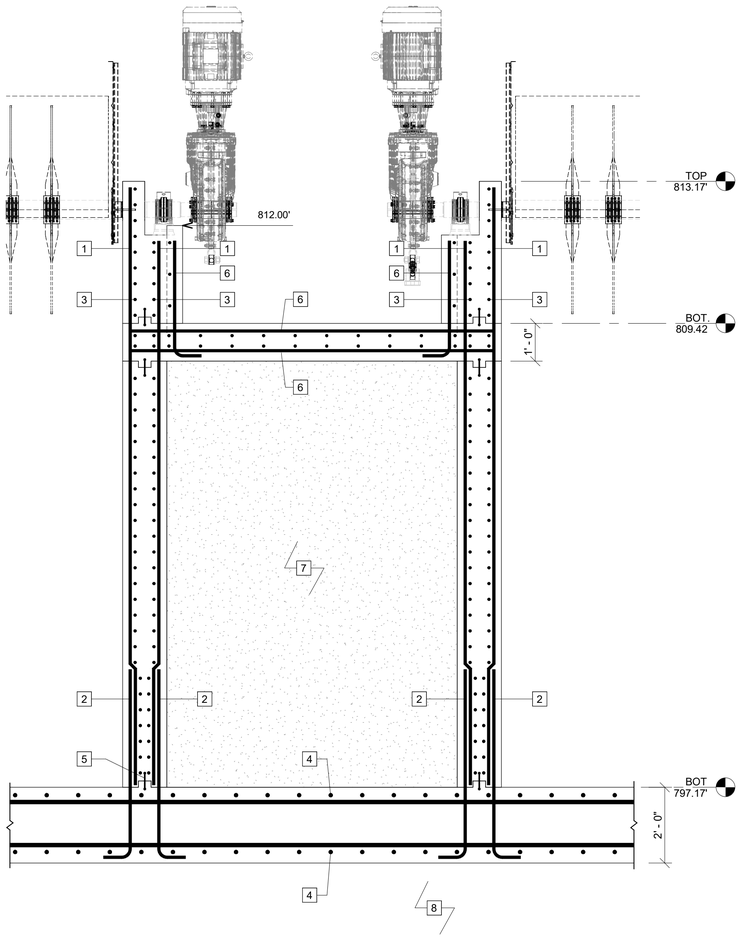
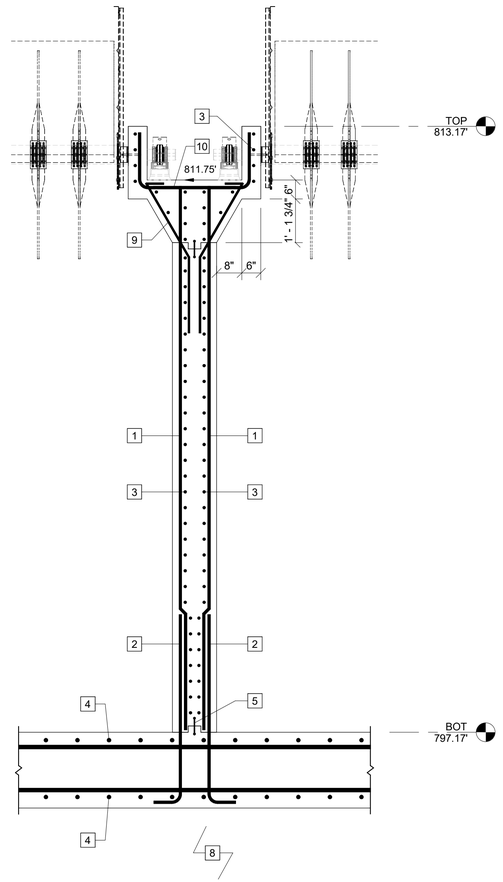


G **SECTION**
S-304 SCALE: 1/2" = 1'-0"



H **SECTION**
S-305 SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. #6 VERTICAL @ 10" MAX. O.C.
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCMENT
3. #6 HORIZONTAL @ 5" MAX. O.C.
4. #9 @ 10" MAX. O.C. EACH WAY
5. 6" PVC WATERSTOP - TYPICAL
6. #6 @ 10" MAX. O.C. EACH WAY
7. CLEAN COMPACTED GRANULAR FILL
8. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
9. #4 BENT BARS @ 10" MAX. O.C.
10. #5 BENT BARS @ 10" MAX. O.C.

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1" 0" .5" 1"

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Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

COMMERCE 2.0 MGD
GROVE CREEK WPCP
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GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

ORBAL AERATION - SECTIONS

S-310

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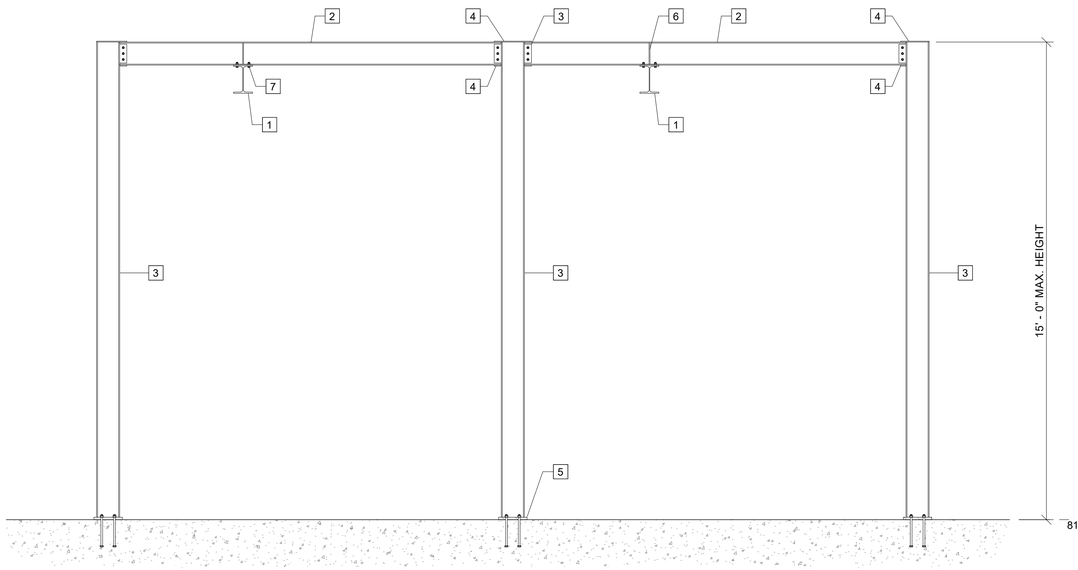
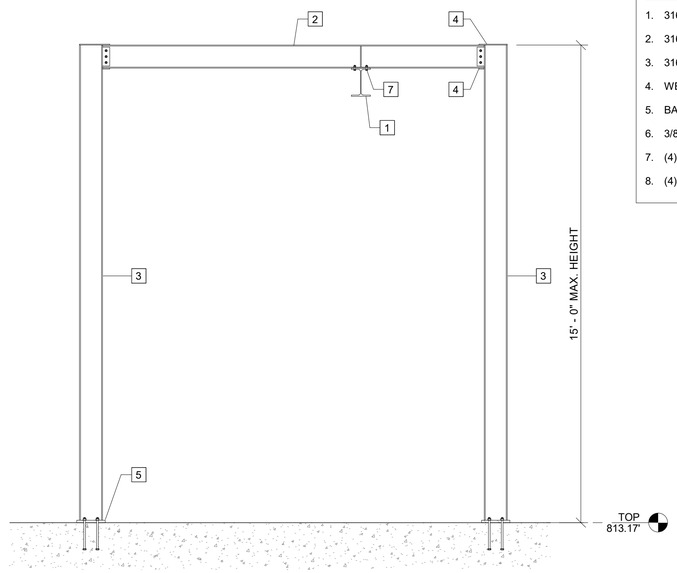


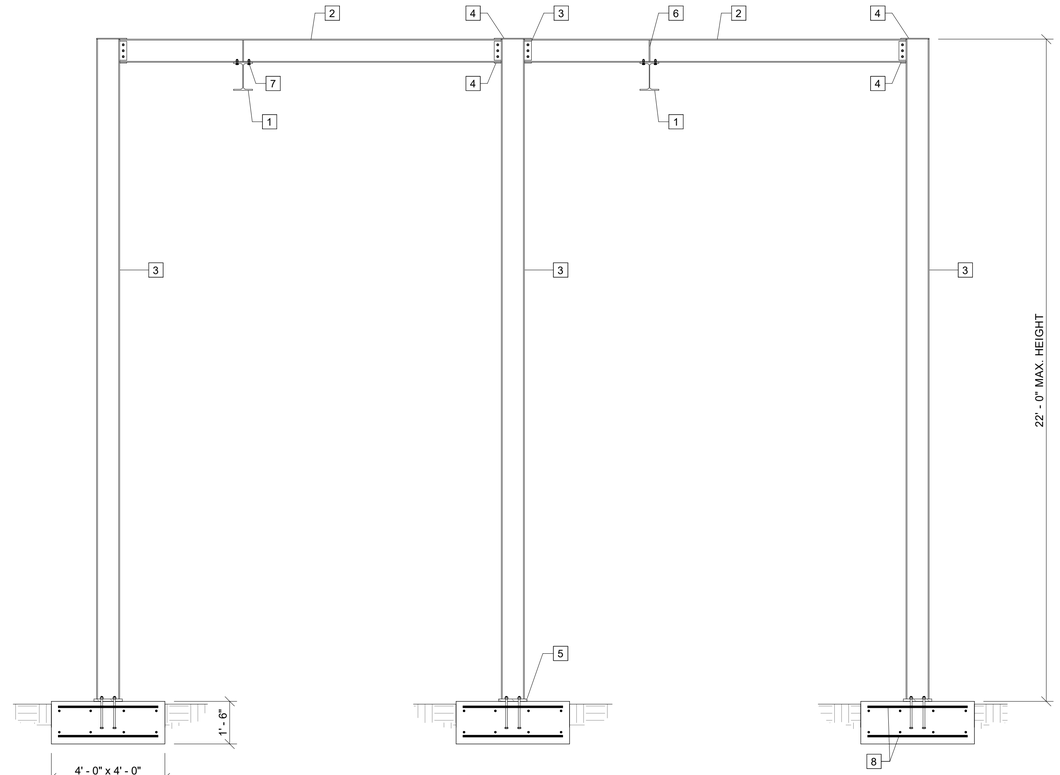
A S-303 **ELEVATION**
SCALE: 3/8" = 1'-0"



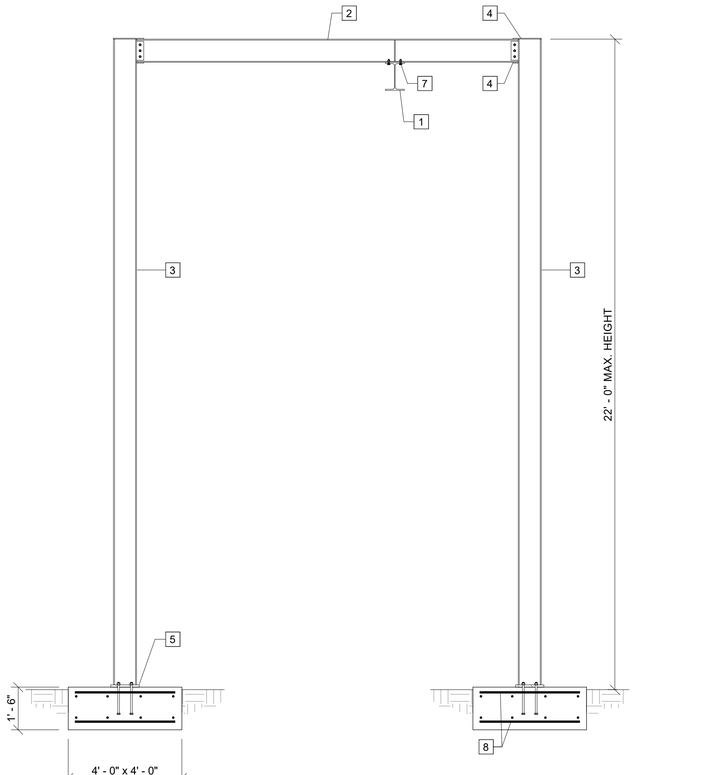
C S-303 **ELEVATION**
SCALE: 3/8" = 1'-0"

KEY NOTES: #

1. 316SS W12x40 TROLLEY BEAM
2. 316SS W10x30 TROLLEY SUPPORT BEAM
3. 316SS W8x21 TROLLEY SUPPORT COLUMN
4. WELD PL 3/8" x 3" x 0'-6"
5. BASE PL 1" x 12" x 1'-0" w/ (4) 3/4" DIA. x 1'-0" H.S. ANCHORS
6. 3/8" WEB STIFFENERS @ BEAM ATTACHMENT
7. (4) 1/2" DIA. THRU-BOLTS
8. (4) #6 EACH WAY TOP & BOTTOM



B S-303 **ELEVATION**
SCALE: 3/8" = 1'-0"



D S-303 **ELEVATION**
SCALE: 3/8" = 1'-0"

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Conformed Set		TS
		JD

Project Manager:
Engineer:
Designer:
Drawn By:

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GROVE CREEK WPCP
COMMERCE, GA

GMC PROJECT #CATL230033

GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH W. WEATHERSBEE

ORBAL AERATION - TROLLEY ELEVATIONS

S-311

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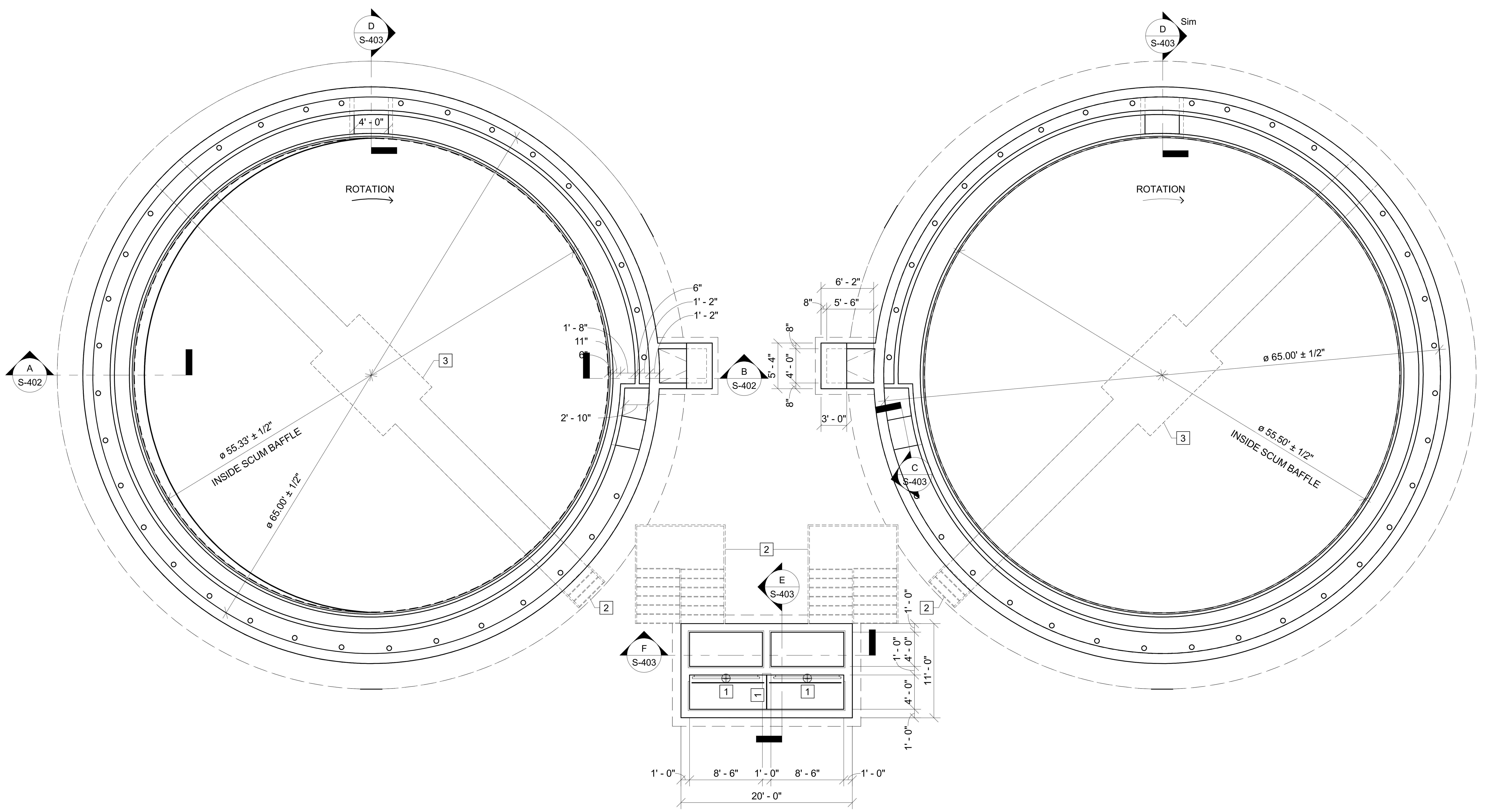
3/19/2025 8:21:29 AM

KEY NOTES: #

1. 6061-T6 ALUMINUM WF8x10.7 GRATING SUPPORT BEAM
2. PREFABRICATED STAIR BY OTHERS - SEE PROCESS
3. CLARIFIER EQUIPMENT & ACCESS WALK BY OTHERS - SEE PROCESS



1 UPPER PLAN
S-401 SCALE: 1/8" = 1'-0"

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GROVE CREEK WPCP
COMMERCE, GA

GMC PROJECT #CATL230033

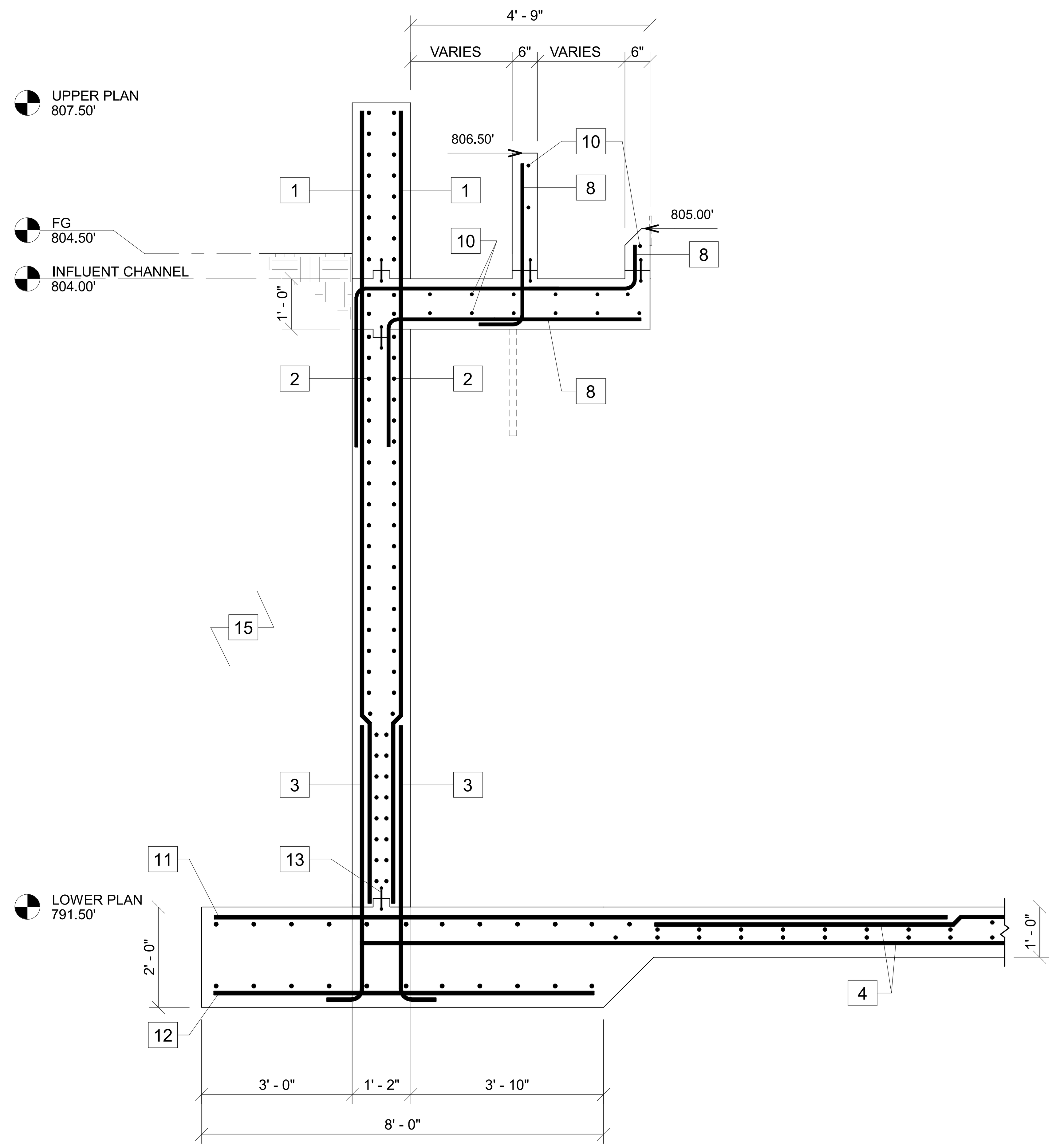
GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

CLARIFIERS & SPLITTER BOX - UPPER PLAN

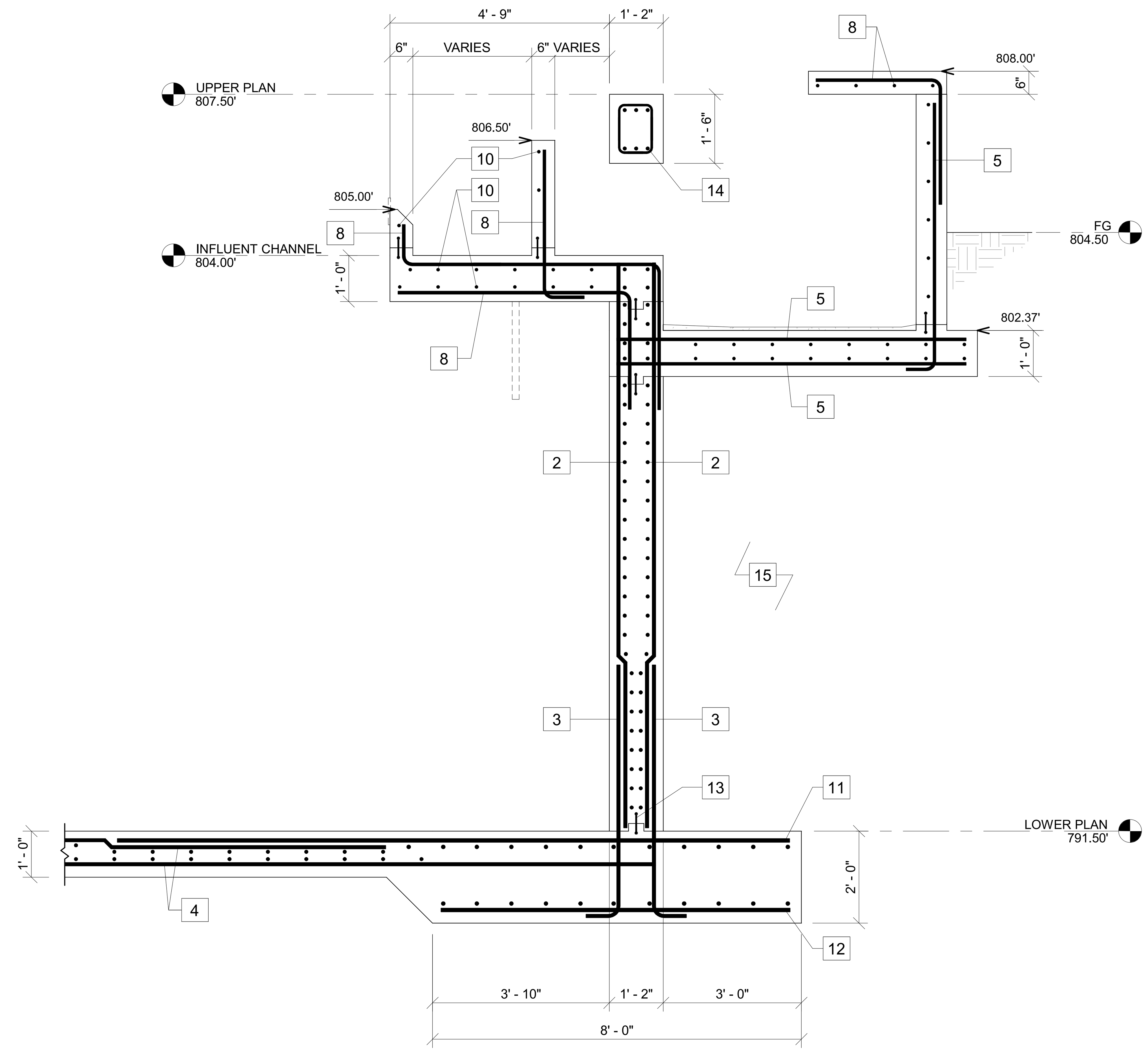
S-401

KEY NOTES: #

1. #6 VERTICAL @ 10" MAX. O.C.
2. #6 HORIZONTAL RADIUSED BARS @ 5" MAX. O.C.
3. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
4. #6 @ 10" MAX. O.C. EACH WAY
5. #5 @ 10" MAX. O.C. EACH WAY
6. #5 VERTICAL @ 10" MAX. O.C.
7. #5 HORIZONTAL @ 5" MAX. O.C.
8. #5 BENT BAR @ 10" MAX. O.C.
9. (5) #5 CONTINUOUS
10. #5 RADIUSED BARS @ 10" MAX. O.C.
11. (12) #7 RADIUSED BARS EQ. SPACED w/ #7 RADIAL @ 10" O.C. (MEASURED AT CENTERLINE OF WALL)
12. (11) #7 RADIUSED BARS EQ. SPACED w/ #7 RADIAL @ 10" O.C. (MEASURED AT CENTERLINE OF WALL)
13. 6" PVC WATERSTOP - TYPICAL
14. (3) #5 CONT. T&B w/ #3 STIRRUPS @ 5" MAX. O.C.
15. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER



A SECTION S-401 SCALE: 1/2" = 1'-0"



B SECTION S-401 SCALE: 1/2" = 1'-0"

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Conformed Set	

Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

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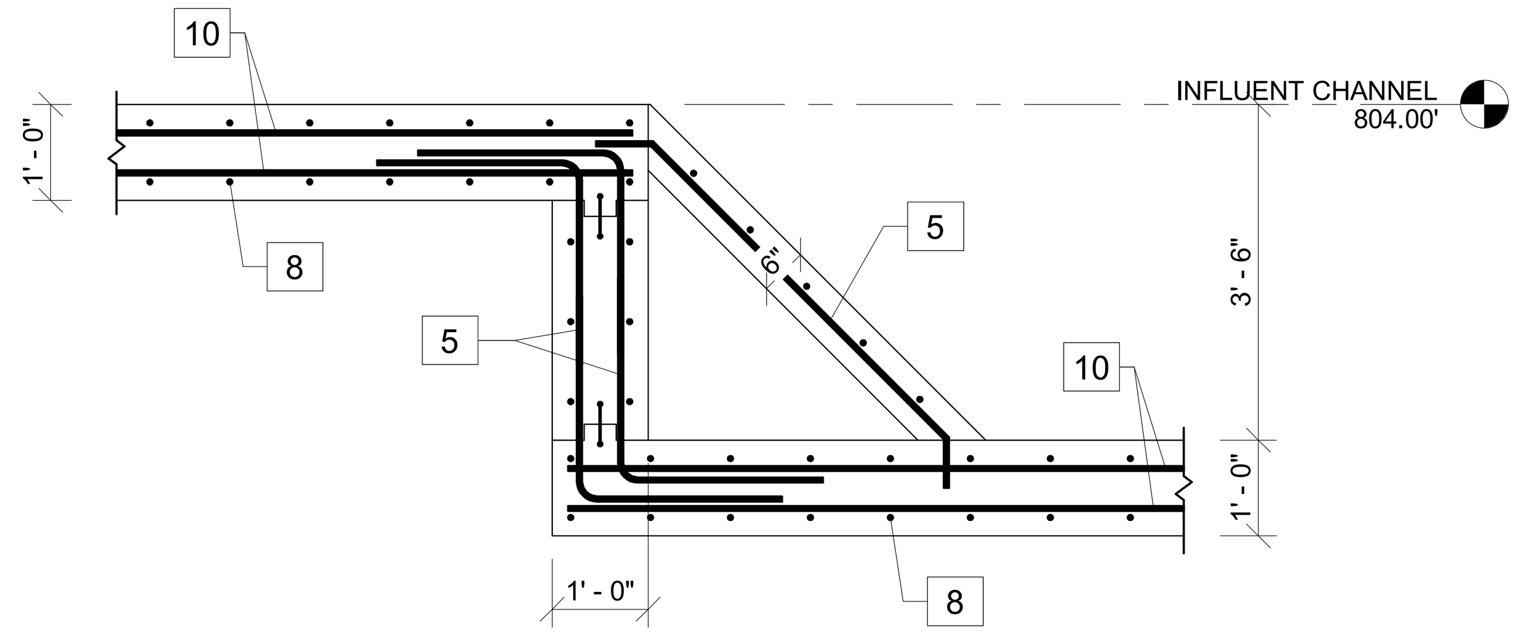
GMC PROJECT #CATL230033

CLARIFIERS - SECTIONS

S-402

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce Clarifiers.rvt
3/7/2025 9:36:59 AM



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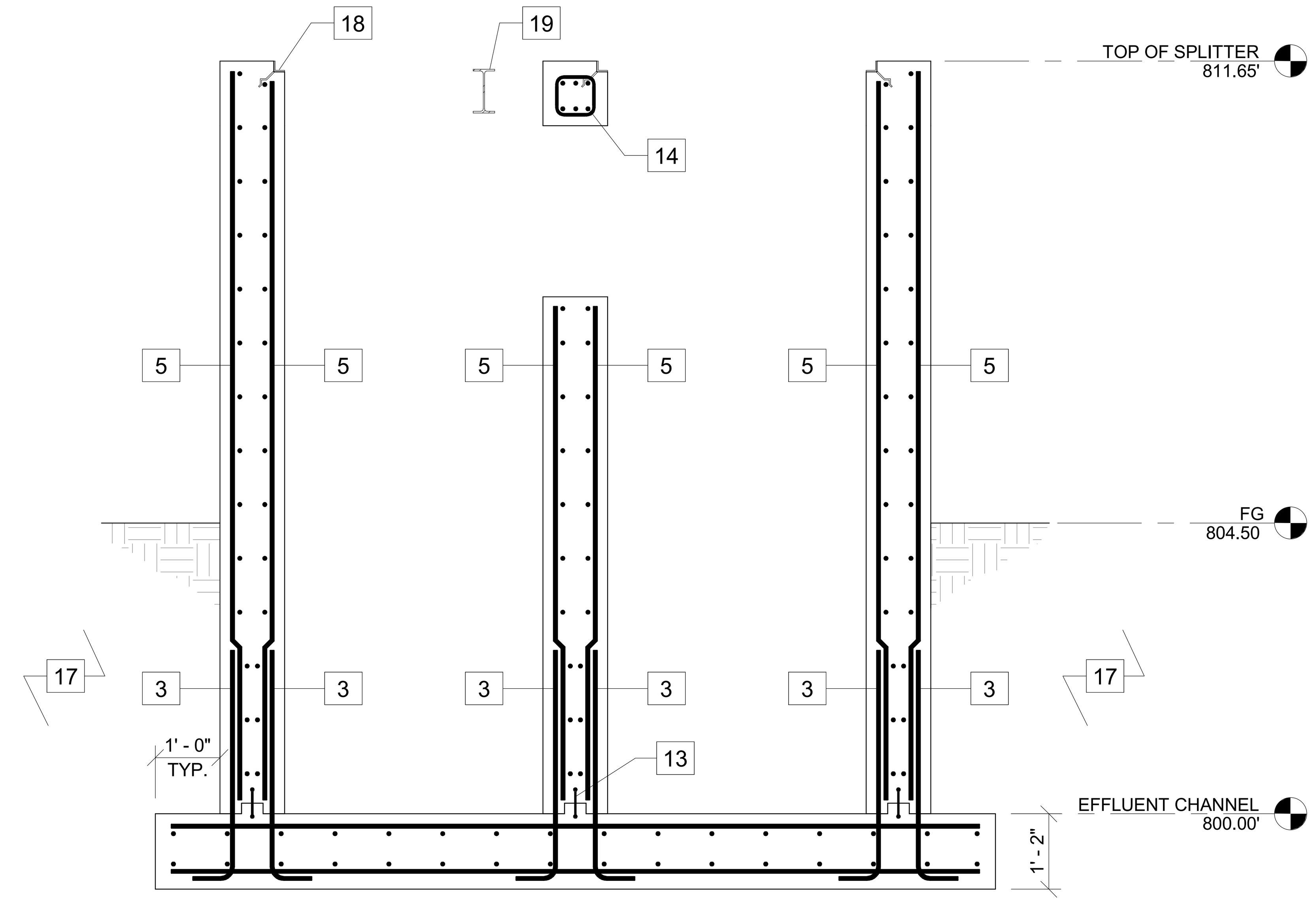
S-401
SECTION
SCALE: 1/2" = 1'-0"



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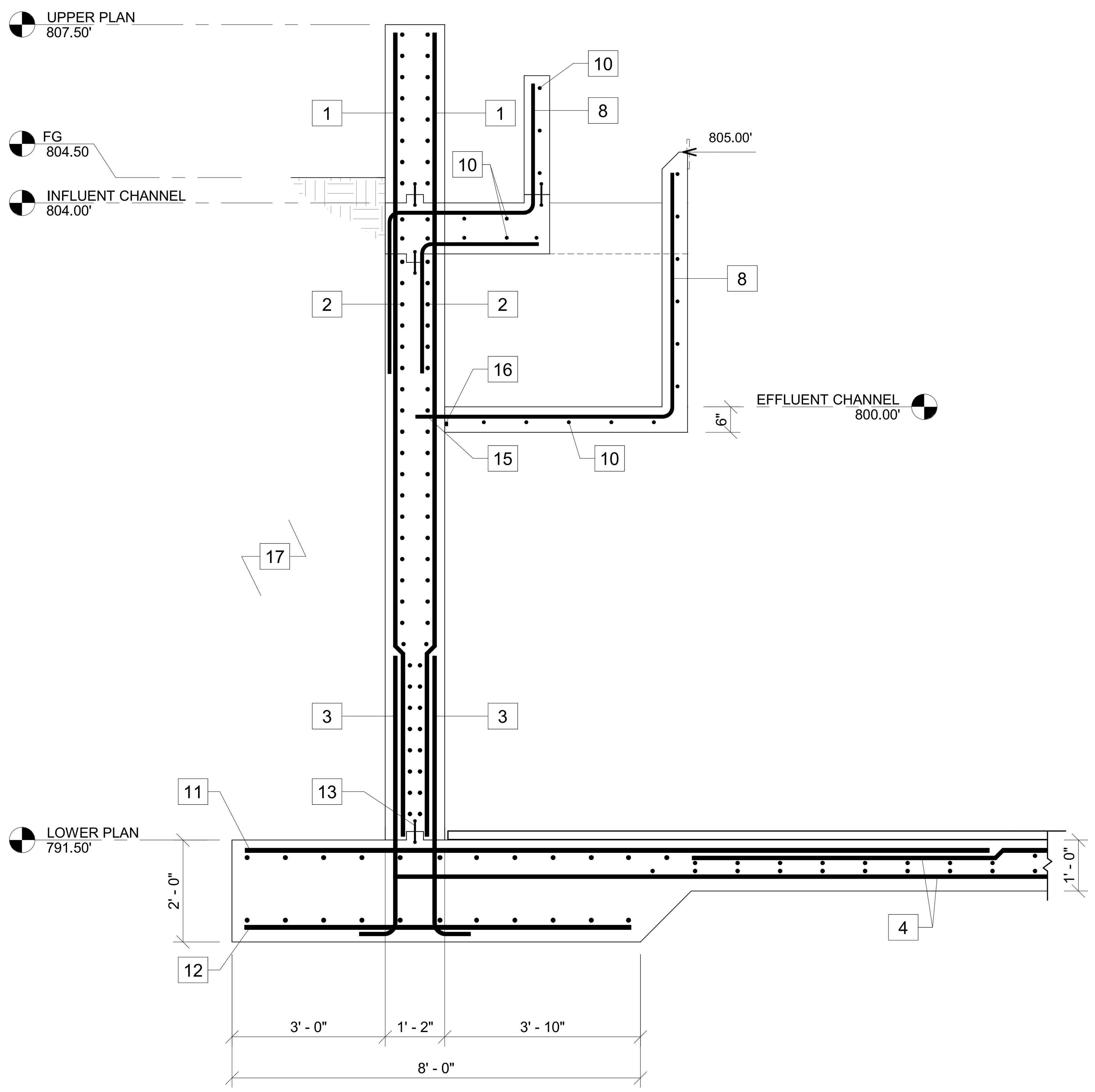
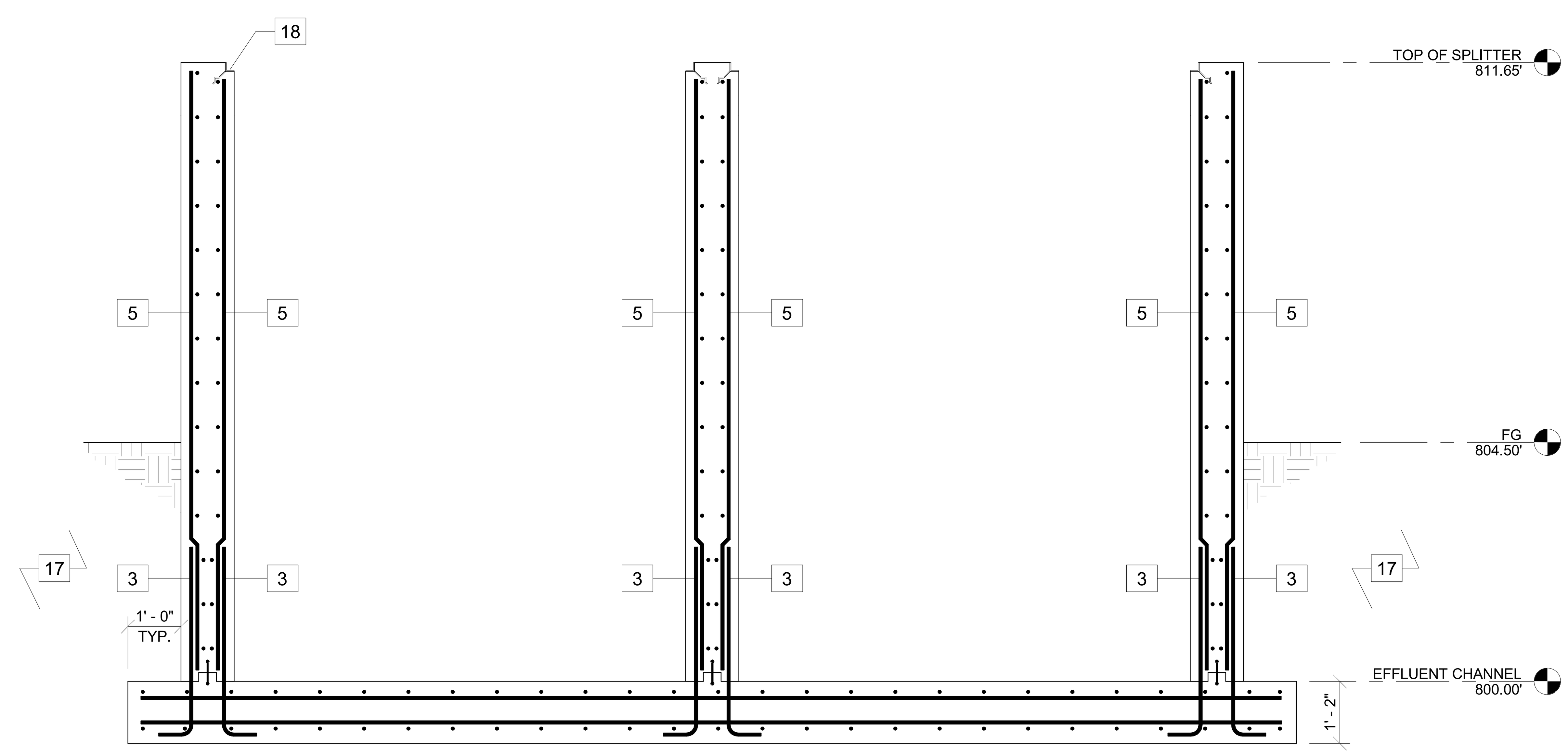
S-401
SECTION
SCALE: 1/2" = 1'-0"



D
S-401
SECTION
SCALE: 1/2" = 1'-0"



F
S-401
SECTION
SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. #6 VERTICAL @ 10" MAX. O.C.
2. #6 HORIZONTAL RADIUSED BARS @ 5" MAX. O.C.
3. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
4. #6 @ 10" MAX. O.C. EACH WAY
5. #5 @ 10" MAX. O.C. EACH WAY
6. #5 VERTICAL @ 10" MAX. O.C.
7. #5 HORIZONTAL @ 5" MAX. O.C.
8. #5 BENT BAR @ 10" MAX. O.C.
9. (5) #5 CONTINUOUS
10. #5 RADIUSED BARS @ 10" MAX. O.C.
11. (12) #7 RADIUSED BARS EQ. SPACED w/ #7 RADIAL @ 10" O.C. (MEASURED AT CENTERLINE OF WALL)
12. (11) #7 RADIUSED BARS EQ. SPACED w/ #7 RADIAL @ 10" O.C. (MEASURED AT CENTERLINE OF WALL)
13. 6" PVC WATERSTOP - TYPICAL
14. (3) #5 CONT. T&B w/ #3 STIRRUPS @ 5" MAX. O.C.
15. DRILL & EPOXY BARS INTO WALL 6" MINIMUM
16. 5/8" x 1" BITUMINOUS WATERSTOP AT EFFLUENT CHANNEL
17. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
18. PREFABRICATED GRATING SEAT EMBED - TYPICAL
19. 6061-T6 ALUMINUM WF8x10.7 GRATING SUPPORT BEAM

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Designer:	TS
Drawn By:	JD

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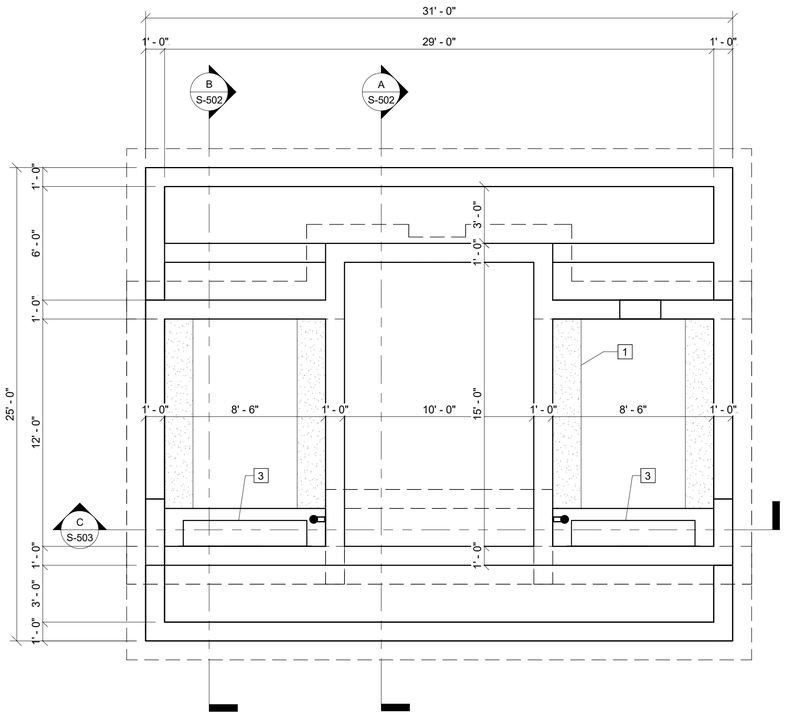
GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

CLARIFIERS & SPLITTER BOX - SECTIONS

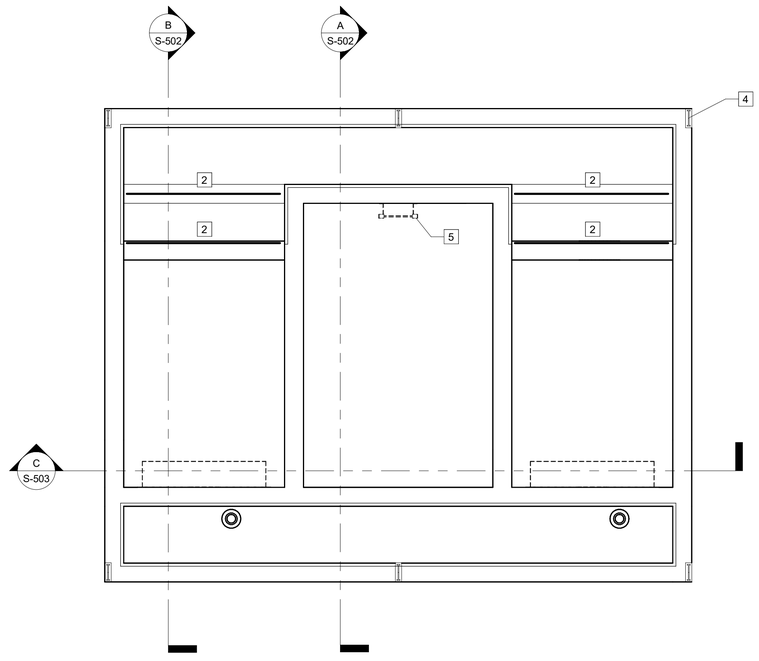
S-403

KEY NOTES: [#]

1. SLOPED GROUT FILL - SEE PROCESS
2. 6061-T6 ALUMINUM WF8x10.7 GRATING SUPPORT BEAM
3. PREFABRICATED WEIR BOX - SEE PROCESS
4. PREFABRICATED CANOPY COLUMN - SEE PROCESS
5. PREFABRICATED STEEL LADDER - SEE PROCESS



1 S-501 **LOWER PLAN**
SCALE: 1/4" = 1'-0"



2 S-501 **UPPER PLAN**
SCALE: 1/4" = 1'-0"

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1" 0" .5" 1"

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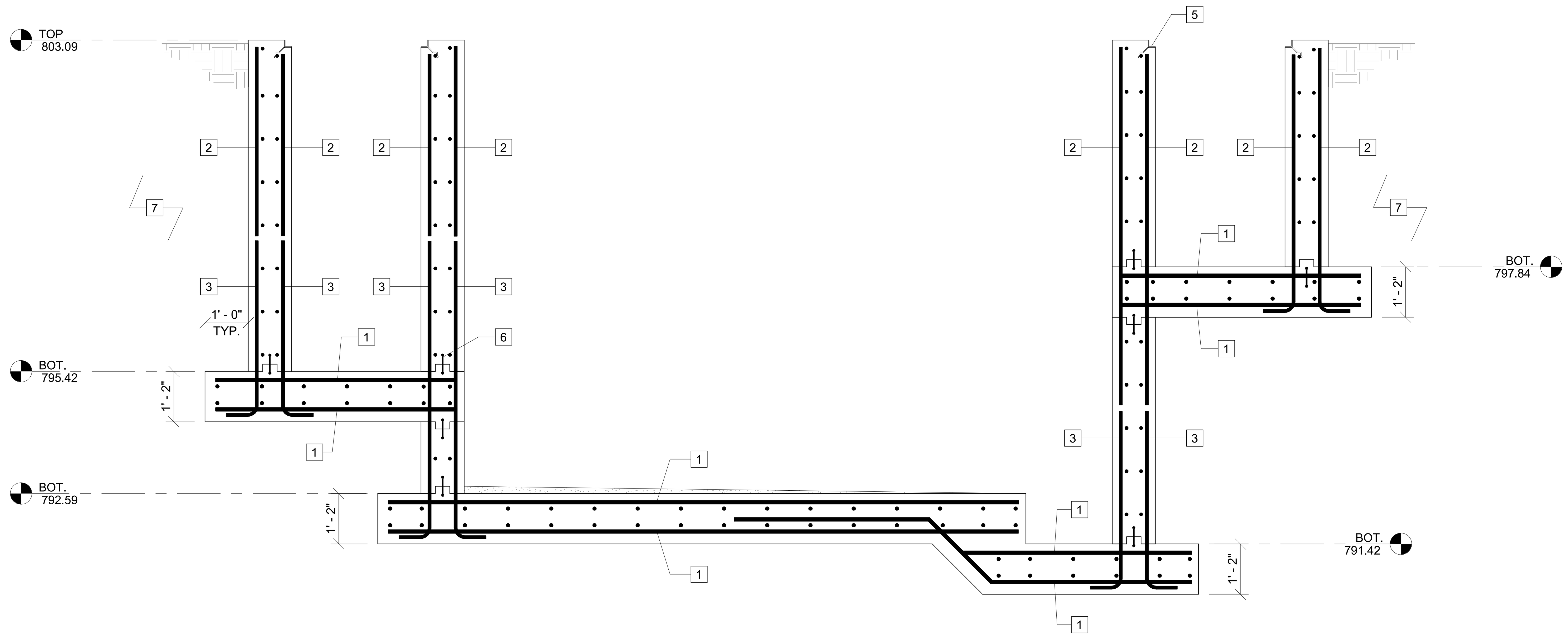
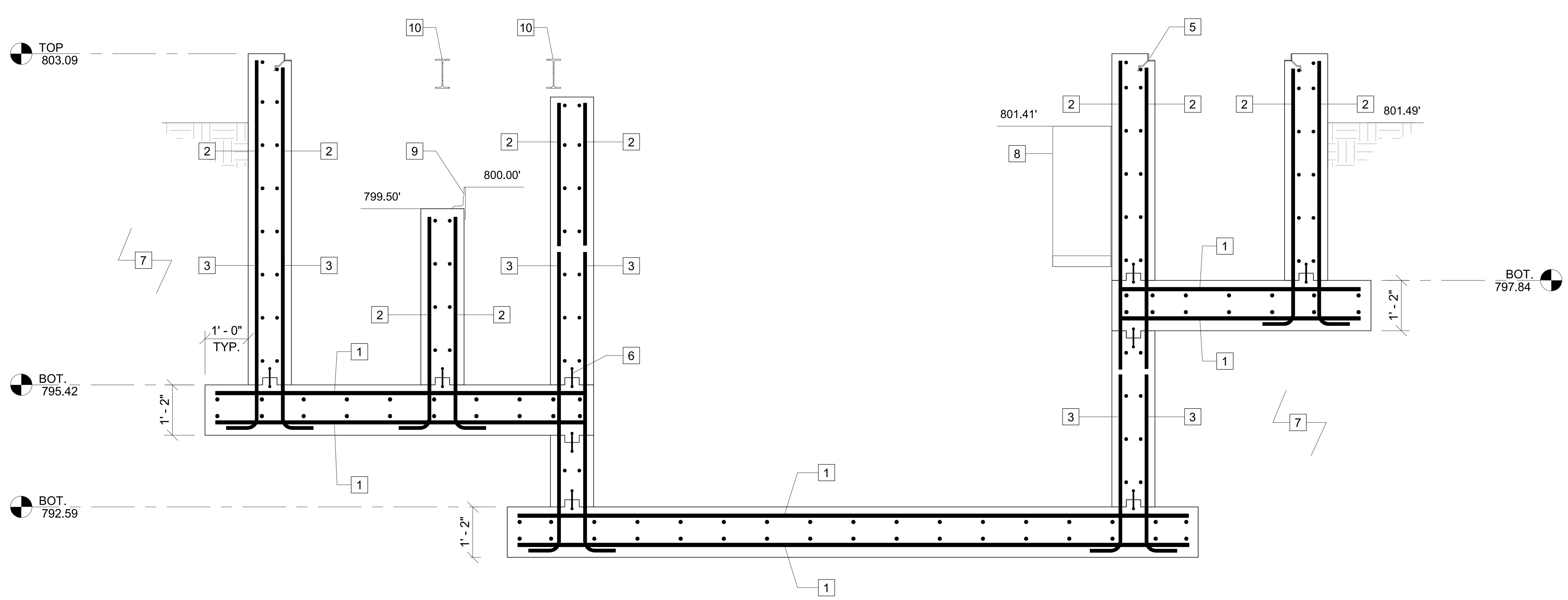
GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

TERTIARY FILTERS - PLANS

S-501



A SECTION
S-501 SCALE: 1/2" = 1'-0"



B SECTION
S-501 SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. #7 @ 12" MAX. O.C. EACH WAY
2. #6 @ 12" MAX. O.C. EACH WAY
3. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT
4. 6061-T6 ALUMINUM WF8x10.7 GRATING SUPPORT BEAM
5. PREFABRICATED GRATING SEAT EMBED
6. 6" PVC WATERSTOP - TYPICAL
7. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
8. PREFABRICATED WEIR BOX - SEE PROCESS
9. PREFABRICATED WEIR - SEE PROCESS
10. 6061-T6 ALUMINUM WF8x10.7 GRATING SUPPORT BEAM

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Designer:	TS
Drawn By:	JD

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TERTIARY FILTERS - SECTIONS

S-502

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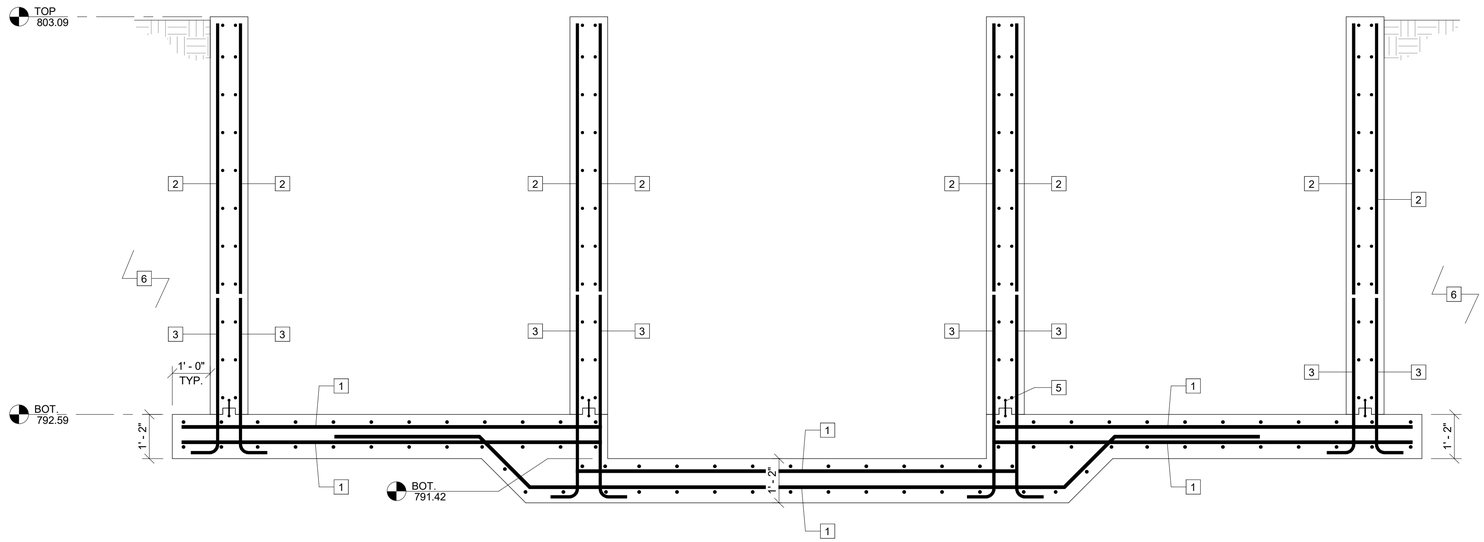

C S-501 **SECTION**
SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. #7 @ 12" MAX. O.C. EACH WAY
2. #6 @ 12" MAX. O.C. EACH WAY
3. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT
4. PREFABRICATED GRATING SEAT EMBED
5. 6" PVC WATERSTOP - TYPICAL
6. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER

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1" 0" .5" 1"

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Conformed Set		TS
		JD

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Engineer:
Designer:
Drawn By:

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TERTIARY FILTERS - SECTIONS

S-503

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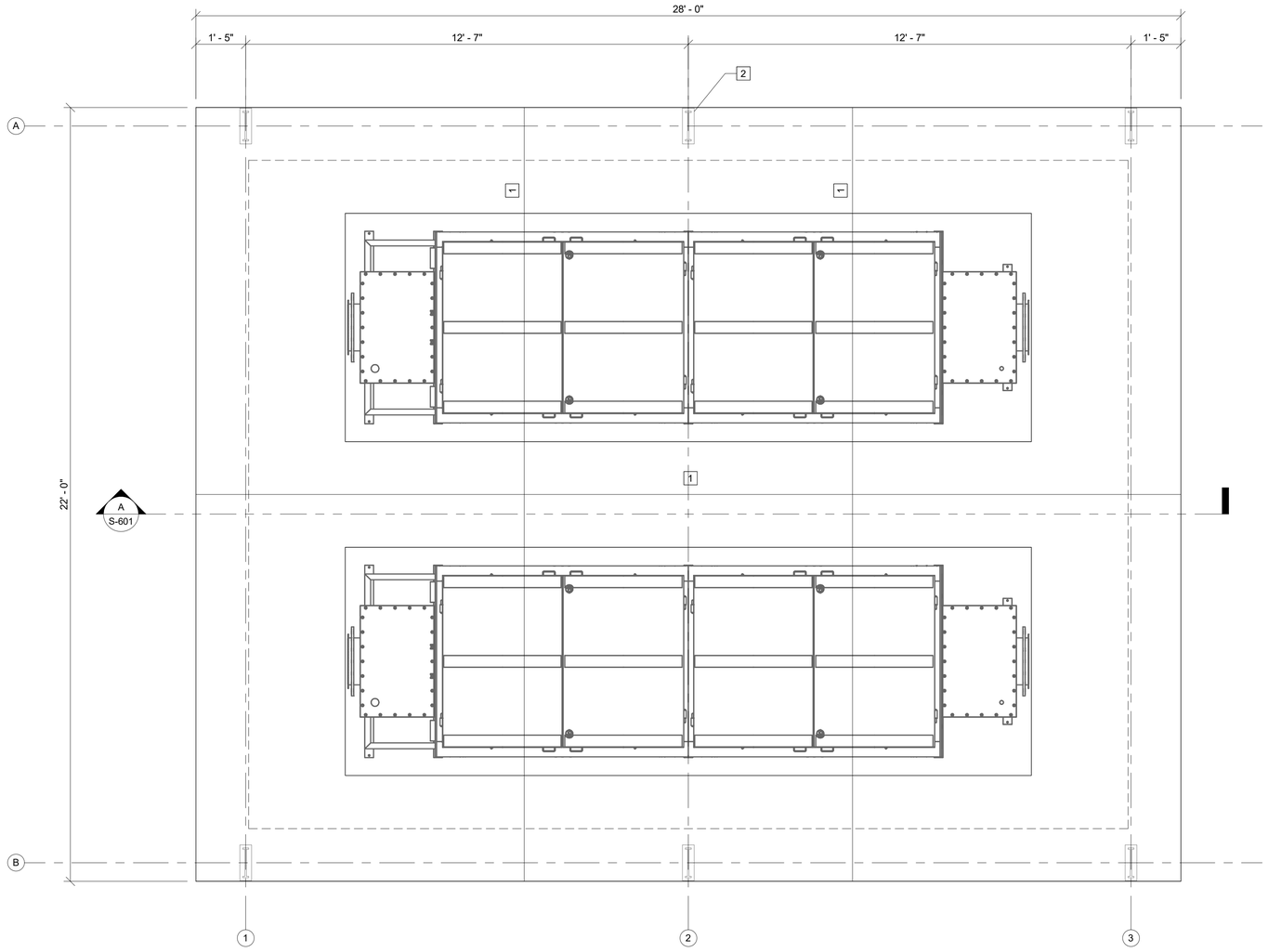
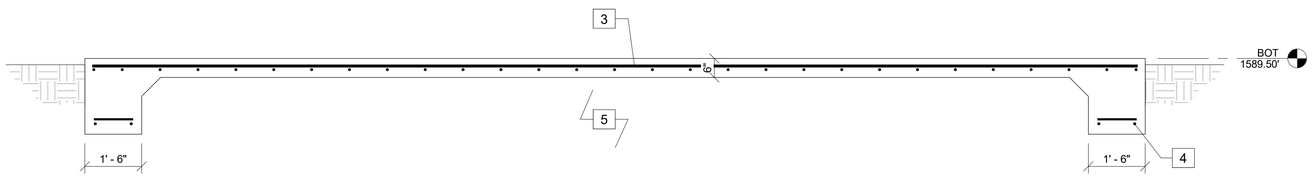
3/19/2025 8:12:26 AM



1 S-601 **PLAN**
SCALE: 1/2" = 1'-0"



A S-601 **SECTION**
SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. CONTROL JOINT
2. PREFABRICATED CANOPY COLUMN - SEE PROCESS
3. #5 @ 12" MAX. O.C. EACH WAY - CENTERED IN SLAB
4. (2) #5 CONTINUOUS W/ #3 TRANSVERSE @ 24" O.C.
5. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER.

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1" .5" 0" 1"

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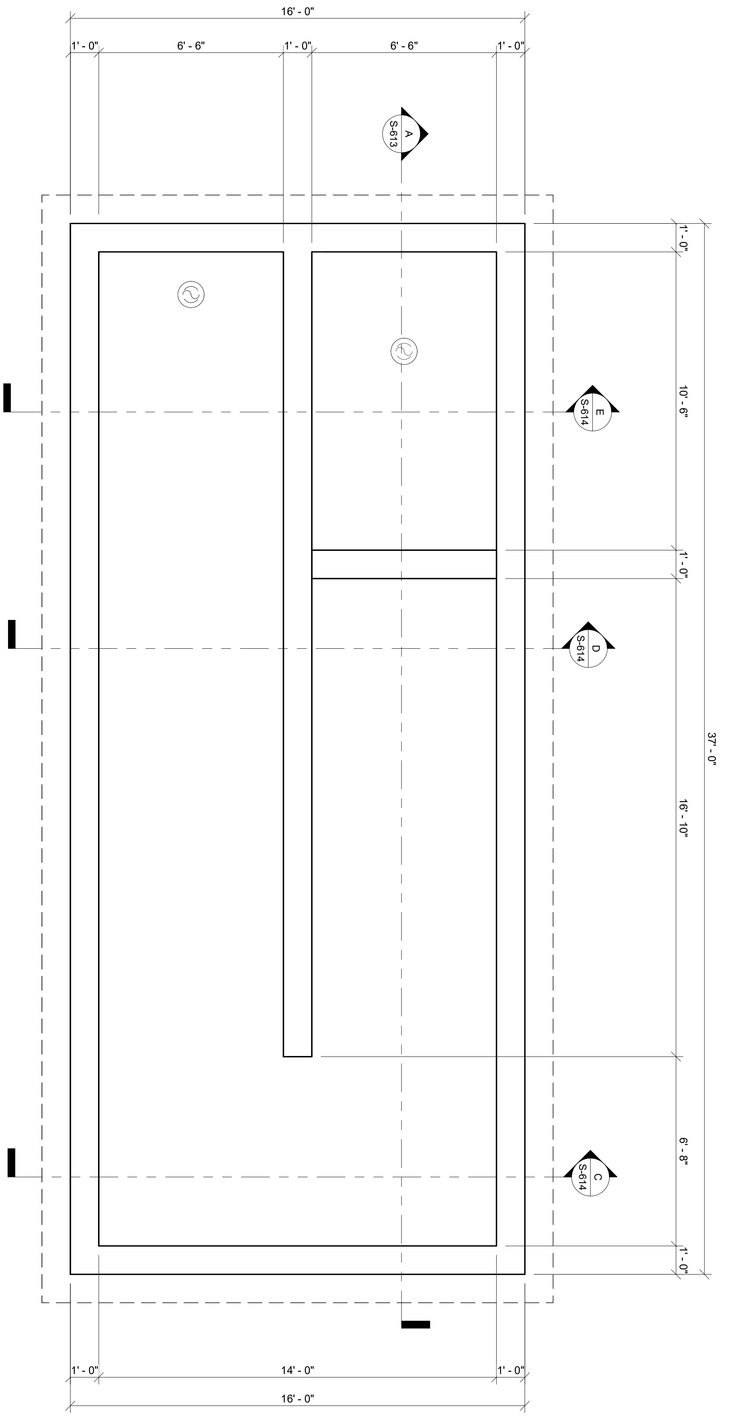
GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

ULTRAVIOLET DISINFECTION - PLAN AND SECTION

S-601

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce UV.rvt
3/7/2025 9:42:57 AM

1 S-611 **LOWER PLAN**
SCALE: 3/8" = 1'-0"



KEY NOTES: [#]

PLANT REUSE WATER PUMP STATION AND POST AERATION - LOWER PLAN

S-611

GEORGIA REGISTERED PROFESSIONAL JOSEPH D. WEATHERFORD No. 19936

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Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

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1" .5" 0" 1"

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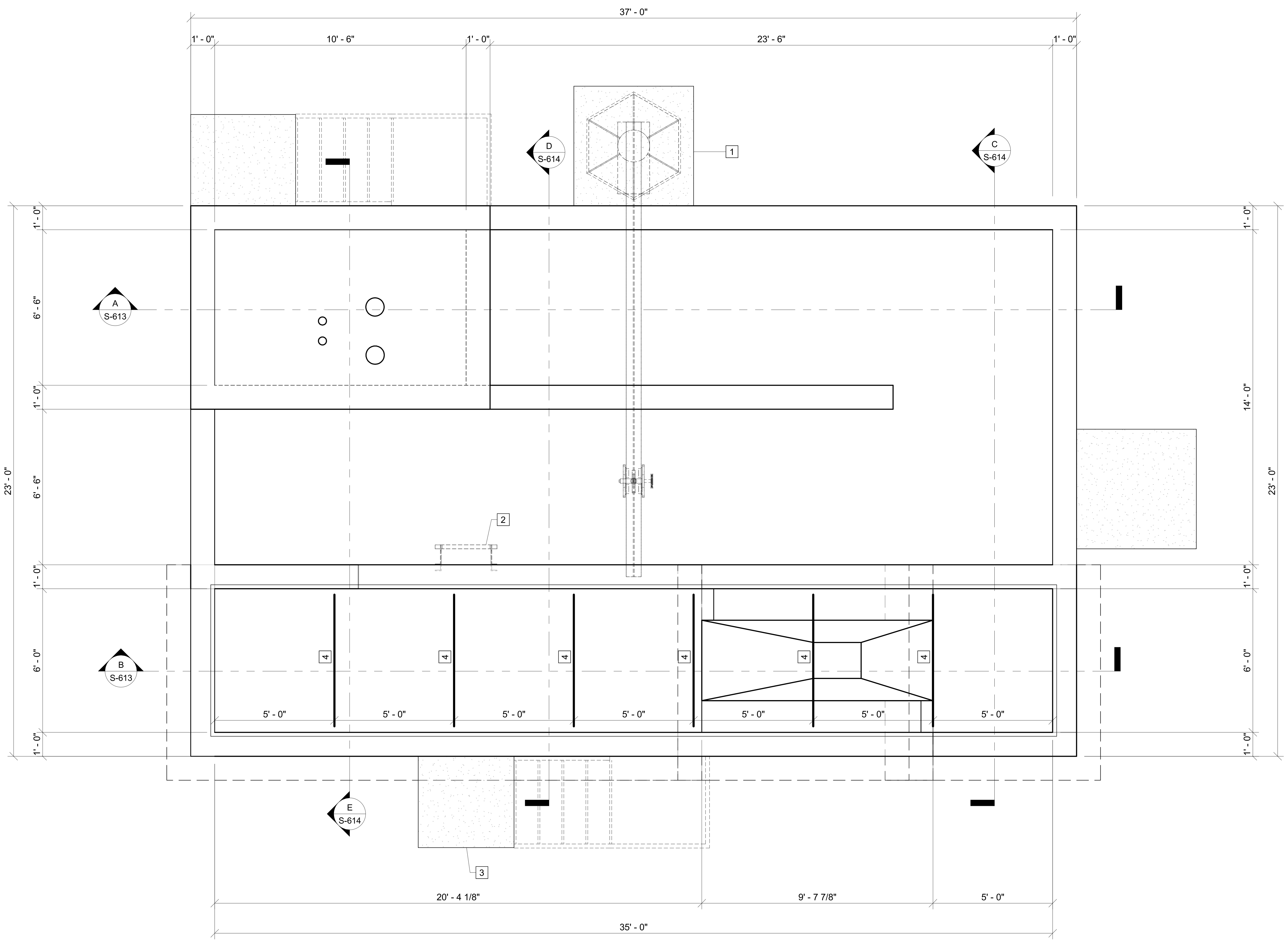
KEY NOTES: #

1. PREFABRICATED JIB CRANE - SEE PROCESS
2. PREFABRICATED LADDER - SEE PROCESS
3. CONCRETE PAD - SEE CIVIL
4. 6061-T6 ALUMINUM W8x5.9 GRATING SUPPORT BEAM



1 S-612 **UPPER PLAN**
SCALE: 3/8" = 1'-0"

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GEORGIA REGISTERED No. 19936 PROFESSIONAL ENGINEER JOSEPH D. WEATHERFORD

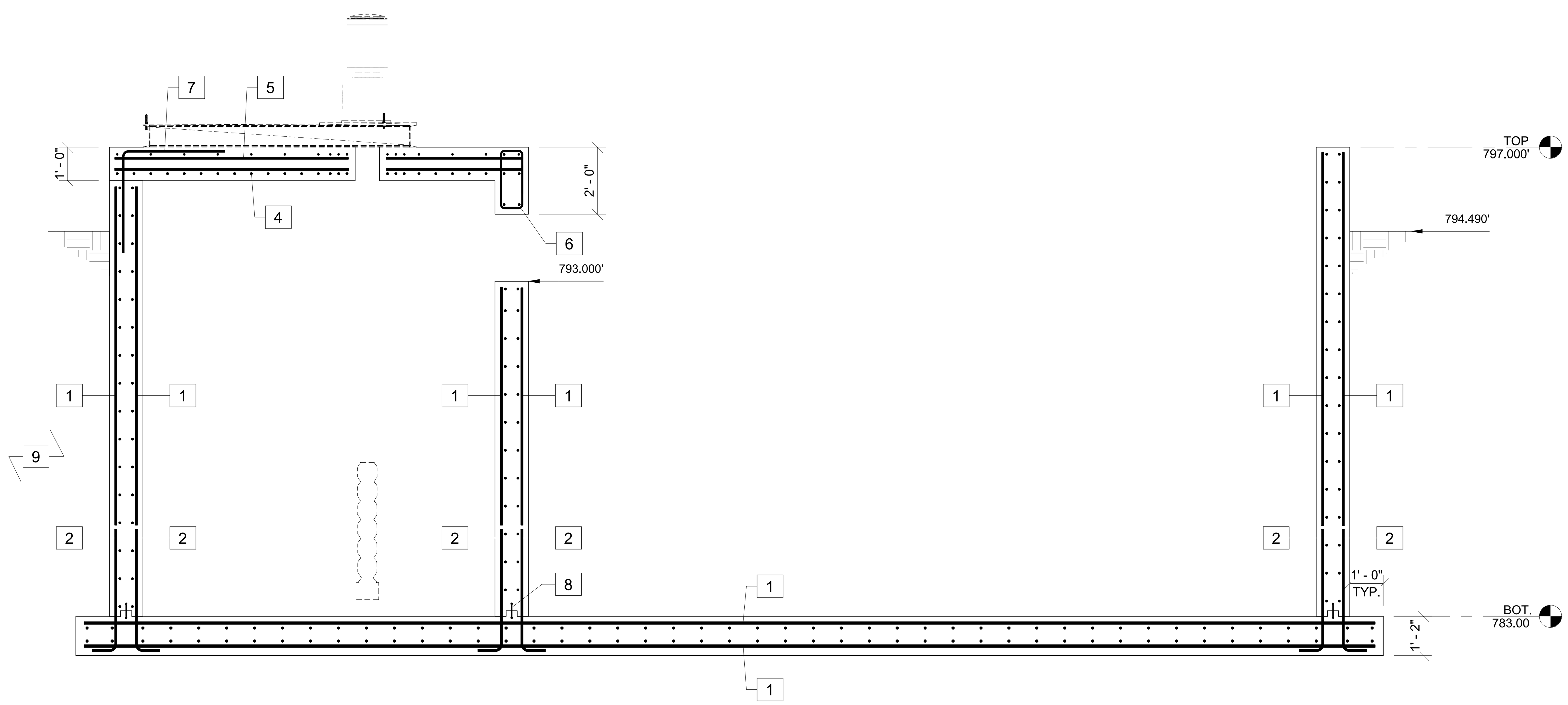
STATE OF GEORGIA GOODWYN MILLS CAWOOD, LLC No. PEF007898 Exp. 06.30.2026 CERTIFICATE OF AUTHORIZATION

PLANT REUSE WATER PUMP STATION AND POST AERATION - UPPER PLAN

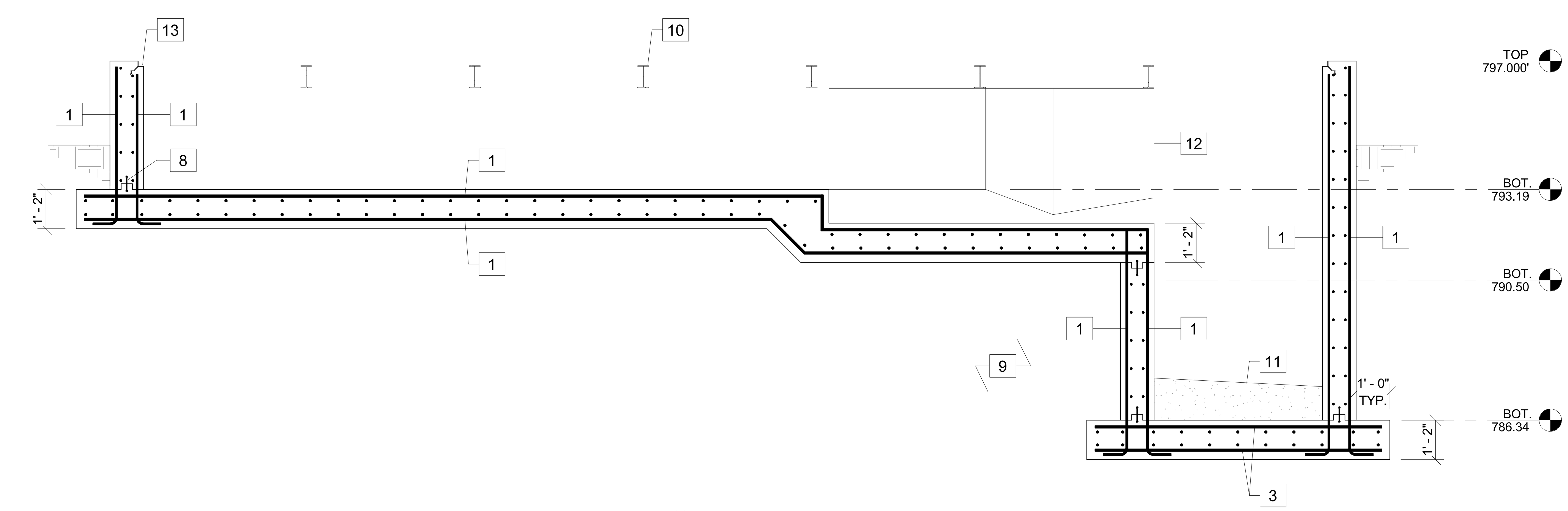
S-612

KEY NOTES: #

1. #6 @ 10" MAX. O.C. EACH WAY
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
3. PREFABRICATED GRATING SEAT EMBED - TYPICAL
4. #5 @ 6" O.C. SHORT DIRECTION, 12" O.C. LONG DIRECTION
5. #4 @ 12" O.C. EACH WAY
6. (2) #5 TOP AND BOTTOM w/ #3 STIRRUPS @ 6" MAX. O.C.
7. #4 x 3'-0" BENT BAR @ 12" MAX. O.C.
8. 6" PVC WATERSTOP - TYPICAL
9. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
10. GRATING SUPPORT BEAM - SEE PLAN
11. GROUT FILL - SEE PROCESS
12. FLUME - SEE PROCESS



A S-611 **SECTION**
SCALE: 3/8" = 1'-0"



B S-612 **SECTION**
SCALE: 3/8" = 1'-0"

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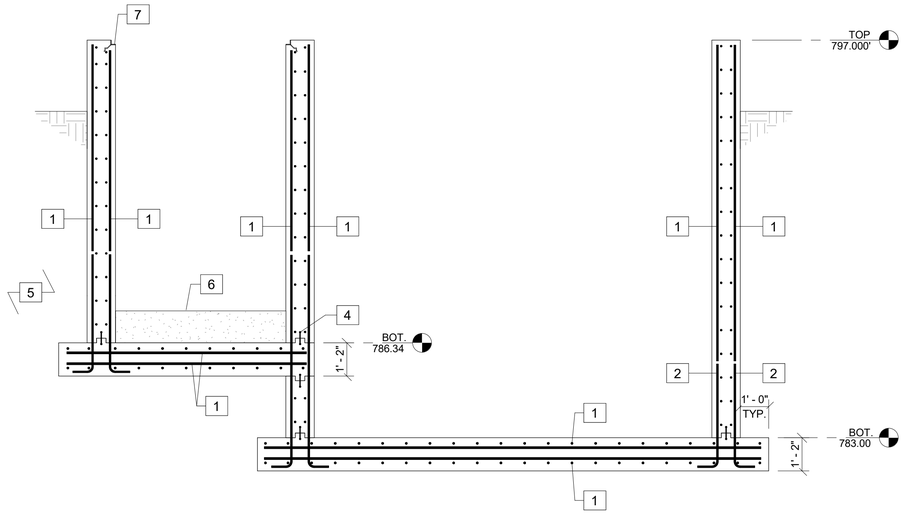
PLANT REUSE WATER PUMP STATION AND POST AERATION - SECTIONS

S-613

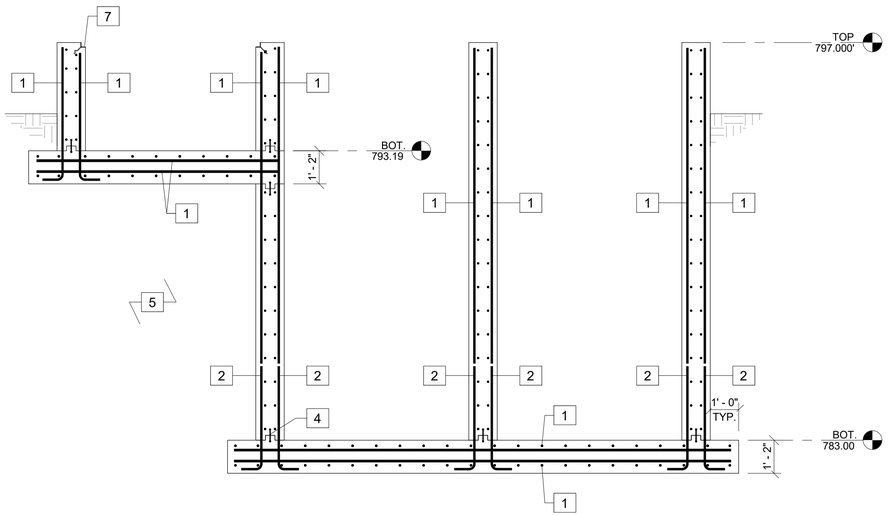
Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce RUW and Post Aeration.rvt
3/7/2025 11:00:15 AM

KEY NOTES: [#]

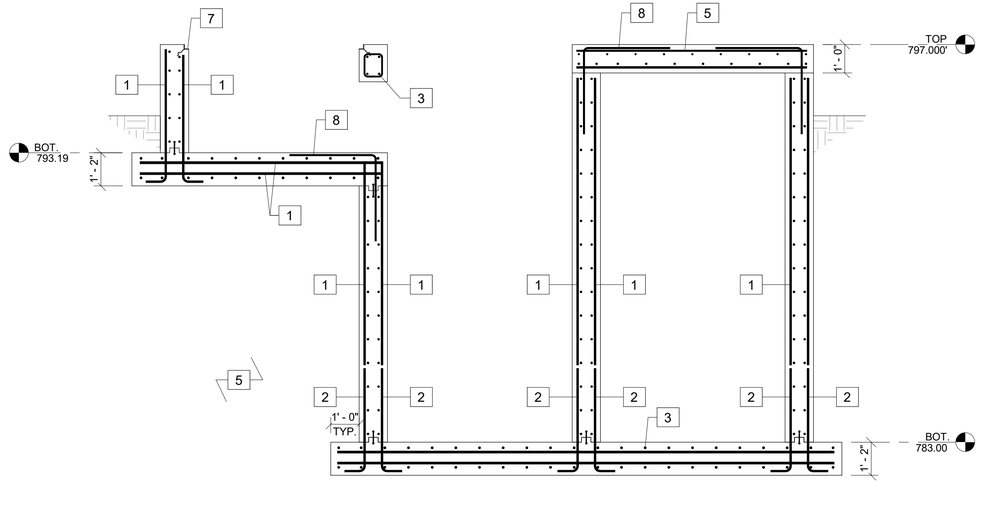
1. #6 @ 10" MAX. O.C. EACH WAY
2. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
3. (2) #5 CONTINUOUS T&B w/ #3 STIRRUPS @ 6" MAX. O.C.
4. 6" PVC WATERSTOP - TYPICAL
5. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER
6. GROUT FILL - SEE PROCESS
7. PREFABRICATED GRATING SEAT EMBED - TYPICAL
8. #4 x 3'-0" BENT BARS @ 12" MAX. O.C.



C S-611 **SECTION**
SCALE: 3/8" = 1'-0"



D S-611 **SECTION**
SCALE: 3/8" = 1'-0"



E S-611 **SECTION**
SCALE: 3/8" = 1'-0"

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1" 0" .5" 1"

ISSUE	DATE
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Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

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GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH D. WEATHERSBEE

PLANT REUSE WATER PUMP STATION AND POST AERATION - SECTIONS

S-614

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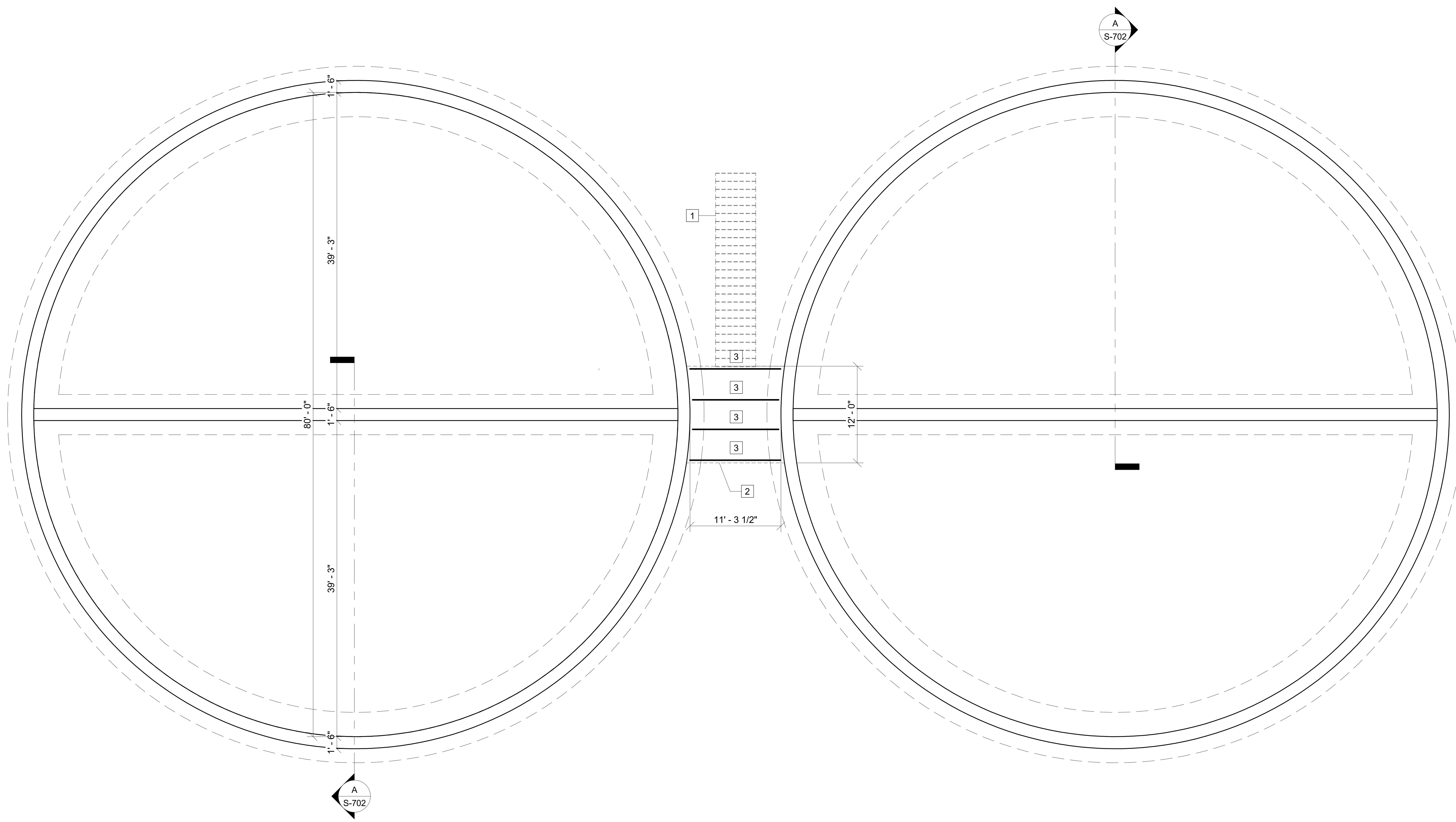
3/7/2025 11:00:15 AM

KEY NOTES: #

1. PREFABRICATED STAIR - SEE PROCESS
2. EXTENTS OF WALKWAY GRATING - SEE PROCESS
3. 6061-T6 ALUMINUM W14x16 GRATING SUPPORT BEAM



1 S-701 **PLAN**
SCALE: 1/8" = 1'-0"

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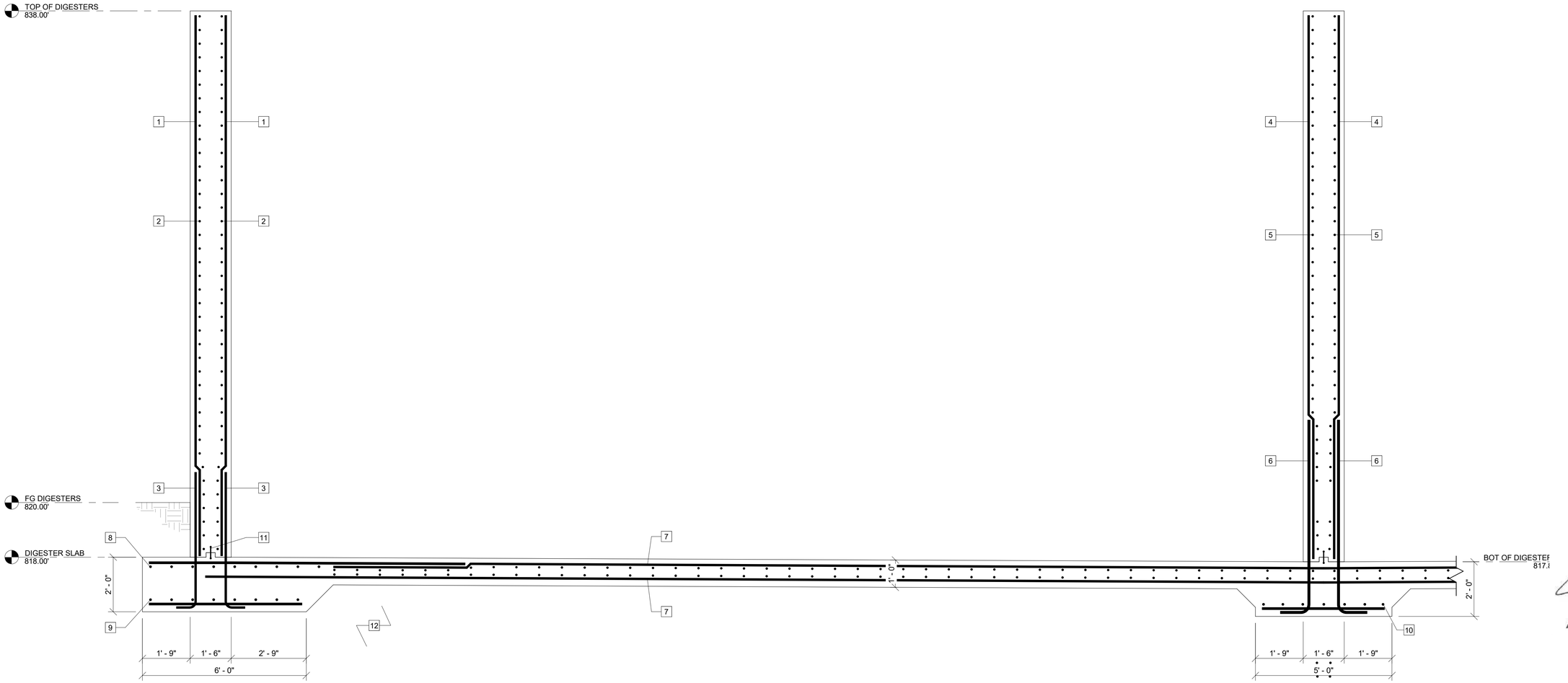
AEROBIC DIGESTERS - PLAN

S-701

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce.rvt
3/7/2025 9:29:35 AM

KEY NOTES: [#]

1. #6 VERTICAL @ 8" MAX. O.C.
2. #6 HORIZONTAL RADIUSED BARS @ 6" MAX. O.C.
3. DOWELS SAME SIZE AND SPACING AS VERTICAL REINFORCING
4. #6 VERTICAL @ 6" MAX. O.C.
5. #6 HORIZONTAL @ 6" MAX. O.C.
6. #8 VERTICAL DOWELS @ 6" MAX. O.C.
7. #6 @ 10" MAX. O.C. EACH WAY
8. (9) #7 RADIUSED BARS EQ. SPACED w/ #7 RADIAL @ 10" O.C. (MEASURED AT CENTERLINE OF WALL)
9. (8) #7 RADIUSED BARS EQ. SPACED w/ #7 RADIAL @ 10" O.C. (MEASURED AT CENTERLINE OF WALL)
10. (7) #7 CONTINUOUS w/ #7 TRANSVERSE @ 10" MAX. O.C.
11. 6" PVC WATERSTOP - TYPICAL
12. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER



A S-701 **SECTION**
SCALE: 1/2" = 1'-0"

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1" .5" 0" 1"

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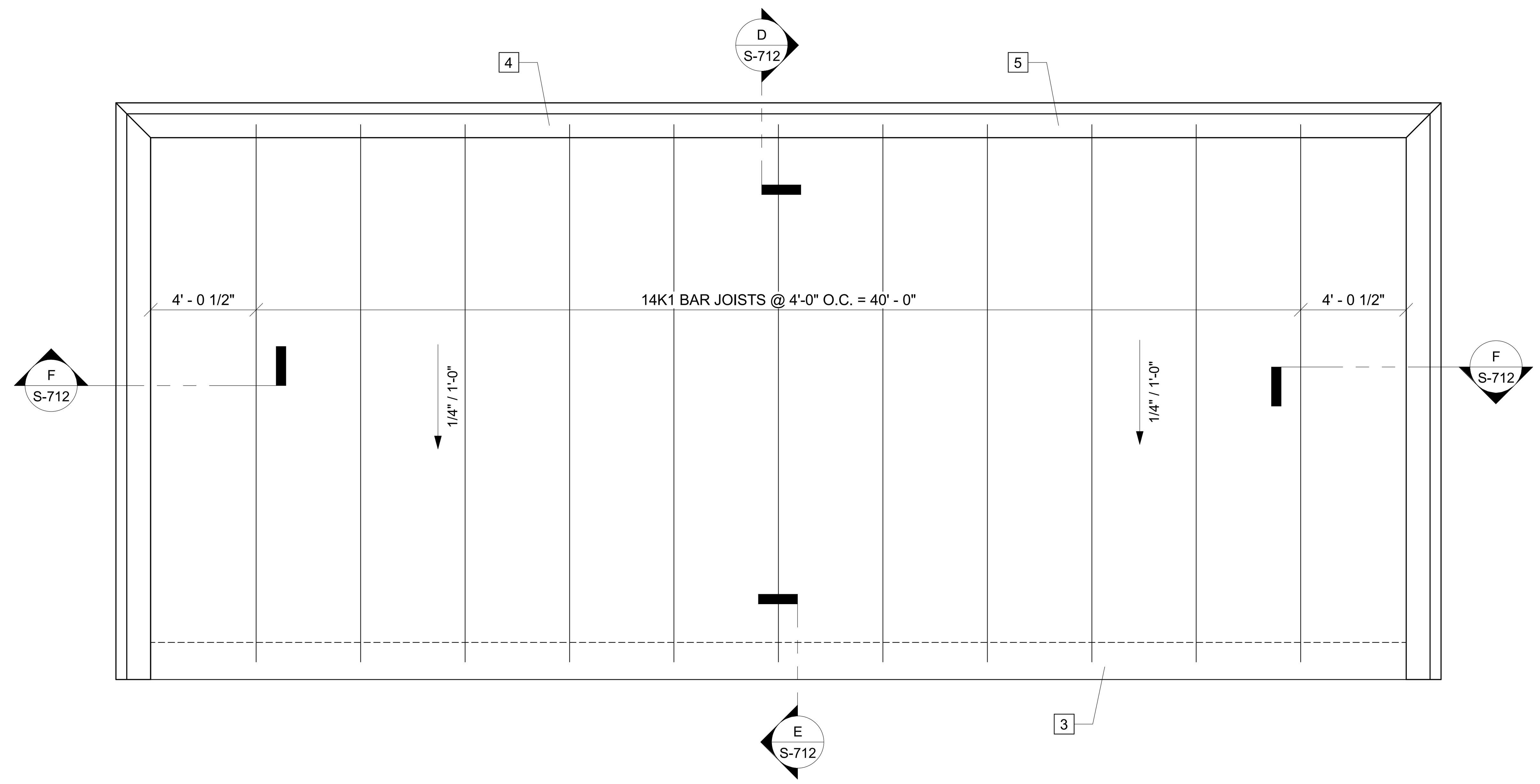
AEROBIC DIGESTERS - SECTION

S-702

Autodesk Docs://CATL230033 - Commerce/CATL230033 - Commerce.rvt
3/7/2025 9:29:35 AM

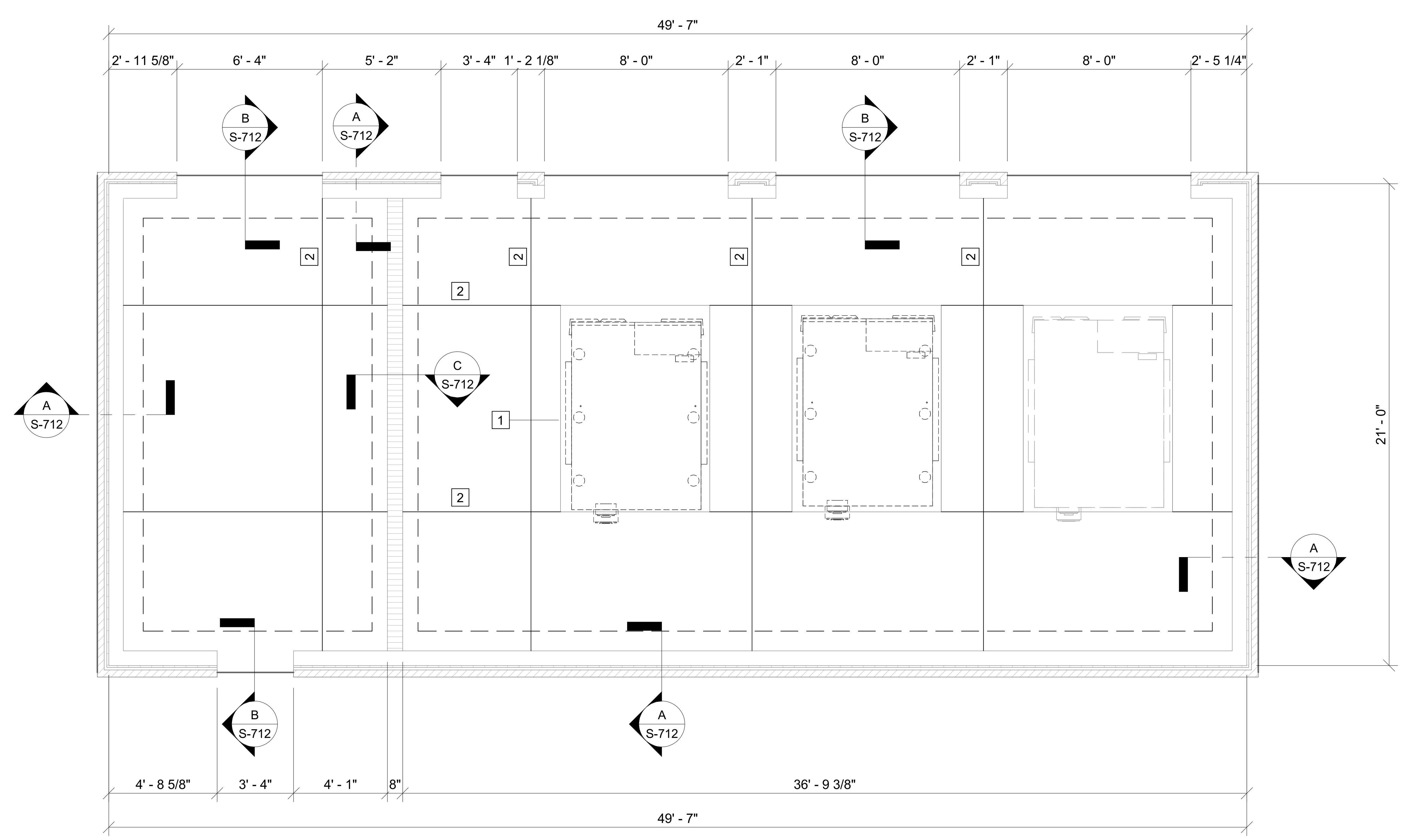
KEY NOTES: #

1. EQUIPMENT PAD - SEE S-002 FOR REINFORCEMENT DETAILS
2. CONTROL JOINT
3. JOIST BEARING EL. = 829.00
4. JOIST BEARING EL. = 829.43
5. TOP OF PARAPET EL. = 830.92



2 S-711 **ROOF FRAMING PLAN**

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



1 S-711 **FOUNDATION PLAN**

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

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Conformed Set	

Project Manager:	GS
Engineer:	JD
Designer:	TS
Drawn By:	JD

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BLOWERS BUILDING - PLANS

S-711

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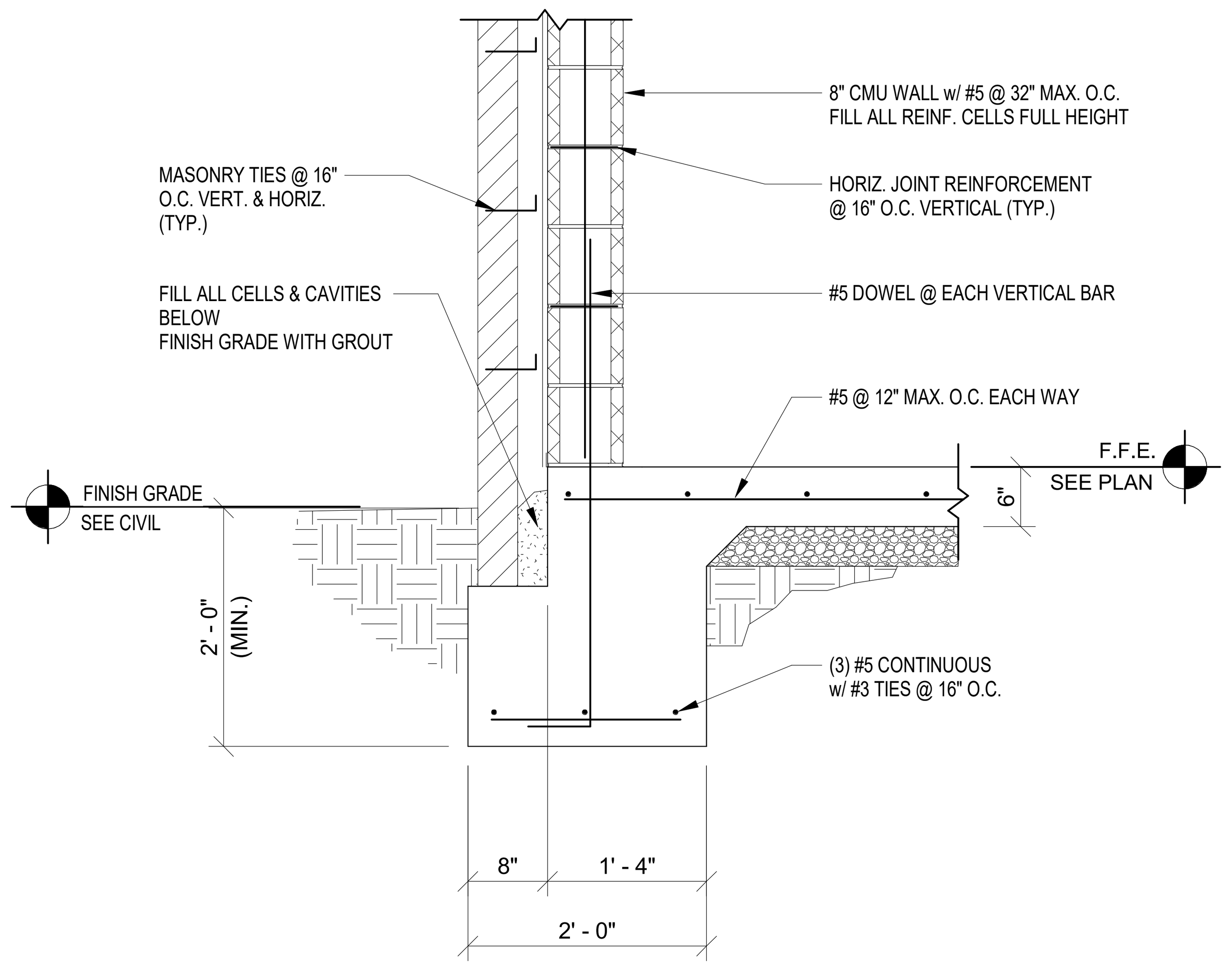
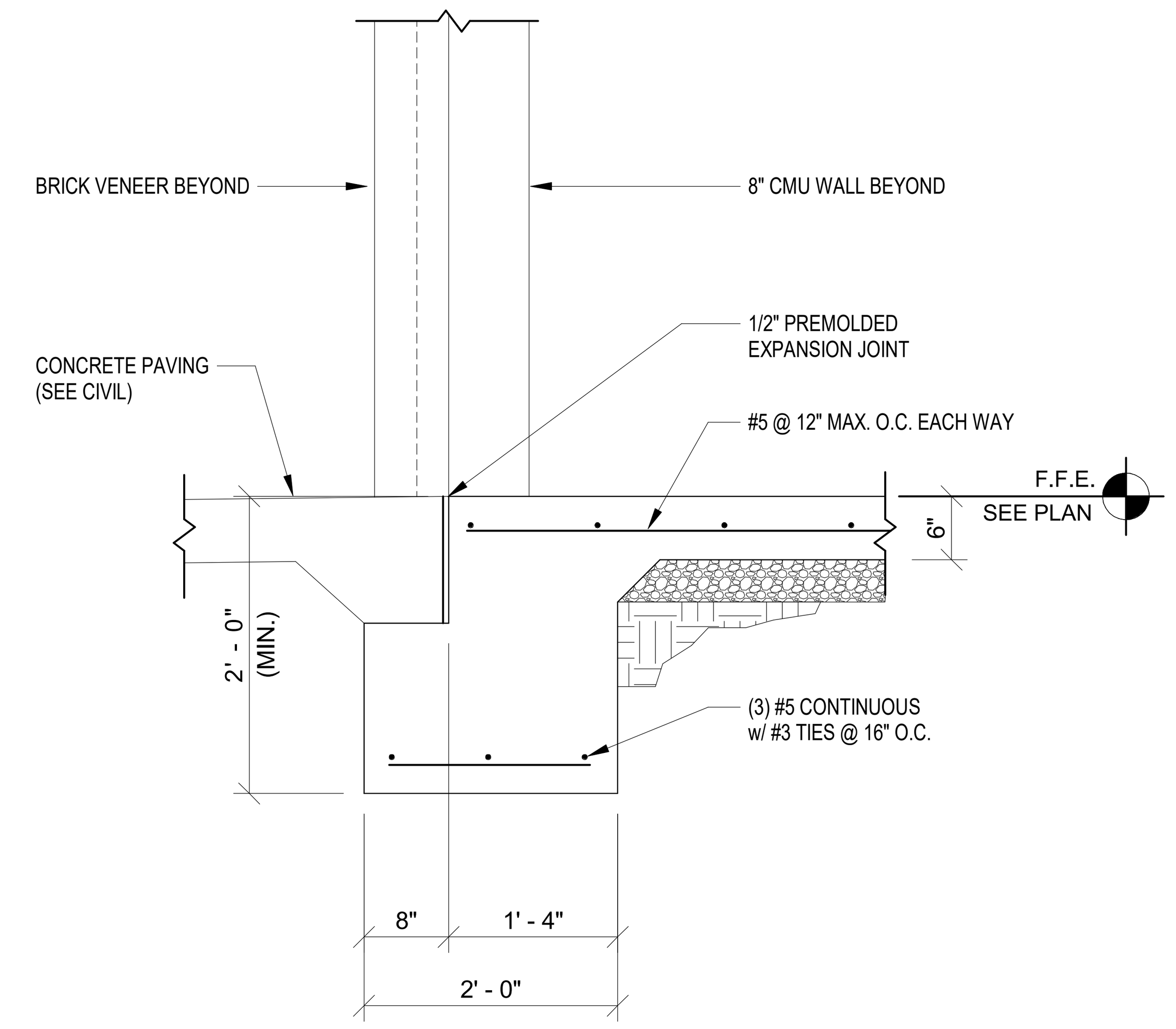


A S-711 **SECTION**
SCALE: 3/4" = 1'-0"



B S-711 **SECTION**
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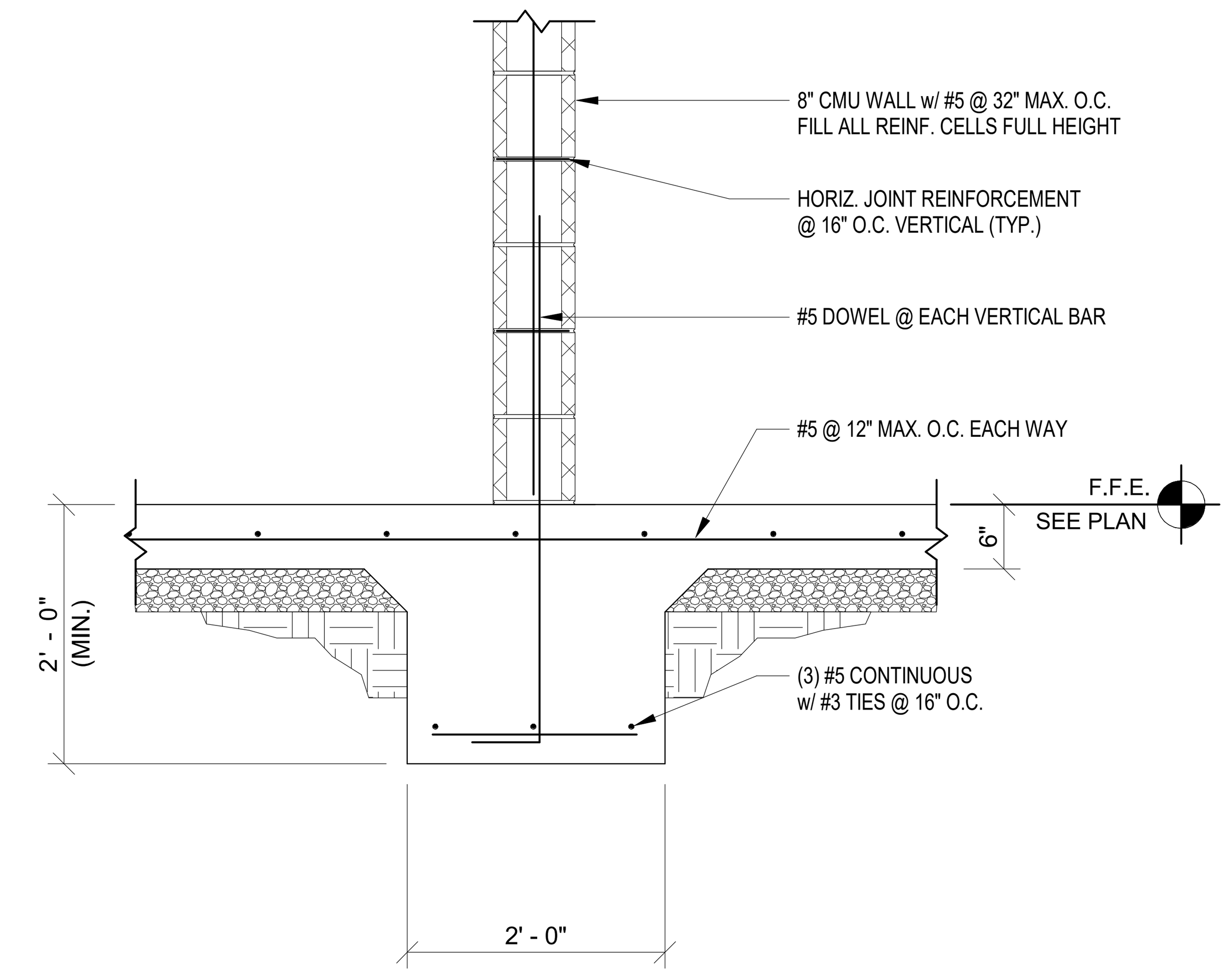
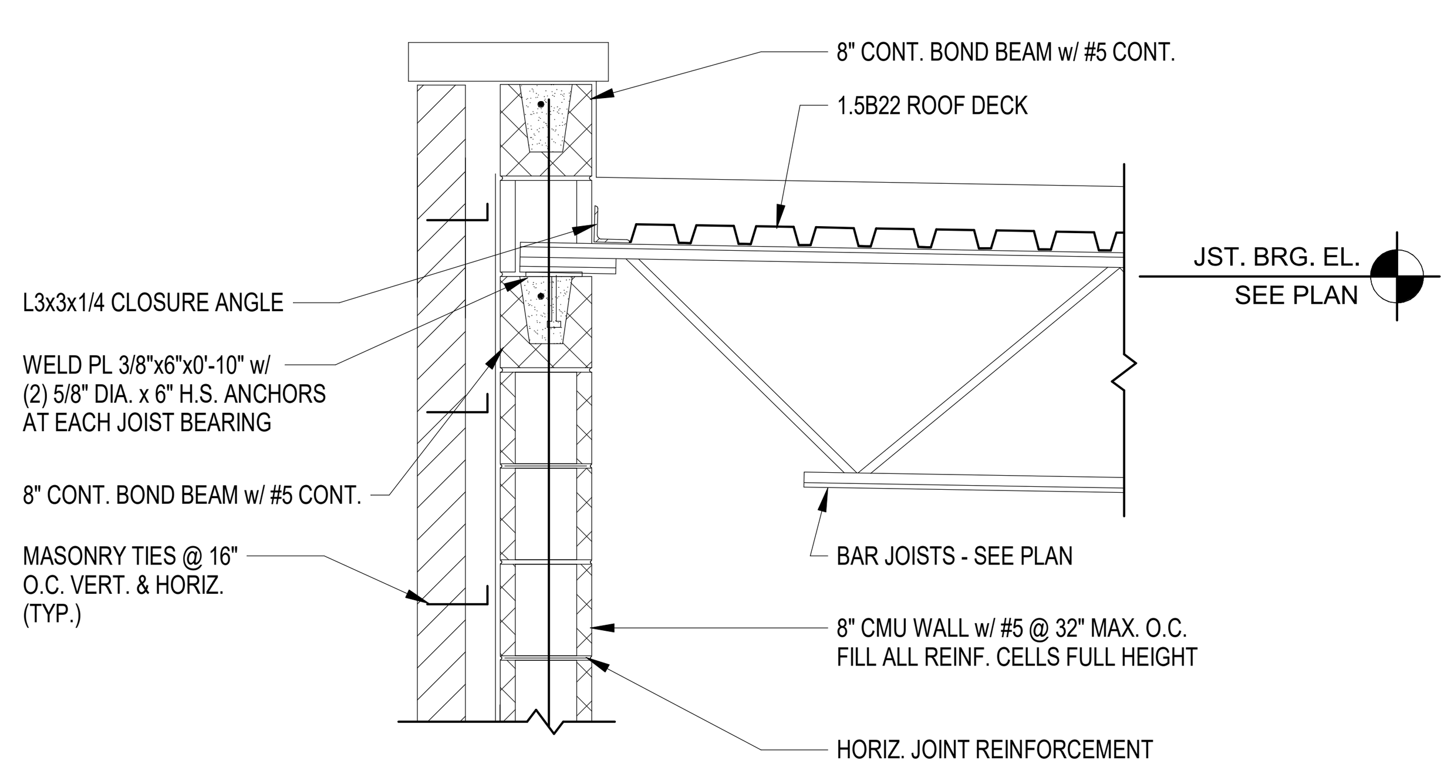


C S-711 **SECTION**
SCALE: 3/4" = 1'-0"



D S-711 **SECTION**
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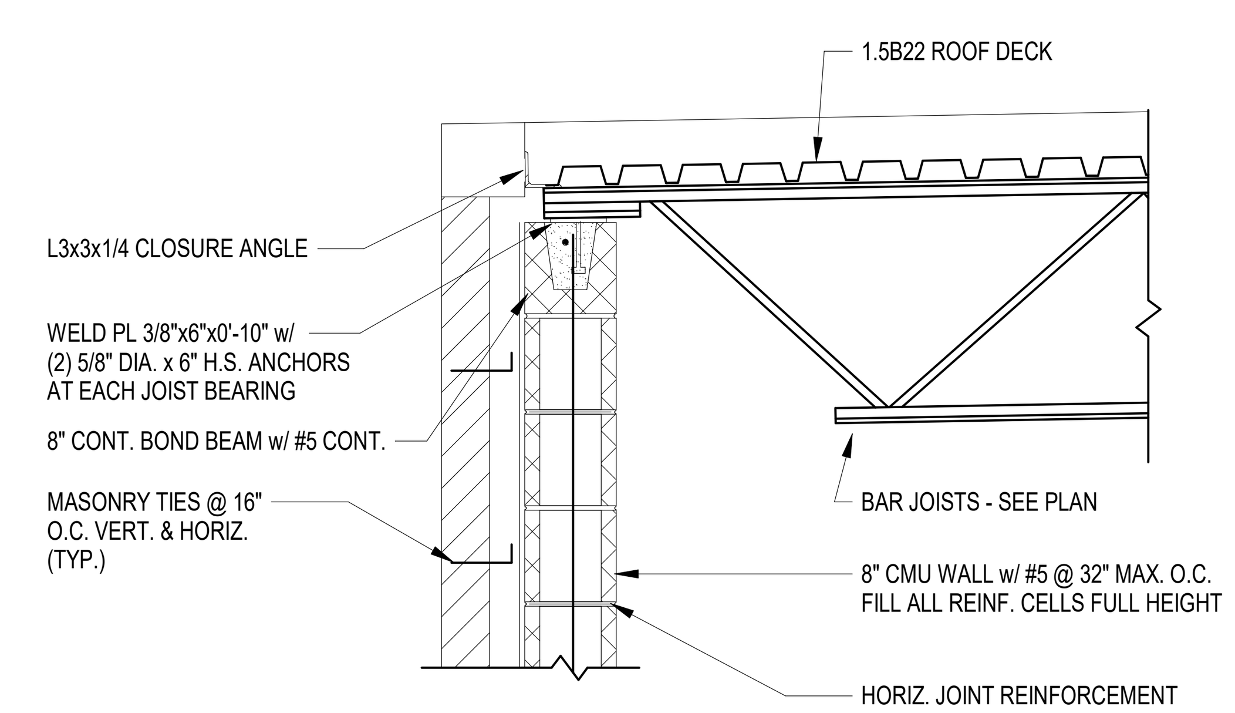
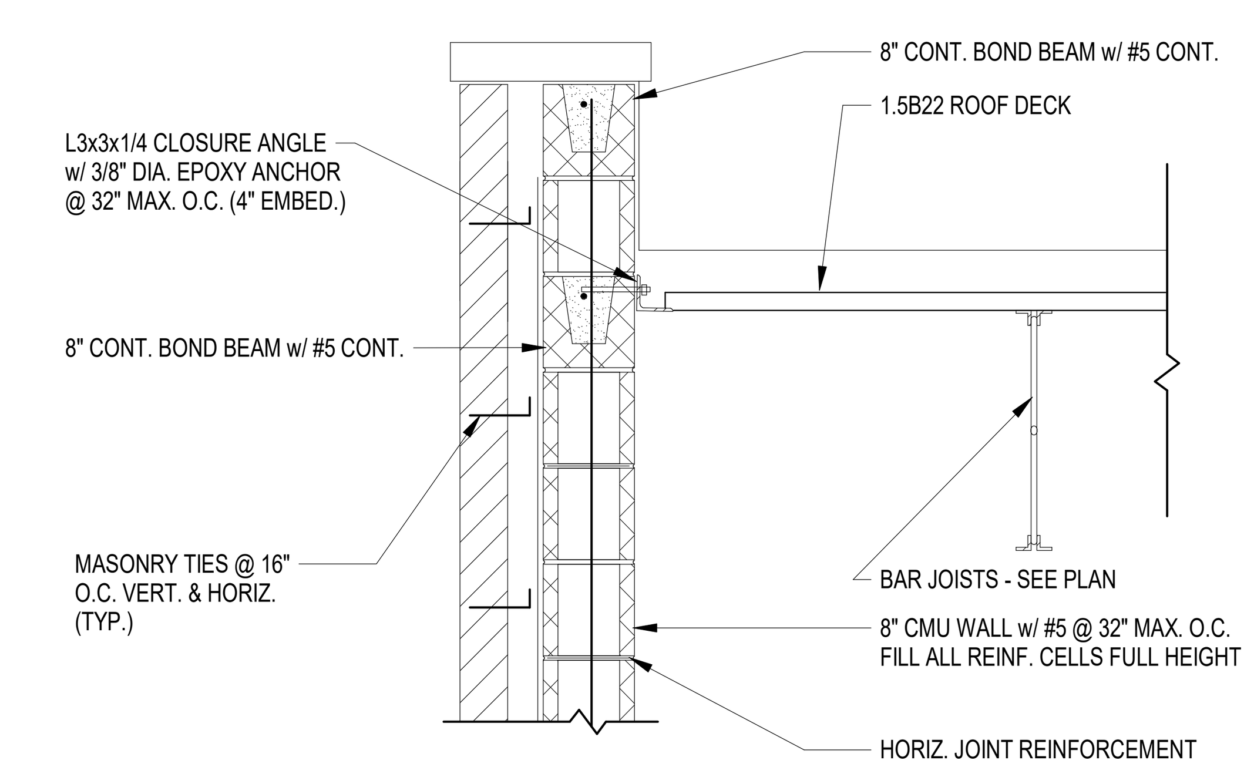


E S-711 **SECTION**
SCALE: 3/4" = 1'-0"



F S-711 **SECTION**
SCALE: 3/4" = 1'-0"

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BLOWERS BUILDING - SECTIONS

S-712

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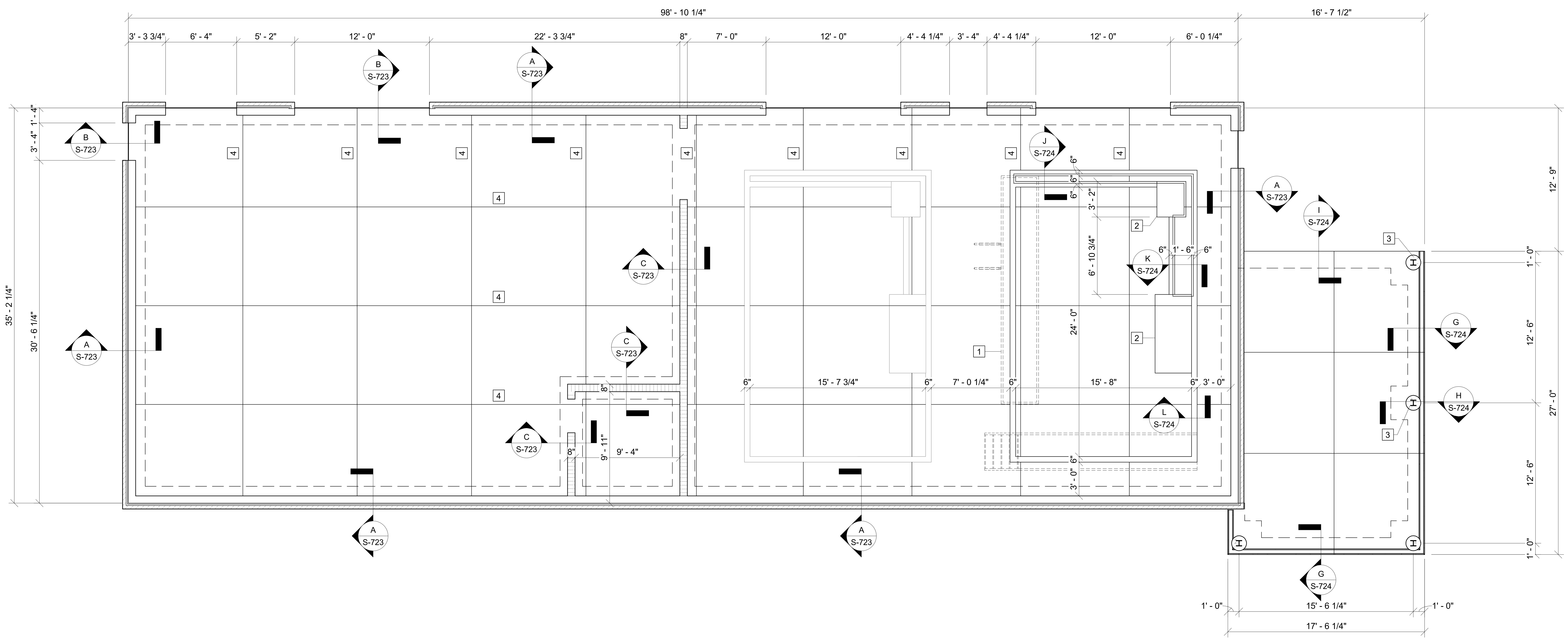
KEY NOTES: #

1. PREFABRICATED ACCESS PLATFORM BY OTHERS - SEE PROCESS
2. EQUIPMENT PAD - SEE S-002 FOR REINFORCEMENT DETAILS
3. PRE-ENGINEERED METAL BUILDING COLUMN BY PEMB SUPPLIER
4. CONTROL JOINT



1 S-721 **FOUNDATION PLAN**

SCALE: 3/16" = 1'-0"

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Designer:	TS
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DEWATERING BUILDING - FOUNDATION PLAN

S-721

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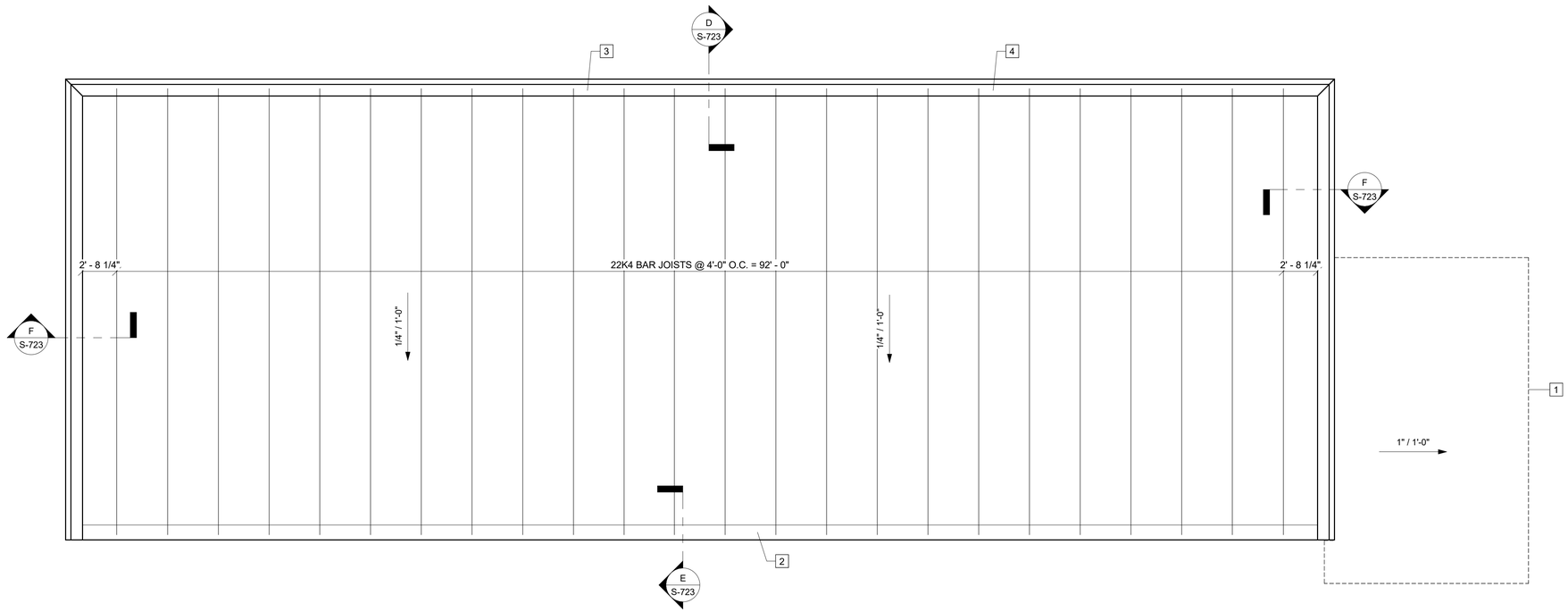
KEY NOTES: #

1. PRE-ENGINEERED METAL BUILDING CANOPY BY PEMB SUPPLIER
2. JOIST BEARING EL. = +17'-4" A.F.F.
3. JOIST BEARING EL. = +18'-0 1/2" A.F.F.
4. TOP OF PARAPET EL. = +19'-4" A.F.F.



1 S-722 ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

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1" .5" 0" 1"

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DEWATERING BUILDING - ROOF FRAMING PLAN

S-722

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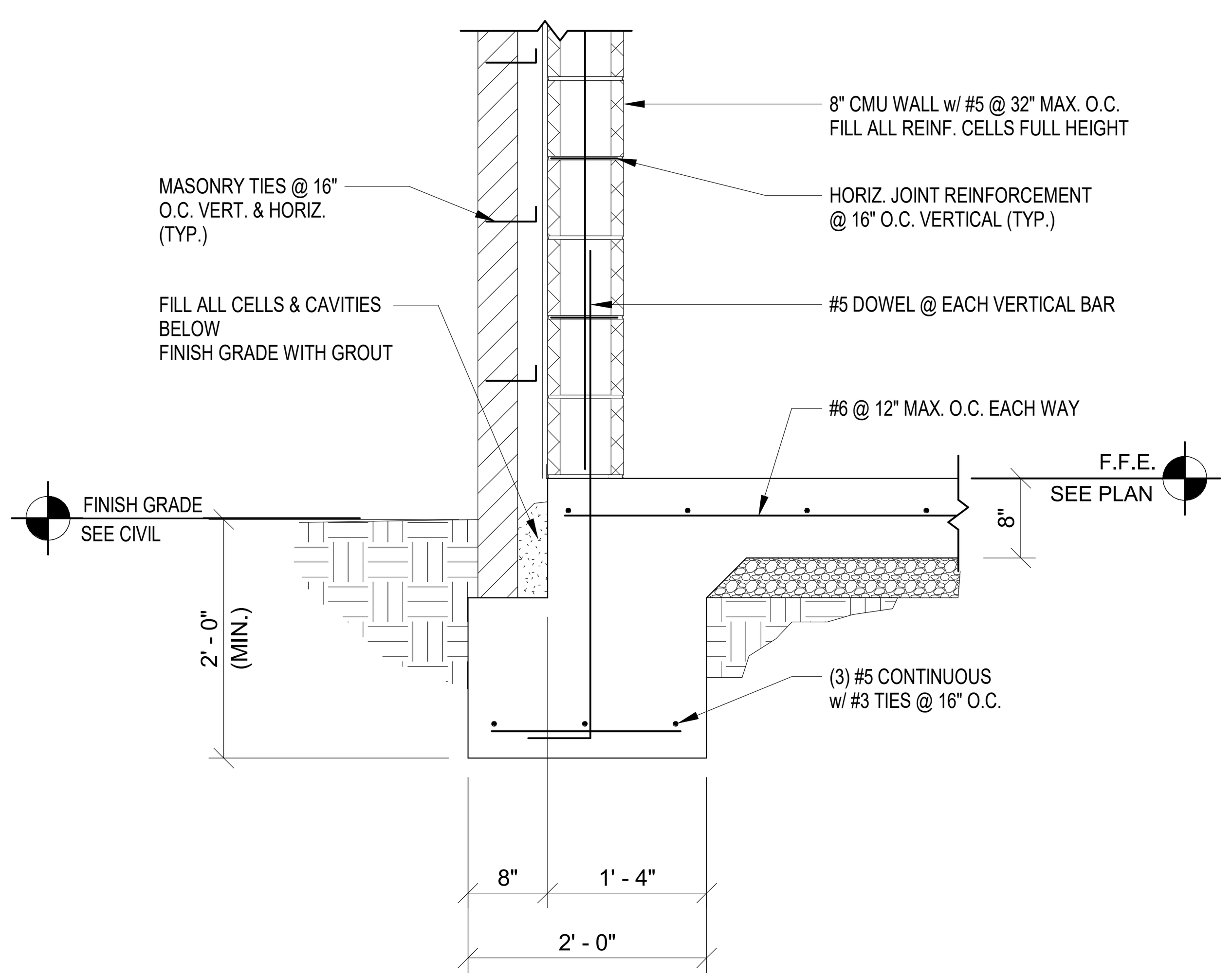
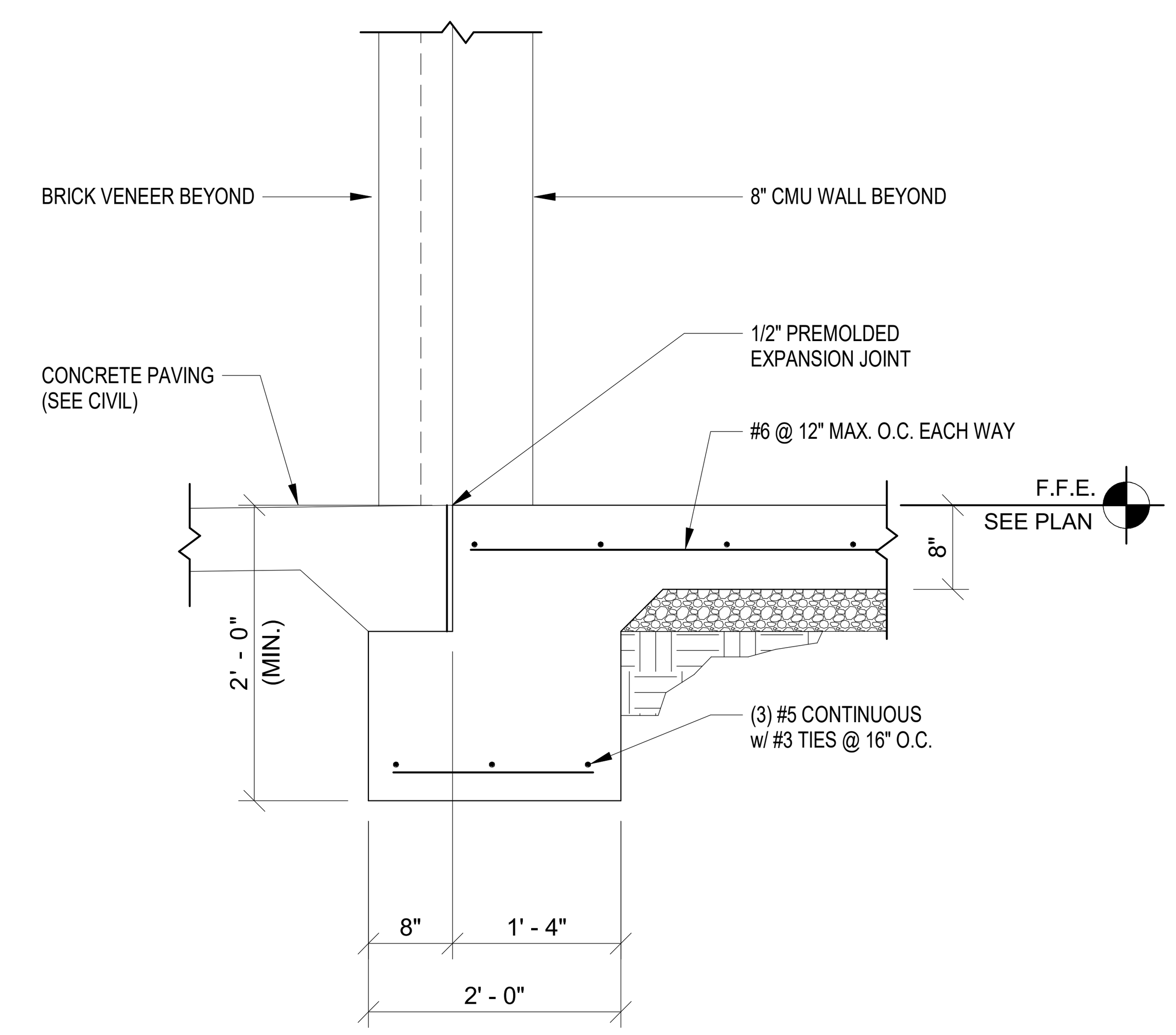
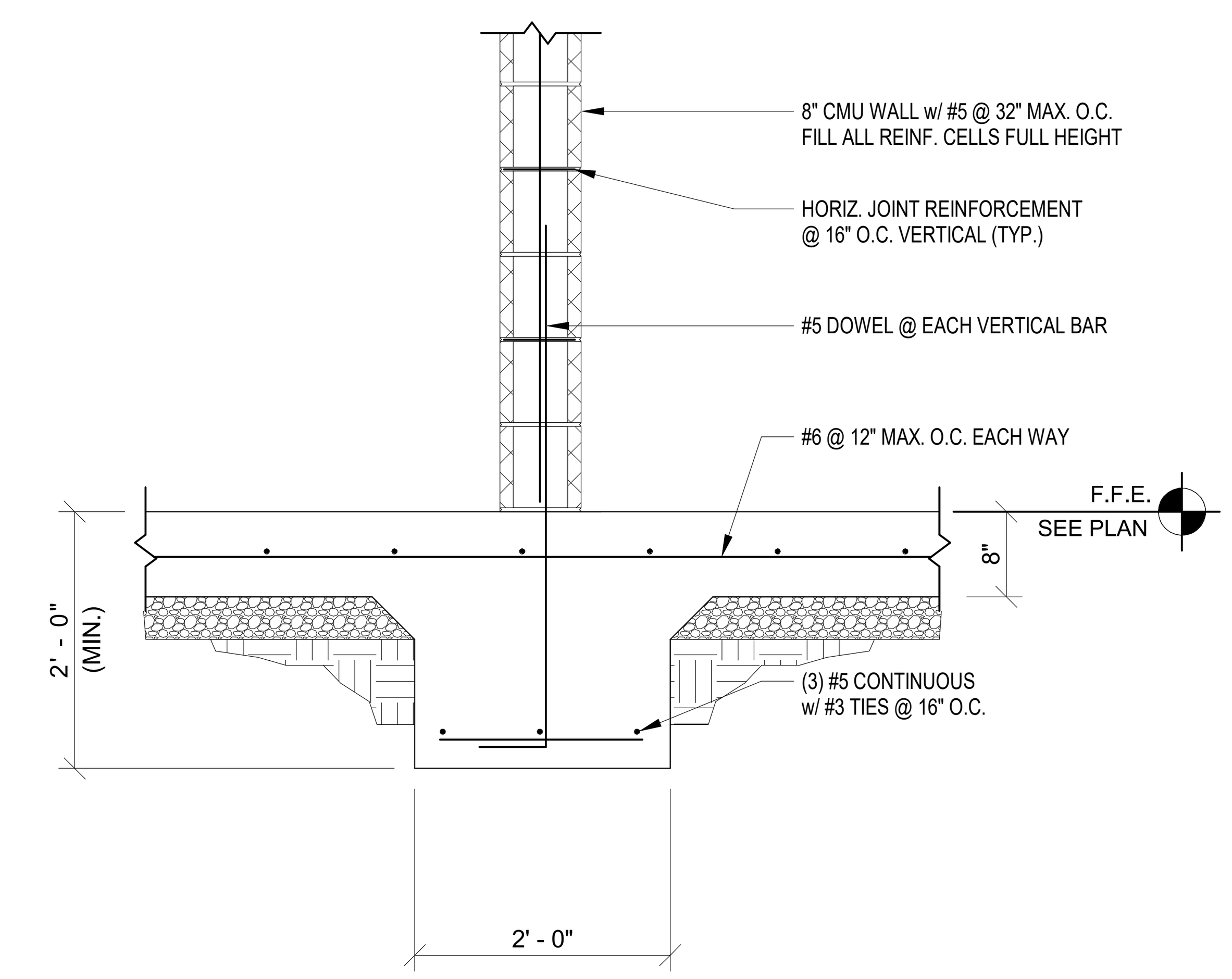


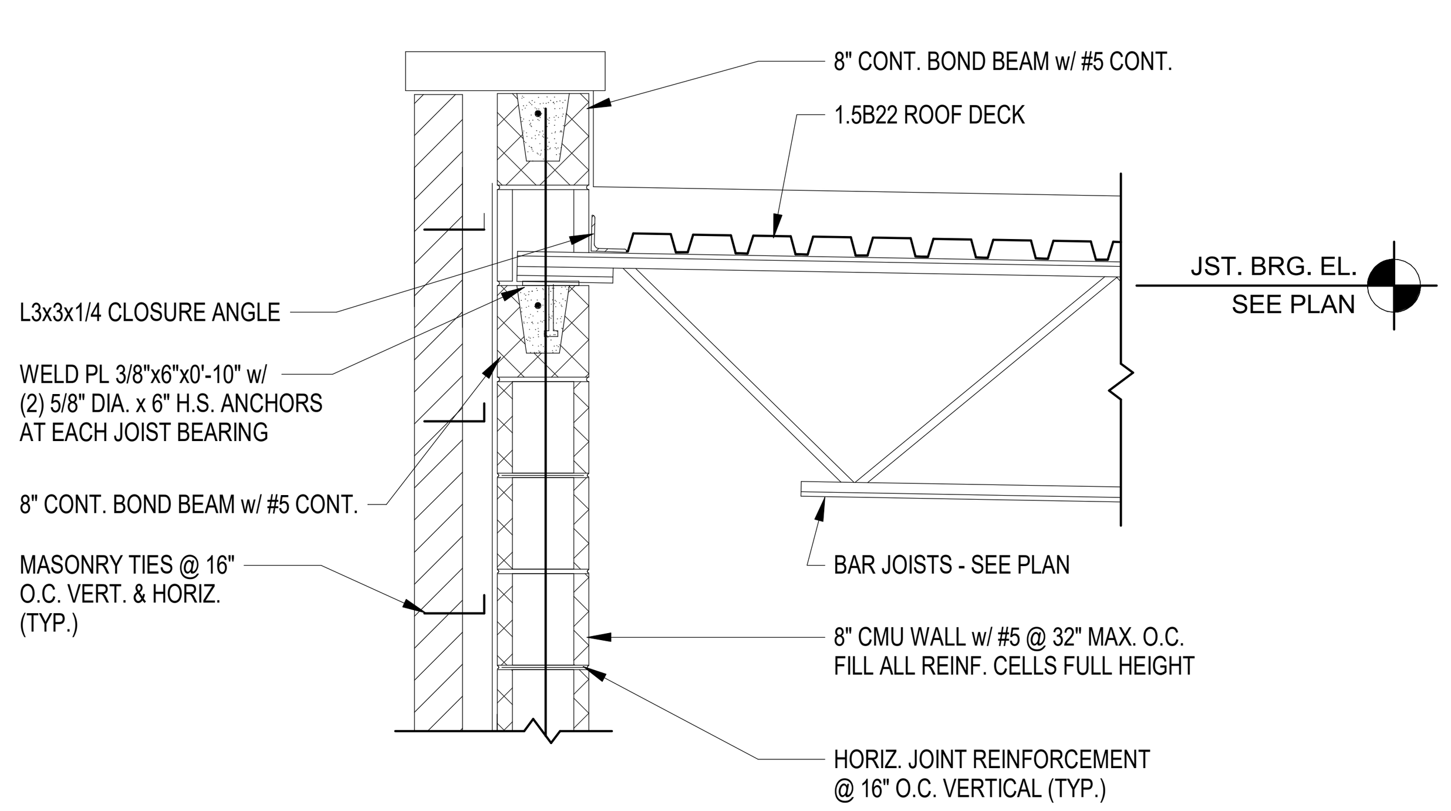
A **SECTION**
S-721 SCALE: 3/4" = 1'-0"



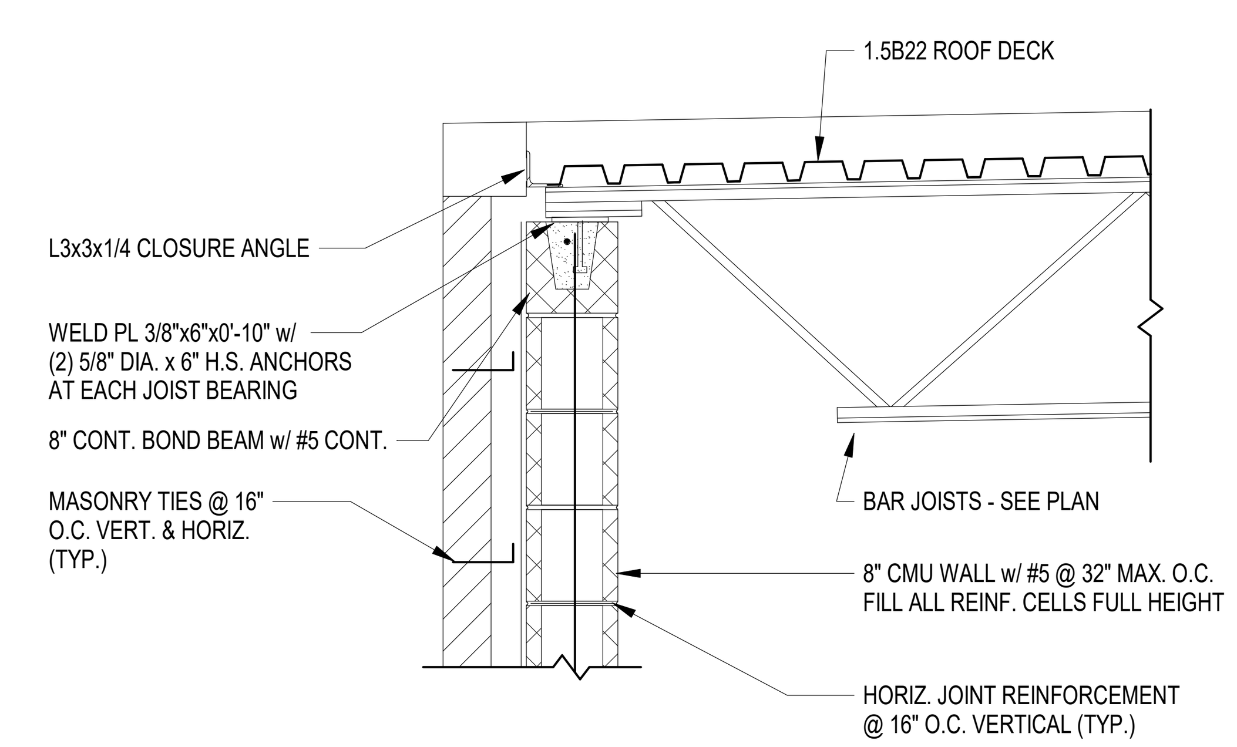
B **SECTION**
S-721 SCALE: 3/4" = 1'-0"



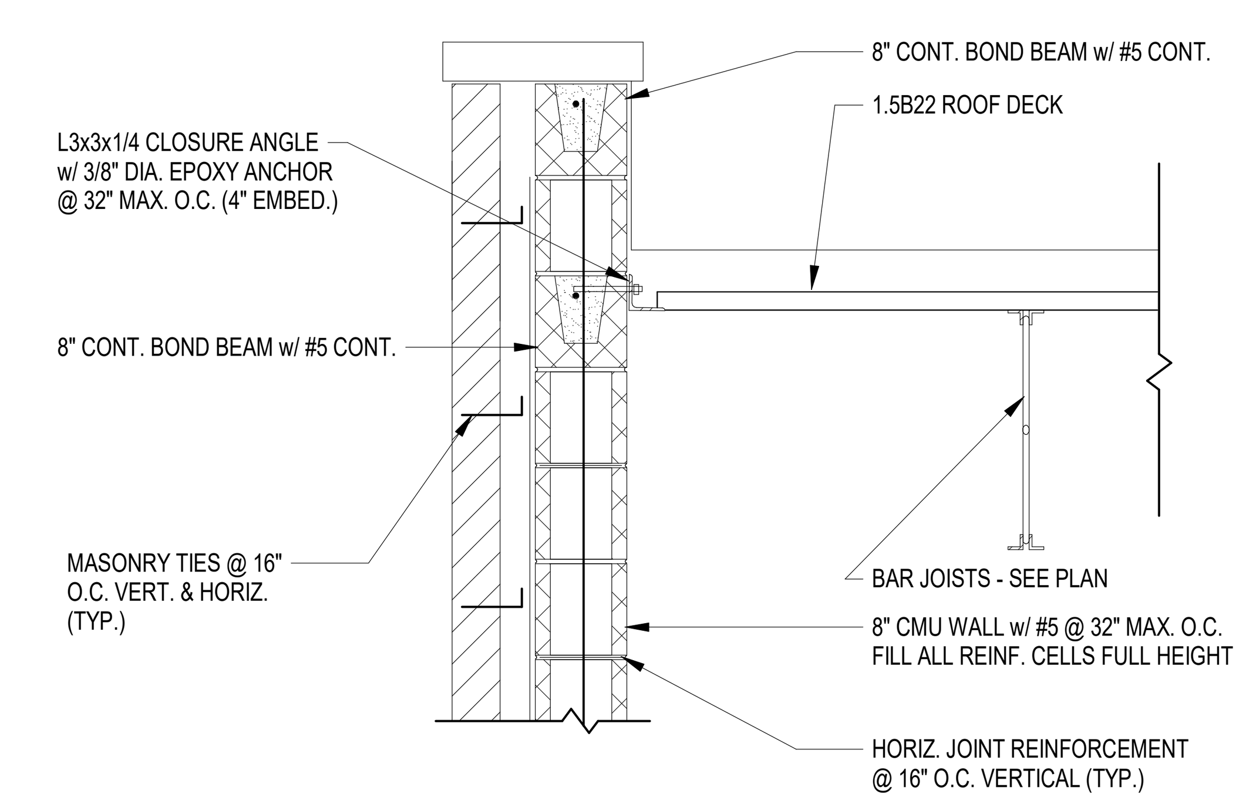
C **SECTION**
S-721 SCALE: 3/4" = 1'-0"



D **SECTION**
S-722 SCALE: 3/4" = 1'-0"



E **SECTION**
S-722 SCALE: 3/4" = 1'-0"



F **SECTION**
S-722 SCALE: 3/4" = 1'-0"

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DEWATERING BUILDING - SECTIONS

S-723

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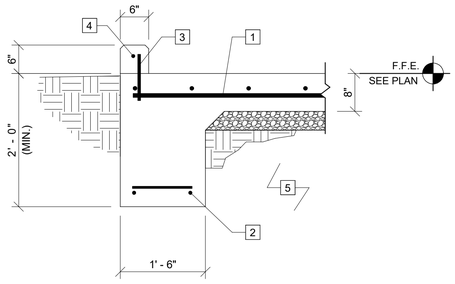
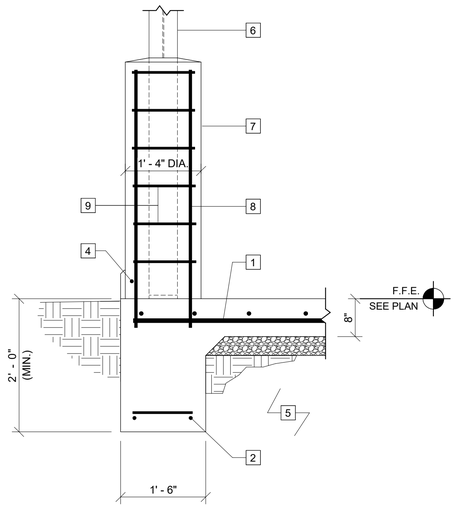
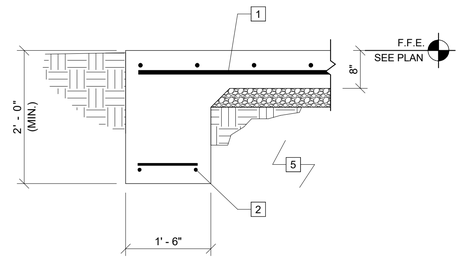


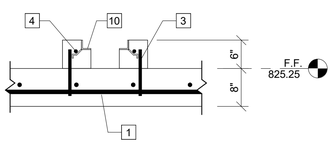
G SECTION
S-721 SCALE: 3/4" = 1'-0"



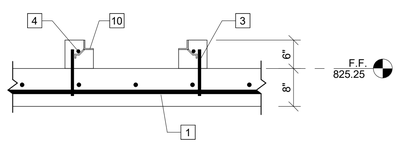
H SECTION
S-721 SCALE: 3/4" = 1'-0"



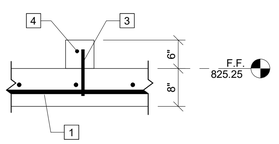
I SECTION
S-721 SCALE: 3/4" = 1'-0"



J SECTION
S-721 SCALE: 3/4" = 1'-0"



K SECTION
S-721 SCALE: 3/4" = 1'-0"



L SECTION
S-721 SCALE: 3/4" = 1'-0"

KEY NOTES: #

1. #6 @ 12" MAX. O.C. EACH WAY - CENTERED IN SLAB
2. (2) #5 CONTINUOUS w/ #3 TRANSVERSE @ 24" MAX. O.C.
3. #4 DOWELS @ 12" MAX. O.C. - DRILL & EPOXY 6" MIN.
4. #5 CONTINUOUS
5. SUBGRADE PREPARATION, BACKFILL & DRAINAGE PER GEOTECHNICAL ENGINEER
6. PRE-ENGINEERED METAL BUILDING CANOPY COLUMN AND CONNECTION BY PEMB SUPPLIER
7. 1'-4" DIAMETER CONCRETE PIER AROUND COLUMN
8. (6) #4 VERTICALS EQUALLY SPACED - DRILL & EPOXY 6" MIN.
9. #3 HOOPS @ 8" MAX. O.C.
10. PREFABRICATED GRATING SEAT EMBED - TYPICAL

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1" 0" .5" 1"

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Conformed Set		TS
		JD

Project Manager:
Engineer:
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Drawn By:

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GMC PROJECT #CATL230033

GEORGIA REGISTERED No. 19935 PROFESSIONAL ENGINEER JOSEPH W. WEATHERSBEE

DEWATERING BUILDING - SECTIONS

S-724

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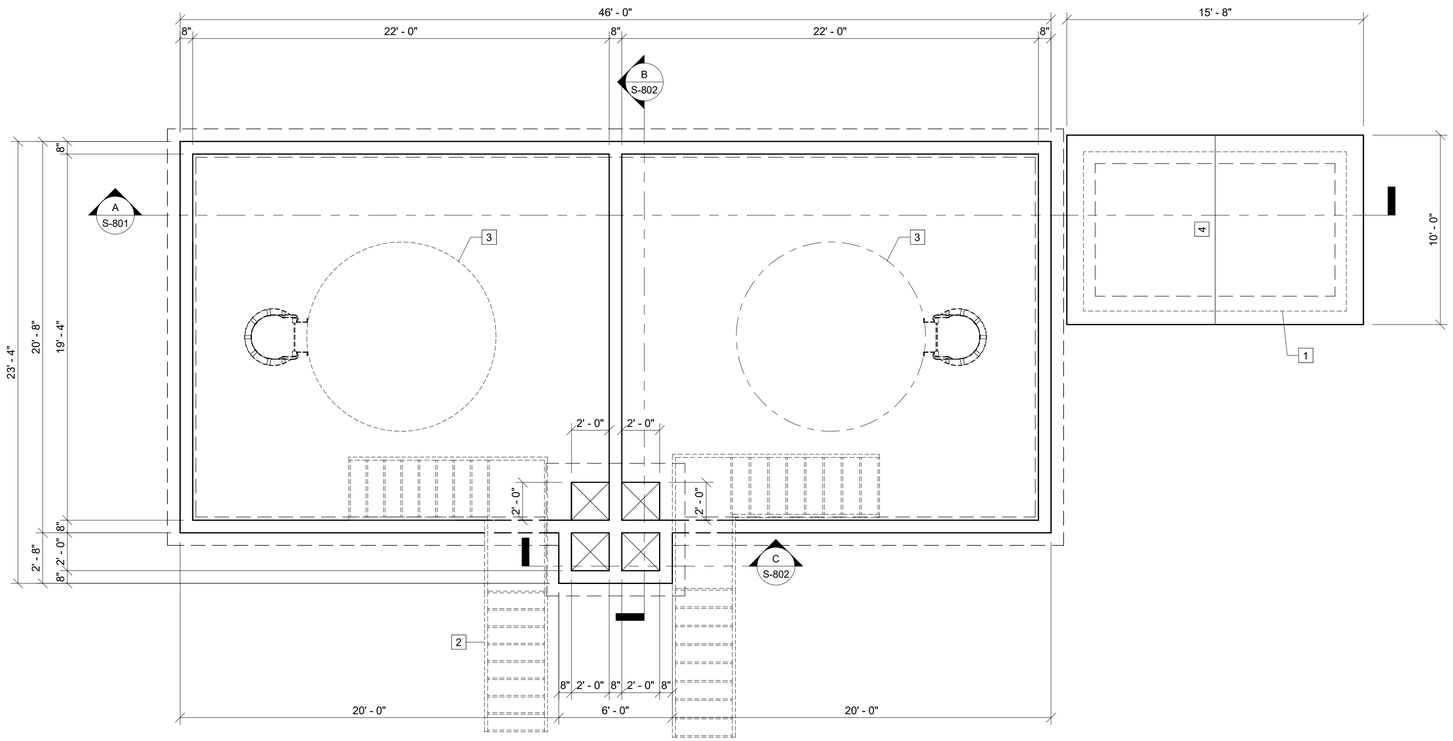
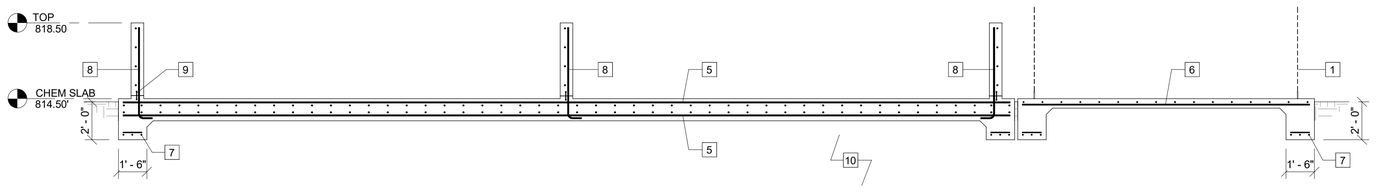


1 S-801 **PLAN**
SCALE: 1/4" = 1'-0"



A S-801 **SECTION**
SCALE: 1/4" = 1'-0"

KEY NOTES: #

1. PRE-MANUFACTURED FIBERGLASS BUILDING - SEE PROCESS
2. PREFABRICATED STAIR - SEE PROCESS
3. FOOTPRINT OF CHEMICAL TANK - SEE PROCESS
4. CONTROL JOINT
5. #6 @ 12" O.C. EACH WAY
6. #5 @ 12" O.C. EACH WAY - CENTERED IN SLAB
7. (3) #5 CONTINUOUS w/ #3 TRANSVERSE @ 24" O.C.
8. #6 @ 12" O.C. EACH WAY - CENTERED IN WALL
9. 6" PVC WATERSTOP - TYPICAL
10. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER

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1" 0" .5" 1"

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		JD

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Engineer:
Designer:
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CHEMICAL TANK FARM - PLAN AND SECTION

S-801

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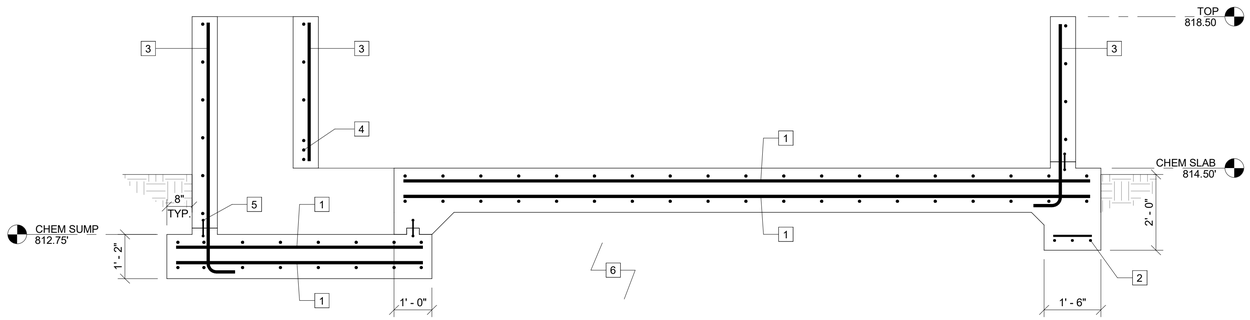
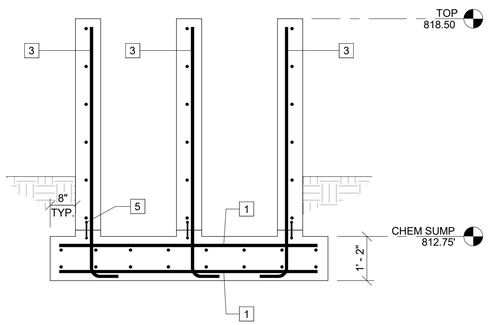


B **SECTION**
S-801 SCALE: 1/2" = 1'-0"



C **SECTION**
S-801 SCALE: 1/2" = 1'-0"

KEY NOTES: #

1. #6 @ 12" O.C. EACH WAY
2. (3) #5 CONTINUOUS w/ #3 TRANSVERSE @ 24" O.C.
3. #6 @ 12" O.C. EACH WAY - CENTERED IN WALL
4. (3) #5 HORIZONTAL OVER OPENING
5. 6" PVC WATERSTOP - TYPICAL
6. BACKFILL, DRAINAGE, AND SUBGRADE PREPARATION AS REQUIRED BY GEOTECHNICAL ENGINEER

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CHEMICAL TANK FARM - SECTIONS

S-802

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