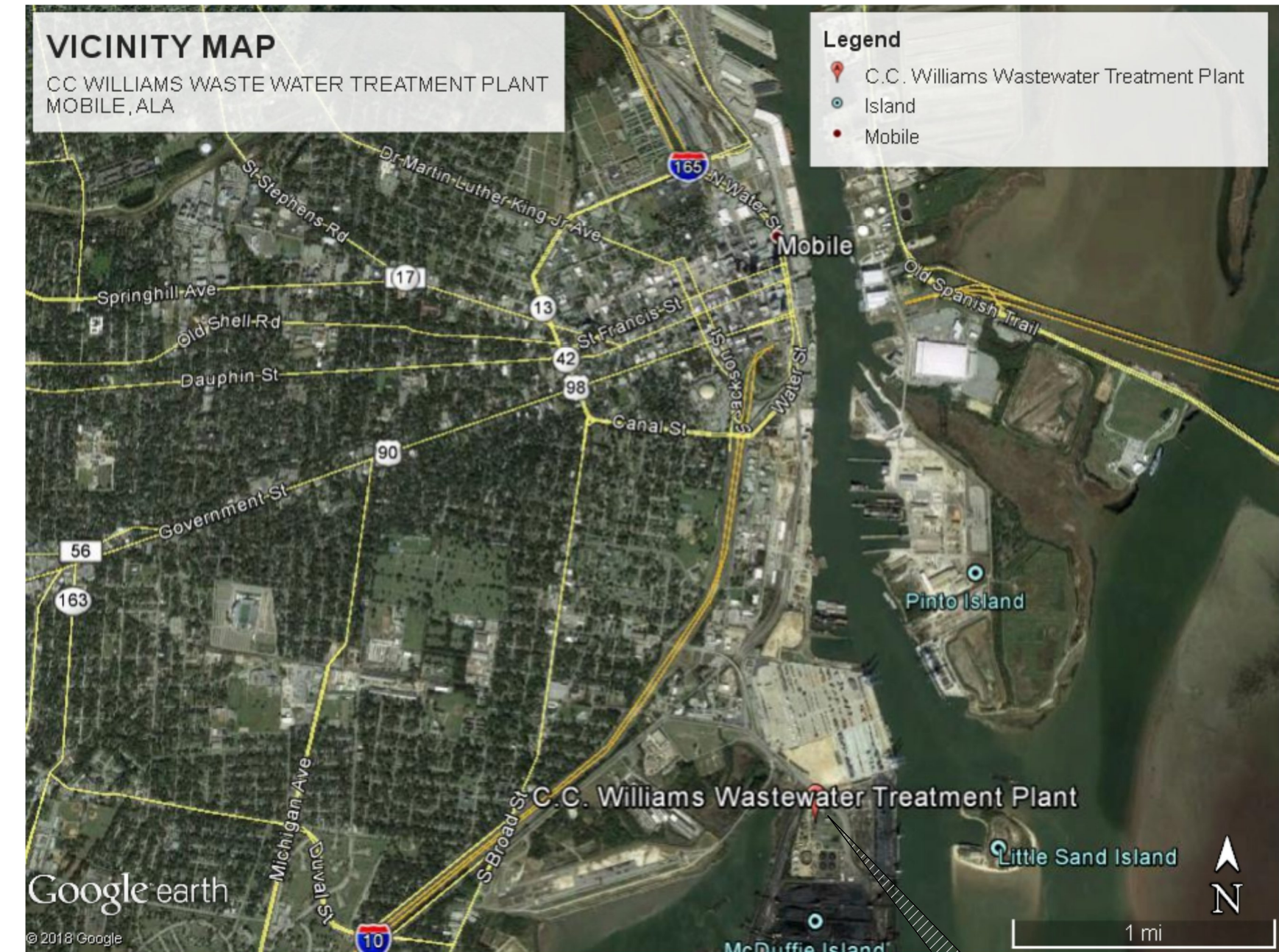


CC WILLIAMS WWTP DEWATERING AND OTHER IMPROVEMENTS



PROJECT VICINITY MAP

CC WILLIAMS WWTP



Board Members:
Walter A. Bell, Chair
Sheri N. Weber, Vice Chair
Thomas Zoghby, Secretary-Treasurer
Barabra Drummond
Kenneth W. Nichols
Maria Gonzalez
Raymond L. Bell Jr.

Director:
Bud McCrory

PREPARED FOR THE

MOBILE AREA WATER AND SEWER SYSTEM MOBILE, ALABAMA

DRAWINGS
VOLUME 4 OF 4

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Jacobs

JACOBS D3226100
CONFORMED MAY 2021

CONFORMED DOCUMENTS

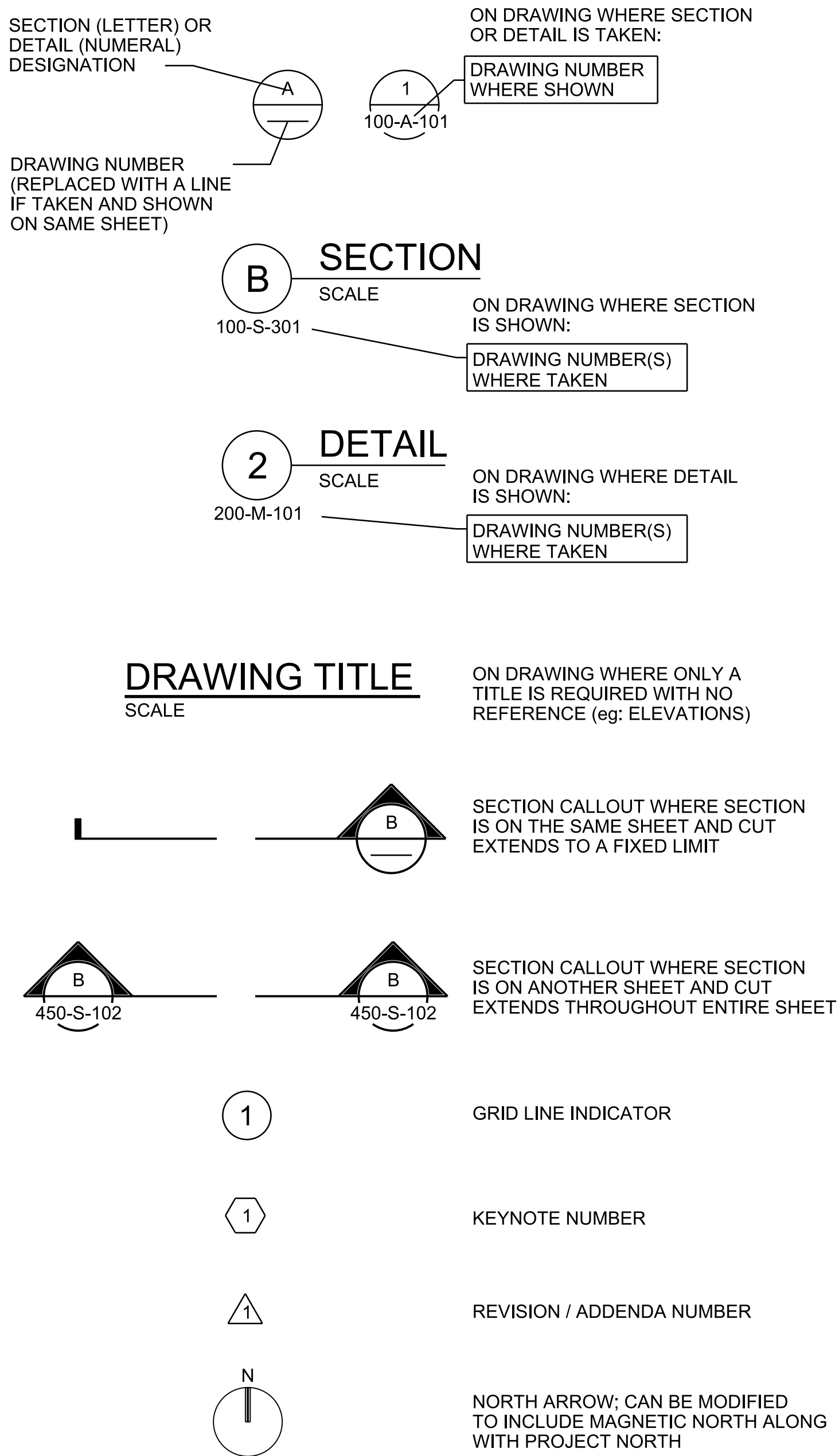
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05 - SITE WORK AND DEMOLITION			108 20-A-4003 109 20-A-5001 110 20-A-5002 111 20-A-5003 112 20-A-5004 113 20-A-6001 114 20-A-6002 115 20-A-6003 116 20-A-6004 117 20-F-2001 118 20-F-2002 119 20-FA-2001 120 20-FA-2002 121 20-FA-6001 122 20-P-2001 123 20-P-2002 124 20-P-2003 125 20-P-2004 126 20-P-4001 127 20-P-6001 128 20-P-9001 129 20-D-2001 130 20-D-2002 131 20-D-2003 132 20-D-3001 133 20-D-3002 134 20-D-3003 135 20-D-3004 136 20-D-3005 137 20-D-3006 138 20-D-4001			CIVIL OVERALL SITE PLAN CIVIL OVERALL EROSION AND SEDIMENT CONTROL AND DEMOLITION PLAN CIVIL DEMOLITION PLAN - 1 CIVIL DEMOLITION PLAN - 2 CIVIL DEMOLITION PLAN - 3 CIVIL DEMOLITION PLAN - 4 CIVIL PRE-LOADING SITE PLAN CIVIL SITE, LAYOUT, GRADING, SITE PLAN CIVIL SITE, LAYOUT, GRADING, AND DRAINAGE PLAN 2 CIVIL SITE, LAYOUT, GRADING AND DRAINAGE PLAN 3 CIVIL SITE, LAYOUT, GRADING, AND DRAINAGE PLAN 4 CIVIL YARD PIPING PLAN - 1 CIVIL YARD PIPING PLAN - 2 CIVIL YARD PIPING PLAN - 3 CIVIL YARD PIPING PLAN - 4			139 20-D-4002 140 20-D-4003 141 20-D-9001 142 20-D-9002 143 20-M-2001 144 20-M-2002 145 20-M-2003 146 20-M-3001 147 20-M-3002 148 20-M-4001 149 20-M-5001 150 20-M-6001 151 20-M-6002 152 20-M-6003 153 20-M-7001 154 20-M-7002 155 20-M-7003 156 20-E-2001 157 20-E-2002 158 20-E-2003			DEMOLITION 027 05-C-0001 028 05-C-1000 029 05-C-1001 030 05-C-1002 031 05-C-1003 032 05-C-1004 033 05-C-1101 034 05-C-2101 035 05-C-2102 036 05-C-2103 037 05-C-2104 038 05-Y-2001 039 05-Y-2002 040 05-Y-2003 041 05-Y-2004			06 - SITE ELECTRICAL AND SECURITY			042 06-E-2000 043 06-E-2001 044 06-E-2002 045 06-E-2002A 046 06-E-2003 047 06-E-2003A 048 06-E-2004 049 06-E-2005 050 06-E-5001 051 06-E-5002 052 06-E-5003 053 06-E-5004 054 06-E-6001 055 06-E-6002 056 06-E-6003 057 06-E-6004 058 06-TY-2001 059 06-TY-2002 060 06-TY-5001			ELECTRICAL OVERALL SITE PLAN EXISTING 13.2KV OVERHEAD LINE MODIFICATIONS ELECTRICAL OVERALL SITE PLAN ELECTRICAL PARTIAL SITE PLAN ELECTRICAL PARTIAL SITE PLAN - ALTERNATE ELECTRICAL PARTIAL SITE PLAN ELECTRICAL PARTIAL SITE PLAN - ALTERNATE ELECTRICAL PARTIAL SITE PLAN ELECTRICAL PARTIAL SITE PLAN ELECTRICAL OVERHEAD LINE DETAILS ELECTRICAL OVERHEAD LINE DETAILS ELECTRICAL OVERHEAD LINE DETAILS ELECTRICAL OVERHEAD LINE DETAILS ELECTRICAL DUCTBANK SCHEDULE ELECTRICAL DUCTBANK SCHEDULE ELECTRICAL DUCTBANK SCHEDULE ELECTRICAL DUCTBANK SCHEDULE ELECTRICAL OVERHEAD LINE DETAILS ELECTRICAL OVER		

ABBREVIATIONS

RDCCR	ROAD, ROOF DRAIN REDUCER	T T&B T&G	THERMOSTAT, TREAD TOP AND BOTTOM TONGUE AND GROOVE
RECIR	RECIRCULATION	TA	TRANSFER AIR
REF	REFER OR REFERENCE	TAN	TANGENT
REFR	REFRIGERATE, REFRIGERANT	TB	TERMINAL BOARD
REINF	REINFORCED, REINFORCING, REINFORCE	TBG	TUBING
REQD	REQUIRED	TC	TIME TO CLOSE
RESIL	RESILIENT		
RFS	ROLL-UP FIRE SHUTTER	TCAD	TIME CLOSE AFTER DE-ENERGIZATION
RH	RIGHT HAND	TCAE	TIME CLOSE AFTER ENERGIZATION
RH	ROD HOLE	TDH	TOTAL DYNAMIC HEAD
RHR	RIGHT HAND REVERSE	TDR	TIME DELAY RELAY
RL	RAIN LEADER	TECH	TECHNICAL
RLD	RAIN LOAD	TEL	TELEPHONE
		TEMP	TEMPORARY, TEMPERATURE
RM	ROOM	TF	TOP FACE
RO	ROUGH OPENING	TFG	TEMPERED FLOAT GLASS
ROL	RAISE-OFF-LOWER	TG	TEMPERED
RPM	REVOLUTIONS PER MINUTE	TH	TOP-HINGED
RR	RIPRAP	THD	THREAD
		THK	THICKNESS
RS	RIGID STEEL	THRU	THROUGH
RST	REINFORCING STEEL	TJB	TERMINAL JUNCTION BOX
RT	RIGHT		
RTN	RETURN	T.O.	TIME TO OPEN, TOP OF
		TOAE	TIME OPEN AFTER ENERGIZATION
RUB	RUBBER	TOC	TOP OF CONCRETE
RUBC	RUBBER CUSHIONED FLOORING	TOC	TOP OF CURB
RUBS	RUBBER ESD CONTROL FLOORING	TOD	TIME ON DELAY, TOP OF DUCT
R/W	RIGHT OF WAY		
S	I-BEAM	TOF	TOP OF FOOTING
S	SLOPE, SOUTH, SWITCH	TOG	TOP OF GROUT, TOP OF GRATE
SA	SUPPLY AIR	T.O.P.	TOP OF PARAPET
SATC	SUSPENDED ACOUSTICAL TILE CEILING	TOS	TOP OF SLAB
SB	SEDIMENT BASIN	TOW	TOP OF WALL
SC	SHOWER CURTAIN, SOLID CORE WOOD	TP	TURNING POINT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION	TPS	THERMAL PROTECTIVE SYSTEM
		TR	TRANSOM, TRUSS
SCC	SOLID CORE	TRANS	TRANSFORMER, TRANSITION
SCFM	STANDARD CUBIC FEED PER MINUTE	TRANSV	TRANSVERSE
SCHED	SCHEDULE	TRD	TREAD
SCU	SPEED CONTROL UNIT	TS	TEMPORARY SEEDING, TUBE STEEL
SDP	SUB-DISTRIBUTION PANEL	TSHT	THRESHOLD
SDWK	SIDEWALK	TSS	TOTAL SUSPENSION SOLIDS
SEC	SECONDARY	TST	TOP OF STEEL
SECT	SECTION	TTC	TELEPHONE TERMINAL CABINET
SED	SEDIMENTATION	TTD	TOILET TISSUE DISPENSER
SEW	SEWAGE	TU-X	TREATMENT UNIT NO. X
SG	LAMINATED SAFETY GLASS, SAFETY	TURB	TURBIDITY
SGWB	SUSPENDED GYPSUM WALL BOARD	TWP	TRANSLUCENT WALL PANEL
SH	SHEET	TX	TRANSFORMER
SHA	SURFACE HARDENING AGENT	TYP	TYPICAL
SHS	SOLIDS HANDLING SYSTEM		
SIM	SIMILAR	UON	UNLESS OTHERWISE NOTED
SK	SINK	UNO	UNLESS NOTED OTHERWISE
SL	SNOW LOAD	UPS	UNINTERRUPTIBLE POWER SUPPLY
SLR	SEALER	USB	UNIT SUBSTATION
SMLS	SEAMLESS EPOXY	UVR	UNDER VOLTAGE RELAY
SOI	SPRAY- ON INSULATION		
SOLN	SOLUTION	V	VENT, VALVE
SP	SPACE OR SPACES,	V	VOLTMETER, VOLTS
	SPANDREL PANEL, STORMPROOF	VB	VAPOR BARRIER (RETARDER)
SPEC, SPECS	SPECIFICATIONS	VC	VERTICAL CURVE
SPD	SUMP PUMP DISCHARGE	VCP	VITRIFIED CLAY PIPE
SPG	SPACING	VCT	VINYL COMPOSITION TILE
SPLY	SUPPLY	VEL	VELOCITY
SQ	SQUARE	VERT	VERTICAL
SQ FT	SQUARE FOOT, FEET	VHC	VOLATILE HYDROCARBONS
SQ IN	SQUARE INCH	VIB	VIBRATION
SR	SHORT RADIUS	VIF	VERIFY IN FIELD
SS	START-STOP	VIN	VINYL
SST	STAINLESS STEEL	VINT, VT	VINYL TILE
SSC	SUPERVISORY SET POINT CONTROL	VP	VERTICAL PIVOTED
ST	STORM DRAIN	VPS	VENEER PLASTER SYSTEM
ST	STRAIGHT	VPC	POINT OF VERTICAL CURVATURE
STA	STATUS, STATION	VPI	POINT OF VERTICAL INTERSECTION
STD	STANDARD	VPT	POINT OF VERTICAL TANGENT
STIF	STIFFENER	VS	VERTICAL SLIDE
STIRR	STIRRUP	VTR	VENT THRU ROOF
STL	STEEL	VWC	VINYL WALL COVERING
STRL	STRUCTURAL		
STRUCT	STRUCTURE		
SUBFL	SUBFLOOR		
SUSP	SUSPENDED		
SV	SOLENOID VALVE		
SVIN	SHEET VINYL		
SWBD	SWITCHBOARD		
SWGR	SWITCHGEAR		
SYMM	SYMMETRICAL		


W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER COLUMN
WEASTRIP	WEATHERSTRIP
WG	WIRE, WIRE GLASS
WH	WATTHOUR METER
WHD	WATTHOUR DEMAND METER
WP	WATERPROOF, WEATHERPROOF, WORKPOINT
WR	WASTE RECEPTACLE
WRB	WATER RESISTANT GWB
WS	WATER SURFACE, WATERSTOP, WELDED STEEL
WWF	WELDED WIRE FABRIC

SECTION / DETAIL DESIGNATIONS



STANDARD DESIGN DETAIL DESIGNATION

STANDARD DESIGN
DETAIL
DESIGNATION
(NUMERAL)



1234-567

SHOWN ON DESIGN
DETAIL DRAWING(S)

NOTES:

1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN
2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONYMOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

GENERAL NOTE:

1. THIS IS A STANDARD LEGEND SHEET.
THEREFORE, NOT ALL OF THE INFORMATION
SHOWN MAY BE USED ON THIS PROJECT.

SURVEY NOTES

1. THE TOPOGRAPHIC AND BOUNDARY SURVEY SERVING AS THE BASE MAP WAS PREPARED BY McCORRY WILLIAMS INCORPORATED, SEPTEMBER 2019.
2. HORIZONTAL DATUM: NAD 83 ALABAMA WEST.
3. VERTICAL DATUM: NAVD 1988.
4. THE McCORRY WILLIAMS SURVEY USED CONTROL POINTS ARCS 4, ARCS 8, ACRS 11, AND ACRS 3804 (SEE PLANS) FOR VERTICAL AND HORIZONTAL CONTROL. CONTROL POINTS LOCATED WITHIN THE CONSTRUCTION AREA AND SHALL BE RE-ESTABLISHED. AT LEAST 3 NEW PERMANENT BENCHMARKS SHALL BE LOCATED ONSITE.
5. HORIZONTAL & VERTICAL CONTROL POINTS ARE ALUMINUM CAPPED 1/2" REBAR SET FLUSH WITH GROUND. SURVEY IS IN STATE PLANE ALABAMA WEST ZONE. ELEVATIONS ARE NAVD 88 DATUM DERIVED FROM GPS OBSERVATIONS UTILIZING CORS STATION AL 90.
6. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
7. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
8. CONTRACTOR SHALL RELOCATE EXISTING SURVEY CONTROL POINT(S) AS REQUIRED TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENTS.

CIVIL NOTES

1. COORDINATES AND DIMENSIONS SHOWN ARE TO THE OUTER EDGE OF STRUCTURE, POINT OF INTERSECTION, POINT OF TANGENT, OR AS INDICATED ON THE DRAWINGS.
2. ELEVATIONS GIVEN ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS AS SHOWN.
3. ADDITIONAL INFORMATION REGARDING EXISTING BURIED UTILITIES IS PROVIDED IN THE HISTORICAL DRAWINGS AS INCLUDED AS AN APPENDIX TO THE CONTRACT DRAWINGS. EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
4. UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 3 FEET COVER.
5. ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
6. CONTRACTOR SHALL MINIMIZE ANY DISTURBANCE OF AREAS OUTSIDE OF THE INDICATED WORK AREA. ALL SUCH DISTURBANCES SHALL BE REPAIRED AT NO ADDITIONAL COST. CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF EXISTING PARCEL.
7. THE CONTRACTOR SHALL REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, IRRIGATION LINES, CONDUIT, CABLES, ETC. AS A RESULT OF THE CONSTRUCTION ACTIVITIES.
8. NO DEBRIS OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
9. ALL REFERENCES TO ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIFICATIONS REFER TO ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, UNLESS OTHERWISE NOTED.
10. ALL SITE WORK, MATERIAL, AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE MOBILE AREA WATER AND SEWER SYSTEM (MAWSS) STANDARDS AND THE LATEST EDITION OF THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED. IN THE EVENT OF CONFLICTS OR OMISSIONS FROM THE CONSTRUCTION DOCUMENTS, MAWSS STANDARDS SHALL PREVAIL.
11. ALL DISTURBED AREAS NOT SCHEDULED FOR PAVEMENT SHALL BE SODDED. ALL AREAS WITH SLOPES GREATER THAN 1-IN-4 SHALL BE SODDED AND STAKED.
12. ALL OPERATIONS OF VALVING WITHIN ACTIVE TREATMENT PLANT COMPONENTS WILL BE BY PLANT STAFF ONLY. SUBMIT ALL VALVING OPERATION REQUESTS TO THE OWNER IN WRITING.
13. THE COST FOR DEWATERING AND EROSION CONTROL SHALL BE INCLUDED IN THE PRICE FOR ITEMS OF WORK IN THE BID SCHEDULE.
14. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ALONG EACH PIPE MAIN ROUTE PRIOR TO COMMENCING CONSTRUCTION OF THAT MAIN. IF THE PROPOSED MAIN IS FOUND TO BE IN CONFLICT WITH EXISTING UTILITIES, THE LINE AND GRADE OF THE PROPOSED MAINS SHALL BE ADJUSTED TO MINIMIZE THE CONFLICTS AT NO ADDITIONAL COST TO THE OWNER. SIGNIFICANT ROUTE MODIFICATIONS MUST BE APPROVED BY THE ENGINEER.
15. DEWATERING DURING EXCAVATION AND BACKFILLING OPERATIONS SHOULD BE ANTICIPATED. SHOULD CONTINUOUS DEWATERING BECOME NECESSARY, A WELL POINT SYSTEM MAY BE NECESSARY. CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL PERMITS ASSOCIATED WITH DEWATERING DURING CONSTRUCTION.
16. ALL PROPOSED YARD PIPING SHALL CONNECT TO EXISTING WHERE INDICATED IN THE PLANS. UTILIZE SLEEVES AND FITTINGS AS NECESSARY.
17. ALL YARD PIPING EXCEPT GRAVITY SEWER SHALL HAVE RESTRAINED JOINTS.
18. BACKFILL ALL RESULTING EXCAVATIONS OR VOIDS TO THE PROPOSED GRADE WITH SELECT FILL MATERIAL COMPACTED AS SPECIFIED.
19. PROTECT ALL FEATURES, STRUCTURES, PIPING, AND CONDUIT NOT SCHEDULED TO BE REMOVED. REPAIR ANY DAMAGED FACILITIES TO THEIR PRE-EXISTING CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.
20. ALL DISTURBED AREAS NOT STABILIZED WITH PAVEMENT SHALL BE SODDED PER ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION.
21. OBTAIN CAD FILE FROM THE ENGINEER FOR CONSTRUCTION LAYOUT OF YARD PIPING.

CITY OF MOBILE LAND DISTURBANCE PERMIT ADDITIONAL NOTES

1. CONTRACTOR SHALL CONTACT CITY ENGINEERING DEPARTMENT VIA E-MAIL AT LAND.DISTURBANCE@CITYOFMOBILE.ORG AT LEAST 24 HOURS PRIOR TO BEGINNING ANY WORK ON THIS SITE, TO SCHEDULE AN INITIAL ON-SITE BMP INSPECTION WITH THE APPROPRIATE CITY ENGINEERING INSPECTOR. FAILURE TO CONTACT THE CITY ENGINEERING DEPARTMENT PRIOR TO BEGINNING ANY WORK IS A VIOLATION OF THE STORM WATER MANAGEMENT AND FLOOD CONTROL ORDINANCE AND MAY INVOKE ENFORCEMENT ACTION IN THE FORM OF A MUNICIPAL OFFENSE TICKET.
2. THE LAND DISTURBANCE PERMIT EXPIRES UPON THE COMPLETION OF THE WORK OR NOT LATER THAN ONE (1) YEAR FROM THE DATE OF APPROVAL. (17-6.A)
3. THE CONTRACTOR SHALL SIZE, INSTALL, AND MAINTAIN ADEQUATE CONTROLS FOR THE SITE. REFER TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.
4. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTION AND CONTINUED MAINTENANCE OF EROSION CONTROL ELEMENTS.
5. CURRENT ZONING OF THE SUBJECT PARCEL: I-2 HEAVY INDUSTRIAL.

CITY OF MOBILE STANDARD EROSION & SEDIMENTATION LAND CONSERVATION NOTES

1. NO DISTURBED AREA WILL BE DENUDE FOR MORE THAN 10 CALENDAR DAYS UNLESS UNDER ACTIVE CONSTRUCTION OR OTHERWISE AUTHORIZED BY THE CITY ENGINEER OR HIS AGENT. (NUMBER OF DAYS TO BE DETERMINED BY REVIEWER.)
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING.
3. ALL TEMPORARY EARTH BERMS DIVERSIONS AND SEDIMENT DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCK PILES.
4. DURING CONSTRUCTION ALL STORM SEWER INLETS WILL BE PROTECTED BY SEDIMENT TRAPS, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.

CITY OF MOBILE LAND CONSERVATION NOTES - SANITARY SEWERS

1. NO DISTURBED AREAS TO BE DENUDED FOR MORE THAN 10 DAYS UNLESS UNDER ACTIVE CONSTRUCTION.
2. TEMPORARY DIVERSIONS, SEEDED AND MULCHED OR STAKED STRAW BALE DIVERSIONS AND OTHER CONTROL MEASURES AS NECESSARY ARE TO BE PLACED AS INDICATED ON THE DRAWINGS PRIOR TO OR AS THE FIRST STEP IN EXCAVATION.
3. WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL IS TO BE PLACED IN STREAMBEDS. ANY STOCKPILE MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 30 DAYS IS TO BE SEEDED FOR TEMPORARY VEGETATION AND MULCHED WITH STRAW MULCH. WHERE SPOIL IS PLACED ON DOWNHILL SIDE OF TRENCH, WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE MUST OUTLET IN A STABILIZED AREA OR SEDIMENT BASIN.

ROAD MAINTENANCE NOTES

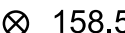
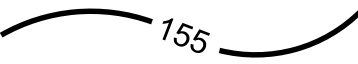
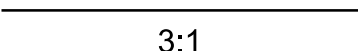
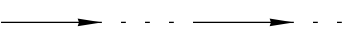









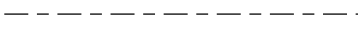
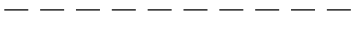



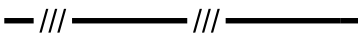
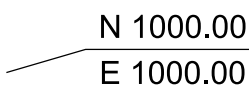


1. DURING CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF YEEND STREET AND THE EXISTING SITE DRIVES TO MAINTAIN CONTINUOUS VEHICLE ACCESS TO THE EXISTING FACILITIES.
2. MAINTENANCE SHALL INCLUDE WEEKLY SWEEPING OF PAVEMENT, REPAIR OF POTHoles AND DAMAGE.
3. THE CONTRACTOR SHALL UTILIZE THE AREA(S) AS INDICATED IN THE DRAWINGS FOR LAYDOWN, STORAGE, AND STAGING. THESE AREA(S) SHALL INCLUDE A CONSTRUCTION ENTRANCE AND SHALL BE TEMPORARILY FENCED WITH ACCESS CONTROLLED BY THE CONTRACTOR. THE CONTRACTOR SHALL RETURN THE AREA TO THE PRE-CONSTRUCTION CONDITION AS A CONDITION OF FINAL COMPLETION.





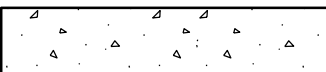

EROSION AND SEDIMENT CONTROL NOTES

1. OWNER WILL PROVIDE THE CONTRACTOR A TIER 1 LAND DISTURBANCE PERMIT. CONTRACTOR TO SUBMIT AND OBTAIN APPROVAL FOR THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) AND NOTICE OF INTENT (NOI) FOR A NPDES CONSTRUCTION GENERAL PERMIT. THE PROJECT SITE IS WITHIN AN ALABAMA PRIORITY WATERSHED AND THE CONTRACTOR SHALL COMPLY WITH THE ASSOCIATED SPECIAL REQUIREMENTS.
2. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS. IF ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO PREVENT OFF SITE MIGRATION OF STORM WATER RUNOFF, THE CONTRACTOR SHALL INFORM THE CLIENT AND ENGINEER AND IMPLEMENT ADDITIONAL CONTROL MEASURES AS REQUIRED.
3. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 10 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
4. STRUCTURAL PRACTICES SHALL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS AND STORM DRAINS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE TO THE DEGREE ATTAINABLE. SUCH PRACTICES MAY INCLUDE SILT FENCES, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, AND STORM DRAIN INLET PROTECTION. STRUCTURAL PRACTICES SHOULD BE PLACED ON UPLAND SOILS TO THE DEGREE ATTAINABLE.
5. LOCAL, STATE AND MANUFACTURER'S METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILLS WILL BE CLEANED UP IMMEDIATELY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
6. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES UNTIL PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAIN EVENT, AND SHALL BE IMMEDIATELY REPAIRED OR REPLACED IF FOUND TO BE DEFECTIVE.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE ANY REQUIRED DEWATERING EFFORTS AND DISCHARGES IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
8. EROSION CONTROL MEASURES DEPICTED IN THESE PLANS SHALL BE CONSIDERED A MINIMUM. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A COMPLETE EROSION CONTROL PLAN AS WELL AS A CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) AN ADEM NPDES PERMIT CONSISTENT WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL MAINTAIN THOSE BEST MANAGEMENT PRACTICES THROUGHOUT THE DURATION OF CONSTRUCTION.

CIVIL LEGEND

EXISTING TOPOGRAPHY AND OTHER AS-BUILT SITE FEATURES ARE SHOWN SCREENED. SEE TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY SURVEYOR.

- | | |
|---|---|
|  | SPOT ELEVATION |
|  | CONTOUR LINE |
|  | EMBANKMENT AND SLOPE |
|  | DRAINAGEWAY OR DITCH |
|  | CATCH BASIN OR INLET |
|  | SIGN |
|  | MANHOLE |
|  | POST OR GUARD POST |
|  | GUY ANCHOR |
|  | UTILITY POLE |
|  | LIGHT POLE |
|  | SURVEY CONTROL POINT OR BENCHMARK |
|  | PROPERTY LINE |
|  | CENTER LINE, BUILDING, ROAD, ETC. |
|  | EASEMENT LINES |
|  | FLOOD ZONE |
|  | DECORATIVE FENCE/GATE
(ADDITIVE ALTERNATE) |
|  | DECORATIVE FENCE/GATE (BASE BID) |
|  | SILT FENCE |
|  | STRUCTURE, BUILDING OR FACILITY
LOCATION POINT - COORDINATES |
|  | BORING LOCATION AND NUMBER |
|  | DEMOLITION |

- | | |
|--|---------------------------------|
|  OR  | STRUCTURE, BUILDING OR FACILITY |
|  | GRAVEL SURFACING |
|  | ASPHALT PAVEMENT |
|  | CONCRETE PAVEMENT/SIDEWALK |
|  | RIPRAP |

SEQUENCE OF CONSTRUCTION

1. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND CONSTRUCTION AS INTEGRAL COMPONENTS OF A COORDINATED PHASED CONSTRUCTION PLAN.
2. THE PLAN SHALL PROTECT THE ABILITY OF THE PLANT TO CONTINUOUSLY MAINTAIN CURRENT TREATMENT LEVELS WITHOUT INTERRUPTION. MAINTAIN EXISTING PROCESS ACTIVITIES UNTIL NEW FACILITIES HAVE BEEN TESTED, STARTED UP AND ACCEPTED READY FOR OPERATION.
3. THE PLAN SHALL MINIMIZE DISRUPTION OF NON-PROCESS ACTIVITIES AND OPERATION OF THE PLANT.
4. CONTRACTOR SHALL DEVELOP AND SUBMIT FOR APPROVAL A "SEQUENCE OF CONSTRUCTION PLAN" WHICH INDICATED THE FOLLOWING:
 - A. COMPLIANCE WITH THE REQUIREMENTS OF THESE NOTES (EXCEPT AS SPECIFICALLY APPROVED).
 - B. EACH SIGNIFICANT PHASE OF CONSTRUCTION.
 - C. THE STATUS OF EACH IMPACTED FACILITY DURING EACH RESPECTIVE PHASE.
 - D. THE MILESTONES TO BE OBTAINED AS PREREQUISITES TO THE INITIATION OF THE NEXT PHASE (EG: THE OPERATIONAL TESTING OF THE NEW CHLORINATION FACILITIES BEFORE CHANGING THE CHLORINE SOLUTION SOURCE LOCATION).
5. INSTALLATION OF THE NEW DEWATERING STRUCTURE AND FACILITIES SHALL INCLUDE THE FOLLOWING ACTIONS GENERALLY IN THE FOLLOWING ORDER EXCEPT AS SPECIFICALLY APPROVED OTHERWISE:

- A. INSTALL EROSION CONTROL MEASURES IN THE AREA OF THE PROPOSED CONSTRUCTION AS REQUIRED TO PREVENT OFF-SITE SEDIMENTATION AND ON-SITE FACILITY DISRUPTION.
- B. INSTALL, TEST AND CONNECT ALL TEMPORARY AND PERMANENT UTILITIES AND PROCESS MAINS AS REQUIRED TO VACATE THE AREA OF THE PROPOSED DEWATERING FACILITY. (EXCLUDES NEW CONNECTIONS AND SERVICES TO THE DEWATERING BUILDING). INCLUDE PROVISIONS FOR TEMPORARY SANITARY SERVICE TO THE BLOWER BUILDING, ADMINISTRATION BUILDING, AND MAINTENANCE BUILDING. INCLUDE THE MONOPOLE RELOCATION AND REPOWERING. INCLUDE RECONNECTION OF THE VIRGINIA STREET INFLUENCE FLOW METER.
- C. INSTALL, TEST AND ACTIVATE THE TEMPORARY OPERATIONAL CONTROL AND COMMUNICATIONS FACILITIES AND ACCESSORIES AS REQUIRED TO VACATE THE OPERATIONS BUILDING AND ALLOW THE REQUIRED DEMOLITION WHILE MAINTAINING PLANT CONTROL CAPABILITIES. INCLUDE RECONNECTION OF THE ADMINISTRATION BUILDING AND ALL TREATMENT COMPONENTS TO THE CONTROL AND COMMUNICATIONS SYSTEM.
- D. PERFORM THE REQUIRED DEMOLITIONS OF THE OPERATIONS BUILDING, AREA UTILITIES, AREA PROCESS MAINS AND OTHER COMPONENTS NORTH OF THE DECOMMISSIONED PRIMARY CLARIFIER BASIN TO ALLOW THE PROPOSED CONSTRUCTION.
- E. PERFORM THE REQUIRED PRELOADING OF THE SITE FOR THE DEWATERING BUILDING AREA.
- F. PERFORM DEMOLITION AND BACKFILLING OF THE DECOMMISSIONED PRIMARY CLARIFIER BASIN AND ANY OTHER REMAINING COMPONENTS INDICATED FOR DEMOLITION IN THE AREA TO ALLOW THE PROPOSED CONSTRUCTION.
- G. CONSTRUCT NEW DEWATERING BUILDING COMPLETE AND OPERATIONAL IN ALL RESPECTS WITH THE EXCEPTION OF THE EXISTING BELT PRESS. INCLUDE THE INSTALLATION OF THE PLANT SEWER PUMP STATION #2, ALL ASSOCIATED SITE UTILITIES, SITE WORK AND PROCESS CONNECTIONS (VALVED OFF). PERFORM ALL BUILDING SYSTEM TESTING, STARTUP AND ACTIVATIONS AND OBTAIN CITY APPROVAL FOR BUILDING AND OCCUPANCY.
- H. PERFORM ALL OPERATIONAL TESTING, STARTUP AND ACTIVATIONS OF THE NEW PLANT CONTROL SYSTEM. ACTIVATE THE NEW SYSTEM WITH OWNER APPROVAL AND TURN OVER TO THE OWNER FOR OPERATION EXCLUSIVE OF THE NEW DEWATERING SYSTEM. CONNECT ALL TEMPORARY COMMUNICATIONS AND CONTROL SIGNALS TO THE NEW SYSTEM. TEST AND ACTIVATE. DISCONTINUE THE TEMPORARY CONTROL SYSTEM.
- I. MAKE ALL FINAL CONNECTIONS OF UTILITIES, PROCESS MAINS, AND COMMUNICATIONS TO THE NEW DEWATERING BUILDING. DISCONTINUE ANY TEMPORARY FACILITIES REMAINING IN THE AREA.
- J. PERFORM ALL OPERATIONAL TESTING, STARTUP AND ACTIVATIONS OF THE NEW DEWATERING SYSTEM EXCLUSIVE OF THE BELT PRESS TO BE RELOCATED. ACTIVATE THE NEW SYSTEM WITH OWNER APPROVAL AND TURN OVER TO THE OWNER FOR OPERATION.
- K. RELOCATE THE EXISTING BELT PRESS TO THE NEW DEWATERING BUILDING. INCLUDE ALL CONNECTIONS, TESTING AND STARTUP TO PRODUCE A FULLY OPERATIONAL SYSTEM. ACTIVATE THE NEW SYSTEM WITH OWNER APPROVAL AND TURN OVER TO THE OWNER FOR OPERATION.

6. IN ADVANCE OF THE NEED FOR THE TANKS WHICH ARE TO BE RELOCATED FROM THE WRIGHT SMITH WWTP, COORDINATE WITH THE OWNER FOR ACCESS TO THE TANKS AND PERFORM THE REQUIRED RELOCATIONS.
7. PERFORM ALL OTHER WORK CONCURRENTLY OR SEQUENTIALLY AS NECESSARY TO PROVIDE A COMPLETE PROJECT WITHOUT DISRUPTION OF THE PLANT PROCESS AND WITH MINIMAL DISRUPTION OF THE OPERATION ACTIVITIES OF THE PLANT.
8. PHASE ALL CONSTRUCTION TO PRECLUDE ACCEPTANCE OF FLOWS INTO THE NEW COMPONENTS UNTIL THE NEW FACILITIES ARE READY AND APPROVED TO ACCEPT FLOWS.

BYPASS PUMPING NOTES

1. ANY REQUIRED BYPASS PUMPING SHALL BE CAPABLE OF PUMPING 150% OF THE AVERAGE DAILY FLOWS OF THE MAIN TO BE INTERRUPTED AND SHALL HAVE ADDITIONAL EQUALLY SIZED PUMPS INSTALLED. CUT IN FITTINGS WILL BE ALLOWED ON PIPE DIAMETER SMALLER THAN 24" WHERE THE FLOW CAN BE INTERRUPTED TO ALLOW THE CONNECTION INSTALLATION.
2. LINE STOPS AND/OR BYPASS PUMPING AS REQUIRED FOR THE WORK SHALL BE INCLUSIVE OF ALL NECESSARY COMPONENTS, ACCESSORIES, AND ASSOCIATED WORK.
3. THRUST BLOCKING OR JOINT RESTRAINT AS REQUIRED TO PROVIDE A STABLE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION. THRUST BLOCKING MAY BE LEFT IN PLACE PROVIDED IT DOES NOT INTERFERE WITH REQUIRED CONSTRUCTION.
4. THE BYPASS PUMPING SYSTEM PLAN MUST INCLUDE HYDRAULIC CALCULATIONS SIGNED AND SEALED BY AN ALABAMA REGISTERED PROFESSIONAL ENGINEER. CALCULATIONS SHALL ILLUSTRATE CAVITATION WILL NOT BE CAUSED WITHIN THE SYSTEM.

DEMOLITION NOTES

1. DEMOLITION SHOWN ON THE PLANS SHALL BE COMPLY WITH SPECIFICATIONS. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL FOR ANY SALVAGABLE EQUIPMENT SCHEDULED FOR REMOVAL. ALL UNDESIRABLE MATERIALS, PROJECT WASTE, AND DEMOLITION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LAWFUL MANNER AT NO COST TO THE OWNER.
2. THIS DRAWING REFLECTS THE DEMOLITION OF EXISTING COMPONENTS AND IS DERIVED IN PART FROM RECORD DRAWINGS. NO INFORMATION IS INDICATED NOR IMPLIED AS TO THE ACCURACY OF EXISTING SITE ELEMENTS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CURRENT OPERATIONS AT EXISTING FACILITIES TO BE DEMOLISHED. CONTRACTOR MUST COORDINATE OPERATIONS SHIFT FROM EXISTING FACILITIES TO NEW FACILITIES WITH THE ENGINEER.
4. PRIOR TO DEMOLISHING EXISTING PIPING CONTRACTOR SHALL TEST TO DETERMINE IF LINE IS PRESSURIZED. IF PIPE IS FOUND TO BE PRESSURIZED. CONTRACTOR SHALL COORDINATE WITH OWNER TO DEPRESSURIZE LINES PRIOR TO DEMOLITION.
5. REMOVE COMPONENTS AS NOTED ALONG WITH ALL INTERCONNECTING PIPING AND CONDUITS.
6. PRIOR TO DEMOLISHING ANY TANK STRUCTURES, COMPLETELY DEWATER AND CLEAN THE STRUCTURE. ALL DEWATERING AND WASH WATER MUST BE DRAINED OR PUMPED TO THE PLANT SEWER FOR TREATMENT. NO WATER MAY BE DISCHARGED TO SURFACE WATERS OR COME INTO CONTACT WITH THE GROUND. GRIT AND OTHER DEBRIS SHALL NOT BE PUMPED INTO THE PLANT. ALL SOLIDS SHALL BE REMOVED FROM THE FACILITIES TO BE DEMOLISHED AND DISPOSED OF BY THE CONTRACTOR AS INCIDENTAL TO THE WORK.
7. CONTRACTOR SHALL REMOVE ALL WALLS, SLABS, ROOFS, EQUIPMENT, AND METALS AND ANY ASSOCIATED WALKWAYS, STEPS, PLATFORMS, AND CONCRETE PADS FOR ALL STRUCTURES, TANKAGE, AND BUILDINGS INDICATED TO BE DEMOLISHED UNLESS SPECIFIED OTHERWISE.
8. TANK REMOVAL SHALL INCLUDE THE FLOOR SLAB UNLESS OTHERWISE INDICATED. TIMBER PILES SUPPORTING THE OPERATIONS BUILDING SHALL BE REMOVED IN ACCORDANCE WITH NOTE 17. PILES SUPPORTING OTHER DEMOLISHED STRUCTURES SHALL BE REMOVED TO A DEPTH OF EIGHT FEET (8') BELOW EXISTING FINISHED GRADE OR TO THE EXTENT THEY INTERFERE WITH THE PROPOSED CONSTRUCTION, WHICHEVER IS DEEPER.
9. PIPING ASSOCIATED WITH DEMOLISHED STRUCTURES SHALL BE REMOVED OUT TO THE NEXT LIVE SECTION WHERE IT SHALL BE CUT AND CAPPED. PIPING BETWEEN TWO DEMOLISHED STRUCTURES SHALL BE COMPLETELY REMOVED.
10. DEMOLITION OF INDICATED COMPONENTS INCLUDES REMOVAL OF CONCRETE SUPPORT PADS.
11. DEMOLITION OF STRUCTURES AND BUILDINGS INDICATED TO BE DEMOLISHED SHALL INCLUDE ELECTRICAL COMPONENT DEMOLITION. ELECTRICAL WIRES ORIGINATING OR TERMINATING OUTSIDE THE AREA OF DEMOLITION SHALL BE REMOVED TO THE FIRST JUNCTION BOX OR CONNECTION POINT OUTSIDE THE DEMOLITION AREA. ASSOCIATED MCC COMPONENTS SHALL BE LOCKED OUT OF SERVICE. CONDUIT AND DUCT BANK SHALL BE REMOVED TO THE CLOSING OF TEN FEET (10') OUTSIDE THE DEMOLISHED STRUCTURE OR THE FIRST PULL BOX ENCOUNTERED. REMAINING DUCTS SHALL BE CAPPED AND ITS LOCATION INDICATED IN THE RECORD DRAWINGS.
12. CONTRACTOR SHALL PROVIDE SHORING, SHEETING, BRACING, OR OTHER MEANS AND METHODS NECESSARY TO PROTECT EXISTING LIGHT/UTILITY POLES, ELECTRICAL MANHOLES, STRUCTURES, AND OTHER MISCELLANEOUS FACILITIES DURING DEMOLITION ACTIVITIES.
13. IN AREAS WHERE DEMOLITION RESULTS IN A DEPRESSION BELOW ADJACENT GRADES, THE AREA SHALL BE BACKFILLED WITH CLEAN SELECT FILL, COMPACTED IN LIFTS, RE-GRADED TO PREVENT STORMWATER PONDING AND TO MATCH SURROUNDING CONDITIONS AND GRASSED.
14. UNLESS SPECIFICALLY INCLUDED WITHIN A BID ITEM, ALL DEMOLITION IS CONSIDERED INCIDENTAL TO THE WORK.
15. PIPES TO BE ABANDONED IN PLACE SHALL BE SECURED WITH A PUSH-ON RESTRAIN JOINT CAP UNLESS OTHERWISE NOTED.
16. ALL PAVEMENT CUTS SHALL BE SAWCUT.
17. BEFORE PRELOADING THE SITE, EXISTING TIMBER PILES SHALL BE REMOVED DOWN TO AN ELEVATION OF 5.0 WHERE BENEATH THE PRELOAD AREA AND WHERE BENEATH ANY UTILITY MAINS. WHERE BENEATH THE PUMP STATION, THEY SHALL BE REMOVED TO ELEVATION -10 OR FULLY EXTRACTED AT THE CONTRACTORS OPTION. THE OVEREXCAVATION REQUIRED TO EXPOSE THE TIMBER PILES AND REMOVE THE TOP WILL BE BACKFILLED WITH STRUCTURAL FILL MATERIAL FOLLOWING SPEC SECTION 31 23 23.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA
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Jacobs

GENERAL
CIVIL LEGEND
SHEET 2

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	MAY 2021
PROJ	D322610
DWG	01-G-0005
SHEET	007 of 270

DATE	MAY 202
PROJ	D322610
DWG	01-G-0005
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1

- 2

A

-

WHERE L IS THE MEMBER SPAN LENGTH

- B.

WHERE L IS THE MEMBER SPAN LENGTH

- C

VALUES GIVEN IN TABLES BELOW ARE STRENGTH-LEVEL LOADS

WIND LOADS ON ROOF TOP EQUIPMENT (STRENGTH-LEVEL)
HORIZONTAL WIND LOAD = +/- 140 PSF
VERTICAL WIND LOAD = -111 UPLIFT



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1. FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS; PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
3. VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.
4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
5. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
6. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS. COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

1. SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
2. UNLESS OTHERWISE NOTED SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED.
3. SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. SPECIAL INSPECTION, TESTING AND OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH IBG SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS. REFER TO DRAWINGS 01-G-0008 TO 01-G-0011.

1. SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL SCHEDULE BOTH INSPECTIONS.
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GENERAL

STRUCTURAL NOTES 1

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

MOBILE, ALABAMA

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1. COMPANY	2. TYPE OF SERVICE	3. OTHER INFORMATION
<p>CORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF A CODE</p>		

CONFIRMED DOCUMENTS

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STATEMENT OF SPECIAL INSPECTIONS

GENERAL NOTES

1. THE STATEMENT OF SPECIAL INSPECTIONS PROVIDE PROJECT COMPLIANCE W/ THE PROVISIONS OF THE 2012 INTERNATIONAL BLDG CODE (IBC) CHAPTER 17 FOR SPECIAL INSPECTION, STRUCTURAL OBSERVATION, AND TESTING FOR WIND AND SEISMIC RESISTANCE AS APPLICABLE. EXCEPT WHERE OTHERWISE NOTED, THIS INSPECTION IS OWNER FURNISHED.

2. STANDARD SPECIAL INSPECTION REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 1.

3. STANDARD SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL COMPONENTS, REGARDLESS OF WIND OR SEISMIC DESIGN CATEGORIES, ARE CONTAINED IN TABLE 2. STANDARD TESTING REQUIREMENTS FOR STRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 3.

4. PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES C, D, E, OR F ARE CONTAINED IN TABLE 4. ADDITIONAL TESTING REQUIREMENTS FOR STRUCTURAL RESISTANCE ARE CONTAINED IN TABLE 6.

5. PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES SUBJECT TO BASIC WIND SPEEDS [(V asd)] IN EXCESS OF 110 MPH ARE CONTAINED IN TABLE 5.

6. FOR ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 01 45 33, SPECIAL INSPECTION, OBSERVATION, AND TESTING. THESE INCLUDE:

A. CONTRACTOR'S REQUIREMENTS TO PROVIDE ACCESS TO THE WORK FOR REQD INSPECTIONS, AND TO PROVIDE NOTICE OF REQD INSPECTIONS AND STRUCTURAL OBSERVATION.

B. CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE STATEMENT OF SPECIAL INSPECTIONS FOR WIND OR SEISMIC RESISTANCE.

C. DEFINITIONS AND TERMINOLOGY USED IN THIS STATEMENT OF SPECIAL INSPECTIONS.

SPECIAL INSPECTION

1. SPECIAL INSPECTION WILL BE IN ACCORDANCE W/ IBC SECTIONS AND 1705 TOGETHER W/ LOCAL AND STATE AMENDMENTS. REFER TO THE FOLLOWING TABLES FOR PROJECT SPECIFIC INSPECTION TYPES AND FREQUENCIES.

2. SPECIAL INSPECTIONS WILL BE PROVIDED BY A CERTIFIED OR QUALIFIED INSPECTOR AND ASSOCIATED TESTING WILL BE PERFORMED BY AN APPROVED ACREDITED INDEPENDENT AGENCY. THE OWNER WILL SECURE AND PAY FOR THE SERVICES OF THE AGENCY TO PERFORM ALL SPECIAL INSPECTION AND ASSOCIATED TESTS. INSPECTORS FOR EACH SYSTEM AND MATERIAL WILL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BLDG OFFICIAL. WHERE A STRUCTURE, SYSTEM OR COMPONENT REQUIRING SPECIAL INSPECTION IS DESIGNED BY A DELEGATED ENGINEER, THAT REGISTERED ENGINEER SHALL ACT AS THE SPECIAL INSPECTOR OR SHALL OTHERWISE PROVIDE FOR ALL SPECIAL INSPECTION SERVICES AS INDICATED IN THE CONSTRUCTION DOCUMENTS AND REQD BY THE IBC. COST FOR DELEGATED DESIGN SPECIAL INSPECTIONS SERVICES SHALL BE DEEMED TO HAVE BEEN INCLUDED IN THE DELEGATED DESIGN CONTRACTOR'S COST FOR SERVICES.

3. THE SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE W/ THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

4. SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS WILL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BLDG OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. INSPECTIONS FOR WHICH REPORTING WILL BE REQD ARE NOTED IN THE FOLLOWING TABLES.

5. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQD SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES WILL BE SUBMITTED.

GEOTECHNICAL OBSERVATION

1. FOUNDATION BEARING SURFACES SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. ADDITIONAL SPECIAL INSPECTION REQUIREMENTS ARE LISTED IN TABLE 1.

2. GEOTECHNICAL TESTING REQUIREMENTS ARE LISTED IN TABLE 3.

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION WILL BE IN ACCORDANCE W/ IBC SECTION 1704.5 TOGETHER W/ LOCAL AND STATE AMENDMENTS.

2. ONSITE STRUCTURAL OBSERVATION WILL BE PERFORMED FOR EACH IDENTIFIED SEISMIC FORCE- OR WIND FORCE-RESISTING SYSTEM, INCLUDING FOUNDATIONS AND CONNECTIONS. REFER TO THE DRAWINGS FOR THE BASIC SEISMIC AND WIND FORCE-RESISTING SYSTEMS FOR THE STRUCTURES INCLUDED IN THE WORK.

3. STRUCTURAL OBSERVATION WILL BE PERFORMED BY A REGISTERED PROJECT DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQD SPECIAL INSPECTIONS OR INSPECTIONS BY THE BLDG OFFICIAL.

4. STRUCTURAL OBSERVATION REPORTS, NOTING ANY DEFICIENCIES IN OBSERVED CONSTRUCTION, WILL BE DELIVERED TO THE CONTRACTOR, BLDG OFFICIAL, AND OWNER FOLLOWING EACH OBSERVATION. THE CONTRACTOR WILL BE NOTIFIED ONSITE OR BY PHONE OR E-MAIL WITHIN 24 HOURS UPON FINDING DEFICIENCIES.

5. AT THE CONCLUSION OF CONSTRUCTION, A WRITTEN STATEMENT WILL BE PROVIDED TO VERIFY THAT THE STRUCTURAL OBSERVATION SITE VISITS WERE MADE AND WHETHER THERE REMAIN ANY STRUCTURAL DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.

6. STRUCTURAL OBSERVATION WILL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION, INCLUDING THE ELEMENTS DESCRIBED IN THE STRUCTURAL OBSERVATION TABLES.

SPECIAL INSPECTIONS FOR WIND RESISTANCE

1. SPECIAL INSPECTIONS REQUIREMENTS FOR WIND RESISTANCE IN ACCORDANCE W/ IBC SECTION 1705.10.

2. SPECIAL INSPECTIONS REQUIREMENTS FOR WIND RESISTANCE WILL BE IN ACCORDANCE W/ IBC SECTION 1705.10 TOGETHER W/ LOCAL AND STATE AMENDMENTS.

3. SPECIAL INSPECTIONS REQUIREMENTS SHALL APPLY TO THE FOLLOWING:

A. WIND FORCE-RESISTING SYSTEMS IN STRUCTURES IN WIND EXPOSURE CATEGORY B, V asd IS 120 MILES PER HOUR OR GREATER.

B. WIND FORCE-RESISTING SYSTEMS IN STRUCTURES IN WIND EXPOSURE CATEGORIES C OR D, WHERE V asd IS 110 MILES PER HOUR OR GREATER.

REFER TO DRAWINGS FOR BASIC WIND SPEED AND WIND EXPOSURE CATEGORY.

4. WIND FORCE-RESISTING SYSTEMS TO RECEIVE SPECIAL INSPECTION FOR WIND RESISTANCE SHALL INCLUDE THE COMPONENTS LISTED IN TABLE 5.

5. MAIN SYSTEMS REQD TO BE COVERED UNDER PROJECT SPECIAL INSPECTION REQUIREMENTS INCLUDE THE FOLLOWING TOGETHER W/ THEIR CONNECTIONS. REFER TO SECTION 01 45 33, SPECIAL INSPECTION, OBSERVATION AND TESTING.

A. FACILITY 20 - DEWATERING AND CONTROL BLDG

B. FACILITY 50 CHLORINE AND SO2 BLDG

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

1. SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE IN ACCORDANCE W/ IBC SECTION 1705.11 AND 1705.12.

2. SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE WILL BE IN ACCORDANCE W/ IBC SECTION 1705.11 AND 1705.12 TOGETHER W/ LOCAL AND STATE AMENDMENTS. REFER TO DRAWINGS FOR BASIC SEISMIC-FORCE-RESISTING SYSTEMS FOR EACH STRUCTURE AND DESIGNATED SEISMIC DESIGN CATEGORY.

3. SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE SHALL APPLY TO THE SYSTEMS AND COMPONENTS LISTED IN TABLE 4.

4. MAIN SYSTEMS REQD TO BE COVERED UNDER PROJECT SPECIAL INSPECTION REQUIREMENTS INCLUDE THE FOLLOWING TOGETHER W/ THEIR CONNECTIONS. REFER TO SECTION 01 45 33, SPECIAL INSPECTION, OBSERVATION AND TESTING.

A. FACILITY 50 - CHLORINE AND SO 2 BUILDING; INTERMEDIATE PRECAST SHEARWALLS.

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SPECIAL INSPECTION NOTES

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STRUCTURAL OBSERVATION TABLE				
	SYSTEM FOR FACILITIES (20) DEWATERING BUILDING AND (50) CHLORINE AND SO ₂ BUILDING	STAGE	ITEMS	COMMENTS
1.	FOUNDATION SLAB OF STRUCTURE	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, CONCRETE AND MASONRY WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
2.	CONCRETE WALLS OF STRUCTURE	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
3.	WALL TO FOUNDATION CONNECTIONS PRIOR TO FORM CLOSURE	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED		NOTE 1
4.	ELEVATED CONCRETE SLABS AND BEAMS PRIOR TO CONCRETE PLACEMENT	PRIOR TO FIRST CONCRETE PLACEMENT OF FIRST SECTION WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
5.	CONCRETE STRUCTURES	PRIOR TO FIRST CONCRETE PLACEMENT ON FIRST LIQUID HOLDING STRUCTURE WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1
6.	CONCRETE STRUCTURES	AT COMPLETION OF PLACEMENT OF ALL CONCRETE COMPONENTS FOR THE FIRST LIQUID HOLDING STRUCTURE	CONCRETE TOLERANCES, FINISHING, LIQUID TIGHTNESS, AND SIMILAR ITEMS	NOTE 1
7.	MASONRY WALL, BEAM, PIER, AND COLUMN REINFORCING STEEL	DURING THE INITIAL CONSTRUCTION OF THE FIRST MASONRY STRUCTURE WHEN ITEMS CAN STILL BE REVISED	REINFORCING STEEL, GROUTED CELLS, EMBEDS, COURSE PREPARATION AND SIMILAR ITEMS	NOTE 1
8.	SYSTEM CONNECTION EMBEDS	PRIOR TO GROUT OR CONCRETE PLACEMENT		NOTE 1
9.	CONCRETE WALL TO FLOOR AND ROOF CONNECTIONS	PRIOR TO FORM CLOSURE [OR CLADDING INSTALLATION] OR OTHER COVER		NOTE 1
10.	AT ADDITIONAL TIMES DURING CONSTRUCTION AT WHICH THE ENGINEER OF RECORD OR OWNER DEEM THE NEED FOR ADDITIONAL STRUCTURAL OBSERVATION			NOTE 1
11.	AT SUBSTANTIAL COMPLETION OF PRIMARY STRUCTURAL SYSTEM FOR DETERMINATION OF FINAL CONDITION OF STRUCTURE			NOTE 1
NOTES:				
1. STRUCTURAL OBSERVER TO DISCUSS ITEMS AND SITE SPECIFIC CONDITIONS WITH SPECIAL INSPECTOR AND FIELD INSPECTION STAFF DURING OBSERVATION.				

TABLE 1 REQUIRED NON-STRUCTURAL SPECIAL INSPECTION REFER TO SPECIFICATION SECTION 01 45 33						
SYSTEM OR MATERIAL	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
GEOTECHNICAL						
1. SOILS:						
A. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1705.6, 1803.5.8, 1803.5.9, 1804.5	SECTION 31 23 13, SUBGRADE PREPARATION	X		PROFESSIONAL OBSERVATION BY GEOTECHNICAL ENGINEER	
B. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	1705.6	SECTION 31 23 16, EXCAVATION	X		PROFESSIONAL OBSERVATION BY GEOTECHNICAL ENGINEER	
C. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	1705.6	SECTION 31 23 23, FILL AND BACKFILL	X			SEE TABLE 3 FOR GRADATION TEST REQUIREMENTS
D.VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	1705.6, 1803.5.8	SECTION 31 23 23, FILL AND BACKFILL		X		SEE TABLE 3 FOR DENSITY TEST REQUIREMENTS
E. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	1705.6	SECTION 31 23 13, SUBGRADE PREPARATION	X		PROFESSIONAL OBSERVATION BY GEOTECHNICAL ENGINEER	SEE TABLE 3 FOR DENSITY TEST REQUIREMENTS

TABLE 1 - CONTINUED REQUIRED NON-STRUCTURAL SPECIAL INSPECTION REFER TO SPECIFICATION SECTION 01 45 33						
SYSTEM OR MATERIAL	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
ARCHITECTURAL						
1. WATER-RESISTIVE BARRIER COATING WHEN APPLIED OVER SHEATHING SUBSTRATE	1705.15.1	ASTM E2570	X			
2. FIRE-RESISTANT PENETRATIONS AND JOINTS IN BUILDING						
A. PENETRATION FIRESTOPS	1705.16.1	ASTM E2174	X			
B. FIRE-RESISTANT JOINT SYSTEMS	1705.16.2	ASTM E2393	X			
BUILDING MECHANICAL						
1. INSTALLATION OF SMOKE CONTROL SYSTEMS: A. LEAKAGE TESTING AND RECORDING OF DEVICE LOCATIONS PRIOR TO CONCEALMENT	1705.17		X			
B. PRIOR TO OCCUPANCY AND AFTER SUFFICIENT COMPLETION, PRESSURE DIFFERENCE TESTING, FLOW MEASUREMENTS, AND DETECTION AND CONTROL VERIFICATION	1705.17		X			
GENERAL						
1. CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS AND SYSTEMS PRESCRIBED BY CODE	1705.1.1 ITEM 1		X			
2. UNUSUAL DESIGN APPLICATION OF CODE MATERIALS	1705.1.1 ITEM 2			X		
3. INSTALLATION OF MATERIALS THAT REQUIRE ADDITIONAL MANUFACTURER'S INSTRUCTIONS BEYOND CODE REQUIREMENTS	1703.4.2, 1705.1.1 ITEM 3	ICC-ES EVALUATION REPORTS		X		
STRUCTURAL						
SEE TABLE 2.						
NOTES: 1. PERIODIC INSPECTION IS DEFINED AS INSPECTION BY THE SPECIAL INSPECTOR OF ALL MATERIALS AND SYSTEMS, IN SOME CASES PERFORMED DURING THEIR PLACEMENT AND IN ALL CASES PERFORMED UPON COMPLETION OF THEIR PLACEMENT. THE COMPLETION INSPECTION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING AND COVERING INSPECTED WORK.						

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

APVD

BY

APVD

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REVISION

DR

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TABLE 2

REQUIRED STRUCTURAL SPECIAL INSPECTION

REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
CONCRETE						
1. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT	1705.3, 1903.1	ACI 318: 3.5, 7.1-7.7	X			SEE TABLE 6 FOR REINFORCING STEEL TESTING
2. INSPECTION OF REINFORCING STEEL WELDING	1705.3, 1903.1	AWS D1.4 ACI 318: 3.5.2			SEE STEEL AND CONSTRUCTION OTHER THAN STEEL (IN THIS TABLE) FOR WELDING INSPECTION REQUIREMENTS	
3. INSPECTION OF ANCHORS CAST IN CONCRETE	1705.3, 1908.5, 1909.1	ACI 318: 8.1.3	X			
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	1705.3, 1909.1	ACI 318: 3.8.6, 8.1.3, ICC-ES EVALUATION REPORTS	X		PROVIDE CONTINUOUS SPECIAL INSPECTION WHERE REQUIRED BY ICC-ES REPORT	
5. VERIFYING USE OF REQUIRED DESIGN MIX	1705.3, 1904.2	ACI 318: Ch. 4, 5.2-5.4	X			
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	1705.3	ASTM C 172, ASTM C 31, ACI 318: 5.6, 5.8		X		SEE TABLE 3 FOR CONCRETE TEST REQUIREMENTS
7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	1705.3,	ACI 318: 5.9, 5.10		X		
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	1705.3	ACI 318: 5.11-5.13	X			
9. ERECTION OF PRECAST CONCRETE MEMBERS	1705.3	ACI 318: Ch. 16	X			
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORING AND FORMS FROM BEAMS AND STRUCTURAL SLABS	1705.3	ACI 318: 6.2	X			
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1705.3	ACI 318: 6.1.1	X			
12. VERIFY PROPER INSTALLATION OF MECHANICAL REINFORCING SPLICES AND CONNECTIONS	1705.1.1 ITEM 3, 1705.3	ICC-ES EVALUATION REPORTS	X			
MASONRY LEVEL B						
1. FOR SELF-CONSOLIDATING GROUT: VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE.	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 1.5B, 1.b.3	X			
2. VERIFICATION OF f _m PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 1.4B	X			
3. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 1.5	X			

TABLE 2 - CONTINUED

REQUIRED STRUCTURAL SPECIAL INSPECTION

REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
A. PROPORTIONS OF SITE-PREPARED MORTAR	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 2.1, 2.6A	X			
B. CONSTRUCTION OF MORTAR JOINTS	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 3.3B	X			
C. LOCATION OF REINFORCEMENT AND CONNECTORS	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 3.4, 3.6A	X			
5. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:						
A. GROUT SPACE	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 3.2D, 3.2F	X			
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS	1705.4	ACI 530: Sec. 1.16, 1.19.2 ACI 530.1: Art. 2.4, 3.4	X			
C. PLACEMENT OF REINFORCEMENT	1705.4	ACI 530: Sec. 1.16, 1.19.2 ACI 530.1: Art. 3.2E, 3.4, 3.6A	X			
D. PROPORTIONS OF SITE-PREPARED GROUT	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 2.6B, 2.4G.1.b	X			
E. CONSTRUCTION OF MORTAR JOINTS	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 3.3B	X			
6. VERIFY DURING CONSTRUCTION:						
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 3.3F	X			
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	1705.4	ACI 530: Sec. 1.16.4.3, 1.17.1, 1.19.2	X			
C. WELDING OF REINFORCEMENT	1705.4	ACI 530: Sec. 1.19.2, 2.1.7.7.2, 3.3.3.4(c), 8.3.3.4(b)		X	SEE STRUCTURAL STEEL (IN THIS TABLE) FOR WELDING INSPECTION REQUIREMENTS	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40 DEGREES F) OR HOT WEATHER (TEMP. ABOVE 90 DEGREES F)	1705.4, 2104.3, 2104.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 1.8C, 1.8D	X			
E. PLACEMENT OF GROUT	1705.4	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 3.5, 3.6C		X		
7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	1705.4, 2105.2.2, 2105.3	ACI 530: Sec. 1.19.2 ACI 530.1: Art. 1.4B.2	X			SEE TABLE 3 FOR UNIT STRENGTH TESTS FOR MASONRY
STEEL						
1. MATERIAL VERIFICATION OF STEEL:						
A. IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	1705.2.1, 2203.1	Applicable ASTM Material Standards	X			
B. MANUFACTURER'S CERTIFIED TEST REPORTS	1705.2.1	AISC 360: Sec. N3.2, N5.2	X			

TABLE 2 - CONTINUED

REQUIRED STRUCTURAL SPECIAL INSPECTION

REFER TO SPECIFICATION SECTION 01 45 33

SYSTEM	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
2. PRIOR TO BOLTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:						
A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2.1	AISC 360: Sec. N3.2, N5.2, N5.6 RCSC: Sec. 2.1, 9.1		X		
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	1705.2.1	AISC 360: Sec. N3.2, N5.2, N5.6 Applicable ASTM Material Standards	X			
C. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 4	X			
D. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 3.2, 4	X			
E. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 7		X		
F. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	1705.2.1	AISC 360: Sec. N5.6 RCSC: Sec. 2.2	X			
3. VERIFY DURING BOLTING:						
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.2.1	AISC 360: Sec. N5.6	X			
B. JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	1705.2.1	AISC 360: Sec. N5.6	X			
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	1705.2.1	AISC 360: Sec. N5.6	X			
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	1705.2.1	AISC 360: Sec. N5.6	X			SEE TABLE 3 FOR TESTING OF HIGH-STRENGTH BOLTING
4. PRIOR TO WELDING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:						
A. APPROVED WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE TO WELDERS AND WELDING INSPECTOR(S)	1705.2.1	AWS D1.1	X			
B. WELDER QUALIFICATIONS AND JOINT FIT-UP	1705.2	AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23

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DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

GENERAL

STRUCTURAL

SPECIAL INSPECTION NOTES

SHEET 2

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 01-G-0009

SHEET 011 of 270

CONFORMED DOCUMENTS

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PLOT TIME: 6:54:31 AM

A	TABLE 2 - CONTINUED						
	REQUIRED STRUCTURAL SPECIAL INSPECTION						
	REFER TO SPECIFICATION SECTION 01 45 33						
	SYSTEM	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
	5. VERIFY DURING WELDING:						
	A. CONTROL AND HANDLING OF WELDING CONSUMABLES	1705.2.1	AWS D1.1	X			
	B. ENVIRONMENTAL CONDITIONS	1705.2.1	AWS D1.1	X			
	C. COMPLIANCE WITH WPS REQUIREMENTS	1705.2.1	AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23 AND TABLE 3 FOR STRUCTURAL STEEL TEST REQUIREMENT
	6. AFTER WELDING, VERIFY THE FOLLOWING:						
	A. SIZE, LENGTH AND LOCATION OF WELDS	1705.2.1	AWS D1.1	X		NOTE 2	
B	B. WELDS MEET VISUAL ACCEPTANCE CRITERIA	1705.2.1	AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
	C. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	1705.2.1	AWS D1.1	X			
	D. NONDESTRUCTIVE WELDING INSPECTION	1705.2	AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
	7. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:						
	A. DETAILS SUCH AS BRACING AND STIFFENING	1705.2.1		X			
	B. MEMBER LOCATIONS	1705.2.1		X			
	C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	1705.2.1		X			
	8. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT:						
	A. PLACEMENT AND INSTALLATION OF STEEL DECK	1705.2.1	AISC 360: Table N6.1		X		
	B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	1705.2.1	AWS D1.1	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
C	CONSTRUCTION OTHER THAN STEEL						
	1. INSPECTION OF WELDING, REINFORCING STEEL:						
	A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	1705.2.2, 1903.1	AWS D1.4 ACI 318: 3.5.2	X		NOTE 2	CONTRACTOR TO DETERMINE THE CARBON EQUIVALENT TO DEVELOP WPS REQUIREMENTS
	B. SHEAR REINFORCEMENT	1705.2.2, 1903.1	AWS D1.4 ACI 318: 3.5.2		X		SEE TABLE 3 FOR TESTING OF WELDING REINFORCING STEEL
	E. OTHER REINFORCING STEEL	1705.2.2, 1903.1	AWS D1.4 ACI 318: 3.5.2	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23
D							

TABLE 2 - CONTINUED						
REQUIRED STRUCTURAL SPECIAL INSPECTION						
REFER TO SPECIFICATION SECTION 01 45 33						
SYSTEM	2012 IBC CODE REFERENCE	REFERENCED STANDARD	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS	TESTING FOR SPECIAL INSPECTION
ALUMINUM						
1. MATERIAL VERIFICATION OF ALUMINUM:						
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1705.1.1 ITEM 2		X			
B. MANUFACTURERS' CERTIFIED MILL TEST REPORTS	1705.1.1 ITEM 2		X			
2. INSPECTION OF WELDING:						
A. NONDESTRUCTIVE INSPECTION	1705.1.1 ITEM 2	AWS D1.2	X		NOTE 2	ALSO SEE REQUIREMENTS OF SPEC. SECTION 05 05 23

NOTES:

1. PERIODIC INSPECTION IS DEFINED AS INSPECTION BY THE SPECIAL INSPECTOR OF ALL MATERIALS AND SYSTEMS, IN SOME CASES PERFORMED DURING THEIR PLACEMENT AND IN ALL CASES PERFORMED UPON COMPLETION OF THEIR PLACEMENT. THE COMPLETION INSPECTION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING AND COVERING INSPECTED WORK.

2. VISUAL INSPECTION IS THE RESPONSIBILITY OF THE CONTRACTOR'S WELDING INSPECTOR(S) AND IS NOT CONSIDERED SPECIAL INSPECTION. CONTRACTOR MUST PROVIDE A QUALIFIED WELDING INSPECTOR TO OVERSEE CONTRACTOR'S WELDING OPERATIONS, AS REQUIRED BY AWS D1.1, SECTIONS 6.1.2 & 6.6, SPEC. SECTION 05 05 23 AND REFERENCED WELDING CODES.

TABLE 3						
TESTING FOR REQUIRED SPECIAL INSPECTION						
REFER TO SPECIFICATION SECTION 01 45 33						
MATERIAL	TYPE OR SCOPE	STANDARD	2012 IBC CODE REFERENCE	FREQUENCY	BY WHOM	COMMENTS
GEOTECHNICAL						
COMPACTED FILL	GRADATION	ASTM C117, C136	1705.6	SECTION 31 23 23, FILL AND BACKFILL	OWNER'S TESTING AGENCY	
COMPACTED FILL	COMPACTION	ASTM D698	1705.6	SECTION 31 23 23, FILL AND BACKFILL	OWNER'S TESTING AGENCY	
COMPACTED FILL	DENSITY	ASTM D1556 OR D6938	1705.6	SECTION 31 23 23, FILL AND BACKFILL	OWNER'S TESTING AGENCY	
PREPARED SUBGRADE	DENSITY	ASTM D698	1705.6	SECTION 31 23 13, SUBGRADE PREPARATION	OWNER'S TESTING AGENCY	
CONCRETE						
CONCRETE	STRENGTH	ASTM C39	1705.3	ONCE EACH DAY, BUT NOT LESS THAN ONE SAMPLE FOR EACH 150 CUBIC YARDS OR 5,000 SFT OF WALLS OR SLABS PLACED	OWNER'S TESTING AGENCY	
CONCRETE	SLUMP	ASTM C143, C94	1705.3	ONE SAMPLE PER STRENGTH TEST	OWNER'S TESTING AGENCY	
CONCRETE	AIR CONTENT	ASTM C231, C94	1705.3	ONE SAMPLE PER STRENGTH TEST	OWNER'S TESTING AGENCY	
CONCRETE	TEMPERATURE	ASTM C1064	1705.3	ONE SAMPLE PER STRENGTH TEST	OWNER'S TESTING AGENCY	
MASONRY						
CONCRETE MASONRY	UNIT STRENGTH	ASTM C140	2105.2.2.1.2	ONE SAMPLE SET (6 FULL SIZE UNITS) PER 5,000 SQ. FT. DURING CONSTRUCTION	OWNER'S TESTING AGENCY	
MASONRY	COMPRESSIVE STRENGTH OF GROUT	ASTM C1019	2105.2.2.1	THREE SAMPLES PRIOR TO CONSTRUCTION	OWNER'S TESTING AGENCY	

TABLE 3 - CONTINUED						
TESTING FOR REQUIRED SPECIAL INSPECTION						
REFER TO SPECIFICATION SECTION 01 45 33						
MATERIAL	TYPE OR SCOPE	STANDARD	2012 IBC CODE REFERENCE	FREQUENCY	BY WHOM	COMMENTS
STEEL						
STEEL STUD WELDING	PRE-PRODUCTION TESTING	AWS D1.1 Sec. 7.7.1	1705.2	PRIOR TO CONSTRUCTION FOR EACH SIZE AND TYPE AND FIRST 2 STUDS EACH SHIFT	CONTRACTOR'S WELDING INSPECTOR	
HIGH-STRENGTH BOLTING	PRE-INSTALLATION VERIFICATION TESTING OF PRETENSIONED BOLTS	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, Sec. 7	1705.2	3 FASTENER ASSEMBLIES OF EACH COMBINATION OF DIAMETER, LENGTH, GRADE AND LOT	OWNER'S TESTING AGENCY	
STRUCTURAL STEEL	ULTRASONIC OR RADIOGRAPHIC NONDESTRUCTIVE TESTING	AWS D1.1	1705.2	SECTION 05 05 23, WELDING	OWNER'S TESTING AGENCY	PERFORM RT OR UT ON GROOVE WELDS
REINFORCING STEEL	MAGNETIC PARTICLE NONDESTRUCTIVE TESTING	AWS D1.4	1705.3, 1903.1	SECTION 05 05 23, WELDING	OWNER'S TESTING AGENCY	PERFORM ON FILLET WELDS AND PARTIAL JOINT PENETRATION WELDS

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DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

GENERAL

STRUCTURAL

SPECIAL INSPECTION NOTES

SHEET 3

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE MAY 2021

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DWG 01-G-0010

SHEET 012 of 270

APVD BY

APVD

CHK

DR

NO. DATE

REVISION

P KARABAN

M CHRZANOWSKI

M CHRZANOWSKI

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1

2

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4

5

6

A

B

C

D

TABLE 5

REQUIRED SPECIAL INSPECTION FOR WIND RESISTANCE FOR STRUCTURAL SYSTEMS

REFER TO SPECIFICATION SECTION 01 45 33

V_{ASD} for this Project is 131 mph, except for Facility (50) Chlorine and SO₂ Building which is 135 mph.

Wind Exposure is Category D.

SYSTEM	2012 IBC CODE REFERENCE	STANDARD OR CODE	PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1)	CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION	COMMENTS
ARCHITECTURAL					
ROOF CLADDING SYSTEM AND COMPONENTS	1705.10.3		X		NOTE 2
WALL CLADDING SYSTEM AND COMPONENTS	1705.10.3		X		NOTE 2

NOTES:

1. PERIODIC INSPECTION IS DEFINED AS INSPECTION BY THE SPECIAL INSPECTOR OF ALL MATERIALS AND SYSTEMS, IN SOME CASES PERFORMED DURING THEIR PLACEMENT AND IN ALL CASES PERFORMED UPON COMPLETION OF THEIR PLACEMENT. THE COMPLETION INSPECTION SHALL BE PERFORMED SO THAT WORK CAN BE CORRECTED PRIOR TO OTHER RELATED WORK PROCEEDING AND COVERING THE INSPECTED WORK.

2. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE REQUIRED FOR BUILDINGS AND STRUCTURES CONSTRUCTED IN WIND EXPOSURE CATEGORY B, WHERE THE 3-SECOND-GUST NOMINAL DESIGN WIND SPEED IS 120 MPH OR GREATER, OR IN WIND EXPOSURE CATEGORIES C OR D, WHERE V_{ASD} IS 110 MPH OR GREATER.

TABLE 6

TESTING FOR SEISMIC RESISTANCE

REFER TO SPECIFICATION SECTION 01 45 33

The Seismic Design Category (SDC) for this Project is B except for Facility (50) Chlorine and SO₂ Building which is SDC C.

MATERIAL	TYPE OR SCOPE	STANDARD	2012 IBC CODE REFERENCE	FREQUENCY	BY WHOM	COMMENTS
REINFORCING STEEL						
REINFORCING STEEL MATERIAL IF ASTM A615 REINFORCING STEEL IS TO BE WELDED	CHEMICAL TEST TO DETERMINE CARBON EQUIVALENT	AWS D1.4; ACI 318: Sec. 3.5.2	1705.12.1	EACH APPLICATION	CONTRACTOR'S WELDING INSPECTOR	
STEEL						
TEST IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341	NONDESTRUCTIVE TESTING	AISC 341 AWS D1.8	1705.12.2	CONTINUOUS	OWNER'S SPECIAL INSPECTOR	
RADIOGRAPHIC (RT) OR ULTRASONIC (UT) NONDESTRUCTIVE TESTING OF GROOVE WELDS	NONDESTRUCTIVE TESTING	AISC 341 AWS D1.8	1705.12.2	CONTINUOUS	OWNER'S SPECIAL INSPECTOR	USE UT WHERE RT CANNOT BE PERFORMED. SEE SECTION 05 05 00 METAL FABRICATIONS, SECTION 05 05 23, WELDING
MAGNETIC PARTICLE (MT) OR LIQUID PENETRANT (PT) NONDESTRUCTIVE TESTING	NONDESTRUCTIVE TESTING	AISC 341 AWS D1.8	1705.12.2	CONTINUOUS	OWNER'S SPECIAL INSPECTOR	FILLET WELDS AND PARTIAL JOINT PENETRATION GROOVE WELDS.SEE SECTION 05 50 00 METAL FABRICATIONS, SECTION 05 05 23, WELDING
BASE METAL THICKER THAN 1.5 INCHES WHERE SUBJECT TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS	ULTRASONIC TESTING	AWS D1.1; ASTM A435; ASTM A898 (LEVEL 1)	1705.12.2	CONTINUOUS	CONTRACTOR'S WELDING INSPECTOR	PERFORM PRIOR TO WELDING. SEE SECTION 05 50 00 METAL FABRICATIONS, SECTION 05 05 23, WELDING

NOTES:

1. TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE ARE REQUIRED FOR SEISMIC-FORCE-RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, UNLESS OTHERWISE NOTED.

2. BASED ON ACTUAL TEST ON SHAKE TABLE, BY THREE-DIMENSIONAL SHOCK TESTS, BY AN ANALYTICAL METHOD USING DYNAMIC CHARACTERISTICS AND FORCES, BY THE USE OF EXPERIENCE DATA, OR BY MORE RIGOROUS ANALYSIS PROVIDING FOR EQUIVALENT SAFETY.

Jacobs

GENERAL

STRUCTURAL

SPECIAL INSPECTION NOTES

SHEET 4

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PENSACOLA, FL 32502

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DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

NTS

VERIFY SCALE

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DATE MAY 2021

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DWG 01-G-0011

SHEET 013 of 270

DR

CHK

REVISION

APVD

BY

APVD

M CHRZANOWSKI

P KARABAN

R FORREST

DGN

NO.

DATE

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

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DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

GENERAL
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SPECIAL INSPECTION NOTES
SHEET 4

CONFIRMED DOCUMENTS

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PLOT DATE: 5/27/2021

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GENERAL SHEET NOTE

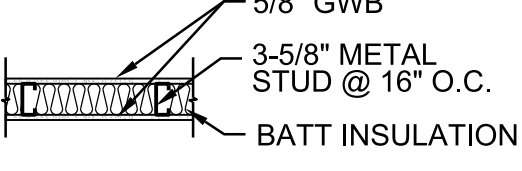
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GOVERNING CODES

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL FIRE CODE
2014 NATIONAL ELECTRIC CODE, NFPA 70
INTERNATIONAL ENERGY CONSERVATION CODE (LATEST VERSION ADOPTED BY THE STATE OF AL)

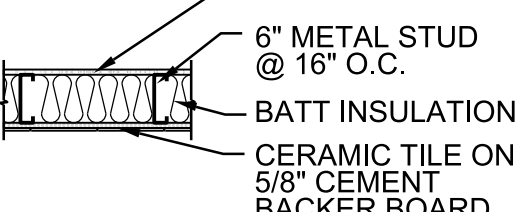
WALL TYPES

A



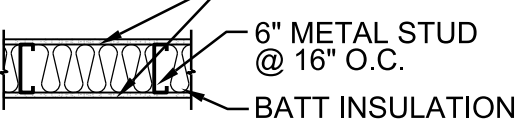
5/8" GWB
3-5/8" METAL STUD @ 16" O.C.
BATT INSULATION

B



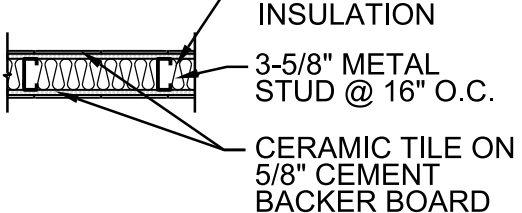
5/8" GWB
6" METAL STUD @ 16" O.C.
BATT INSULATION
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD

B1



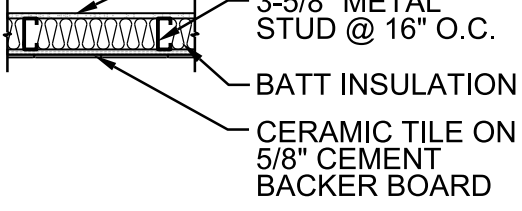
5/8" GWB
6" METAL STUD @ 16" O.C.
BATT INSULATION

C



BATT INSULATION
3-5/8" METAL STUD @ 16" O.C.
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD

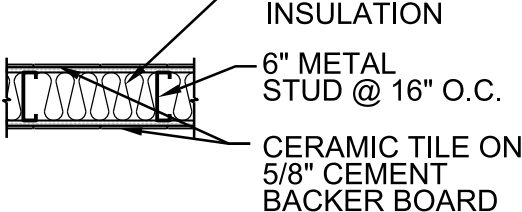
D



5/8" GWB
3-5/8" METAL STUD @ 16" O.C.
BATT INSULATION
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD

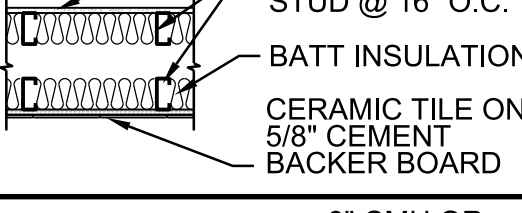
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E



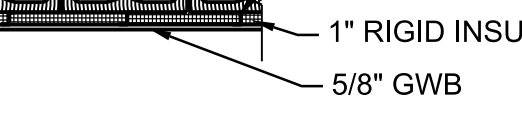
BATT INSULATION
6" METAL STUD @ 16" O.C.
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD

F



5/8" GWB
3-5/8" METAL STUD @ 16" O.C.
BATT INSULATION
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD

G

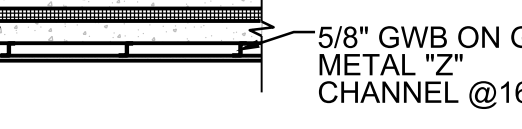


8" CMU OR CONCRETE WALL
GALV METAL "Z" CHANNEL @16 O.C.
1" RIGID INSULATION
5/8" GWB

UL DESIGN: U904

TYPE K WALL ABOVE TO UNDERSIDE OF STRUCTURE

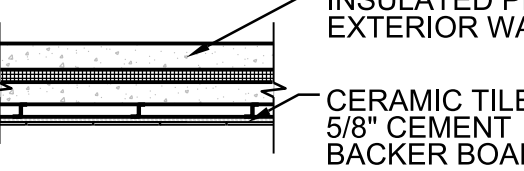
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INSULATED PRECAST EXTERIOR WALL
5/8" GWB ON GALV METAL "Z" CHANNEL @16 O.C.

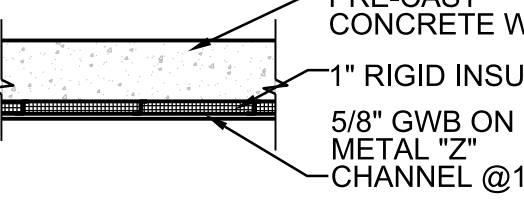
EXTEND WALL FINISH TO UNDERSIDE OF STRUCTURE

H1



INSULATED PRECAST EXTERIOR WALL

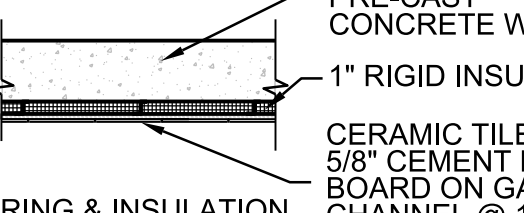
H2



PRE-CAST CONCRETE WALL
1" RIGID INSULATION
5/8" GWB ON GALV METAL "Z" CHANNEL @16 O.C.

EXTEND FURRING, INSULATION & GWB TO UNDERSIDE OF STRUCTURE

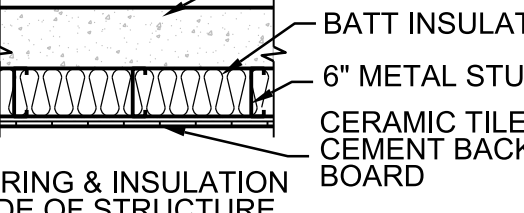
H3



PRE-CAST CONCRETE WALL
1" RIGID INSULATION
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD ON GALV METAL "Z" CHANNEL @ 16" O.C.

EXTEND FURRING & INSULATION TO UNDERSIDE OF STRUCTURE

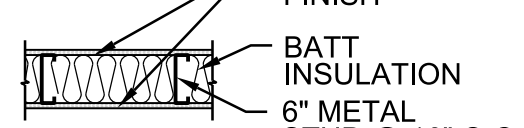
J



PRE-CAST CONCRETE WALL
BATT INSULATION
6" METAL STUD @ 16" O.C.
CERAMIC TILE ON 5/8" CEMENT BACKER BOARD

EXTEND FURRING & INSULATION TO UNDERSIDE OF STRUCTURE

K



5/8" GWB WITH FRP FINISH
BATT INSULATION
6" METAL STUD @ 16" O.C.

UL DESIGN: U419

GENERAL ARCHITECTURAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODES, RULES, AND REGULATIONS RECOGNIZED AND ADOPTED BY THE JURISDICTION HAVING AUTHORITY OVER THIS PROJECT

2. DO NOT SCALE DRAWINGS; WHERE DIMENSIONS BETWEEN SMALL SCALE AND DETAIL DRAWINGS DIFFER, DETAIL DIMENSIONS SHALL GOVERN. FIELD VERIFY DIMENSIONS AND NOTIFY ARCHITECT OF DISCREPANCIES

3. PERFORM WORK IN ACCORDANCE WITH THE ACCEPTED STANDARDS OF THE TRADES. INSTALL MANUFACTURED ITEMS IN STRICT ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS WITH PLUMBING, MECHANICAL AND ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION

4. ITEMS AND CONDITIONS NOTED OR DETAILED ARE APPLICABLE AND BINDING TO SIMILAR CONDITIONS ON DRAWINGS; FOR CONDITIONS NOT NOTED OR DETAILED, CONTRACTOR SHALL PROVIDE MATERIALS OF EQUAL QUALITY AND PERFORMANCE TO OTHER SIMILAR CONDITIONS ON THE JOB

5. ITEMS SHOWN ON THE DRAWINGS, BUT NOT SPECIFIED, ARE TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE; SUCH ITEMS SHALL BE OF A QUALITY LEVEL CONSISTENT WITH THE GENERAL QUALITY LEVEL OF THE CONTRACT REQUIREMENTS

6. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK; SHOULD THE CONTRACTOR FIND, AFTER A VISIT TO THE SITE DURING CONSTRUCTION, DISCREPANCIES, OMISSIONS, AMBIGUITIES OR CONFLICTS IN OR AMONG THE DRAWINGS, OR BE IN DOUBT AS TO THEIR MEANING, HE/SHE SHOULD IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING

7. DEMOLITION SHALL GENERALLY BE ARRANGED TO AGREE WITH THE ACCOMPLISHMENT OF WORK IN COORDINATION WITH THE WORK OF OTHER TRADES. EXAMINE DRAWINGS FOR ADDITIONAL REQUIREMENTS

8. WHERE THE WORDS "PATCH", "MATCH", "REPAIR", "REPLACE"AND THE LIKE ARE USED, SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT COLORS, TEXTURES, AND FINISHES OF DISTURBED AREAS SHALL MATCH IN ALL RESPECTS. "REPLACE" IS DEFINED AS REMOVE EXISTING AND INSTALL NEW, INCLUDING APPROPRIATE ELECTRICAL CONNECTIONS AND WITH MATCHING OR COMPATIBLE EQUIPMENT OR MATERIAL AS SHOWN, SPECIFIED, OR REQUIRED FOR COMPLETE INSTALLATION

9. PATCH HOLES LEFT BY THE REMOVAL OF CONDUITS AND EQUIPMENT IN WALLS, CEILINGS AND FLOORS, AND REPAIR OR REPLACE EXISTING ITEMS DAMAGED BY THE WORK IN THE AREA AFFECTED BY THE WORK WHETHER OR NOT SPECIFICALLY NOTED ON THE DRAWINGS TO BE REPAIRED. REFER TO SPECIFICATIONS FOR DETAILS AND REQUIREMENTS FOR REPAIR WORK.

10. PROVIDE REINFORCED WALLS AND BACKUP AS REQUIRED FOR WALL HUNG OR SUPPORTED ITEMS WHERE INDICATED FOR ITEMS PROVIDED BY THE GC OR OWNER

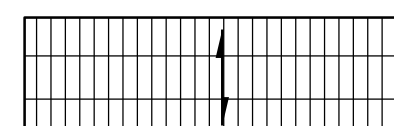
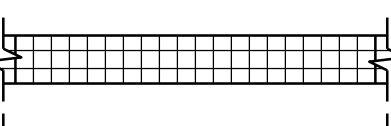

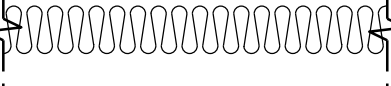
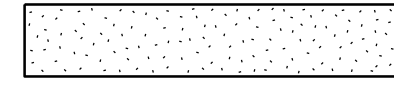
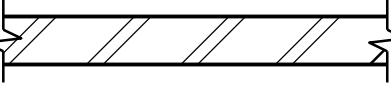
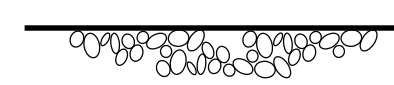
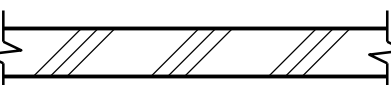



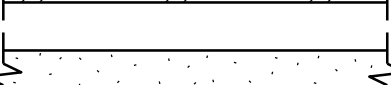

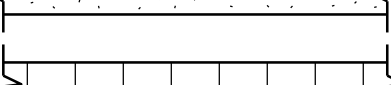

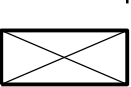

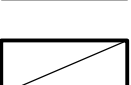

11. CONTRACTOR SHALL LAY OUT SPACE IN ITS ENTIRETY TO CHECK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS; NOTIFY ARCHITECT OF DISCREPANCIES

12. DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED




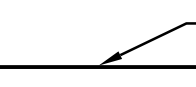

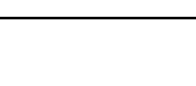

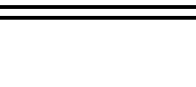
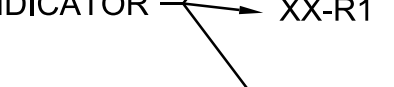
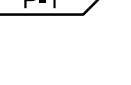

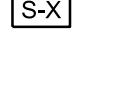


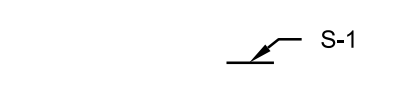
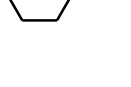





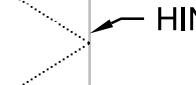

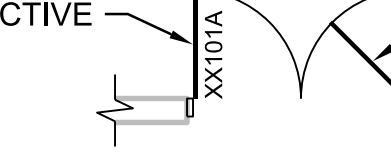

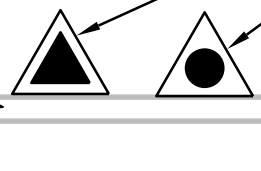

13. PARTITIONS ARE TO EXTEND TO THE UNDERSIDE OF THE DECK ABOVE UNLESS OTHERWISE NOTED

14. REFER TO PROCESS MECHANICAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NOTES PERTAINING TO THEIR PARTICULAR TRADES, AND FIELD CHECK AGAINST CONFLICTS BETWEEN DRAWINGS

ARCHITECTURAL / STRUCTURAL MATERIAL SYMBOLS

SYMBOL	LEGEND	SYMBOL	LEGEND
	GRATING, SPAN DIRECTION INDICATED		RIGID INSULATION
	CHECKERED PLATE		BATT INSULATION
	GROUT, MORTAR		STEEL
	GRANULAR FILL		ALUMINUM
	EARTH OR FINISH GRADE		PLYWOOD
	CONCRETE		GYPSTUM BOARD
	CMU		ACOUSTICAL CEILING TILE
	BRICK		WOOD, ROUGH CONTINUOUS
	FULL HEIGHT WALL		WOOD, ROUGH NON-CONTINUOUS
			WOOD, FINISHED

ARCHITECTURAL / STRUCTURAL LEGEND

SYMBOL	LEGEND	SYMBOL	LEGEND
	GRID / COLUMN INDICATOR		CONTROL JOINT
	ROOM IDENTIFIER		EXPANSION JOINT, "X" = DIMENSION
	DOOR IDENTIFIER		RAILINGS
	WINDOW IDENTIFIER		RAILINGS
	RELIGHT IDENTIFIER		PRECAST PANEL IDENTIFIER
	LOUVER IDENTIFIER		SLAB INDICATOR
	WALL TYPE INDICATOR		COLUMN INDICATOR
	SIGNAGE IDENTIFIER		WALL INDICATOR
	EXTERIOR ELEVATION INDICATOR		BEAM INDICATOR
	INTERIOR ELEVATION INDICATOR		DIRECTION OF SLOPE DOWN
	ON DRAWING WHERE INTERIOR ELEVATION IS SHOWN		HATCH SWING INDICATOR
	SPOT ELEVATION INDICATOR (IN FEET)		INDICATES PAIR OF DOORS (DOOR # ON ACTIVE)
	ELEVATION DATUM (IN FEET)		FIRE EXTINGUISHER "X" = NUMBER IN SPECIFICATIONS
	ELEVATION INDICATION (IN FEET)		

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FILENAME: 01-G-0012A_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 6:54:28 AM

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

Jacobs

GENERAL

ARCHITECTURAL LEGEND

SHEET 1

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE MAY 2021

PROJ D3226100

DWG 01-G-0012A

SHEET 014 of 270

REVISION

BY

APVD

CHK

APVD

DR

D CARR

NO.

DATE

DSGN

A DOLSAK

T DODGE

K RINER

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REUSE OF DOCUMENTS:

CONFIRMED DOCUMENTS

1

2

3

4

5

6

GENERAL SHEET NOTE

THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

ACCESSIBLE MOUNTING HEIGHTS:

1. INSTALLATION OF TOILETS AND OTHER FIXTURES AND ITEMS SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE CHAPTER 11 AND ICC A117.1.

2. GRAB BARS SHALL NOT ROTATE IN THEIR FITTINGS.

3. DOOR OPENING FORCE:

EXTERIOR: 8.5 LBS

INTERIOR: 5.0 LBS

ADA COMPLIANT FOLD TYPE SEAT

1'-6"

48"

18"

CONTROL AREA

GB-2

4" MAX

33" MIN

36" MAX

38"

4'-0" MAX

FULL DEPTH

1 1/2"

1 1/2"

SHOWER SEAT (SHS)

SIDE

BACK

SIDE

SHOWER STALL

LIGHT SWITCH, ALARM OR THERMOSTAT

48"

ALARMS

DISPENSING SLOT

PTD-1

4'-0" MAX ACCESSIBLE

5'-4" NON ACCESSIBLE

PAPER TOWEL DISPENSER/ WASTE RECEPTACLE

SD-2

11"

MAX FROM FRONT OF SINK

3'-4"

SOAP DISPENSER

17" - 18"

DF

9" MIN

27" MIN

36" MAX

SPOUT HEIGHT

6" MAX

8" MIN

DRINKING FOUNTAIN

24"

18"

BENCH TO BE 48" LONG

BENCH

ACCESSORIES

GB-3 42"

4'-6" MIN

3'-6" MIN

3'-0" MAX

38" MAX

33" MIN

19" MIN

7" - 9"

TTD

WC

12" MAX

17"-19"

FLUSH LEVER ON WIDE SIDE

36" MIN

18"

36" MAX

33" MIN

17"-19"

GB-3 36"

WATER CLOSETS

19" MIN WIDTH

MIR

TOP OF LAV OR VANITY

34" MAX

40" MAX

INSULATE EXPOSED PIPES

17" MIN. LAV. DEPTH

11-4.19.3

9" MIN

29" MIN

34"

6" MAX

8" MIN

LAVATORIES & MIRRORS

14" MIN.

FLUSH CONTROL NO MORE THAN 44" A.F.F.

URINAL

17" MAX.

URINALS

36"

17" MIN

19" MAX

42"

12" MAX

60" MIN

42" MIN

ACCESSIBLE WATER CLOSET

60" MIN

(FLOOR MOUNTED W.C.)

32" MIN

60"

42"

52" MIN

56"

6" MAX

16" MIN

18" MAX

42" MIN

36" MIN

PARTITIONS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

ARCHITECTURE LEGEND
SHEET 2

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

DATE MAY 2021

PROJ D3226100

DWG 01-G-0012B

SHEET 015 of 270

CONFIRMED DOCUMENTS

REVISION

CHK

APVD

BY

APVD

A DOLSAK

DR

BJ NARAMORE

NO.

DATE

DGN

V ROMAN-CARDONA

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FILENAME: 01-G-0012b_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 6:54:55 AM

GENERAL NOTES:					
A			1. FIRE SUPPRESSION DRAWINGS SHOW A DIAGRAMMATIC SYSTEM TO INCORPORATE MAJOR ELEMENTS FOR THE CONDITIONAL APPROVAL PRIOR TO THE FINAL DESIGN AND SUBMISSION PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL LAYOUT, DESIGN, CALCULATIONS. THE CONTRACTOR SHALL SUBMIT HIS DESIGN, CALCULATIONS AND PROPOSED EQUIPMENT TO THE OWNERS FOR APPROVAL.		
			2. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS.		
			3. SPRINKLER PIPING MUST BE SIZED USING HYDRAULIC CALCULATIONS. DENSITY AND AREA OF APPLICATION MUST BE PER FIRE PROTECTION REQUIREMENTS TABLE ON DRAWING FP131. SYSTEM VELOCITY MUST NOT EXCEED 20 FEET PER SECOND.		
			4. ADHERE TO AND OBTAIN PERMITS, LICENSES AND GOVERNMENT REQUIREMENTS.		
			5. FIRE STOP PENETRATIONS OF SMOKE/FIRE WALLS. FIRE STOPPING MUST BE OF A U.L. LISTED AND/OR FM APPROVED ASSEMBLY.		
			6. MEANS OF HANGING AND HANGER SPACING MUST BE PER NFPA 13, AND COORDINATED WITH BUILDING STRUCTURE.		
			7. CONTROL VALVES AND FLOW SWITCHES FOR THE FIRE SPRINKLER SYSTEM MUST BE ELECTRONICALLY SUPERVISED AND MONITORED BY AN APPROVED CENTRAL STATION. FLOW SWITCHES & TAMPER SWITCHES MUST BE FURNISHED AND INSTALLED BY DIV. 21. WIRING TO FIRE ALARM SYSTEM MUST BE TERMINATED AND TESTED BY DIV. 28.		
			8. CONTROL, DRAIN AND TEST CONNECTION VALVES MUST BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS. THE SIGN MUST BE SECURED WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS.		
			9. DESIGN AND LAYOUT OF SPRINKLER SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATION. SUBMIT COMPLETE SHOP DRAWINGS, MATERIAL DATA, HYDRAULIC CALCULATIONS, AND FLOW TEST RESULTS TO CONTRACTING OFFICER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING FABRICATION AND INSTALLATION.		
			10. MATERIALS MUST BE U.L. LISTED AND/OR FM APPROVED.		
B			11. NO SPRINKLER PIPING WILL BE INSTALLED PASSING THROUGH ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS/EQUIPMENT WHICH SERVES OTHER AREAS. EQUIPMENT, PIPING, DUCTWORK, MACHINERY, ETC THAT DOES NOT SERVE THE ELECTRICAL ROOM MUST NOT BE INSTALLED ABOVE, BELOW (I.E. IN OR UNDER SLAB) OR ENTER OR PASS THRU THIS SPACE. ONLY DEDICATED BRANCH SPRINKLER PIPING WILL BE ALLOWED WITHIN EACH OF THE SPACES INDICATED ABOVE OR SIDEWALL SPRINKLER HEADS MUST BE USED. COORDINATE THE LOCATION OF PIPING WITH ELECTRICAL EQUIPMENT AND OTHER TRADES AND ADJUST AS NECESSARY.		
			12. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, VERIFY DIMENSIONS, CONDITIONS AND LAYOUT AT JOB SITE PRIOR TO FABRICATION OF MATERIAL AND PROVIDE ANY ADDITIONAL MATERIAL OR MODIFICATIONS TO FURNISH A COMPLETE AND OPERABLE SPRINKLER SYSTEM TO MEET THE REQUIRED CODES.		
			13. FURNISH PENDANT SPRINKLER HEADS ON RETURN BENDS IN ROOMS WITH CEILINGS.		
			14. MECHANICAL COUPLINGS, GASKETS AND FITTINGS MUST BE FROM THE SAME MANUFACTURER.		
			15. SPRINKLER HEADS 7 FOOT OR LESS ABOVE THE FLOOR MUST HAVE APPROVED HEADGUARDS.		
			16. CUTTING STRUCTURAL MEMBERS OR REINFORCING FOR PASSAGE OF PIPES OR FOR PIPE-HANGER FASTENINGS WILL NOT BE PERMITTED. PIPES THAT MUST PENETRATE MASONRY WALLS MUST BE CORE-DRILLED WITHOUT CUTTING REINFORCING.		
CODES AND STANDARDS					
THE FOLLOWING CODES AND STANDARDS MUST APPLY: *NFPA 10 - 2018 EDITION, STANDARD FOR PORTABLE FIRE EXTINGUISHER *NFPA 13 - 2016 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS *NFPA 20 - 2016 EDITION, STANDARD FOR THE INSTALLATION OF STAIONARY PUMPS FOR FIRE PROTECTION *NFPA 24 - 2016 EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES *NFPA 25 - 2017 EDITION, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS *NFPA 72 - 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE *NFPA 101 - 2018 EDITION, LIFE SAFETY CODE *NFPA 820 - 2012 EDITION, STANDARD FOR FIRE PROTECTION IN WASTE WATER TREATMENT & COLLECTION FACILITIES *NFPA 2001 - 2012 EDITION, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEM					

FIRE PROTECTION SYMBOLS				
1. SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.				
2. EXISTING TO REMAIN IS SHOWN WITH THIN LIGHT LINES.				
3. NEW WORK IS SHOWN WITH SOLID HEAVY LINES.				
DOUBLE LINE		SINGLE LINE		
		ELBOW UP		PENDANT SPRINKLER
		ELBOW DOWN		UPRIGHT SPRINKLER
		TEE UP		TEST HEADER
		TEE DOWN		SEMI-RECESSED FIRE EXTINGUISHER CABINET
		LATERAL UP		WALL MOUNTED FIRE EXTINGUISHER CABINET
		LATERAL DOWN		APPROXIMATE HANGER LOCATION
		CONCENTRIC REDUCER		FOUR-WAY BRACING
		ECCENTRIC REDUCER		LONGITUDINAL BRACING
		UNION		LATERAL BRACING
		ELBOW, 90 DEGREE		HYDRAULIC NODE
		TEE		GATE
		ELBOW, 45 DEGREE		NOT SPRINKLERED
		BUTTERFLY		

ABBREVIATIONS					
ACC	-	ACCESS	KV	-	KILOVOLT
ADJ	-	ADJUSTABLE	KW	-	KILOWATTS
AFF	-	ABOVE FINISHED FLOOR	KWH	-	KILOWATT HOURS
AHJ	-	NAVFAC MIDLANT C145	LBS	-	POUNDS
		FIRE PROTECTION	LTG	-	LIGHTING
		ENGINEERING DEPARTMENT	MH	-	MANHOLE
ALT	-	ALTERNATE	MAX	-	MAXIMUM
APPROX	-	APPROXIMATE	MEZZ	-	MEZZANINE
ARCH	-	ARCHITECTURAL	MFR	-	MANUFACTURER
ASSY	-	ASSEMBLY	MIN	-	MINIMUM/MINUTE
BLDG	-	BUILDING	MJ	-	MECHANICAL JOINT
BOT	-	BOTTOM	MISC	-	MISCELLANEOUS
CFCI	-	CONTRACTOR FURNISHED	MTD	-	MOUNTED
		CONTRACTOR INSTALLED	MTG	-	MOUNTING
CL	-	CENTERLINE	NO	-	NUMBER
CLG	-	CEILING	NOM	-	NOMINAL
CMU	-	CONCRETE MASONRY UNIT	NPT	-	NATIONAL PIPE THREAD
CONN	-	CONNECTION/CONNECT	NTS	-	NOT TO SCALE
CONTR	-	CONTRACTOR	OC	-	ON CENTER
CORR	-	CORRIDOR	OD	-	OUTSIDE DIAMETER
DET	-	DETAIL	OFCI	-	OWNER FURNISHED
DIA	-	DIAMETER			CONTRACTOR INSTALLED
DIM	-	DIMENSION	OFOI	-	OWNER FURNISHED
DIV	-	DIVISION			OWNER INSTALLED
DN	-	DOWN	Ø	-	PHASE
DWG	-	DRAWING	PRESS	-	PRESSURE
EA	-	EACH	PIV	-	POST INDICATING VALVE
ELEV	-	ELEVATION	PRV	-	PRESSURE REDUCING VALVE
EQUIP	-	EQUIPMENT	PSI	-	POUNDS PER SQUARE INCH
ETR	-	EXISTING TO REMAIN	PSIG	-	POUNDS PER SQ INCH GAUGE
EXT	-	EXTERIOR	RAD	-	RADIUS
FDC	-	FIRE DEPARTMENT CONNECTION	REQD	-	REQUIRED
FH	-	FIRE HYDRANT	RPM	-	REVOLUTIONS PER MINUTE
FLG	-	FLANGE	SHT	-	SHEET
FLR	-	FLOOR	SPEC	-	SPECIFICATION
FPM	-	FEET PER MINUTE	SP	-	SPRINKLER
FT	-	FEET	SQ	-	SQUARE
FTG	-	FOOTING	TEMP	-	TEMPERATURE
GA	-	GAUGE	TOB	-	TOP OF BEAM
GAL	-	GALLON	TOD	-	TOP OF DECK
GALV	-	GALVANIZED	TOJ	-	TOP OF JOIST
GFCI	-	GOVERNMENT FURNISHED	TOS	-	TOP OF SLAB/TOP OF STEEL
		CONTRACTOR INSTALLED	TYP	-	TYPICAL
GPM	-	GALLONS PER MINUTE	UNO	-	UNLESS NOTED OTHERWISE
HP	-	HORSEPOWER/HIGH POINT	VOL	-	VOLUME
HVLS	-	HIGH VOLUME LOW SPEED	W/	-	WITH
IN	-	INSIDE DIAMETER	W/O	-	WITHOUT
IAW	-	IN ACCORDANCE WITH	WWF	-	WELD WIRE FABRIC
IN	-	INCHES			

CODES AND STANDARDS			
THE FOLLOWING CODES AND STANDARDS MUST APPLY: *NFPA 10 - 2018 EDITION, STANDARD FOR PORTABLE FIRE EXTINGUISHER *NFPA 13 - 2016 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS *NFPA 20 - 2016 EDITION, STANDARD FOR THE INSTALLATION OF STAIONARY PUMPS FOR FIRE PROTECTION *NFPA 24 - 2016 EDITION, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES *NFPA 25 - 2017 EDITION, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS *NFPA 72 - 2016 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE *NFPA 101 - 2018 EDITION, LIFE SAFETY CODE *NFPA 820 - 2012 EDITION, STANDARD FOR FIRE PROTECTION IN WASTE WATER TREATMENT & COLLECTION FACILITIES *NFPA 2001 - 2012 EDITION, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEM			

D			FIRE PROTECTION REQUIREMENTS				WATER SUPPLY DATA
			HAZARD	HAZARD	HAZARD	HAZARD	
			DESCRIPTION	LIGHT HAZARD	ORDINARY HAZARD	EXTRA HAZARD	FLOW TEST
			APPLICATION AREA	OFFICES, REST ROOMS, LOBBY, CORRIDORS, LOCKER ROOMS, BREAK ROOM, TRAINING ROOM, CONTROL ROOM	STORAGE/SHOP, CHEMICAL STORAGE AREAS, SERVER ROOM	ELECTRICAL ROOM CHEMICAL STORAGE, FEED ROOM	
			DESIGN DENSITY	0.10 GPM/SF	0.20 GPM/SF	0.30 GPM/SF	66 PSI
			DISCHARGE TIME	60 MIN	60 MIN	90 MIN	56 PSI
			SPRINKLER TYPE	QUICK RESPONSE TYPE	QUICK RESPONSE TYPE	REGULAR RESPONSE TYPE	1,450 GPM
			COVERAGE PER SPRINKLER	225 SF	130 SF	100 SF	3,306 GPM
			HOSE STREAM	250 GPM	250 GPM	500 GPM	DATE OF TEST
			DESIGN AREA (NOTE 1, 2, 3 & 4)	1,500 SF	1,500 SF	3,000 SF (OR ENTIRE ROOM IF SEPARATED FROM REST OF BUILDING BY FIRE RATED CONSTRUCTION)	MAY 12, 2020
			SPRINKLER TEMP RATING	PER NFPA 13	PER NFPA 13	PER NFPA 13	TIME OF TEST
			MAXIMUM CEILING HEIGHT	30 FT	60 FT	30 FT	13:20
			SPACE BETWEEN SPRINKLERS	15 FT MAX	13 FT MAX	12 FT MAX	TEST PERFORMED BY:
			FLOOR AREA THROUGH ONE RISER	52,000 SF/SYSTEM	52,000 SF/SYSTEM	40,000 SF/SYSTEM	CH2M HILL
			K-FACTOR OF SPRINKLER NOZZLE	5.6	8.0	8.0	
			"C" FACTOR	120	120	120	
NOTE: 1. DESIGN AREA SHALL BE INCREASED 30% WHEN THE CEILING/ROOF SLOPE IS GREATER THAN 1 IN 10 (10%). 2. EXTENDED COVERAGE SPRINKLERS NOT ALLOWED. 3. ALL AREAS TO BE MAINTAINED ABOVE 40° 4. TEMP IN BUILDING NOT TO EXCEED 100°							

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502				C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS)			
				MOBILE, ALABAMA			
				GENERAL FIRE PROTECTION LEGEND			
				NTS			
				VERIFY SCALE			
				BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"			
				DATE MAY 2021			
				PROJ D3226100			
				DWG 01-G-0013			
				SHEET 016 of 270			

1		2		3		4		5		6	
FIRE ALARM SYMBOLS											
CODES AND STANDARDS			SYMBOLS		DESCRIPTION		ABBREVIATIONS				
THE FOLLOWING CODES AND STANDARDS SHALL APPLY: NFPA 70 - NATIONAL ELECTRIC CODE (2014 EDITION) NFPA 72 - NATIONAL FIRE ALARM CODE (2013 EDITION) NFPA 101 - LIFE SAFETY CODE (2012 EDITION) NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHER SYSTEM (2012 EDITION)			THIS IS A STANDARD LEGEND SHEET, SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPEAR ON THE PLAN DRAWING		<div><div>F</div><div>FIRE ALARM MANUAL DOUBLE - ACTION PULL STATION</div></div> <div><div>XXXX</div><div>FACP - FIRE ALARM CONTROL PANEL FAAP - FIRE ALARM ANNUNCIATOR PANEL FARP - RELEASING SYSTEM CONTROL PANEL FTR - FIRE ALARM TRANSCIVER/ RECEIVER NAC - NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY LOC - LOCAL OPERATING CONSOLE FMCP - FIRE ALARM MASS NOTIFICATION CONTROL PANEL DACT - DIGITAL ALARM COMMUNICATOR TRANSMITTER (CELLULAR)</div></div> <div><div><div>S</div><div>P</div></div><div>SMOKE DETECTOR, X = DEVICE TYPE P - ADDRESSABLE PHOTO ELECTRIC</div></div> <div><div><div>I</div><div>S</div><div>P</div></div><div>DUCT SMOKE DETECTOR, ADDRESSABLE PHOTOELECTRIC</div></div> <div><div><div>H</div><div>F</div></div><div>HEAT DETECTOR F - FIXED TEMPERATURE</div></div> <div><div><div>H</div><div>R/F</div></div><div>HEAT DETECTOR R/F - COMBINATION FIXED TEMPERATURE AND RATE OF RISE</div></div> <div><div><div>CD</div><div><div>CO</div><div><div></div><div></div></div></div><div>WALL MOUNT FIRE ALARM HORN/STROBE COMBO DEVICE, CLEAR LENS. CD = NFPA 72 TABLE 18.5.4.3.1(a) CANDELA MINIMUM, IF GREATER THAN 15cd, TYP. WP = WEATHER PROOF W = SPEAKER WATTAGE IF GREATER THAN 0.5 C = CEILING MOUNTED</div></div><div><div><div></div><div></div></div><div>STROBE DEVICE, CLEAR LENS</div></div><div><div>DH</div><div>FIRE RATED DOOR INTERFACE HOLD OPEN DEVICE</div></div><div><div>ISM</div><div>SLC ISOLATION MODULE</div></div><div><div>NC</div><div>NAC/ RELEASING CONTROL MODULE, SUPERVISED OUTPUT</div></div><div><div>CM</div><div>CONTROL MODULE, UNSUPERVISED RELAY CONTACT OUTPUT</div></div><div><div>IM</div><div>IDC SUPERVISING MODULE, DRY CONTACT SINGLE INPUT SUPERVISION</div></div><div><div>DM</div><div>IDC SUPERVISING MODULE, DRY CONTACT DUAL INPUT SUPERVISION</div></div><div><div>AM</div><div>ANALOG MODULE, 4-20ma SIGNAL INPUT</div></div><div><div>KH</div><div>KITCHEN HOOD SUPPRESSION SYSTEM</div></div><div><div>WF</div><div>WATER FLOW SWITCH</div></div><div><div>PS</div><div>PRESSURE SWITCH</div></div><div><div>VT</div><div>VALVE TAMPER SWITCH</div></div><div><div>PIV</div><div>POST INDICATOR VALVE TAMPER SWITCH</div></div><div><div><div>FS</div><div></div></div><div>FIRE/ SMOKE DAMPER</div></div><div><div>K</div><div>KNOX BOX, SUPERVISED, NORMALLY OPEN SWITCH</div></div><div><div>M</div><div>KEYED AND SUPERVISED SOLENOID DISCONNECT MAINTENANCE SWITCH</div></div><div><div>SS</div><div>SURGE SUPPRESSOR</div></div><div><div>R</div><div>INTERPOSING RELAY</div></div><div><div>S</div><div>CEILING MOUNTED SPEAKER</div></div><div><div>EOL</div><div>END OF LINE RESISTOR</div></div><div><div>SOV</div><div>SUPERVISED SOLENOID VALVE</div></div></div>		AFF ABOVE FINISH FLOOR AFFF AQUE FILM FORMING FOAM AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT ASSD ASPIRATION SMOKE DETECTOR (VESDA, ANALYZER) AUX POWER SUPPLY AUXILIARY POWER SUPPLY UNIT BEAM DET BEAM DETECTOR CRAC COMPUTER ROOM AIR CONDITIONING UNIT DAMPER FIRE DAMPER CONTROL MODULE B.G. BELOW GRADE BLDG BUILDING C CONDUIT CLG CEILING CONT CONTINUED DN DOWN DWG DRAWING (E) EXISTING EA EACH EF EXHAUST FAN EQ EQUIPMENT EMT ELECTRICAL METALLIC TUBING EXP EXPLOSION - PROOF RATED FAS FIRE ALARM SYSTEM FD FIRE DOOR FLR FLOOR FO FIBER OPTIC FZ FIRE ZONE G GROUND CONDUCTOR HEF HIGH EXPANSION FOAM HTR HEATER				
							IDC INITIATING DEVICE CIRCUIT (CONVENTIONAL) IR INFRARED MNS MASS NOTIFICATION SYSTEM CM METAL CLAD NAC NOTIFICATION APPLIANCE CIRCUIT (AUDIBLE OR VISUAL) NTS NOT TO SCALE O.C. ON CENTER PA PUBLIC ANNOUNCEMENT PR PAIR PVC POLYVINYL CHLORIDE CONDUIT QTY QUANTITY RM ROOM SH SHIELD OR SHIELDED SLC SIGNALING LINE CIRCUIT (ADDRESSABLE) SPD SURGE PROTECTIVE DEVICE TW TWISTED TYP TYPICAL U.N.O. UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY VEWSD VERY EARLY WARNING SMOKE DETECTOR W/ WITH W/O WITHOUT WP WEATHERPROOF				
GENERAL FIRE ALARM PLAN NOTES:											
<div>1. FOR FIRE ALARM SYSTEM LEGEND REFER TO THIS SHEET.</div> <div>2. ALL STROBES WILL BE COORDINATED WITH PLANS STROBES WILL BE SYNCHRONIZED THROUGHOUT GIVEN FIRE ZONE AND IN LINE OF SITE.</div> <div>3. SLC AND IDC CONDUCTORS WILL BE A MINIMUM OF #16 AWG. AUDIBLE NAC CONDUCTORS WILL BE A MINIMUM OF #16 AWG. VISUAL NAC CONDUCTORS WILL BE A MINIMUM OF #12 AWG. INCREASE CONDUCTOR GAUGE ACCORDING TO VOLTAGE DROP CALCULATIONS THAT MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.</div> <div>4. SYSTEM CONDUCTORS WILL BE ROUTED IN CONDUIT OF MINIMUM 3/4" SIZE. JUNCTION BOXES, COVERPLATES, AND CONDUIT WILL BE RED IN COLOR.</div> <div>5. COORDINATE LOCATION OF NOTIFICATION APPLIANCES WITH OTHER DEVICES (HVAC PROCESS MECHANICAL, ETC) BUT MAINTAIN ADEQUATE SPACE AND QUANTITY TO MEET NFPA 72 REQUIREMENTS.</div> <div>6. SYSTEM LAYOUT SHOWS THE INTENT OF THE COVERAGE AND IS SHOWN IN SUGGESTED LOCATIONS. PROVIDE FINAL QUANTITY, LAYOUT AND COORDINATION FOR ADDITIONAL REQUIREMENTS SEE SPECIFICATIONS SECTION 28 31 00.</div> <div>7. ROUGH- IN INSTALLATION OF CONDUITS AND BACK BOXES MAY BE BY ELECTRICAL CONTRACTOR WITH INSTALLATION AND TERMINATION OF CONDUCTORS AND DEVICES BY NICET CERTIFIED FIRE ALARM INSTALLERS.</div> <div>8. PROVIDE FIELD VERIFICATION OF ALL EXISTING LOCATIONS AND CONDITIONS OF ITEMS RELATED TO THIS PROJECT PRIOR TO START OF CONSTRUCTION.</div> <div>9. BECOME FAMILIAR WITH THE DETAILS OF WORK. VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE OWNER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.</div> <div>10. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR SECTIONS AND SPACE ELEVATIONS.</div>											
25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502			C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS)			MOBILE, ALABAMA			NTS		
									VERIFY SCALE		
JACOBS			GENERAL FIRE ALARM LEGEND			BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"			DATE MAY 2021		
						PROJ D3226100			DWG 01-G-0014		
SHEET			017 of 270			DATE			MAY 2021		
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PROJ			D3226100			DWG			01-G-0014		
SHEET			017 of 270			DATE			MAY 20		

PLUMBING SYMBOLS		
DOUBLE LINE	SINGLE LINE	
		EXISTING PIPE
		NEW PIPE
		CAP
		ELBOW, 90 DEGREE
		ELBOW, 45 DEGREE
		ELBOW UP
		ELBOW DOWN
		TEE
		TEE UP
		TEE DOWN
		LATERAL
		LATERAL UP
		LATERAL DOWN
		CROSS
		REDUCING BUSHING
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		UNION
		WELDED JOINT
		GROOVED END JOINT
		FLANGED JOINT
		MECHANICAL JOINT & PROPRIETARY RESTRAINED JOINT
		BELL & SPIGOT JOINT (LEADED)
		HUB & SPIGOT JOINT (RUBBER GASKET)
		BALL JOINT
		ADAPTER SIDE
		GROOVED END ADAPTER FLANGE
		FLANGED COUPLING ADAPTER
		FLEXIBLE COUPLING
		CLEANOUT PLUG
		FLEXIBLE PIPE CONNECTION
		STRAINER
		PUMP
		TEMPERATURE GAUGE

	PRESSURE SWITCH
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	HOSE RACK (TYPE AS INDICATED)
	COMBINATION SAFETY SHOWER & EYEWASH
	COMBINATION SAFETY SHOWER & EYEWASH (FROST PROOF)
	HOSE VALVE
	CLEANOUT Y = F - FLOOR CLEANOUT W - WALL CLEANOUT X = NO. IN SPECIFICATION
	HUB DRAIN X = NO. IN SPECIFICATION Y = T WITH DEEP SEAL TRAP Y = P WITH PRIMED TRAP
	FLOOR DRAIN X = NO. IN SPECIFICATION Y = T WITH DEEP SEAL TRAP Y = P WITH PRIMED TRAP

PLUMBING EQUIPMENT IDENTIFICATION	
IDENTIFICATION	EQUIPMENT NAME
AC	AIR COMPRESSOR
RCP	CIRCULATION PUMP
DT	DILUTION TANK
ET	EXPANSION TANK
ETP	ELECTRONIC TRAP PRIMER
EW	ELECTRIC WATER HEATER
GW	NATURAL GAS WATER HEATER
HV	HOSE VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ST	STORAGE TANK
VP	VACUUM PUMP
WHA	WATER HAMMER ARRESTOR
EXAMPLE CALLOUT:	
FACILITY NUMBER OR UNIT PROCESS (OPTIONAL)	30 - WH - 1
EQUIPMENT LEGEND	
NO. IN SPECIFICATIONS	

VALVE SYMBOLS	
SINGLE LINE	DOUBLE LINE
	GATE
	BUTTERFLY
	GLOBE
	BALL
	PLUG OR COCK
	SWING CHECK
	BALL CHECK
	HOSE VALVE
	PRESSURE RELIEF
	AIR AND/OR VACUUM RELEASE
	REGULATED SIDE
	PRESSURE CONTROL (INTERNAL PILOT)
	BALANCE VALVE (RHW, RTW)
	BACKFLOW PREVENTER

PLUMBING GENERAL NOTES	
1. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE FIXTURES AND EQUIPMENT REQUIRED. SOME PIPING SHOWN ON THE FLOOR PLANS MAY BE SHOWN WITH AN OFFSET FOR CLARITY. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION AND DETAILED LAYOUT OF PLUMBING SYSTEMS INCLUDING REQUIRED ADDITIONAL OFFSETS, FITTINGS, VENTS, VALVES, ETC. THE DESIGN SHALL BE IN ACCORDANCE WITH THE PLUMBING DRAWINGS AND APPLICABLE CODES. ACTUAL CONDITIONS SHALL GOVERN OVER WRITTEN DIMENSIONS AND WRITTEN DIMENSIONS SHALL GOVERN OVER ACTUAL DRAWINGS REPRESENTATION.	10. PIPING ELEVATIONS SHOWN ARE APPROXIMATE, FIELD VERIFY PIPING ELEVATIONS WITH OTHER PIPING SYSTEMS PRIOR TO INSTALLATION.
2. THE INSTALLATION OF THE REQUIRED PLUMBING SYSTEMS SHALL MEET OR EXCEED ALL CODES HAVING JURISDICTION AND SHALL RELATE TO ALL AUTHORITIES HAVING JURISDICTION.	11. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.
3. ALL BURIED AND CONCRETE ENCASED COPPER PIPING SHALL BE INSTALLED WITH A PROTECTIVE SLEEVE FOR ITS ENTIRE LENGTH. SLEEVE, SHALL BE FLEXIBLE POLYETHYLENE BAGGING. EXTEND SLEEVE, 2 INCHES ABOVE FINISHED FLOOR.	12. ALL PIPES PASSING THROUGH FIRE RATED WALLS SHALL BE INSTALLED TO MEET APPLICABLE UL SYSTEM REQUIREMENTS PERTAINING TO THE TYPE OF CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR WALLS WHICH ARE FIRE RATED. SEE DETAIL
4. INSTALL TRAP PRIMER VALVE CONNECTION ON ALL FLOOR AND HUB DRAINS WITH "P" EXTENSION.	13. ALL PIPE PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SLEEVED AND SEALED.
5. FURNISH AND INSTALL WATER HAMMER ARRESTORS ON W1 AND HW PIPING IN PROXIMITY TO PLUMBING FIXTURES OR QUICK CLOSING VALVES. INSTALL PER RECOMMENDATIONS OF THE PDI INSTITUTE. PROVIDE ACCESS PANELS AS REQUIRED.	14. PROVIDE OFFSETS IN THE PIPING RUNS, IN ADDITION TO WHAT IS SHOWN ON THE DRAWINGS, WHERE REQUIRED TO CLEAR DUCT, STRUCTURE AND OTHER PIPING SYSTEMS.
6. PLUMBING VENTS THROUGH ROOF SHALL BE OFFSET AT ROOF TO PROVIDE MINIMUM DISTANCE OF 3'-0" FROM EXTERIOR WALL.	15. THE CONTRACTOR SHALL COORDINATE THE PLUMBING WORK WITH MECHANICAL, HVAC, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL WORK.
7. CLEANOUT TO GRADE FITTINGS, WHERE SANITARY DRAIN EXITS THE BUILDING, SHALL ALLOW FOR RODDING BOTH WAYS.	16. THE FOLLOWING CODES AND STANDARDS SHALL APPLY: INTERNATIONAL BUILDING CODE, 2012. INTERNATIONAL MECHANICAL CODE, 2012. INTERNATIONAL PLUMBING CODE, 2012. NFPA 54 , 2012
8. INSULATE ABOVE GRADE DRAINAGE PIPING THAT RECEIVES CONDENSATE FROM AIR CONDITIONING UNITS.	17. FOR PIPING SCHEDULE SEE SPECIFICATION 40 27 00.
9. PROVIDE CLEANOUTS IN SANITARY WASTE PIPING AS SHOWN ON THE DRAWINGS. FURNISH AND INSTALL ADDITIONAL CLEANOUTS AS REQUIRED BY CODE.	18. CONCRETE ENCASE ALL PIPING BELOW BUILDING SLABS. SEE STRUCTURAL DETAILS.
	19. CUTTING STRUCTURAL MEMBERS OR REINFORCING FOR PASSAGE OF PIPES OR FOR PIPE -HANGER FASTENINGS WILL NOT BE PERMITTED. PIPES THAT MUST PENETRATE CONCRETE WALLS OR CONCRETE FLOORS SHALL BE PROVIDED WITH CAST-IN-PLACE PIPE SLEEVES. PIPES THAT MUST PENETRATE MASONRY WALLS SHALL BE CORE- DRILLED WITHOUT CUTTING REINFORCING AND PROVIDED WITH PIPE SLEEVES.

PIPING IDENTIFICATION	
ARD	ACID RESISTANT DRAIN
ARV	ACID RESISTANT VENT
AVTR	ACID VENT THROUGH ROOF
D	SANITARY DRAIN
DI	DEIONIZED WATER
DR	PROCESS DRAIN
HW	HOT WATER - POTABLE
NG	NATURAL GAS
RHW	RETURN HOT WATER - POTABLE
RTW	RETURN TEPID WATER
TW	TEPID WATER
V	SANITARY DRAIN VENT
VTR	SANITARY DRAIN VENT THROUGH ROOF
W1	POTABLE WATER
W2	BACKFLOWED POTABLE WATER

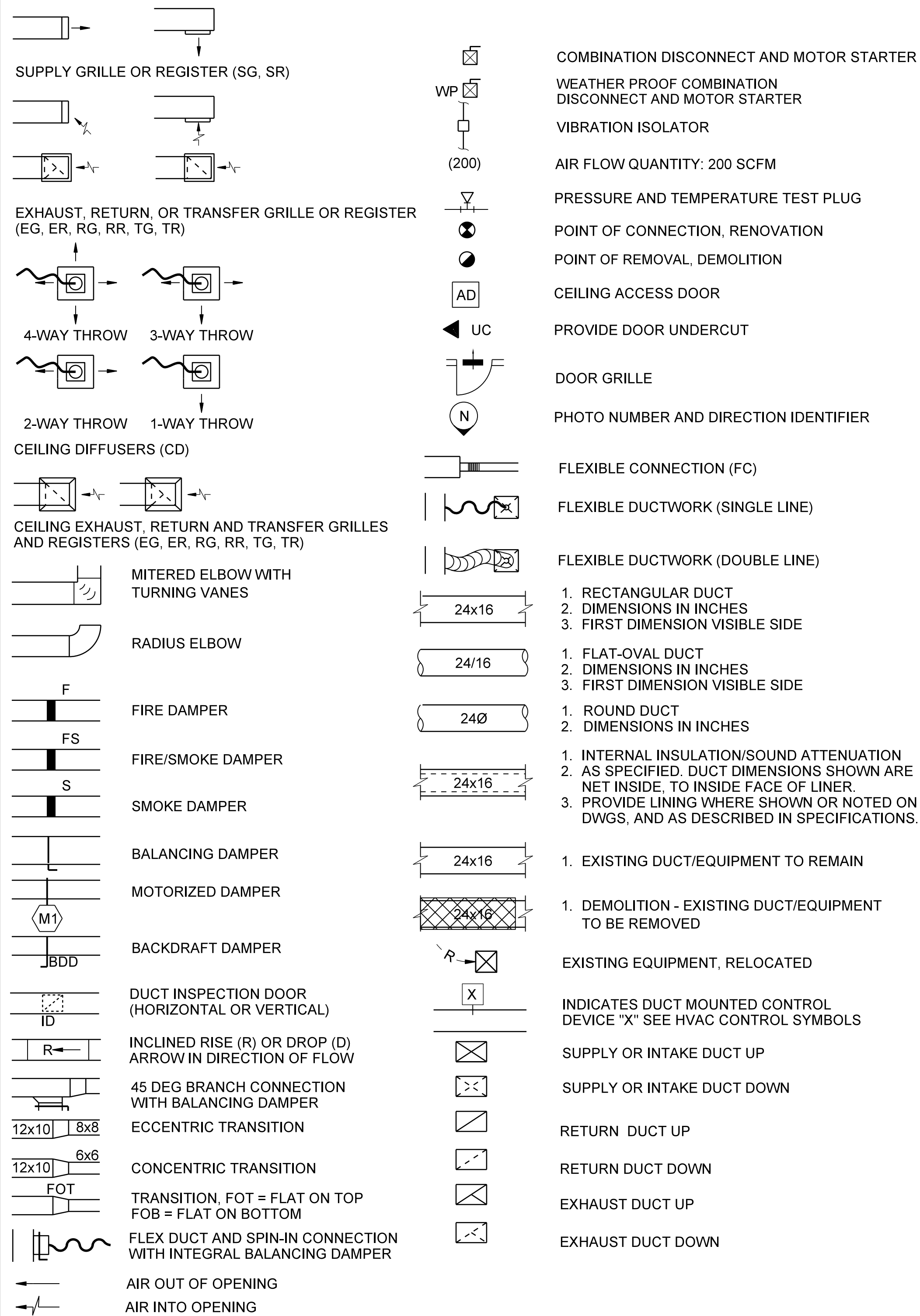
PLUMBING FIXTURE IDENTIFICATION	
LEGEND	FIXTURE
CS	CUP SINK
EE	EMERGENCY EYE WASH
EED	EMERGENCY EYE WASH DECK MOUNTED/WALL MOUNTED WITH DRENCH HOSE
ET	EXPANSION TANK
EW	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
HV	HOSE VALVE OR HYDRANT
IWH	TANKLESS WATER HEATER
LSK	LABRATORY SINK
LP	LABRATORY FAUCET OR COCK
SP	SUMP PUMP
SSH	SAFETY SHOWER/EYEWASH COMBINATION
TMV	THERMOSTATIC MIXING VALVE
WCO	WALL CLEAN OUT
YH	YARD HYDRANT

ABBREVIATIONS	
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CL	CENTERLINE
CO	CLEANOUT
DCO	DOUBLE WAY CLEANOUT
DN	DOWN
EL	ELEVATION
ETP	ELECTRONIC TRAP PRIMER
EW	ELECTRIC WATER HEATER
FD	FLOOR DRAIN
FF	FINISH FLOOR
GW	NATURAL GAS WATER HEATER
HD	HUB DRAIN
HTI	HEAT TRACE AND INSULATE
HV	HOSE VALVE
IE	INVERT ELEVATION
OD	OUTSIDE DIAMETER
PTRV	PRESSURE/TEMPERATURE RELIEF VALVE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SIM	SIMILAR
STL	STEEL
SST	STAINLESS STEEL
TV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
WHA	WATER HAMMER ARRESTOR
YH	YARD HYDRANT

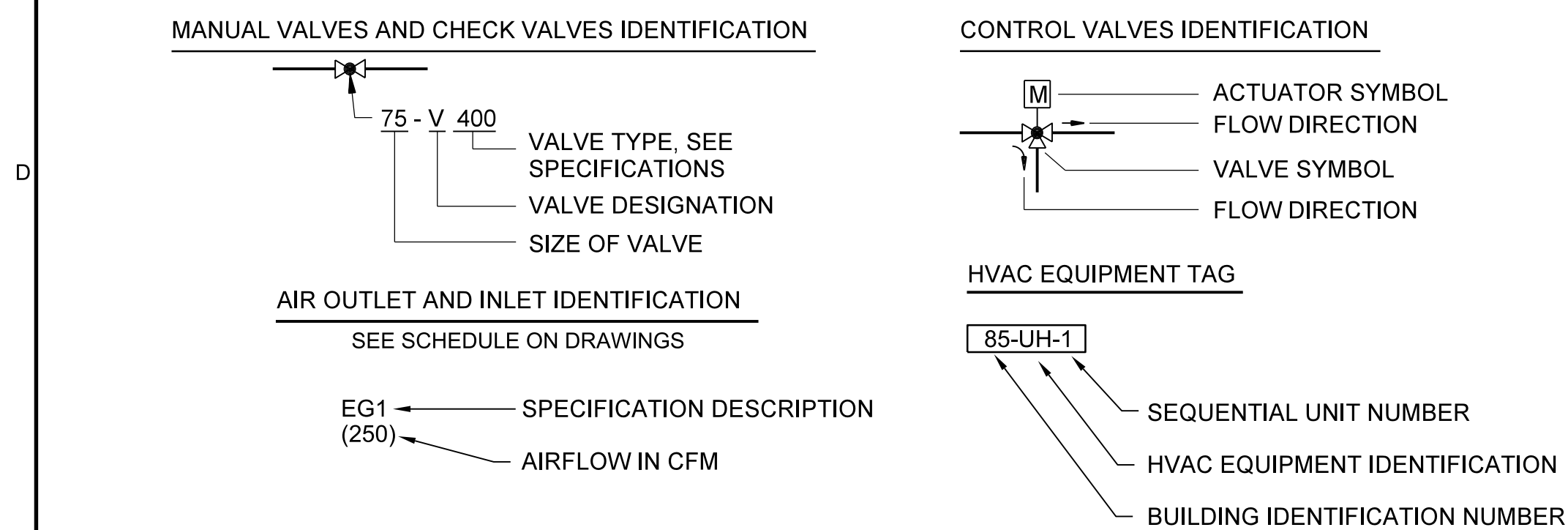
EXAMPLE CALLOUT:	
SSH - 1	
FIXTURE DESCRIPTION	
NO. IN SPECIFICATIONS	

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA	
NTS		VERIFY SCALE		DATE MAY 2021	
BAR IS ONE INCH ON ORIGINAL DRAWING.		PROJ D3226100		DWG 01-G-0015	
SHEET 018 of 270		SHEET 018 of 270		SHEET 018 of 270	

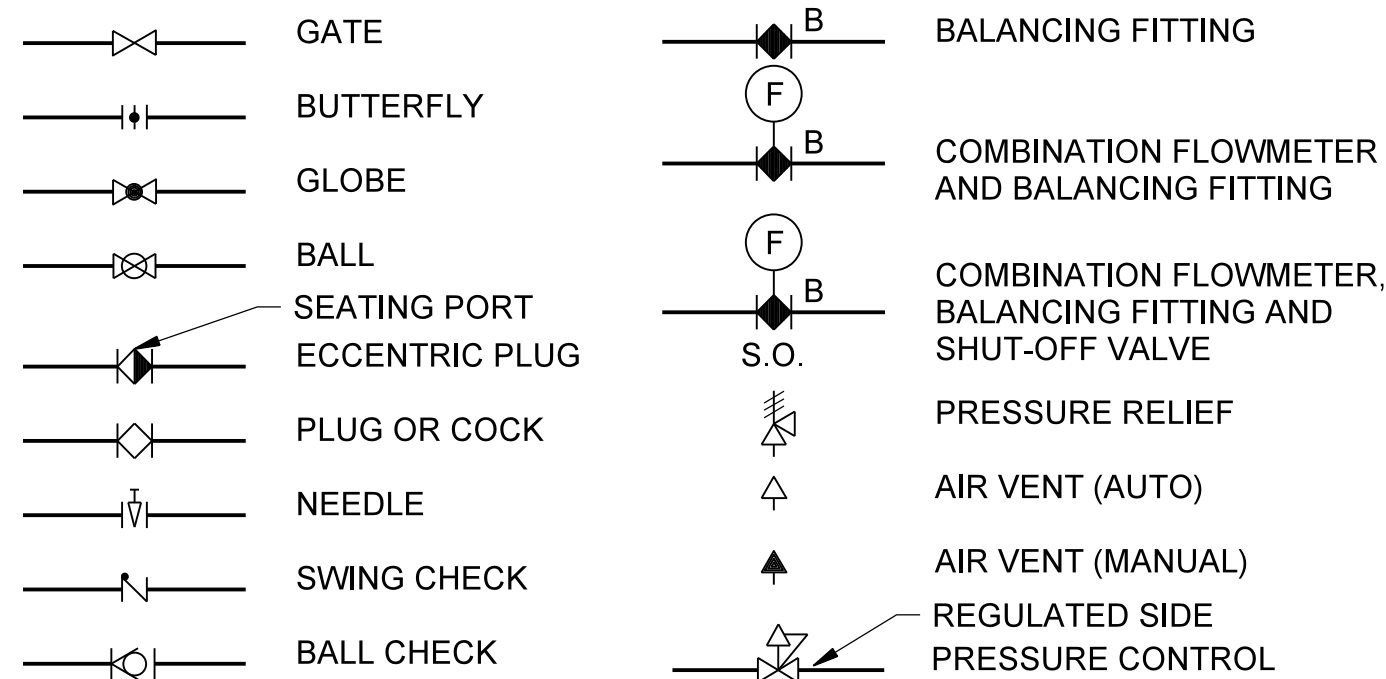
HEATING, VENTILATING, AND AIR CONDITIONING SYMBOLS



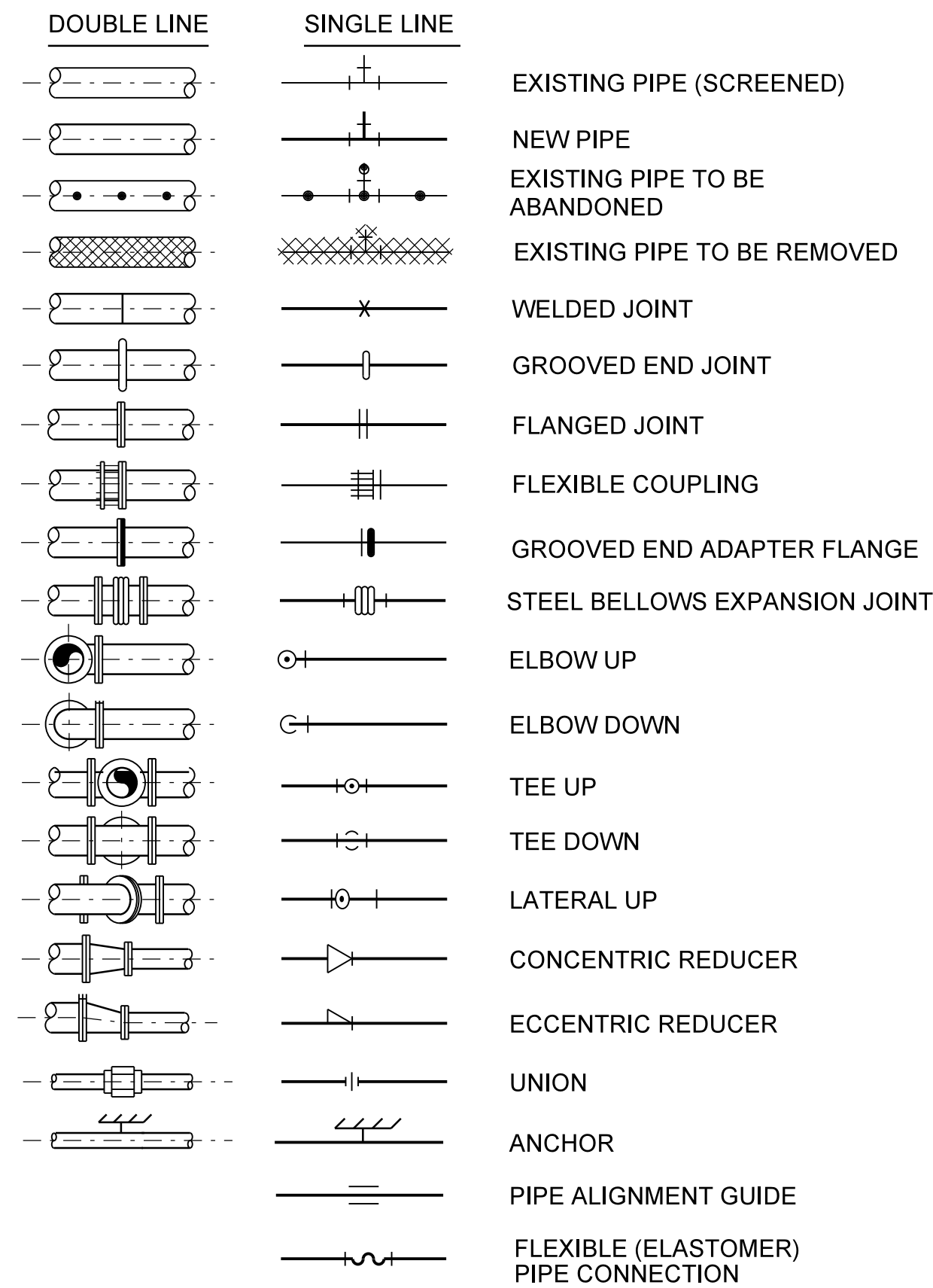
EQUIPMENT NOMENCLATURE



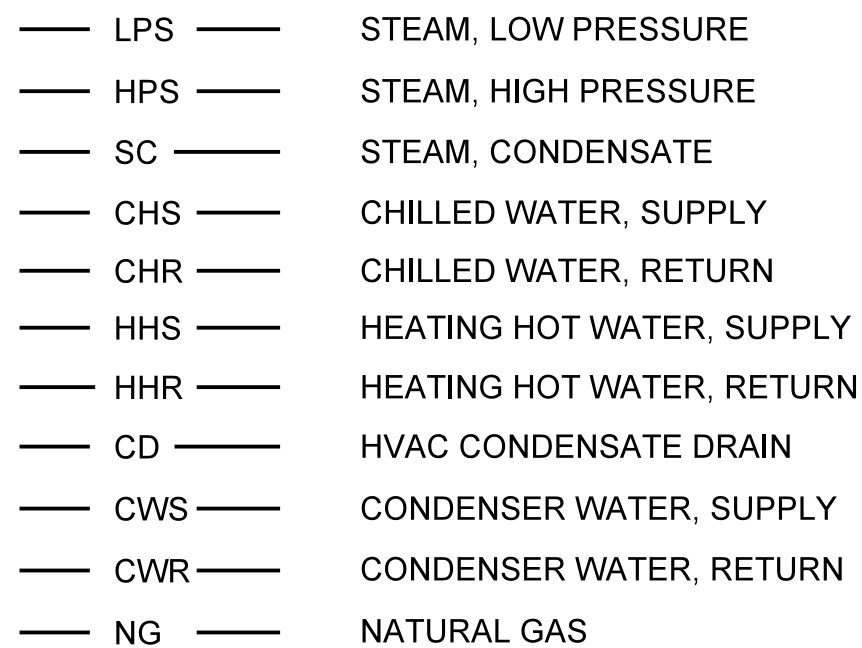
VALVE SYMBOLS



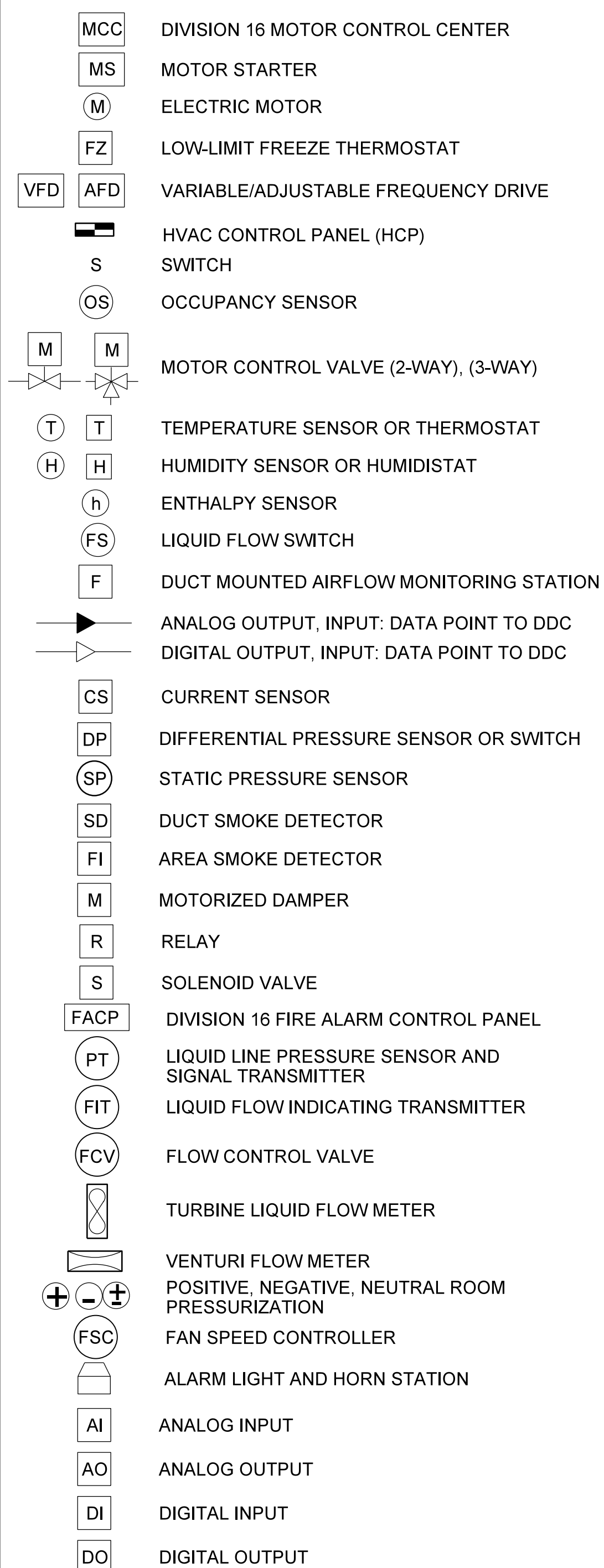
HVAC PIPING SYMBOLS



PIPING FLOW STREAM IDENTIFICATION



HVAC CONTROLS SYMBOLS



HVAC GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS ON THIS SHEET MAY NOT APPEAR ON THE PLANS.
2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS, SEE OTHER LEGENDS FOR PLUMBING, MECHANICAL, STRUCTURAL/ AND ARCHITECTURAL.

ABBREVIATIONS AND EQUIPMENT ID

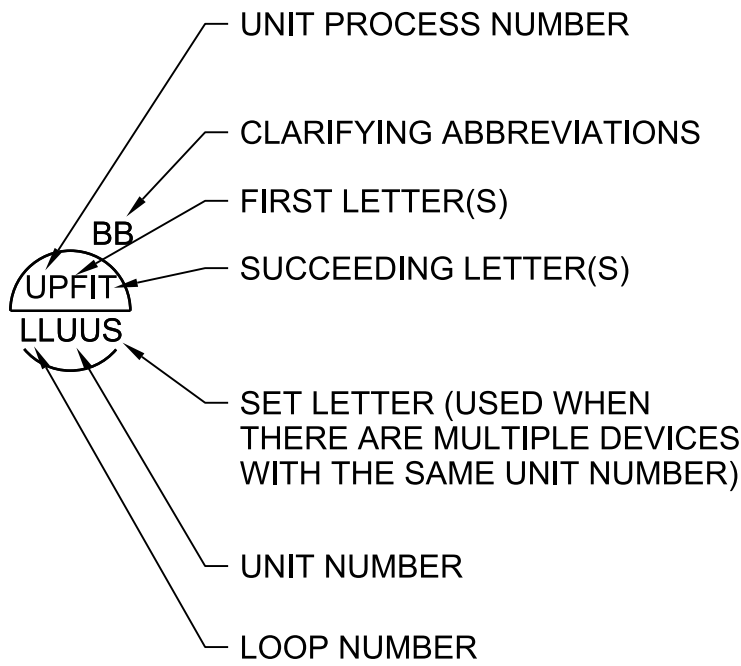
ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
AS	CENTRIFUGAL AIR SEPARATOR
BD	BALANCING DAMPER
BDD	BACKDRAFT DAMPER (GRAVITY)
BO	BOILER
CC	COOLING COIL
CT	COOLING TOWER
CD	CEILING DIFFUSER
CF	CEILING FAN
CMF	CHEMICAL FEEDER
CRU	CONDENSATE RETURN UNIT
CSU	CEILING-MOUNTED AIR SUPPLY UNIT
CU	CONDENSING UNIT
DL	DRUM LOUVER DIFFUSER
EA	EXHAUST AIR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
ET	DIAPHRAGM EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FC	FLEXIBLE CONNECTION, FAIL CLOSE
FCU	FAN-COIL UNIT
FD	FIRE DAMPER
FO	FAIL OPEN
FF	FINAL FILTER
FRP	FIBERGLASS REINFORCED PLASTIC
FSD	FIRE SMOKE DAMPER
FT	FINNED-TUBE BASEBOARD HEATER
FZ	FREEZE STAT
GUM	GLYCOL AUTO FEEDER
HC	HEATING COIL
HCP	HVAC CONTROL PANEL
HGR	HOT GLYCOL RETURN
HGS	HOT GLYCOL SUPPLY
HTP	HEAT TRANSFER PACKAGE
HVU	HEATING AND VENTILATING UNIT
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
IRH	INFRARED HEATERS
JD	JET DIFFUSER
MAU	MAKEUP AIR UNIT
MB	MIXING BOX
MD	MOTORIZED DAMPER
ML	MOTORIZED LOUVER
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED-BLADE DAMPER (MANUAL)
OIT	OPERATOR INTERFACE TERMINAL
OS	OCCUPANCY SENSOR
OSA	OUTSIDE AIR
PA	PRESSURIZATION AIR
PCV	PRESSURE-CONTROL VALVE
PF	PREFILTER
PHC	PREHEAT COIL
PTAC	PACKAGED TERMINAL AC UNIT
PTS	PITOT-TUBE TESTING STATION
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RGH	RADIANT GAS-FIRED HEATING SYSTEM
RL	REFRIGERANT LIQUID PIPE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION PIPE
RV	ROOF VENTILATOR
SA	SOUND ATTENUATOR, SUPPLY AIR
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
TG	TRANSFER GRILLE
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME UNIT
WSHP	WATER SOURCE HEAT PUMP

[illegible]

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INSTRUMENT IDENTIFICATION

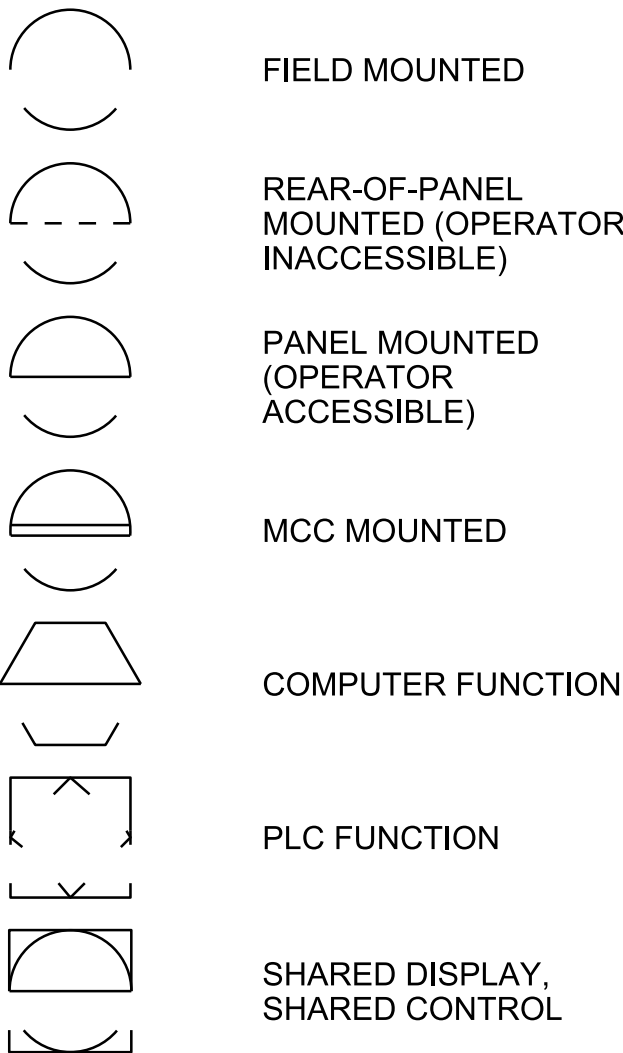
EXAMPLE SYMBOLS



DIGITAL SYSTEM INTERFACES

- ▲ ANALOG INPUT
- ▼ ANALOG OUTPUT
- △ DISCRETE INPUT
- ▽ DISCRETE OUTPUT

GENERAL INSTRUMENT OR FUNCTIONAL SYMBOLS



TRANSDUCERS

A	ANALOG	I	CURRENT
D	DIGITAL	P	PNEUMATIC
E	VOLTAGE	PF	PULSE FREQUENCY
F	FREQUENCY	PD	PULSE DURATION
H	HYDRAULIC	R	RESISTANCE

EXAMPLE



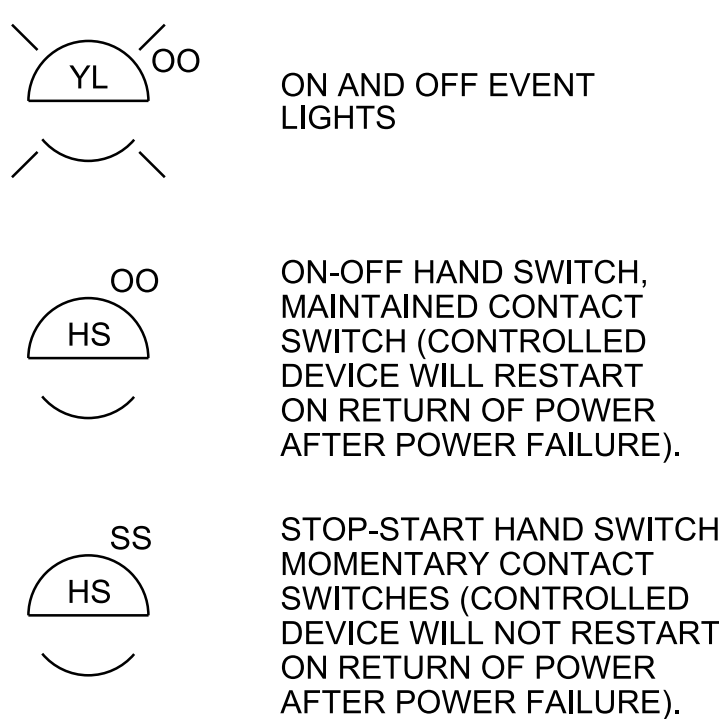
ACCESSORY DEVICES

A	ALARM
C	CONTROLLER
I	INDICATOR
R	RECORDER
S	SWITCH
T	TRANSMITTER
X	UNCLASSIFIED

EXAMPLE



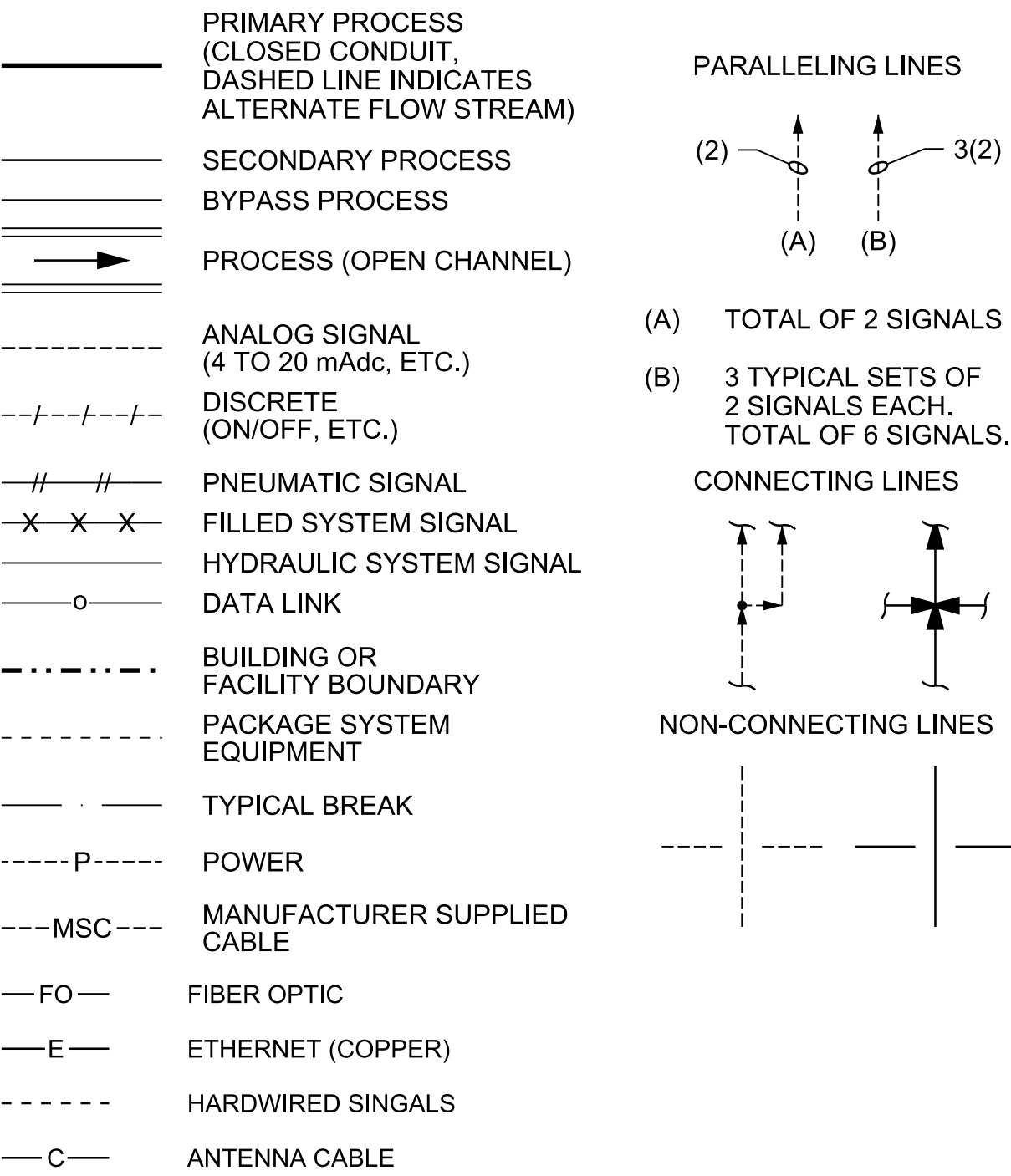
SPECIAL CASES



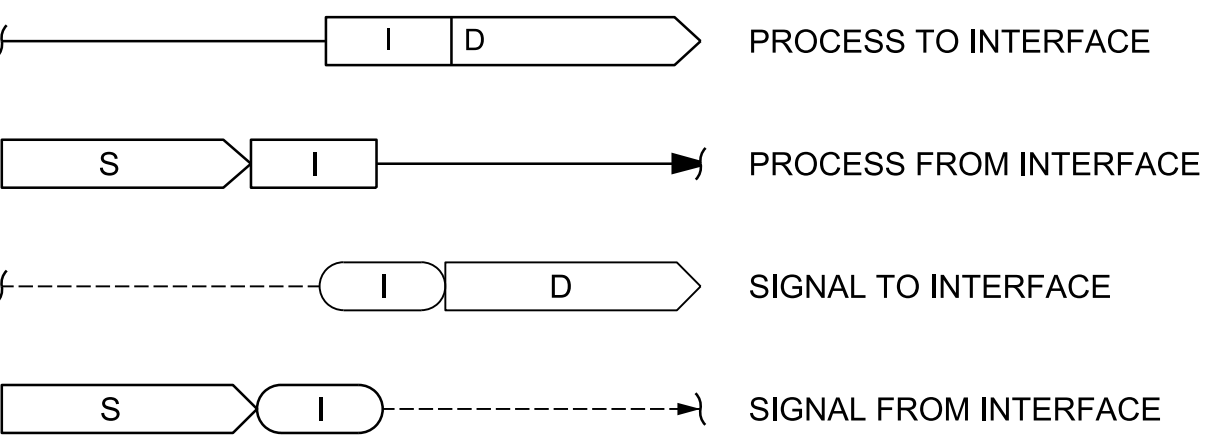
GENERAL NOTES

- COMPONENTS AND PANELS SHOWN WITH A DIAMOND (◆) ARE TO BE PROVIDED UNDER SECTION 40 90 01, INSTRUMENTATION AND CONTROLS FOR PROCESS SYSTEMS.
- COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (*) ARE TO BE PROVIDED AS PART OF A PACKAGE SYSTEM.
- COMPONENTS AND PANELS SHOWN WITH A DOUBLE ASTERISK (**) ARE TO BE PROVIDED UNDER DIVISION 26, ELECTRICAL.
- THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF THIS INFORMATION MAY BE USED ON THE PROJECT.

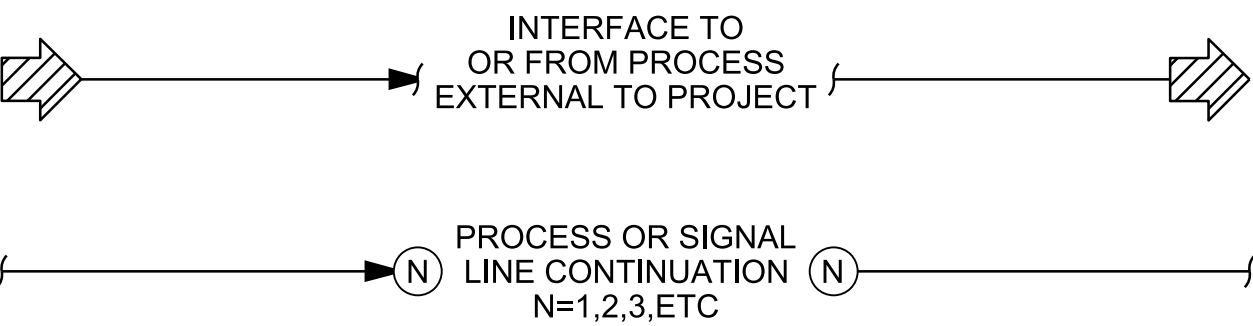
LINE LEGEND



INTERFACE SYMBOLS



- I INTERFACE IDENTIFIER
- D DESTINATION DRAWING NO.
- S SOURCE DRAWING NO.



SELF CONTAINED VALVE & EQUIPMENT TAG NUMBERS

W-D-X-Y		
W	UNIT PROCESS	
D	ARV	AIR RELEASE VALVE
	CONV	CONVEYOR
	E	EJECTOR
	ECP	ENGINE CONTROL PANEL
	G	GATE
	GEN	ENGINE GENERATOR
	M	MECHANICAL EQUIPMENT
	P	PUMP
	SSH	SAFETY SHOWER
	SWGR	SWITCHGEAR
	T	TANK
	X	LOOP NUMBER
Y	UNIT SYMBOL	

ABBREVIATIONS & LETTER SYMBOLS

AC	ALTERNATING CURRENT
AFD	ADJUSTABLE FREQUENCY DRIVE
AM	AUTO-MANUAL
CAM	COMPUTER-AUTO-MANUAL
CCS	CENTRAL CONTROL SYSTEM
CL ₂ etc.	CHLORINE (TYPICAL: USE STANDARD CHEMICAL ELEMENT ABBREVIATIONS)
CM	COMPUTER-MANUAL
COD	CHEMICAL OXYGEN DEMAND
COM	- COMMUNICATION MODULE
CP-X	CONTROL PANEL NO. X
DC	DIRECT CURRENT
DCS	DISTRIBUTED CONTROL SYSTEM
DCU	DISTRIBUTED CONTROL UNIT
DLR	DEVICE LEVEL RING
DO	DISSOLVED OXYGEN
ENS	ETHERNET SWITCH
FCL ₂	FREE CHLORINE RESIDUAL
FOS	FAST-OFF-SLOW
FOSA	FAST-OFF-SLOW-AUTO
FOSR	FAST-OFF-SLOW-REMOTE
FP-W-X	FIELD PANEL NO. WX (W=UNIT PROCESS NUMBER X=PAGE NUMBER)

FR	FORWARD-REVERSE
FOT	FIBER OPTIC TRANSCEIVER
FWD	FORWARD
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HMI	HUMAN MACHINE INTERFACE
I/O	INPUT/OUTPUT
ISR	INTRINSICALLY SAFE RELAY
LCP	LOCAL CONTROL PANEL
LEL	LOWER EXPLOSIVE LIMIT
LOS	LOCKOUT STOP
LR	LOCAL-REMOTE
MA	MANUAL-AUTO
MC	MODULATE-CLOSE
MCC-X	MOTOR CONTROL CENTER NO. X
MSC	MANUFACTURER SUPPLIED CABLE
OC	OPEN-CLOSE(D)
OCA	OPEN-CLOSE-AUTO
OCR	OPEN-CLOSE-REMOTE
OIU	OPERATOR INTERFACE UNIT
OO	ON-OFF
OOA	ON-OFF-AUTO
OOR	ON-OFF-REMOTE
ORP	OXIDATION REDUCTION POTENTIAL
OSC	OPEN-STOP-CLOSE
PAC	PROGRAMMABLE AUTOMATION CONTROLLER

pH	HYDROGEN ION CONCENTRATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
PP	PATCH PANEL
PROC	PROCESSOR MODULE
PS	POWER SUPPLY
REV	REVERSE
RIO	REMOTE I/O UNIT
RM	REDUNDANCY MODULE
RM-X	REMOTE MULTIPLEXING MODULE NO. X
RTU-X	REMOTE TELEMETRY UNIT NO. X
SA	SAMPLE
SF	SLOWER-FASTER
SS	START-STOP
SSC	SUPERVISORY SET POINT CONTROL
SSX	SURGE SUPPRESSION, TYPE X
TCL ₂	TOTAL CHLORINE RESIDUAL
TOC	TOTAL ORGANIC CARBON
TOD	TOTAL OXYGEN DEMAND
TURB	TURBIDITY
UPS	UNINTERRUPTIBLE POWER SUPPLY
VCP	VENDOR CONTROL PANEL
VHC	VOLATILE HYDROCARBONS
VIB	VIBRATION
Δ	DIFFERENCE
Σ	SUM
x	MULTIPLY
÷	DIVIDE
F(X)	CHARACTERIZED
X ¹	RAISED TO THE Nth POWER
√	SQUARE ROOT
AVG	AVERAGE
1:1	REPEAT OR BOOST
>	SELECT HIGHEST SIGNAL
≠	SELECT LOWEST SIGNAL
BIAS	BIAS
%	GAIN OR ATTENUATE

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

GENERAL

INSTRUMENTATION AND CONTROLS
LEGEND
SHEET 1

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 01-G-0021

SHEET 024 of 270

APVD BY

APVD

CHK

DR

NO.

DATE

DGN

G GRAY

A PASTRANA

C WILSON

G GRAY

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CONFORMED DOCUMENTS

NTS

DATE	MAY 202
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NS I
DR II

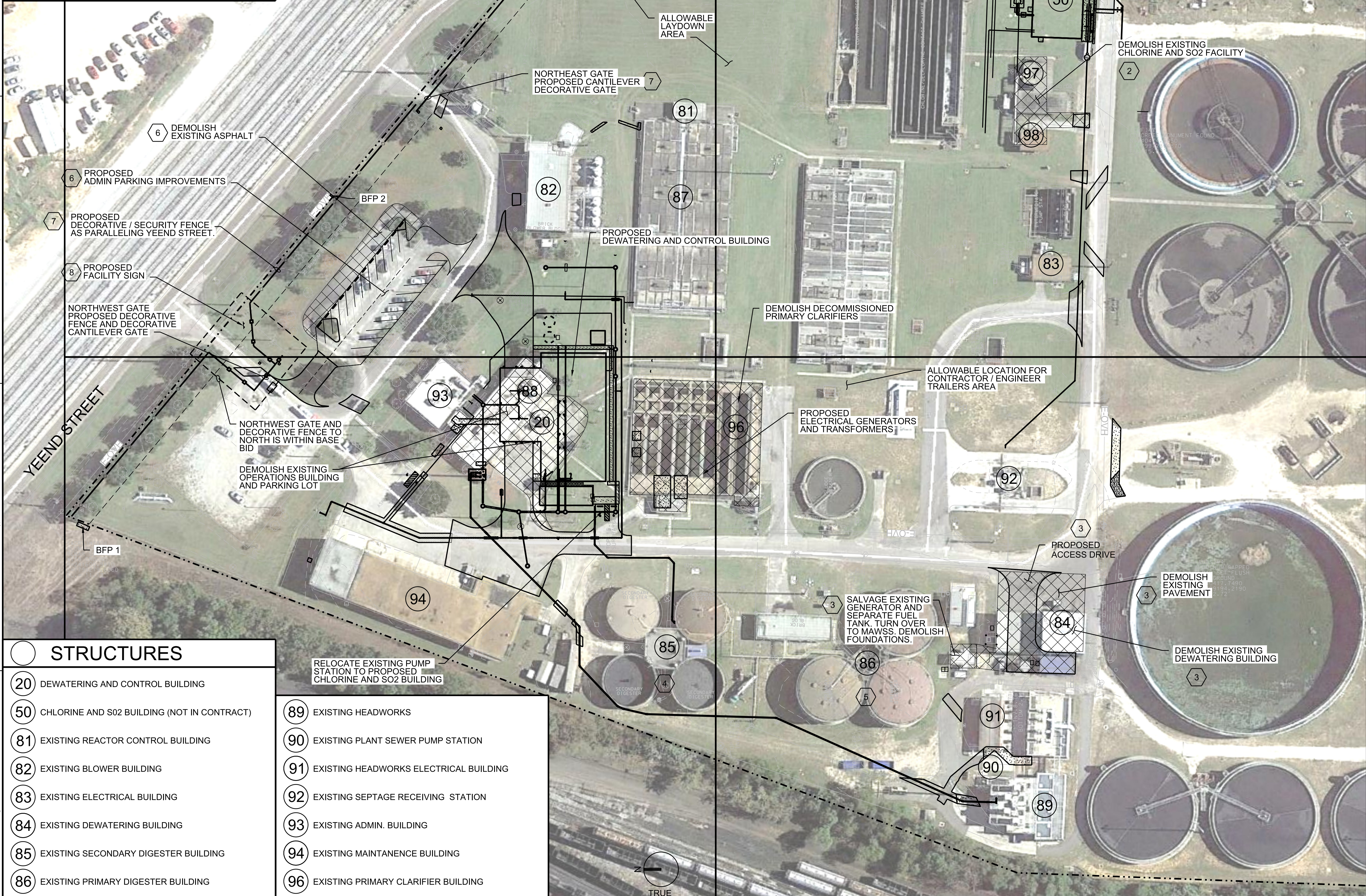
OF

A	1		2		3		4		5		6		SECURITY GENERAL NOTES																																		
													1. DO NOT SCALE FROM DRAWINGS. THESE DRAWINGS ARE REPRESENTATIVE FOR THE FLOOR PLANS. FIELD VERIFY ALL REQUIRED DIMENSIONS PRIOR TO INSTALLATION.																																		
													2. ALL SECURITY EQUIPMENT SHALL BE APPROVED FOR INSTALLATION BY THE CITY REPRESENTATIVE.																																		
													3. EXACT LOCATION AND MOUNTING REQUIREMENTS FOR ALL SECURITY EQUIPMENT SHALL BE REVIEWED IN THE FIELD AND COORDINATED WITH THE CITY REPRESENTATIVE.																																		
													4. CONTRACTOR SHALL FIRE SEAL ALL CORES AND PENETRATIONS ASSOCIATED WITH THE SECURITY SCOPE OF THE WORK FOR THIS PROJECT. FIRE SEAL SHALL MEET OR EXCEED THE FIRE RATING OF THE MEDIA BEING PENETRATED.																																		
													5. ALL CONDUIT, RACEWAYS, PULLBOX AND ASSOCIATED HARDWARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DIVISION 26 SPECIFICATIONS.																																		
													6. UNLESS OTHERWISE NOTED ALL SECURITY RELATED ELECTRIC LOCK HARDWARE SHALL BE PROVIDED BY OTHERS.																																		
													7. REQUEST TO EXIT DEVICES DO NOT PRECLUDE EXITING FROM THE INTERIOR. ALL EXISTS ARE FREE EGRESS AND SHALL NOT REQUIRE THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT TO EXIT.																																		
													8. POWER AND COMMUNICATION WIRING SHALL BE PROVIDED IN SEPARATE CONDUITS AS SHOWN. MAINTAIN 12" SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS WHEN PARALLEL RUNS EXCEED 10' IN LENGTH																																		
													9. CONTRACTOR TO PROVIDE ALL CABLING, CONNECTIONS AND DEVICES AS SHOWN ON THE DRAWINGS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.																																		
													10. CONTRACTOR TO UNIQUELY TAG ALL ADDRESSABLE SECURITY SYSTEM COMMON WITH AN EQUIPMENT IDENTIFICATION TAG, PER THE SPECIFICATIONS AND EQUIPMENT NUMBERING SYSTEM NOMENCLATURE SHOWN ON THIS SHEET.																																		
													SECURITY WIRE AND CABLE - REFERENCE																																		
													(EXCERPT FROM SECTION 28 05 13)																																		
													CABLE TYPE A: SMARTWIRE MODEL 4461140 (LATEST VERSION), ONE 18 AWG FOUR CONDUCTOR NON-SHIELDED, ONE 22 AWG, SIX CONDUCTOR SHIELDED, ONE 22 AWG, FOUR CONDUCTOR NON-SHIELDED, AND ONE 22 AWG, TWO CONDUCTOR NON-SHIELDED, OR APPROVED EQUAL.																																		
													CABLE TYPE B: WEST PENN MODEL AQC3186 (LATEST VERSION), 18 AWG, SIX CONDUCTOR TWISTED, SHIELDED, WATERBLOCKED CONSTRUCTION OR APPROVED EQUAL.																																		
													CABLE TYPE D: WEST PENN MODEL 4246 (BLACK JACKET) (LATEST VERSION), 23 AWG, FOUR PAIR (CAT 6), OR APPROVED EQUAL.																																		
													CABLE TYPE E: WEST PENN MODEL M57622 (BLACK JACKET) (LATEST VERSION), 24 AWG, FOUR PAIR (CAT 6), WATERBLOCKED CONSTRUCTION OR APPROVED EQUAL.																																		
													CABLE TYPE K: WEST PENN MODEL AQC439 (LATEST VERSION), 22 AWG, FOUR PAIR, SHIELDED, WATERBLOCKED CONSTRUCTION, OR APPROVED EQUAL.																																		
													EQUIPMENT NUMBERING SYSTEM																																		
<div><div>SECURITY PANEL OR NETWORK SWITCH NUMBER SITE</div><div>XX</div><div>##</div><div>YY</div><div>POINT NUMBER</div></div> <div><div>ABBR</div><div>20 - DEWATERING AND CONTROL BUILDING</div><div>50 - CHLORINE/SO2 BUILDING</div><div>82 - BLOWER BUILDING</div><div>83 - ELECTRICAL/GENERATOR BUILDING</div><div>91 - HEADWORKS</div><div>93 - ADMINISTRATION BUILDING</div><div>94 - MAINTENANCE BUILDING</div><div>CP - CAMERA POLE</div><div>POINT #: 01-99</div><div>PANEL OR SWITCH #: 0-99</div></div>																																															
ACAMS AFF APPROX												ACCESS CONTROL & ALARM MONITOR SYSTEM ABOVE FINISHED FLOOR APPROXIMATE												SYMBOL												DESCRIPTION											
BATT												BATTERY																								SHEET NOTE											
CAM C C CDR CO CTL												CAMERA CENTERLINE CONDUIT CARD READER CONDUIT ONLY CONTROL																								DEVICE DETAIL CALL OUT											
																																				ENLARGED SECTION/DETAIL CALLOUT											
DS												DOOR STATUS CONTACT																								DOOR NUMBER											
(E) EA ELC ELECT EPB EXST												EXISTING EACH ELECTRIFIED MORTISE LOCK ELECTRICAL ELECTRICAL PULL BOX EXISTING																								CONDUIT SURFACE MOUNTED											
																																				CONDUIT UNDERGROUND											
																																				CONDUIT CONTINUATION											
																																				CONDUIT STUB											
FBO FC FDU FO FOC FOPP												FURNISHED BY OTHERS FLEX CONDUIT FIBER OPTIC DISTRIBUTION UNIT FIBER OPTIC FIBER OPTIC MEDIA CONVERTER FIBER OPTIC PATCH PANEL																								SECURITY EQUIPMENT ENCLOSURE											
GO GRS												GATE OPERATOR GALVANIZED RIGID STEEL																								JUNCTION BOX SIZED PER NEC											
IC IFP IN												INTERCOM INTELLIGENT FIELD PROCESSOR INPUT																								ELECTRICAL PULLBOX											
JB												JUNCTION BOX																								SECURITY PULLBOX											
KPD												KEYPAD																								SURGE PROTECTION DEVICE											
LMN												LATCH MONITOR																								CIRCUIT BREAKER											
MIN ML MP MS MTD												MINIMUM MAGNETIC LOCK MECHANICAL PANIC ALARM MOTION SENSOR MOTION SENSOR																								JUNCTION BOX SIZED PER DETAIL											
(N) NEC NIC NTS												NEW NATIONAL ELECTRICAL CODE NOT IN CONTRACT NOT TO SCALE																								ACCESS CONTROLLER											
OH OUT												OPPOSITE HAND OUTPUT																								CARD READER											
PoE PR PS PTZ PVC												POWER-OVER-ETHERNET PAIR POWER SUPPLY PAN-TILT-ZOOM CAMERA POLYVINYL CHLORIDE																								DOOR STATUS CONTACT											
																																				DOOR ELECTRO-MAGNETIC LOCK											
																																				DOOR ELECTRO-STRIKE LOCK											
																																				MECHANICAL PANIC											
																																				REQUEST TO EXIT SWITCH											
																																				KEYPAD											
																																				TAMPER SWITCH											
																																				GATE OPERATOR											
																																				INTERCOM											
																																				LIMIT SWITCH											
																																				MOTION SENSOR											
																																				MAGNETIC LOCK											
																																				PEDESTAL											
																																				PAN-TILT-ZOOM CAMERA											
																																				FIXED SECURITY CAMERA											
																																				FIXED PROCESS CAMERA											
																																				CAMERA POLE											

1. WORK ON THIS SHEET REFLECTS BASE BID WORK AS WELL AS ALL ADDITIVE ALTERNATES DESCRIBED IN THE SUMMARY OF WORK IN THE CONTRACT DOCUMENTS.

2. TOPOGRAPHIC INFORMATION SHOWN IN THIS PLAN SET WAS PROVIDED BY MCCORRY & WILLIAMS WITH LIMITED FIELD VERIFICATION BY JACOBS. CONTRACTOR SHALL BRING ANY DEVIATIONS TO THE ATTENTION OF THE ENGINEER UPON THEIR DISCOVERY.

3. SEE SHEETS 05-C-1001 THROUGH 05-C-1004 FOR DETAILED DEMOLITION NOTES.



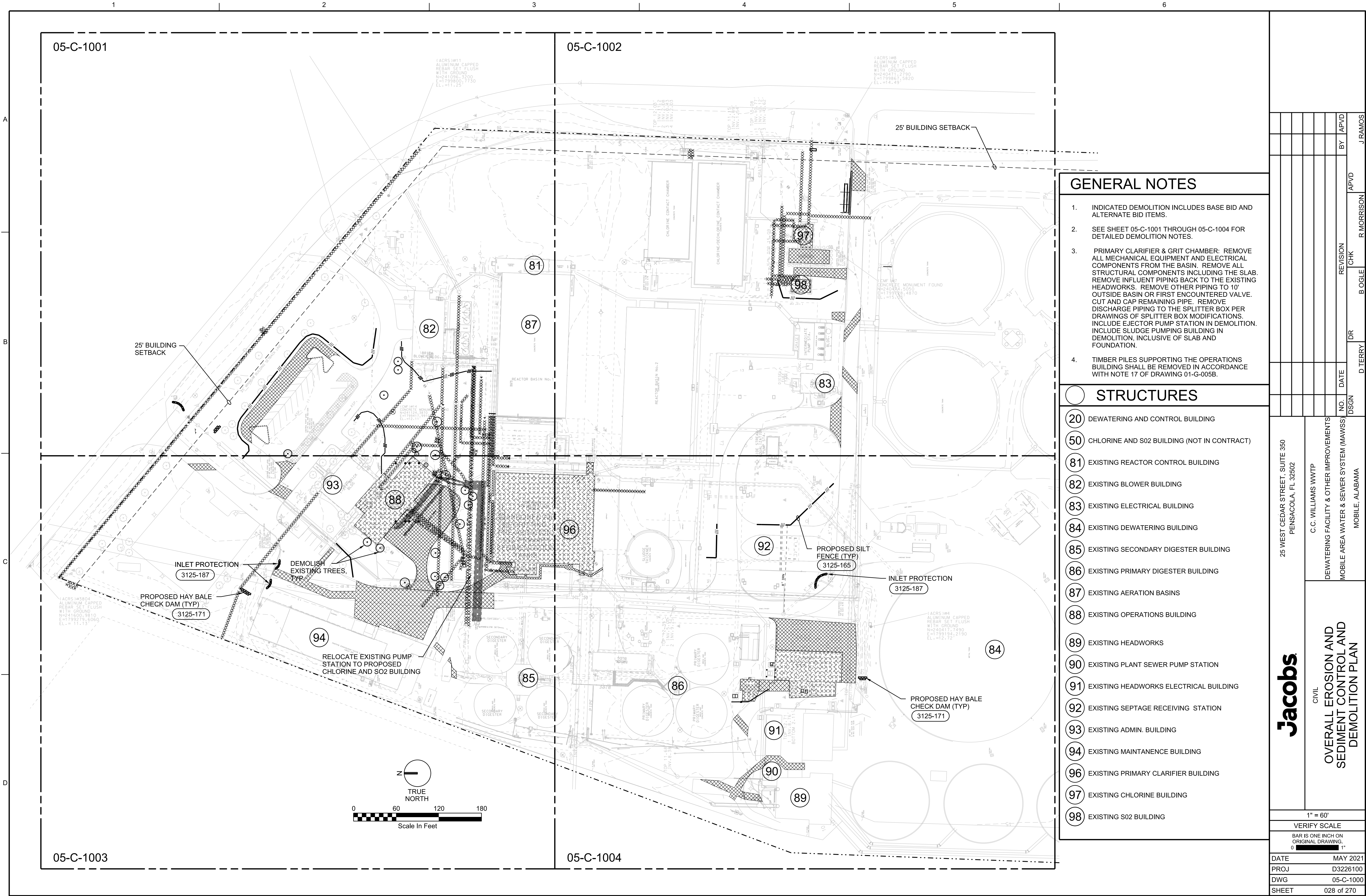
- STRUCTURES**
- 20 DEWATERING AND CONTROL BUILDING
 - 50 CHLORINE AND SO2 BUILDING (NOT IN CONTRACT)
 - 81 EXISTING REACTOR CONTROL BUILDING
 - 82 EXISTING BLOWER BUILDING
 - 83 EXISTING ELECTRICAL BUILDING
 - 84 EXISTING DEWATERING BUILDING
 - 85 EXISTING SECONDARY DIGESTER BUILDING
 - 86 EXISTING PRIMARY DIGESTER BUILDING
 - 87 EXISTING AERATION BASINS
 - 88 EXISTING OPERATIONS BUILDING
 - 89 EXISTING HEADWORKS
 - 90 EXISTING PLANT SEWER PUMP STATION
 - 91 EXISTING HEADWORKS ELECTRICAL BUILDING
 - 92 EXISTING SEPTAGE RECEIVING STATION
 - 93 EXISTING ADMIN. BUILDING
 - 94 EXISTING MAINTENANCE BUILDING
 - 96 EXISTING PRIMARY CLARIFIER BUILDING
 - 97 EXISTING CHLORINE BUILDING
 - 98 EXISTING SO2 BUILDING

- SHEET KEYNOTES**
- ADDITIVE ALTERNATE #1 (AA1) (N.I.C.)
 - ADDITIVE ALTERNATE #2 (AA2) (N.I.C.)
 - ADDITIVE ALTERNATE #3 (AA3) (N.I.C.)
 - ADDITIVE ALTERNATE #4 & #4A (AA4 & AA4A) (N.I.C.)
 - ADDITIVE ALTERNATE #5 (AA5) (N.I.C.)
 - ADDITIVE ALTERNATE #6 (AA6) (N.I.C.)
 - ADDITIVE ALTERNATE #7 (AA7) (N.I.C.)
 - ADDITIVE ALTERNATE #8 (AA8) (N.I.C.)

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)		MOBILE, ALABAMA	
JACOBS		CIVIL		OVERALL SITE PLAN	
1" = 60'		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021	PROJ	D3226100	DWG	05-C-0001
SHEET	027 of 270				

NO.	DATE	DR	CHK	REVISION	APVD	BY	APVD
		D TERRY	B OGLE			J RAMOS	
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CONFORMED DOCUMENTS



GENERAL NOTES

- 1. INDICATED DEMOLITION INCLUDES BASE BID AND ALTERNATE BID ITEMS.
- 2. SEE SHEET 05-C-1001 THROUGH 05-C-1004 FOR DETAILED DEMOLITION NOTES.
- 3. PRIMARY CLARIFIER & GRIT CHAMBER: REMOVE ALL MECHANICAL EQUIPMENT AND ELECTRICAL COMPONENTS FROM THE BASIN. REMOVE ALL STRUCTURAL COMPONENTS INCLUDING THE SLAB. REMOVE INFLUENT PIPING BACK TO THE EXISTING HEADWORKS. REMOVE OTHER PIPING TO 10' OUTSIDE BASIN OR FIRST ENCOUNTERED VALVE. CUT AND CAP REMAINING PIPE. REMOVE DISCHARGE PIPING TO THE SPLITTER BOX PER DRAWINGS OF SPLITTER BOX MODIFICATIONS. INCLUDE EJECTOR PUMP STATION IN DEMOLITION. INCLUDE SLUDGE PUMPING BUILDING IN DEMOLITION, INCLUSIVE OF SLAB AND FOUNDATION.
- 4. TIMBER PILES SUPPORTING THE OPERATIONS BUILDING SHALL BE REMOVED IN ACCORDANCE WITH NOTE 17 OF DRAWING 01-G-005B.

STRUCTURES

- 20 DEWATERING AND CONTROL BUILDING
- 50 CHLORINE AND SO2 BUILDING (NOT IN CONTRACT)
- 81 EXISTING REACTOR CONTROL BUILDING
- 82 EXISTING BLOWER BUILDING
- 83 EXISTING ELECTRICAL BUILDING
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- 94 EXISTING MAINTENANCE BUILDING
- 96 EXISTING PRIMARY CLARIFIER BUILDING
- 97 EXISTING CHLORINE BUILDING
- 98 EXISTING SO2 BUILDING

Jacobs

CIVIL
OVERALL EROSION AND
SEDIMENT CONTROL AND
DEMOLITION PLAN

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

DATE	MAY 2021
PROJ	D3226100
DWG	05-C-1000
SHEET	028 of 270

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D TERRY

DR

DGN

NO. DATE

REVISION

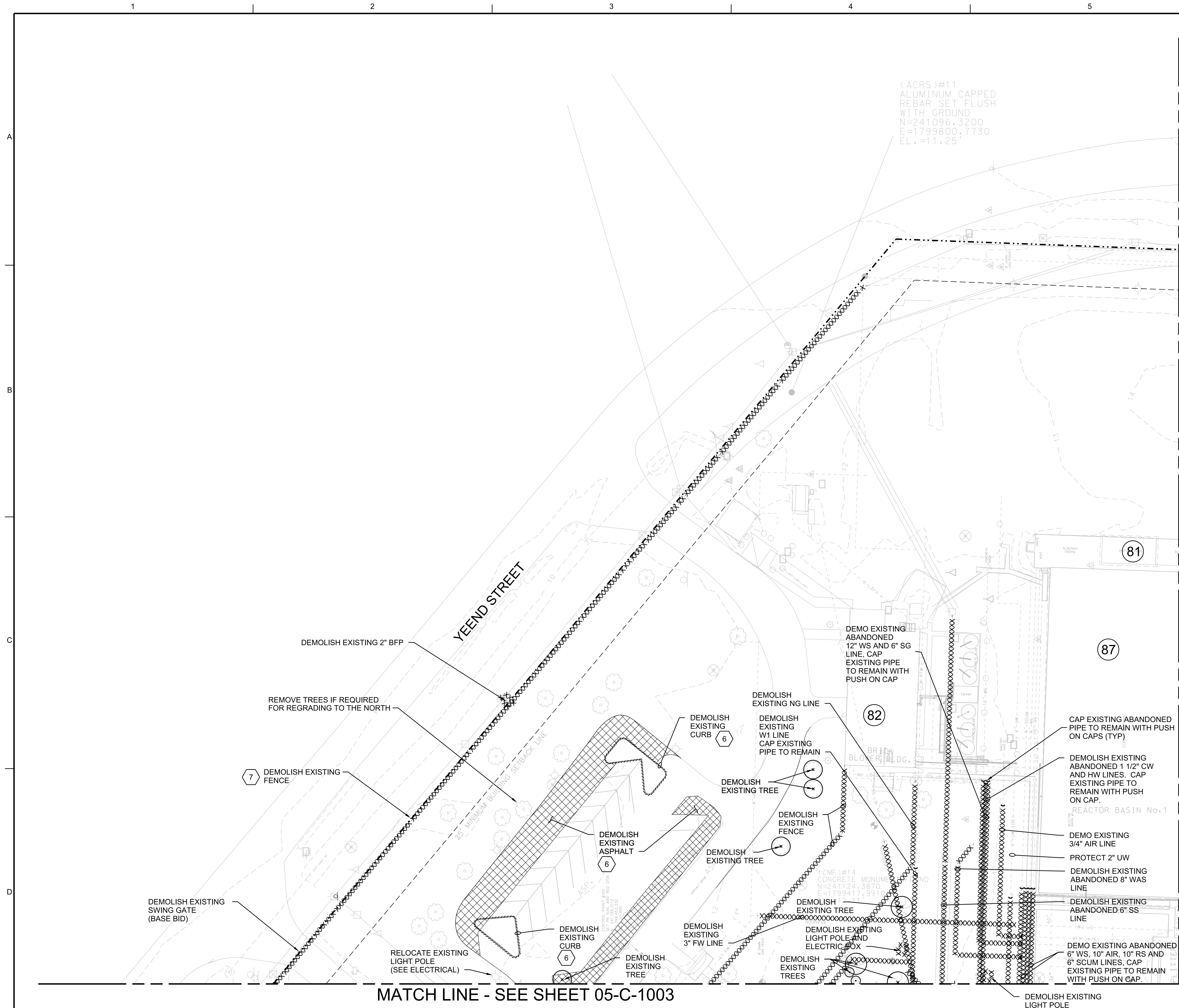
CHK

APVD

BY

J RAMOS

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GENERAL NOTES

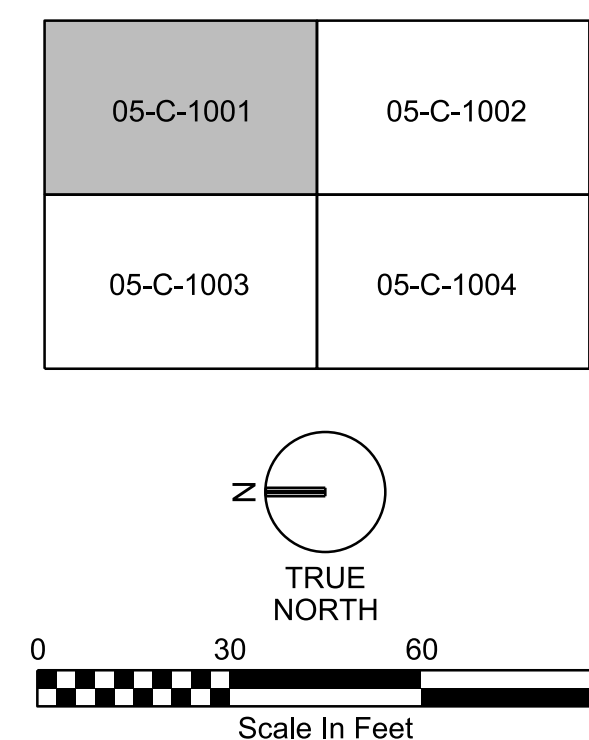
1. ALL WORK ON THIS SHEET IS INCLUDED IN THE BASE BID UNLESS OTHERWISE NOTED.
2. EROSION CONTROL MEASURES DEPICTED IN THESE PLANS SHALL BE CONSIDERED A MINIMUM. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A COMPLETE EROSION CONTROL PLAN AS WELL AS A CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) AND ADEM NPDES PERMIT CONSISTENT WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL MAINTAIN THOSE BEST MANAGEMENT PRACTICES THROUGHOUT THE DURATION OF CONSTRUCTION.

SHEET KEYNOTES

6. ADDITIVE ALTERNATE #6 (AA6) (NOT IN CONTRACT)
7. ADDITIVE ALTERNATE #7 (AA7) (NOT IN CONTRACT)

STRUCTURES

- 81 EXISTING REACTOR CONTROL BUILDING
- 82 EXISTING BLOWER BUILDING
- 87 EXISTING AERATION BASINS



MATCH LINE - SEE SHEET 05-C-1002

MATCH LINE - SEE SHEET 05-C-1003

Jacobs.

CIVIL
DEMOLITION PLAN - 1

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
MOBILE, ALABAMA

25 WEST CEDAR STREET, SUITE 350
PENSACOLA FL 32502

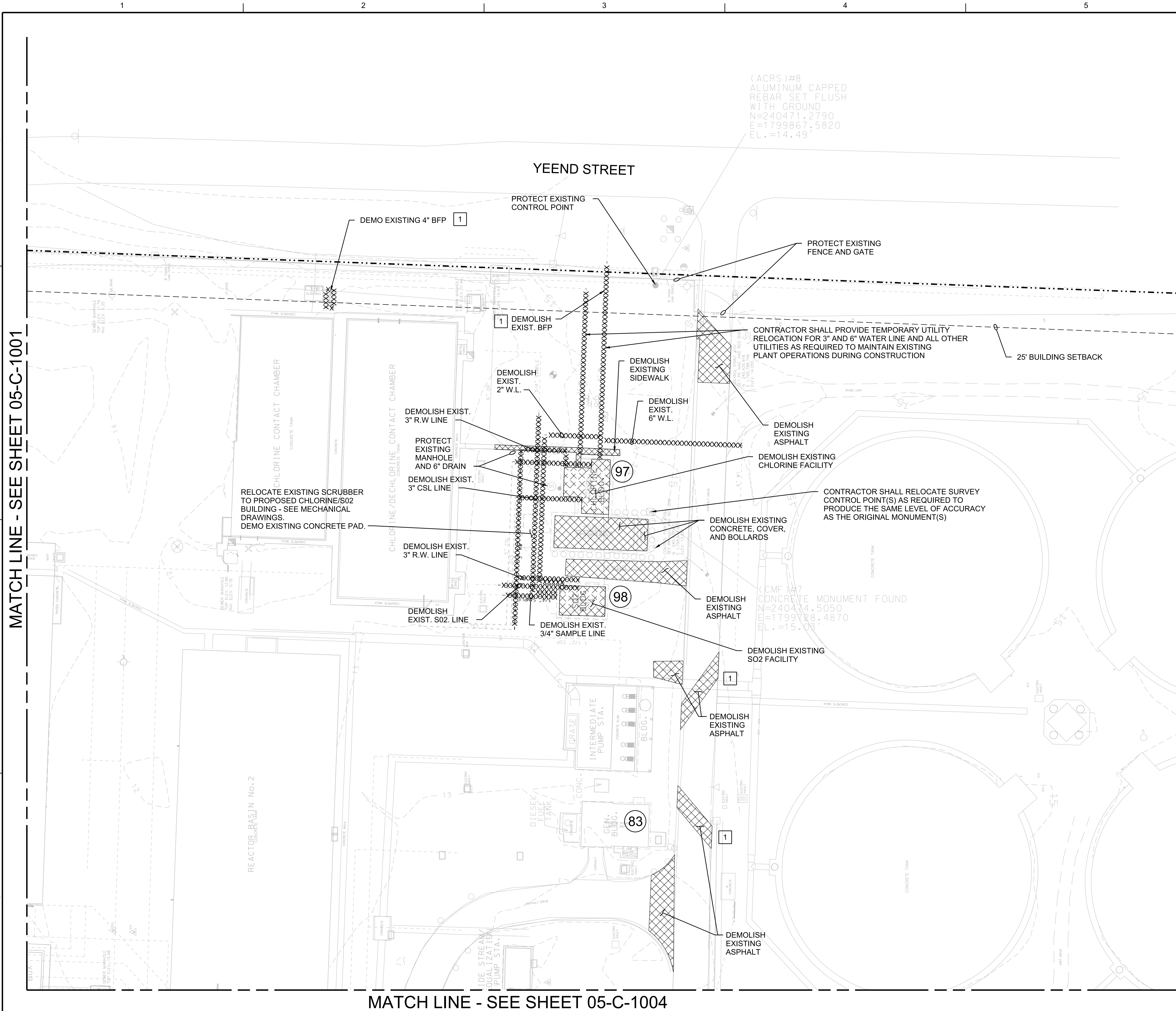
							J RAMOS
						APVD	
						BY	

	1	0	1
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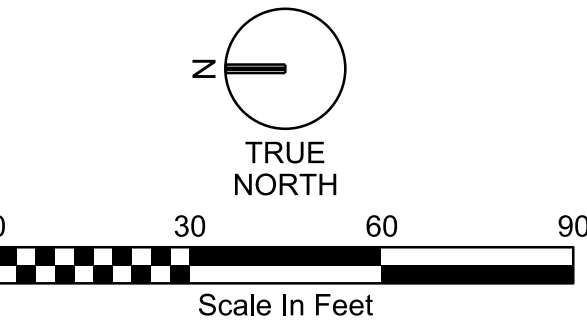
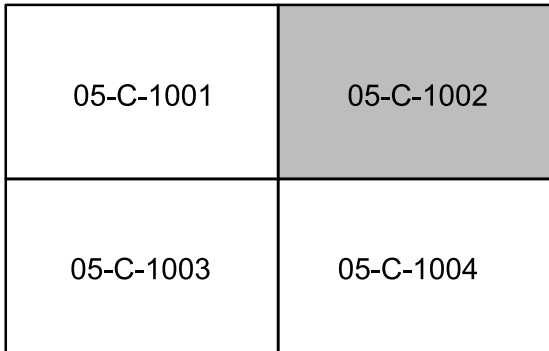
- 1. ALL WORK ON THIS SHEET IS INCLUDED IN ADDITIVE ALTERNATE #1 (AA1) UNLESS OTHERWISE NOTED.
- 2. ADDITIVE ALTERNATE #1 (AA1) IS NOT INCLUDED IN THIS CONTRACT.

SHEET KEYNOTES

- 1. INCLUDED WITHIN BASE BID

STRUCTURES

- 50 CHLORINE AND S02 BUILDING (NOT IN CONTRACT)
- 83 EXISTING ELECTRICAL BUILDING
- 97 EXISTING CHLORINE BUILDING
- 98 EXISTING S02 BUILDING



Jacobs

CIVIL
DEMOLITION PLAN - 2

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

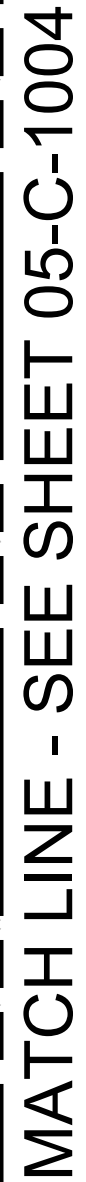
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWS)
MOBILE, ALABAMA

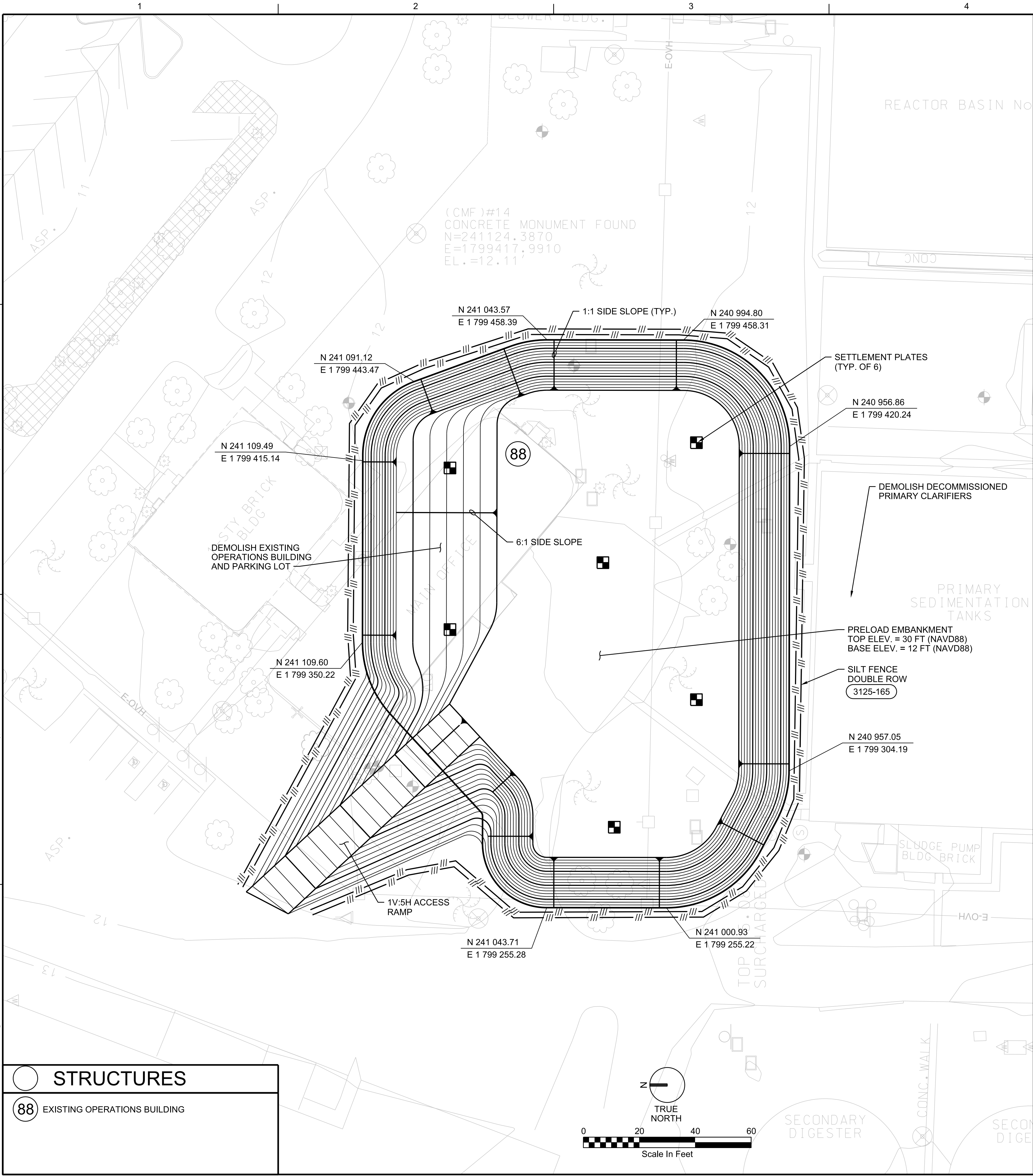
1" = 30'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 1"	
DATE	MAY 2021
PROJ	D3226100
DWG	05-C-1002
SHEET	030 of 270

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DR	CHK	REVISION	BY	APVD
D TERRY	R MORRISON			J RAMOS

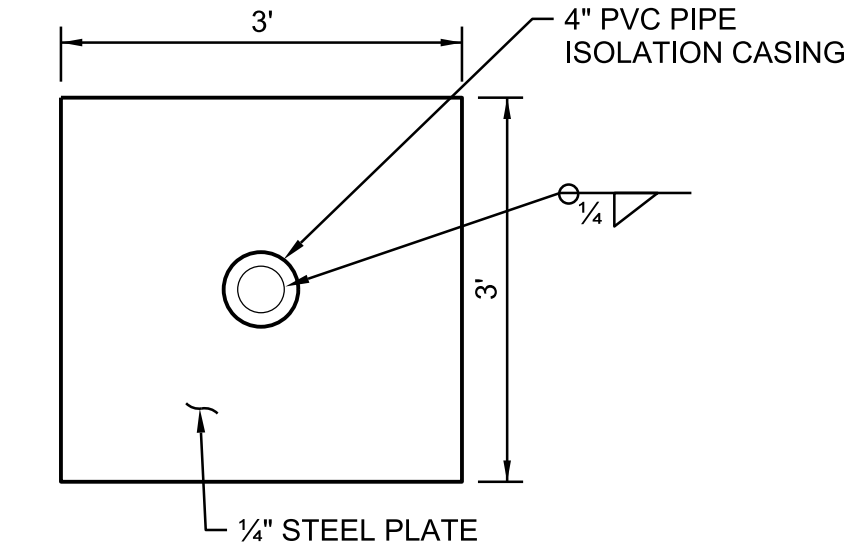




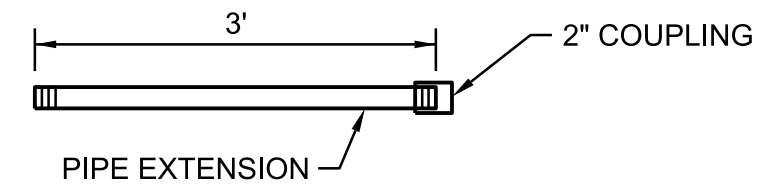
STRUCTURES

88

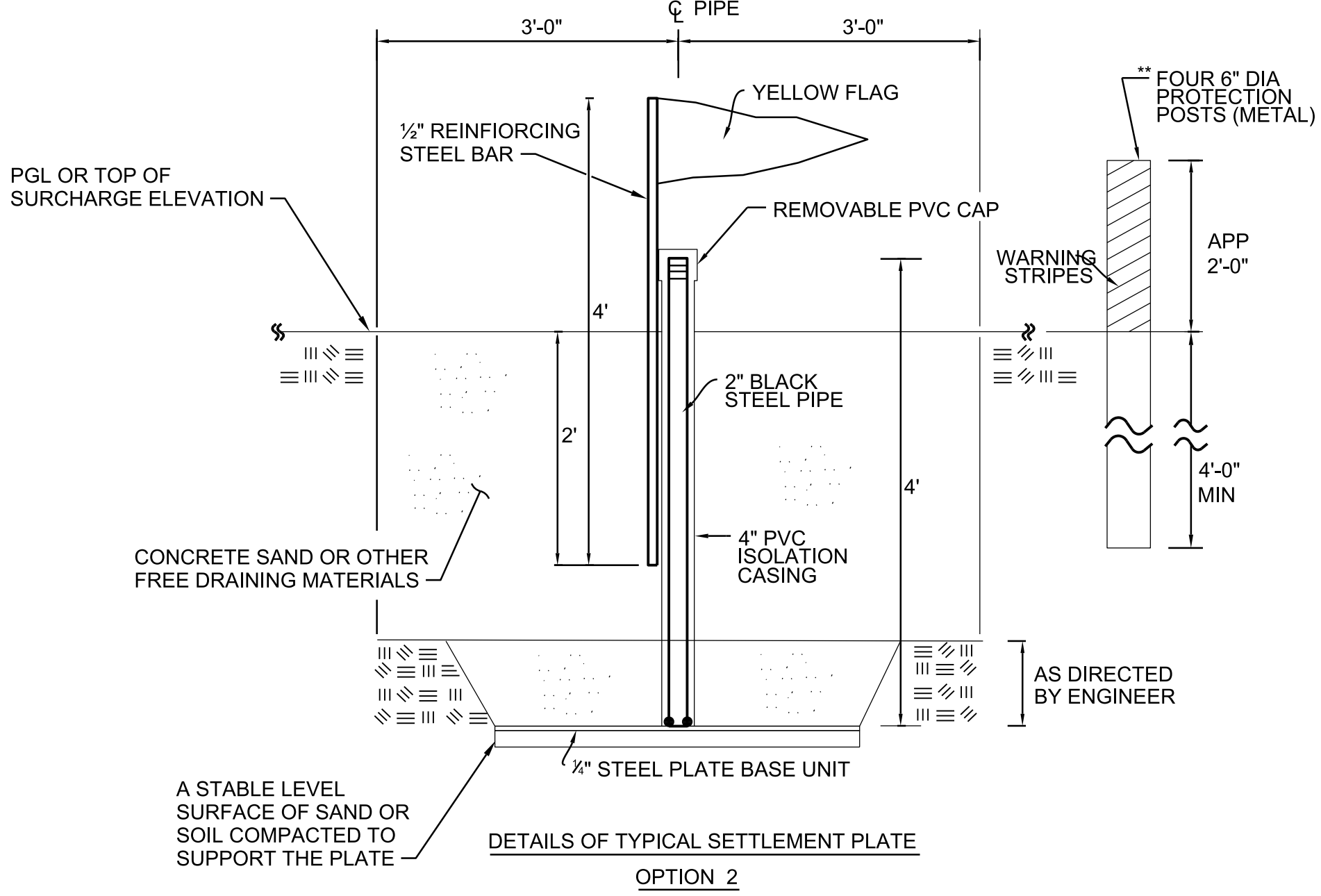
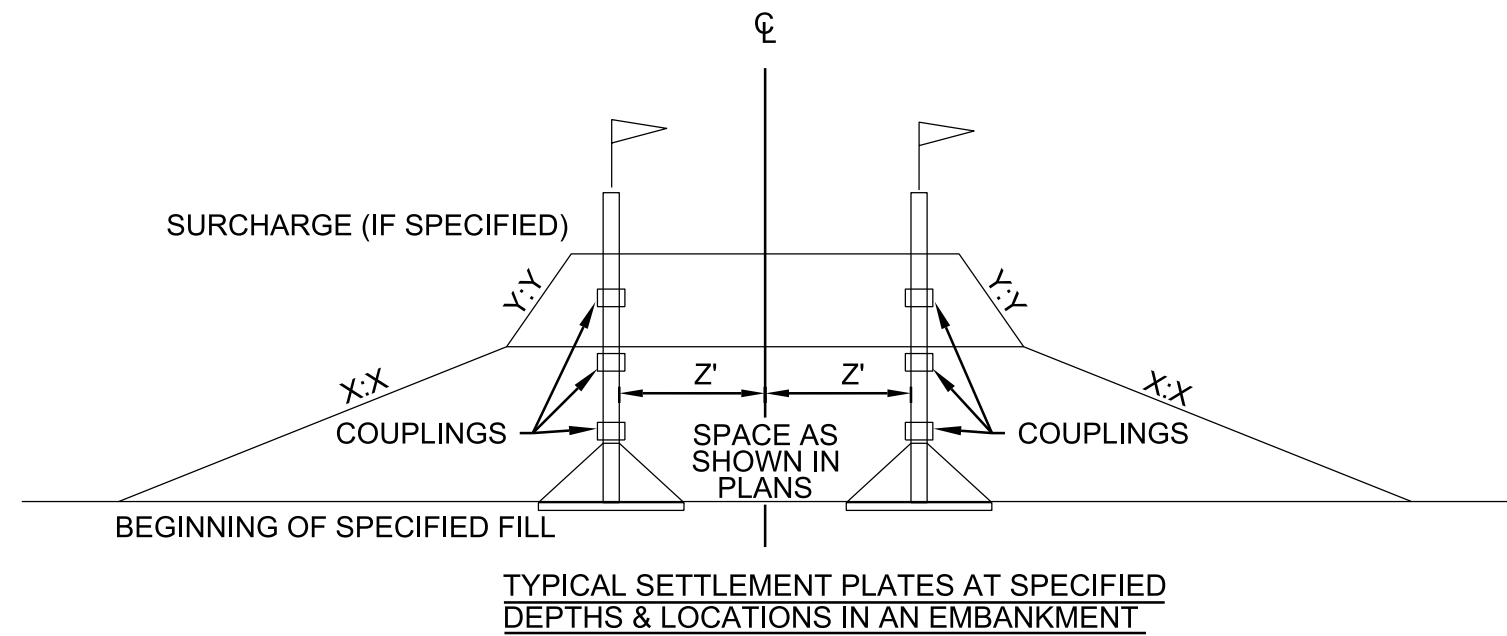
EXISTING OPERATIONS BUILDING



DETAILS OF STEEL PLATE BASE UNIT



DETAILS OF PIPE EXTENSION & COUPLING
NOTE: ALL EXTENSIONS & COUPLINGS TO BE 2" BLACK STEEL PIPE.



- NOTE:
- EACH 2" BLACK STEEL PIPE USED WILL HAVE AN OUTER 4" PVC ISOLATION CASING.
 - CONCRETE SAND MEETING THE REQUIREMENTS GIVEN IN ALDOT SECTION 802 SHALL BE FURNISHED FOR FILL AROUND THE PIPE. OTHER FREE DRAINING MATERIALS MAY BE USED FOR THIS FILL IF APPROVED BY THE ENGINEER. THIS FILL SHALL BE PLACED BY HAND TO FILL THE AREA WITHIN 3 FEET OF THE SETTLEMENT PIPE ASSEMBLY AS THE SURROUNDING FILL IS BEING MECHANICAL TAMPER TO THE DENSITY APPROVED BY THE ENGINEER.

SETTLEMENT PLATE ASSEMBLY
NTS (SOURCE: ALDOT SPECIAL DRAWING NO. UBC-210-SP, INDEX 24001)

GENERAL NOTES

- CONTRACTOR TO CONSTRUCT PRE-LOAD EMBANKMENT WITHIN THE LIMITS SHOWN AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 15 00.
- CONTRACTOR TO VERIFY ACCESS RAMP DOES NOT INTERFERE WITH EXISTING OVERHEAD ELECTRIC LINES PRIOR TO CONSTRUCTION. SUBMIT ALTERNATIVE LOCATION TO OWNER OR ENGINEER FOR APPROVAL.
- APPROXIMATELY 1,100 CUBIC YARDS OF SELECT FILL MATERIAL IS STOCKPILED ON SITE AND IS AVAILABLE FOR USE BY CONTRACTOR.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

JACOBS

CIVIL

PRE-LOADING SITE PLAN

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

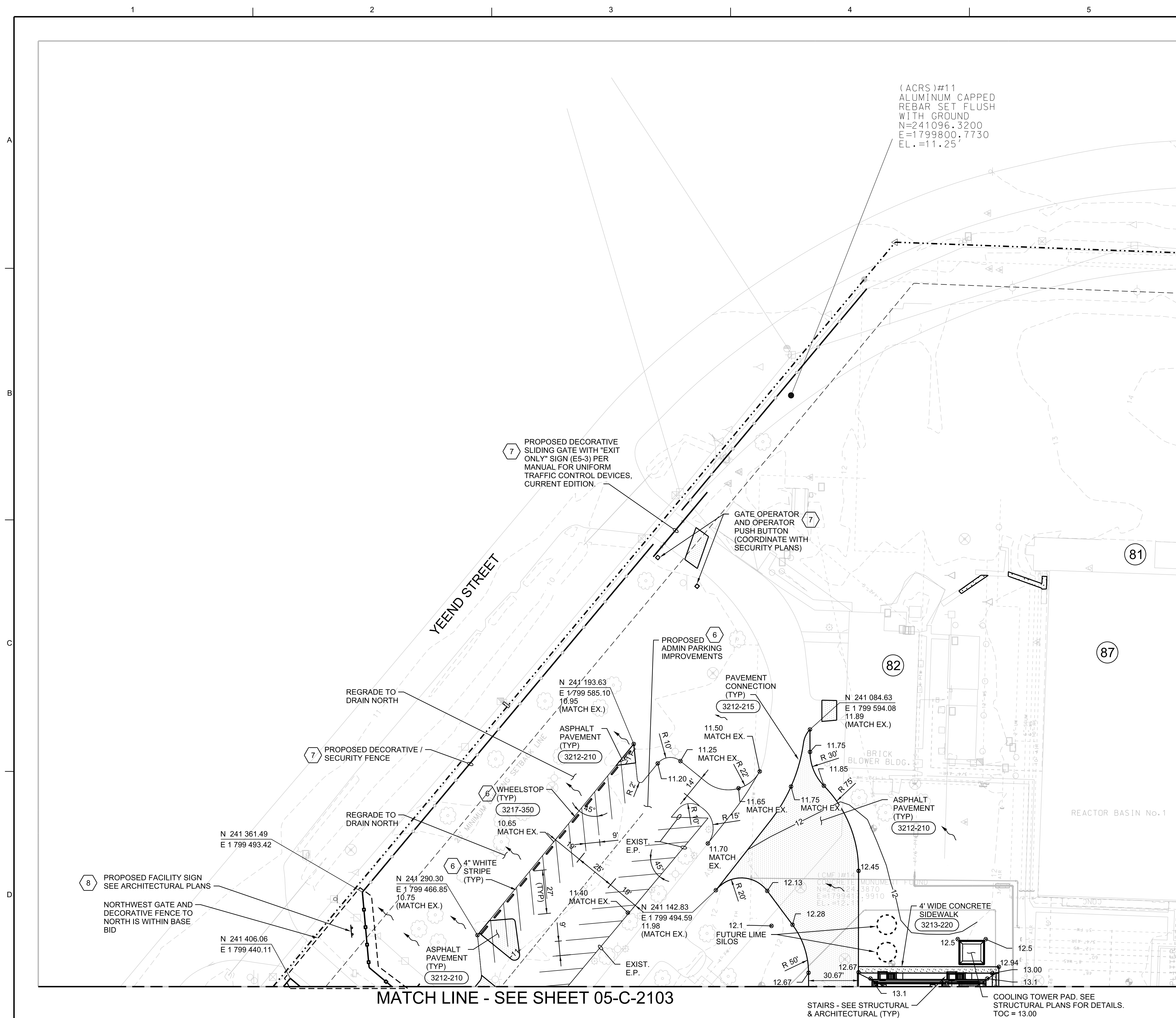
DATE MAY 2021

PROJ D3226100

DWG 05-C-1101

SHEET 033 of 270

CONFORMED DOCUMENTS



GENERAL NOTES

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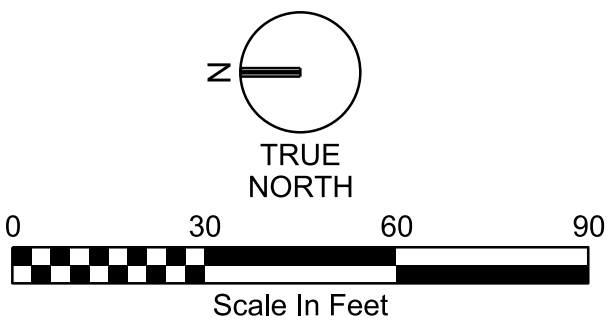
SHEET KEYNOTES

6. ADDITIVE ALTERNATE #6 (AA6) (NOT IN CONTRACT)
7. ADDITIVE ALTERNATE #7 (AA7) (NOT IN CONTRACT)
8. ADDITIVE ALTERNATE #8 (AA8) (NOT IN CONTRACT)

STRUCTURES

- 81 EXISTING REACTOR CONTROL BUILDING
- 82 EXISTING BLOWER BUILDING
- 87 EXISTING AERATION BASINS

05-C-2101	05-C-2102
05-C-2103	05-C-2104



Jacobs.

CIVIL
SITE, LAYOUT, GRADING,
AND DRAINAGE PLAN 1

$$1'' = 30'$$

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING

DATE MAY 2021

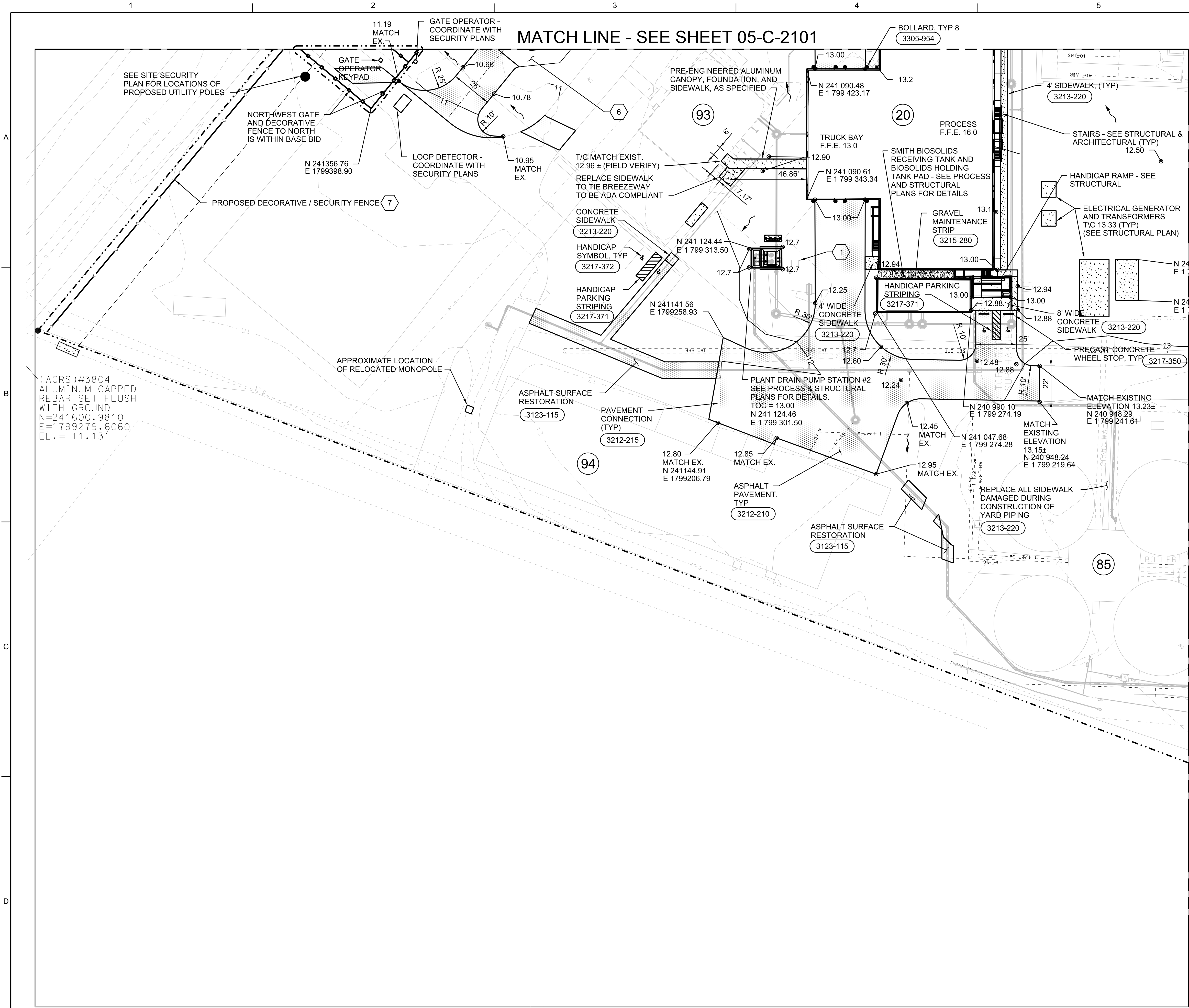
PROJ	D3226100
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DWG 05-C-2101

PLOT TIME: 6:57:10 AM

CONFORMED DOCUMENTS

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GENERAL NOTES

1.

ALL WORK ON THIS SHEET IS INCLUDED IN THE BASE BID UNLESS OTHERWISE NOTED.

2.

PROVIDE PRE-ENGINEERED ALUMINUM CANOPY, FOUNDATIONS, AND SIDEWALK PER SPEC SECTION 13 34 50 FOR ADA COMPLIANT ACCESS.

SHEET KEYNOTES

1.

EXISTING MONOPOLE - RELOCATE TO LOCATION AS DIRECTED BY ENGINEER

6.

ADDITIVE ALTERNATE #6 (AA6) (NOT IN CONTRACT)

7.

ADDITIVE ALTERNATE #7 (AA7) (NOT IN CONTRACT)

STRUCTURES

20

DEWATERING AND CONTROL BUILDING

85

EXISTING SECONDARY DIGESTER BUILDING

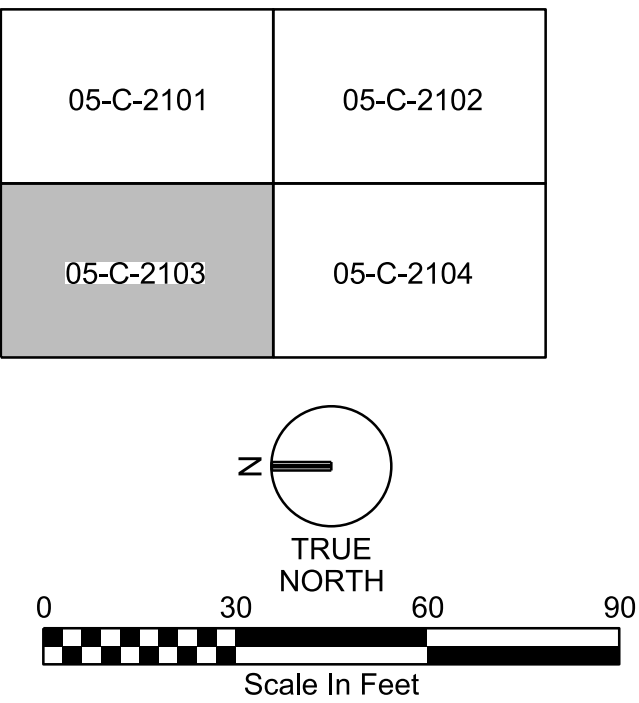
93

EXISTING ADMIN. BUILDING

94

EXISTING MAINTENANCE BUILDING

MATCH LINE - SEE SHEET 05-C-2104



JACOBS

CIVIL

SITE, LAYOUT, GRADING AND DRAINAGE PLAN 3

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

DATE

MAY 2021

PROJ

D3226100

DWG

05-C-2103

SHEET

036 of 270

1" = 30'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE

MAY 2021

PROJ

D3226100

DWG

05-C-2103

SHEET

036 of 270

D TERRY

DR

B OGLE

CHK

R MORRISON

APVD

J RAMOS

BY

APVD

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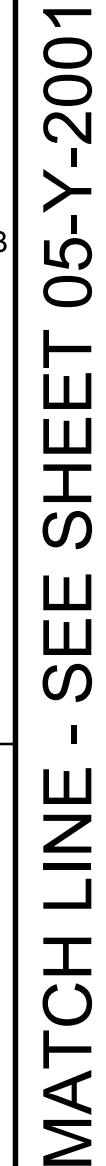
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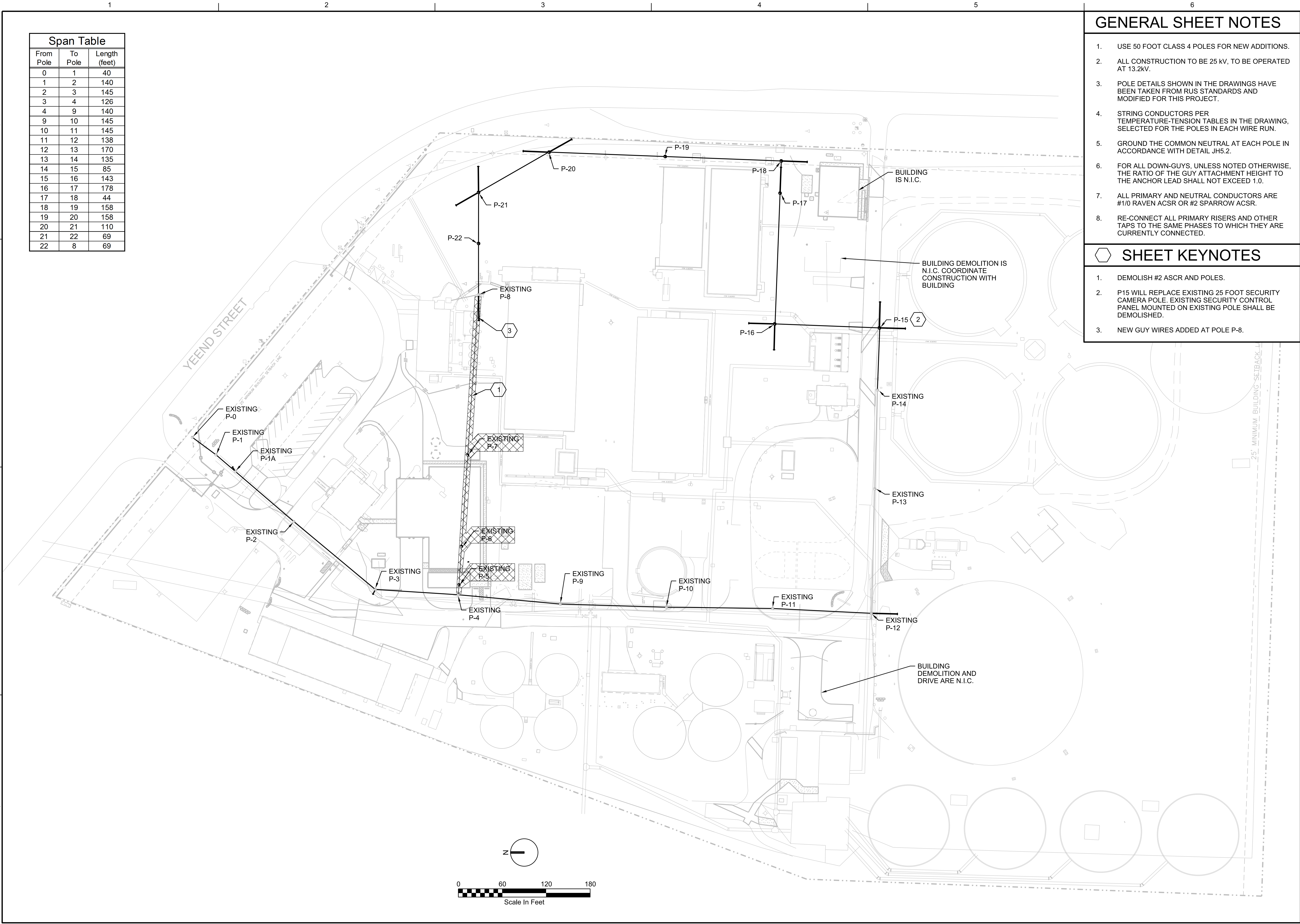
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FILENAME: 05-C-2103_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 6:56:02 AM





Span Table		
From Pole	To Pole	Length (feet)
0	1	40
1	2	140
2	3	145
3	4	126
4	9	140
9	10	145
10	11	145
11	12	138
12	13	170
13	14	135
14	15	85
15	16	143
16	17	178
17	18	44
18	19	158
19	20	158
20	21	110
21	22	69
22	8	69

GENERAL SHEET NOTES

- USE 50 FOOT CLASS 4 POLES FOR NEW ADDITIONS.
- ALL CONSTRUCTION TO BE 25 KV, TO BE OPERATED AT 13.2KV.
- POLE DETAILS SHOWN IN THE DRAWINGS HAVE BEEN TAKEN FROM RUS STANDARDS AND MODIFIED FOR THIS PROJECT.
- STRING CONDUCTORS PER TEMPERATURE-TENSION TABLES IN THE DRAWING, SELECTED FOR THE POLES IN EACH WIRE RUN.
- GROUND THE COMMON NEUTRAL AT EACH POLE IN ACCORDANCE WITH DETAIL JH5.2.
- FOR ALL DOWN-GUYS, UNLESS NOTED OTHERWISE, THE RATIO OF THE GUY ATTACHMENT HEIGHT TO THE ANCHOR LEAD SHALL NOT EXCEED 1.0.
- ALL PRIMARY AND NEUTRAL CONDUCTORS ARE #1/0 RAVEN ACSR OR #2 SPARROW ACSR.
- RE-CONNECT ALL PRIMARY RISERS AND OTHER TAPS TO THE SAME PHASES TO WHICH THEY ARE CURRENTLY CONNECTED.

SHEET KEYNOTES

- DEMOLISH #2 ASCR AND POLES.
- P15 WILL REPLACE EXISTING 25 FOOT SECURITY CAMERA POLE. EXISTING SECURITY CONTROL PANEL MOUNTED ON EXISTING POLE SHALL BE DEMOLISHED.
- NEW GUY WIRES ADDED AT POLE P-8.

JACOBS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

OVERALL SITE PLAN
EXISTING 13.2KV
OVERHEAD LINE MODIFICATIONS

1" = 60'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE MAY 2021

PROJ D3226100

DWG 06-E-2000

SHEET 042 of 270

GT YARBERRY

DR

NO.

DATE

DGN

GT YARBERRY

CHK

REVISION

BY

APVD

GT YARBERRY

APVD

KB HORTON

APVD

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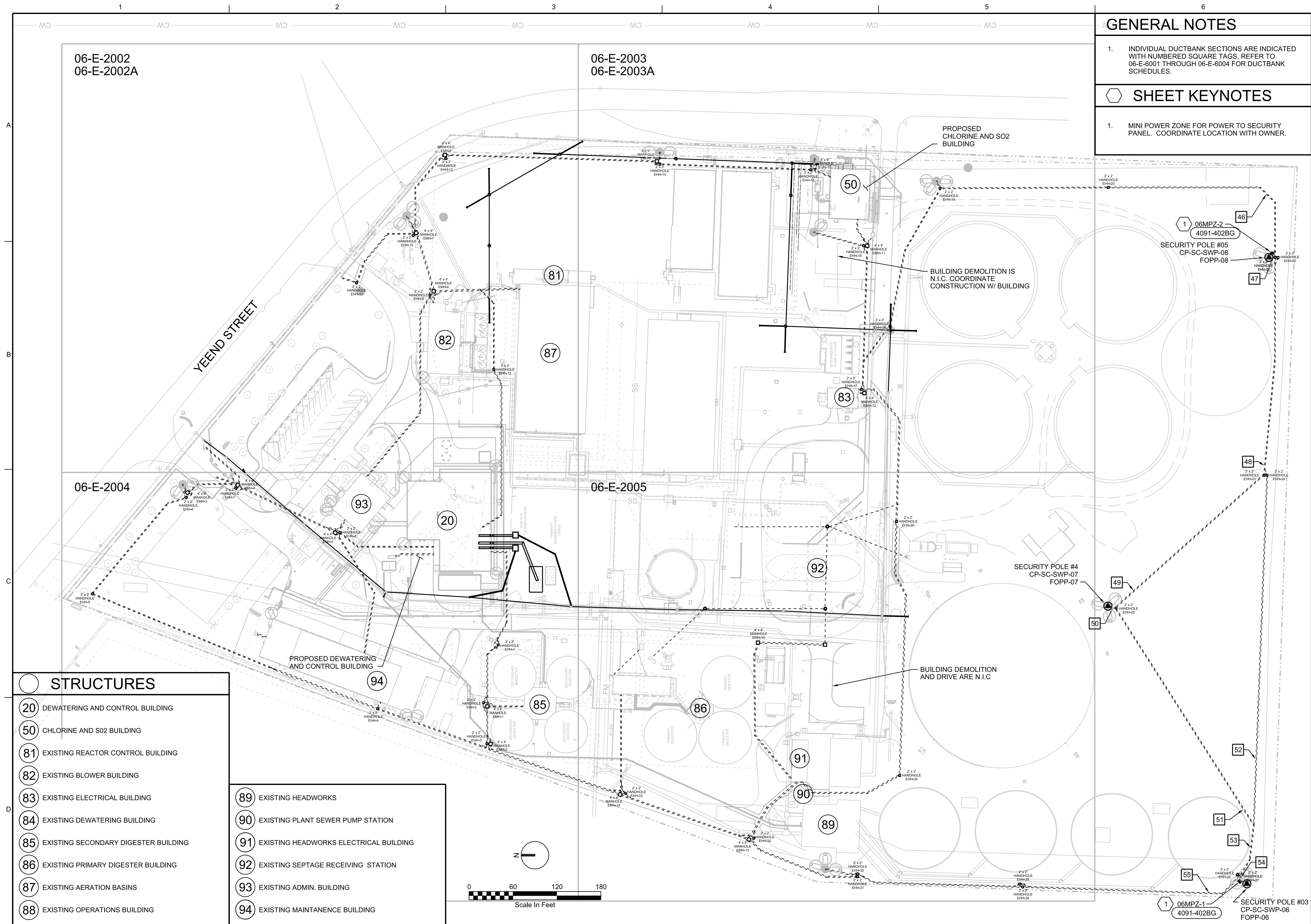
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FILENAME: 06-E-2000_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 6:57:04 AM



GENERAL NOTES

1. ALL DUCTBANK SECTIONS ARE INDICATED WITH NUMBERED SQUARE TAGS, REFER TO 06-E-6001 THROUGH 06-E-6004 FOR DUCTBANK SCHEDULES.

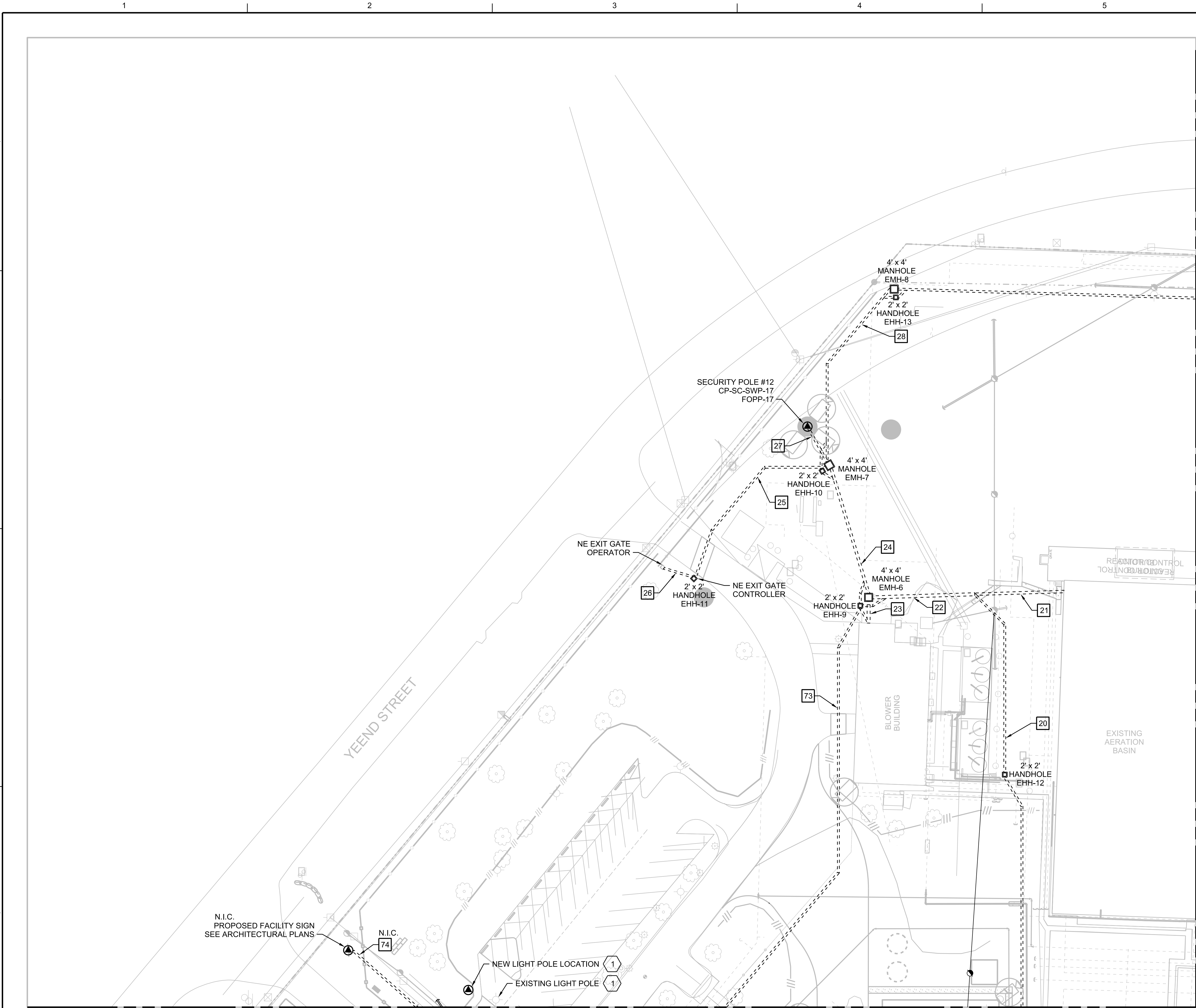
SHEET KEYNOTES

1. MINI POWER ZONE FOR POWER TO SECURITY PANEL. COORDINATE LOCATION WITH OWNER.

[illegible]

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS
		MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
		MOBILE, ALABAMA

<div><div>Jacobs</div><div>ELECTRICAL OVERALL SITE PLAN</div></div>	
1" = 60'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWINGS. 0 <div></div> 1"	
DATE	MAY 2021
PROJ	D3226100
DWG	06-E-2001
SHEET	043 of 270



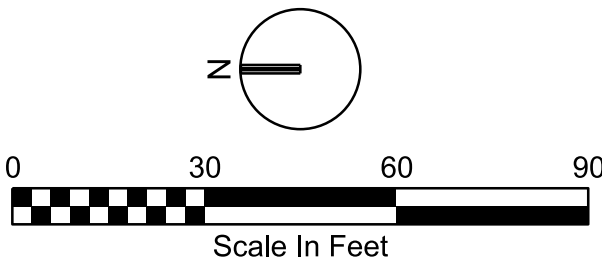
GENERAL NOTES

1. INDIVIDUAL DUCTBANK SECTIONS ARE INDICATED WITH NUMBERED SQUARE TAGS, REFER TO 06-E-6001 THROUGH 06-E-6004 FOR DUCTBANK SCHEDULES.

SHEET KEYNOTES

1. RELOCATE EXISTING LIGHT POLE TO INDICATED LOCATION. CONTRACTOR SHALL INCLUDE ALL PROVISIONS FOR EXTENDING EXISTING CIRCUIT TO NEW LOCATION.

06-E-2002	06-E-2003
06-E-2004	06-E-2005



Jacobs

ELECTRICAL
PARTIAL
SITE PLAN

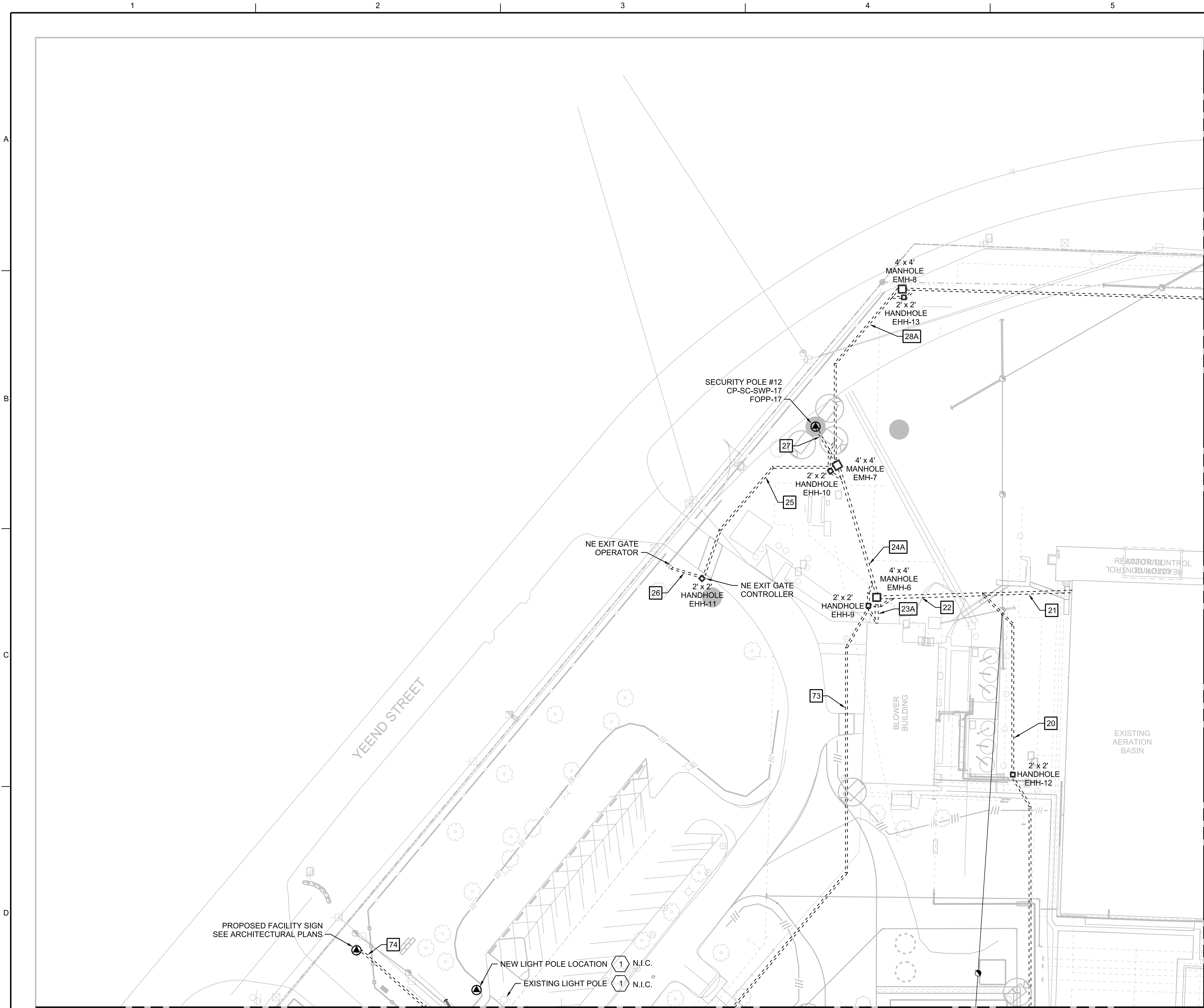
25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

1" = 30'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	06-E-2002
SHEET	044 of 270

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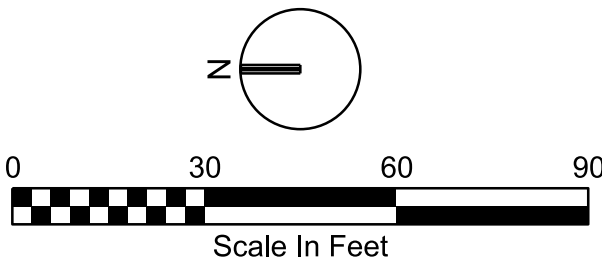
GENERAL NOTES

- 1. INDIVIDUAL DUCTBANK SECTIONS ARE INDICATED WITH NUMBERED SQUARE TAGS, REFER TO 06-E-6001 THROUGH 06-E-6004 FOR DUCTBANK SCHEDULES.
- 2. CONSTRUCTION OF A NEW CHLORINE AND SO2 BUILDING IS ADDITIVE ALTERNATE #1. IF NOT SELECTED, THE ALTERNATE DUCTBANK SECTIONS AND ROUTING SHOWN HERE SHALL BE USED.

SHEET KEYNOTES

- 1. RELOCATE EXISTING LIGHT POLE TO INDICATED LOCATION. CONTRACTOR SHALL INCLUDE ALL PROVISIONS FOR EXTENDING EXISTING CIRCUIT TO NEW LOCATION. N.I.C.

06-E-2002	06-E-2003
06-E-2004	06-E-2005



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ELECTRICAL
PARTIAL
SITE PLAN - ALTERNATE

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

DATE	MAY 2021
PROJ	D3226100
DWG	06-E-2002A
SHEET	045 of 270

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GT YARBERRY

KB HORTON

GT YARBERRY

G MESSER

CHK

DR

BY

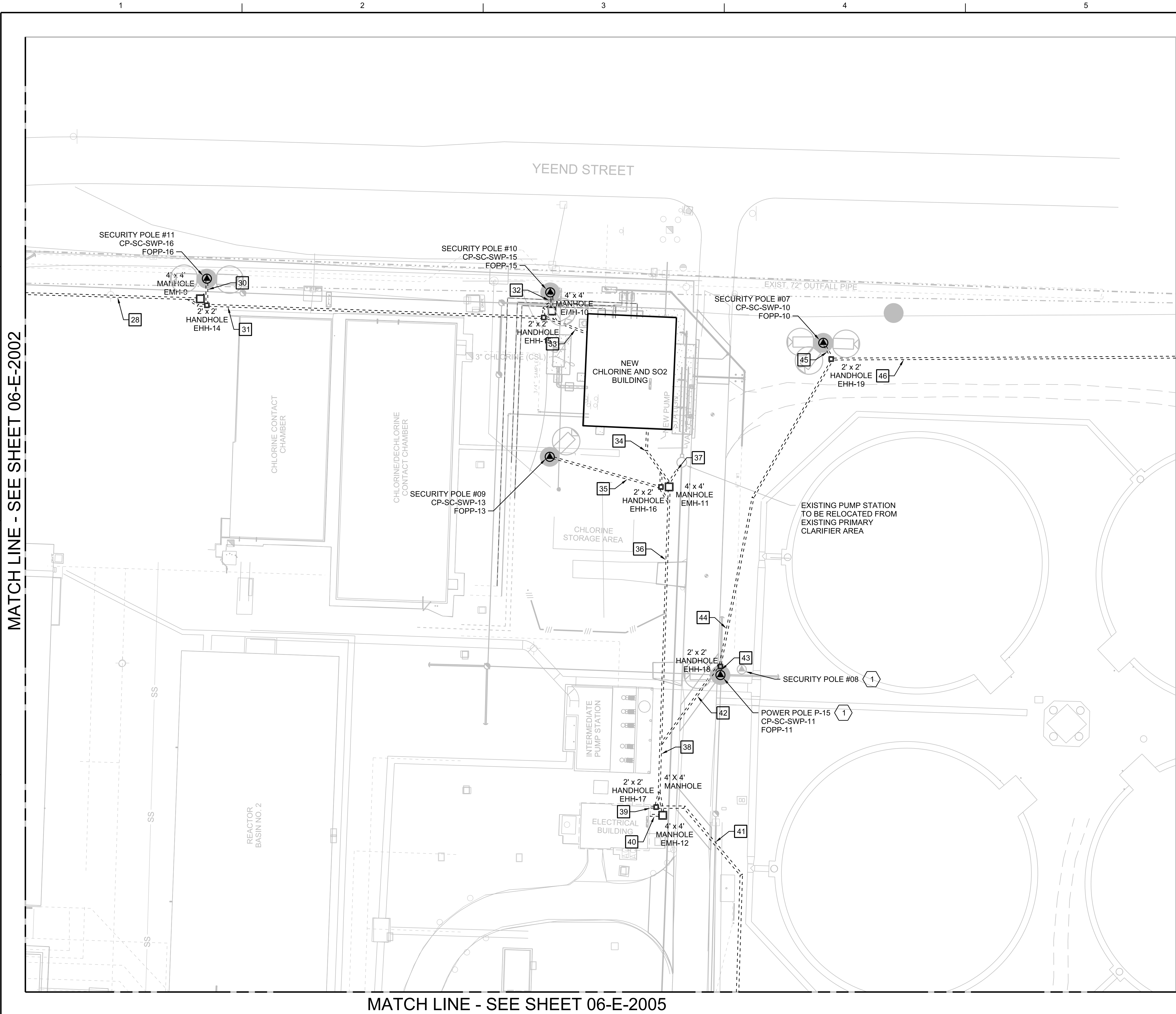
APVD

APVD

GT YARBERRY

GT YARBERRY

GT YARBERRY



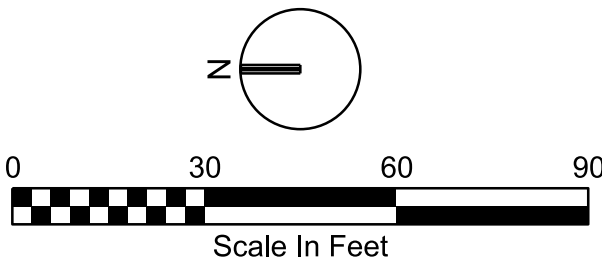
GENERAL NOTES

- 1. INDIVIDUAL DUCTBANK SECTIONS ARE INDICATED WITH NUMBERED SQUARE TAGS, REFER TO 06-E-6001 THROUGH 06-E-6004 FOR DUCTBANK SCHEDULES.

SHEET KEYNOTES

- 1. RELOCATE EXISTING SECURITY EQUIPMENT FROM SECURITY POLE #08 TO POWER POLE P-15. SPLICE AND EXTEND CONDUCTORS FROM SECURITY POLE #08 TO SECURITY EQUIPMENT MOUNTED ON POWER POLE P-15. SEE 06-TY-2002 AND 06-TY-5001.

06-E-2002	06-E-2003
06-E-2004	06-E-2005



Jacobs

ELECTRICAL
PARTIAL
SITE PLAN

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

1" = 30'

VERIFY SCALE

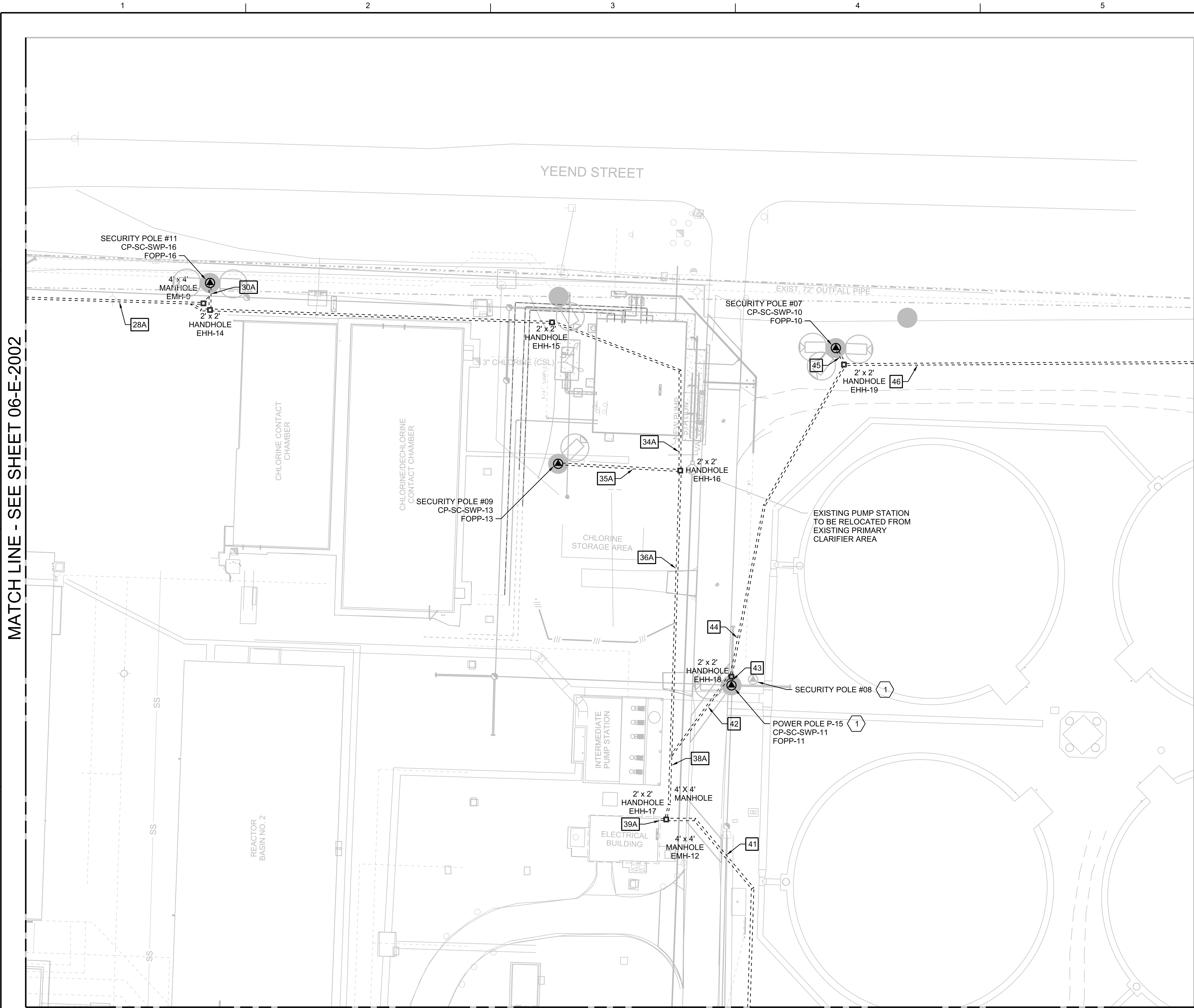
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DATE MAY 2021

PROJ D3226100

DWG 06-E-2003

SHEET 046 of 270



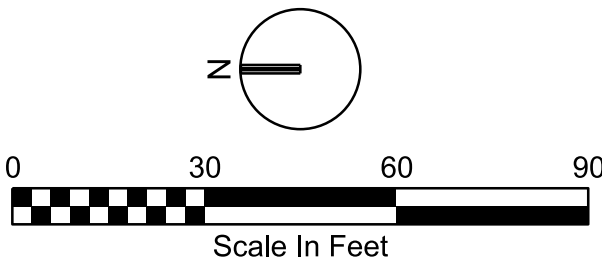
GENERAL NOTES

- INDIVIDUAL DUCTBANK SECTIONS ARE INDICATED WITH NUMBERED SQUARE TAGS, REFER TO 06-E-6001 THROUGH 06-E-6004 FOR DUCTBANK SCHEDULES.
- CONSTRUCTION OF A NEW CHLORINE AND SO2 BUILDING IS ADDITIVE ALTERNATE #1. IF NOT SELECTED, THE ALTERNATE DUCTBANK SECTIONS AND ROUTING SHOWN HERE SHALL BE USED.

SHEET KEYNOTES

- RELOCATE EXISTING SECURITY EQUIPMENT FROM SECURITY POLE #08 TO POWER POLE P-15. SPLICE AND EXTEND CONDUCTORS FROM SECURITY POLE #08 TO SECURITY EQUIPMENT MOUNTED ON POWER POLE P-15. SEE 06-TY-2002 AND 06-TY-5001.

06-E-2002	06-E-2003
06-E-2004	06-E-2005



Jacobs

ELECTRICAL
PARTIAL
SITE PLAN - ALTERNATE

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

1" = 30'
VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.

DATE	MAY 2021
PROJ	D3226100
DWG	06-E-2003A
SHEET	047 of 270

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GT YARBERRY
DR

KB HORTON
CHK

G MESSER
REVISION

BY

APVD

NO.

DATE

DSGN

GT YARBERRY

APVD

BY

APVD

GT YARBERRY

APVD

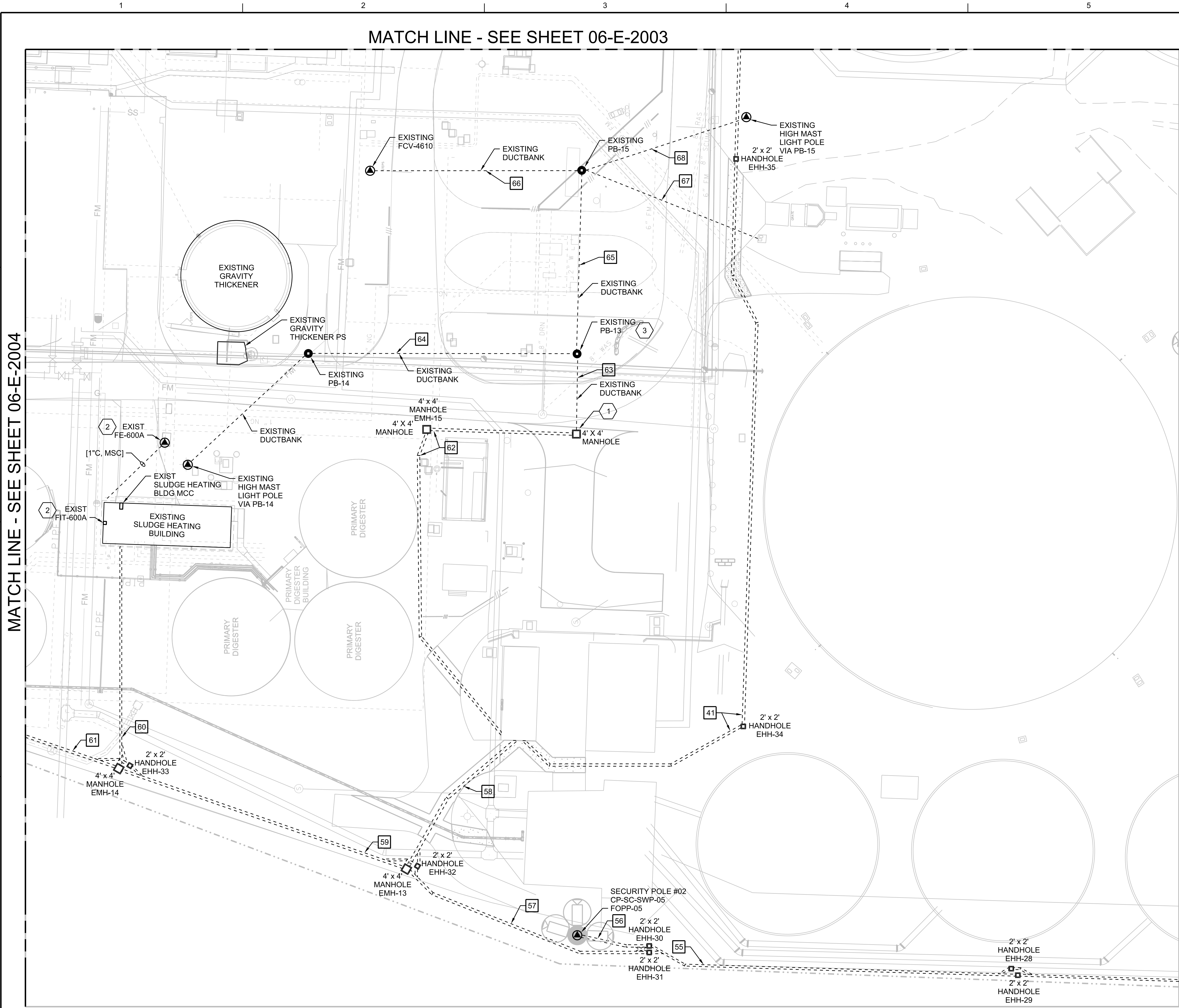
BY

APVD

GT YARBERRY

APVD

GT YARBERRY



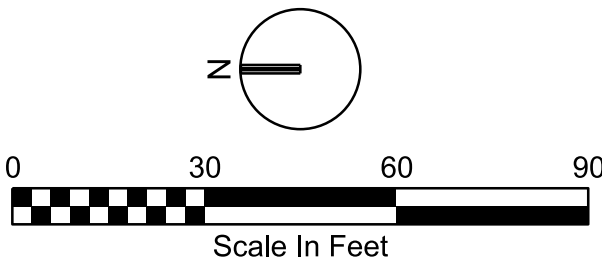
GENERAL NOTES

- INDIVIDUAL DUCTBANK SECTIONS ARE INDICATED WITH NUMBERED SQUARE TAGS, REFER TO 06-E-6001 THROUGH 06-E-6004 FOR DUCTBANK SCHEDULES.

SHEET KEYNOTES

- CONTRACTOR SHALL LOCATE NEW MANHOLE OVER EXISTING ELECTRICAL DUCTBANK. CONTRACTOR SHALL MODIFY EXISTING CONDUITS TO TERMINATE WITHIN NEW MANHOLE SHOWN. CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS WITHIN EXISTING RACEWAY TO EXISTING LOADS.
- CONTRACTOR SHALL RELOCATE EXISTING TRANSMITTER FROM THE EXISTING PRIMARY CLARIFIER ELECTRICAL BUILDING. CONTRACTOR SHALL PROVIDE [3/4"C, 2#12, 1#12G] FROM EXISTING 20/120V PANELBOARD LOCATED WITHIN THE SLUDGE HEATING BUILDING TO THE RELOCATED TRANSMITTER. CONTRACTOR SHALL ALSO PROVIDE [1"C, TYPE 3] FROM TRANSMITTER TO CP-85-1. REFER TO DUCTBANK 60 FOR CONTINUATION.
- CONTRACTOR SHALL SPLICE FEEDERS TO THE EXISTING PB-13. SPLICE SHALL BE WATER TIGHT.

06-E-2002	06-E-2003
06-E-2004	06-E-2005



Jacobs

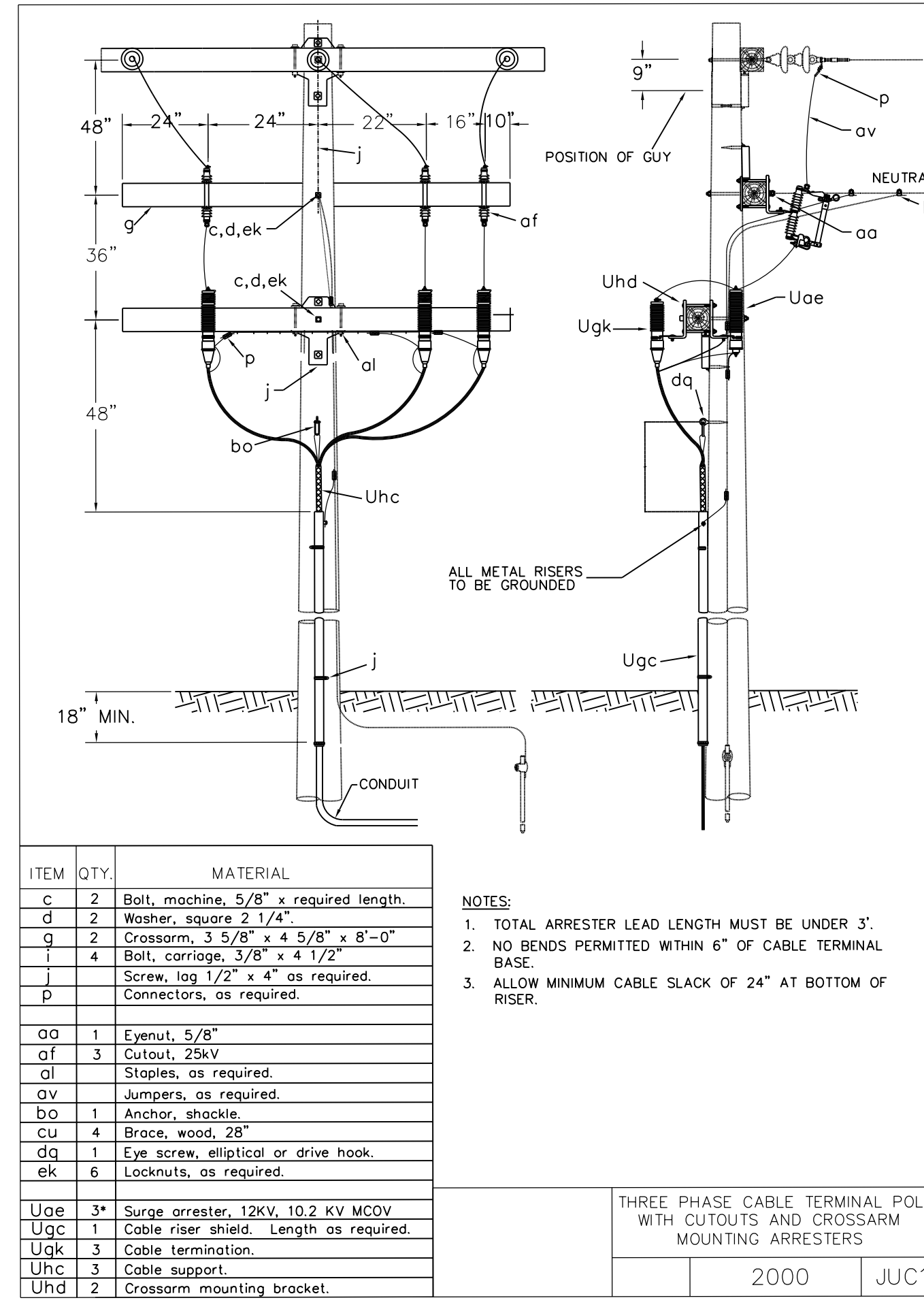
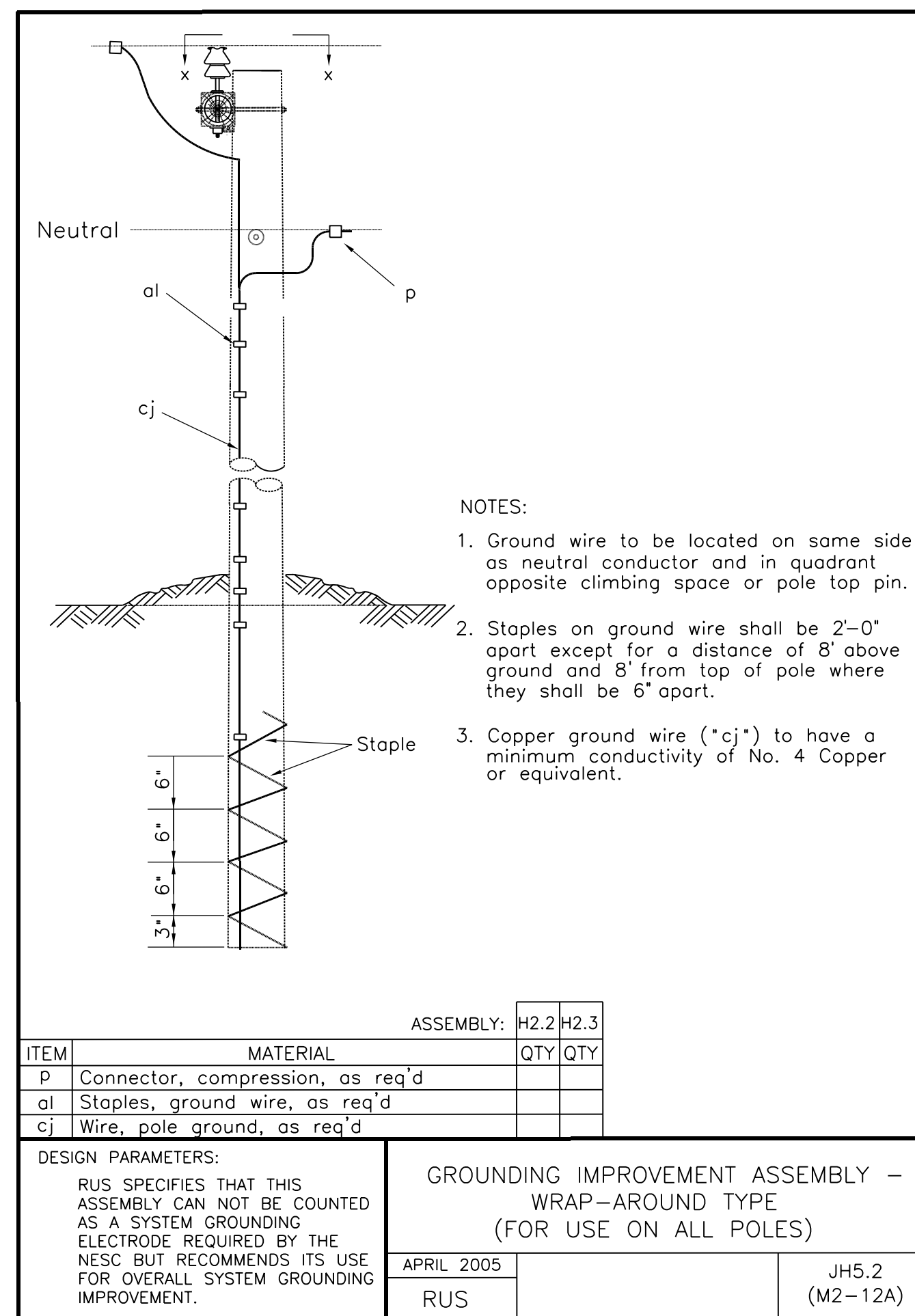
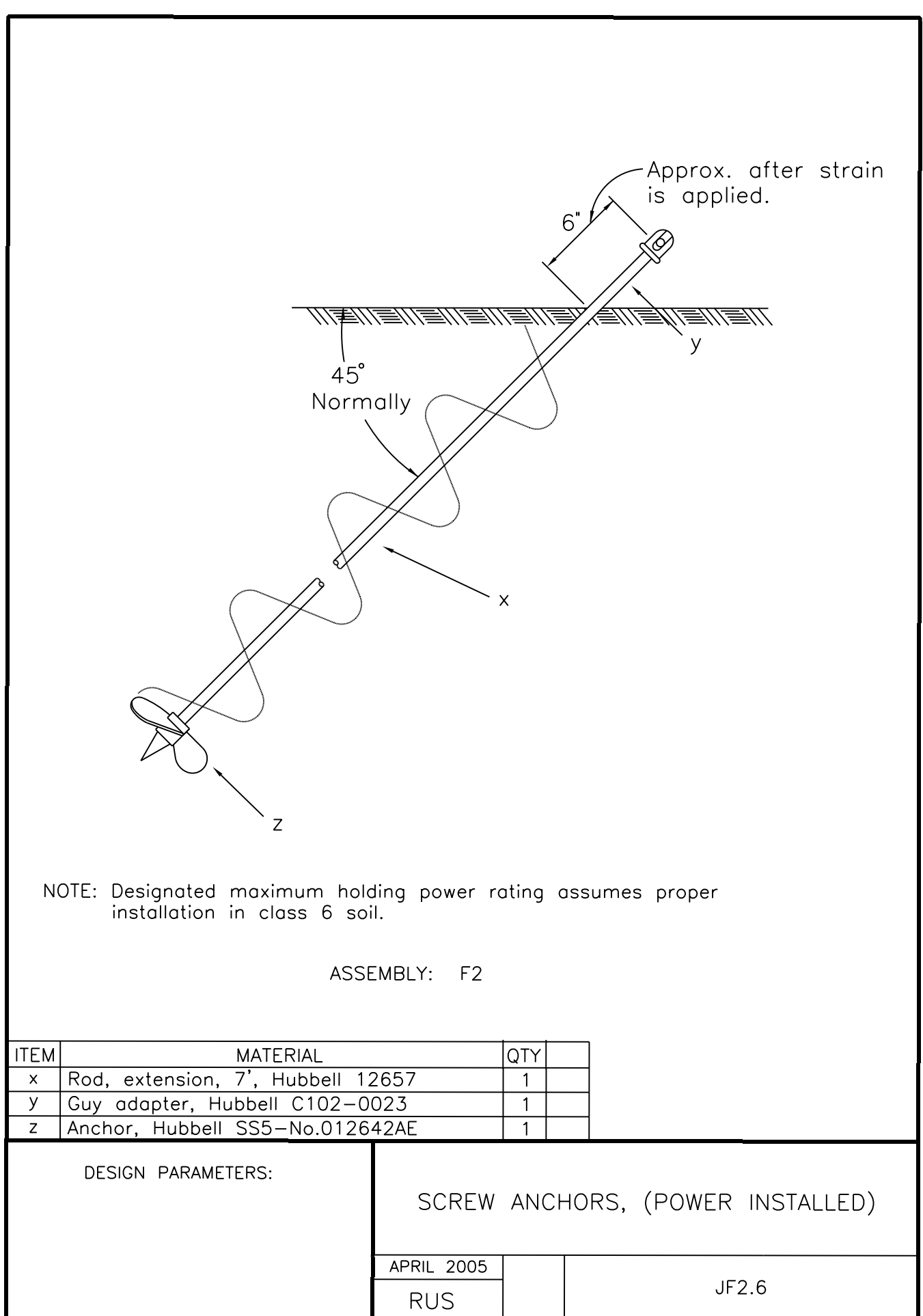
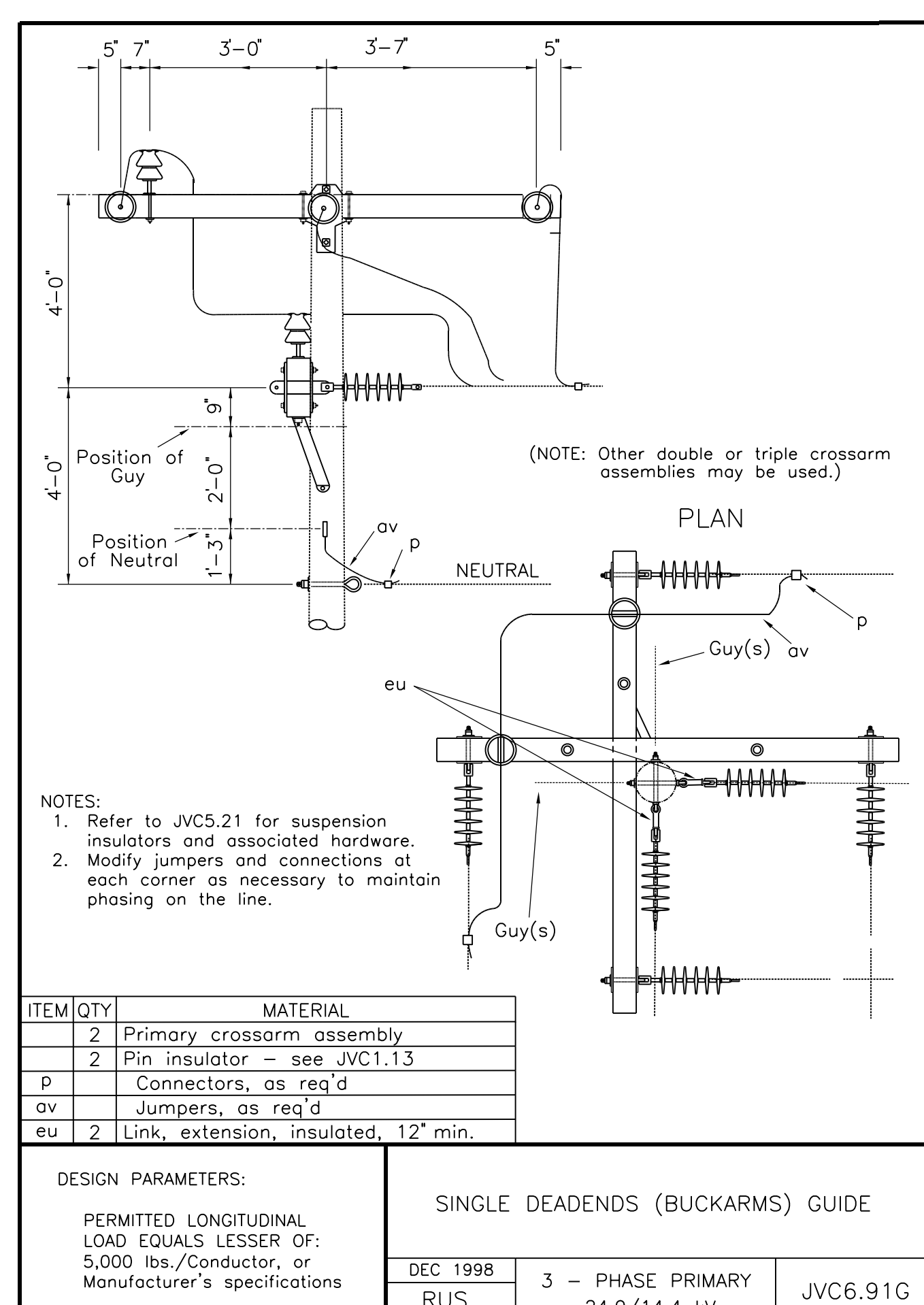
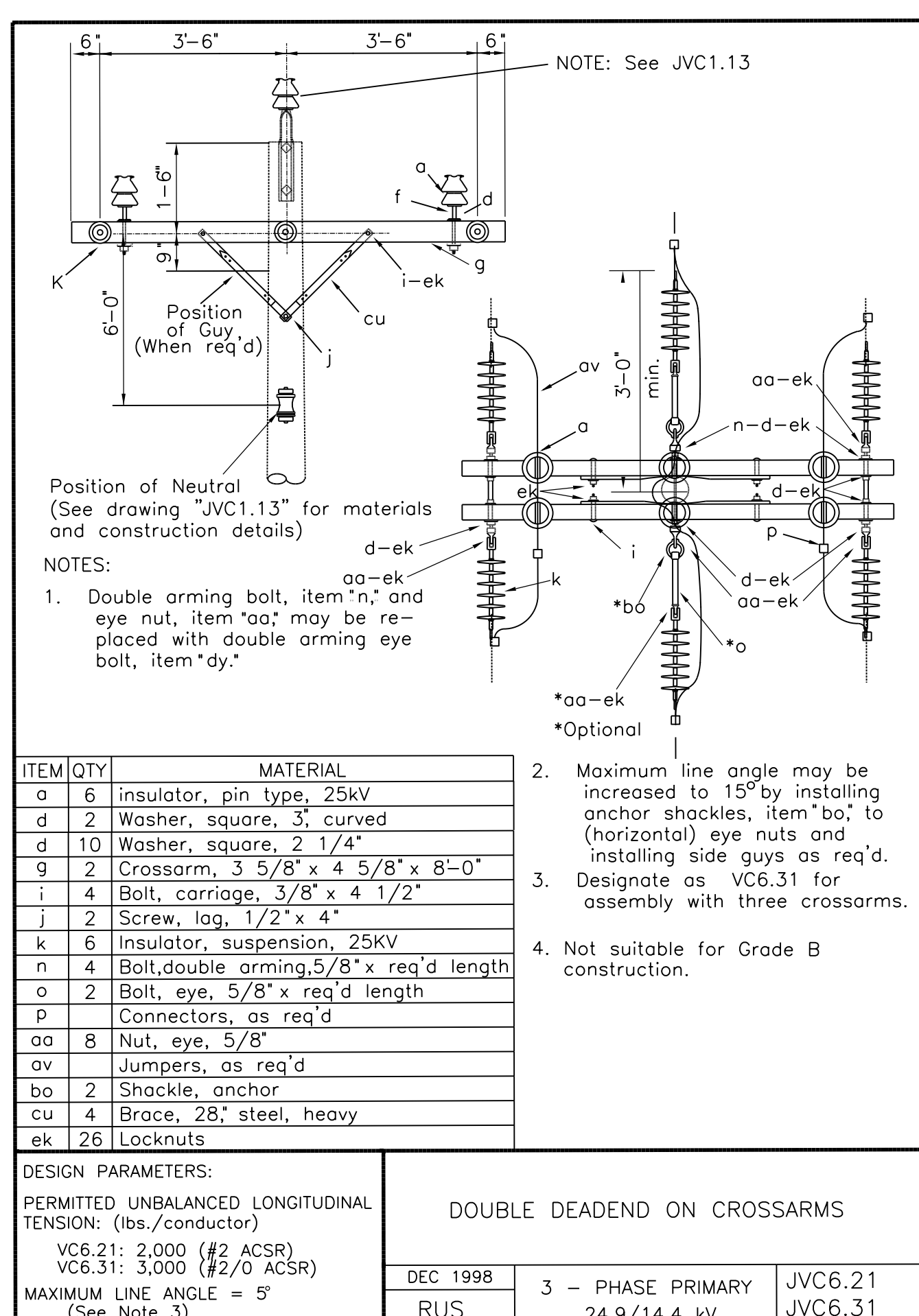
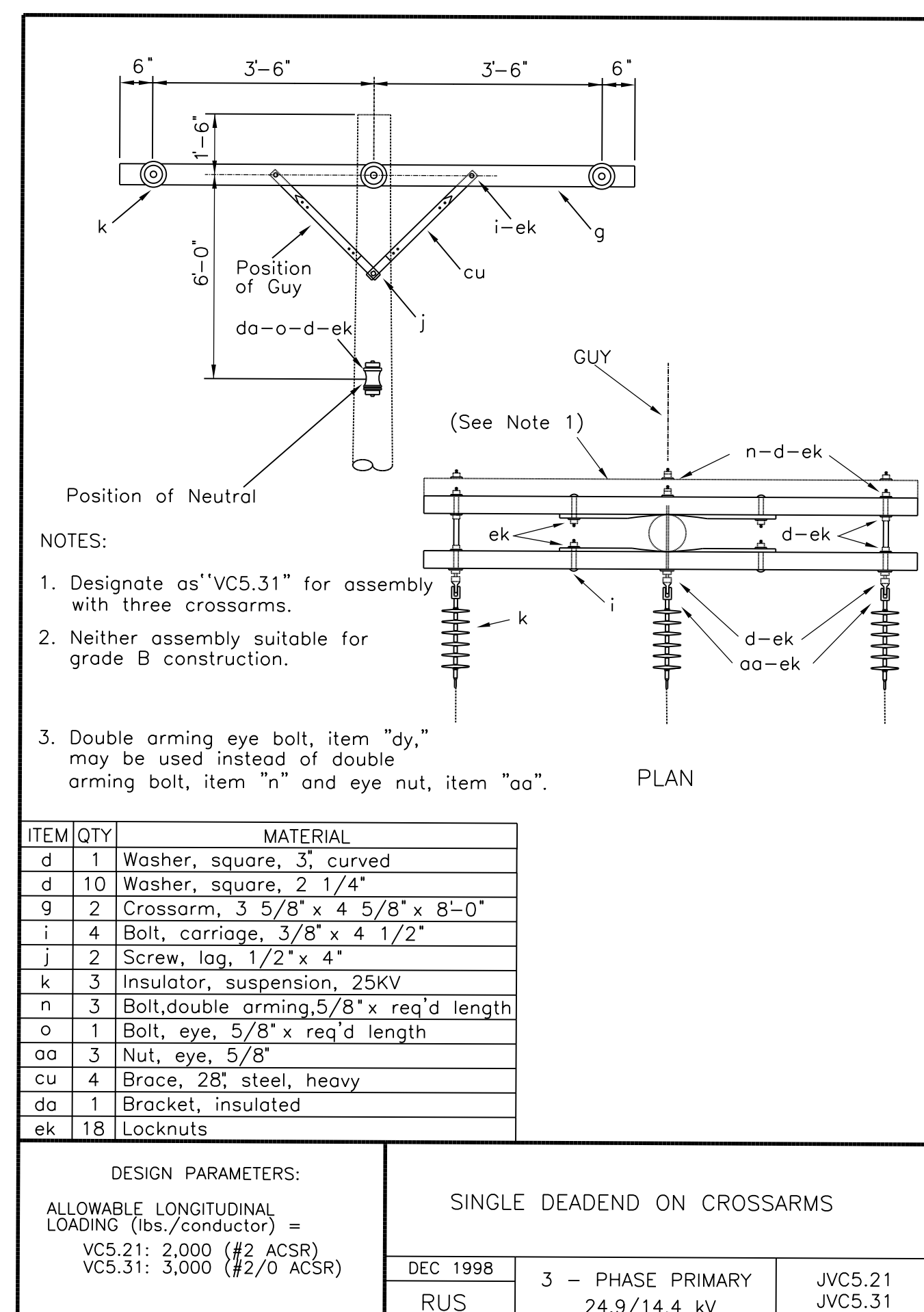
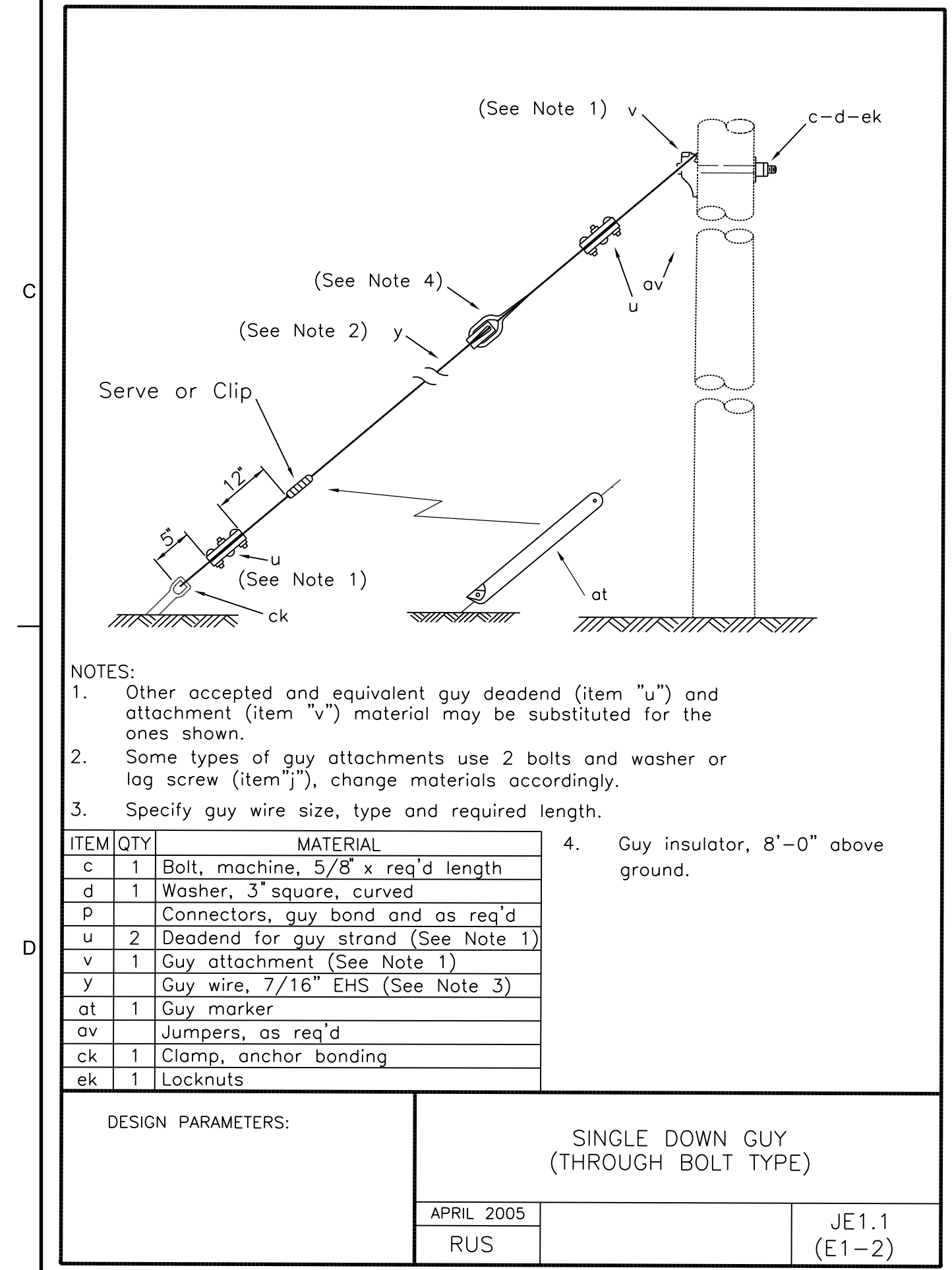
ELECTRICAL
PARTIAL
SITE PLAN

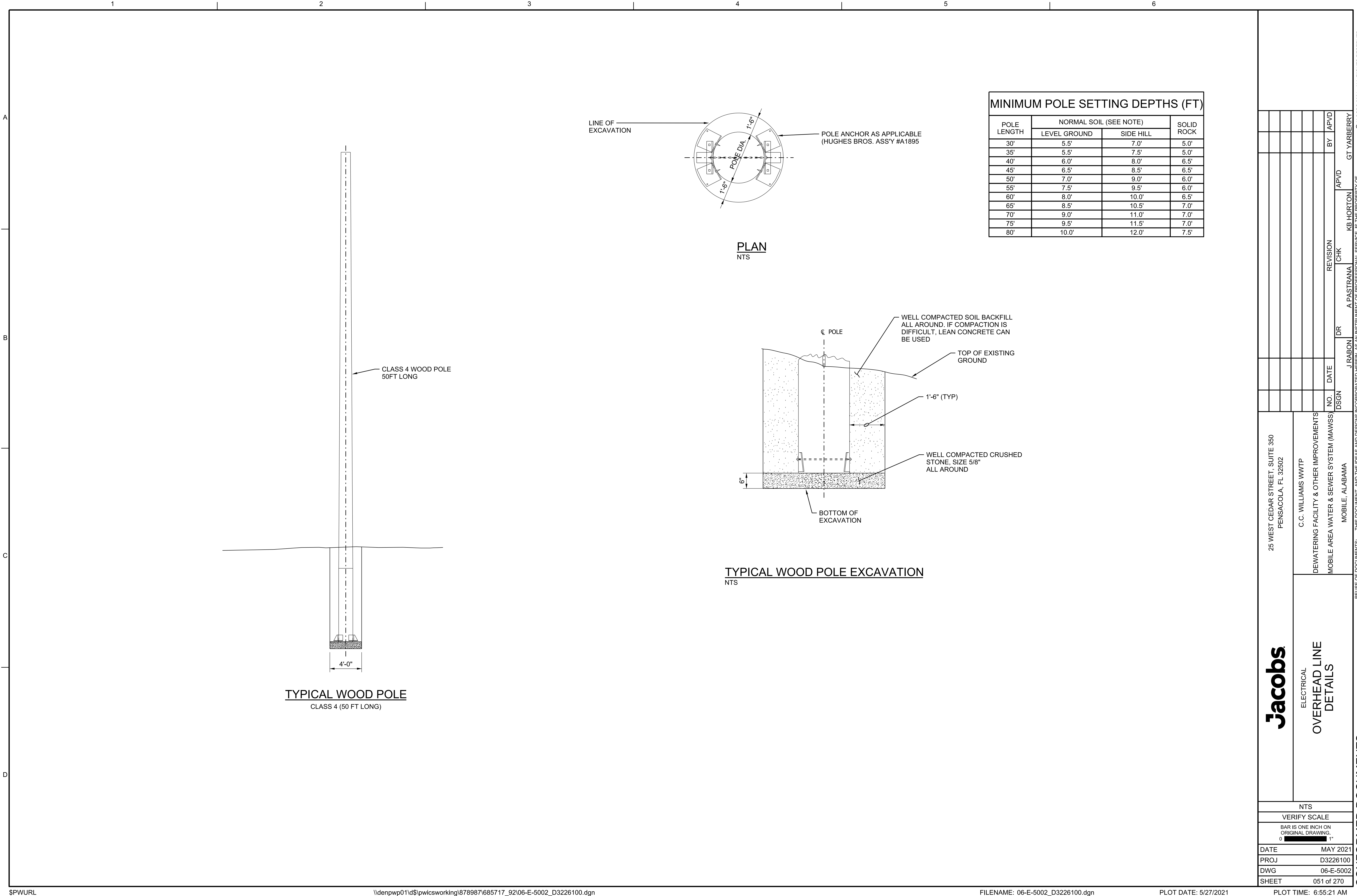
25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

DATE	MAY 2021
PROJ	D3226100
DWG	06-E-2005
SHEET	049 of 270

CONFORMED DOCUMENTS





POLE LENGTH	NORMAL SOIL (SEE NOTE)		SOLID ROCK
	LEVEL GROUND	SIDE HILL	
30'	5.5'	7.0'	5.0'
35'	5.5'	7.5'	5.0'
40'	6.0'	8.0'	6.5'
45'	6.5'	8.5'	6.5'
50'	7.0'	9.0'	6.0'
55'	7.5'	9.5'	6.0'
60'	8.0'	10.0'	6.5'
65'	8.5'	10.5'	7.0'
70'	9.0'	11.0'	7.0'
75'	9.5'	11.5'	7.0'
80'	10.0'	12.0'	7.5'

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ELECTRICAL

OVERHEAD LINE DETAILS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

NTS
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
DATE: MAY 2021
PROJ: D3226100
DWG: 06-E-5002
SHEET: 051 of 270

GT YARBERRY
APVD
BY
REVISION
CHK
APVD
A PASTRANA
DR
J RABON
NO. DATE DSGN

KB HORTON
APVD
GT YARBERRY
BY
REVISION
CHK
APVD
A PASTRANA
DR
J RABON
NO. DATE DSGN

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CONFORMED DOCUMENTS

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POLES P-0 TO P-12

1/0 RAVEN, ACSR

DESIGN ITEM	UNITS	1/0 RAVEN, ACSR			
MAKE UP OF CONDUCTOR		ACSR 6/1			
MATERIAL		ACSR			
DIAMETER	IN	0.398			
CROSS SECTIONAL AREA	SQ IN	0.0968			
WEIGHT OF CONDUCTOR	LB/FT	0.146			
WEIGHT OF CATENARY	LB/FT	0.146			
RADIAL THICKNESS OF ICE (1/4 ICE)	IN	0.250			
WEIGHT OF ICE (1/4 ICE)	LB/FT	0.201			
WEIGHT OF CATENARY WITH ICE (1/4 ICE)	LB/FT	0.347			
RADIAL THICKNESS OF ICE (1/2 ICE)	IN	0.500			
WEIGHT OF ICE (1/2 ICE)	LB/FT	0.558			
WEIGHT OF CATENARY WITH ICE (1/2 ICE)	LB/FT	0.704			
BREAKING LOAD	LB	4,380			
MAXIMUM SPAN / EQUIVALENT SPAN	FT	136			
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	180
C2 (HOT)	120	0	0.000	LB	123
C3 (NESC LIGHT)	30	60	0.000	LB	494
C4 (ICE)	30	40	0.250	LB	557
C5 (COLD)	0	0	0.000	LB	421
C6 (HIGH WIND)	60	140	0.000	LB	1,216
CONDUCTOR SAGS ON 136 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	1.88
C2 (HOT)	120	0	0	FT	2.75
C3 (NESC LIGHT)	30	60	0.00	FT	1.82
C4 (ICE)	30	40	0.25	FT	1.92
C5 (COLD)	0	0	0.00	FT	0.80
C6 (HIGH WIND)	60	140	0	FT	3.18
MODULUS OF ELASTICITY			PSI	1.129E+07	
COEFFICIENT OF EXPANSION			/F	1.058E-05	
MINIMUM FACTOR OF SAFETY				3.80	
Design Temp			°F	60	
Wind Factors				1.00	
Density of Ice			#/FT³	57	

WIRE TENSIONS (CONDITION 1)

TEMP	LOADED TENSION	SAG (FT)
-20 °F	601	0.56
-10 °F	505	0.67
0 °F	421	0.80
10 °F	350	0.96
15 °F	321	1.05
20 °F	295	1.14
30 °F	253	1.33
32 °F	246	1.37
40 °F	222	1.52
50 °F	198	1.70
60 °F	180	1.88
70 °F	166	2.04
80 °F	154	2.19
90 °F	144	2.34
100 °F	136	2.48
110 °F	129	2.62
120 °F	123	2.75
165 °F	103	3.28

POLES P-21 TO P-8

#2 SPARROW, ACSR

DESIGN ITEM	UNITS	#2 SPARROW, ACSR			
MAKE UP OF CONDUCTOR		ACSR 6/1			
MATERIAL		ACSR			
DIAMETER	IN	0.316			
CROSS SECTIONAL AREA	SQ IN	0.0608			
WEIGHT OF CONDUCTOR	LB/FT	0.091			
WEIGHT OF CATENARY	LB/FT	0.091			
RADIAL THICKNESS OF ICE (1/4 ICE)	IN	0.250			
WEIGHT OF ICE (1/4 ICE)	LB/FT	0.176			
WEIGHT OF CATENARY WITH ICE (1/4 ICE)	LB/FT	0.267			
RADIAL THICKNESS OF ICE (1/2 ICE)	IN	0.500			
WEIGHT OF ICE (1/2 ICE)	LB/FT	0.507			
WEIGHT OF CATENARY WITH ICE (1/2 ICE)	LB/FT	0.598			
BREAKING LOAD	LB	2,850			
MAXIMUM SPAN / EQUIVALENT SPAN	FT	69			
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	140
C2 (HOT)	120	0	0.000	LB	53
C3 (NESC LIGHT)	30	60	0.000	LB	389
C4 (ICE)	30	40	0.250	LB	417
C5 (COLD)	0	0	0.000	LB	523
C6 (HIGH WIND)	60	140	0.000	LB	650
CONDUCTOR SAGS ON 69 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	0.39
C2 (HOT)	120	0	0	FT	1.03
C3 (NESC LIGHT)	30	60	0.00	FT	0.47
C4 (ICE)	30	40	0.25	FT	0.55
C5 (COLD)	0	0	0.00	FT	0.10
C6 (HIGH WIND)	60	140	0	FT	1.21
MODULUS OF ELASTICITY			PSI	1.132E+07	
COEFFICIENT OF EXPANSION			/F	1.059E-05	
MINIMUM FACTOR OF SAFETY				4.39	
Design Temp			°F	60	
Wind Factors				1.00	
Density of Ice			#/FT³	57	

WIRE TENSIONS (CONDITION 1)

TEMP	LOADED TENSION	SAG (FT)
-20 °F	667	0.08
-10 °F	595	0.09
0 °F	523	0.10
10 °F	452	0.12
15 °F	416	0.13
20 °F	381	0.14
30 °F	312	0.17
32 °F	299	0.18
40 °F	246	0.22
50 °F	187	0.29
60 °F	140	0.39
70 °F	107	0.50
80 °F	87	0.62
90 °F	73	0.74
100 °F	64	0.84
110 °F	58	0.94
120 °F	53	1.03
165 °F	40	1.37

POLES P-17 TO P-18

#2 SPARROW, ACSR

DESIGN ITEM	UNITS	#2 SPARROW, ACSR			
MAKE UP OF CONDUCTOR		ACSR 6/1			
MATERIAL		ACSR			
DIAMETER	IN	0.316			
CROSS SECTIONAL AREA	SQ IN	0.0608			
WEIGHT OF CONDUCTOR	LB/FT	0.091			
WEIGHT OF CATENARY	LB/FT	0.091			
RADIAL THICKNESS OF ICE (1/4 ICE)	IN	0.250			
WEIGHT OF ICE (1/4 ICE)	LB/FT	0.176			
WEIGHT OF CATENARY WITH ICE (1/4 ICE)	LB/FT	0.267			
RADIAL THICKNESS OF ICE (1/2 ICE)	IN	0.500			
WEIGHT OF ICE (1/2 ICE)	LB/FT	0.507			
WEIGHT OF CATENARY WITH ICE (1/2 ICE)	LB/FT	0.598			
BREAKING LOAD	LB	2,850			
MAXIMUM SPAN / EQUIVALENT SPAN	FT	44			
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	15
C2 (HOT)	120	0	0.000	LB	14
C3 (NESC LIGHT)	30	60	0.000	LB	53
C4 (ICE)	30	40	0.250	LB	66
C5 (COLD)	0	0	0.000	LB	17
C6 (HIGH WIND)	60	140	0.000	LB	209
CONDUCTOR SAGS ON 44 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	1.47
C2 (HOT)	120	0	0	FT	1.62
C3 (NESC LIGHT)	30	60	0.00	FT	1.40
C4 (ICE)	30	40	0.25	FT	1.41
C5 (COLD)	0	0	0.00	FT	1.30
C6 (HIGH WIND)	60	140	0	FT	1.54
MODULUS OF ELASTICITY			PSI	1.132E+07	
COEFFICIENT OF EXPANSION			/F	1.058E-05	
MINIMUM FACTOR OF SAFETY				13.66	
Design Temp			°F	60	
Wind Factors				1.00	
Density of Ice			#/FT³	57	

WIRE TENSIONS (CONDITION 1)

TEMP	LOADED TENSION	SAG (FT)
-20 °F	18	1.24
-10 °F	17	1.27
0 °F	17	1.30
10 °F	17	1.33
15 °F	16	1.35
20 °F	16	1.36
30 °F	16	1.39
32 °F	16	1.39
40 °F	16	1.42
50 °F	15	1.44
60 °F	15	1.47
70 °F	15	1.49
80 °F	14	1.52
90 °F	14	1.54
100 °F	14	1.57
110 °F	14	1.59
120 °F	14	1.62
165 °F	13	1.72

POLES P-20 TO P-21

#2 SPARROW, ACSR

DESIGN ITEM	UNITS	#2 SPARROW, ACSR			
MAKE UP OF CONDUCTOR		ACSR 6/1			
MATERIAL		ACSR			
DIAMETER	IN	0.316			
CROSS SECTIONAL AREA	SQ IN	0.0608			
WEIGHT OF CONDUCTOR	LB/FT	0.091			
WEIGHT OF CATENARY	LB/FT	0.091			
RADIAL THICKNESS OF ICE (1/4 ICE)	IN	0.250			
WEIGHT OF ICE (1/4 ICE)	LB/FT	0.176			
WEIGHT OF CATENARY WITH ICE (1/4 ICE)	LB/FT	0.267			
RADIAL THICKNESS OF ICE (1/2 ICE)	IN	0.500			
WEIGHT OF ICE (1/2 ICE)	LB/FT	0.507			
WEIGHT OF CATENARY WITH ICE (1/2 ICE)	LB/FT	0.598			
BREAKING LOAD	LB	2,850			
MAXIMUM SPAN / EQUIVALENT SPAN	FT	110			
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	140
C2 (HOT)	120	0	0.000	LB	74
C3 (NESC LIGHT)	30	60	0.000	LB	410
C4 (ICE)	30	40	0.250	LB	459
C5 (COLD)	0	0	0.000	LB	445
C6 (HIGH WIND)	60	140	0.000	LB	845
CONDUCTOR SAGS ON 110 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	0.98
C2 (HOT)	120	0	0	FT	1.85
C3 (NESC LIGHT)	30	60	0.00	FT	1.14
C4 (ICE)	30	40	0.25	FT	1.27
C5 (COLD)	0	0	0.00	FT	0.31
C6 (HIGH WIND)	60	140	0	FT	2.37
MODULUS OF ELASTICITY			PSI	1.132E+07	
COEFFICIENT OF EXPANSION			/F	1.058E-05	
MINIMUM FACTOR OF SAFETY				3.37	
Design Temp			°F	60	
Wind Factors				1.00	
Density of Ice			#/FT³	57	

WIRE TENSIONS (CONDITION 1)

TEMP	LOADED TENSION	SAG (FT)
-20 °F	584	0.24
-10 °F	514	0.27
0 °F	445	0.31
10 °F	377	0.36
15 °F	345	0.40
20 °F	314	0.44
30 °F	256	0.54
32 °F	245	0.56
40 °F	206	0.67
50 °F	168	0.82
60 °F	140	0.98
70 °F	120	1.15
80 °F	108	1.30
90 °F	95	1.45
100 °F	86	1.59
110 °F	80	1.72
120 °F	74	1.85
165 °F	59	2.34

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

JACOBS

ELECTRICAL
OVERHEAD LINE
DETAILS

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021
PROJ D3226100
DWG 06-E-5003
SHEET 052 of 270

GT YARBERRY
APVD
BY
CHK
REVISION
A PASTRANA
DR
J RABON
NO. DATE
DSGN

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FILENAME: 06-E-5003_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 6:55:56 AM

CONFORMED DOCUMENTS

POLE P-12 TO P-16

#2 SPARROW, ACSR					
DESIGN ITEM		UNITS	#2 SPARROW, ACSR		
MAKE UP OF CONDUCTOR			ACSR 6/1		
MATERIAL			ACSR		
DIAMETER			IN	0.316	
CROSS SECTIONAL AREA			SQ IN	0.0608	
WEIGHT OF CONDUCTOR			LB/FT	0.091	
WEIGHT OF CATENARY			LB/FT	0.091	
RADIAL THICKNESS OF ICE (1/4 ICE)			IN	0.250	
WEIGHT OF ICE (1/4 ICE)			LB/FT	0.176	
WEIGHT OF CATENARY WITH ICE (1/4 ICE)			LB/FT	0.267	
RADIAL THICKNESS OF ICE (1/2 ICE)			IN	0.500	
WEIGHT OF ICE (1/2 ICE)			LB/FT	0.507	
WEIGHT OF CATENARY WITH ICE (1/2 ICE)			LB/FT	0.598	
BREAKING LOAD			LB	2,850	
MAXIMUM SPAN / EQUIVALENT SPAN			FT	143	
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	140
C2 (HOT)	120	0	0.000	LB	88
C3 (NESC LIGHT)	30	60	0.000	LB	423
C4 (ICE)	30	40	0.250	LB	484
C5 (COLD)	0	0	0.000	LB	365
C6 (HIGH WIND)	60	140	0.000	LB	975
CONDUCTOR SAGS ON 143 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	1.66
C2 (HOT)	120	0	0	FT	2.65
C3 (NESC LIGHT)	30	60	0.00	FT	1.87
C4 (ICE)	30	40	0.25	FT	2.04
C5 (COLD)	0	0	0.00	FT	0.64
C6 (HIGH WIND)	60	140	0	FT	3.47
MODULUS OF ELASTICITY				PSI	1.132E+07
COEFFICIENT OF EXPANSION				/°F	1.058E-05
MINIMUM FACTOR OF SAFETY					2.92
Design Temp				°F	60
Wind Factors					1.00
Density of Ice				#/FT³	57

WIRE TENSIONS (CONDITION 1)		
TEMP	LOADED TENSION	SAG (FT)
-20 °F	494	0.47
-10 °F	428	0.54
0 °F	365	0.64
10 °F	307	0.76
15 °F	281	0.83
20 °F	257	0.91
30 °F	215	1.08
32 °F	208	1.12
40 °F	183	1.27
50 °F	158	1.47
60 °F	140	1.66
70 °F	126	1.85
80 °F	115	2.03
90 °F	106	2.19
100 °F	99	2.35
110 °F	93	2.51
120 °F	88	2.65
165 °F	72	3.24

POLE P-18 TO P-20

#2 SPARROW, ACSR

DESIGN ITEM	UNITS	#2 SPARROW, ACSR			
MAKE UP OF CONDUCTOR		ACSR 6/1			
MATERIAL		ACSR			
DIAMETER	IN	0.316			
CROSS SECTIONAL AREA	SQ IN	0.0608			
WEIGHT OF CONDUCTOR	LB/FT	0.091			
WEIGHT OF CATENARY	LB/FT	0.091			
RADIAL THICKNESS OF ICE (1/4 ICE)	IN	0.250			
WEIGHT OF ICE (1/4 ICE)	LB/FT	0.176			
WEIGHT OF CATENARY WITH ICE (1/4 ICE)	LB/FT	0.267			
RADIAL THICKNESS OF ICE (1/2 ICE)	IN	0.500			
WEIGHT OF ICE (1/2 ICE)	LB/FT	0.507			
WEIGHT OF CATENARY WITH ICE (1/2 ICE)	LB/FT	0.598			
BREAKING LOAD	LB	2,850			
MAXIMUM SPAN / EQUIVALENT SPAN	FT	158			
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	140
C2 (HOT)	120	0	0.000	LB	93
C3 (NESC LIGHT)	30	60	0.000	LB	429
C4 (ICE)	30	40	0.250	LB	493
C5 (COLD)	0	0	0.000	LB	329
C6 (HIGH WIND)	60	140	0.000	LB	1,027
CONDUCTOR SAGS ON 158 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	2.03
C2 (HOT)	120	0	0	FT	3.07
C3 (NESC LIGHT)	30	60	0.00	FT	2.25
C4 (ICE)	30	40	0.25	FT	2.44
C5 (COLD)	0	0	0.00	FT	0.86
C6 (HIGH WIND)	60	140	0	FT	4.02
MODULUS OF ELASTICITY				PSI	1.132E+07
COEFFICIENT OF EXPANSION				/°F	1.058E-05
MINIMUM FACTOR OF SAFETY					2.77
Design Temp				°F	60
Wind Factors					1.00
Density of Ice				#/FT³	57

WIRE TENSIONS (CONDITION 1)		
TEMP	LOADED TENSION	SAG (FT)
-20 °F	449	0.83
-10 °F	387	0.73
0 °F	329	0.86
10 °F	278	1.02
15 °F	256	1.11
20 °F	236	1.21
30 °F	202	1.41
32 °F	196	1.45
40 °F	176	1.62
50 °F	155	1.83
60 °F	140	2.03
70 °F	128	2.22
80 °F	118	2.41
90 °F	110	2.58
100 °F	103	2.75
110 °F	97	2.91
120 °F	93	3.07
165 °F	77	3.69

POLE P-16 TO P-17

#2 SPARROW, ACSR					
DESIGN ITEM			UNITS	#2 SPARROW, ACSR	
MAKE UP OF CONDUCTOR				ACSR 6/1	
MATERIAL				ACSR	
DIAMETER			IN	0.316	
CROSS SECTIONAL AREA			SQ IN	0.0608	
WEIGHT OF CONDUCTOR			LB/FT	0.091	
WEIGHT OF CATENARY			LB/FT	0.091	
RADIAL THICKNESS OF ICE (1/4 ICE)			IN	0.250	
WEIGHT OF ICE (1/4 ICE)			LB/FT	0.176	
WEIGHT OF CATENARY WITH ICE (1/4 ICE)			LB/FT	0.267	
RADIAL THICKNESS OF ICE (1/2 ICE)			IN	0.500	
WEIGHT OF ICE (1/2 ICE)			LB/FT	0.507	
WEIGHT OF CATENARY WITH ICE (1/2 ICE)			LB/FT	0.598	
BREAKING LOAD			LB	2,850	
MAXIMUM SPAN / EQUIVALENT SPAN			FT	178	
TENSIONS AT LOADING CONDITIONS					
CONDITION	TEMP	WIND	ICE		
C1 (BASE)	60	0	0.000	LB	140
C2 (HOT)	120	0	0.000	LB	98
C3 (NESC LIGHT)	30	60	0.000	LB	435
C4 (ICE)	30	40	0.250	LB	505
C5 (COLD)	0	0	0.000	LB	285
C6 (HIGH WIND)	60	140	0.000	LB	1,092
CONDUCTOR SAGS ON 178 FT SPAN AT:					
	TEMP	WIND	ICE		
C1 (BASE)	60	0	0	FT	2.57
C2 (HOT)	120	0	0	FT	3.67
C3 (NESC LIGHT)	30	60	0.00	FT	2.82
C4 (ICE)	30	40	0.25	FT	3.03
C5 (COLD)	0	0	0.00	FT	1.26
C6 (HIGH WIND)	60	140	0	FT	4.80
MODULUS OF ELASTICITY				PSI	1.132E+07
COEFFICIENT OF EXPANSION				/°F	1.058E-05
MINIMUM FACTOR OF SAFETY					2.61
Design Temp				°F	60
Wind Factors					1.00
Density of Ice				#/FT³	57

WIRE TENSIONS (CONDITION 1)		
TEMP	LOADED TENSION	SAG (FT)
-20 °F	388	0.93
-10 °F	333	1.08
0 °F	285	1.26
10 °F	245	1.47
15 °F	228	1.58
20 °F	213	1.69
30 °F	188	1.92
32 °F	183	1.96
40 °F	168	2.14
50 °F	152	2.36
60 °F	140	2.57
70 °F	130	2.78
80 °F	121	2.97
90 °F	114	3.15
100 °F	108	3.33
110 °F	103	3.50
120 °F	98	3.67
165 °F	83	4.34

POLE NO	STRING CONDUCTORS	NEW POLE	PRIMARY & NEUTRAL	SECONDARY	TRANSFORMER	GUYS JE1.1	ANCHOR JF2.6	OTHER
P-0								EXISTING UTILITY COMPANY POLE WITH BUCK ARM. DEADEND NEW PHASES AND NEUTRAL TO EXISTING INSULATORS.
P-1								EXISTING POLE WITH CUTOUTS AND PRIMARY METERING. REPLACE FUSES WITH 200E. DOUBLE-DEADEND NEW PHASES AND NEUTRAL TO EXISTING INSULATORS.
P-1A						1	1	EXISTING POLE WITH 3 PHASE SWITCH. DOUBLE-DEADEND NEW PHASES AND NEUTRAL TO EXISTING INSULATORS. SLACK-SPAN FROM POLE P-1A TO POLE P-1 AND FROM POLE P-1 TO POLE P-0.
P-2								EXISTING TANGENT POLE WITH CAPACITOR BANK.
P-3						1	1	EXISTING VERTICAL ANGLE POLE - INSTALL NEW ANCHOR 4 FEET OUTSIDE OF EXISTING. LEAVE EXISTING ANCHOR IN PLACE.
P-4								EXISTING POLE WITH BUCKARM FOR 3 PHASE TAP LINE. REMOVE TAP LINE. NEW RISER PER DETAIL JUC1, FUSE AT 80E.
P-0 THRU P-4	PRIMARY - 3 X #1/0 ACSR. NEUTRAL - 1 X #2 ACSR							CHECK EXISTING NEUTRAL - MAY ALREADY BE #2 ACSR
P-5								REMOVE POLE, ANCHOR, GUY AND ALL ATTACHMENTS
P-6								REMOVE POLE AND ALL ATTACHMENTS - REMOVE CAPACITOR BANK AND RELOCATE TO POLE P-13
P-7								REMOVE POLE AND ALL ATTACHMENTS
P-8			JVC5.21			1	1	REMOVE WIRE FROM WEST AND DEADEND NEW WIRE FROM EAST - REMOVE EXISTING ANCHOR AND GUY - RECONNECT EXISTING RISER
P-4 THRU P-8	REMOVE EXISTING PHASES AND NEUTRAL							
P-9								EXISTING TANGENT POLE. NEW RISER PER DETAIL JUC1, FUSE AT 80E.
P-10								EXISTING TANGENT POLE WITH EXISTING RISER.
P-11								EXISTING TANGENT POLE WITH EXISTING RISER.
P-12						1	1	EXISTING LINE & BUCK CORNER POLE. INSTALL 25 KV LINE CUTOUTS ON BUCK ARM. FUSE AT 150E. INSTALL NEW ANCHOR TO HOLD NEW #1/0 ACSR.
P-4 THRU P-12	PRIMARY - 3 X #1/0 ACSR. NEUTRAL - 1 X #2 ACSR							CHECK EXISTING NEUTRAL - MAY ALREADY BE #2 ACSR - REMOVE EXISTING #2 AWG ACSR PHASE CONDUCTORS
P-4 TO P-9 TO P-10								REMOVE EXISTING SECONDARY IF IDLE
P-13								EXISTING TANGENT POLE. RE-INSTALL CAPACITOR BANK REMOVED FROM POLE P-6.
P-14			JVC6.21					EXISTING DEADEND POLE - REMOVE EXISTING ANCHOR AND GUY
P-12 THRU P-14								EXISTING #2 AWG ACSR TO REMAIN.
P-15		1-50' - CL 4	JVC6.91G			2	2	REMOVE EXISTING POLE WITH CAMERA, ETC. - SEE KEYNOTE 2
P-16		1-50' - CL 4	JVC6.91G			2	2	
P-17		1-50' - CL 4	JVC3.21			1	1	SLACK-SPAN TO POLE P-18
P-18		1-50' - CL 4	JVC6.91G			1	1	SLACK-SPAN TO POLE P-17
P-19		1-50' - CL 4	JVC1.13					
P-20		1-50' - CL 4	JVC6.91G			2	2	
P-21		1-50' - CL 4	JVC6.91G			2	2	
P-22		1-50' - CL 4	JVC1.13					
P-14 THRU P-22	PRIMARY - 3 X #2 ACSR. NEUTRAL - 1 X #2 ACSR							

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 06-E-5004

SHEET 053 of 270

1

2

3

4

5

6

7

8

9

10

2605-420

23A

SECTION

NTS

1 = [1"C, [P15] FROM NE EXIT GATE TO PANEL 'P']

2 = [1"C, [P15] FROM POLE #11 TO PANEL 'P']

3 = [1"C, [P15] FROM POLE #12 TO PANEL 'P']

4 = [2"C, [FIBER OPTIC] FROM FOPP-18 TO FOPP-17]
[FIBER OPTIC] FROM FROM 20-FOPP-2 FOPP-18]

5 = [1 1/2"C, [C24] FROM TJB 'P9A' TO 82-CP-1]

6 = [1"C, [C16] FROM TJB 'P9B' TO 82-CP-1]

7 = [1"C, [C10] FROM TJB '10A' AND TJB '10B' TO 82-CP-1]

8 = [2"C, [A14] FROM TJB '10C' TO 82-CP-1] (SST CONDUIT)

9 = [2"C, [FIBER OPTIC] FROM 20-FOPP-1 TO 82-FOPP-1]
[FIBER OPTIC] FROM 82-FOPP-1 TO 83-FOPP-1]

10 = [2"C, [FIBER OPTIC] FROM ADMIN BLDG SERVER RACK TO 82-FOPP-1]

1

2

2605-420

36A

SECTION

NTS

1 = [2"C, [FIBER OPTIC] FROM 82-FOPP-1 TO 83-FOPP-1]

2 = [2"C, [FIBER OPTIC] FROM FOPP-13 TO FOPP-12]

1

2

3

2605-420

38A

SECTION

NTS

1 = [2"C, [FIBER OPTIC] FROM 82-FOPP-1 TO 83-FOPP-1]

2 = [2"C, [FIBER OPTIC] FROM FOPP-13 TO FOPP-12]

3 = [2"C, [FIBER OPTIC] FROM FOPP-12 TO FOPP-11]

1

2

2605-420

39A

SECTION

NTS

1 = [2"C, [FIBER OPTIC] FROM 82-FOPP-1 TO 83-FOPP-1]
[FIBER OPTIC] FROM 83-FOPP-1 TO 91-FOPP-1]

2 = [2"C, [FIBER OPTIC] FROM FOPP-13 TO FOPP-12]
[FIBER OPTIC] FROM FOPP-12 TO FOPP-11]

1

2

2605-420

28A

SECTION

NTS

1 = [1"C, [P15] FROM POLE #11 TO PANEL 'P']

2 = [2"C, [FIBER OPTIC] FROM FOPP-17 TO FOPP-16]
[FIBER OPTIC] FROM 82-FOPP-1 TO 83-FOPP-1]

1

2

2605-420

30A

SECTION

NTS

1 = [1"C, [P15] FROM POLE #11 TO PANEL 'P']

2 = [2"C, [FIBER OPTIC] FROM FOPP-17 TO FOPP-16]
[FIBER OPTIC] FROM FOPP-16 TO FOPP-13]

1

2

2605-420

34A

SECTION

NTS

1 = [2"C, [FIBER OPTIC] FROM 82-FOPP-1 TO 83-FOPP-1]

2 = [2"C, [FIBER OPTIC] FROM FOPP-16 TO FOPP-13]

1

2605-420

35A

SECTION

NTS

1 = [2"C, [FIBER OPTIC] FROM FOPP-16 TO FOPP-13]
[FIBER OPTIC] FROM FOPP-13 TO FOPP-12]

PANEL: 06MPZ-1

SERVICE VOLTAGE: 120/240V

TOTAL LOAD KVA: 0.5

REMARKS: NEMA 3R Enclosure

LOCATION: Rack Near Site Security Pole #03

PHASE: 1

BUS SIZE: 50A

NEUTRAL:

WIRE: 3

PRIMARY MAIN SIZE: 40A

SECONDARY MAIN SIZE: 60A

MOUNTING: RACK

TYPE: BREAKER

LOAD IN KVA		CIRCUIT DESCRIPTION				LOAD IN KVA	
A	B					A	B
0.5		CP-SC-SWP-06	20/1	1	2 20/1	SPARE	
		SPARE	20/1	3	4 20/1	SPARE	
		SPARE	20/1	5	6 20/1	SPARE	
		SPARE	20/1	7	8 20/1	SPARE	
		SPARE	20/1	9	10 20/1	SPARE	
		SPARE	20/1	11	12 20/1	SPARE	
0.5	0.0	TOTAL				0.0	0.0

PANEL: 06MPZ-2

SERVICE VOLTAGE: 120/240V

TOTAL LOAD KVA: 0.5

REMARKS: NEMA 3R Enclosure

LOCATION: Rack Near Site Security Pole #05

PHASE: 1

BUS SIZE: 50A

NEUTRAL:

WIRE: 3

PRIMARY MAIN SIZE: 40A

SECONDARY MAIN SIZE: 60A

MOUNTING: RACK

TYPE: BREAKER

LOAD IN KVA		CIRCUIT DESCRIPTION				LOAD IN KVA	
A	B					A	B
0.5		CP-SC-SWP-08	20/1	1	2 20/1	SPARE	
		SPARE	20/1	3	4 20/1	SPARE	
		SPARE	20/1	5	6 20/1	SPARE	
		SPARE	20/1	7	8 20/1	SPARE	
		SPARE	20/1	9	10 20/1	SPARE	
		SPARE	20/1	11	12 20/1	SPARE	
0.5	0.0	TOTAL				0.0	0.0

25 WEST CEDAR STREET, SUITE 350

PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

DATE

PROJ

DWG

SHEET

MAY 2021

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057 of 270

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

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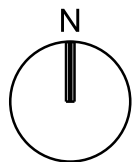
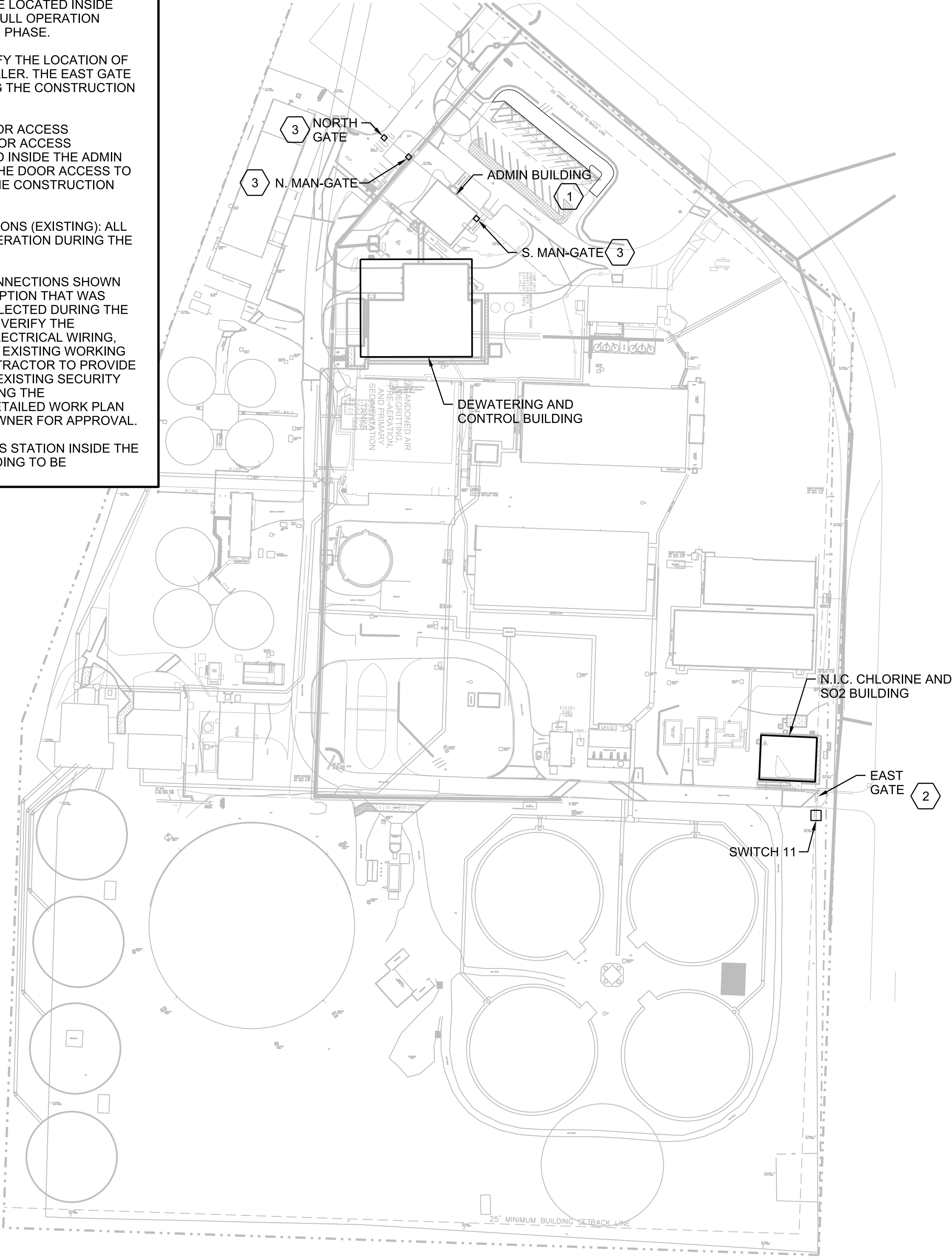
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GENERAL SHEET NOTES

1. CONTRACTOR TO PROVIDE A WORK PLAN TO KEEP THE EXISTING SECURITY SYSTEM IN OPERATION DURING THE CONSTRUCTION PHASE. THE SECURITY SYSTEM CONTAINS THE FOLLOWING:
- ACCESS CONTROL SYSTEM: TWO GATES (NORTH & EAST), TWO MAN-GATES (NORTH & SOUTH OF THE ADMIN BLDG), AND ONE ENTRY FRONT DOOR OF ADMIN BLDG.
- A DETAILED WORK PLAN TO BE SUBMITTED TO THE OWNER FOR APPROVAL.

SHEET KEYNOTES

1. THE EXISTING ACCESS CONTROL SYSTEM AND ALL ASSOCIATED HARDWARE ARE LOCATED INSIDE THE ADMIN BLDG. PROVIDE FULL OPERATION DURING THE CONSTRUCTION PHASE.
2. EAST GATE (EXISTING): VERIFY THE LOCATION OF THE GATE ACCESS CONTROLLER. THE EAST GATE TO BE IN OPERATION DURING THE CONSTRUCTION PHASE.
3. GATES, MAN-GATES AND DOOR ACCESS (EXISTING): THE GATES & DOOR ACCESS CONTROLLERS ARE LOCATED INSIDE THE ADMIN BUILDING. THE GATES AND THE DOOR ACCESS TO BE IN OPERATION DURING THE CONSTRUCTION PHASE.
4. GATE CONTROLS PUSH BUTTONS (EXISTING): ALL PUSH BUTTONS TO BE IN OPERATION DURING THE CONSTRUCTION PHASE.
5. THE EXISTING NETWORK CONNECTIONS SHOWN ON THIS SHEET IS AN ASSUMPTION THAT WAS BASED ON THE PHOTOS COLLECTED DURING THE SITE VISIT. CONTRACTOR TO VERIFY THE NETWORK CONNECTIONS, ELECTRICAL WIRING, AND THE LOCATIONS OF THE EXISTING WORKING SECURITY EQUIPMENT. CONTRACTOR TO PROVIDE A WORK PLAN TO KEEP THE EXISTING SECURITY SYSTEM IN OPERATION DURING THE CONSTRUCTION PHASE. A DETAILED WORK PLAN TO BE SUBMITTED TO THE OWNER FOR APPROVAL.
6. THE EXISTING PUSH BUTTONS STATION INSIDE THE EXISTING OPERATIONS BUILDING TO BE DEMOLISHED.

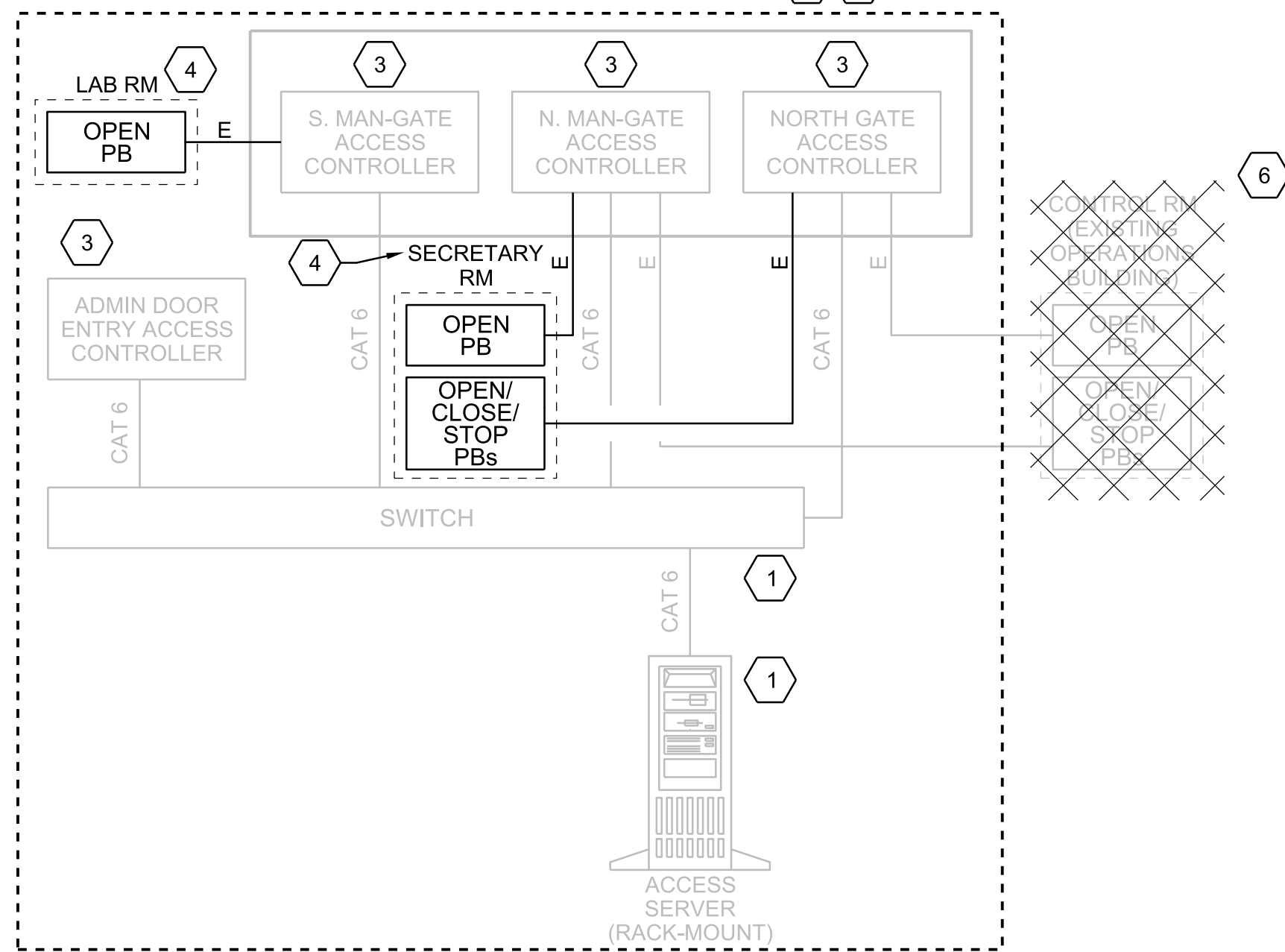


TEMPORARY SECURITY SYSTEM - SITE PLAN
NTS

LEGEND & ABBREVIATIONS

- CAT6 CATEGORY 6 NETWORK CABLE
- FP FIBER PATCH CABLE WITH ST CONNECTORS
- MM 12 STRAND MULTIMODE FIBER OPTIC CABLE
- E ELECTRICAL WIRES
- OR EXISTING
- FOPP FIBER OPTIC PATCH PANEL

ACCESS CONTROL SYSTEM
(INSIDE THE ADMIN. BLDG)



TEMPORARY SECURITY SYSTEM - NETWORK DIAGRAM
NTS

Jacobs

SECURITY
TEMPORARY SECURITY SYSTEM
SITE PLAN AND NETWORK DIAGRAM

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 1"	
DATE	MAY 2021
PROJ	D3226100
DWG	06-TY-2001
SHEET	058 of 270

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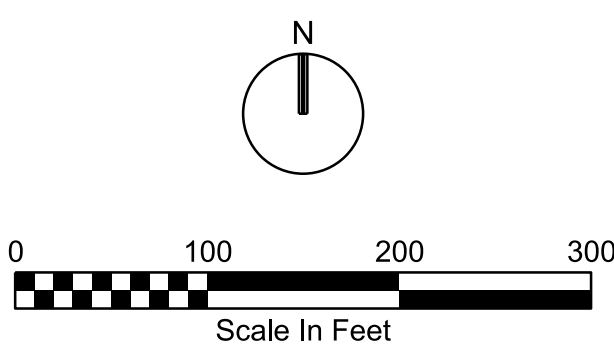
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F ABUJHLEH
DR
A PASTRANA
CHK
F GIST
AP/D
BY
AP/D
G YARBERRY

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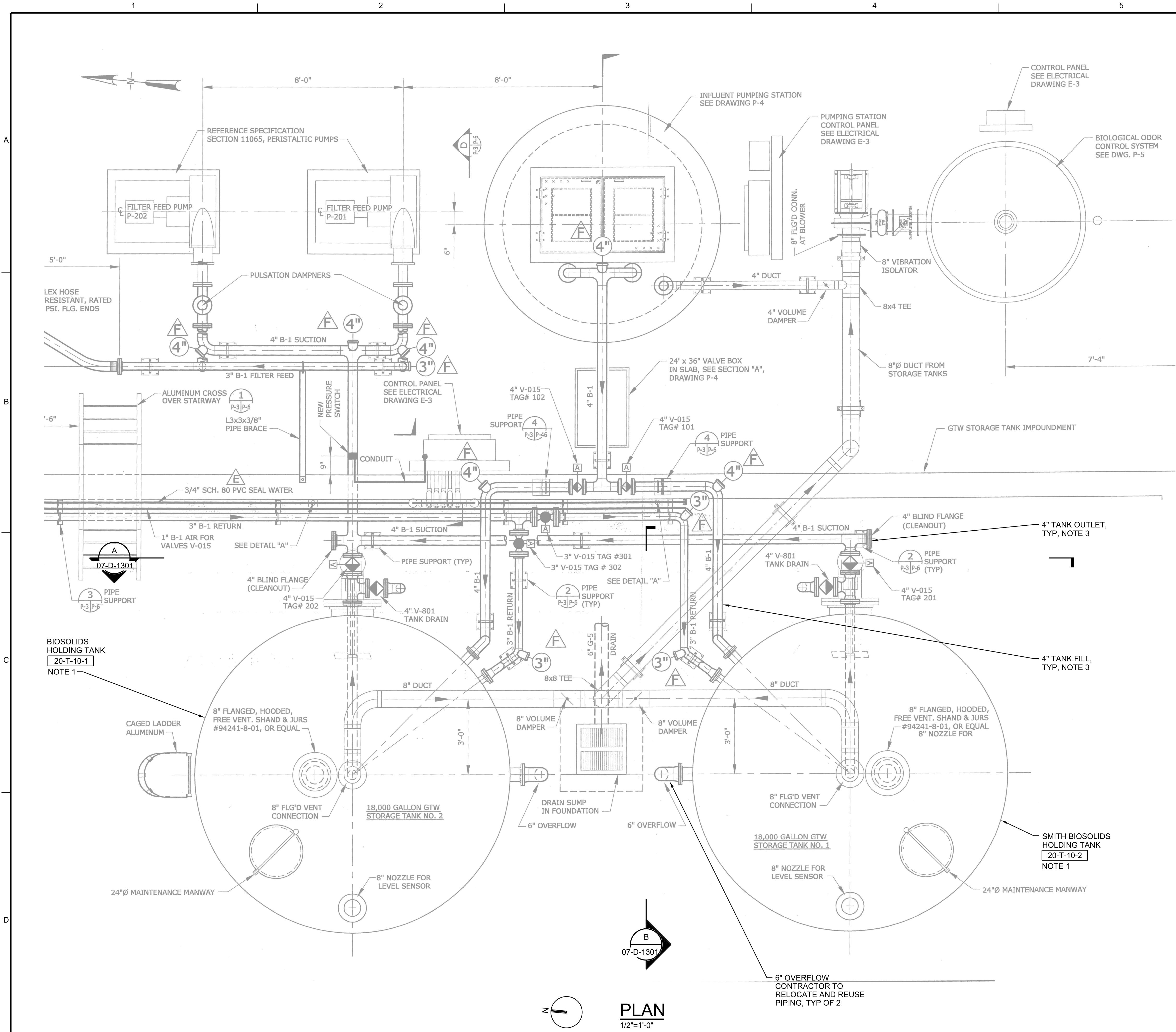
GENERAL NOTES

1. REFER TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT AND FIELD DEVICES. AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER. FOR SECURITY FIBER ROUTING AND PATHWAYS, REFER TO THE ELECTRICAL DRAWINGS.
3. EQUIPMENT, FIELD DEVICES CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.
4. MAWSO TO VERIFY AND CORRECT EXISTING DOOR FUNCTIONS TO ALLOW EMERGENCY EXITS AS APPROPRIATE PRIOR TO THE START OF THIS PROJECT.
5. DEMOLISH EXISTING SECURITY VIDEO SYSTEM AND ACCESS CONTROL SYSTEM (SERVERS, CAMERAS, ACCESS CONTROLLERS, SECURITY PANELS, SECURITY SWITCHES, WIRING, ETC.) AND RETURN TO OWNER.

SHEET KEYNOTES

1. INDOOR CAMERAS, ACCESS CONTROLS, AND SECURITY BOXES ARE CALLED-OUT IN THE BUILDING PLAN LAYOUTS. REFER TO THE FOLLOWING DRAWINGS:
 - DEWATERING & CONTROL BLDG: 20-TY-2001 & 20-TY-2002
 - CHLORINE & SO2 BLDG: 50-TY-2001, N.I.C.
 - ADMIN BLDG: 93-TY-2001
 - MAINTENANCE BLDG: 94-TY-2002
 - HEADWORKS BLDG: 91-TY-2001
 - GENERATOR BLDG: 83-TY-2001
 - BLOWER BLDG: 82-TY-2001.
2. REPLACE AND RELOCATE EXISTING ENTRY STANCHION WITH DUAL HEIGHT CARD READER STANCHION AT MAIN ENTRY GATE WITH (2) CARD READERS, (2) INTERCOM SUBSTATIONS AND (2) EXTERIOR, FIXED CAMERAS, MOUNTED ON CARD READER STANCHION, VIEWING DRIVER(S). PROVIDE STATUS CONTACT FOR GATE, AND GATE OPERATOR PERMISSIVE OUTPUT SIGNAL. DEVICES TO BE WIRED TO THE SECURITY SWITCH BOX CP-SC-SWP-02, MOUNTED TO POLE #1. FOR A TYPICAL RISER DIAGRAM. REFER TO DWG 99-TY-5003 DETAIL NO. 11.
3. PROVIDE STANCHION WITH SINGLE HEIGHT EASTERN EXIT GATE WITH (1) "PUSH-TO-EXIT" PUSH BUTTON. PROVIDE STATUS CONTACT FOR GATE AND GATE OPERATOR PERMISSIVE OUTPUT SIGNAL. DEVICES TO BE WIRED TO THE SECURITY SWITCH BOX CP-SC-SWP-17, MOUNTED TO POLE #12. FOR A TYPICAL RISER DIAGRAM. REFER TO DRAWING 99-TY-5003 DETAIL NO. 10.
4. CAMERA POLES: FOR CAMERA POLES DETAILS AND TYPICAL RISER DIAGRAM. REFER TO DRAWING 99-TY-5004.
5. POLE NO. 6 (EXIST): REMOVE THE CAMERA POLE NO. 6 AND DEMOLISH THE EXISTING TWO CAMERAS, INCLUDING THE ASSOCIATED HARDWARE AND CONTROL PANEL AND INSTALL THE NEW CAMERAS ON THE POLE NO. 7.
6. EXISTING CAMERA POLES: REPLACE THE EXISTING SECURITY EQUIPMENT SUCH AS SECURITY CONTROL PANELS, SECURITY SWITCHES, SECURITY CAMERAS, AND LIGHTS WITH THE NEW EQUIPMENT. REUSE THE SAME POWER CIRCUIT AND WIRES TO FEED POWER TO THE NEW SECURITY EQUIPMENT.
7. POLE NO. 8 (EXIST): DEMOLISH THE EXISTING CAMERA ON POLE NO. 8, INCLUDING THE ASSOCIATED HARDWARE AND CONTROL PANEL AND INSTALL THE NEW CAMERA AND SECURITY CONTROL PANEL ON THE NEW POWER POLE NO. 15.
8. THE SURVEILLANCE CAMERAS SHOULD BE INSTALLED AT THE HEIGHT OF 8-10 FEET ABOVE THE GROUND, MINIMUM. CONTRACTOR TO COORDINATE WITH THE OWNER ON THE APPROPRIATE INSTALLATION HEIGHT FOR THE SECURITY CAMERAS, ESPECIALLY FOR SECURITY CAMERAS ON POLE 2 AND POLE 3, WHICH REQUIRE INSTALLATION AT HIGHER POSITIONS TO VIEW THE ROOF/TOP OF THE HEADWORKS AND THE CLARIFIERS ALONG WITH THE PERIMETER FENCES.

		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA		NO. DATE REVISION BY APVD		DSGN CHK A PASTRANA F GIST G YARBERRY	
SECURITY OVERALL SITE SECURITY PLAN									
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"									
DATE MAY 2021									
PROJ D3226100									
DWG 06-TY-2002									
SHEET 059 of 270									
PLOT TIME: 6:55:38 AM									



NOTES

- DISMANTLE AND RELOCATE EXISTING 18,000 GALLON GTW STORAGE TANKS FROM THE WRIGHT SMITH JR. WWTP, LOCATED AT 1875 CONCEPTION STREET, MOBILE, AL., TO THE CC WILLIAMS WWTP TO SERVE AS THE BIOSOLIDS HOLDING TANK AND THE SMITH BIOSOLIDS RECEIVING TANK.
- DISASSEMBLE ALL EXPOSED PIPING AND UNINSTALL ALL EQUIPMENT WITHIN THE CONTAINMENT BASIN. LEAVE ON SITE IN ORDERLY MANNER ALL MATERIALS NOT BEING REUSED AT THE C.C. WILLIAMS WWTP.
- RETAIN FOR REUSE EXISTING 4" TANK FILL AND SUCTION PIPING TO RELOCATE ALONG WITH TANK. CONTRACTOR TO REUSE THIS 4" PIPING FOR THE SMITH RECEIVING STATION PUMP DISCHARGE PIPING. SUPPLEMENT WITH NEW PIPING AS NEEDED.
- FOR AS-BUILT DRAWING SEE GREASE TRAP WASTE TREATMENT FACILITY WRIGHT SMITH, JR. WWTP - GTW INFLUENT PUMP STATION AND STORAGE TANKS PLAN - P3 JUNE 2009.
- SUPPLEMENTAL PIPING SHALL BE AS DESIGNATED FOR DS PIPING EXCEPT NOZZLES AND BLIND FLANGES TO BE CONNECTED TO STAINLESS STEEL SHALL BE STAINLESS STEEL. DISSIMILAR METALS MAY ONLY BE MATED AT FLANGED JOINTS WITH GASKETS SEPARATING THE MATERIALS.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

Jacobs
PROCESS MECHANICAL
**SMITH RECEIVING STATION
DEMOLITION PLAN**

SCALE	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"	
DATE	MAY 2021
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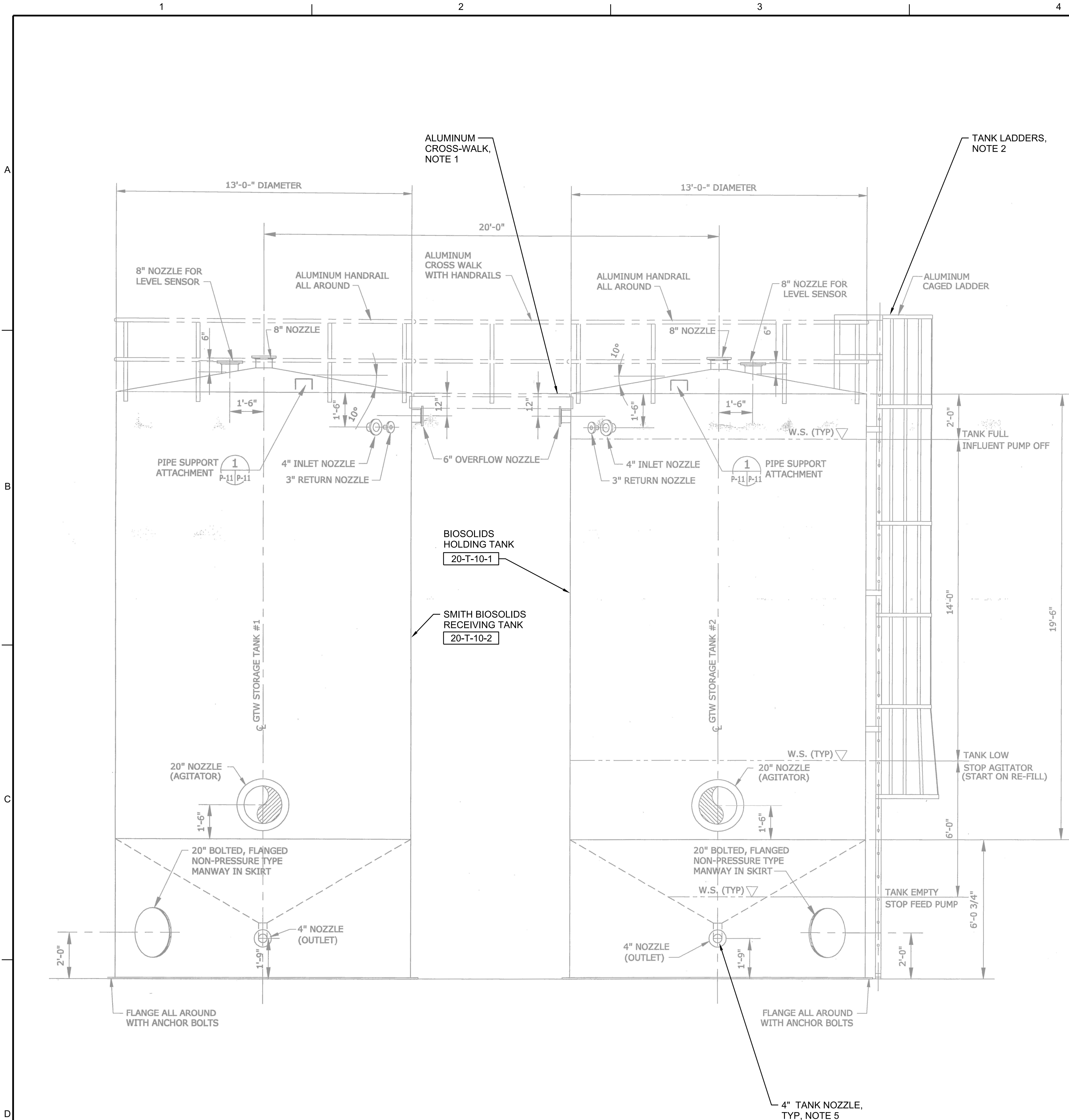
J. WILCOX

J. HORTON

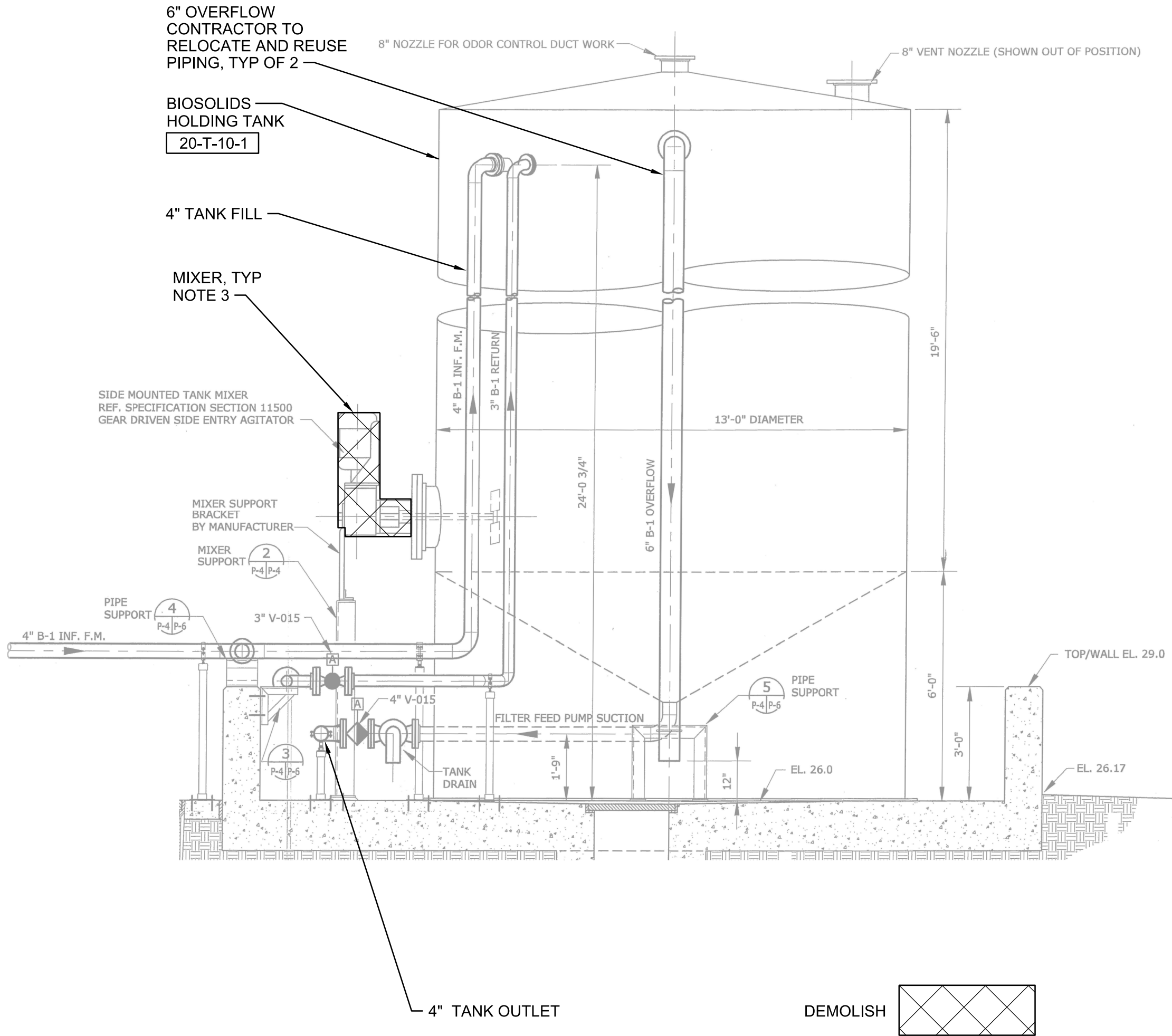
K. WADDELL

K. WADDELL

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A SECTION
3/8"=1'-0"
07-D-1001



B SECTION
3/8"=1'-0"
07-D-1001

- NOTES
1.

REUSE EXISTING ALUMINUM CROSS-WALK AND ALUMINUM CAGED LADDER.

2.

SUPPLY AND INSTALL SAFETY DEVICES AND SELF-RETRACTING LIFELINES FOR BOTH TANK LADDERS IN COMPLIANCE WITH OSHA 29 CFR 1926.

3.

REPLACE TANK AGITATORS PER SPECIFICATION SECTION 43 22 56.

4.

FOR AS-BUILT DRAWING SEE GREASE TRAP WASTE TREATMENT FACILITY WRIGHT SMITH, JR. WWTP - GTW INFLUENT PUMP STATION AND STORAGE TANKS SECTIONS AND DETAILS - P4 & P-11 JUNE 2009.

5.

REPLACE EXISTING 4" NOZZLE WITH A NEW 12" NOZZLE. CORE NEW HOLE THROUGH TANK SKIRT TO ALLOW FOR PIPE PENETRATION. SKIRT TO BE WELDED CLOSED AROUND NEW PIPE AND EXISTING PIPE PENETRATION OPENING TO BE SEALED CLOSED WITH NEW PIECE OF PAINTED STEEL TO MATCH EXISTING SKIRT. SEE STRUCTURAL DETAIL FOR NOZZLE COLLAR REINFORCING.

6.

NEW FILL CONNECTION NOZZLES TO BE ADDED TO TANKS AS SHOWN ON DRAWING 20-D-3004 AND 20-D-9002. EXISTING NOZZLES NOT REUSED TO BE CAPPED WITH BLIND FLANGES.

7.

EXISTING TANK SKIRTS TO BE PREPPED AND RECOATED. IN ACCORDANCE WITH SECTION 09 90 00, PAINTING AND COATING.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

PROCESS MECHANICAL

SMITH RECEIVING STATION
DEMOLITION SECTIONS

DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

DATE
MAY 2021

PROJ
D3226100

DWG
07-D-1301

SHEET
062 of 270

SCALE
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

NO. DATE DSGN

DR

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BY APVD

K WADDELL

J WILCOX

J HORTON

K WADDELL

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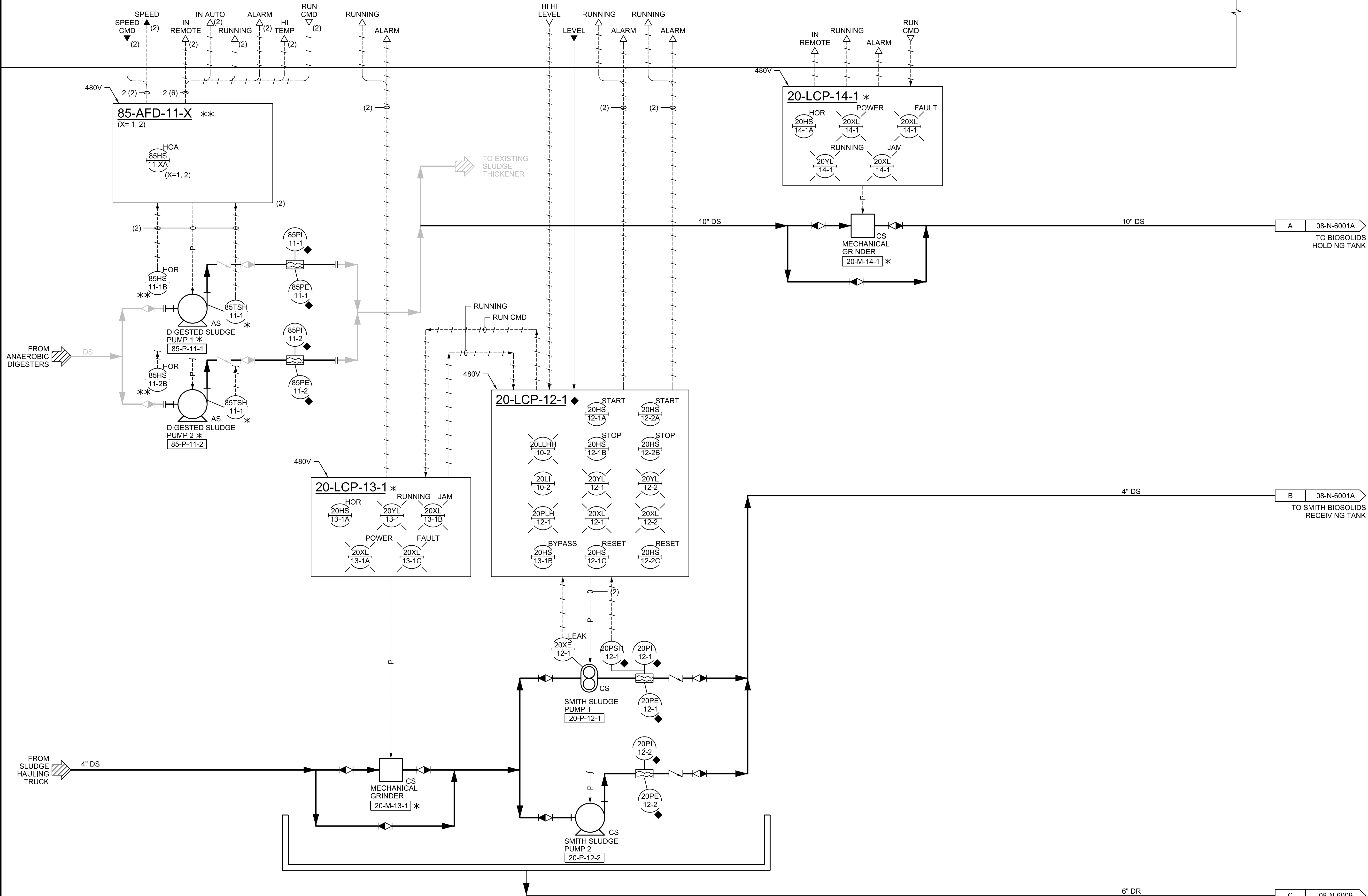
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25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

Jacobs
INSTRUMENTATION AND CONTROL
P&ID
DEWATERING
SLUDGE SYSTEM

NOT TO SCALE	
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A PASTRANA
C WILSON

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REVISION
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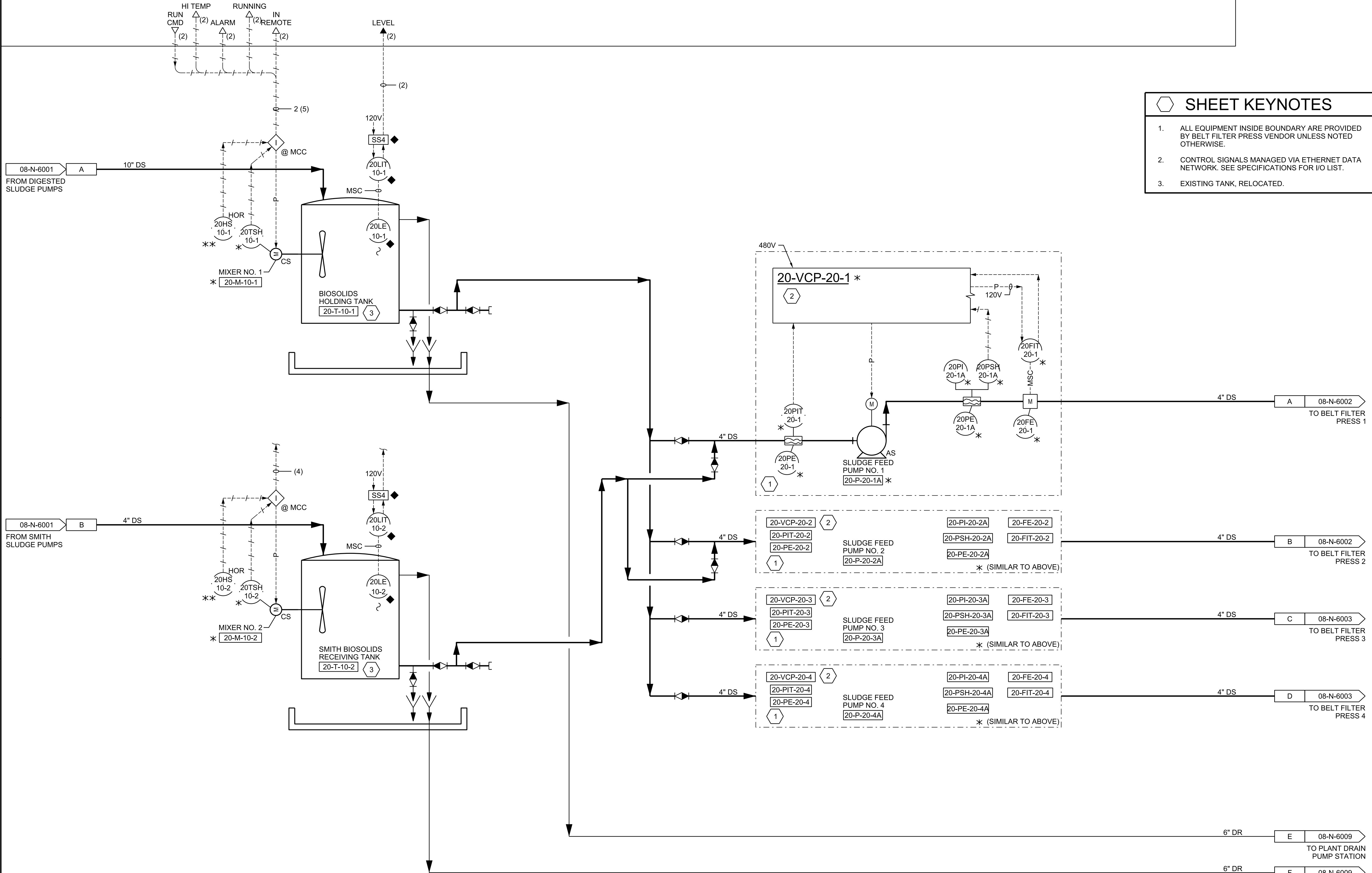
NO.
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DR
G GRAY

APVD
G GRAY

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20-CP-1 ◆



SHEET KEYNOTES

- ALL EQUIPMENT INSIDE BOUNDARY ARE PROVIDED BY BELT FILTER PRESS VENDOR UNLESS NOTED OTHERWISE.
- CONTROL SIGNALS MANAGED VIA ETHERNET DATA NETWORK. SEE SPECIFICATIONS FOR I/O LIST.
- EXISTING TANK, RELOCATED.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

INSTRUMENTATION AND CONTROL
P&ID

DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

DEWATERING
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NOT TO SCALE
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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DATE MAY 2021
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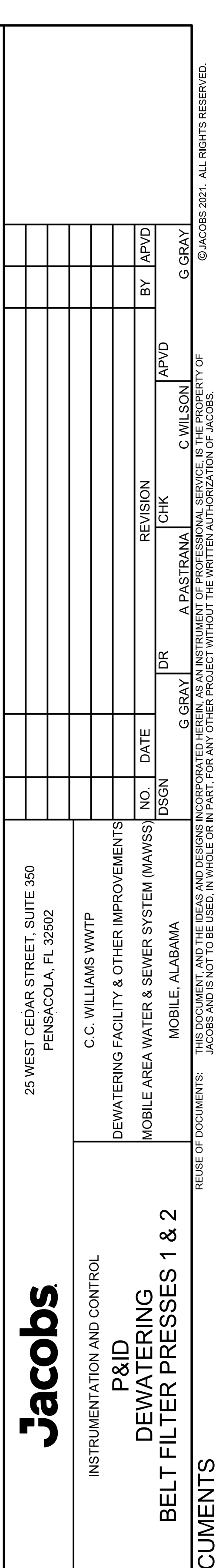
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DR A PASTRANA
G GRAY

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G GRAY

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2. TO SCADA CORE SWITCH. SEE 08-N-7001 FOR CONNECTION INFORMATION. CONTROL SIGNALS MANAGED VIA ETHERNET DATA NETWORK. SEE SPECIFICATION FOR I/O LIST.
3. WHERE NOTED, ANALOG CABLES SHALL BE SHIELDED, 3-WIRE CIRCUITS.

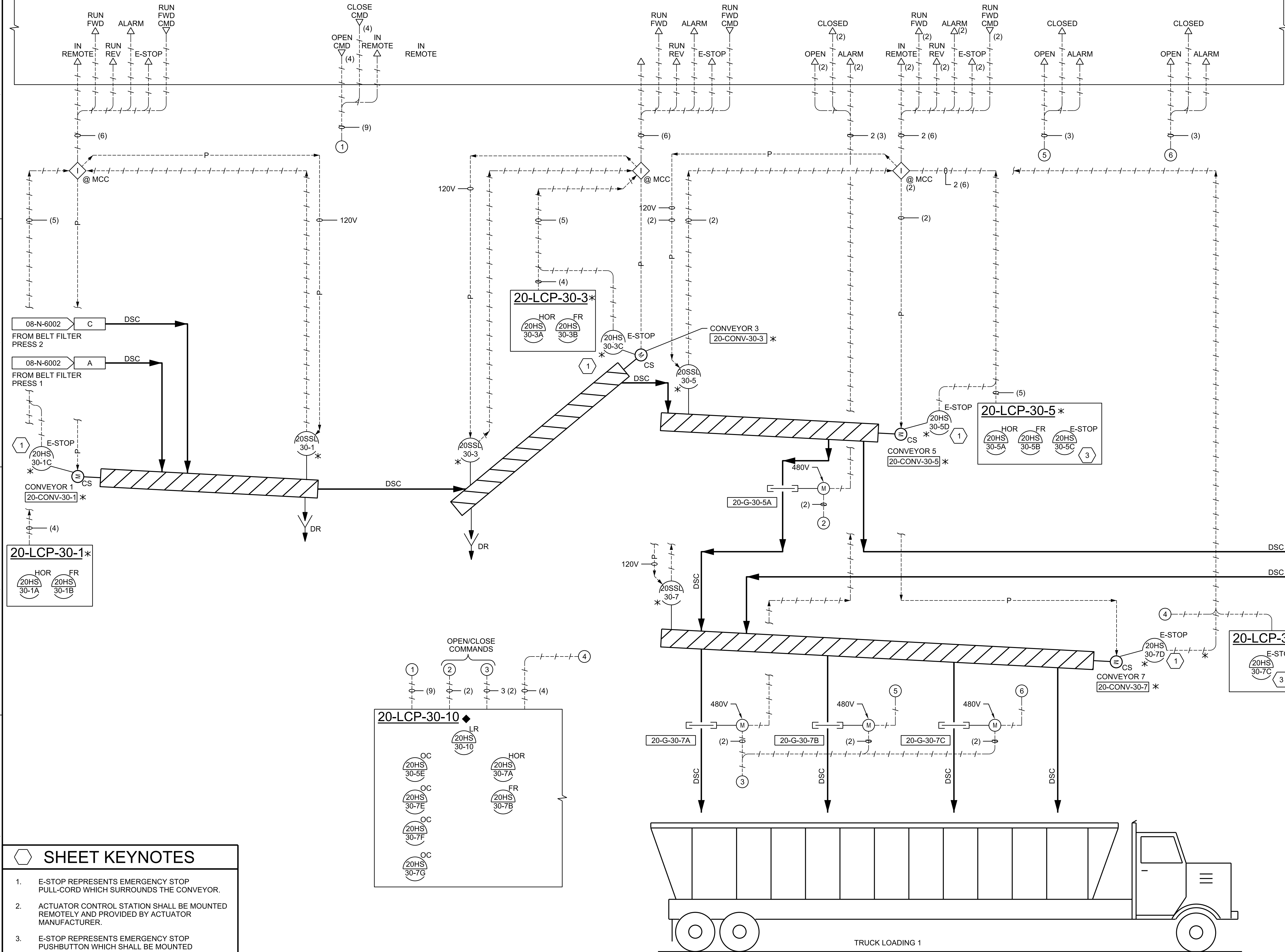
**P&ID
DEWATERING
BELT FILTER PRESSES 1 & 2**

CONFIRMED DOCUMENTS

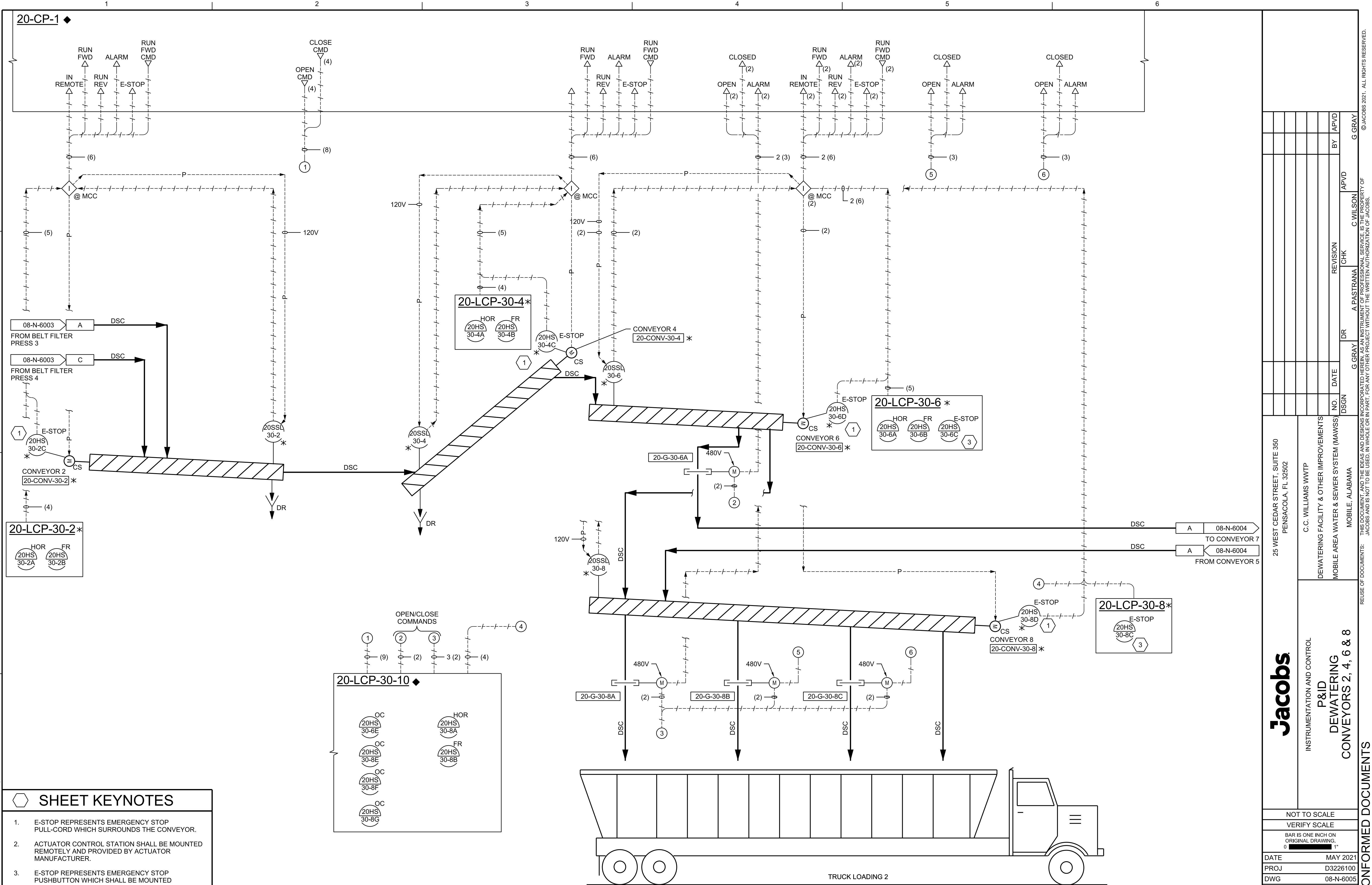
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PROJ	D3226100
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SHEET	065 of 270

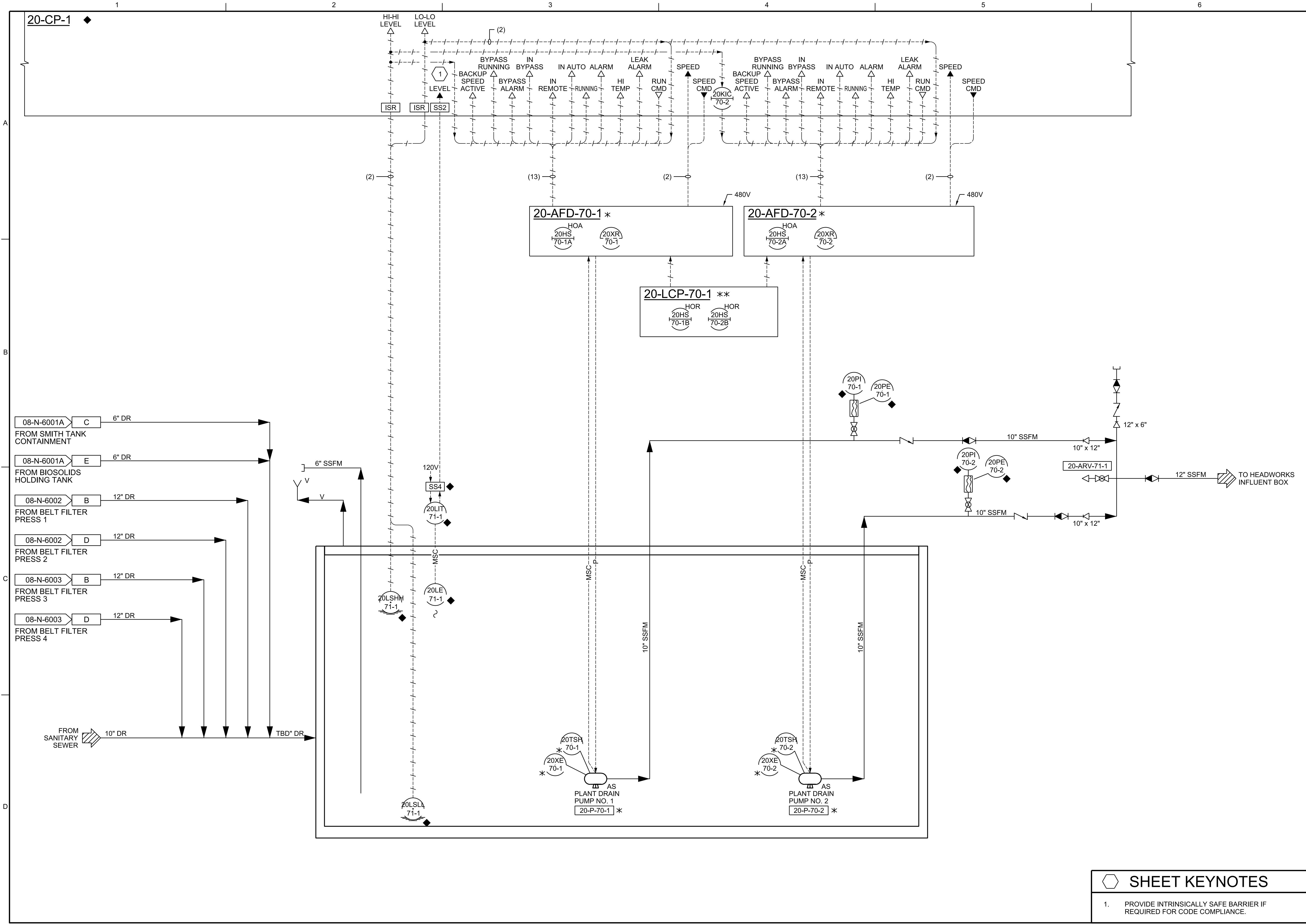


20-CP-1 ♦



<div>JACOBS</div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS		MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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JACOBS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

INSTRUMENTATION AND CONTROL
P&ID
PLANT DRAIN PUMP STATION

NOT TO SCALE
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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DATE: MAY 2021
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DR: G. GRAY
CHK: A. PASTRANA
REVISION: C. WILSON
BY: G. GRAY
APVD: G. GRAY

SHEET KEYNOTES	
1.	PROVIDE INTRINSICALLY SAFE BARRIER IF REQUIRED FOR CODE COMPLIANCE.

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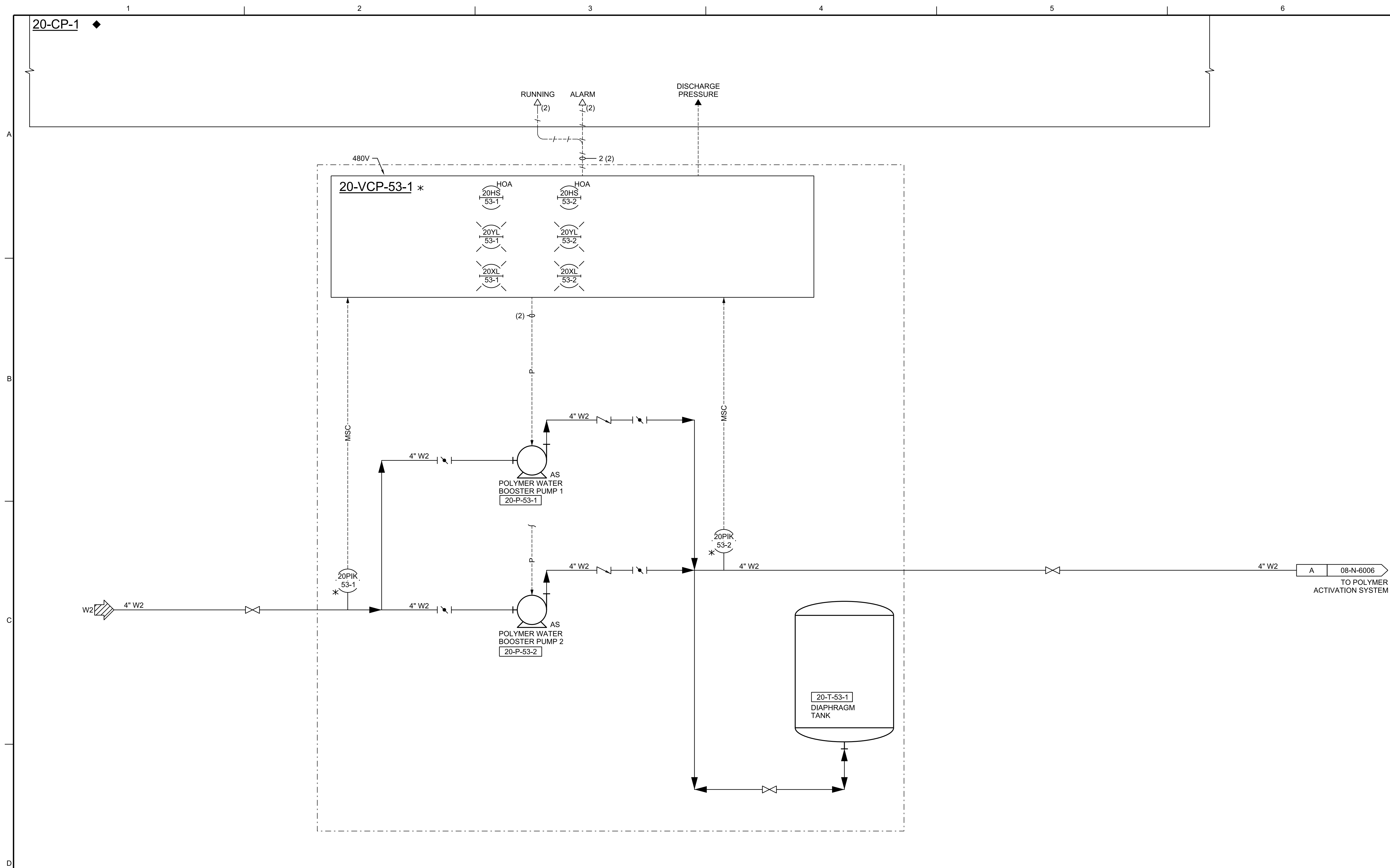
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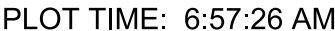
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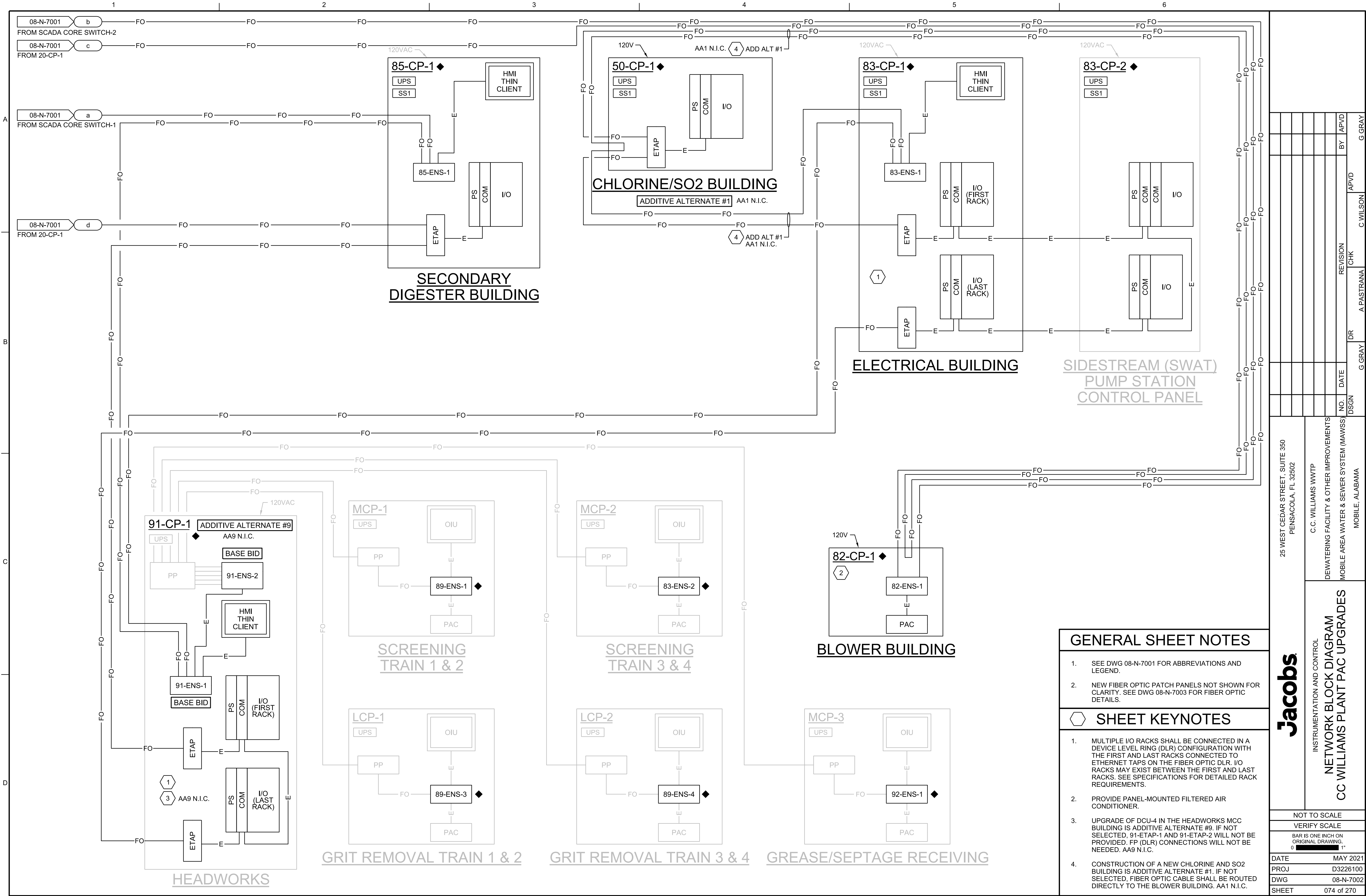
CONFORMED DOCUMENTS



<div><div>Jacobs</div><div>INSTRUMENTATION AND CONTROL P&ID</div><div>POLYMER BOOSTER WATER SYSTEM</div></div>	C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA	25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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GENERAL SHEET NOTES

- 1. SEE DWG 08-N-7001 FOR ABBREVIATIONS AND LEGEND.
- 2. NEW FIBER OPTIC PATCH PANELS NOT SHOWN FOR CLARITY. SEE DWG 08-N-7003 FOR FIBER OPTIC DETAILS.

SHEET KEYNOTES

- 1. MULTIPLE I/O RACKS SHALL BE CONNECTED IN A DEVICE LEVEL RING (DLR) CONFIGURATION WITH THE FIRST AND LAST RACKS CONNECTED TO ETHERNET TAPS ON THE FIBER OPTIC DLR. I/O RACKS MAY EXIST BETWEEN THE FIRST AND LAST RACKS. SEE SPECIFICATIONS FOR DETAILED RACK REQUIREMENTS.
- 2. PROVIDE PANEL-MOUNTED FILTERED AIR CONDITIONER.
- 3. UPGRADE OF DCU-4 IN THE HEADWORKS MCC BUILDING IS ADDITIVE ALTERNATE #9. IF NOT SELECTED, 91-ETAP-1 AND 91-ETAP-2 WILL NOT BE PROVIDED. FP (DLR) CONNECTIONS WILL NOT BE NEEDED. AA9 N.I.C.
- 4. CONSTRUCTION OF A NEW CHLORINE AND SO2 BUILDING IS ADDITIVE ALTERNATE #1. IF NOT SELECTED, FIBER OPTIC CABLE SHALL BE ROUTED DIRECTLY TO THE BLOWER BUILDING. AA1 N.I.C.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

CC WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

INSTRUMENTATION AND CONTROL
NETWORK BLOCK DIAGRAM
CC WILLIAMS PLANT PAC UPGRADES

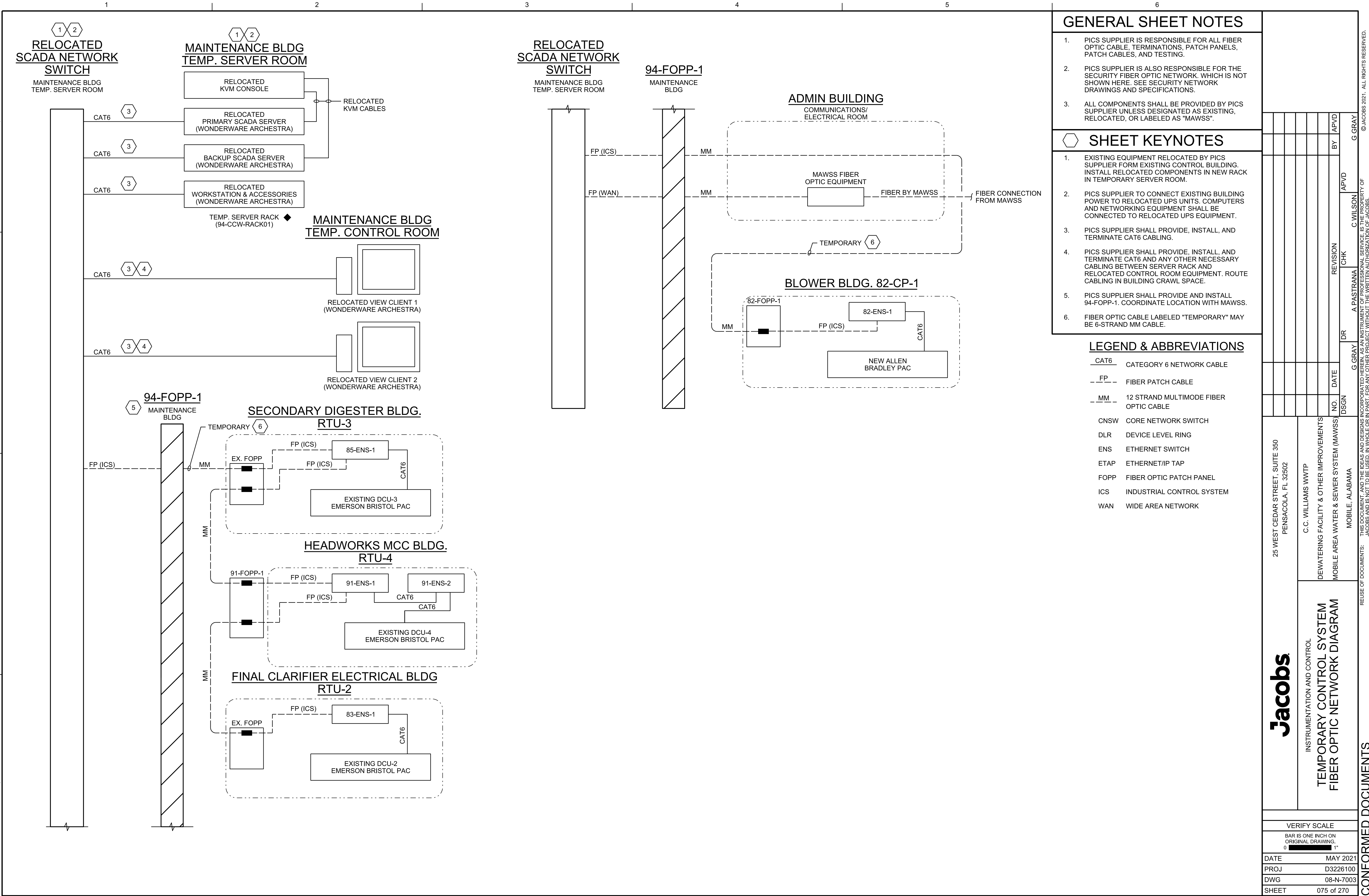
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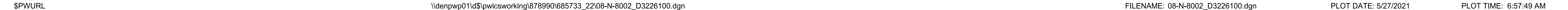
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DWG 08-N-7002
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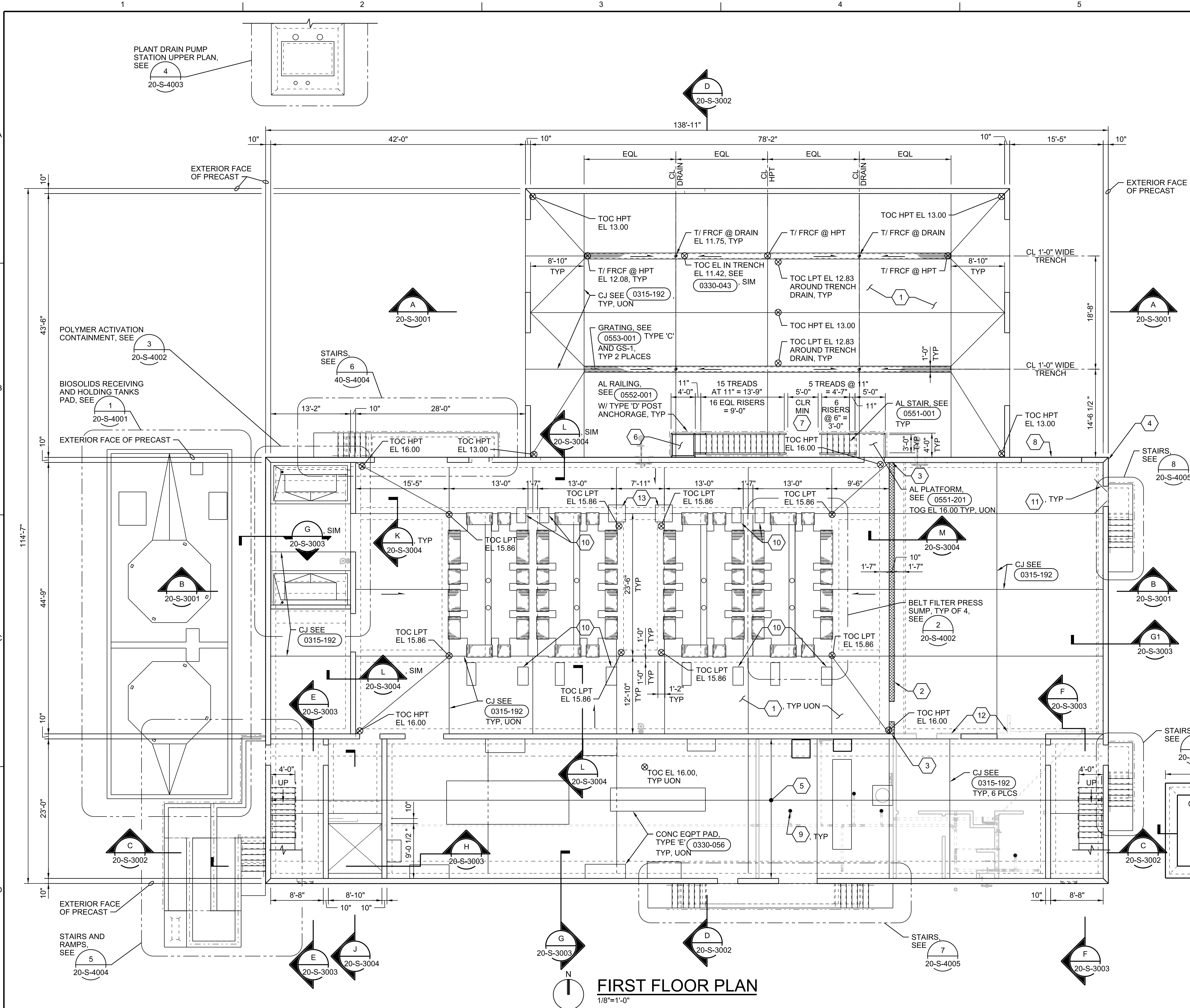
DR G GRAY
DGN G GRAY
NO. DATE
REVISION
CHK A PASTRANA
BY APVD C WILSON
APVD G GRAY

MOBILE, ALABAMA
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GENERAL SHEET NOTES

- FOR ADDITIONAL INFORMATION, SEE 20-S-2001.
- SEE OTHER DISCIPLINE DRAWINGS FOR PENETRATION INFORMATION IN PRECAST WALL, NOT SHOWN.
- ENCASE PROCESS PIPING UNDER SLABS AND FOUNDATIONS TO A POINT FIVE FEET BEYOND EXTERIOR EDGE PERIMETER FOUNDATIONS. SEE 0330-016 THROUGH 0330-018.
- POUR STRIP CONTRACTOR'S OPTION. ALL PRECAST WALLS SHALL BE FASTENED TO SUPPORTING CONCRETE PRIOR TO SLAB PLACEMENT OVER CONNECTIONS.

SHEET KEYNOTES

- SLAB CONSTRUCTION (UON):
 - 10" MIN SLAB ON GRADE
 - REINFORCED W/ #5@12" OC EW TOP AND BOTT.
 - OVER VAPOR RETARDER AND 6" LAYER OF COMPACTED GRANULAR FILL.
- 10" CMU WITH #5@24" OC CENTERED. SEE 5/20-S-5002 TYPE 'A' FOR WALL INFO. WALL TO BE REMOVED DURING CLASS A CONVERSION.
- CMU WALL CONNECTION TO PRECAST CONCRETE WALL, SEE 0422-011.
- 10" PRECAST WALL BY PRECAST MANUFACTURER, TYP.
- SLAB CONSTRUCTION:
 - 6" SLAB ON GRADE WITH #5@12" CANTERED EW
 - OVER VAPOR RETARDER AND 6" LAYER OF COMPACTED GRANULAR FILL.
- AL PLATFORM W/ ANGLE POSTS. SEE DETAIL 0551-201, SIM. TOG EL 22.00. PLATFORM SHALL NOT BE ATTACHED TO PRECAST PANEL.
- MINIMUM CLEARANCE BETWEEN GUARDRAILS/ HANDRAILS.
- KNOCK-OUT PANEL IN PRECAST WALL BY PRECAST SUPPLIER FOR FUTURE OVERHEAD COILING DOOR. COORDINATE OPNG SIZE AND LOCATION WITH ARCH DWGS AND APPROVED DOOR SUBMITTAL. KNOCK-OUT PANEL TO BE REMOVED DURING CLASS A CONVERSION.
- FLOOR DRAIN. SEE DET 0330-082.
- CONC EQPT PAD. SEE DET 0330-056, TYPE 'A'.
- PROVIDE #4x3'-0" LG RE-ENTRANT CORNER BAR AT ALL RE-ENTRANT CORNERS. LOCATE 2" CLR FROM TOP OF SLAB. BARS SHALL NOT CROSS SLAB JOINTS.
- TEMPORARY STUD WALLS TO BE REMOVED DURING CLASS A CONVERSION. SEE ARCH DWGS FOR WALL INFO.
- CONVEYOR SUPPORTS. COORDINATE SUPPORT LOCATIONS WITH BELT FILTER PRESS FOUNDATIONS AND SLAB JOINT LOCATIONS. SUPPORT ANCHORS SHALL MAINTAIN MINIMUM 6" EDGE DISTANCE FROM ALL JOINTS.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

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MOBILE, ALABAMA

DEWATERING FACILITY & OTHER IMPROVEMENTS

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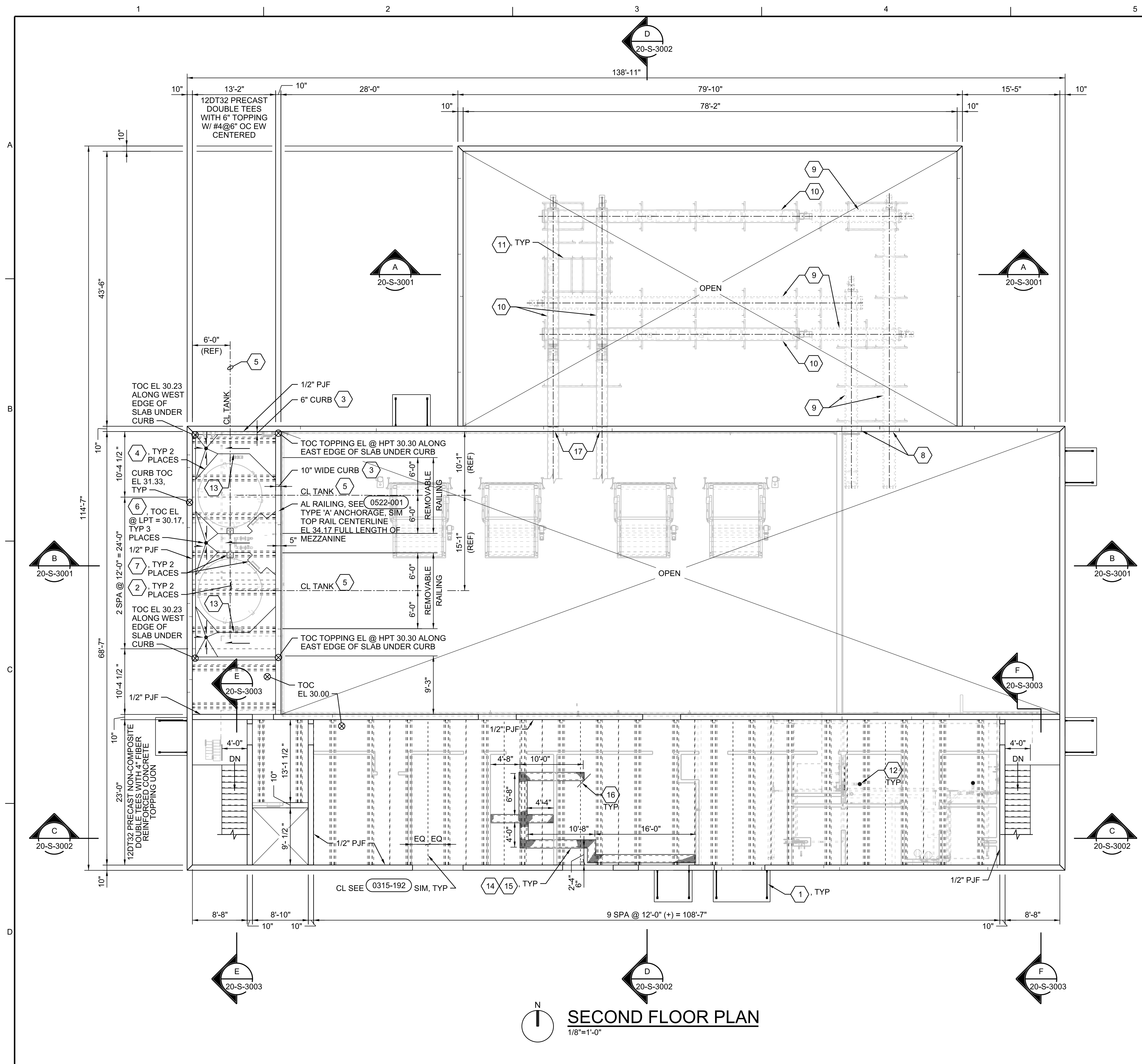
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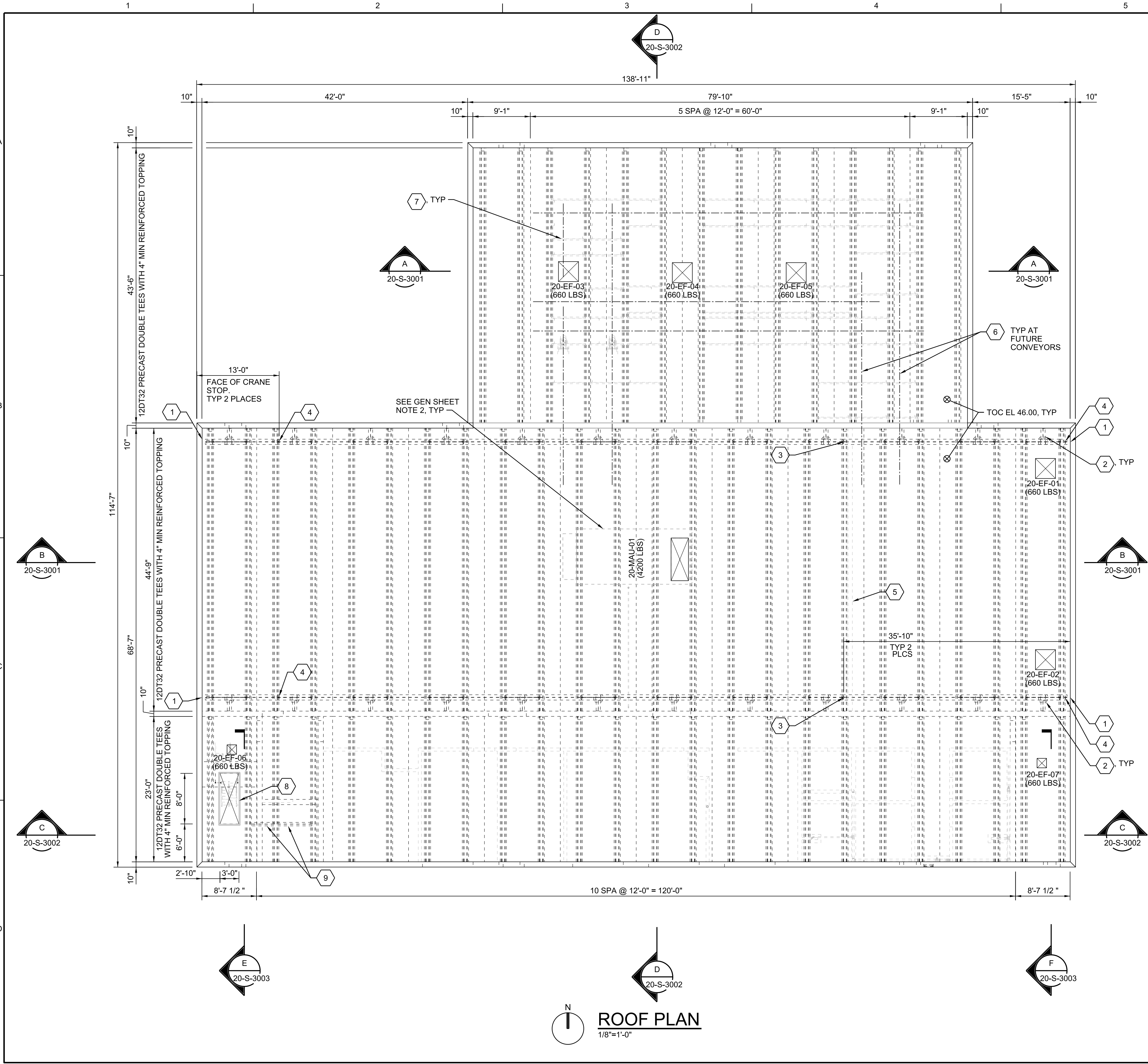
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<div><div><div><div><div><div>1.</div><div>CANOPY SEE DETAIL 0559-053. PRECAST MFR TO PROVIDE PROVISION FOR CANOPY SUPPORTS IN PRECAST WALL AS SHOWN IN DETAIL. COORDINATE LOCATION WITH ARCH DWGS.</div></div></div><div><div><div>2.</div><div>LOAD OF TANK PLUS 8" CONC TANK PAD EQUALS 550 PSF.</div></div></div><div><div><div>3.</div><div>UON, 6" WIDE CONC CURB WITH 4" THERMOPLASTIC ELASTOMERIC RUBBER (TPER) WATERSTOP. SEE DET 0330-080. CURB TOC EL SEE PLAN THIS DWG.</div></div></div><div><div><div>4.</div><div>POLYMER STORAGE TANK PAD. SEE DET 0330-056 TYPE "F" SIM AND DET 0330-058 SIM. PAD TOC EL 30.67. EXTEND EAST END OF TANK PAD TO CURB.</div></div></div><div><div><div>5.</div><div>TANK CENTERLINE LOCATION FOR REFERENCE ONLY. SEE PROCESS DWGS TO VERIFY LOCATION PRIOR TO PLACEMENT OF TANK PAD. COORDINATE PAD SIZE WITH APPROVED TANK SUBMITTAL.</div></div></div><div><div><div>6.</div><div>FLOOR DRAIN, SEE 0330-082. SEE PROCESS DWGS FOR DRAIN LOCATION AND COORDINATE FINAL LOCATION WITH DOUBLE TEES.</div></div></div><div><div><div>7.</div><div>BLOCKOUTS IN TANK PAD FOR TANK DRAIN AND LADDER. COORDINATE BLOCKOUT SIZE, QUANTITY, AND LOCATION WITH APPROVED TANK SUBMITTAL. PROVIDE 3" CLEAR BETWEEN LADDER RAILS AND TANK PAD, AND 7" CLEAR BETWEEN CENTERLINE OF LADDER RUNGS AND TANK PAD. SLOPE TOP OF CONCRETE FLOOR IN BLOCKOUT FOR LADDER TO PREVENT ACCUMULATION OF LIQUID IN BLOCKOUT.</div></div></div><div><div><div>8.</div><div>KNOCK-OUT PANEL IN PRECAST WALL BY PRECAST SUPPLIER FOR FUTURE CONVEYOR. COORDINATE OPNG SIZE AND LOCATION WITH ARCH AND PROCESS DWGS AND APPROVED CONVEYOR SUBMITTAL. KNOCK-OUT PANEL TO BE REMOVED DURING CLASS A CONVERSION.</div></div></div><div><div><div>9.</div><div>FUTURE CONVEYORS. PROVIDE PROVISION IN THE STEM OF EACH DOUBLE TEE FOR ATTACHMENT OF FUTURE CONVEYOR SUPPORTS. SEE DWG 20-S-2004 FOR ADDITIONAL INFO.</div></div></div><div><div><div>10.</div><div>CONVEYORS. COORDINATE FINAL LOCATION WITH APPROVED CONVEYOR SUBMITTAL AND PRECAST SUPPLIER. SEE DWG 20-S-2004 FOR ADDITIONAL INFO.</div></div></div><div><div><div>11.</div><div>CONVEYOR SUPPORTS BY CONVEYOR MANUFACTURER PER SPEC 44 46 13.02. COORDINATE SUPPORT ATTACHMENT TO PRECAST WITH PRECAST SUPPLIER PRIOR TO FABRICATION OF PRECAST AND CONVEYOR SUPPORTS.</div></div></div><div><div><div>12.</div><div>FLOOR DRAIN. SEE DET 0330-082.</div></div></div><div><div><div>13.</div><div>EXTEND TANK PAD PAST PUMP IN ACCORDANCE WITH 0330-056, TYPE 'A'.</div></div></div><div><div><div>14.</div><div>12" WIDE TRENCH WITH AL FLAT PLATE TYPE 'A' COVER AND TYPE 'A' LIFTING EYE. TOP OF TRENCH EL = TOP FINISHED FLOOR. TRENCH DEPTH TO MATCH THICKNESS OF TOPPING SLAB. SEE DETAIL 0554-001 FOR COVER INFO. PROVIDE JOINTS IN PLATE AT JOINTS IN TOPPING SLAB AND AT PRECAST DOUBLE TEES JOINTS.</div></div></div><div><div><div>15.</div><div>TRENCH DIMENSIONS FOR REFERENCE ONLY. COORDINATE FINAL LOCATION WITH ELECTRICAL DRAWINGS AND APPROVED EQUIPMENT.</div></div></div><div><div><div>16.</div><div>PROVIDE #4x3'-0" LG RE-ENTRANT CORNER BAR AT ALL RE-ENTRANT CORNERS. LOCATE 2" CLR FROM TOP OF SLAB. BARS SHALL NOT CROSS SLAB JOINTS.</div></div></div><div><div><div>17.</div><div>OPNG IN PRECAST PANEL FOR CONVEYOR. COORDINATE OPNG SIZE AND LOCATION WITH ARCH AND PROCESS DWGS AND APPROVED CONVEYOR SUBMITTAL.</div></div></div></div></div></div>		<div><div><div><div><div><div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div><div>C.C. WILLIAMS WWTP</div><div>DEWATERING FACILITY & OTHER IMPROVEMENTS</div><div>MOBILE AREA WATER & SEWER SYSTEM (MAWSS)</div><div>MOBILE, ALABAMA</div></div></div><div><div><div><div>Jacobs</div><div>STRUCTURAL</div><div>DEWATERING AND CONTROL BUILDING SECOND FLOOR PLAN</div></div></div></div></div></div></div>									
<div>1/8"=1'-0"</div>											
<div>VERIFY SCALE</div>											
<div>BAR IS ONE INCH ON ORIGINAL DRAWING.</div>										<div>01"1"</div>	
<div>DATE</div>					<div>MAY 2021</div>						
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GENERAL SHEET NOTES

- FOR ADDITIONAL INFORMATION SEE DWG 20-S-2001.
- PRECAST ROOF MEMBER DESIGN LOADS:
A. DEAD LOADS = SELF WEIGHT OF MEMBERS AND TOPPING +10PSF
B. COLLATERAL DEAD LOAD = 15 PSF NOT INCLUDING CONCENTRATED LOADS GIVEN ELSEWHERE FOR CRANE, CONVEYORS, AND ROOF TOP EQPT
C. LIVE LOAD = SEE 01-G-0006
D. CRANE LOAD = 10-TON CRANE. SEE PLAN AND KEYNOTES 1 AND 2
E. WIND LOADS = SEE 01-G-0006
F. SEISMIC LOADS = SEE 01-G-0006
G. ROOF TOP EQUIPMENT LOADS, SEE ROOF PLAN. CONTRACTOR SHALL COORDINATE LOADS AND OPENING SIZES WITH APPROVED EQUIPMENT SUBMITTALS, AND INCLUDE LOADING IN PRECAST DESIGN. SEE ARCHITECTURAL AND MECHANICAL FOR CURB AND FLASHING INFO.
H. APPLY ROOFTOP EQUIPMENT WIND LOADS TO ROOFTOP EQUIPMENT FOR PRECAST ROOF MEMBER DESIGN. SEE 01-G-0006 FOR ADDITIONAL INFORMATION.
I. RAIN LOADS = IN ACCORDANCE W/ ASCE 7-16
- LOADS SHOWN ARE SERVICE LEVEL UON.
- DOUBLE TEE WIDTHS AND DEPTHS ARE SCHEMATIC. PRECAST MANUFACTURER'S ENGINEER SHALL SIZE DOUBLE TEE MEMBERS TO MEET THE STRENGTH AND DEFLECTION REQUIREMENTS. MAINTAIN THE CLEAR HEIGHT RESULTING FROM THE 32" DEEP DOUBLE TEE MEMBERS.
- CHORDS AND CHORD CONNECTIONS PER PRECAST MANUFACTURER'S ENGINEER. PROVIDE CONNECTIONS FOR PRECAST ELEMENTS FOR GRAVITY LOADS, IN-PLANE LOADS, AND OUT-OF-PLANE LOADS IN ACCORDANCE WITH PRECAST ENGINEERS' DESIGN AND DETAILS, INCLUDING CHORDS, DRAG STRUTS, COLLECTOR ELEMENTS, AS WELL AS CONNECTIONS THERE FOR DIAPHRAGMS AND SHEARWALLS.
- SEE OTHER DISCIPLINES FOR PENETRATIONS IN PRECAST WALL NOT SHOWN.

SHEET KEYNOTES

- CRANE RUNWAY GIRDER BRACE. SEE DET 1/ 20-S-5002. ATTACHED TO PRECAST WALL. PRECAST MFR SHALL INCLUDE LOADING LISTED IN DETAIL IN PRECAST DESIGN. LIMIT DOUBLE TEE DEFLECTION TO L/ 1000 FOR CRANE LOAD IN COMBINATION W/ OTHER GRAVITY LOADS (I.E., DEAD, COLLATERAL DEAD, LIVE, ROOF, RAIN, ETC).
- W14x82 CRANE RUNWAY GIRDER AND SUPPORTING SUSPENSION SYSTEM SUPPORTED BY PRECAST DOUBLE TEES. SEE DET 2/ 20-S-5002 FOR SUSPENSION DET. PRECAST MFR SHALL INCLUDE LOADING LISTED IN DET IN PRECAST DESIGN. SEE CRANE SPEC 41 22 13.13 FOR END OF RUNWAY GIRDER CLEARANCE FROM PRECAST WALL.
- PROVIDE TEMPORARY CRANE STOPS THIS LOCATION AND CRANE STOPS AT EACH END OF RUNWAY GIRDERS PER DET 0512-101. FACE OF TEMPORARY STOP TO BE 6" FROM WEST FACE OF TEMPORARY STUD WALL SHOWN BY KEYNOTE 5. COORDINATE FINAL STOP LOCATION WITH ARCH DWGS TO PROVIDE 6" CLR BETWEEN BRIDGE CRANE AND WEST FACE OF WALL. TEMPORARY STOPS TO BE RELOCATED TO EAST END OF RUNWAY GIRDER DURING CLASS A CONVERSION.
- PROVIDE CRANE STOPS PER DET 0512-101.
- TEMPORARY METAL STUD WALL. SEE ARCH DWGS FOR LOCATION.
- FUTURE CONVEYORS. SUPPORT LOCATIONS SHOWN FOR REFERENCE ONLY. ACTUAL SUPPORT LOCATIONS TO BE DETERMINED BASED ON ACTUAL FUTURE CONVEYOR LOCATION. PROVIDE PROVISIONS IN THE STEM OF EACH DOUBLE TEE FOR ATTACHMENT OF FUTURE CONVEYOR SUPPORTS SIMILAR TO SUPPORT CONNECTIONS USED FOR NEW CONVEYORS. ASSUME 8'-0" MAX SUPPORT SPACING AND 4'-0" MAX SPACING FROM DOUBLE TEE ENDS FOR FUTURE SUPPORT.
- DESIGN DOUBLE TEE STEMS FOR MIN SERVICE LEVEL CONVEYOR VERTICAL SUPPORT END REACTION = 6.0 KIPS (12 KIPS TOTAL VERTICAL REACTION FOR DOUBLE TEE STEMS W/ SUPPORT CONNECTIONS EACH SIDE) UNLESS GREATER LOAD REQUIRED PER CONVEYOR MFR. REACTION SHALL BE COMBINED WITH ALL OTHER VERTICAL AND HORIZONTAL LOADS SHOWN ON THE DWGS AND IN THE SPECIFICATIONS. SEE DWG 20-S-2003 FOR ADDITIONAL INFO.
- CONVEYOR SUPPORTS BY CONVEYOR MFR PER SPEC 44 46 13.02. COORDINATE SUPPORT ATTACHMENT TO PRECAST WITH PRECAST SUPPLIER PRIOR TO FABRICATION OF PRECAST AND CONVEYOR SUPPORTS.
- DESIGN DOUBLE TEE STEMS FOR MIN SERVICE LEVEL CONVEYOR VERTICAL SUPPORTED END REACTION = 6.0 KIPS (12 KIPS TOTAL VERTICAL REACTION FOR DOUBLE TEE STEMS W/ SUPPORT CONNECTIONS EACH SIDE). REACTION SHALL BE COMBINED W/ ALL OTHER VERTICAL AND HORIZONTAL LOADS SHOWN ON THE DWGS AND IN THE SPECIFICATIONS. SEE DWG 20-S-2003 FOR ADDITIONAL INFO.
- ROOF ACCESS HATCH OPENING. SEE ARCH DWG FOR HATCH INFO. COORDINATE HATCH WEIGHT AND OPENING SIZE W/ APPROVED HATCH SUBMITTAL.
- W8x28 ELEVATOR SAFETY BEAM W/ FRAMED BEAM CONNECTION EA END CONNECTED TO DOUBLE TEE STEMS. BEAM END CONNECTIONS DESIGNED FOR 7.5 KIPS (SERVICE LEVEL) VERTICAL LOAD. COORDINATE BEAM DESIGN AND LOCATION W/ PRECAST SUPPLIER AND APPROVED ELEVATOR SUBMITTAL.

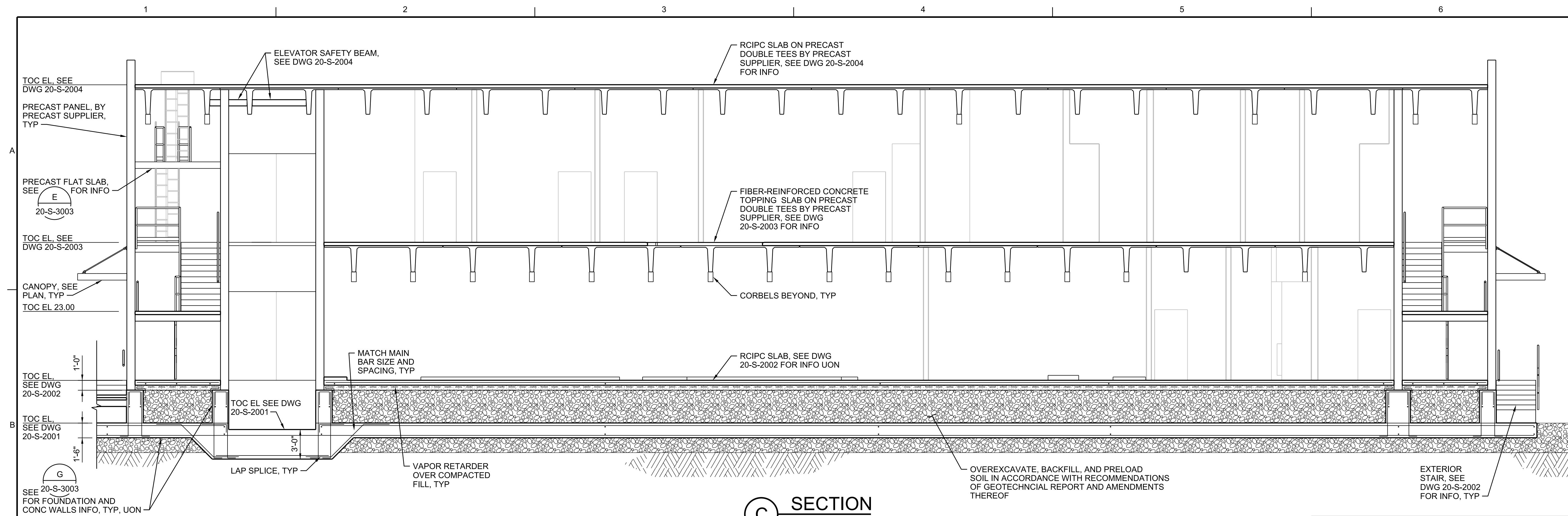
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BAR IS ONE INCH ON ORIGINAL DRAWING.																							
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PROJ										D3226100													
DWG										20-S-2004													
SHEET										082 of 270													
										DSGN		NO.		DATE		DR		P KARABAN		R FORREST		M CHRZANOWSKI	

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CONFIRMED DOCUMENTS

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<div><div>Jacobs</div><div>STRUCTURAL DEWATERING AND CONTROL BUILDING SECTION</div></div>	<div>C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA</div>	<div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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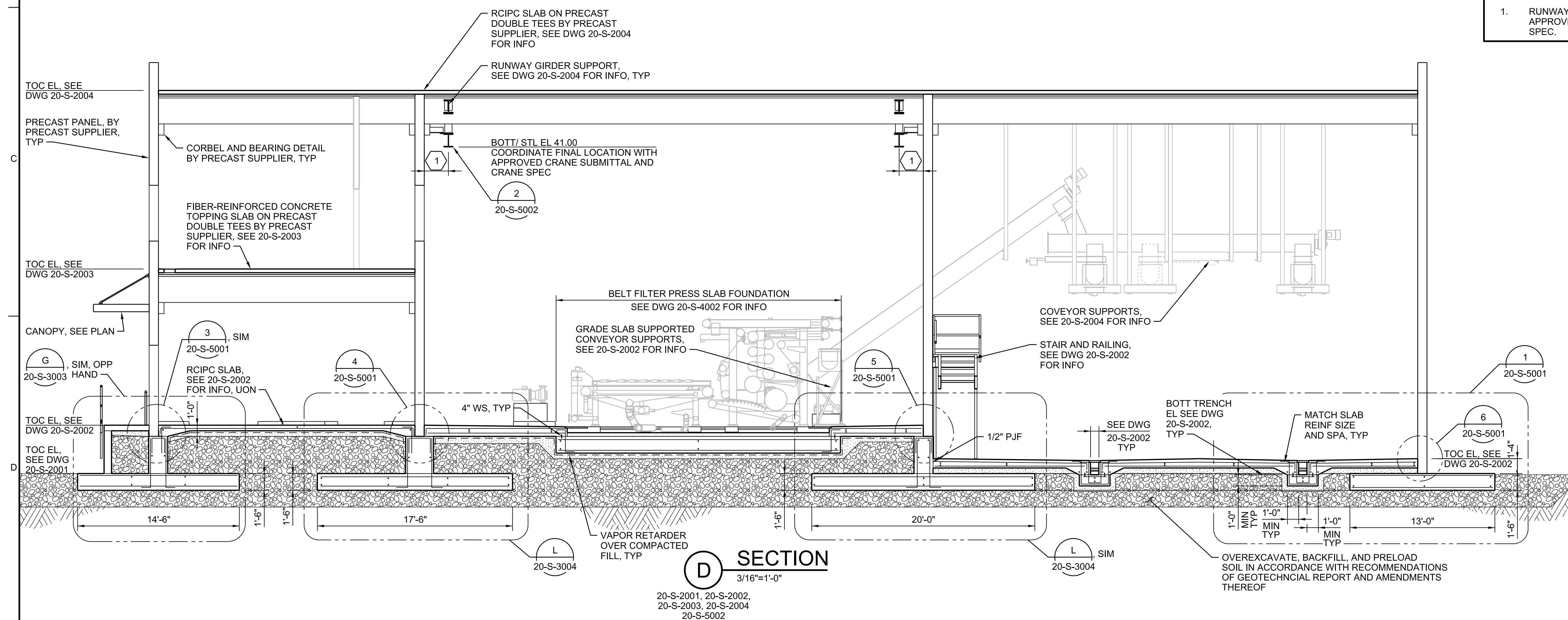


SECTION
3/16"=1'-0"

20-S-2001, 20-S-2002,
20-S-2003, 20-S-2004

 SHEET KEYNOTES

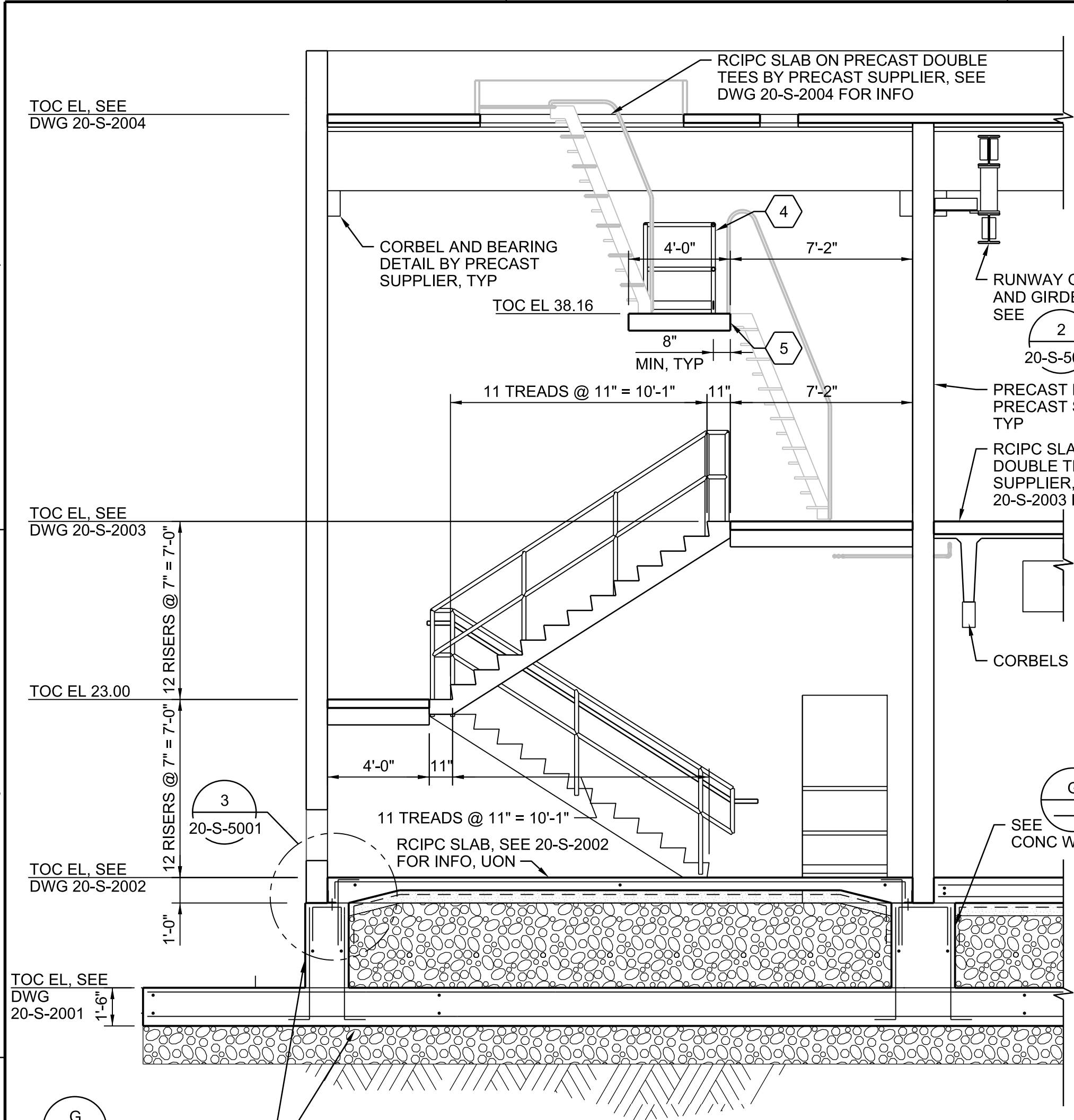
1. RUNWAY GIRDER CENTERLINE, COORDINATE WITH APPROVED PRECAST SUBMITTALS AND CRANE SPEC.



SECTION

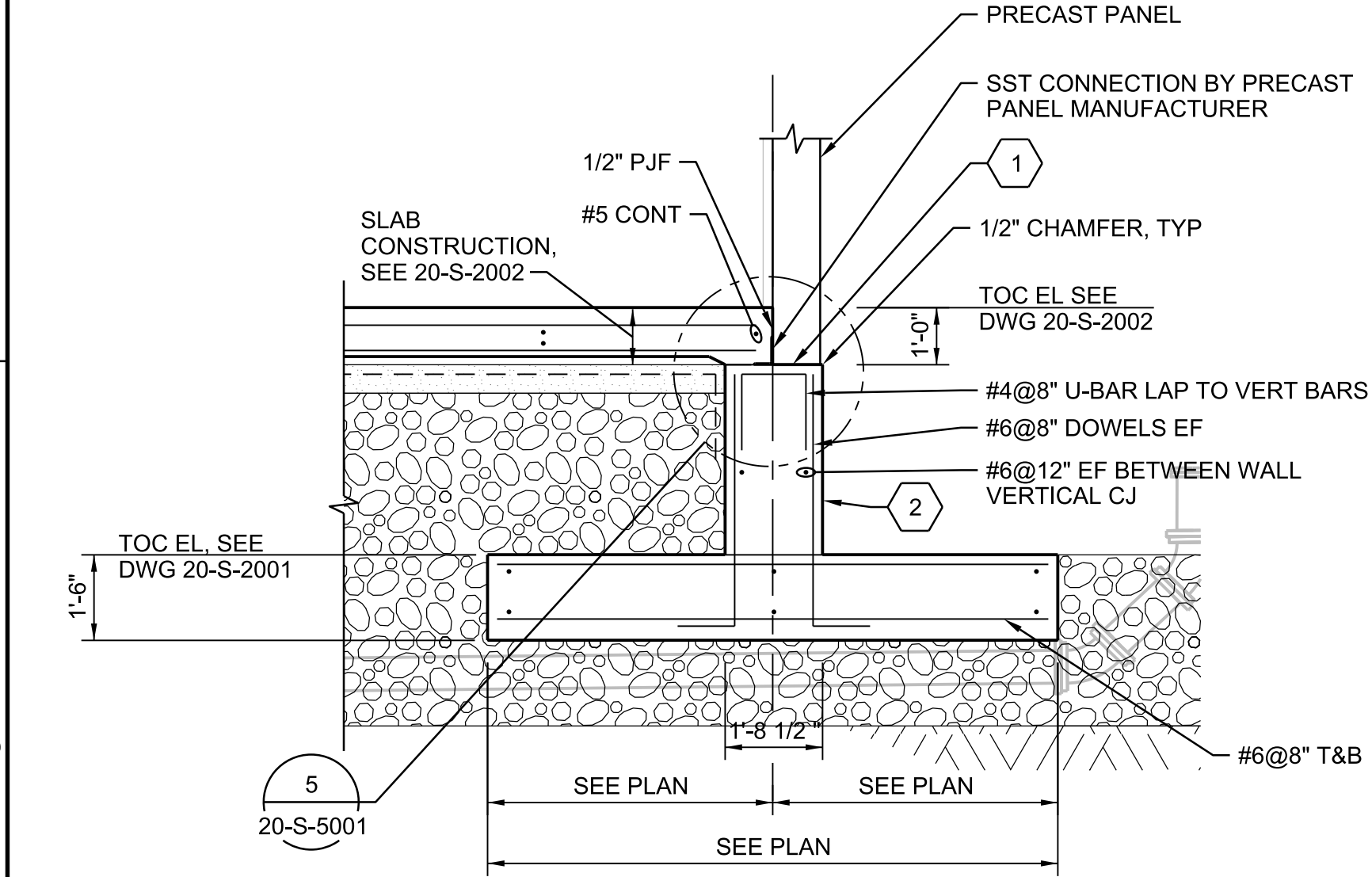
20-S-2001, 20-S-2002,
20-S-2003, 20-S-2004
20-S-5002

[illegible]



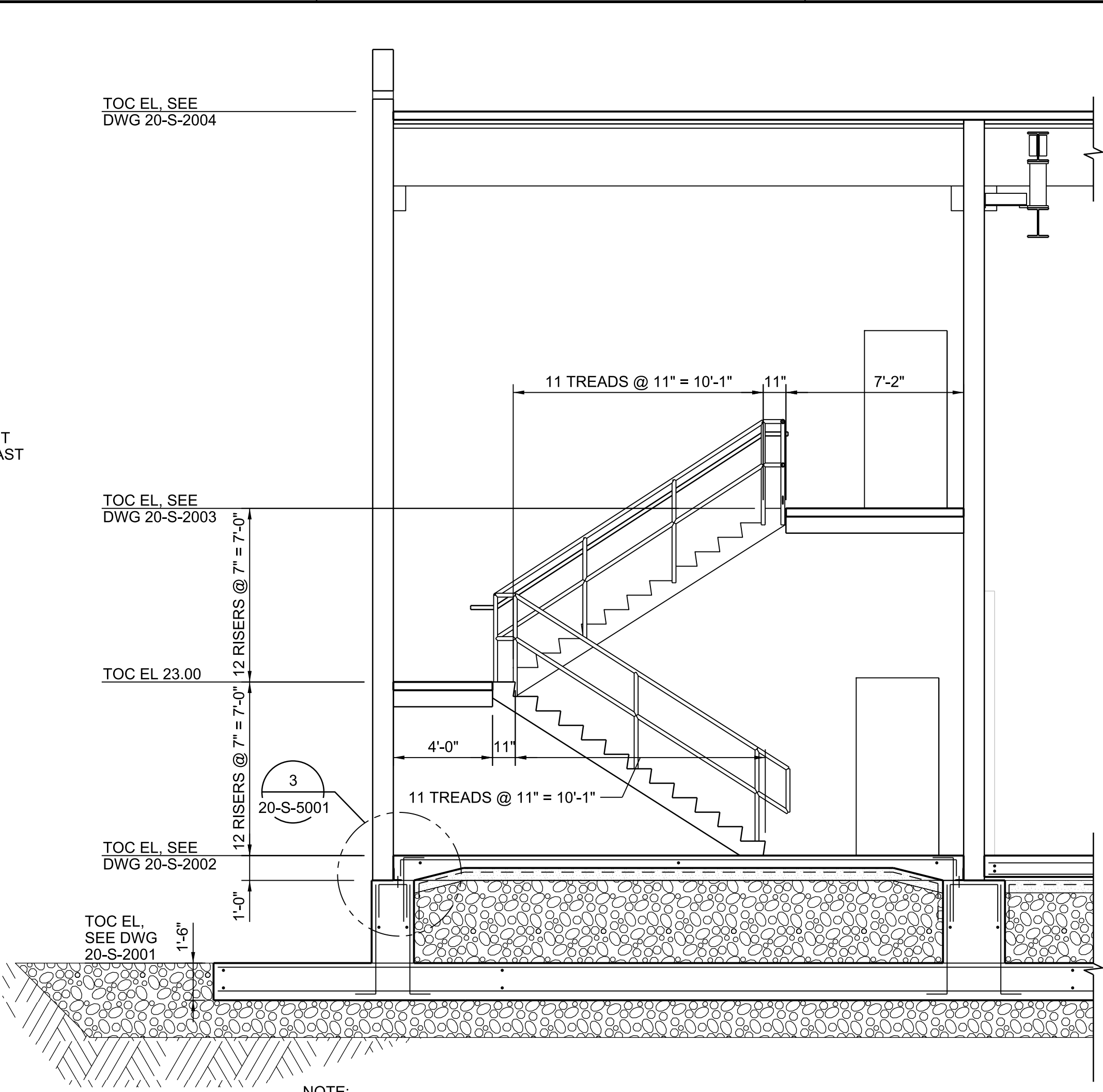
E SECTION
1/4"=1'-0"

20-S-2001, 20-S-2002,
20-S-2003, 20-S-2004
20-S-3002



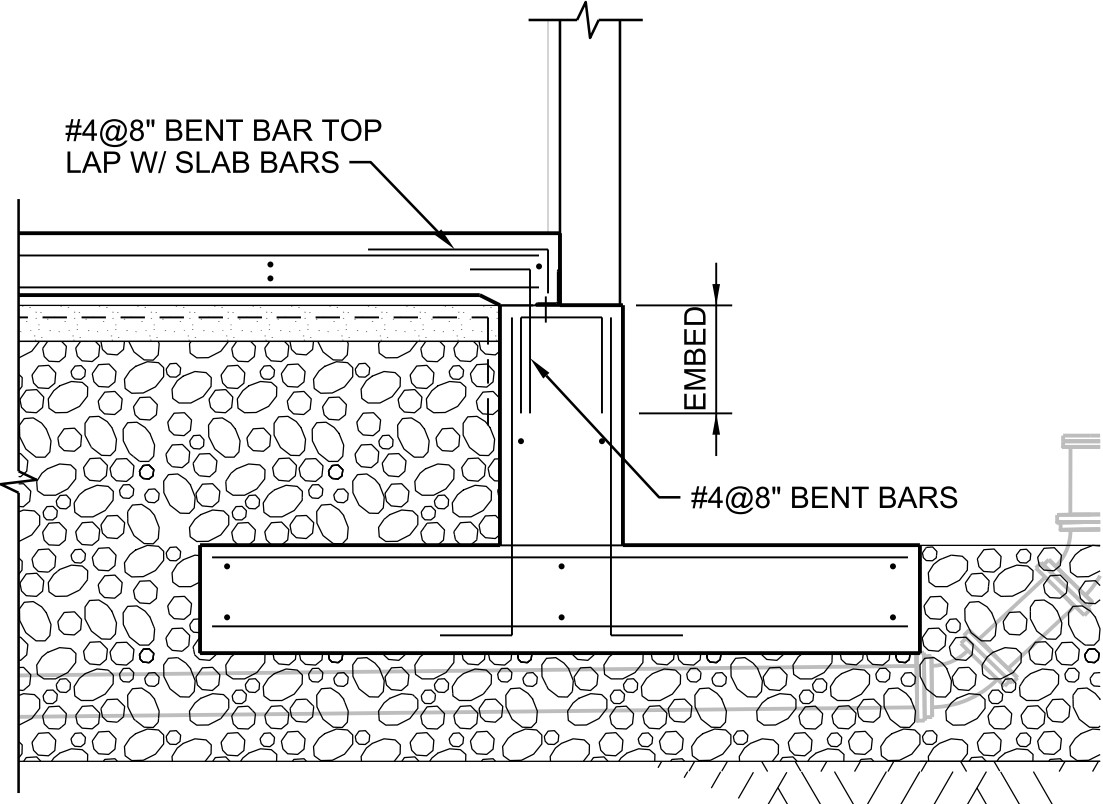
G SECTION
3/8"=1'-0"

20-S-2001, 20-S-2002,
20-S-3001, 20-S-3002
20-S-3003, 20-S-3004
20-S-4002



F SECTION
1/4"=1'-0"

20-S-2001, 20-S-2002,
20-S-2003, 20-S-2004

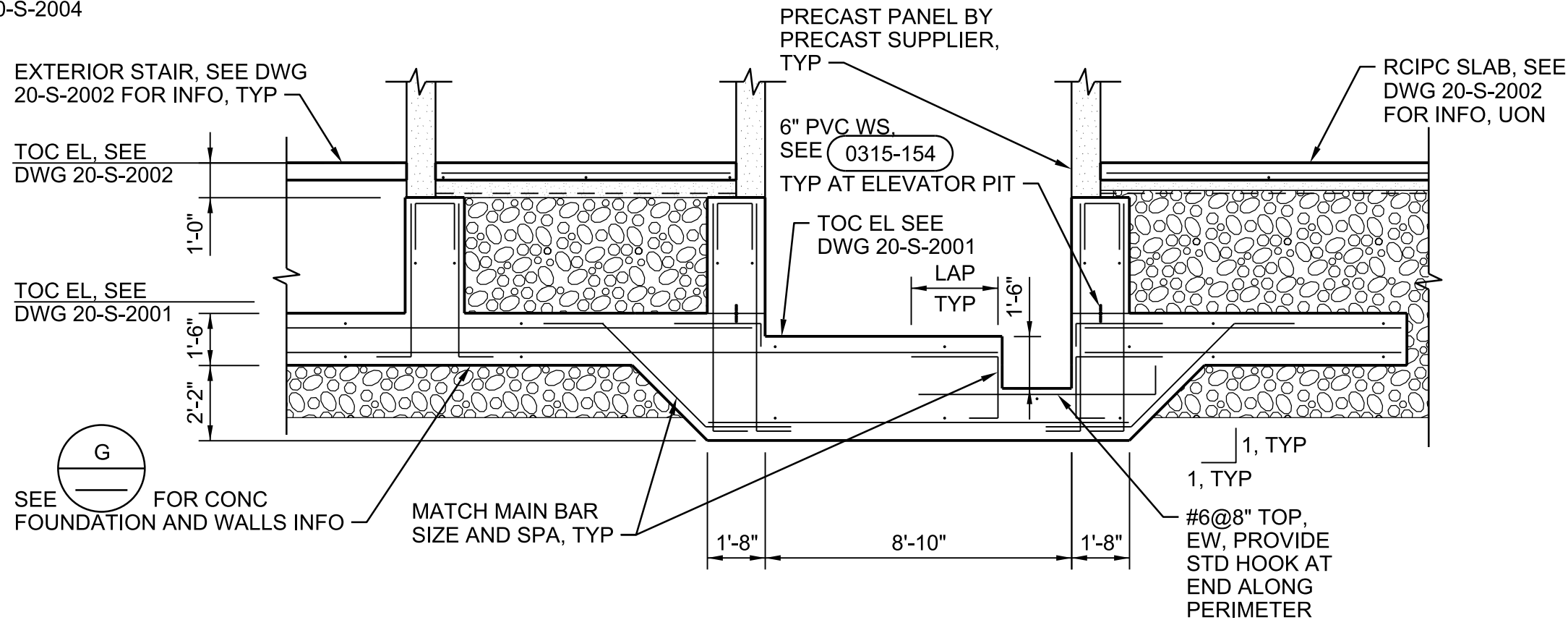


G1 SECTION
3/8"=1'-0"

20-S-2001, 20-S-2002,
20-S-3001, 20-S-5001

SHEET KEYNOTES

1. PRECAST PANEL CONNECTIONS ASSUMED TO TRANSFER GRAVITY, IN-PLANE SHEAR, AND OUT-OF-PLANE LOADS FROM PRECAST PANELS TO FOUNDATION. SEE KEYNOTE 3.
2. PROVIDE VERTICAL CONTROL JOINTS IN RCIPC WALL, SEE 0315-201.
3. CONNECTIONS DESIGNED AND DETAILED BY PRECAST MANUFACTURER'S ENGINEER, AND PROVIDED BY PRECAST MANUFACTURER.
4. AL 2-RAIL GUARDRAIL SEE DETAIL 522-001. PROVIDE ANCHORAGE SIMILAR TO TYPE 'A' WITH 1/2" DIAMETER A36 THREADED ROD THRU-BOLTS ON 4" SPACING. INSTEAD OF CONC ANCHORS ON 3-1/2" SPACING. PROVIDE 1/4"x3x0'-3" PLATE WASHER AND DOUBLE NUT BOLTS AT BOTTOM OF SLAB, TYP.
5. 6" PRECAST SOLID FLAT SLAB LANDING BY PRECAST SUPPLIER FOR ALTERNATING TREAD LADDER TO ROOF. LANDING DESIGN LIVE LOAD = 100 PSF. COORDINATE LADDER ATTACHMENT AND LOADS WITH APPROVED LADDER SUBMITTAL. PROVIDE 5/8" DIAMETER SLEEVES IN SLAB FOR GUARDRAIL ANCHORAGE.



H SECTION
1/4"=1'-0"

20-S-2001, 20-S-2002,

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

STRUCTURAL

DEWATERING AND
CONTROL BUILDING
SECTIONS

3/16"=1'-0"

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

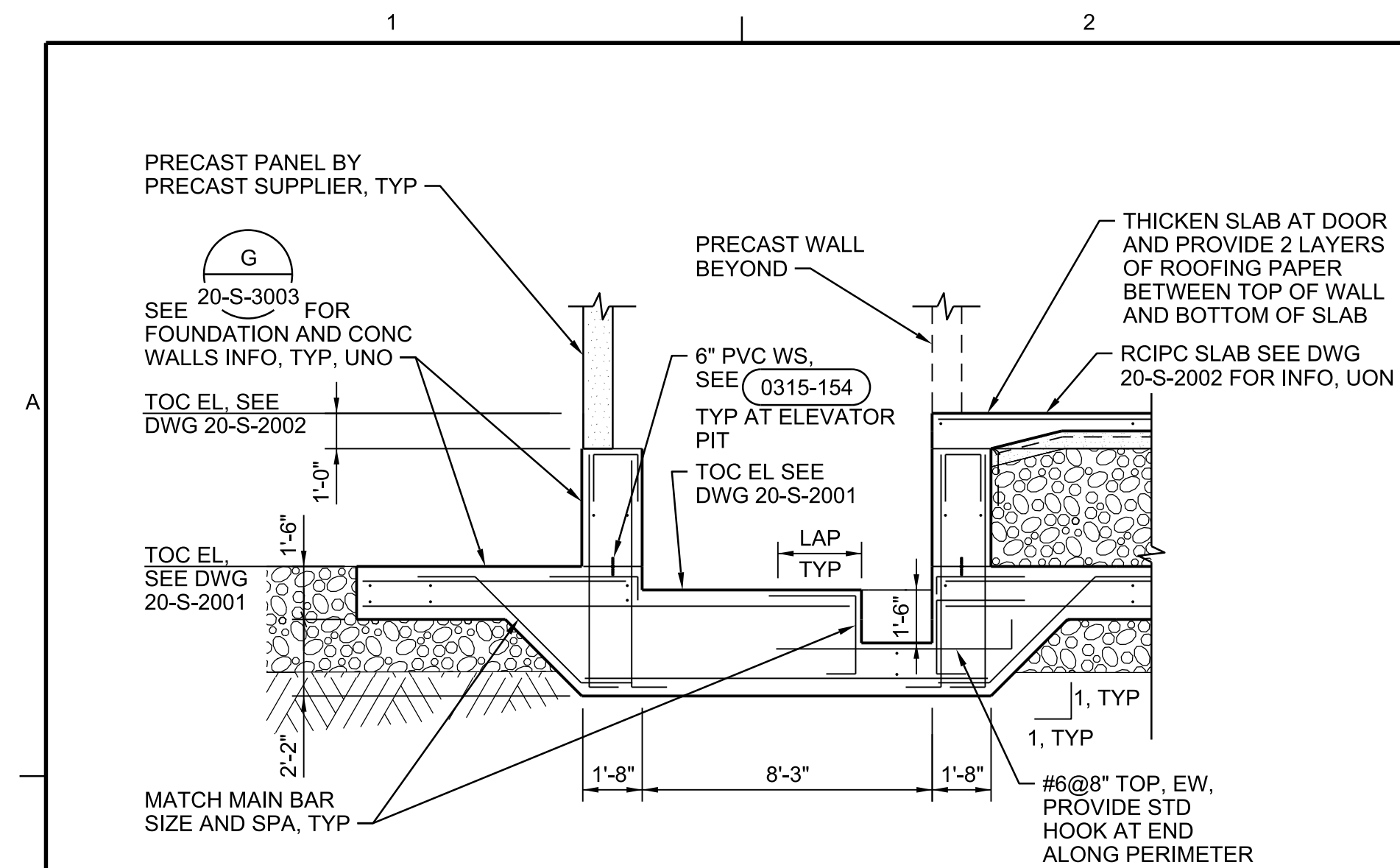
DATE MAY 2021

PROJ D3226100

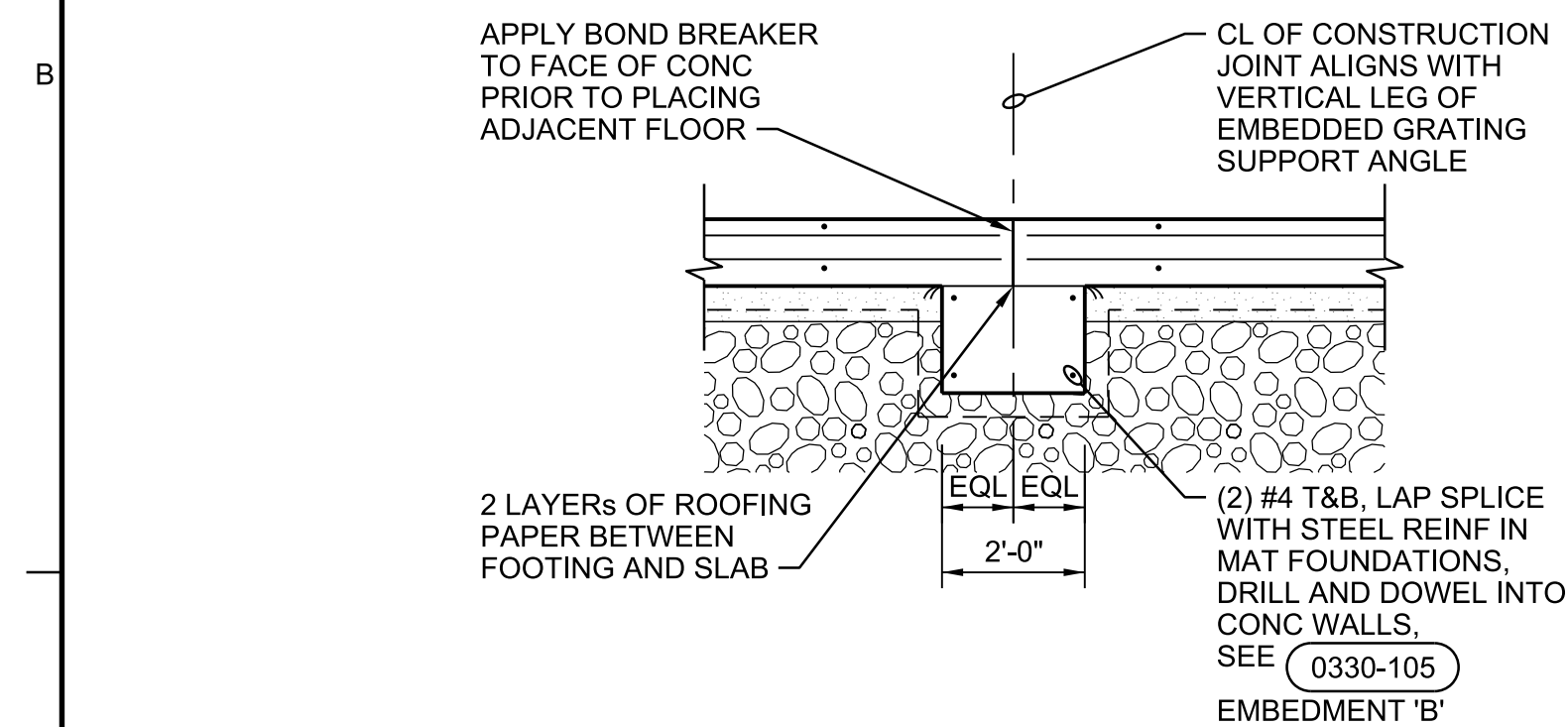
DWG 20-S-3003

SHEET 085 of 270

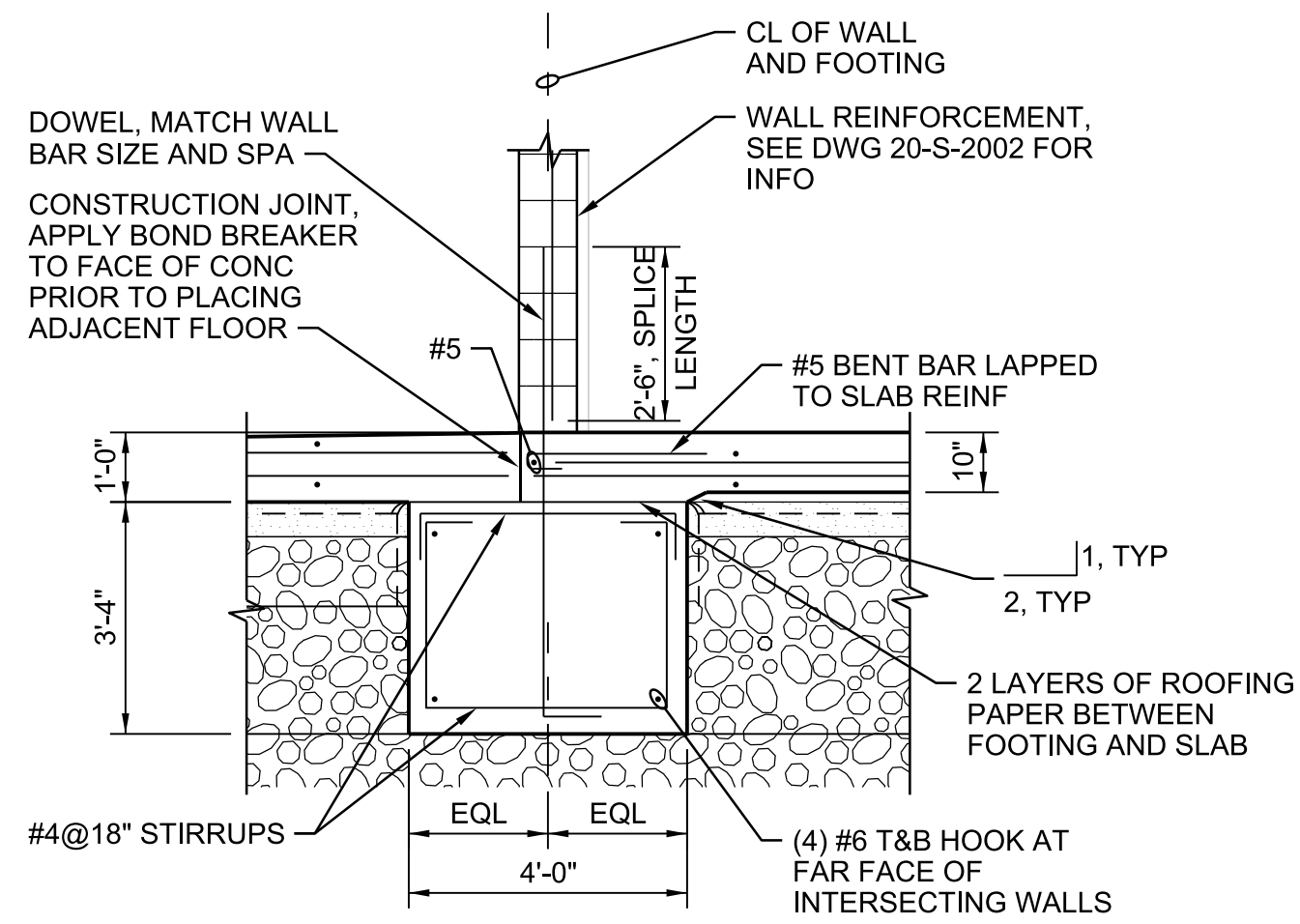
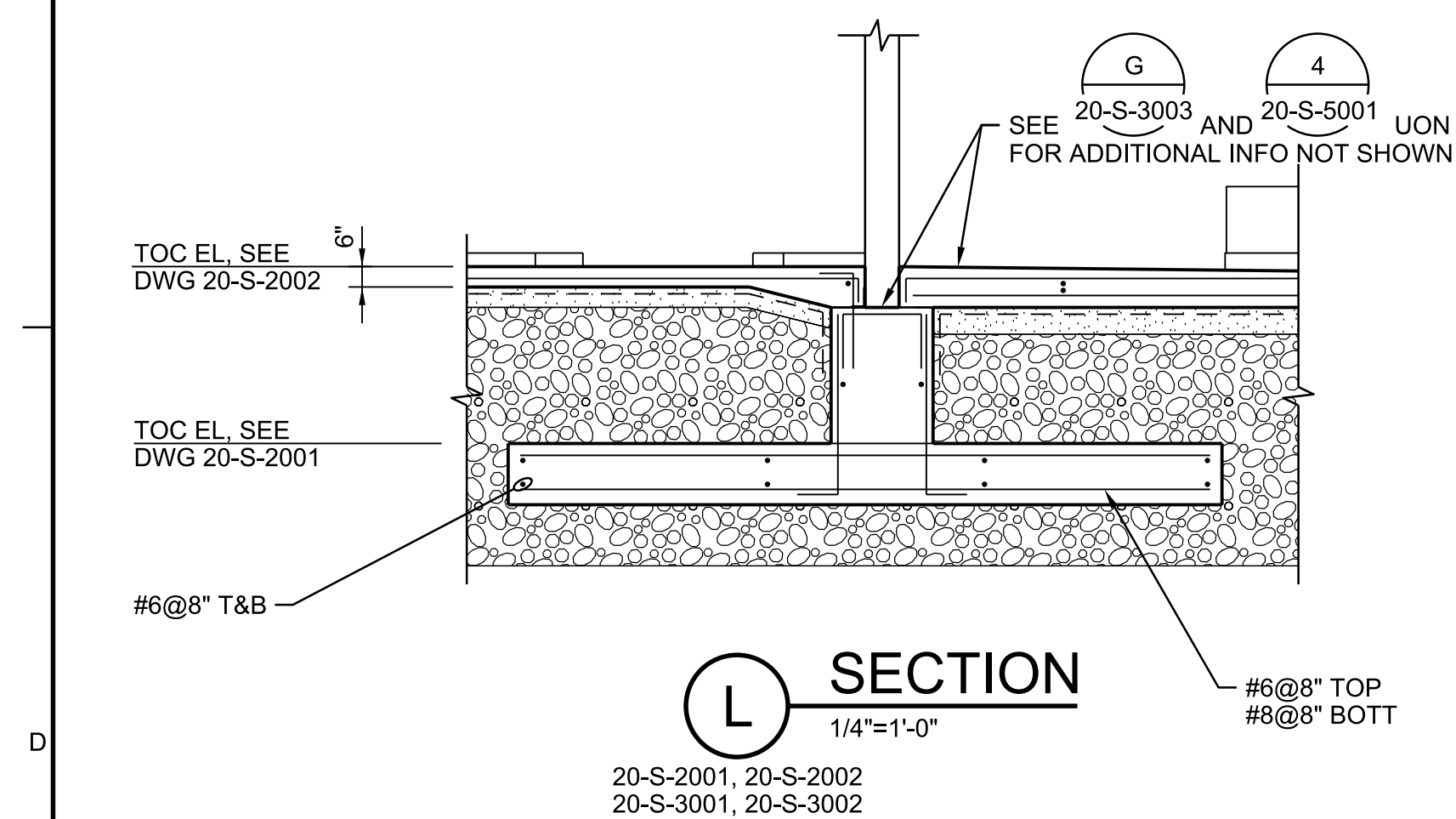
CONFORMED DOCUMENTS



J SECTION
1/4"=1'-0"
20-S-2001, 20-S-2002



K SECTION
3/8"=1'-0"
20-S-2002



M **SECTION**
3/8"=1'-0"
20-S-2001, 20-S-2002
20-S-3001

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA
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Jacobs

STRUCTURAL
DEWATERING AND
CONTROL BUILDING
SECTION

$$1/4'' = 1' - 0$$

VERIFY SCALE

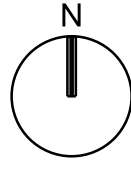
BAR IS ONE INCH ON
ORIGINAL DRAWING.


DATE	MAY 2021
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DATE	MM/DD/YYYY
PROJ	D3226100

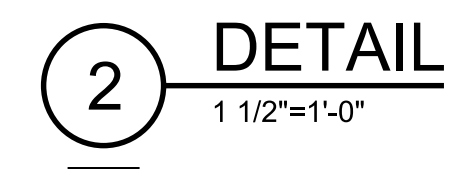
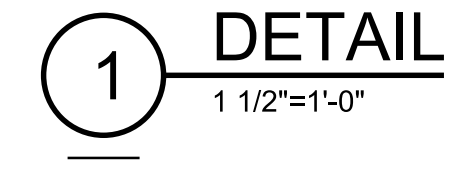
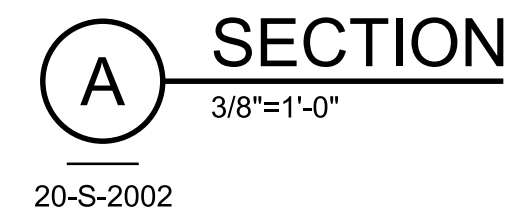
DWG	20-S-3004
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SHEET 086 of 270



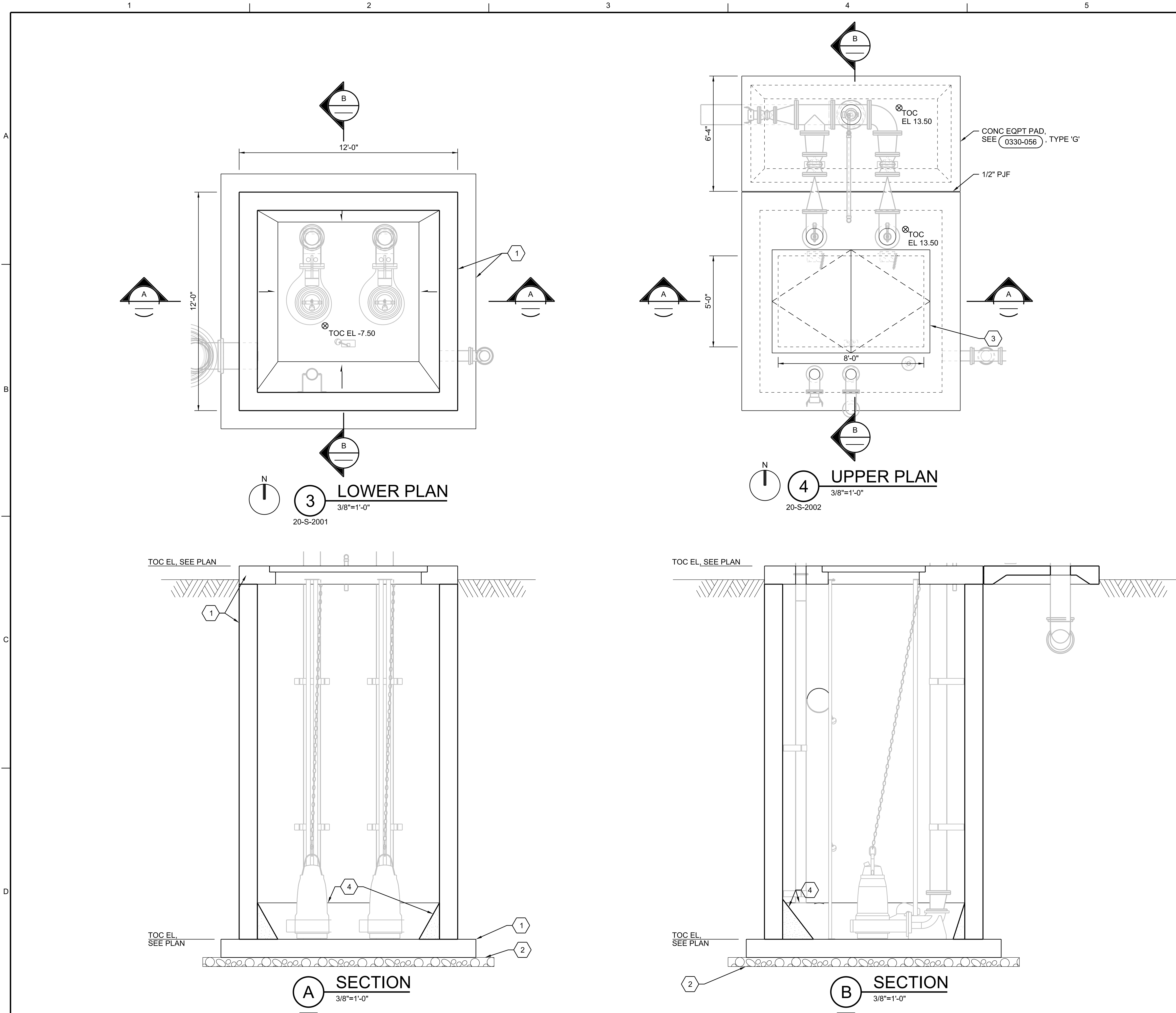
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BIOSOLIDS HOLDING AND RECEIVING TANK PAD



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CONFORMED DOCUMENTS



1.

FOR ADDITIONAL INFORMATION SEE DESIGN CRITERIA IN STRUCTURAL GENERAL NOTES IN THE 01-G-SERIES DRAWINGS.
2.

HATCHES SHALL HAVE HS-20 RATING.
3.

DESIGN PUMP STATION VAULTS TO RESIST HYDROSTATIC UPLIFT AT GROUNDWATER EL 13.50 WITH SF = 1.10.
4.

DESIGN VAULT TOP SLAB FOR VEHICULAR TRAFFIC AND TO RESIST 158 PSF (ULTIMATE) WIND UPLIFT.

SHEET KEYNOTES


1.

NEW PRECAST CONCRETE PUMP STATION. DESIGNED AND DETAILED BY PRECAST MANUFACTURER'S ENGINEER. CONTRACTOR MAY USE CAISSON CONSTRUCTION METHOD PROVIDED PRECAST MANUFACTURER'S ENGINEER DESIGNS IT ACCORDINGLY.
2.

6" MINIMUM LAYER OF COMPACTED GRANULAR FILL.
3.

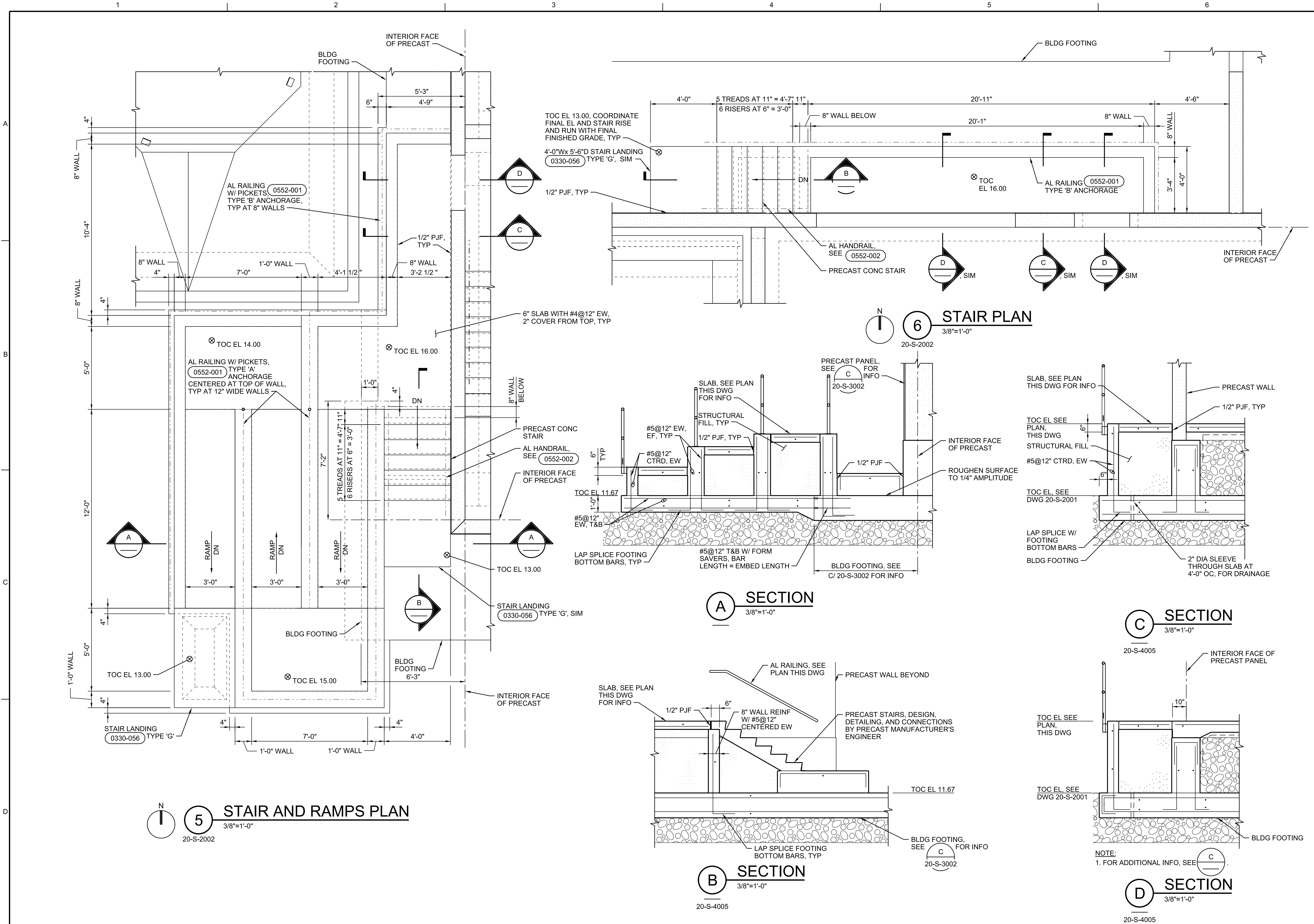
ACCESS HATCH DIMENSIONS REFER TO CLEAR OPENING. VERIFY SIZE AND LOCATION WITH PUMP SUPPLIER PRIOR TO FABRICATION.
4.

COORDINATE FRCF DIMENSIONS, SHAPE, AND LOCATION WITH PUMP MANUFACTURER. SEE 0330-078 SIM (3" MIN THICKNESS).

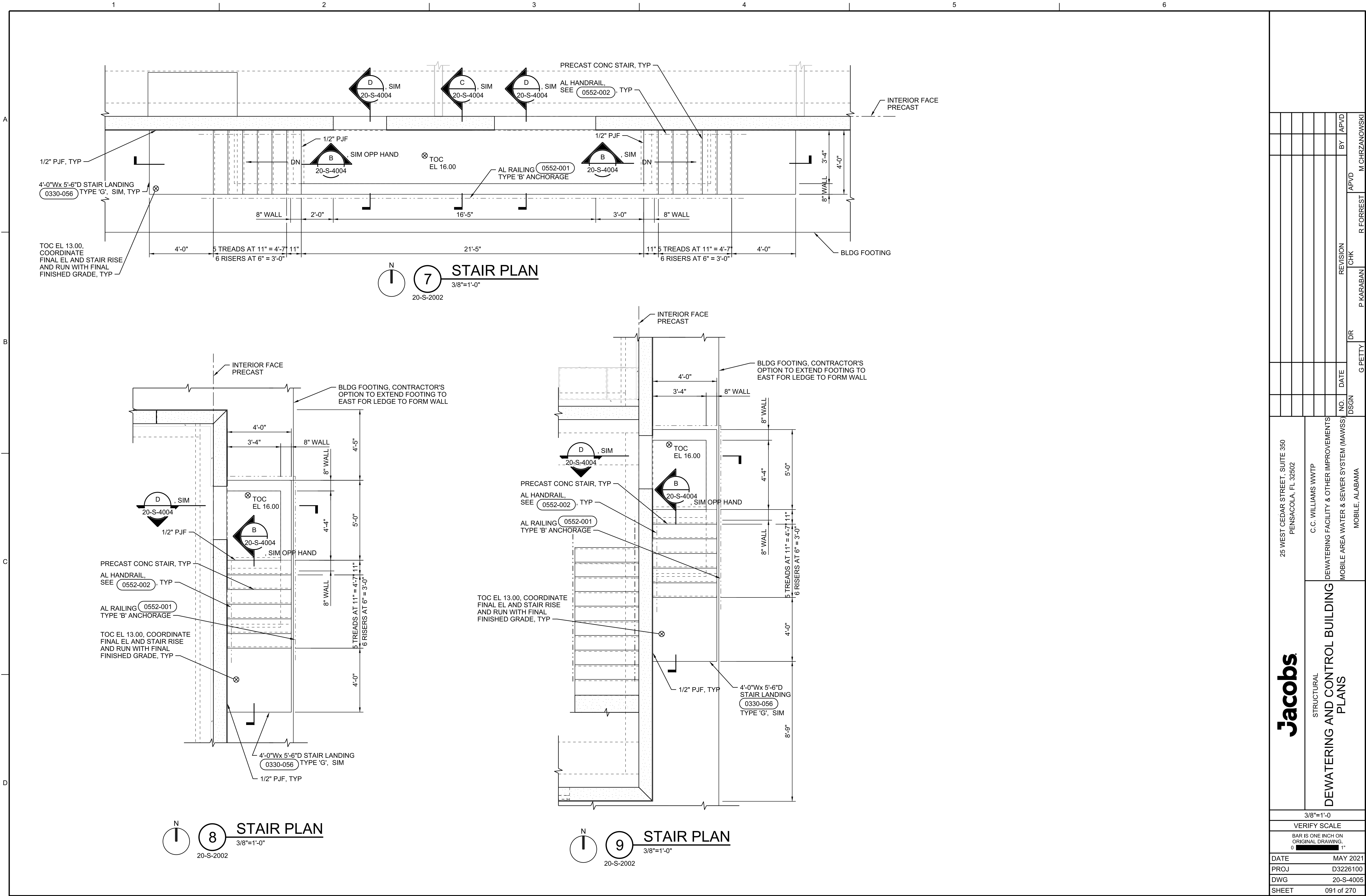
<div></div> <div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div>		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)		MOBILE, ALABAMA																			
<div>STRUCTURAL</div> <div>DEWATERING AND CONTROL BUILDING PLANT DRAIN PUMP STATION PLANS AND SECTIONS</div>		NO.		DATE		REVISION		BY		AP/D															
3/8"=1'-0"		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.		0		1"																	
DATE		MAY 2021		PROJ		D3226100		DWG		20-S-4003															
SHEET		089 of 270																							
												DR		G PETTY		P KARABAN		R FORREST		M CHRZANOWSKI					

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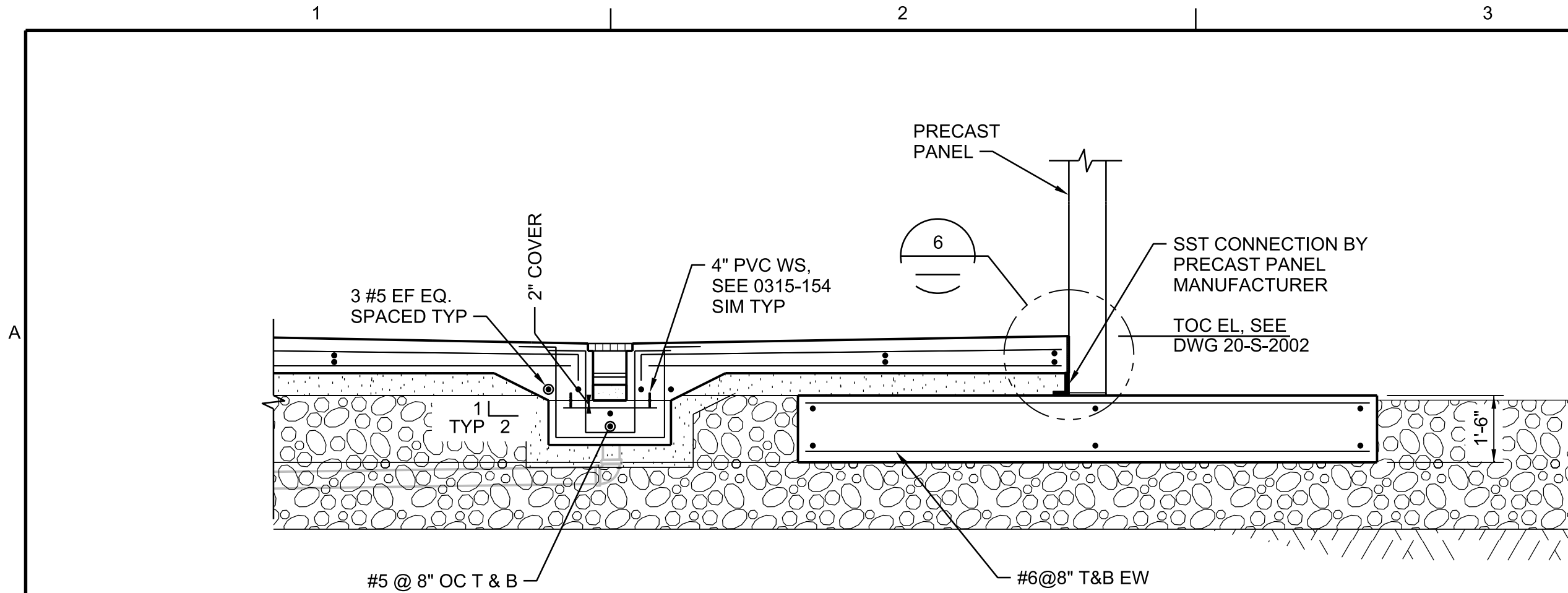
CONFORMED DOCUMENTS



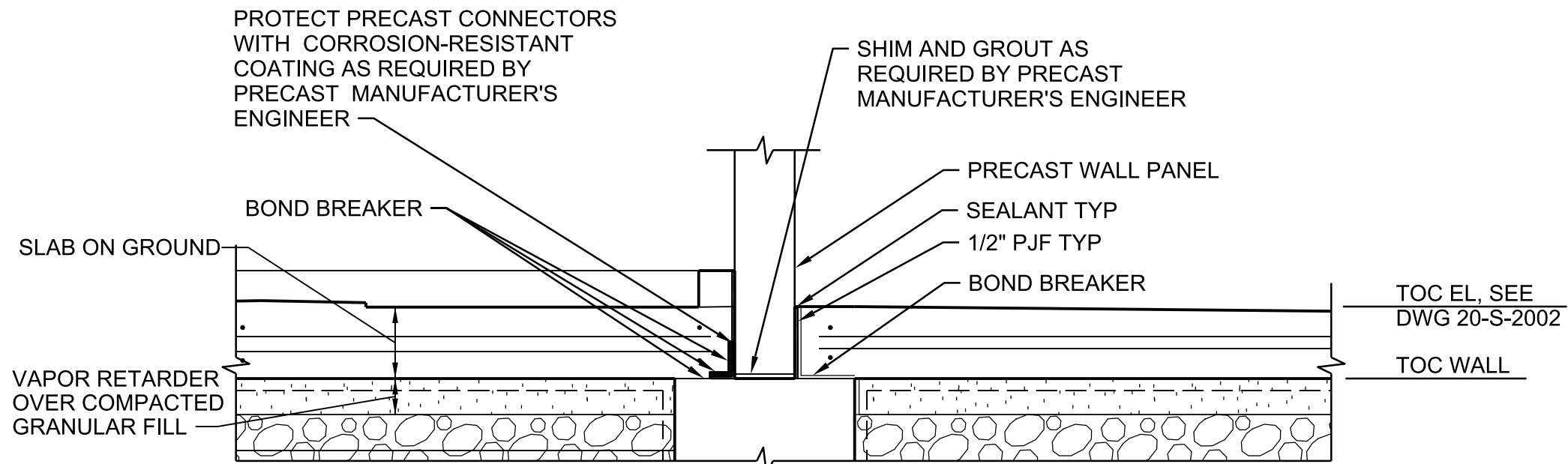
<div><div>Jacobs</div><div>STRUCTURAL</div><div>DEWATERING AND CONTROL BUILDING PLANS AND SECTIONS</div></div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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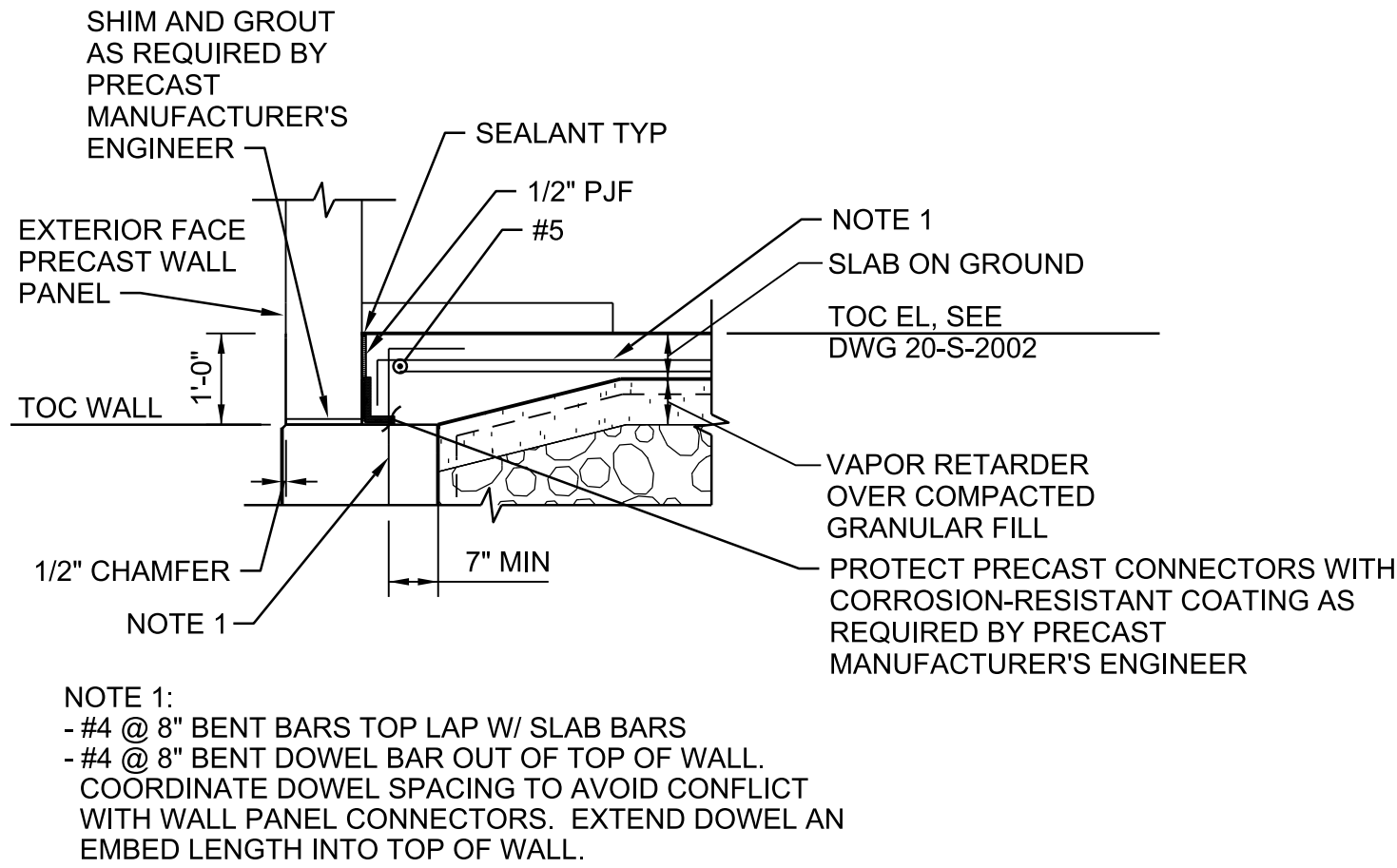
<div>Jacobs</div> <div>STRUCTURAL</div> <div>DEWATERING AND CONTROL BUILDING PLANS</div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA		REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGN INCORPORATED THEREIN ARE THE PROPERTY OF JACOBS AND NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.				M CHRZANOWSKI	
								G. PETTY		R. FORREST			
								P. KARABAN		CHK		APVD	
								NO.		DATE		BY	
3/8"=1'-0"		VERIFY SCALE											
BAR IS ONE INCH ON ORIGINAL DRAWING.		0 1"											
DATE		MAY 2021											
PROJ		D3226100											
DWG		20-S-4005											
SHEET		091 of 270											



1 DETAIL
3/8"=1'-0"
20-S-3001, 20-S-3002

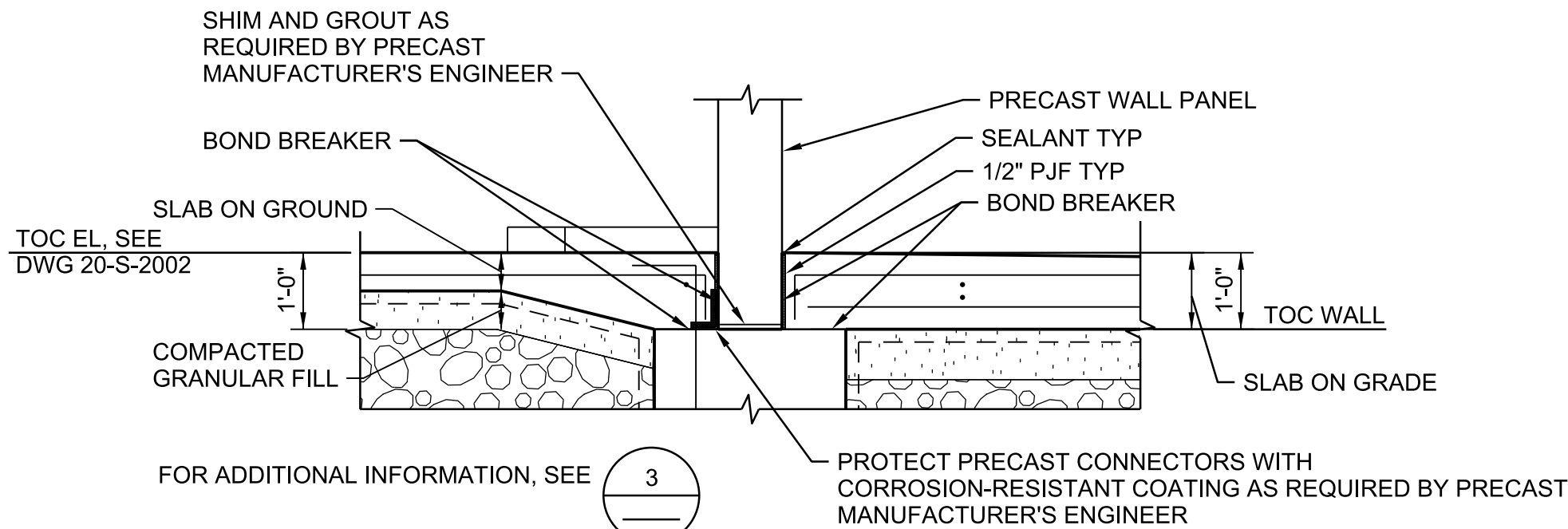


2 DETAIL
1/2"=1'-0"
20-S-3001

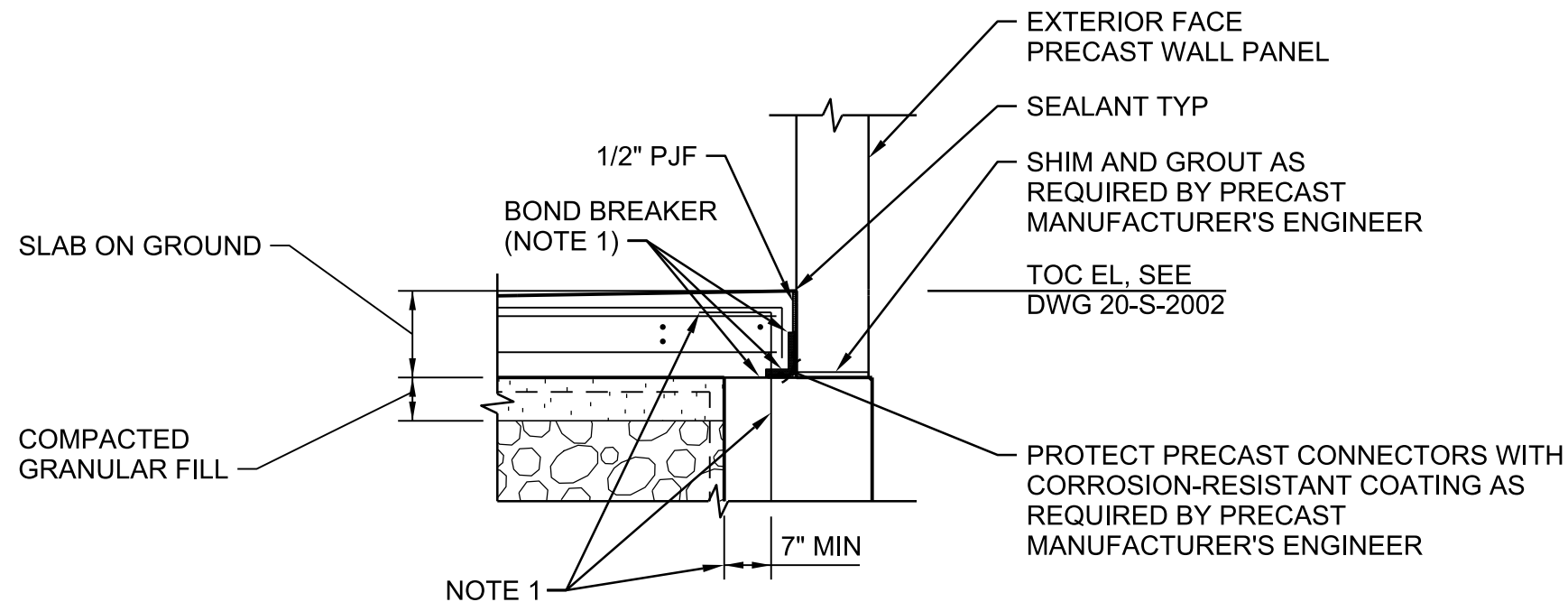


NOTE 1:
- #4 @ 8" BENT BARS TOP LAP W/ SLAB BARS
- #4 @ 8" BENT DOWEL BAR OUT OF TOP OF WALL.
COORDINATE DOWEL SPACING TO AVOID CONFLICT WITH WALL PANEL CONNECTORS. EXTEND DOWEL AN EMBED LENGTH INTO TOP OF WALL.

3 DETAIL
1-1/2"=1'-0"
20-S-3002, 20-S-3003

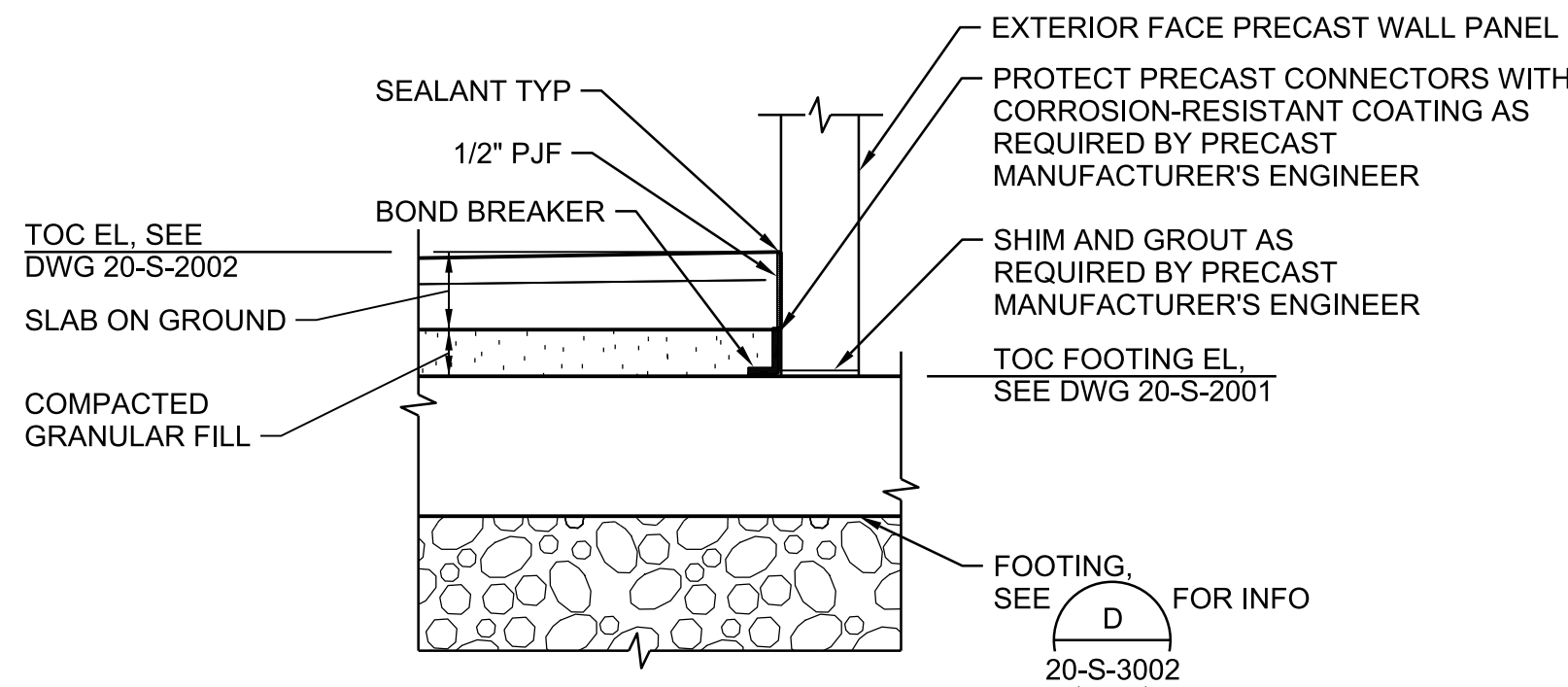


4 DETAIL
1-1/2"=1'-0"
20-S-3002, 20-S-3004



NOTE 1:
- DELETE BOND BREAKER AT G1/20-S-3003.
- SEE G1/20-S-3003 FOR ADDITIONAL INFORMATION.

5 DETAIL
1-1/2"=1'-0"
20-S-3002, 20-S-3003



6 DETAIL
1-1/2"=1'-0"
20-S-3002

Jacobs

STRUCTURAL
DEWATERING AND CONTROL BUILDING
DETAILS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

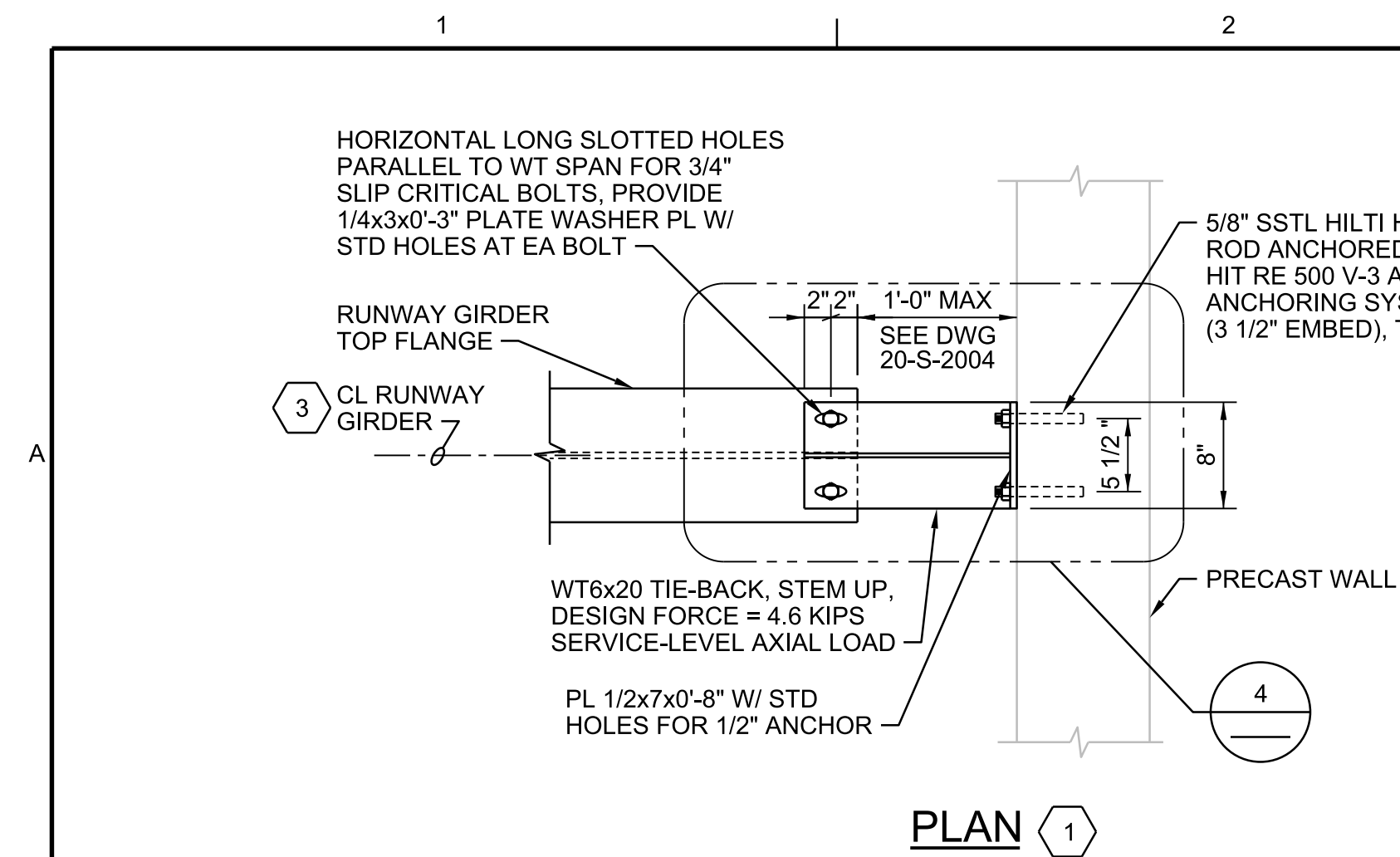
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

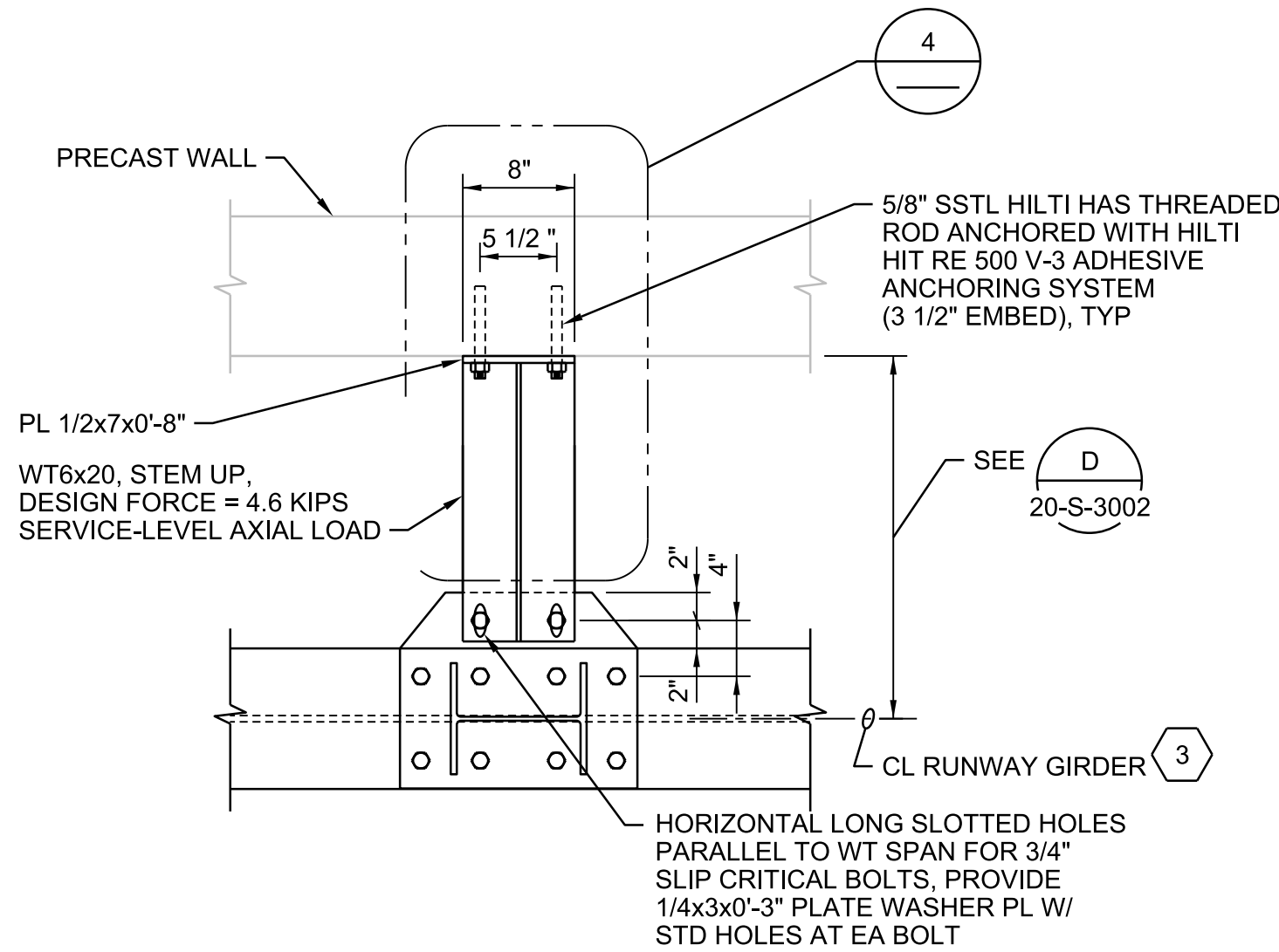
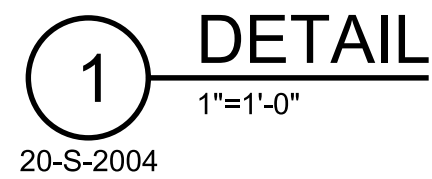
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CONFORMED DOCUMENTS

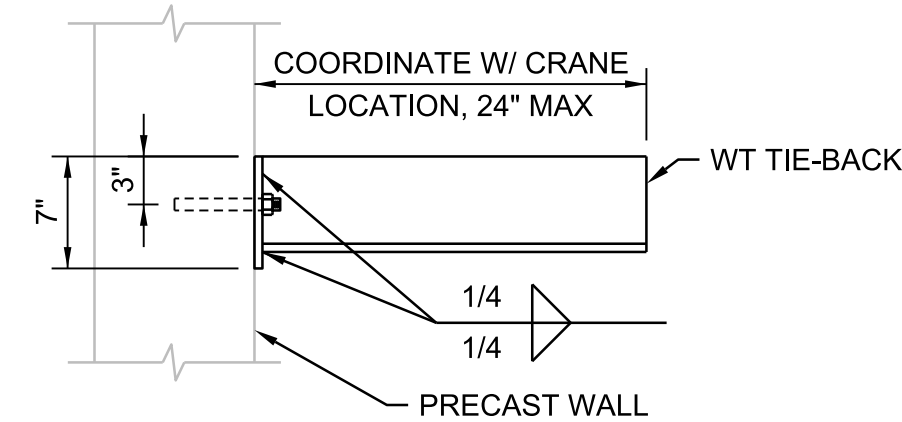
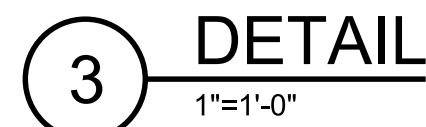
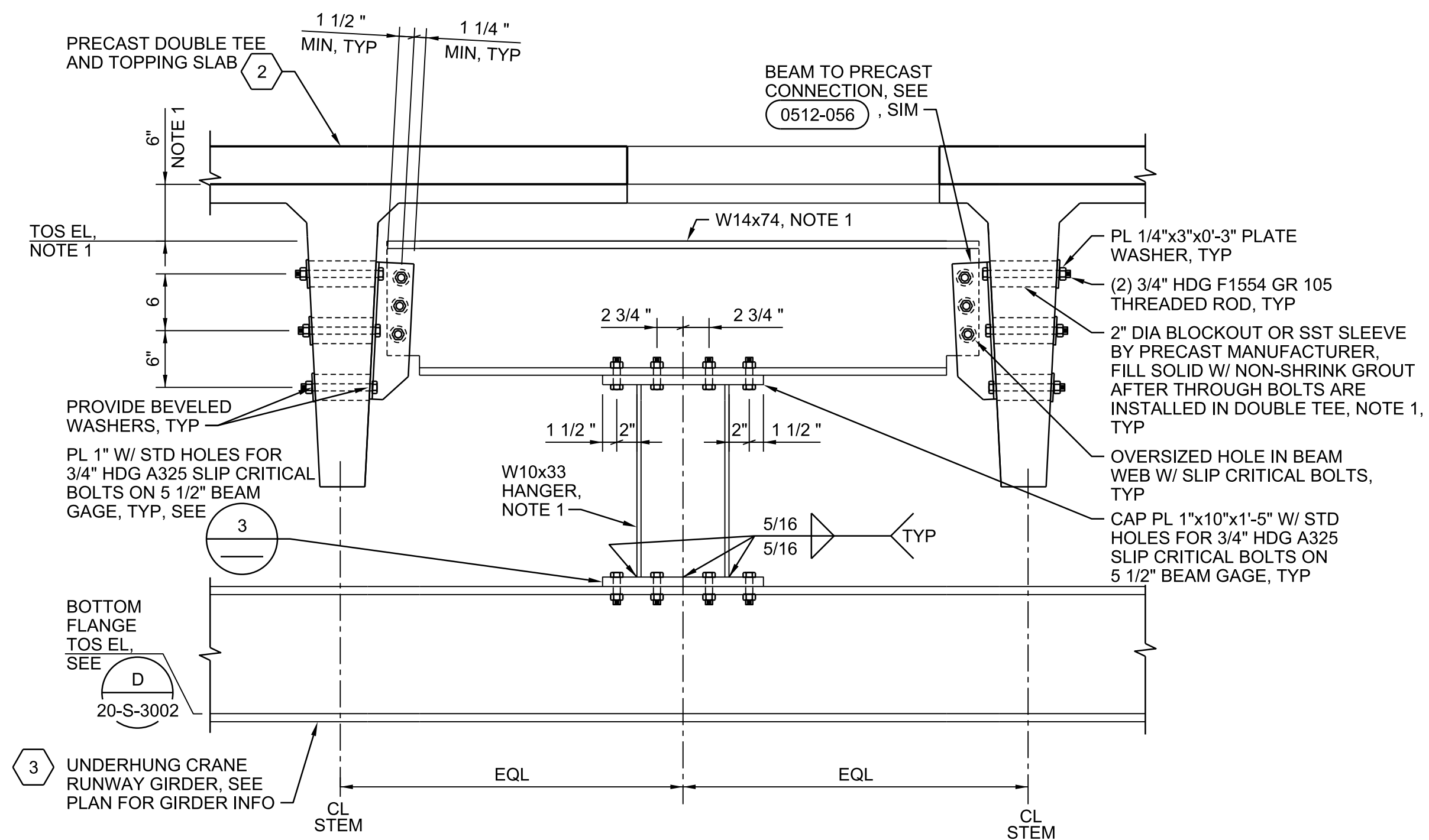
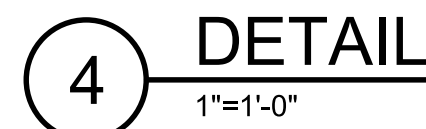
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VERIFY SCALE	
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DATE	MAY 2021
PROJ	D3226100
DWG	20-S-5001
SHEET	092 of 270



PLAN

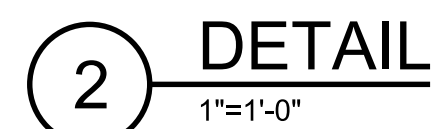
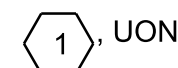


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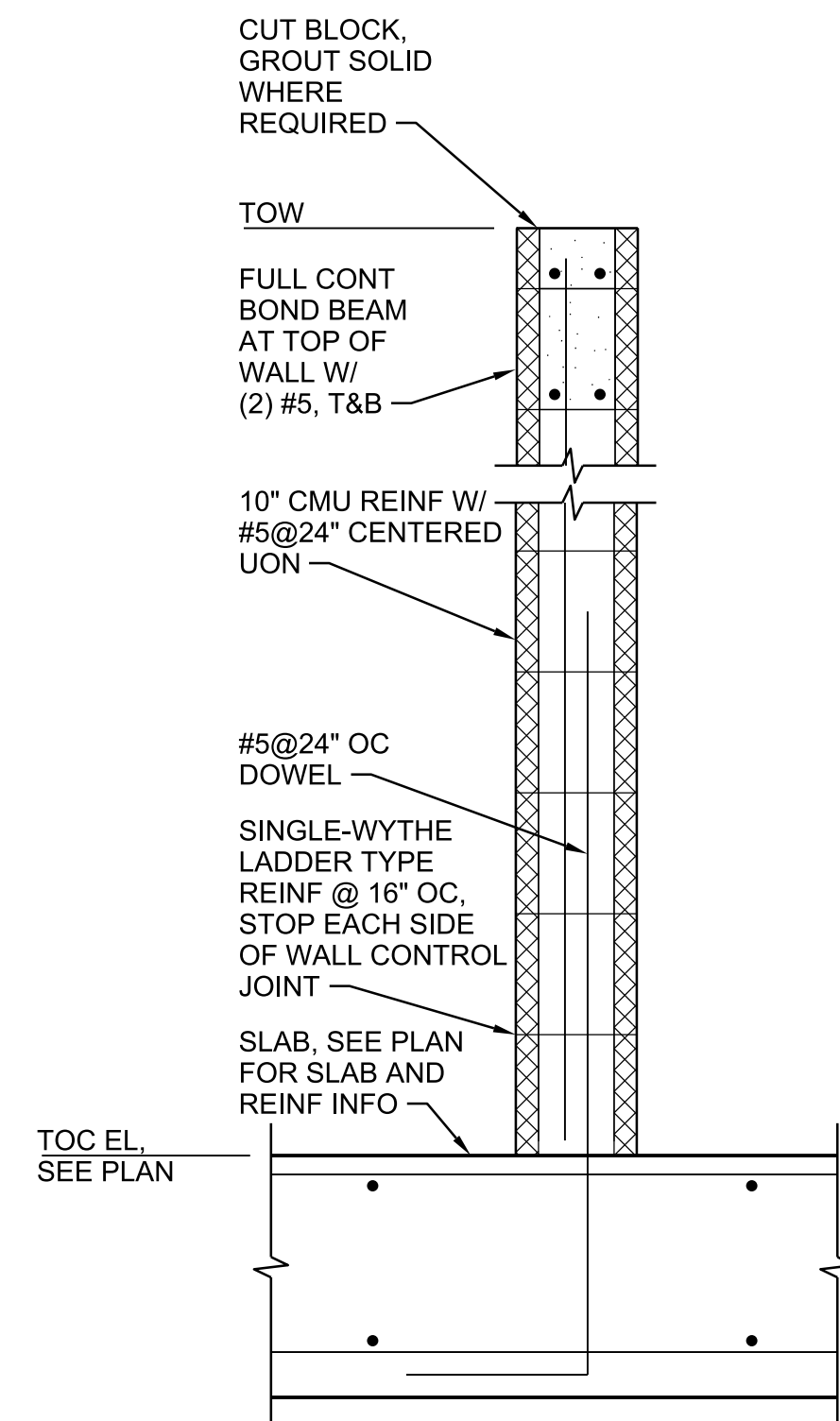
ELEVATION

NOTES:

1. COORDINATE FINAL LENGTH/ LOCATION WITH PRECAST MANUFACTURER AND CRANE SPEC 41 22 13.13 PRIOR TO FABRICATION AND/ OR CONSTRUCTION.
2. SERVICE-LEVEL HANGER DESIGN D + MAXIMUM WHEEL LOAD = 25 KIPS. 30 KIPS WITH 1.25 IMPACT FACTOR.

ELEVATION

20-S-2004, 20-S-3002
20-S-3003



TYPE A



20-S-2002

SHEET KEYNOTES

1. COMPONENTS OF CRANE RUNWAY BRACE ASSEMBLY SHALL BE 316L STAINLESS STEEL, EXCEPT SLIP-CRITICAL BOLTS SHALL BE A325 HOT-DIP GALVANIZED BOLTS. BLOCK PAINT/COATINGS AT SLIP-CRITICAL FASTENERS.
2. SEE 20-S-2004 FOR ROOF CONSTRUCTION.
3. PROVIDE COATING SYSTEM #4 PER SPECIFICATION 09 90 00 ON CARBON STEEL RUNWAY BEAM.

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

AREA WATER & SEWER SYSTEM (MAWSS)

MOBILE: ALABAMA

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS IN IT

Jacobs

STRUCTURAL

DEWATERING AND CONTROL BUILDING DETAILS

SCALE AS NOTED

VERIFY SCALE

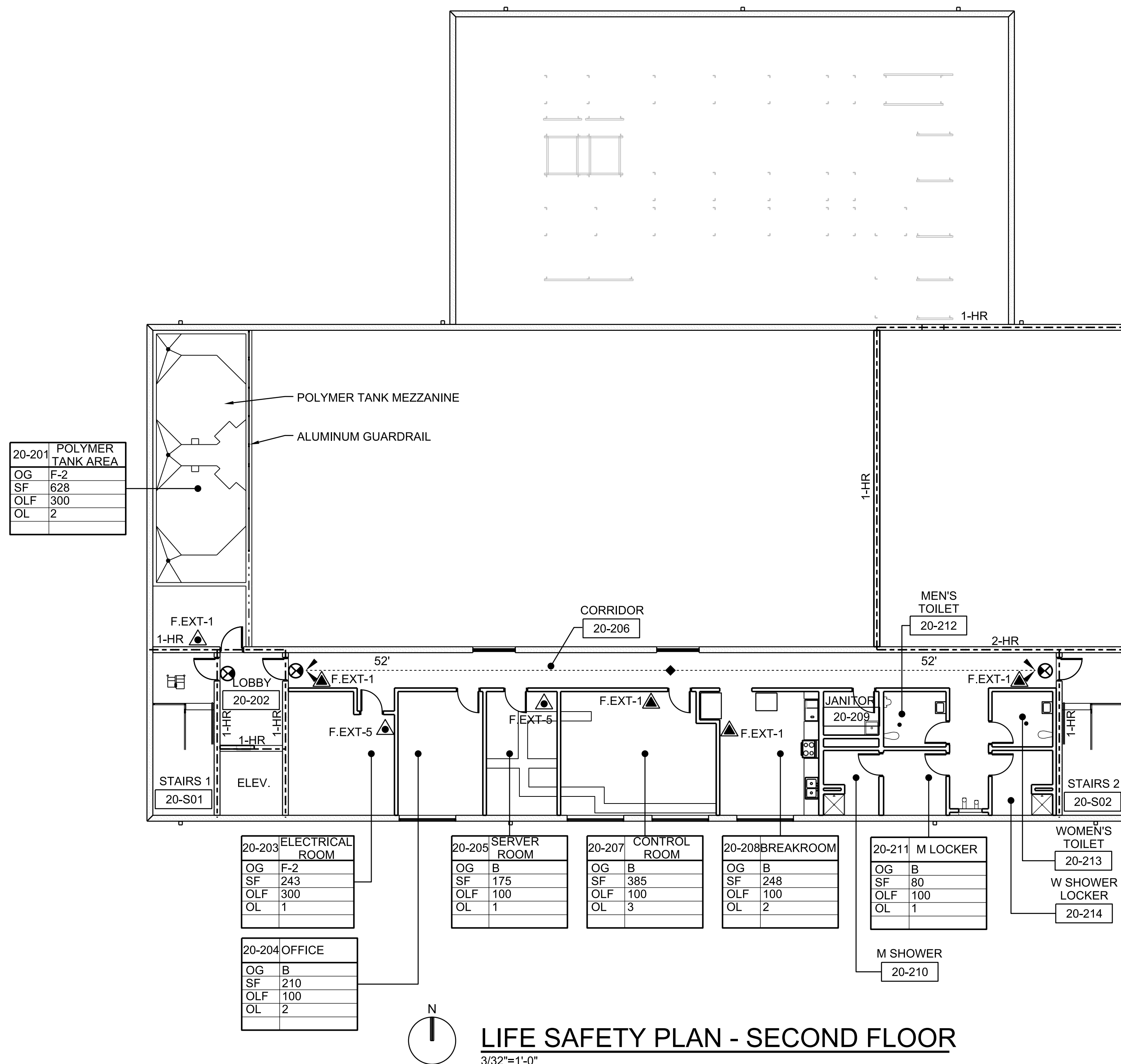
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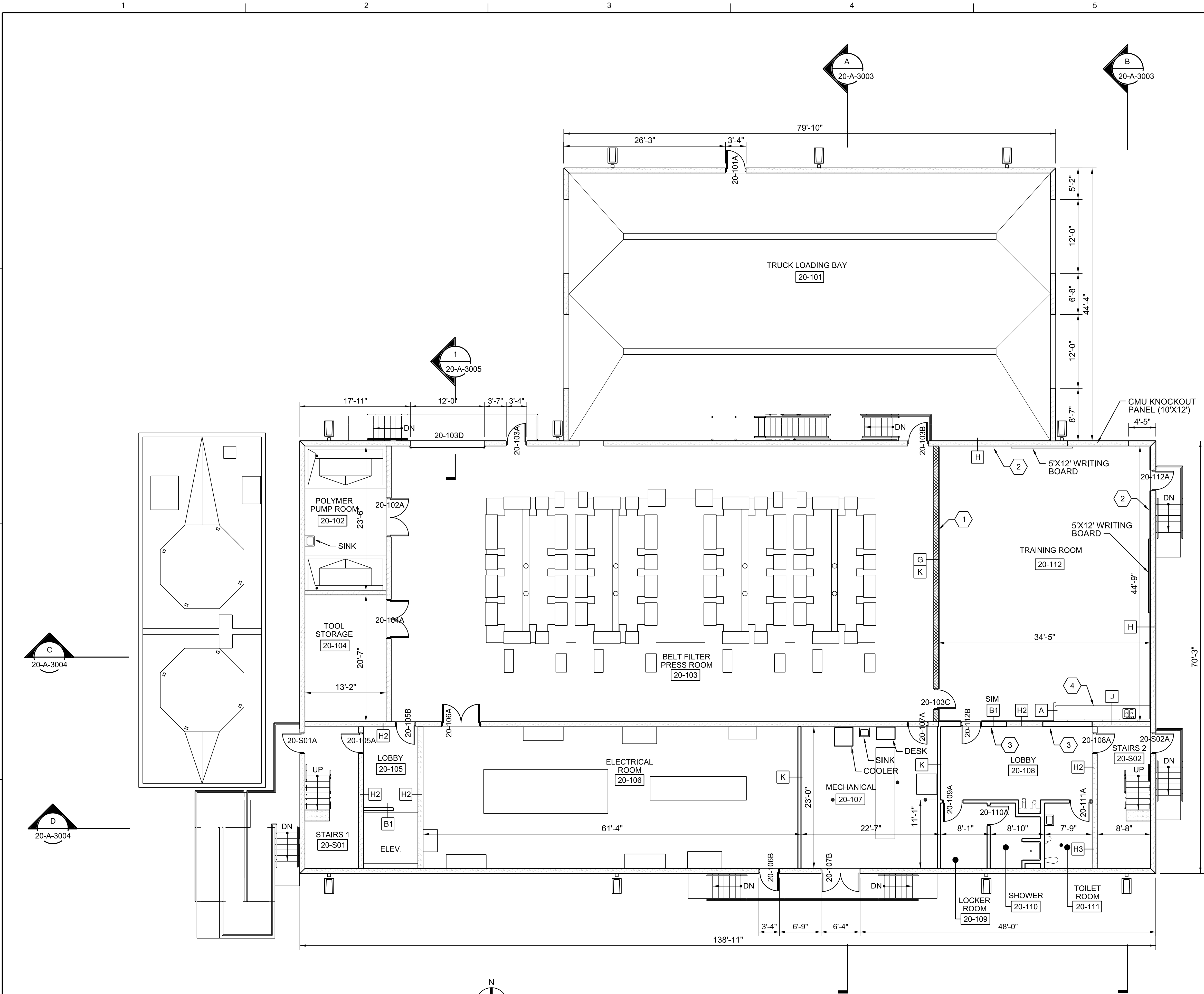
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DWG	20-S-5002
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SHEET 093 of 270





GENERAL NOTES

- 1. FOR ARCHITECTURAL LEGEND AND WALL TYPES SEE GENERAL SHEET.
- 2. FOR SIGN INFORMATION AND TYPE DESCRIPTIONS SEE SPECIFICATIONS SECTION 10 14 00.
- 3. FOR TOILET AND BATH ACCESSORIES SEE SPEC SECTION 10 28 00.
- 4. FOR ACCESSIBILITY INFORMATION AND MOUNTING HEIGHTS OF TOILETS AND ACCESSORIES SEE GENERAL SHEET.
- 5. FOR DOOR, WINDOW, AND LOUVER SCHEDULES SEE SHEET 20-A-6001, 20-A-6002 AND 20-A-6003.
- 6. FOR FINISH SCHEDULE SEE SHEET 20-A-6004.
- 7. SEE ENLARGED FLOOR PLAN ON SHEET 20-A-4002 FOR RESTROOM WALL TYPES.

SHEET KEYNOTES

- 1. TEMPORARY CMU AND GWB WALL TO BE REMOVED IN THE FUTURE FOR CLASS-A PROCESS SPACE.
- 2. TEMPORARY METAL FURRING AND GYPSUM BOARD TO BE REMOVED IN THE FUTURE FOR CLASS-A PROCESS SPACE.
- 3. TEMPORARY METAL STUD AND GYPSUM BOARD WALL TO BE REMOVED IN THE FUTURE FOR CLASS-A PROCESS SPACE.
- 4. TEMPORARY CASEWORK AND PLUMBING TO BE REMOVED IN THE FUTURE FOR CLASS-A PROCESS SPACE.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

Jacobs
ARCHITECTURAL

DEWATERING AND
CONTROL BUILDING
FIRST FLOOR PLAN

1/8"=1'-0	
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DATE	MAY 2021
PROJ	D3226100
DWG	20-A-2003
SHEET	096 of 270

CONFORMED DOCUMENTS

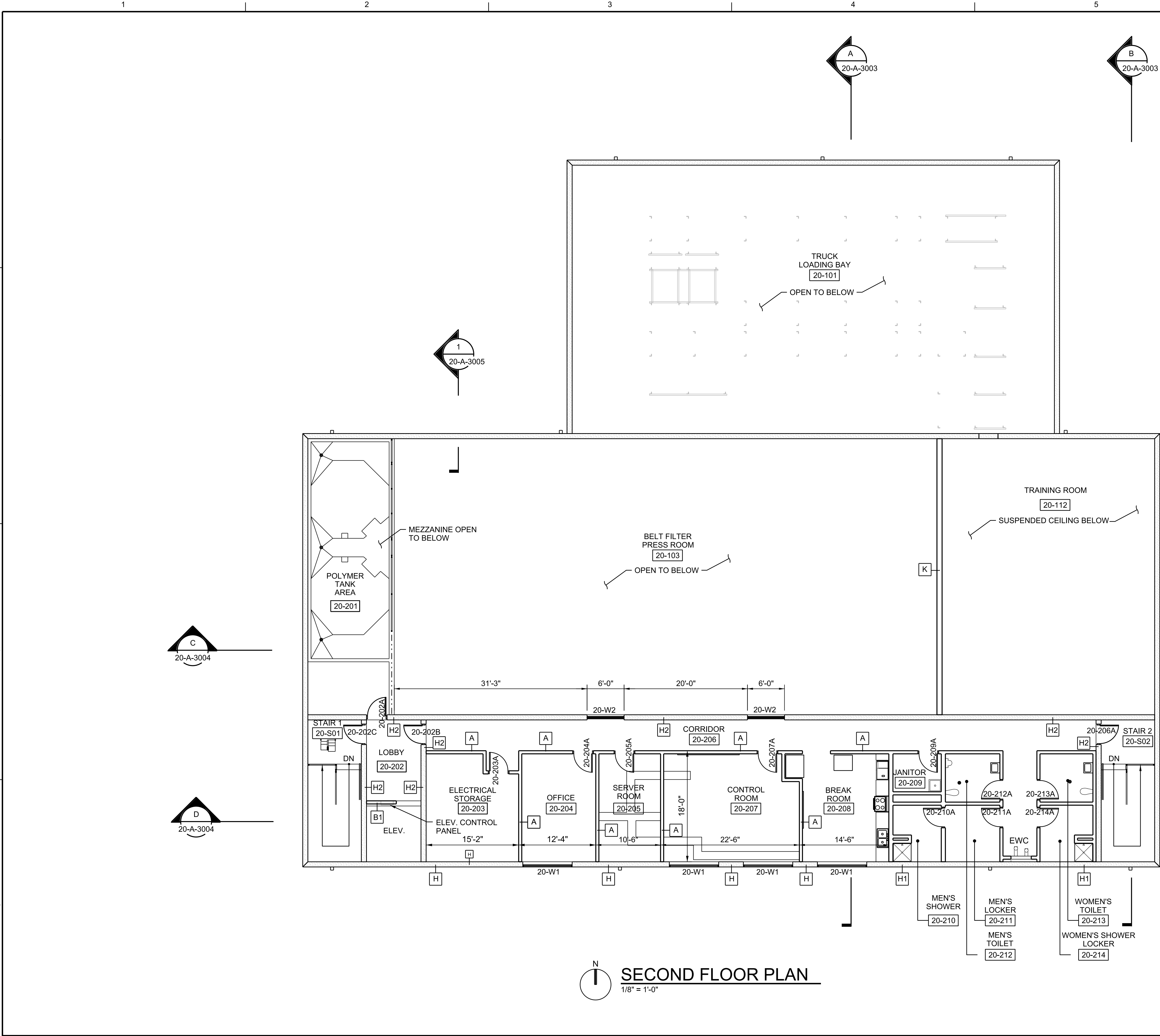
DR BJ NARAMORE
CHK T DODGE
REVISION
NO. DATE
DSGN V ROMAN-CARDONA

MOBILE, ALABAMA
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A DOLSAK



GENERAL NOTES

- FOR ARCHITECTURAL LEGEND AND WALL TYPES SEE SHEET GENERAL SHEET.
- FOR SIGN INFORMATION AND TYPE DESCRIPTIONS SEE SPECIFICATIONS SECTION 10 14 00.
- FOR TOILET AND BATH ACCESSORIES SEE SPEC SECTION 10 28 00.
- FOR ACCESSIBILITY INFORMATION AND MOUNTING HEIGHTS OF TOILETS AND ACCESSORIES SEE DRAWING 20-A-2004.
- FOR DOOR, WINDOW, AND LOUVER SCHEDULES SEE SHEET 20-A-6001, 20-A-6002 AND 20-A-6003.
- FOR FINISH SCHEDULE SEE SHEET 20-A-6004.
- SEE ENLARGED FLOOR PLAN ON SHEET 20-A-4002 FOR RESTROOM WALL TYPES.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

ARCHITECTURAL

DEWATERING AND CONTROL BUILDING
SECOND FLOOR

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

1/8"=1'-0

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE
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DWG
20-A-2004

SHEET
097 of 270

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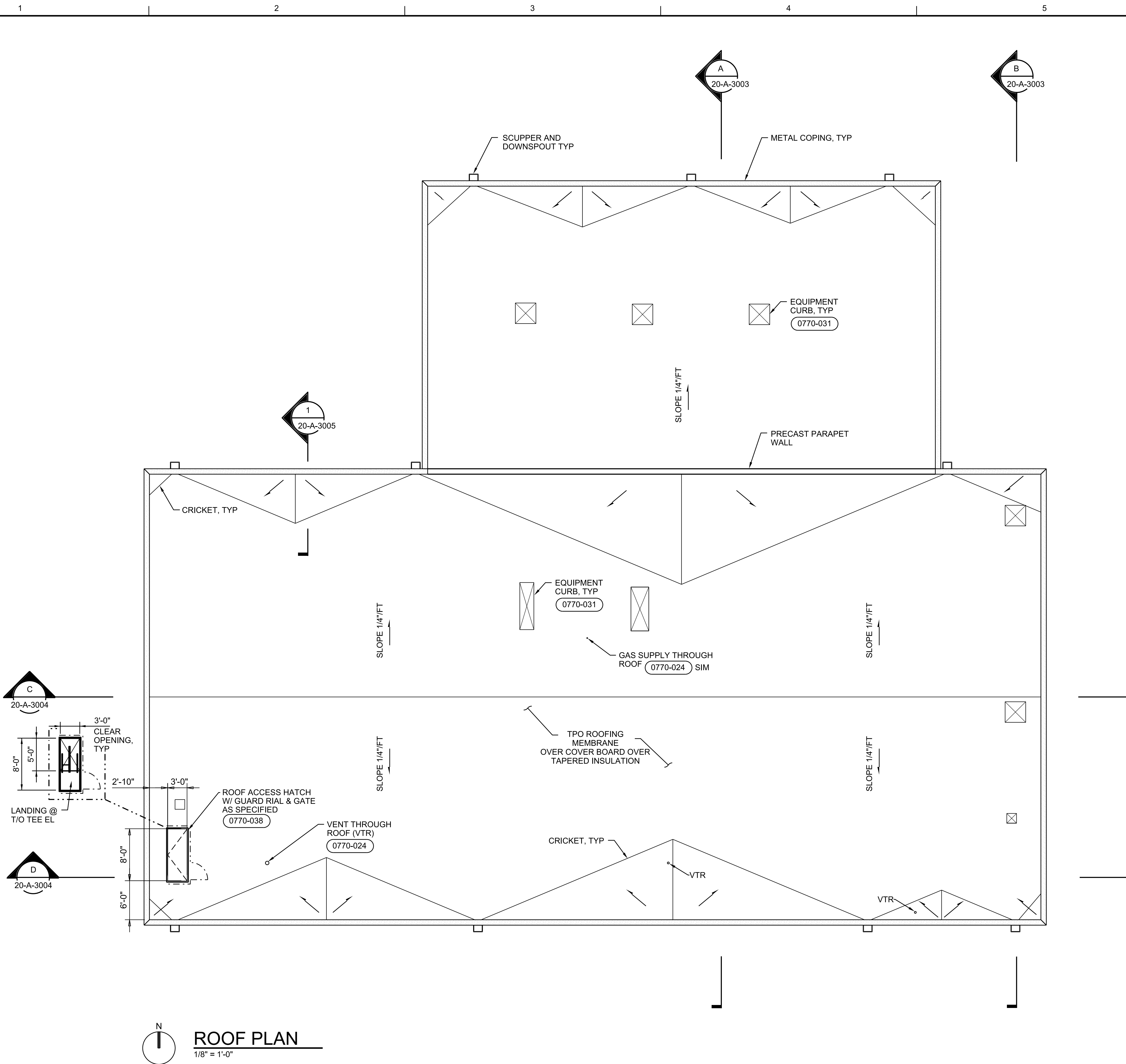
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1. FOR HVAC SEE MECHANICAL DRAWINGS.
2. SEE STANDARD DETAIL FOR EQUIPMENT CURB DETAIL. (0770-031)
3. COORDINATE VENT PIPE LOCATION WITH PLUMBING. SEE DETAIL FOR PIPE PENETRATIONS. (0770-024)
4. INCLUDE IN THE WORK THE SUPPLY AND INSTALLATION OF 1,000 SF OF TPO WALKWAY. LAYOUT TO BE AS DIRECTED BY OWNER.


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25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA
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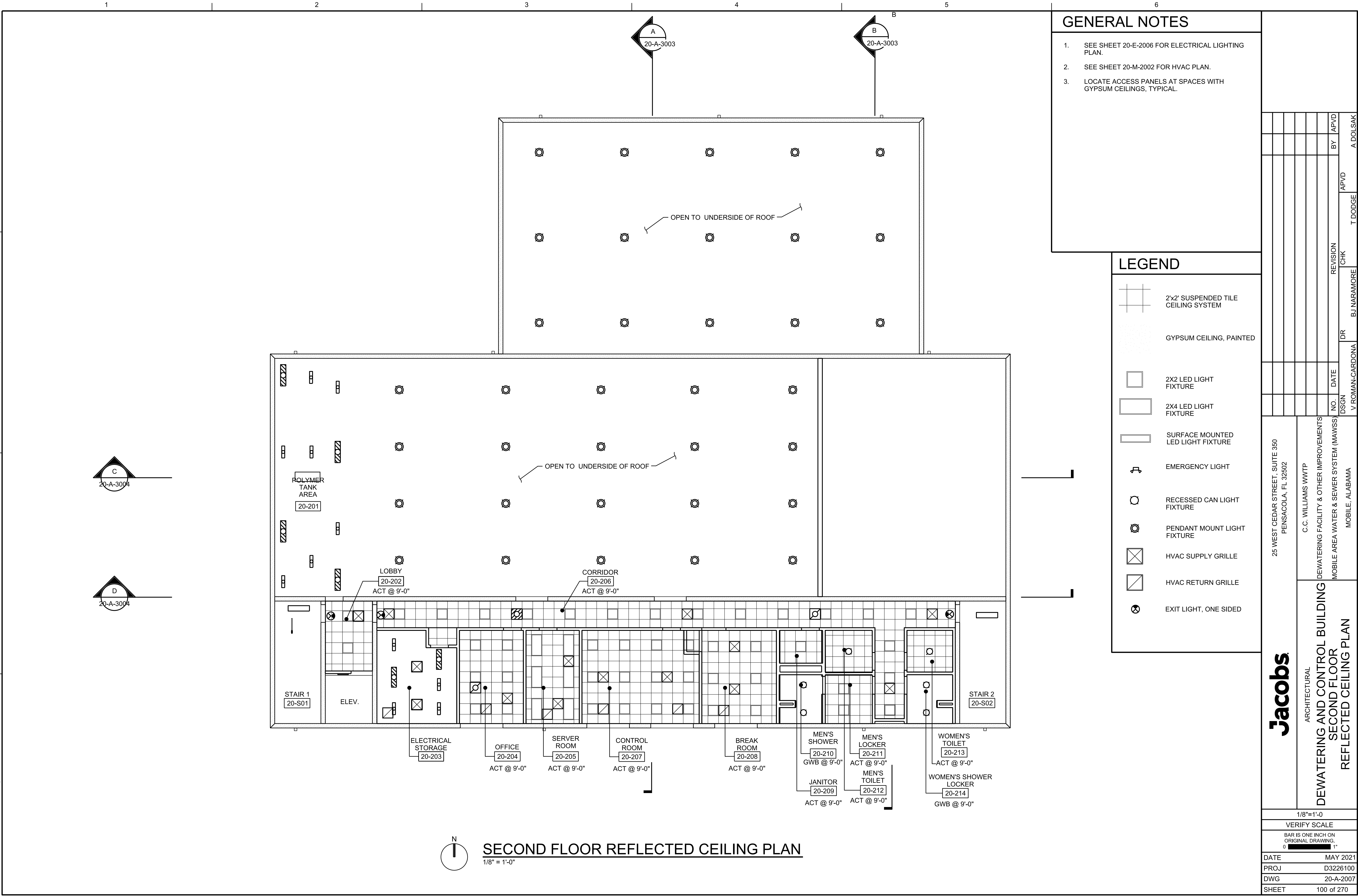
Jacobs

ARCHITECTURAL

DEWATERING AND
CONTROL BUILDING
ROOF PLAN

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DATE	MAY 2021
PROJ	D3226100
DWG	20-A-2005
SHEET	098 of 270

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GENERAL NOTES

- SEE SHEET 20-E-2006 FOR ELECTRICAL LIGHTING PLAN.
- SEE SHEET 20-M-2002 FOR HVAC PLAN.
- LOCATE ACCESS PANELS AT SPACES WITH GYPSUM CEILINGS, TYPICAL.

LEGEND

- 2'x2' SUSPENDED TILE CEILING SYSTEM
- GYPSUM CEILING, PAINTED
- 2X2 LED LIGHT FIXTURE
- 2X4 LED LIGHT FIXTURE
- SURFACE MOUNTED LED LIGHT FIXTURE
- EMERGENCY LIGHT
- RECESSED CAN LIGHT FIXTURE
- PENDANT MOUNT LIGHT FIXTURE
- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- EXIT LIGHT, ONE SIDED

Jacobs

ARCHITECTURAL
DEWATERING AND CONTROL BUILDING
SECOND FLOOR
REFLECTED CEILING PLAN

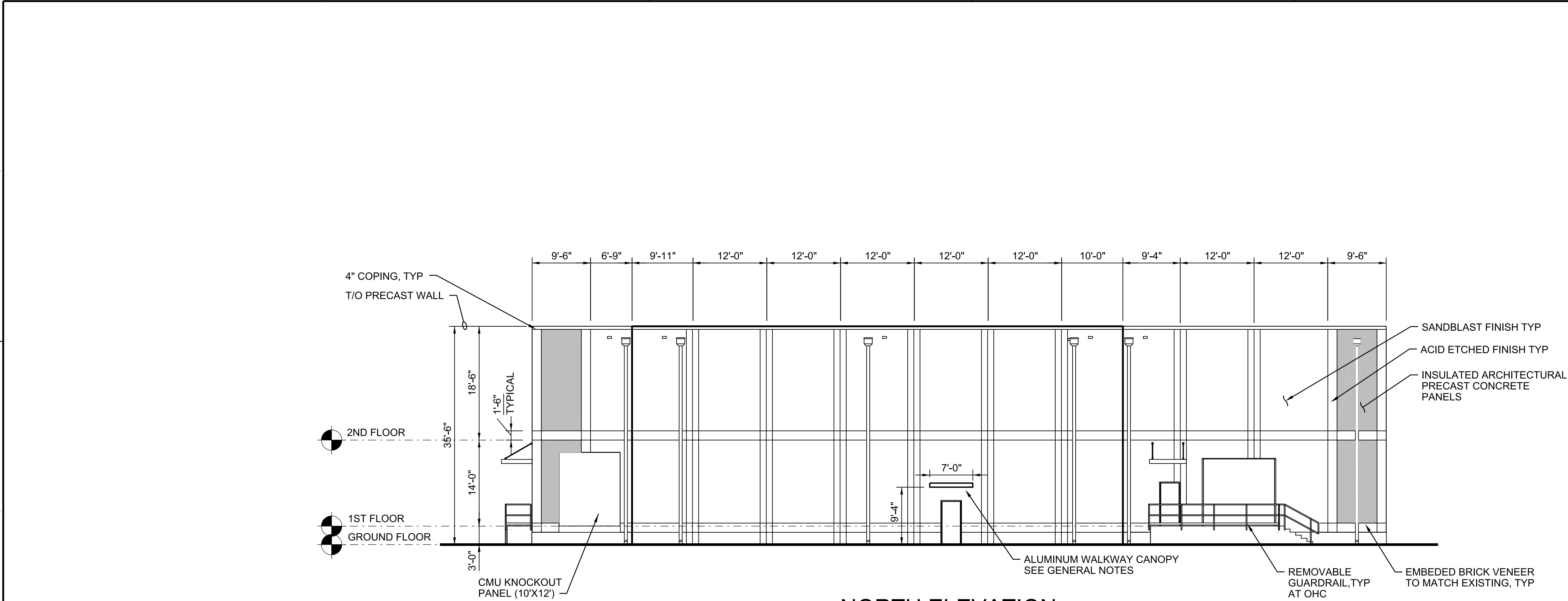
25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

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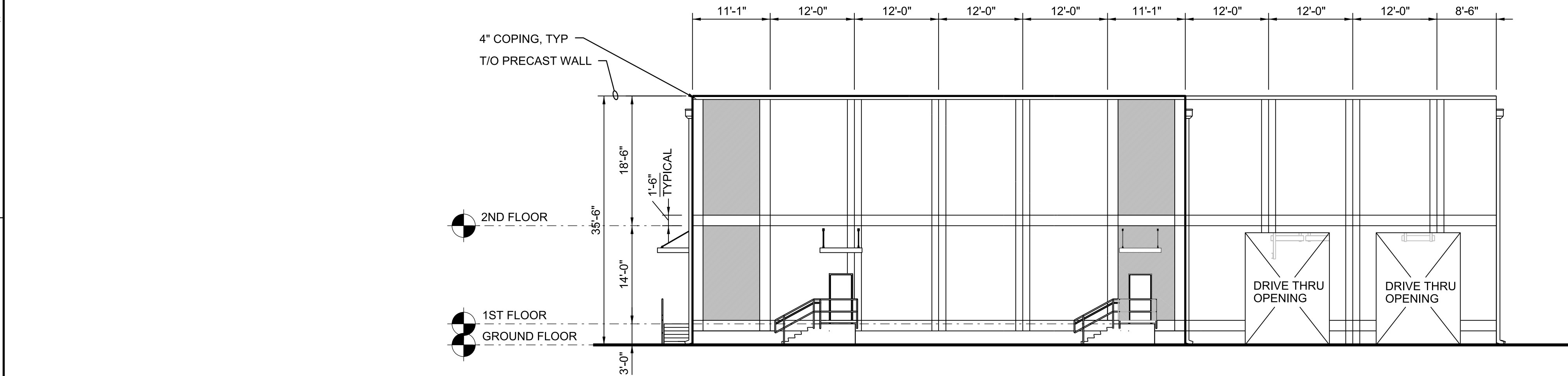
CONFORMED DOCUMENTS

1/8"=1'-0
VERIFY SCALE
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DATE MAY 2021
PROJ D3226100
DWG 20-A-2007
SHEET 100 of 270



NORTH ELEVATION

3/32" = 1'-0"



EAST ELEVATION

3/32" = 1'-0"

GENERAL NOTES

- LOUVER OPENING LOCATIONS TO BE COORDINATED BY THE CONTRACTOR WITH THE HVAC DESIGN, ARCHITECTURAL ELEVATIONS AND THE PRECAST WALL PANEL MANUFACTURER TYP.
- SEE SHEET 20-A-6001 FOR DOOR AND HARDWARE SCHEDULE.
- SEE SPECIFICATIONS SECTION 03 40 00 FOR PRECAST CONCRETE WALL PANELS.
- FOR PRECAST PANEL JOINT, REVEALS AND CORNER DETAILS SEE DETAILS CD1-001, RD1-001 AND PJ1-001 ON DRAWING 99-A-5005.
- ALUMINUM SIDEWALK CANOPY TO EXTEND FROM THE EXISTING ADMINISTRATION BUILDING TO THE DEWATERING BUILDING TRUCKBAY DOOR AS SHOWN ON THE DRAWINGS.
- ALUMINUM SIDEWALK CANOPY SHALL ATTACH TO THE EXISTING ADMINISTRATION BUILDING WALL AND THE DEWATERING BUILDING WALL TO PREVENT WATER PENETRATION BELOW THE CANOPY AND INTO THE WALLS OF BOTH BUILDINGS. SUBMIT CANOPY CONNECTION DETAILS FOR EACH BUILDING FOR REVIEW BY THE ENGINEER AND ARCHITECT OF RECORD FOR THIS PROJECT.
- CONTRACTOR TO PROVIDE DESIGN FOR THE CONCRETE FOUNDATION REQUIRED FOR THE ALUMINUM SIDEWALK CANOPY AND THE CONCRETE SIDEWALK IN ACCORDANCE WITH THE ALUMINUM SIDEWALK MANUFACTURER TO MEET THE STRUCTURAL REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND STRUCTURAL CRITERIA SHOWN ON THE CONTRACT DOCUMENTS.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

JACOBS
ARCHITECTURAL
DEWATERING AND
CONTROL BUILDING
NORTH AND EAST ELEVATIONS

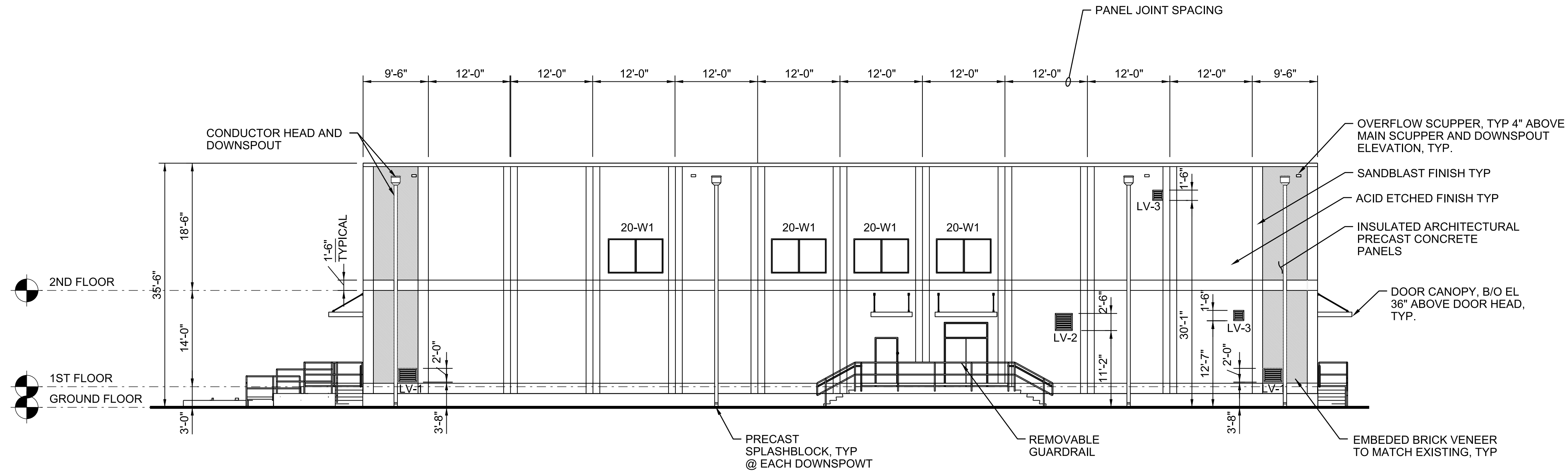
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PROJ	D3226100
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SHEET	101 of 270

CONFORMED DOCUMENTS

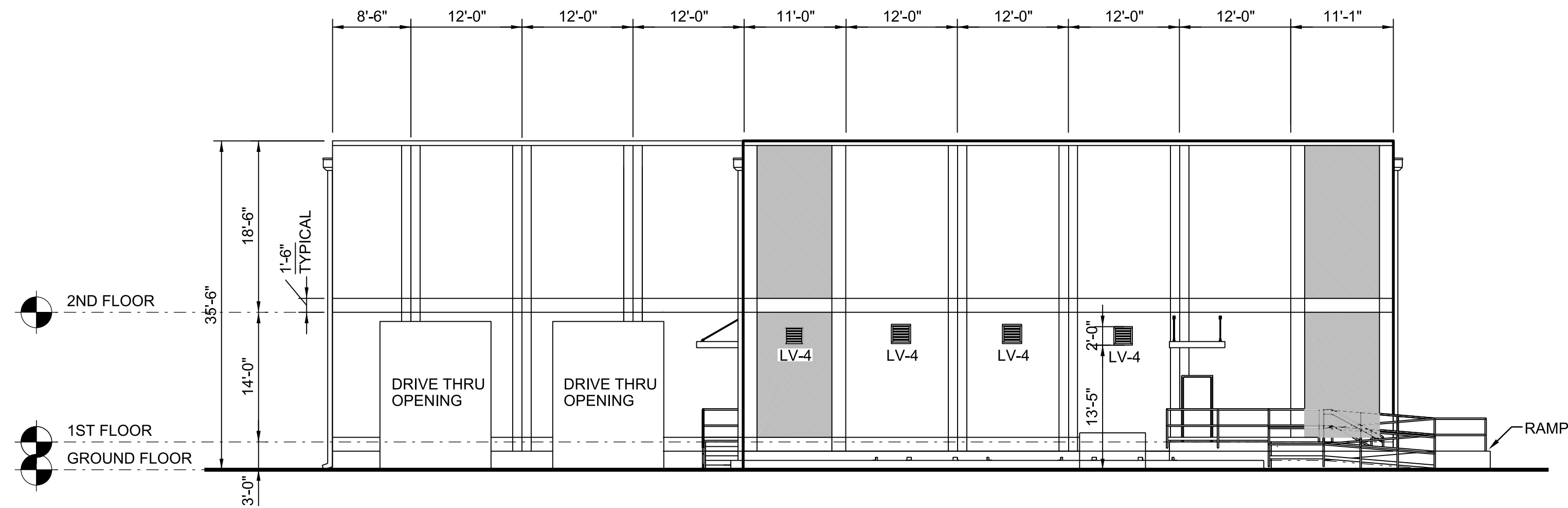
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GENERAL NOTES



1. LOUVER OPENING LOCATIONS TO BE COORDINATED BY THE CONTRACTOR WITH THE HVAC DESIGN, ARCHITECTURAL ELEVATIONS AND THE PRECAST WALL PANEL MANUFACTURER TYP.
2. SEE SHEET 20-A-6001 FOR DOOR AND HARDWARE SCHEDULE.
3. SEE SPECIFICATIONS SECTION 03 40 00 FOR PRECAST CONCRETE WALL PANELS.
4. FOR PRECAST PANEL JOINT, REVEALS AND CORNER DETAILS SEE DETAILS CD1-001, RD1-001 AND PJ1-001 ON DRAWING 99-A-5005.

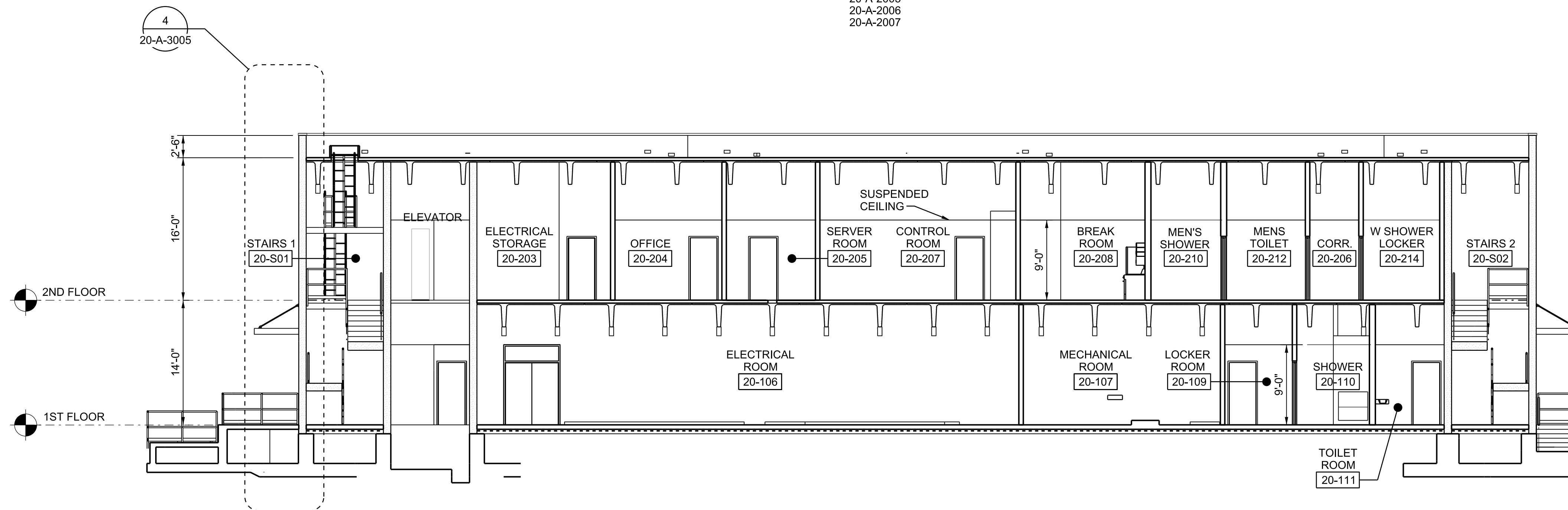
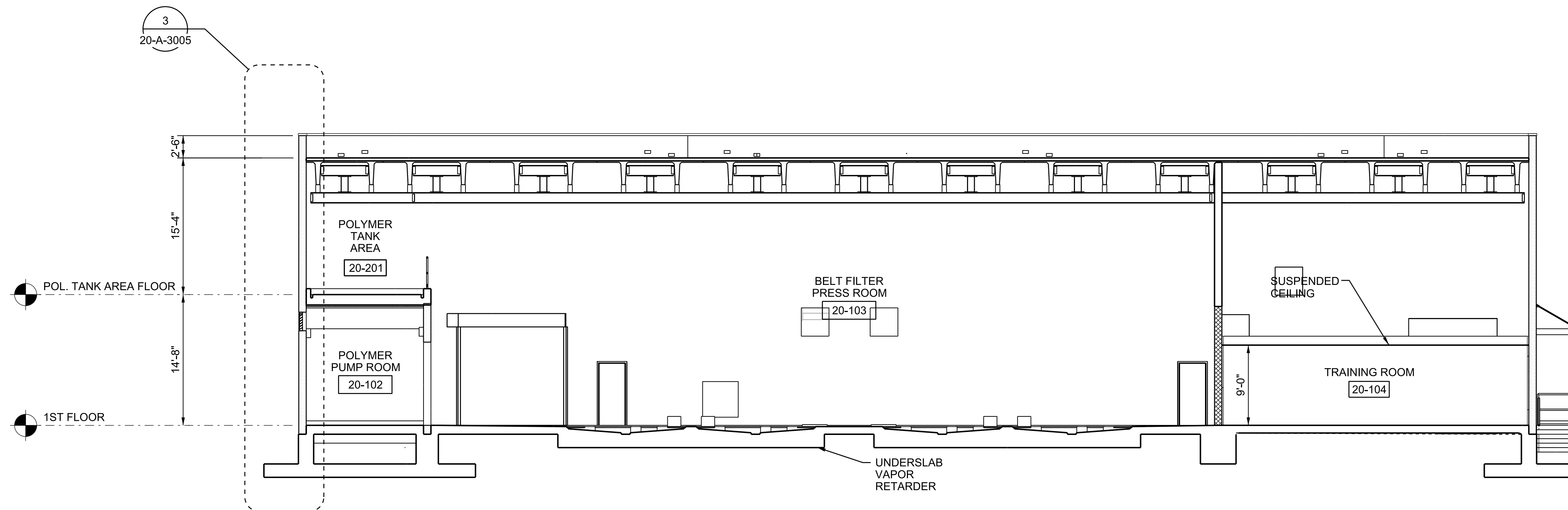


SOUTH ELEVATION
3/32"=1'-0"



WEST ELEVATION
3/32"=1'-0"

		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	
ARCHITECTURAL		C.C. WILLIAMS WWTP	
DEWATERING AND CONTROL BUILDING SOUTH AND WEST ELEVATIONS		DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA	
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DWG	20-A-3002		
SHEET	102 of 270		



SECTION _____


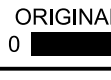
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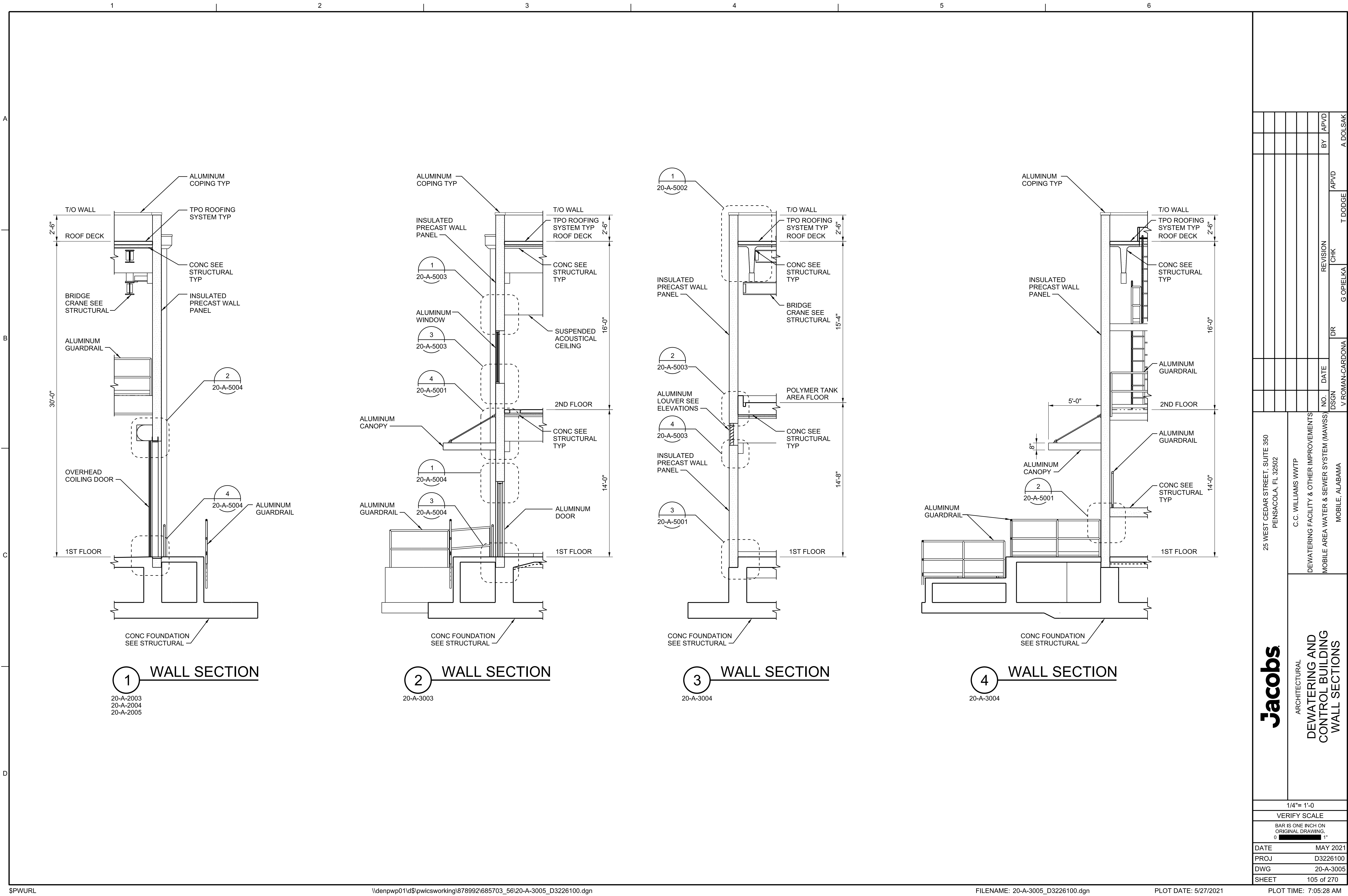
20-A-2003
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20-A-2006
20-A-2007

SECTION

$$1/8'' = 1'-0''$$

20-A-2003
20-A-2004
20-A-2005
20-A-2006
20-A-2007

		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA		NO. _____ DATE _____ DSGN _____ DR _____ V ROMAN-CARDONA		REVISION _____ CHK _____ BJ NARAMORE		APVD _____ T DODGE		A DOLSAK	
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SHEET		104 of 270											



Jacobs

ARCHITECTURAL
DEWATERING AND
CONTROL BUILDING
WALL SECTIONS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

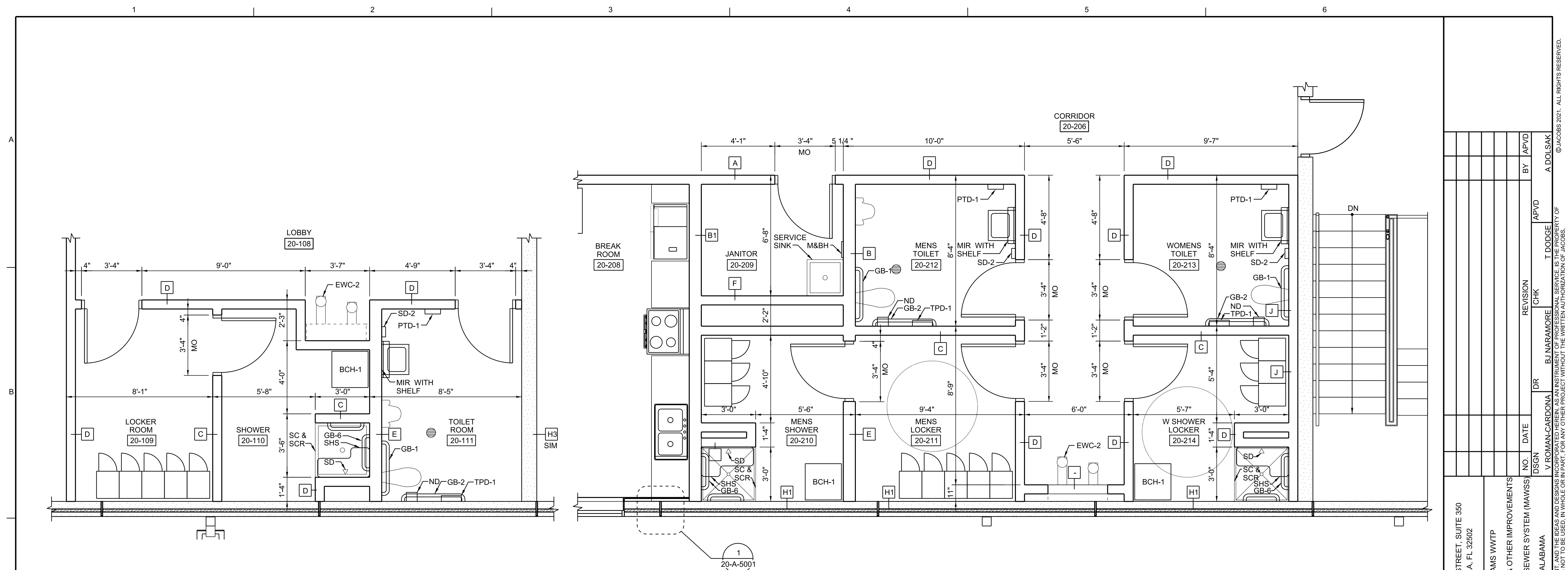
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

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1 ENLARGED FLOOR PLAN
3/8" = 1'
20-A-2003

2 ENLARGED FLOOR PLAN
3/8"=1'
20-A-2004

TOILET ACCESSORIES

SPECIFICATION SECTION 10 28 00

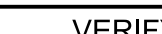

TPD-1	SURFACE MOUNTED DUAL ROLL TOILET PAPER DISPENSER
SD-2	WALL MOUNTED LIQUID SOAP DISPENSER
MIR	MIRROR, SIZE ON SPEC SECTION
PTD-1	RECESSED TOUCHLESS PAPER TOWEL DISPENSER AND RECEPTABLE
ND	SURFACE MOUNTED NAPKIN DISPOSAL
M&BH	MOP AND BROOM HOLDER (24")
GB-1	GRAB BARS (STRAIGHT) (36")
GB-2	GRAB BARS (STRAIGHT) (42")
GB-6	GRAB BARS (SHOWER, CORNER TYPE)
BCH-1	FOLD-UP DRESSING ROOM BENCH, PHENOLIC TOP. TOP COLOR: TBS
SD	RECESSED SOAP DISH
SHS	FOLD-UP SHOWER SEAT (L-SHAPED)
RH	ROBE HOOK
SC	SHOWER CURTAIN
SCR	SHOWER CURTAIN ROD

GENERAL NOTES

1. FOR ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES SEE GENERAL ARCHITECTURE SHEET.
2. INSTALLATION OF ACCESSIBLE TOILET AND BATH ACCESSORIES AND OTHER FIXTURES AND ITEMS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND WHEN APPLICABLE, FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. 2004 ED
3. GRAB BARS AND SHOWER SEATS ARE TO BE CONSTRUCTED AND INSTALLED TO MEET THE FOLLOWING STRUCTURAL STRENGTHS: 250 LB. BENDING MOMENT 250 LB. SHEAR STRESS SHEAR FORCE INDUCED ON FASTENER OR MOUNTING DEVICE FROM APPLICATION OF 250 LB. FORCE SHALL BE LESS THAN ALLOWABLE LATERAL LOAD OF FASTENER OR SUPPORT STRUCTURE. TENSILE FORCE INDUCED BY DIRECT TENSION FORCE OF 250 LB. PLUS MAXIMUM MOMENT FROM THE APPLICATION OF 250 LB. SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN FASTENER AND SUPPORTING STRUCTURE.
4. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
5. DOOR OPENING FORCE: EXTERIOR - 8.5 LBS; SLIDING OR FOLDING - 5 LB; INTERIOR HINGED - 5 LB
6. FOR INFORMATION REGARDING TOILET AND BATH ACCESSORIES, SEE SPECIFICATION 10 89 00.
7. SEE SHEET 20-A-4003 FOR WALL TILE DETAIL.

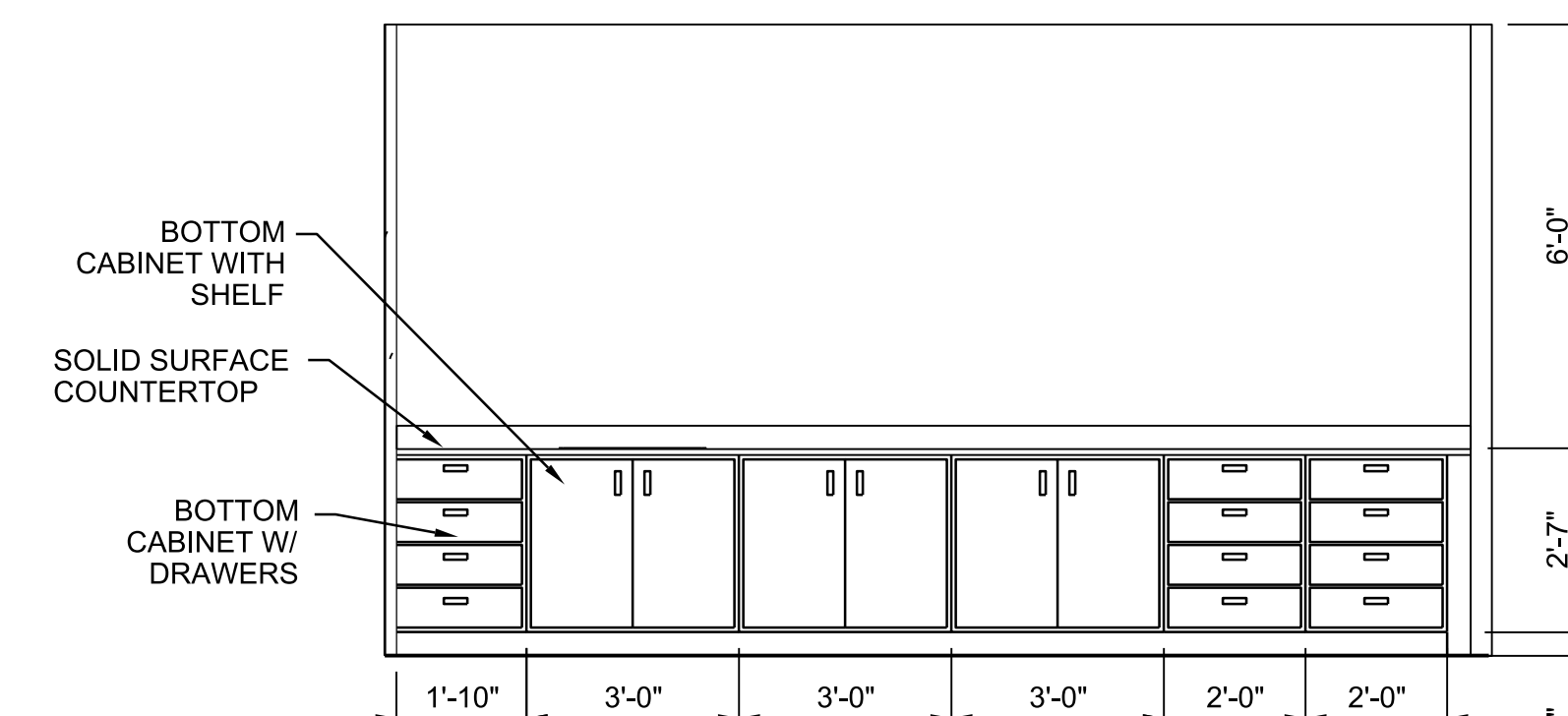
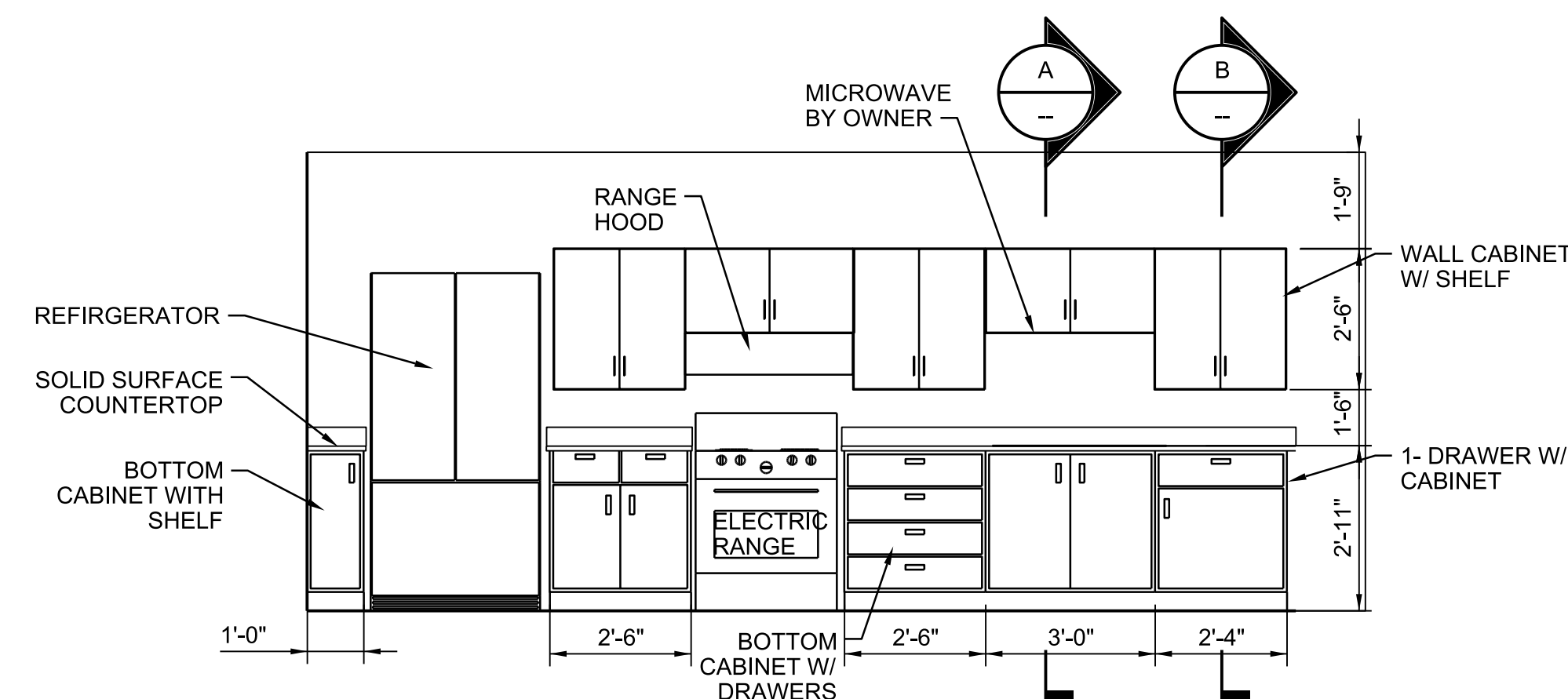
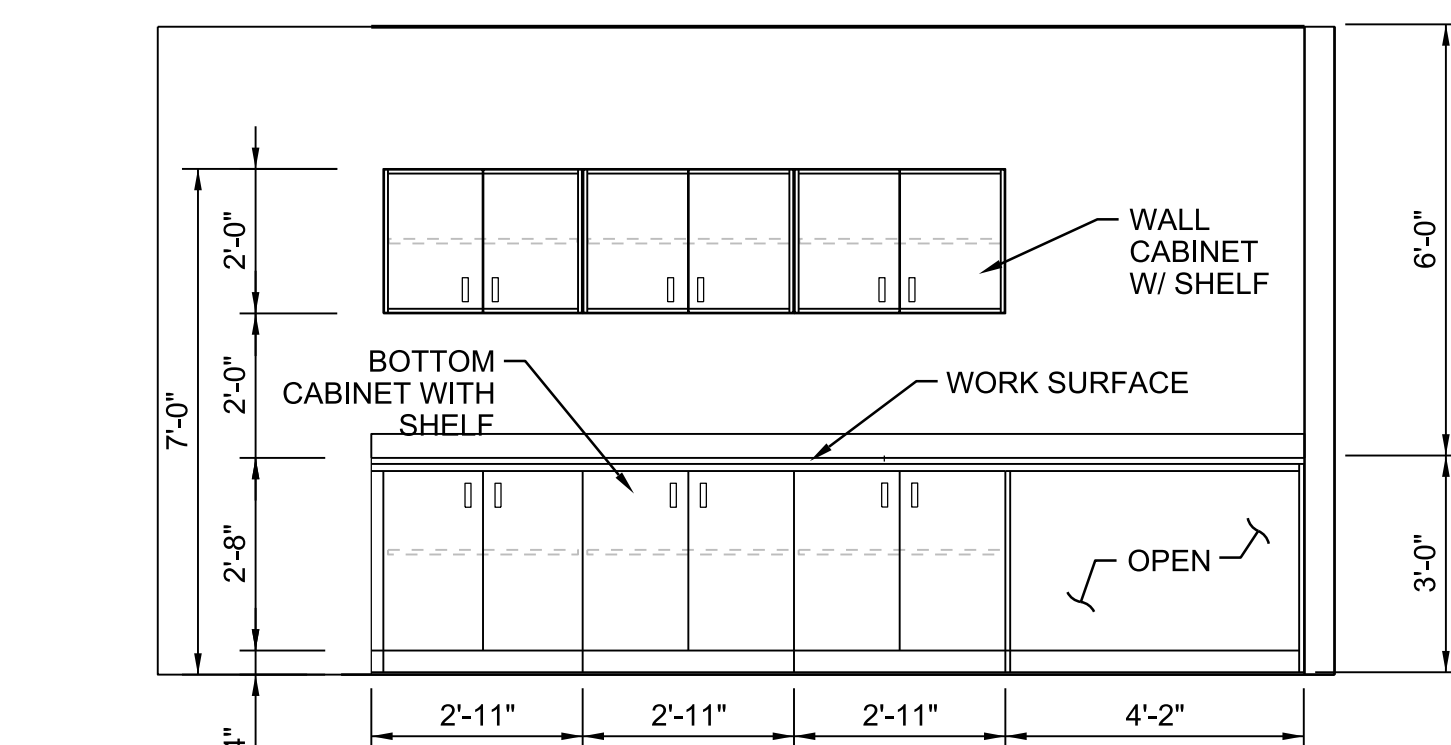
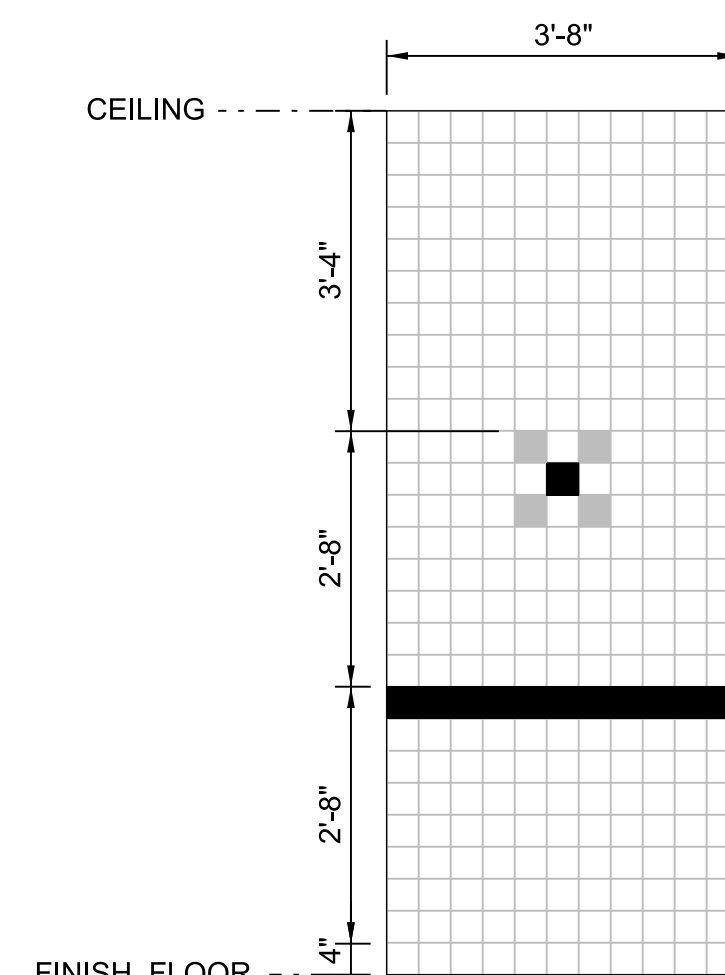
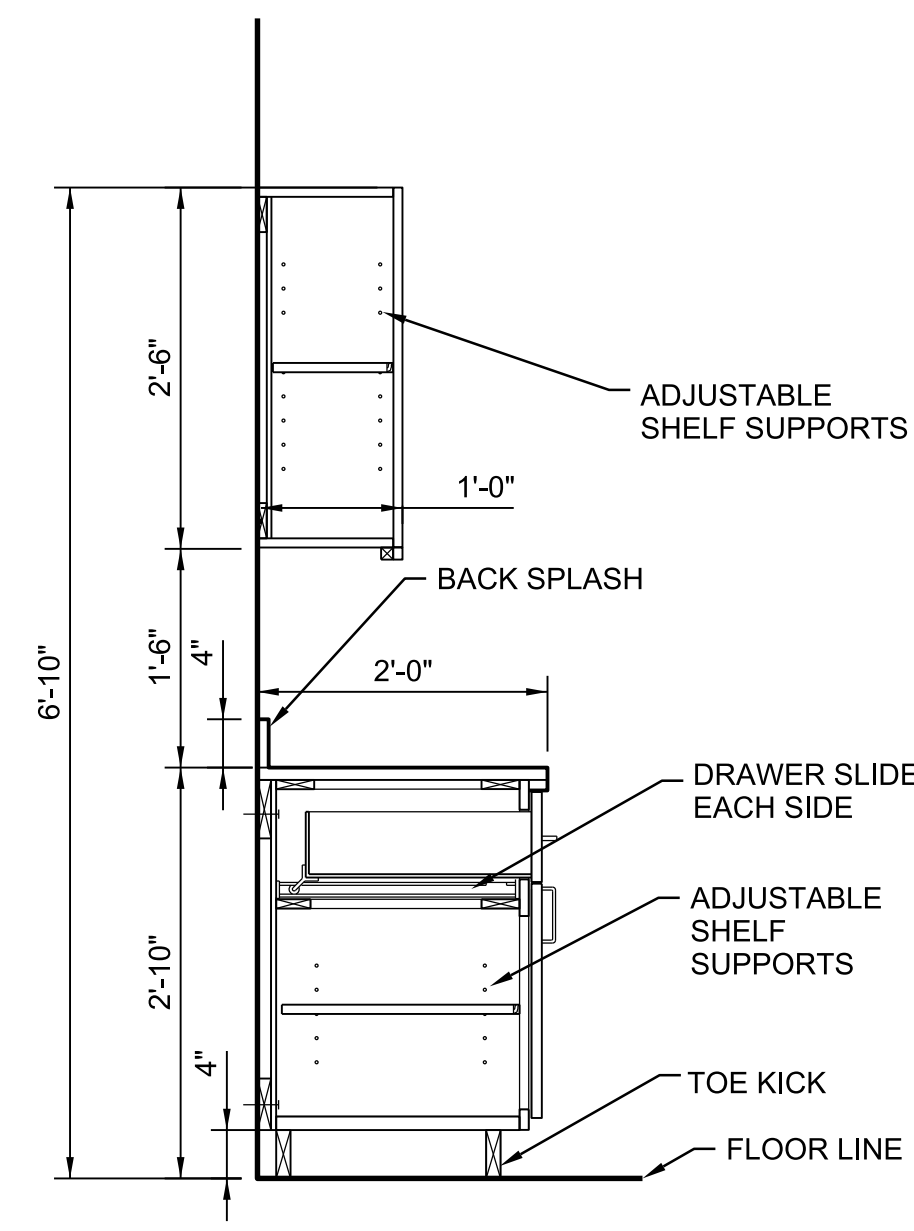
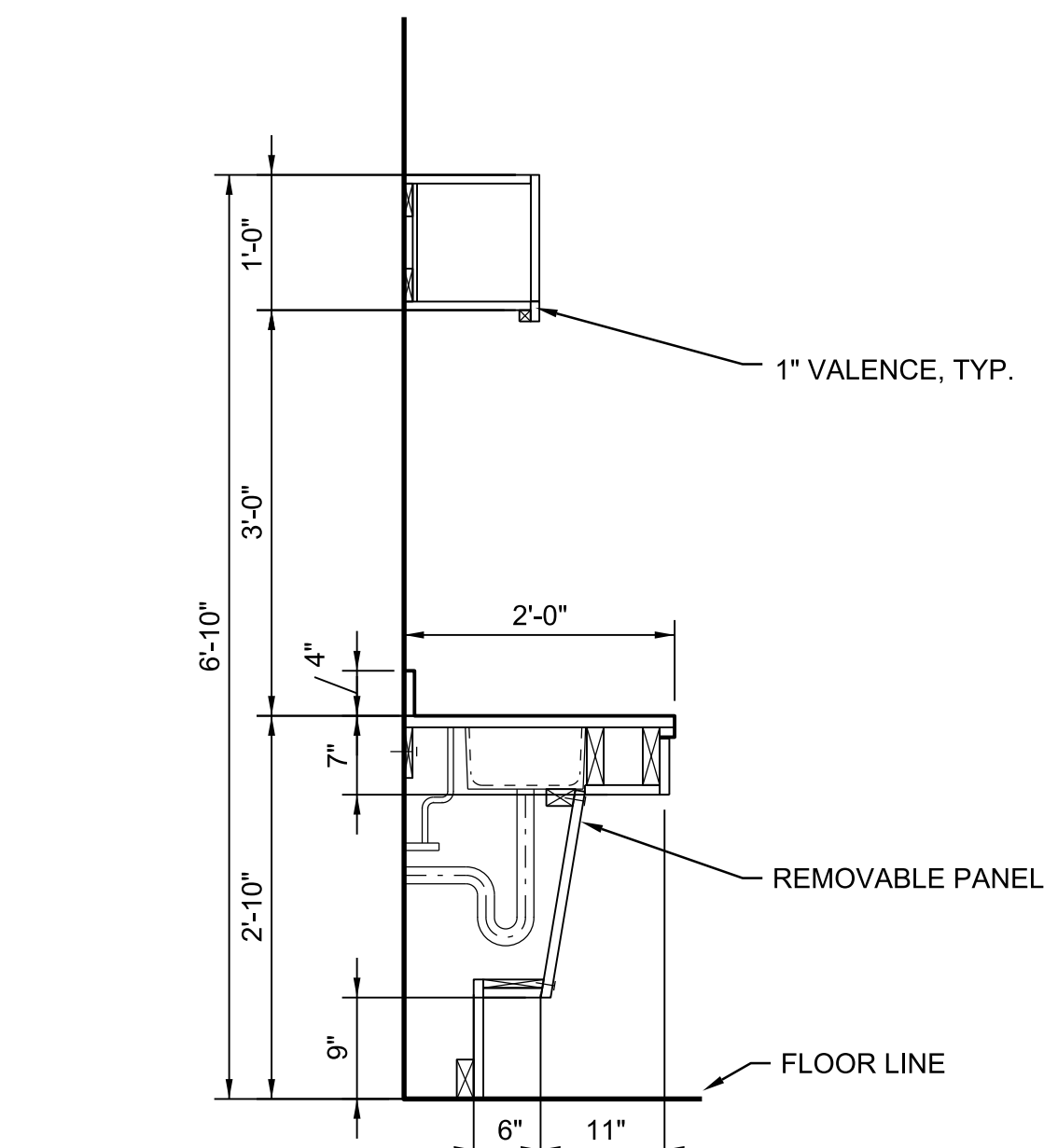
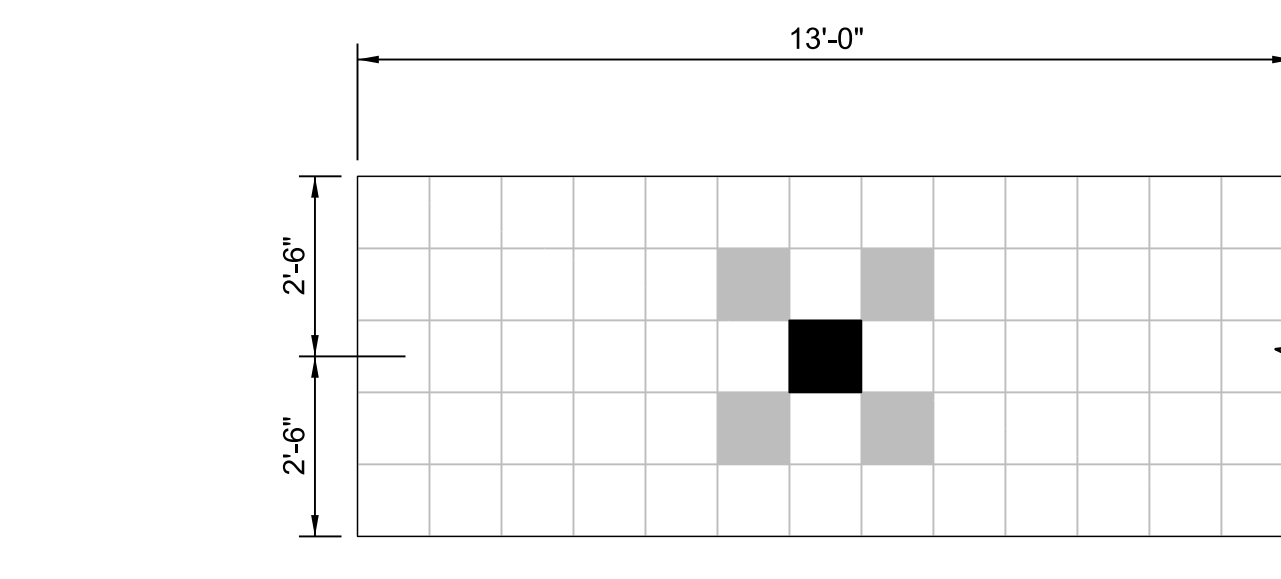
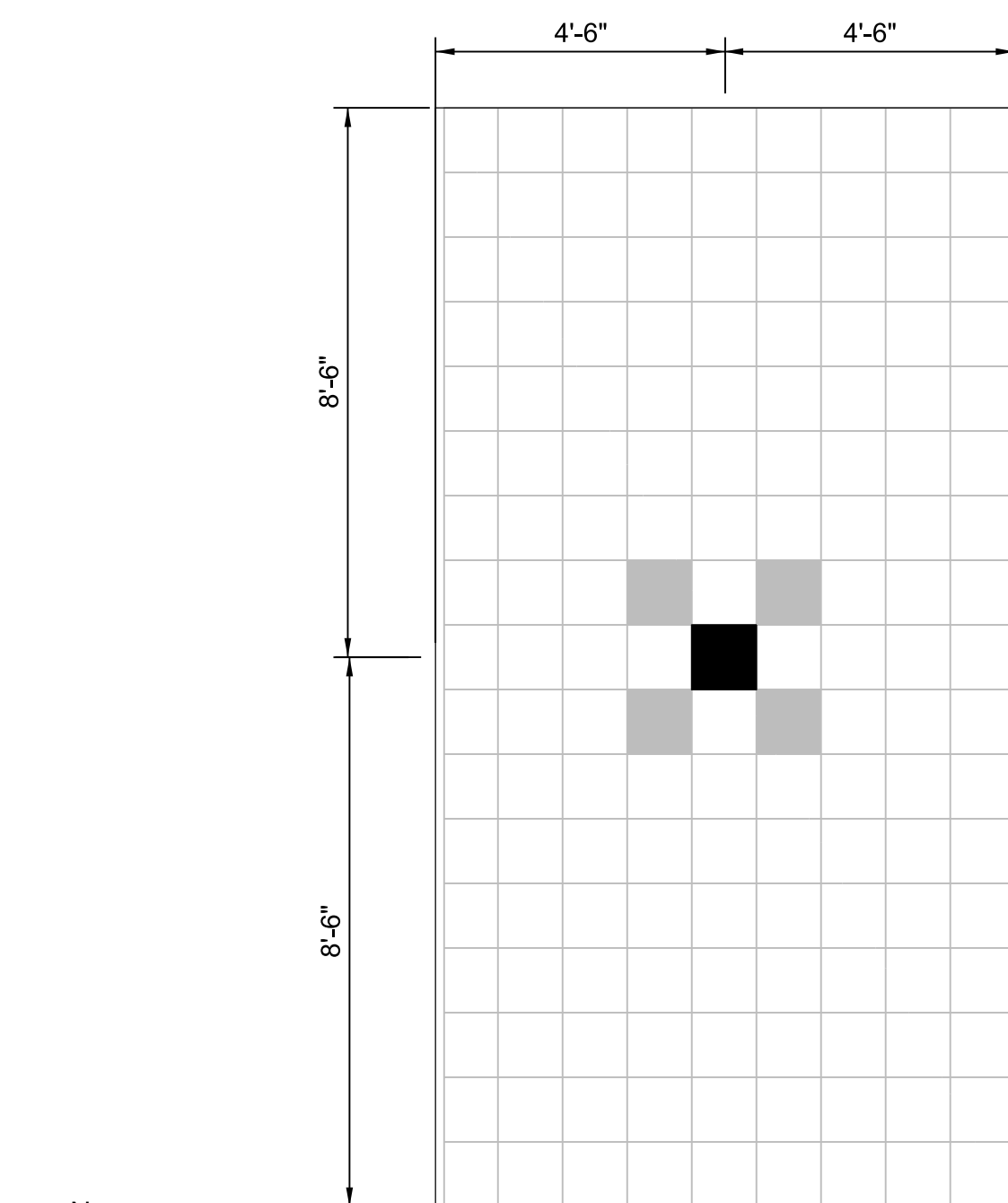
Jacobs

DEWATERING AND CONTROL BUILDING
ARCHITECTURAL
SECOND FLOOR
ENLARGED PLANS

	
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DATE	MAY 2021
PROJ	D3226100
DWG	20-A-4002
SHEET	107 of 270

CONFIRMED DOCUMENTS

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- ## GENERAL NOTES

1. FOR ARCHITECTURAL LEGEND AND ADA REQUIREMENTS AND MOUNTING HEIGHTS, SEE 01-G SERIES DRAWINGS.
2. SEE SPECIFICATIONS SECTION 06 41 00 FOR ARCHITECTURAL MILLWORK
3. FOR TOILET ACCESSORIES SEE SPECIFICATION 10 28 00.
4. ALL CASEWORK, FLOORING AND WALL TILES TO MATCH PARK FORREST OFFICE COLORS.
5. FOR FINISH SCHEDULE SEE SHEET 20-A-6004.
6. ADD VCT PURINA PATTERN IN TRAINING ROOM 20-112, OFFICE 20-203, CONTROL ROOM 20-207 AND BREAKROOM 20-208. SPACE PATTERN AS DIRECTED BY OWNER.

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

100 T CEDAR STREET, SUITE 200
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

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DEWATERING FACILITY & OTHER IM
MOBILE AREA WATER & SEWER SY
MOBILE, ALABAMA

Jacobs.

ARCHITECTURAL

DEWATERING AND CONTROL BUILDING SECOND FLOOR ENLARGED PLANS AND ELEVATIONS

DEWATERING AND CONTROL BUILDING SECOND FLOOR ENLARGED PLANS AND ELEVATIONS

DEWATERING AND CONTROL BUILDING SECOND FLOOR ENLARGED PLANS AND ELEVATIONS

VERIFY SCALE

BAR IS ONE INCH ON
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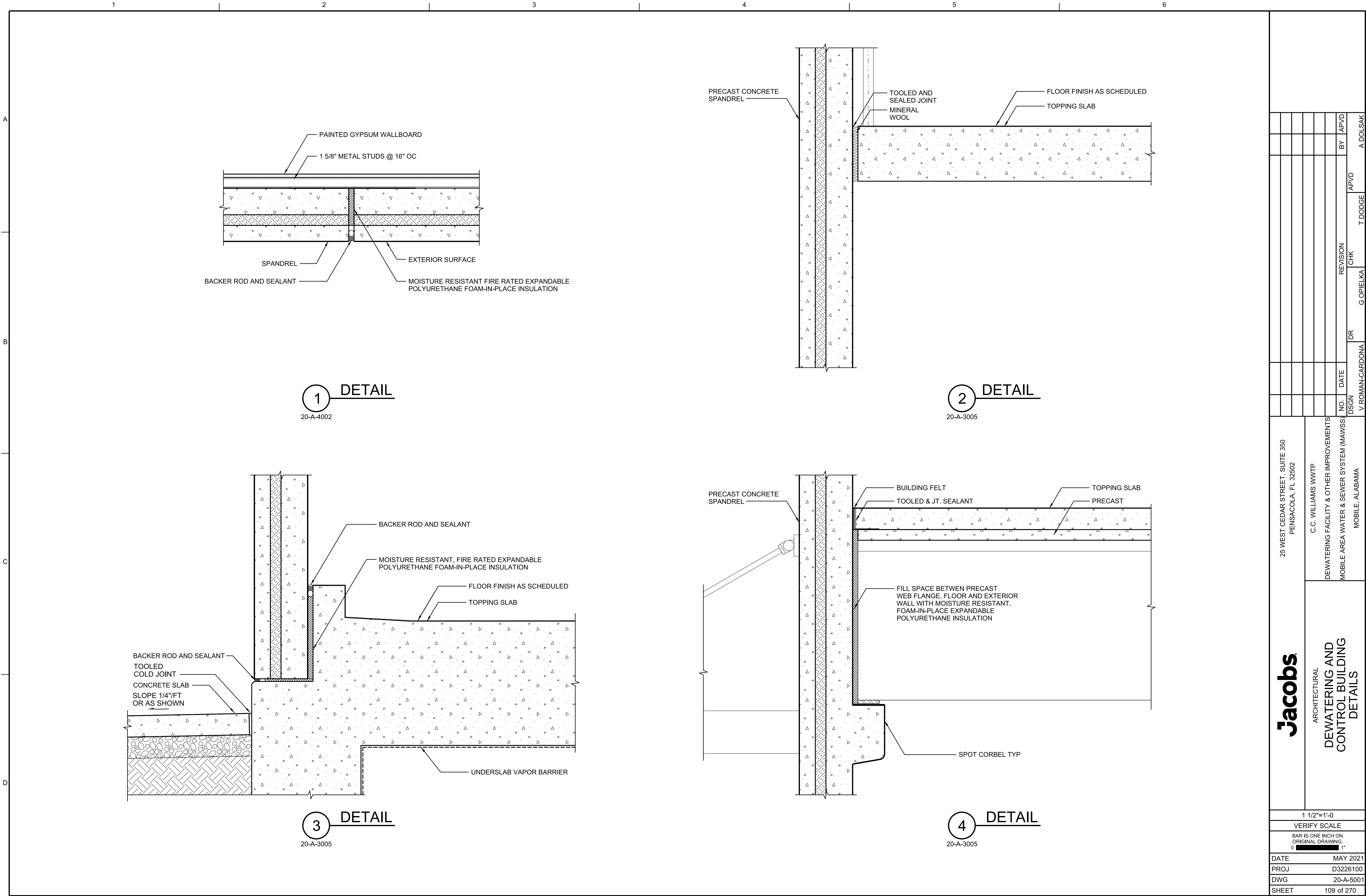
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SHEET	108 of 270
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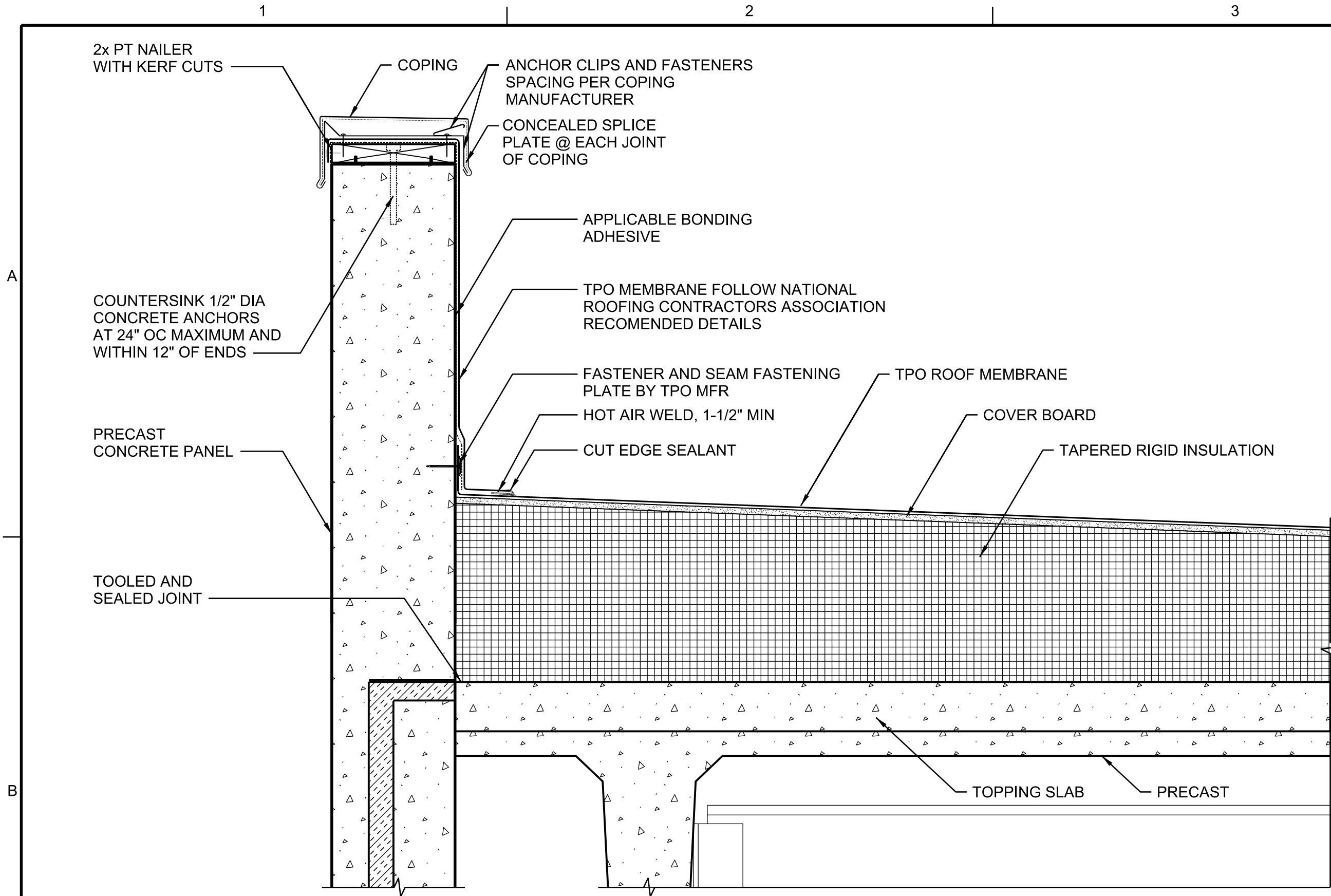
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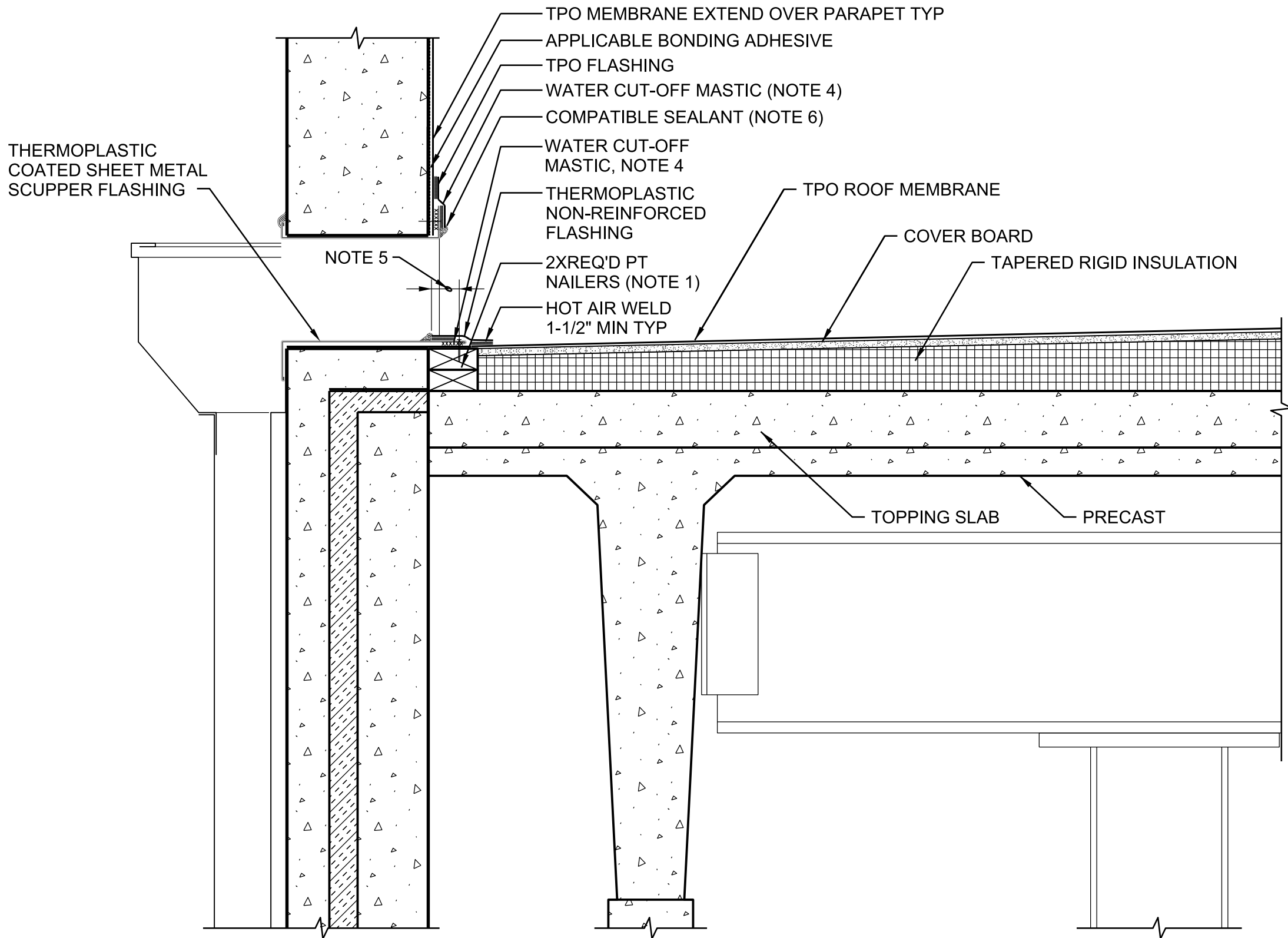
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25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS) MOBILE, ALABAMA
<div>Jacobs</div> <div>ARCHITECTURAL</div> <div>DEWATERING AND CONTROL BUILDING DETAILS</div>		
1 1/2"=1'-0		
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DATE	MAY 2021	
PROJ	D3226100	
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SHEET	109 of 270	



1 DETAIL
20-A-3005



2 DETAIL
20-A-3005

SHEET KEYNOTES

- WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
- INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
- METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS.
- WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
- SCUPPER FLANGES MUST BE TOTALLY COVERED BY NON-REINFORCED FLASHING WITH MINIMUM 2" COVERAGE PAST NAIL HEAD.
- SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

Jacobs

ARCHITECTURAL
DEWATERING AND
CONTROL BUILDING
DETAILS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

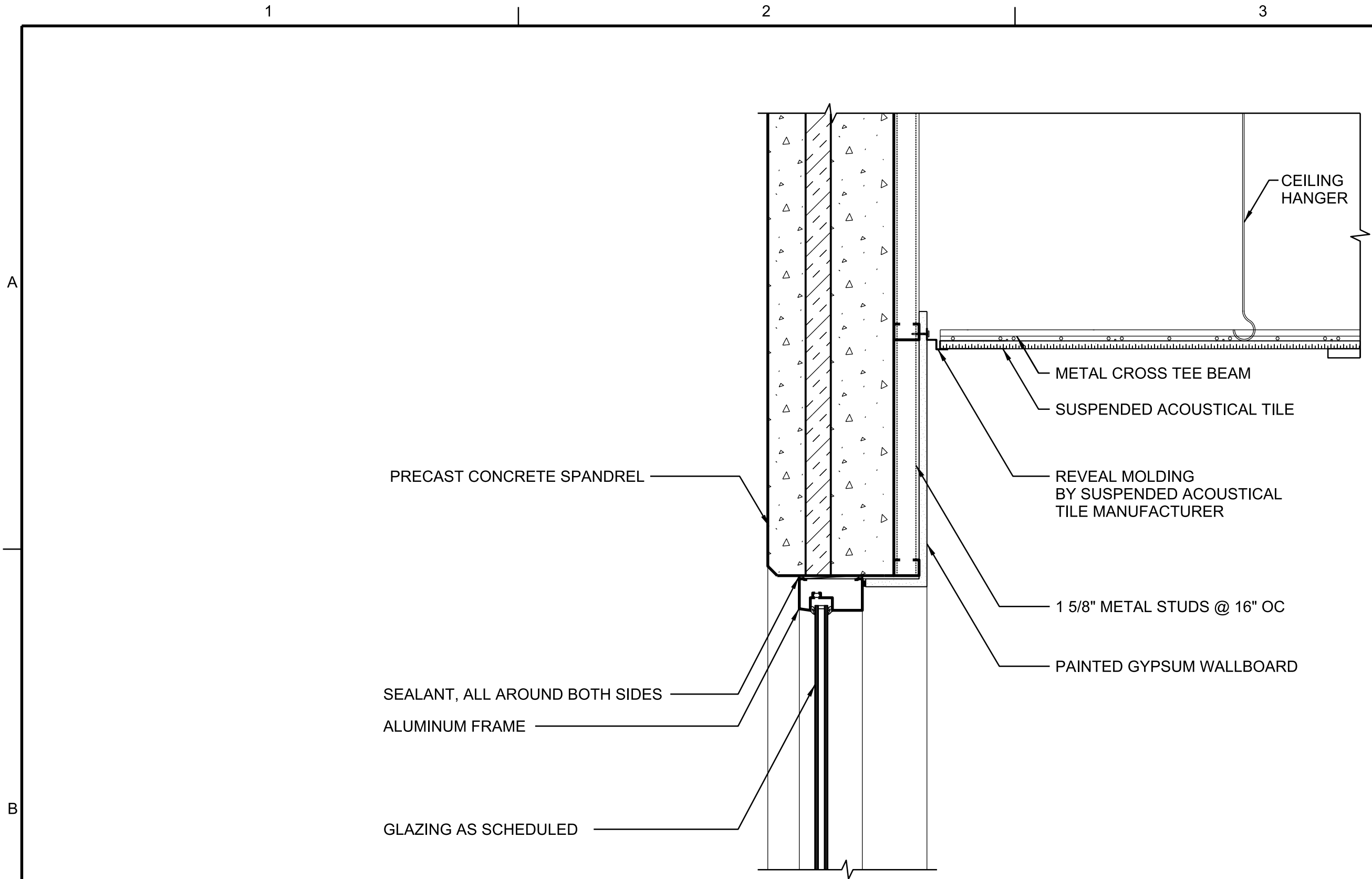
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SHEET	110 of 270

CONFORMED DOCUMENTS

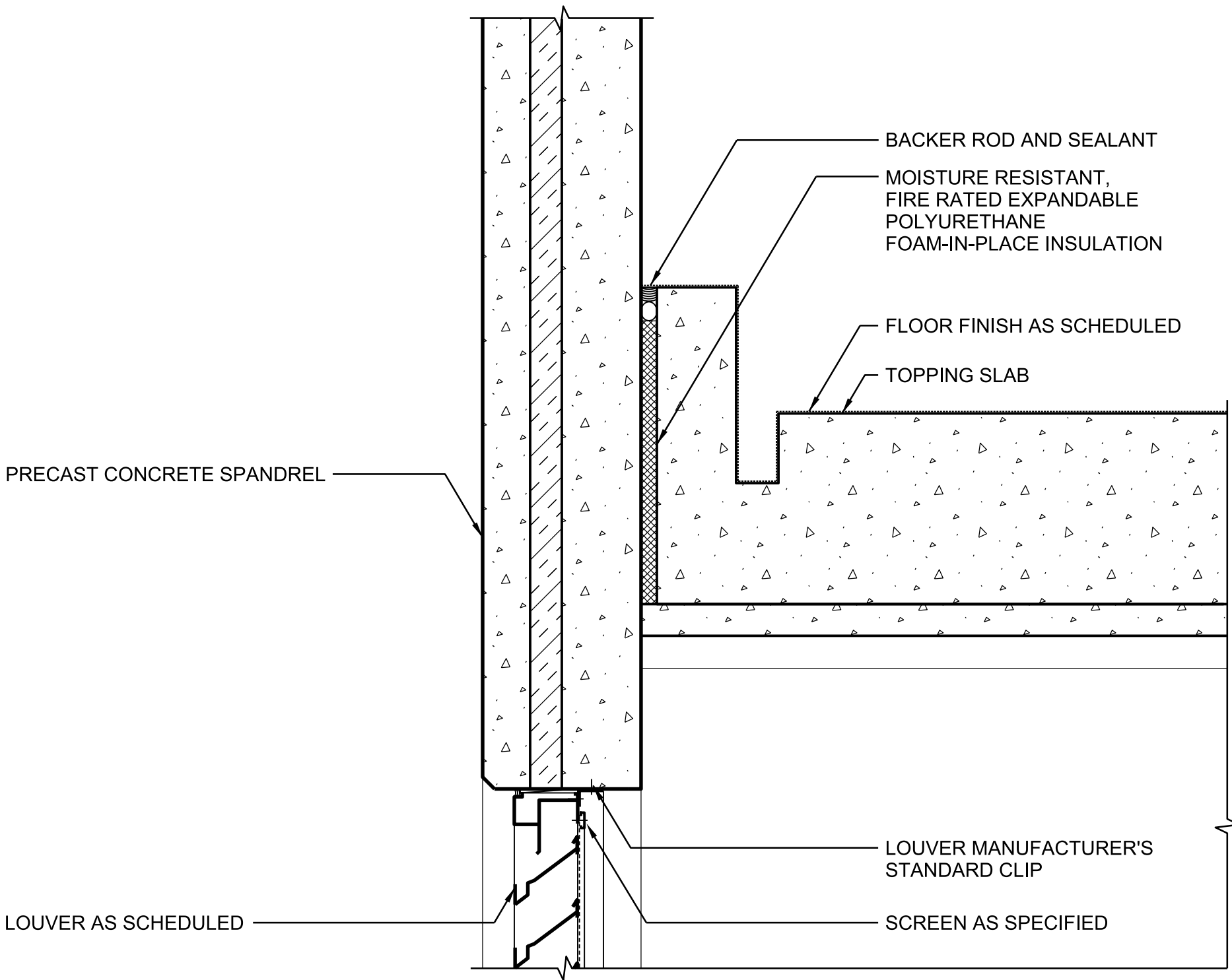
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BY AP/D A DOLSAK

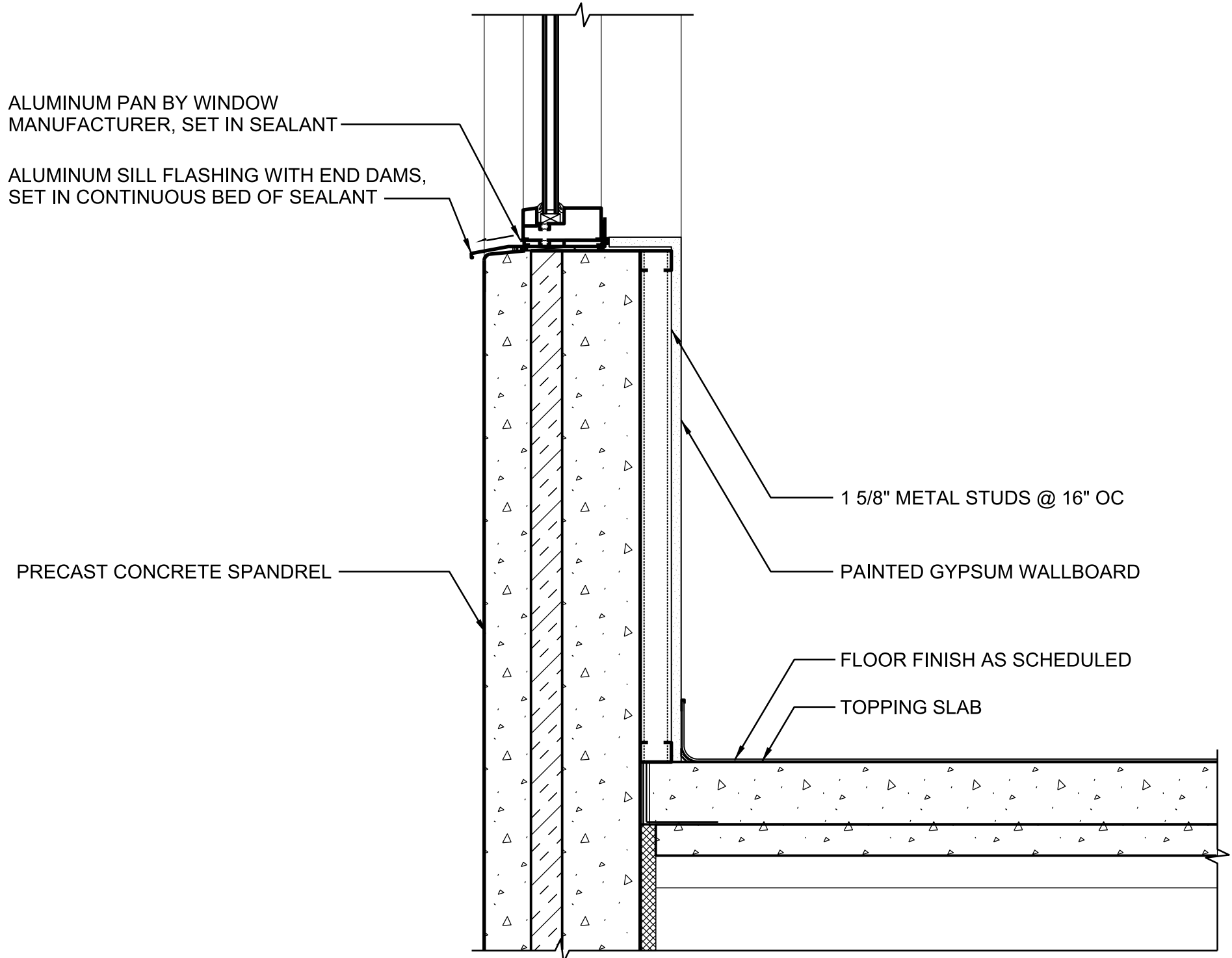
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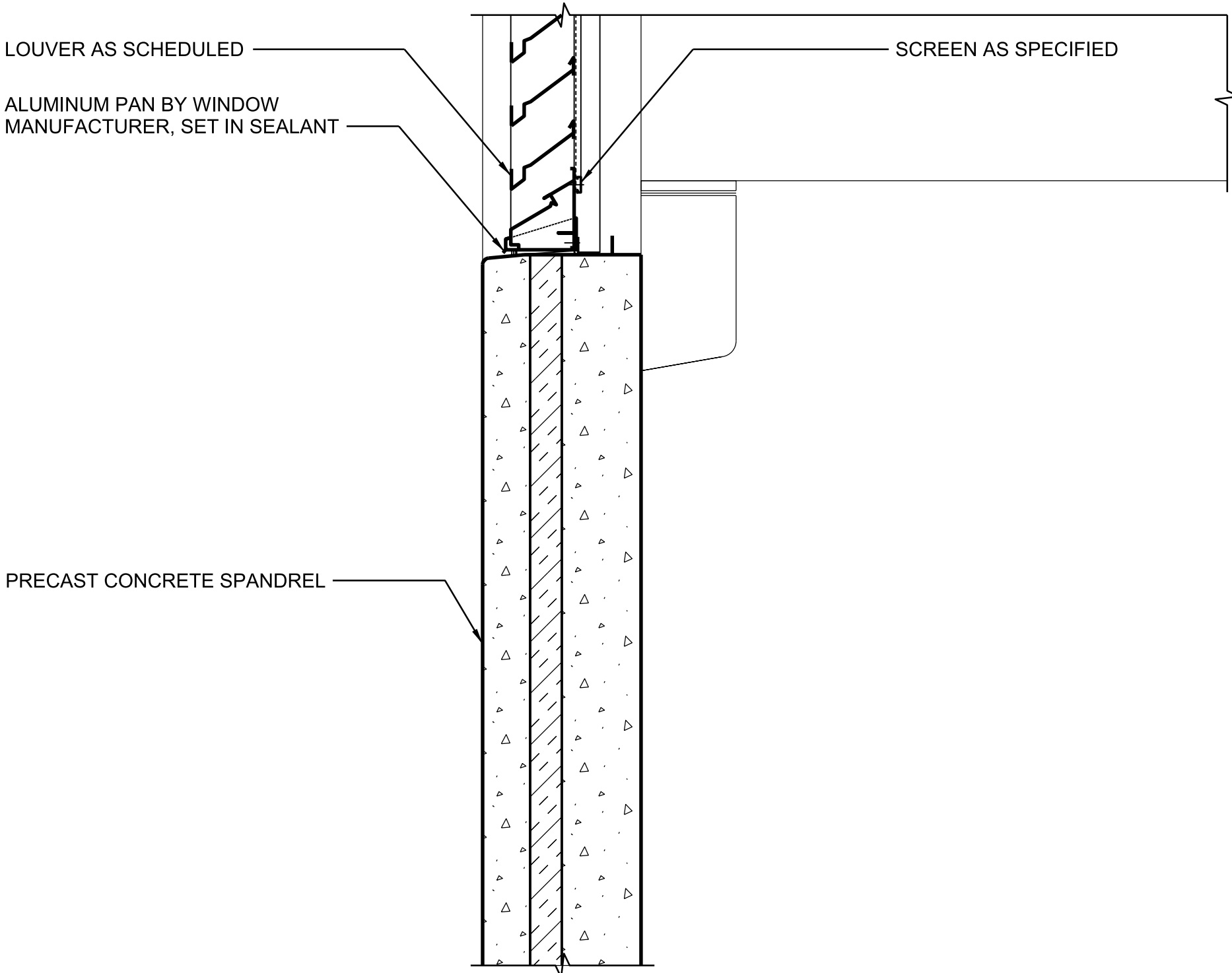
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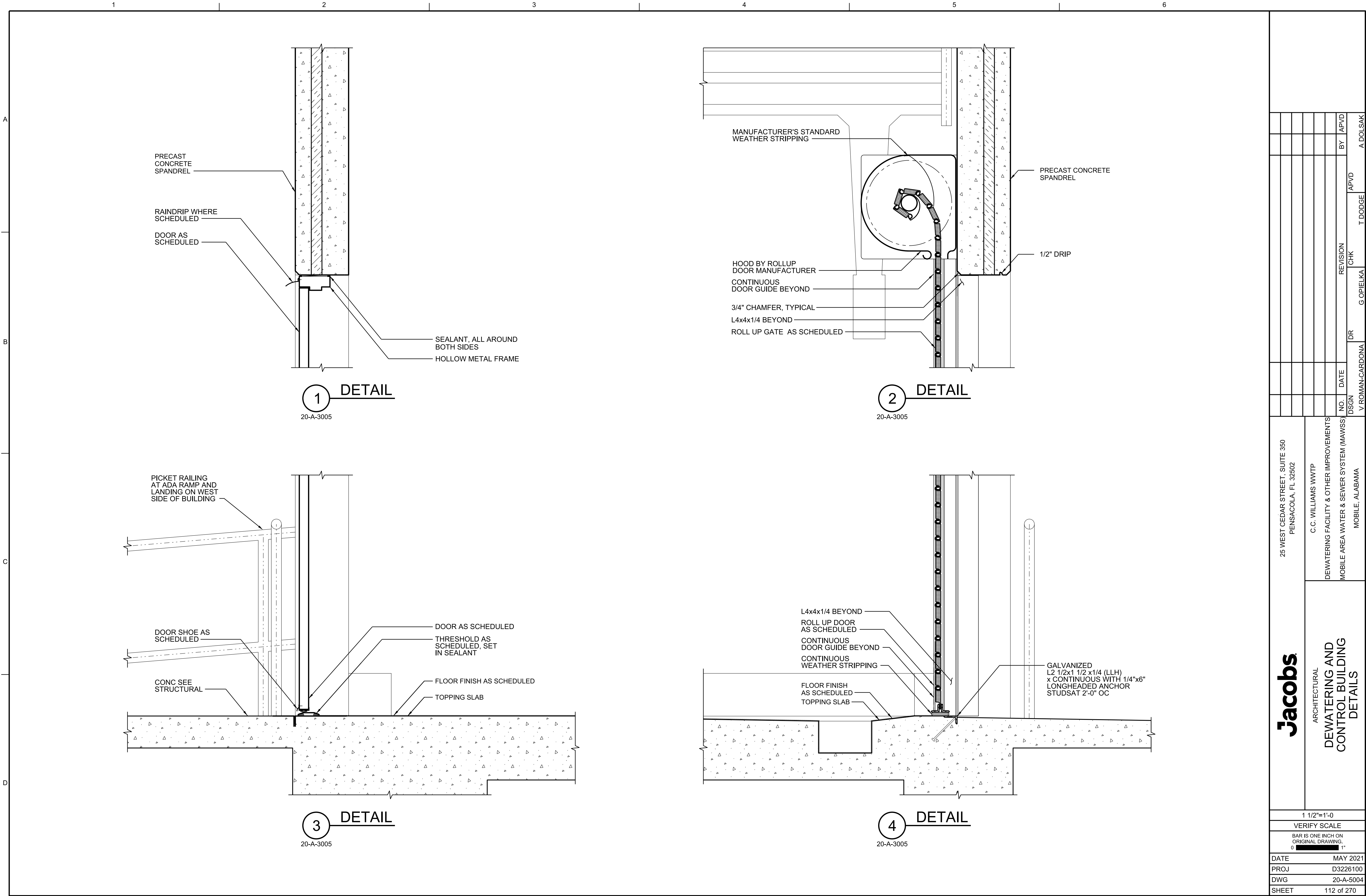



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<div>Jacobs</div> <div>ARCHITECTURAL</div> <div>DEWATERING AND CONTROL BUILDING DETAILS</div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS) MOBILE, ALABAMA		V ROMAN-CARDONA DR		G OPIELKA CHK		T DODGE APVD		A DOLSAK BY APVD			
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<div>JACOBS</div> <div>ARCHITECTURAL</div> <div>DEWATERING AND CONTROL BUILDING DETAILS</div>	<div>C.C. WILLIAMS WWTP</div> <div>DEWATERING FACILITY & OTHER IMPROVEMENTS</div> <div>MOBILE AREA WATER & SEWER SYSTEM (MAVSS)</div> <div>MOBILE, ALABAMA</div>	1 1/2"=1'-0	
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SHEET	112 of 270		

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS) MOBILE, ALABAMA	NO.	DATE	REVISION			BY	APVD
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WINDOW AND LOUVER SCHEDULE

ABBREVIATIONS:

AL	ALUMINUM
A&G	ALUMINUM & GLASS
AG	LAMINATED ACOUSTICAL GLASS
AS	AS SELECTED
CLSR	CLOSER
COLOR	COLOR
CONSTR	CONSTRUCTION
FACTY	FACTORY
FC-CT	TEMPERED GLASS
FNSH	FINISH
FRP	FIBERGLASS REINFORCED PLASTIC
GS	GALVANIZED STEEL
HG	HALF GLASS

HM
HS
KEY
K-PL
LIG
MATL
MAR
MET
N/A
OHR
P-P
PS
SIM

HOLLOW METAL
HORIZONTAL SLIDING
KEY GROUP
KICK PLATE
LAMINATED INSULATED GLASS
MATERIAL
MARBLE SADDLE
METAL
NOT APPLICABLE
OVERHEAD COILING DOOR
PUSH PULL
PAINT SYSTEM
SIMILAR

SST
STL
TSHD
TBS
WD

STAINLESS STEEL
STEEL
THRESHOLD
TO BE SELECTED
WOOD

NOTES:

1. THIS SHEET IS FOR WINDOW AND LOUVER SCHEDULE AND WINDOW AND LOUVER TYPES.
2. FOR WINDOW AND LOUVER DETAILS, SEE DRAWING 20-A-5003 OR STANDARD DETAILS.
3. NUMBERS IN "FNsh" COLUMN REFER TO PAINT SYSTEMS IN SPECIFICATION SECTION 09 90 00, PAINTING AND PROTECTIVE COATINGS.
4. CODES IN "COL" COLUMN REFER TO THE COLOR LIST ON DRAWINGS.
5. FOR GLASS TYPES, SEE SPECIFICATION 08 80 00, GLAZING.
6. FOR ALUMINUM FRAMED STOREFRONT SYSTEMS SEE SECTION 08 41 13B.
7. DESIGN WIND PRESSURES SHOWN IN COMPONENTS AND CLADDING WIND PRESSURE TABLE ON DRAWING 01-G-0006.
8. FOR WINDOW AND LOUVER DETAILS SEE SHEET 20-A-5003.

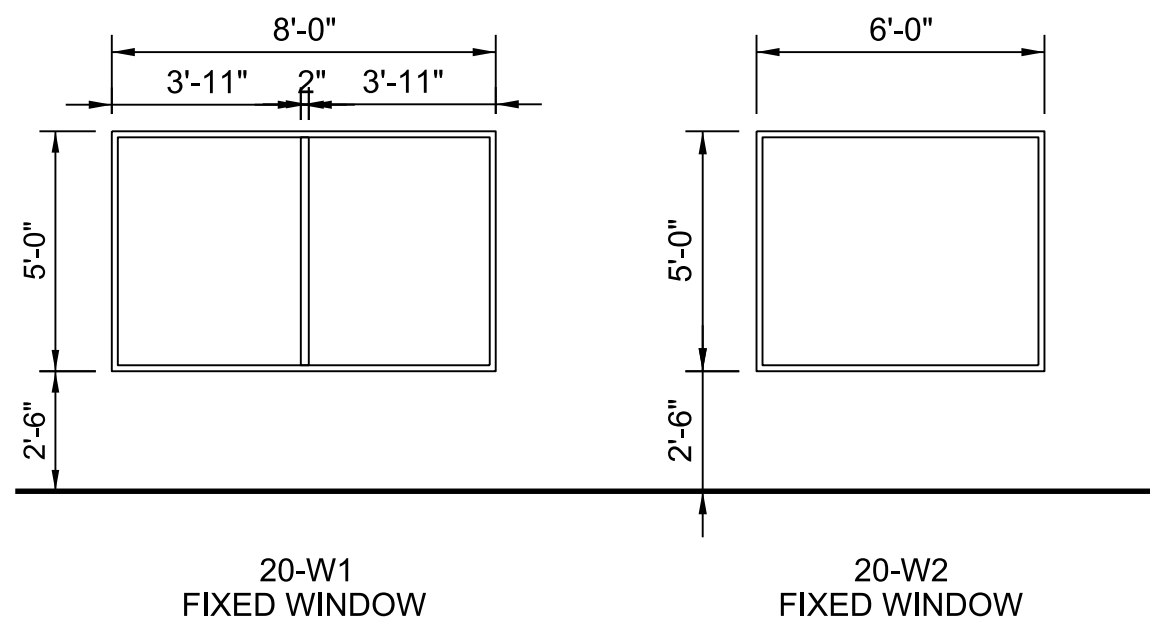
WINDOW SCHEDULE

WINDOW		FRAME							DETAILS				BLINDS			MISC/REMARKS
NO	TYPE	SIZE														
		WIDTH	HEIGHT	GLASS	COL	MATL	FINISH	COL	HEAD	JAMB	SILL	MISC.	YES/NO	MATL	COL	
20-W1	FIXED WINDOW	8'-0"	5'-0"	LIG	TBS	AL	FACTY	TBS	DETAIL 1 20-A-5003	DETAIL 1 20-A-5003	DETAIL 3 20-A-5003	--	--	--	--	
20-W2	FIXED WINDOW	6'-0"	5'-0"	LIG	TBS	AL	FACTY	TBS	DETAIL 1 20-A-5003	DETAIL 1 20-A-5003	DETAIL 3 20-A-5003					

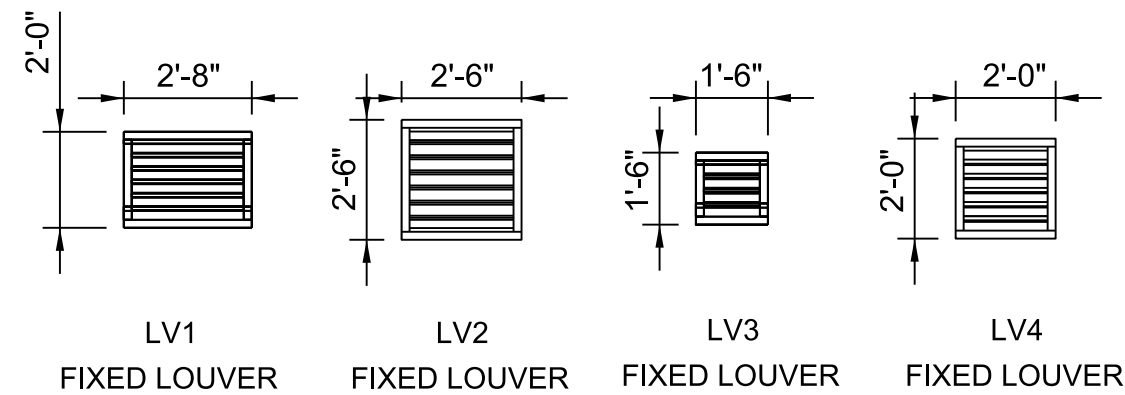
LOUVER SCHEDULE

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WINDOW TYPES



LOUVER TYPES



Jacobs.

ARCHITECTURAL

DEWATERING AND CONTROL BUILDING WINDOW AND LOUVER SCHEDULE

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

MOBILE: ALABAMA

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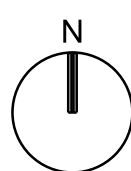
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SHEET 115 of 270

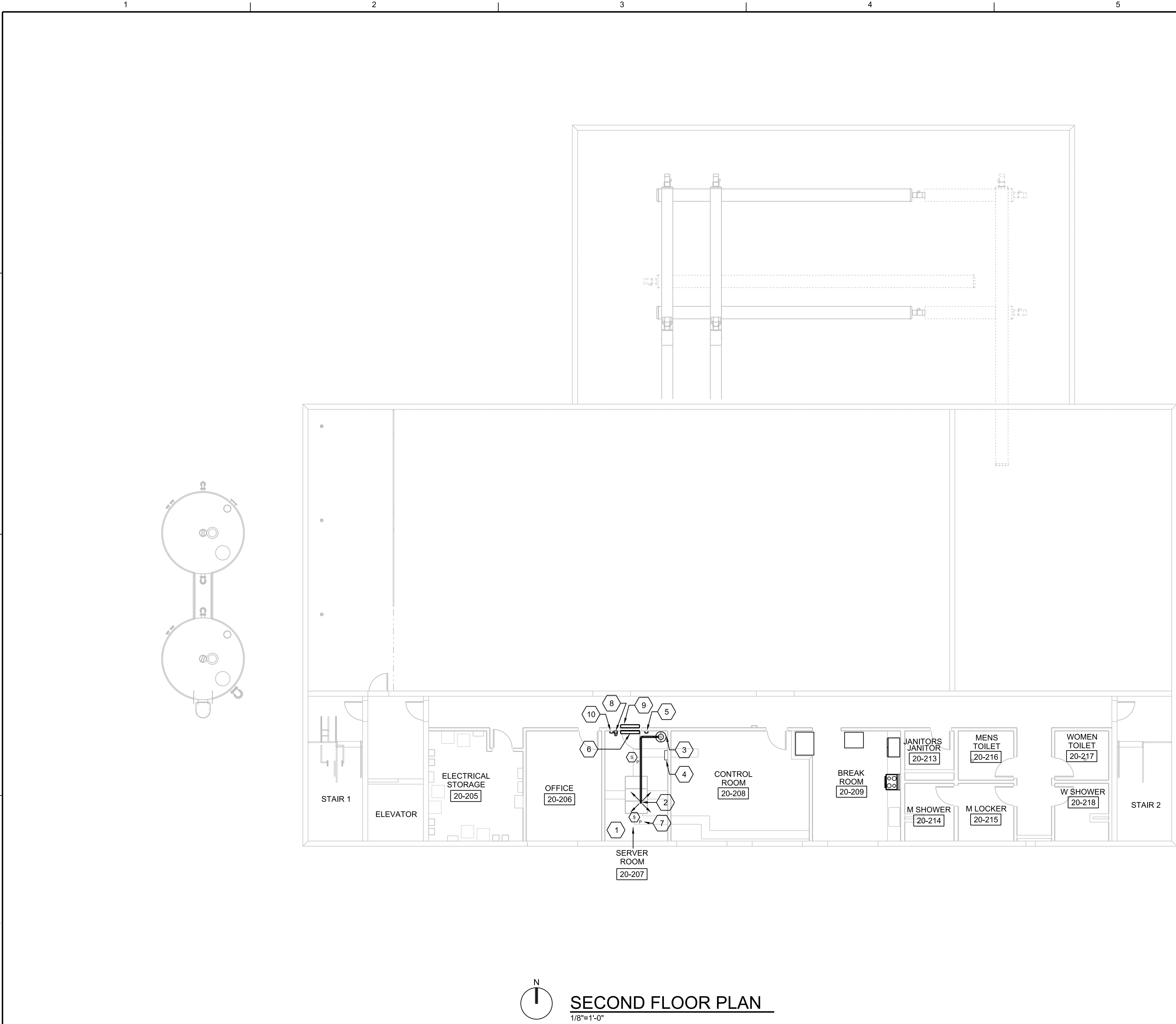
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1/8"=1'-0'

SHEET 117 of 270

	B IRMEN	B SHANNON	B PEABODY
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GENERAL SHEET NOTES

- REFER TO FIRE PROTECTION LEGEND FOR GENERAL NOTES, ABBREVIATIONS AND SYMBOL LEGEND.
- WHERE FM 200 SYSTEM IS INSTALLED, SEAL PENETRATIONS AND CLOSE DAMPERS PER NFPA 2001 TO ACHIEVE TOTAL FLOODING.
- NO AUTOMATIC FIRE SPRINKLER SYSTEM REQUIRED PER IBC (REFER TO 20-A-2001)
- PROVIDE FM 200 SYSTEMS IN ROOMS AS SHOWN. LOCATE PANELS AND CYLINDERS IN THE ROOMS THEY PROTECT.

SHEET KEYNOTES

- ROOM PROTECTED BY FM-200
- FM-200 4 WAY NOZZEL.
- FM-200 CYLINDER.
- FM-200 CONTROL PANEL (FARP).
- FM-200 MAINTENANCE BYPASS SWITCH.
- PROVIDE ILLUMINATED SIGN WITH EMERGENCY BATTERY BACKUP "EVACUATE NOW - GAS DISCHARGE" AT THE INTERIOR EGRESS DOORS. SIGN TO BE VISIBLE AT ALL TIMES AND ACTIVATED BY A PRESSURE SWITCH ON THE SYSTEM DISCHARGE PIPING.
- SMOKE DETECTORS FOR RELEASE OF FM200 SYSTEM.
- ABORT SWITCH TO STOP ACTIVATION OF FM-200 SYSTEM.
- PROVIDE ILLUMINATED SIGN WITH EMERGENCY BATTERYBACKUP "DO NOT ENTER - GAS DISCHARGE" ON EXTERIOR ABOVE THE DOOR TO PROTECTED ROOM. SIGN IS TO BE VISIBLE AT ALL TIMES AND ACTIVATED BY A PRESSURE SWITCH ON THE SYSTEM DISCHARGE PIPING.
- MANUAL DISCHARGE OF THE FM-200 SYSTEM.

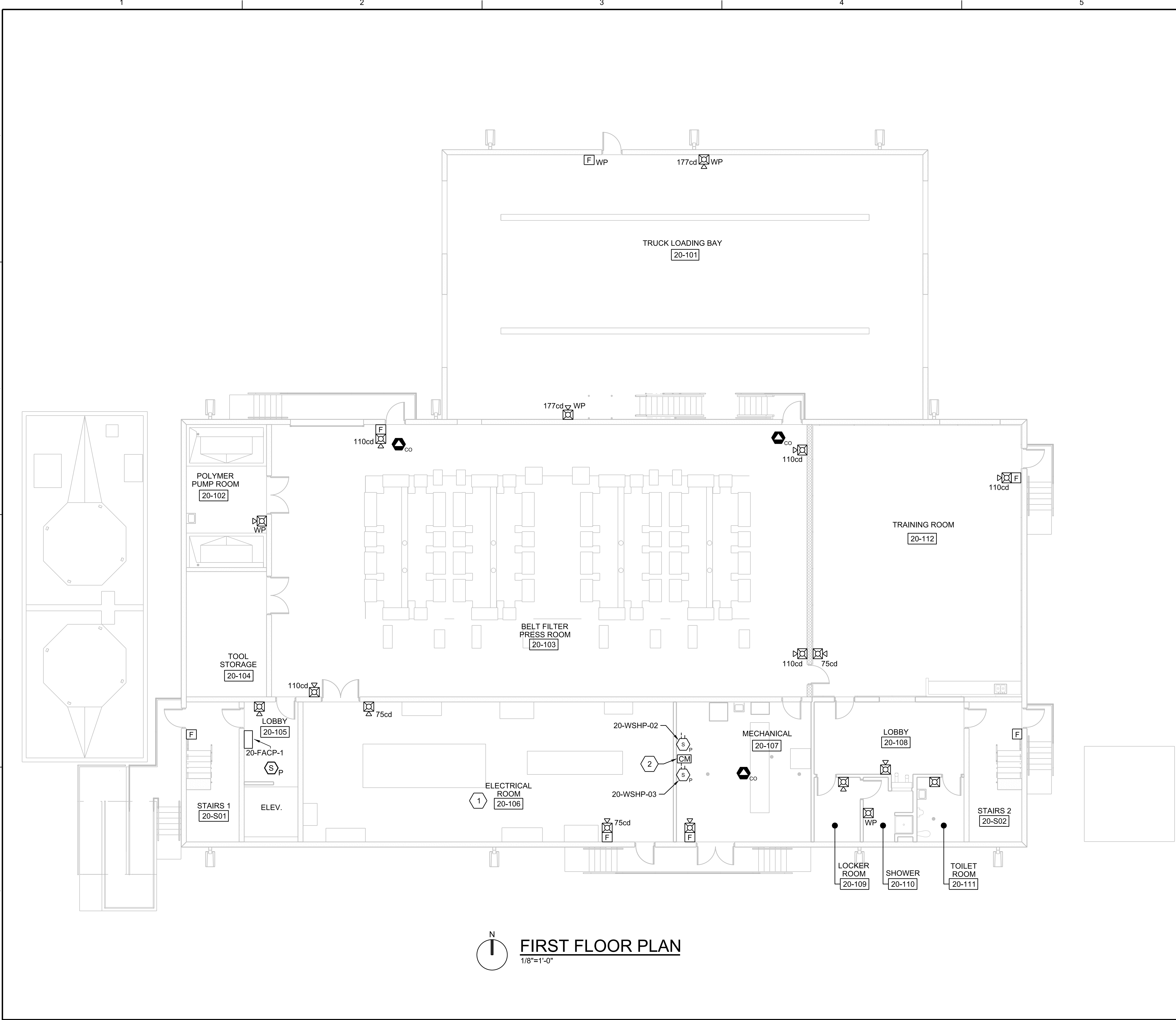
25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

Jacobs
FIRE SUPPRESSION
DEWATERING AND
CONTROL BUILDING
SECOND FLOOR PLAN

1/8"=1'-0"	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	20-F-2002
SHEET	118 of 270

CONFORMED DOCUMENTS



FIRST FLOOR PLAN

1/8"=1'-0"

GENERAL SHEET NOTES

A. SEE SHEETS 01-G-0014 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

SHEET KEYNOTES

- 1. AREA PROTECTED BY FM-200, REFER TO DRAWING 20-F-2001.
- 2. CONTROL MODULE ACTIVATION WILL CLOSE HVAC AIR DAMPER ON FM-200 ACTIVATION.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

Jacobs
FIRE ALARM
**DEWATERING AND
CONTROL BUILDING
FIRST FLOOR PLAN**

VERIFY SCALE

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ORIGINAL DRAWING.
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DATE MAY 2021

PROJ D3226100

DWG 20-FA-2001

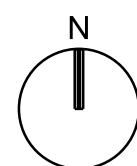
SHEET 119 of 270

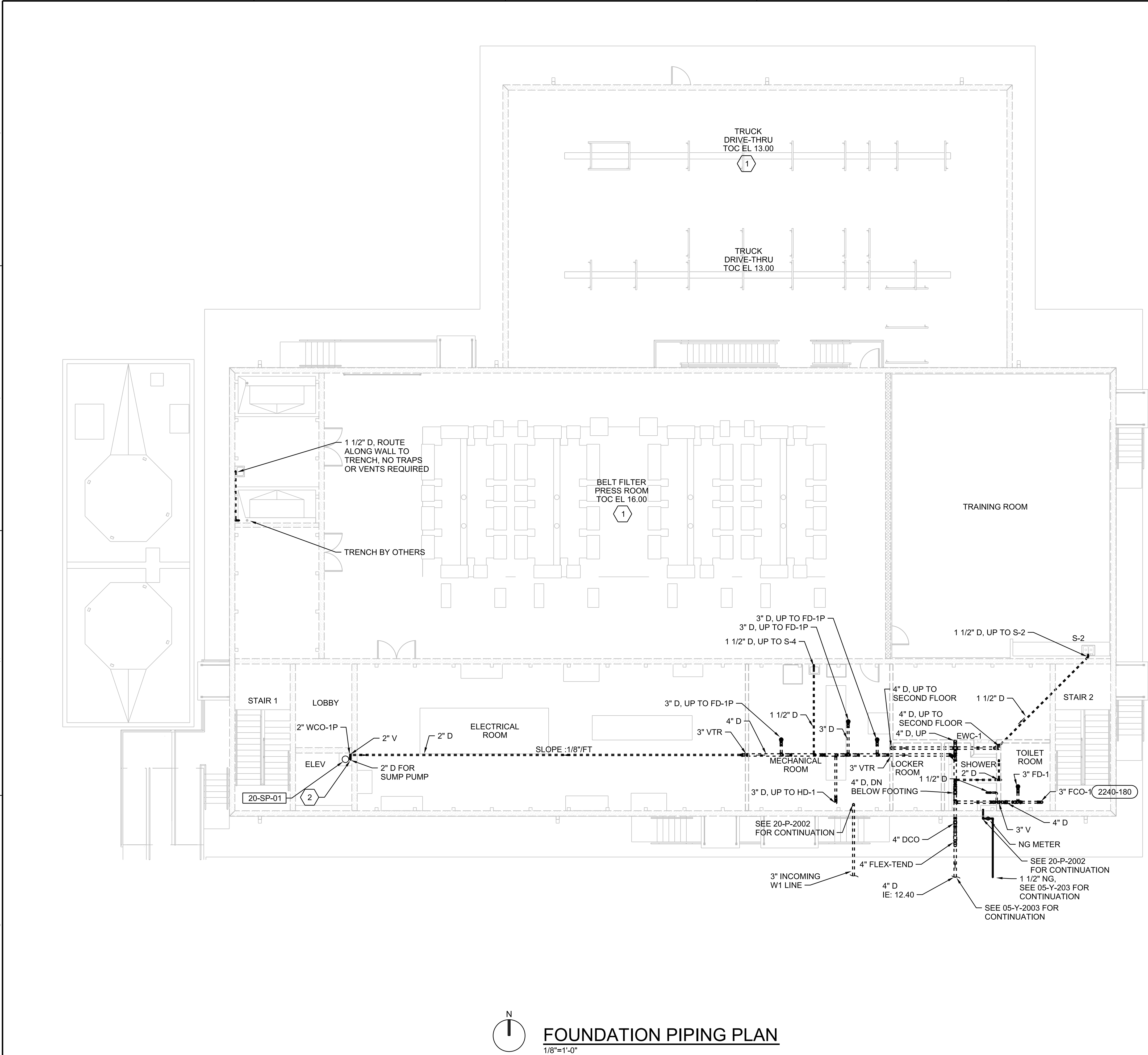
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J PEUSER
DGN
NO. DATE
DR B ALEXANDER
CHK
REVISION
BY APVD
B PEABODY

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$$1/8"=1'-0"$$



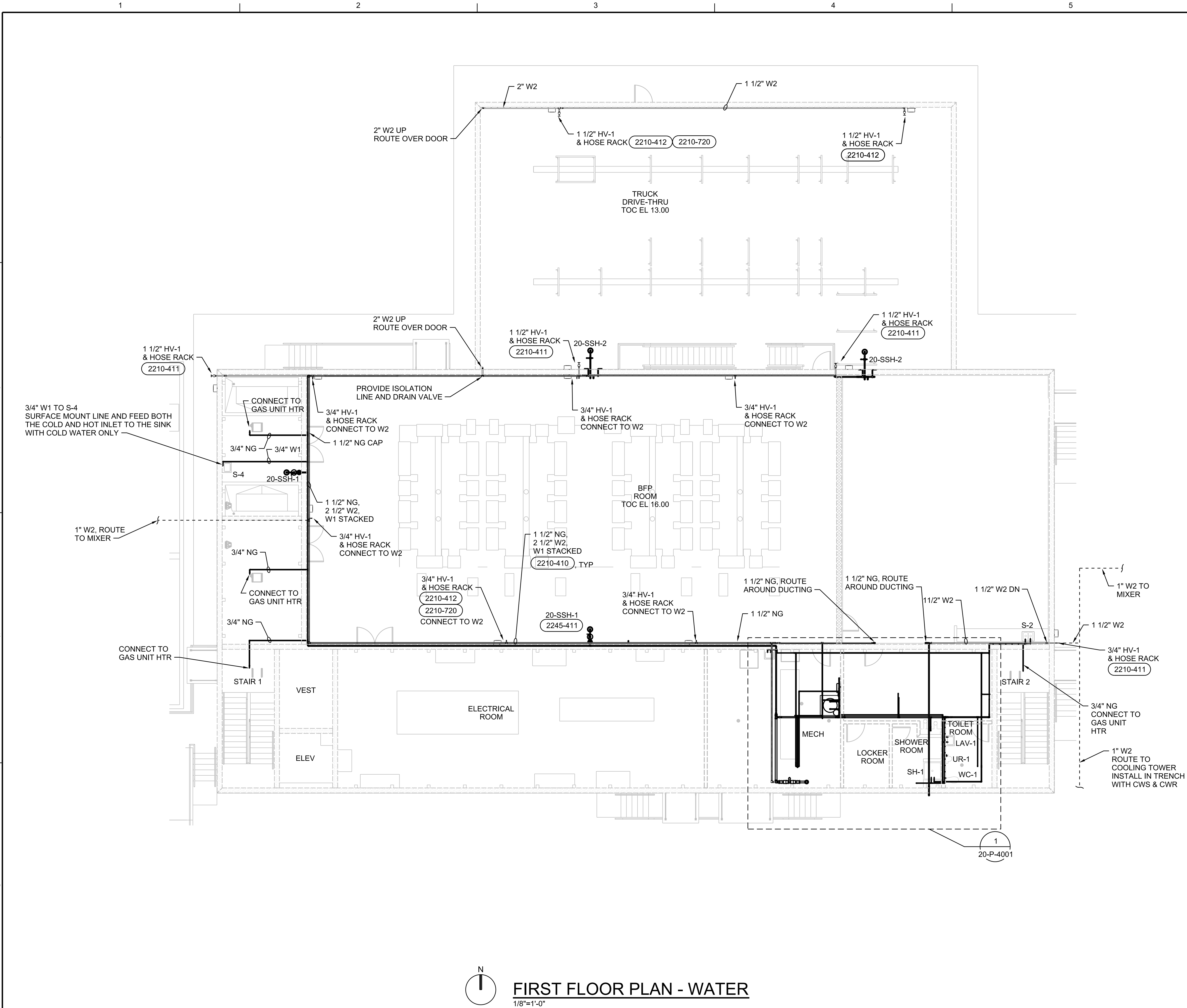
GENERAL SHEET NOTES

- 1. SEE PLUMBING LEGEND SHEET FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. SEE 50-P-6001 FOR EQUIPMENT SCHEDULES.
- 3. ALL DASHED LINES INDICATE UNDERSLAB PIPING.
- 4. SLOPE ALL DRAINS AT 1/4" SLOPE UNLESS NOTED OTHERWISE.
- 5. PROVIDE BARRIER TRAP SEAL CONFORMING TO ASSE 10/2 FOR ALL FLOOR DRAINS.
- 6. REFER TO SPEICIFICATIONS SECTION 40 27 00 PROCESS PIPING - GENERAL FOR PIPING MATERIALS THAT ARE TO BE USED.

SHEET KEYNOTES

- 1. SEE PROCESS DRAWINGS FOR RELATED DRAINS.
- 2. INSTALL SUMP PUMP WITH UNION/COUPLING FOR PUMP REMOVAL. INSTALL CHECK VALVE IN DISCHARGE PIPE. MOUNT CONTROL PANEL ON WALL.

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS)	
JACOBS		PLUMBING DEWATERING AND CONTROL BUILDING FOUNDATION PIPING PLAN	
1/8"=1'-0"		VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE MAY 2021	
PROJECT D3226100		PROJ D3226100	
DWG 20-P-2001		SHEET 122 of 270	



GENERAL SHEET NOTES

- 1. SEE PLUMBING LEGEND SHEET FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. SEE 50-P-6001 FOR EQUIPMENT SCHEDULES.
- 3. REFER TO SPECIFICATION SECTION 40 27 00 PROCESS PIPING - GENERAL FOR PIPING MATERIALS THAT ARE TO BE USED.

Jacobs

PLUMBING

DEWATERING AND CONTROL BUILDING
FIRST FLOOR PLAN
WATER

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

1/8"=1'-0"

VERIFY SCALE

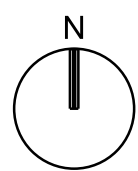
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PROJ D3226100

DWG 20-P-2002

SHEET 123 of 270

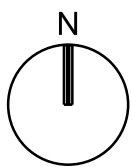
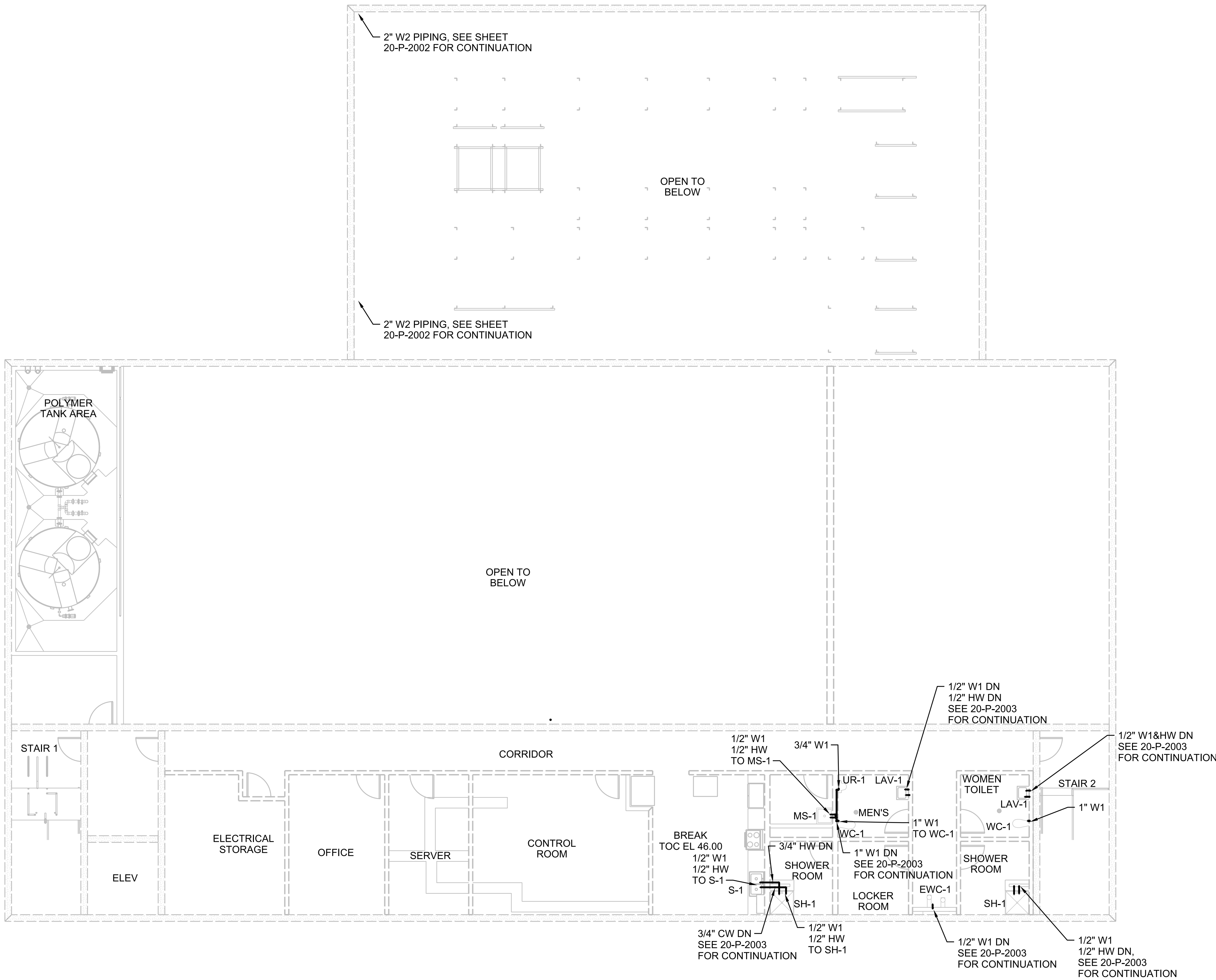

$$\overline{1/8'' = 1'-0''}$$

- SHEET 124 of 270

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GENERAL SHEET NOTES

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2. SEE 50-P-6001 FOR EQUIPMENT SCHEDULES.
3. REFER TO SPECIFICATION SECTION 40 27 00 PROCESS PIPING - GENERAL FOR PIPING MATERIALS THAT ARE TO BE USED.



SECOND FLOOR PLAN - WATER

$$1/8'' = 1' - 0''$$

Jacobs

PLUMBING

DEWATERING AND CONTROL BUILDING SECOND FLOOR PLAN WATER

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA
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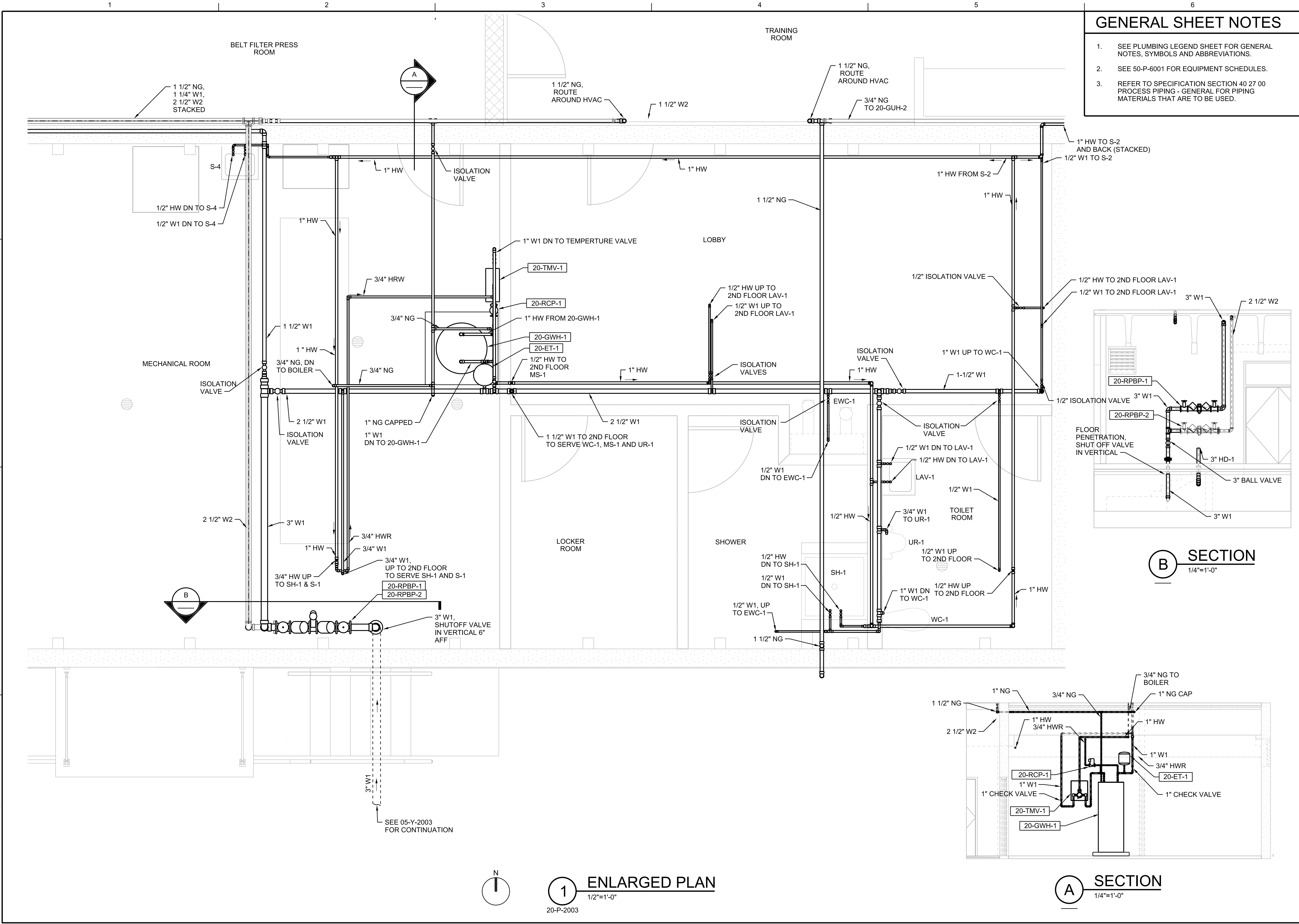
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PROJ	D3226100
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DWG 20-P-2004

SHEET 125 of 270



GENERAL SHEET NOTES

- 1. SEE PLUMBING LEGEND SHEET FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. SEE 50-P-6001 FOR EQUIPMENT SCHEDULES.
- 3. REFER TO SPECIFICATION SECTION 40 27 00 PROCESS PIPING - GENERAL FOR PIPING MATERIALS THAT ARE TO BE USED.

<div>Jacobs</div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)		MOBILE, ALABAMA															
<div>PLUMBING</div> <div>DEWATERING AND CONTROL BUILDING ENLARGED PLAN AND SECTION</div>		1/8"=1'-0		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"		DATE		MAY 2021		PROJ		D3226100		DWG		20-P-4001		SHEET		126 of 270	

1

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3

4

5

6

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG NO.	DESCRIPTION	WASTE (IN.) MIN.	VENT (IN.) MIN.	TRAP (IN.) MIN.	W1 (IN.) MIN.	HW (IN.) MIN.	W2 (IN.) MIN.	NOTES
CO-1	CLEANOUT, EXTERIOR	4	N/A	N/A	N/A	N/A	N/A	1
ETP-1	ELECTRIC TRAP PRIMER	N/A	N/A	N/A	3/4	N/A	N/A	1
EW-1	ELEC WATER COOLER	1 1/2	1 1/2	1 1/2	1/2	N/A	N/A	1
EW-2	ELEC WATER COOLER	1 1/2	1 1/2	1 1/2	1/2	N/A	N/A	1
FCO-1	FLOOR CLEANOUT, INTERIOR	4	N/A	N/A	N/A	N/A	N/A	1
FD-1P	FLOOR DRAIN	VARIES	VARIES	VARIES	N/A	N/A	N/A	0
HD-1P	HUB DRAIN	VARIES	VARIES	VARIES	N/A	N/A	N/A	1
HV-1	HOSE VALVE, INTERIOR	N/A	N/A	N/A	N/A	N/A	SEE PLANS	1
LAV-1	WALL HUNG TYPE	1 1/2	1 1/2	1 1/2	1/2	1/2	N/A	1,2,3
LAV-2	WALL HUNG TYPE	1 1/2	1 1/2	1 1/2	1/2	1/2	N/A	1,2,3
MS-1	MOP SINK	2	1 1/2	2	1/2	1/2	N/A	1,3
S-1	SINGLE BOWL SINK	1 1/2	1 1/2	2	1/2	1/2	N/A	1
S-2	DOUBLE BOWL SINK	1 1/2	1 1/2	2	1/2	1/2	N/A	1
S-3	STAINLESS STEEL SMALLER	1 1/2	1 1/2	2	1/2	1/2	N/A	1
S-4	FIBERGLASS LAUNDRY TUB	1 1/2	1 1/2	1 1/2	1/2	1/2	N/A	1
SK-1	SAMPLE SINK	1 1/2	1 1/2	2	1/2	1/2	N/A	1,3
SH-1	SHOWER	2	1 1/2	2	1/2	1/2	N/A	1,3
UR-1	URINAL	2	1 1/2	2	3/4	N/A	N/A	2
WC-1	WATER CLOSET	4	2	N/A	1"	N/A	N/A	1,2
WC-2	WATER CLOSET	4	2	N/A	1"	N/A	N/A	1
WCO-1	WALL CLEANOUT	4	N/A	N/A	N/A	N/A	N/A	1

NOTES:
1. SEE 22 40 00 FOR PLUMBING FIXTURE SPECIFICATIONS.
2. ADA ACCESSIBLE.
3. PROVIDE FIXTURE WITH A HOT WATER MIXING VALVE. SEE THERMOSTATIC MIXING VALVE SCHEDULE.

RECIRCULATION PUMP SCHEDULE

TAG NO.	GPM	FT. HEAD	FLUID	RPM	SUCTION SIZE	DISCHARGE SIZE	POWER	VOLTS/PHASE	AMPS	TYPE	MANUFACTURER	MODEL	NOTES
20-RCP-1	2	14	RHW	1440-3720	3/4"	3/4"	45 WATTS	115/1	1.1	ECM CIRCULATOR	TACO	006 E3	1

NOTES
1. PROVIDE WITH AQUASTAT AND SMART PLUG TO CONTROL THE OPERATION OF THE CIRCULATOR. COORDINATE THE TYPE AND SIZE OF INLET AND OUTLET CONNECTIONS. FURNISH PUMP WITH 6' CORD PLUG.
2. ADJUST SPEED AS REQUIRED TO MAINTAIN EVEN TEMPERATURES THRU THE HOT WATER LOOP.

EMERGENCY SHOWER / EYEWASH SCHEDULE

GENERAL DATA				PHYSICAL DATA				MISCELLANEOUS			
TAG NO.	LOCATION	TYPE	DESCRIPTION	OVERALL HEIGHT (IN)	OVERALL LENGTH (IN)	OVERALL WIDTH (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL	FLOW ALARM MODEL	ELECTRICAL (V/PH/HZ)
20-SSH-1 & 2	DEWATERING BUILDING	COMBINATION SHOWER/EYEWASH	FREE STANDING (INDOOR)	90	36	12	47	HAWS	8330	9001 DPDT	120/1/60
20-SSH-3 & 4	DEWATERING BUILDING	COMBINATION SHOWER/EYEWASH	FREEZE PROOF THRU WALL	90	36	12	47	BRADLEY CORP	S19-310TW	S19-324	120/1/60

ELEVATOR SUMP PUMP SCHEDULE

TAG NO.	LOCATION	TYPE	DISCHARGE PIPE SIZE (IN)	GPM	HEAD (FT)	RPM	MOTOR				MANUFACTURER, MODEL	NOTES	
							HP	VOLTS	PH	HZ			
20-SP-1	ELEVATOR PIT	SIMPLEX PACKAGED	1.5	30	12	3450	1/3	115	1	60.0	FLA/LRA 5.2/8	LIBERTY, ELV 250	1

NOTES:
1. PROVIDE COMPLETE PACKAGED SYSTEM WITH 25 FT CORD.

BACKFLOW PREVENTER SCHEDULE

GENERAL DATA					PHYSICAL DATA					GENERAL	
TAG NO.	LOCATION	VALVE TYPE	SERVICE	SIZE (INCHES)	OVERALL HEIGHT (IN)	OVERALL LENGTH (IN)	OVERALL WIDTH (IN)	WEIGHT (LBS)	MAXIMUM PRESSURE DROP (PSI)	MANUFACTURER; MODEL	NOTES
20-RBPB-1	DEWATERING BUILDING	REDUCED PRESSURE ZONE ASSEMBLY	W1	2	8	22	6	30	14	WATTS; LF009M2QT	
20-RBPB-2	DEWATERING BUILDING	REDUCED PRESSURE ZONE ASSEMBLY	W2	2	8	22	6	30	14	WATTS; LF009M2QT	

THERMOSTATIC MIXING VALVE SCHEDULE

TAG NO.	LOCATION	SYSTEM	HOT WATER		COLD WATER		TEMPERED WATER		MIN. FLOW (GPM) (IN)	MAX ΔP (PSI)	MANUFACTURER; MODELS	NOTES
			TEMP °F	GPM	TEMP °F	GPM	TEMP °F	GPM				
20-TMV-1	DEWATERING BUILDING	HOT WATER	140	0.25 MIN	65	0.25 MIN	115	15 MAX	2	5 PSI @ 17 GPM	LEONARD; PNV-100-LF	1,2

NOTES:
1. PROVIDE VALVE WITH THE FOLLOWING FEATURES: ASSE 1070 CERTIFIED.
2. ELECTRONICALLY CONTROLLED VALVE. FURNISH WITH BACK-UP POWER SUPPLY, 6' FOOT CORD PLUG AND WALL CABINET

TANK TYPE WATER HEATER SCHEDULE

GENERAL DATA				FUEL GAS INFORMATION				WATER DATA				ELECTRICAL		PHYSICAL DIMENSIONS			MISCELLANEOUS DATA		
TAG NO.	FACILITY	LOCATION	SYSTEM SERVED	HEATING TYPE	GAS PRESSURE	GAS FLOW RATE	INPUT BTUH	EFFICIENCY	TANK CAPACITY (GAL)	RECOVERY (GPH)	INLET TEMP (°F)	OUTLET TEMP (°F)	AMPS	V/PH/HZ	OVERALL HEIGHT (IN)	OVERALL DIAMETER (IN)	OPERATING WEIGHT (LBS)	MANUFACTURE R	MODEL NO.
20-GWH-1	DEWATERING BUILDING	MECH ROOM	DOMESTIC HOT WATER	NAT GAS	2.0 PSI	76 CFH	76,000	94%	50	115	65	140	5	120	69"	22"	650	STATE	SHE50-76NE

1. FURNISH WITH CORD PLUG FOR WALL PLUG
2. FURNISH WITH CONDENSATE NEUTRALIZING KIT.
3. FURNISH WITH CONCENTRIC FLUE ADAPTER SUITABLE FOR INSTALLATION INTO AN EXTERIOR WALL.
4. FURNISH WITH NATURAL GAS REGULATOR AS REQUIRE.

EXPANSION TANK SCHEDULE

TAG NO.	LOCATION	MIN. ACCEPTANCE VOLUME (GAL)	PRECHARGE PRESSURE (PSIG)	MAX PRESSURE (PSIG)	MIN PRESSURE (PSIG)	DESIGN PRESSURE (PSIG)	SIZE (DIA X HEIGHT)	TANK WEIGHT (LBS)	MANUFACTURE R; MODEL	NOTES
20-ET-1	DEWATERING BUILDING	2.1	50	150	60	60	10" x 10"	25	AMTROL; ST-5C	1

NOTES:
1. ANCHOR TANK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

WATER HAMMER ARRESTOR SCHEDULE

TAG NO.	LOCATION	PDI UNIT SIZE	MANUFACTURER	MODEL NO.	NOTES
20-WHA-1	RESTROOMS	A	ZURN	Z1700 SERIES #100	1
20-WHA-2	SAFETY SHOWER	C	ZURN	Z1700 SERIES #300	1

NOTES:
1. SIZE PER MANUFACTURERS REQUIREMENTS. UNITS SHALL BE PDI-WHA201 CERTIFIED.

DEWATERING AND CONTROL BUILDING SCHEDULES

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

NTS
VERIFY SCALE
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PROJ D3226100
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SHEET 127 of 270

ALL WORK OF THIS SHEET CONCERNING CHLORINE AND SO2 BUILDING IS INCLUDED IN ADDITIVE ALTERNATE #1 UNLESS OTHERWISE NOTED.

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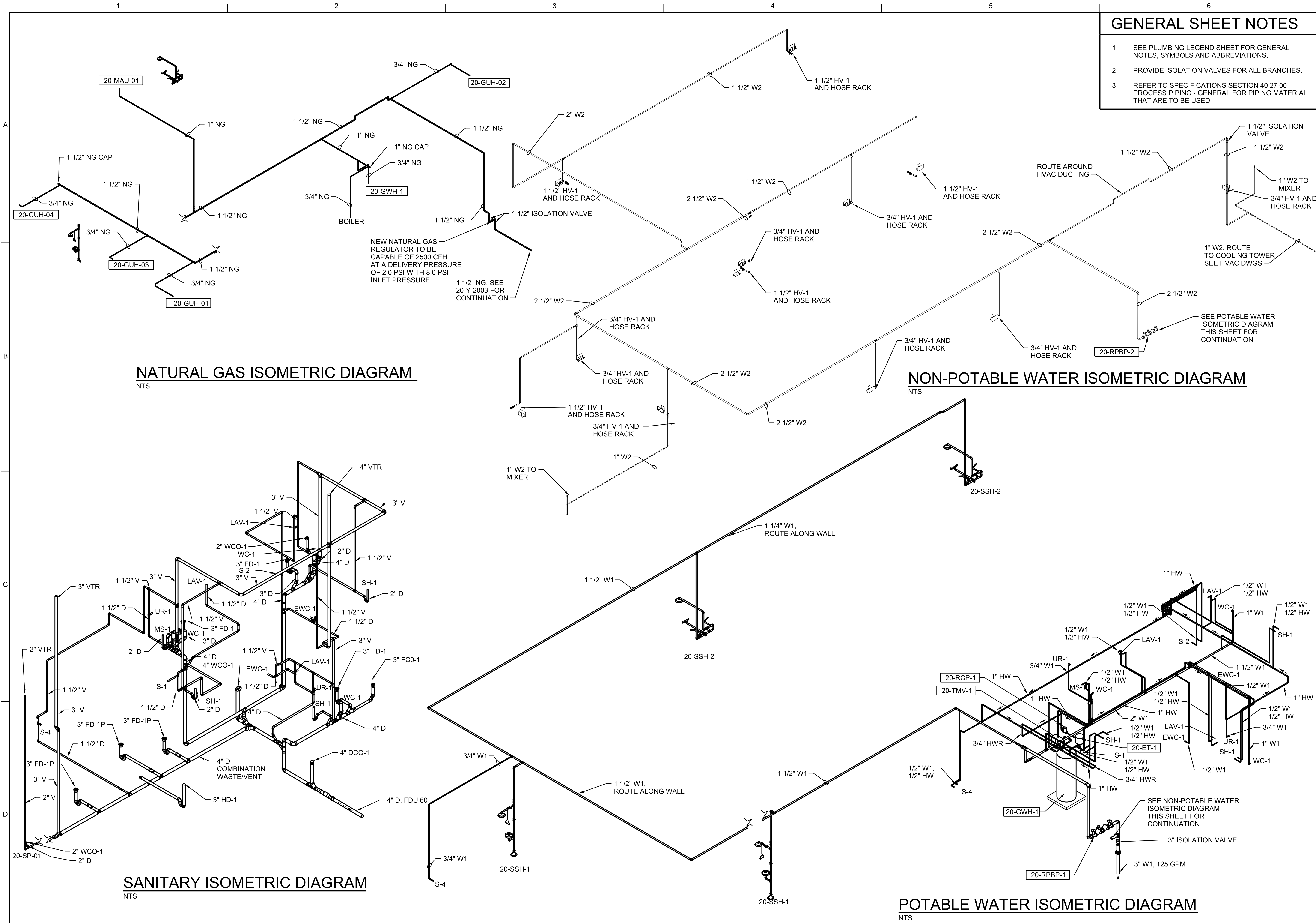
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GENERAL SHEET NOTES

- SEE PLUMBING LEGEND SHEET FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- PROVIDE ISOLATION VALVES FOR ALL BRANCHES.
- REFER TO SPECIFICATIONS SECTION 40 27 00 PROCESS PIPING - GENERAL FOR PIPING MATERIAL THAT ARE TO BE USED.

NATURAL GAS ISOMETRIC DIAGRAM

NTS

NON-POTABLE WATER ISOMETRIC DIAGRAM

NTS

SANITARY ISOMETRIC DIAGRAM

NTS

POTABLE WATER ISOMETRIC DIAGRAM

NTS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

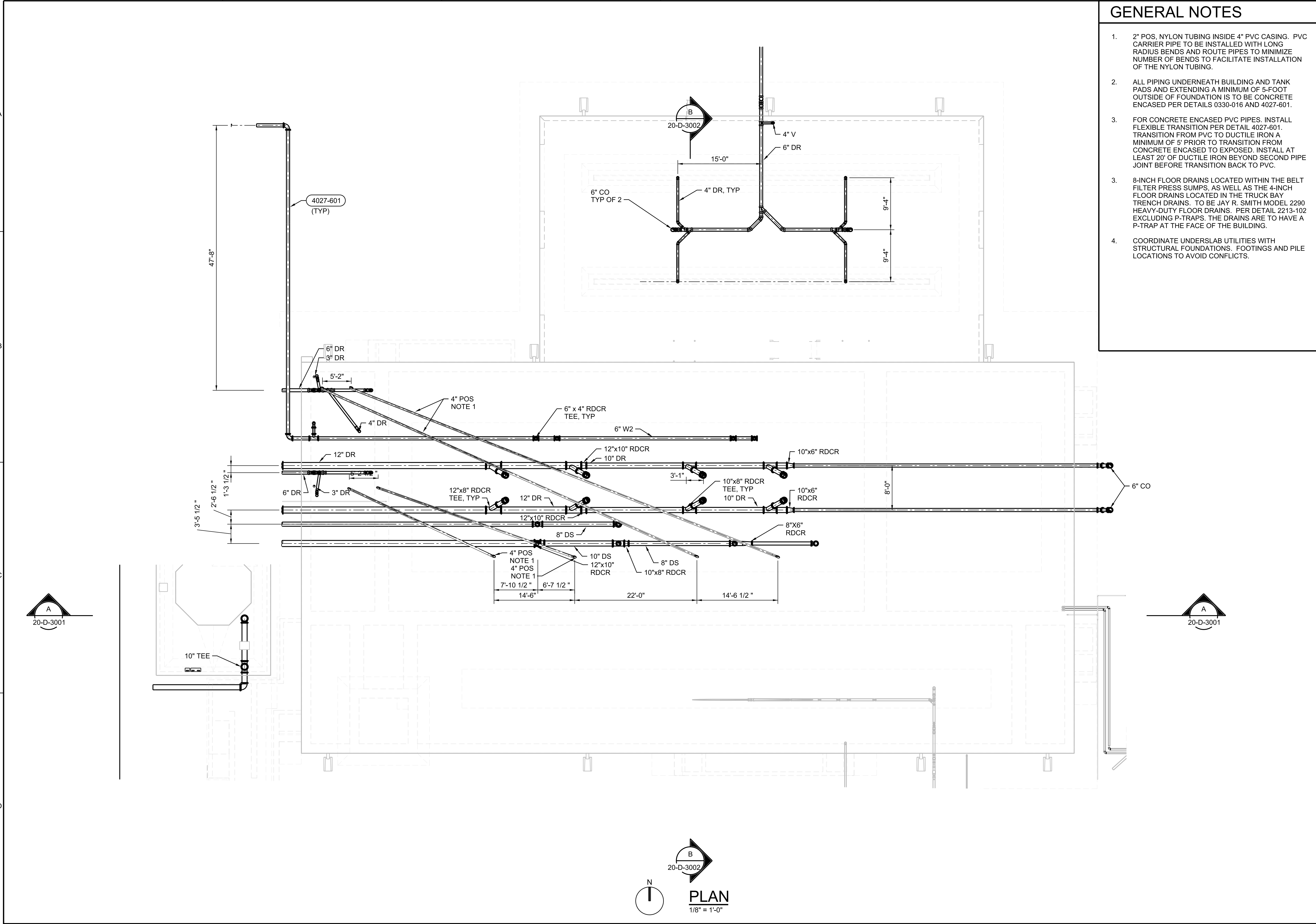
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J PIGMAN
A VALENTE
DR
CHK
REVISION
BY
APVD
T PRICE



GENERAL NOTES

- 2" POS, NYLON TUBING INSIDE 4" PVC CASING. PVC CARRIER PIPE TO BE INSTALLED WITH LONG RADIUS BENDS AND ROUTE PIPES TO MINIMIZE NUMBER OF BENDS TO FACILITATE INSTALLATION OF THE NYLON TUBING.
- ALL PIPING UNDERNEATH BUILDING AND TANK PADS AND EXTENDING A MINIMUM OF 5-FOOT OUTSIDE OF FOUNDATION IS TO BE CONCRETE ENCASED PER DETAILS 0330-016 AND 4027-601.
- FOR CONCRETE ENCASED PVC PIPES, INSTALL FLEXIBLE TRANSITION PER DETAIL 4027-601. TRANSITION FROM PVC TO DUCTILE IRON A MINIMUM OF 5' PRIOR TO TRANSITION FROM CONCRETE ENCASED TO EXPOSED. INSTALL AT LEAST 20' OF DUCTILE IRON BEYOND SECOND PIPE JOINT BEFORE TRANSITION BACK TO PVC.
- 8-INCH FLOOR DRAINS LOCATED WITHIN THE BELT FILTER PRESS SUMPS, AS WELL AS THE 4-INCH FLOOR DRAINS LOCATED IN THE TRUCK BAY TRENCH DRAINS. TO BE JAY R. SMITH MODEL 2290 HEAVY-DUTY FLOOR DRAINS. PER DETAIL 2213-102 EXCLUDING P-TRAPS. THE DRAINS ARE TO HAVE A P-TRAP AT THE FACE OF THE BUILDING.
- COORDINATE UNDERSLAB UTILITIES WITH STRUCTURAL FOUNDATIONS. FOOTINGS AND PILE LOCATIONS TO AVOID CONFLICTS.

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA	
JACOBS		PROCESS MECHANICAL		DEWATERING AND CONTROL BUILDING UNDERSLAB PIPING	
SCALE					
VERIFY SCALE					
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PROJ	D3226100				
DWG	20-D-2001				
SHEET	129 of 270				
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K WADDELL		K WADDELL		J HORTON	
DR		CHK		APVD	
J WILCOX		REVISION		BY	
APVD		APVD		APVD	
K WADDELL		K WADDELL		K WADDELL	

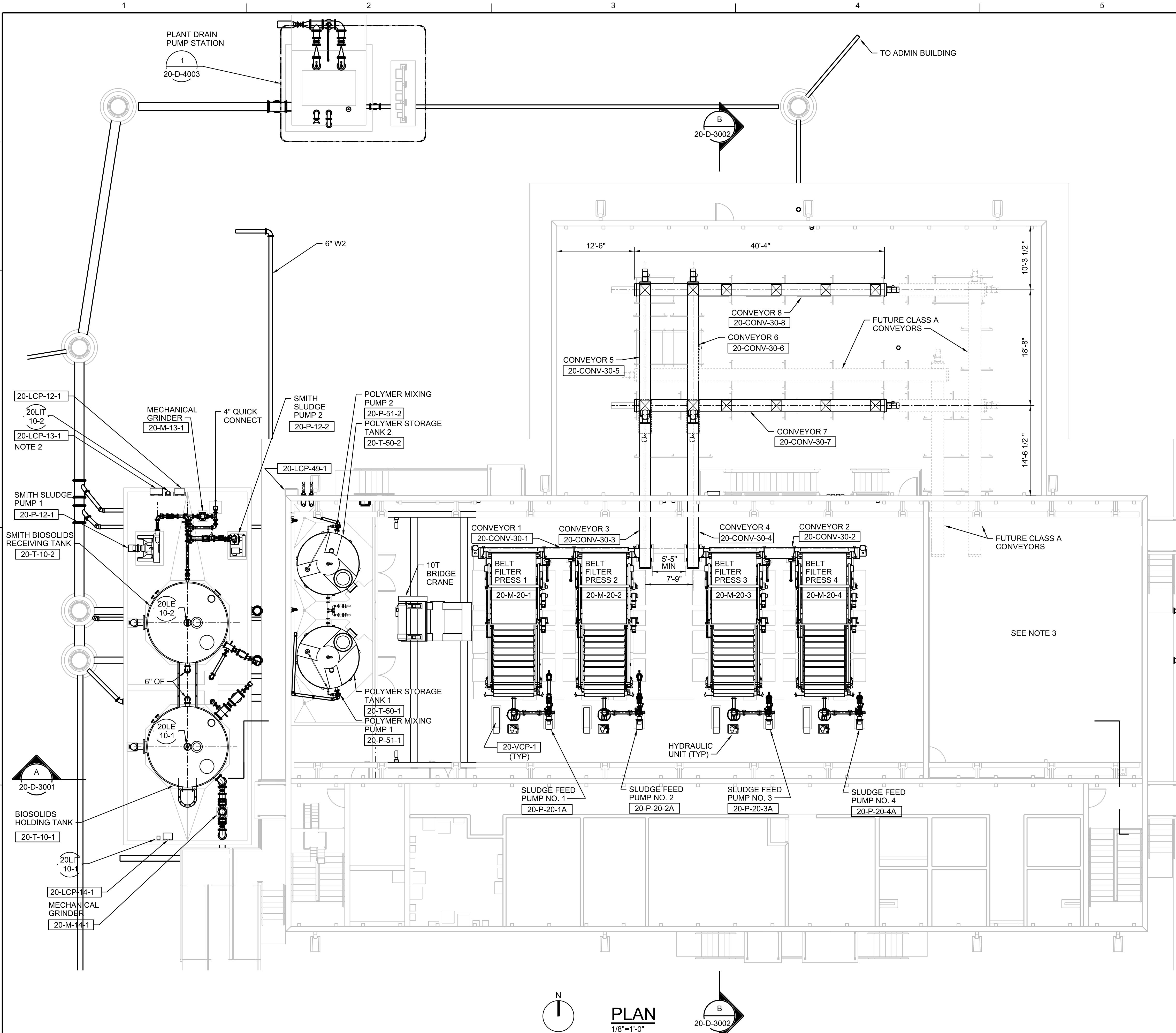
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GENERAL NOTES

- PIPE SUPPORTS TO BE SIZED AS REQUIRED BY CALCULATIONS.
- MOUNT CONTROL PANELS FACING NORTH.
- TRAINING ROOM IS CONFIGURED SUCH THAT IT MAY BE REMOVED AND REPLACED WITH A CLASS A BIOSOLIDS PRODUCTION FACILITY.

<div>JACOBS</div> <div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div>		<div>C.C. WILLIAMS WWTP</div> <div>DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)</div>		
PROCESS MECHANICAL		DEWATERING AND CONTROL BUILDING SECOND FLOOR PLAN		
SCALE				
VERIFY SCALE				
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DWG	20-D-2003			
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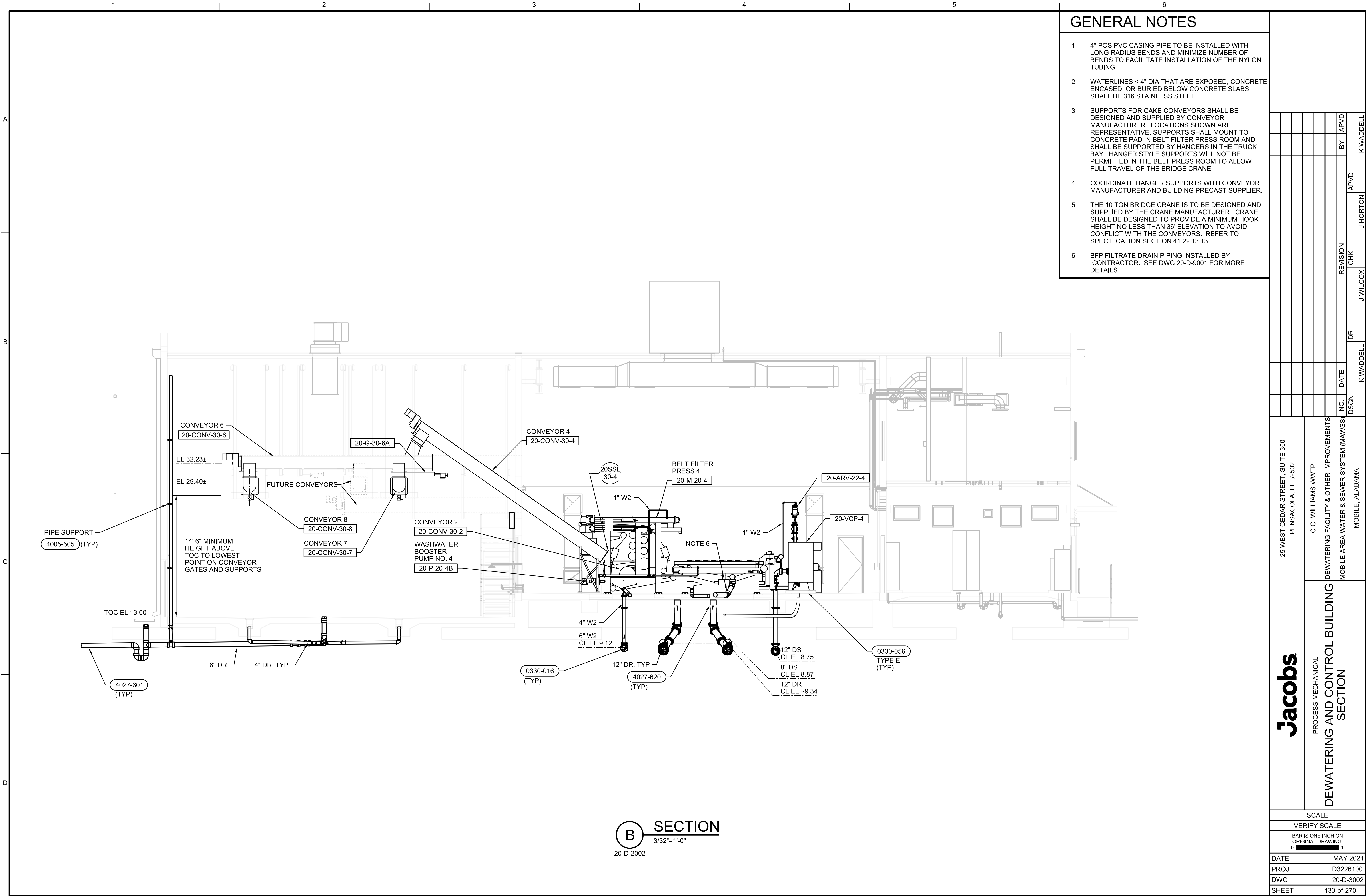
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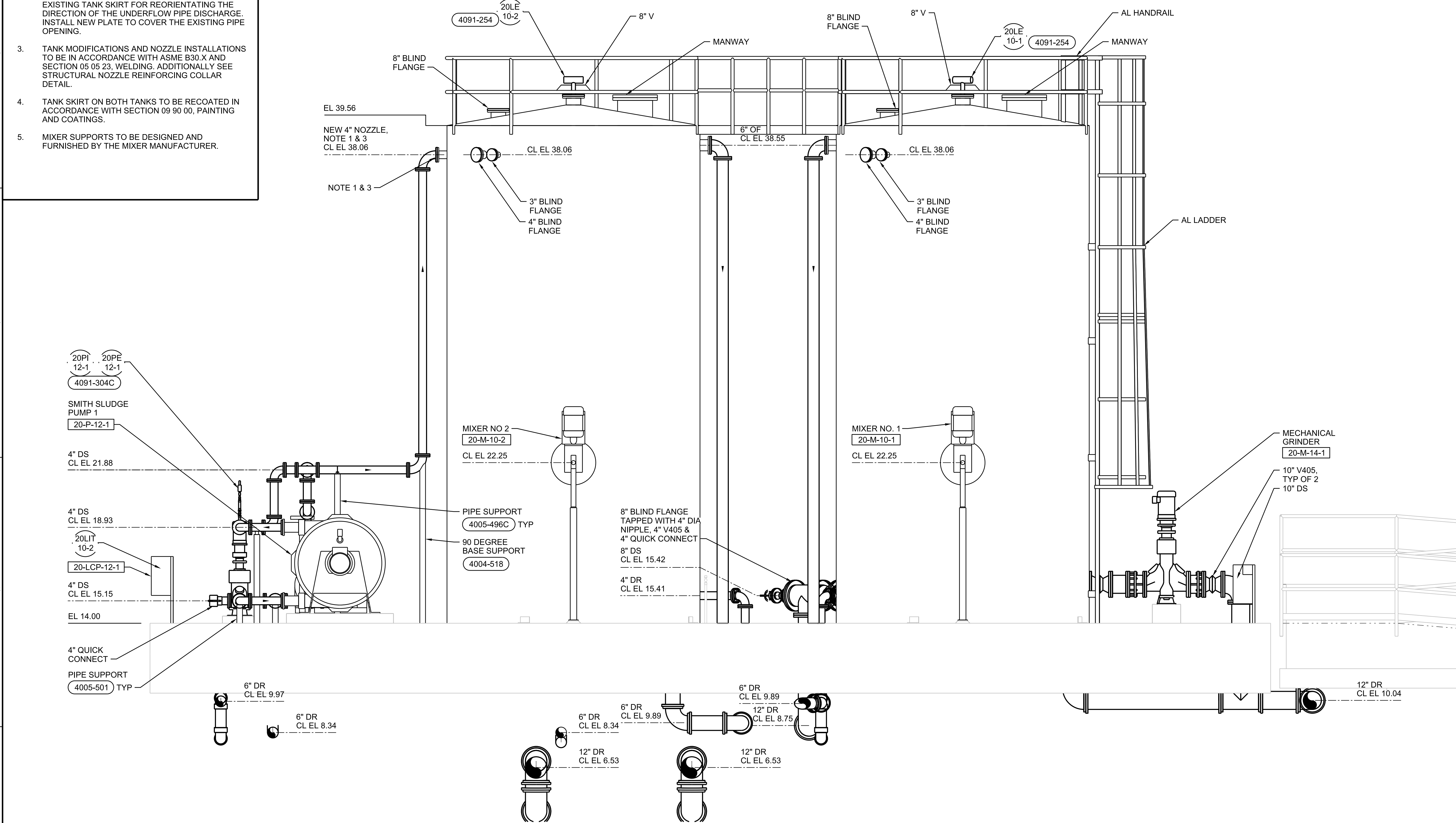
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REVISION J HORTON
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GENERAL NOTES

1. INSTALL NEW 4" FILL NOZZLE.
2. REPLACE EXISTING 4" UNDERFLOW NOZZLE WITH A NEW 12" NOZZLE AND 12" 90 BEND. CORE THROUGH EXISTING TANK SKIRT FOR REORIENTATING THE DIRECTION OF THE UNDERFLOW PIPE DISCHARGE. INSTALL NEW PLATE TO COVER THE EXISTING PIPE OPENING.
3. TANK MODIFICATIONS AND NOZZLE INSTALLATIONS TO BE IN ACCORDANCE WITH ASME B30.X AND SECTION 05 05 23, WELDING. ADDITIONALLY SEE STRUCTURAL NOZZLE REINFORCING COLLAR DETAIL.
4. TANK SKIRT ON BOTH TANKS TO BE RECOATED IN ACCORDANCE WITH SECTION 09 00 00, PAINTING AND COATINGS.
5. MIXER SUPPORTS TO BE DESIGNED AND FURNISHED BY THE MIXER MANUFACTURER.



C SECTION
3/8"=1'-0"
020-D-2002

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

Jacobs

PROCESS MECHANICAL
DEWATERING AND CONTROL BUILDING
STORAGE TANKS
SECTION

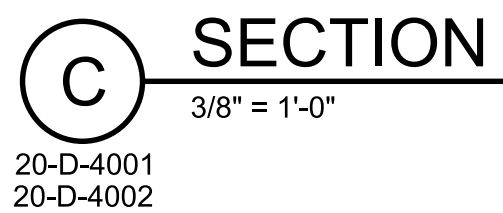
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DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA



SCALE	
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SHEET	135 of 270

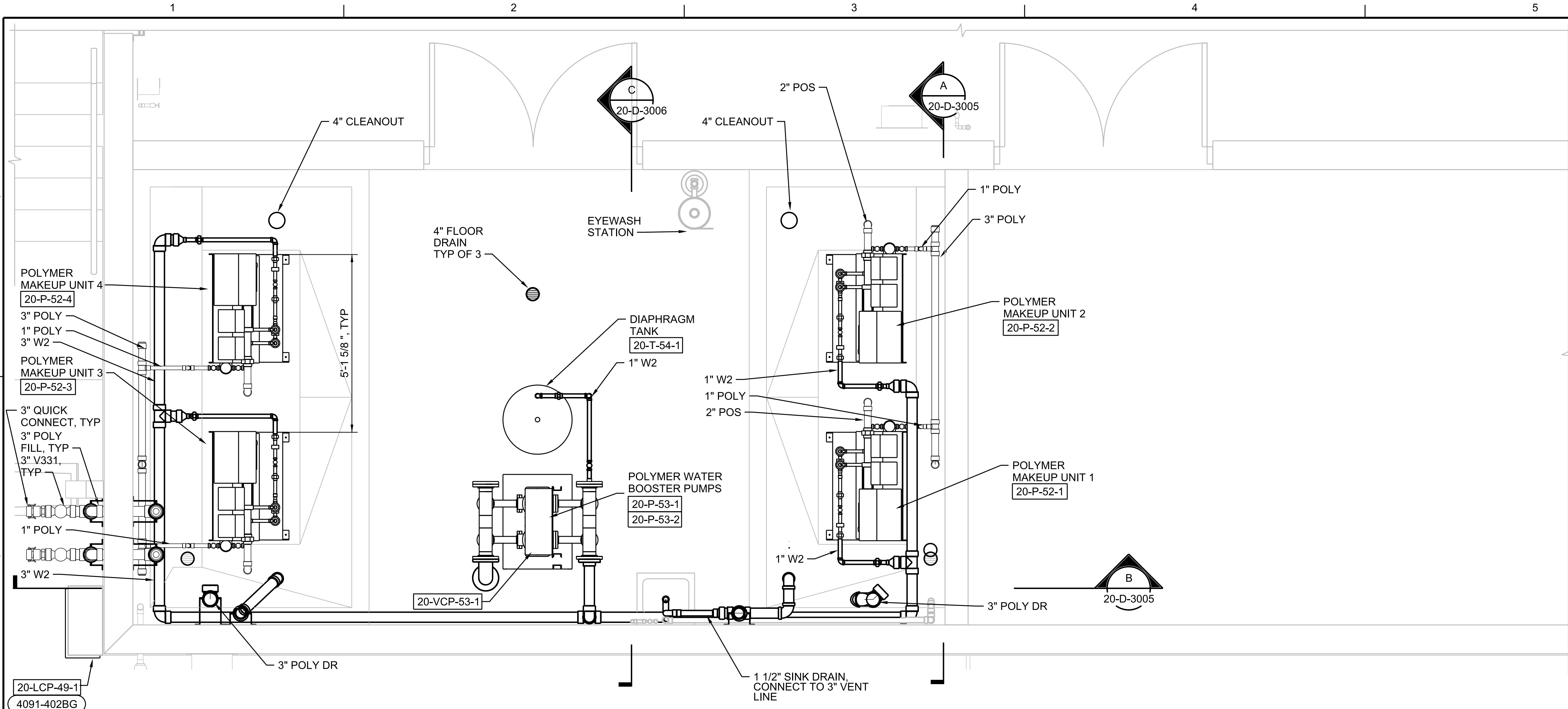
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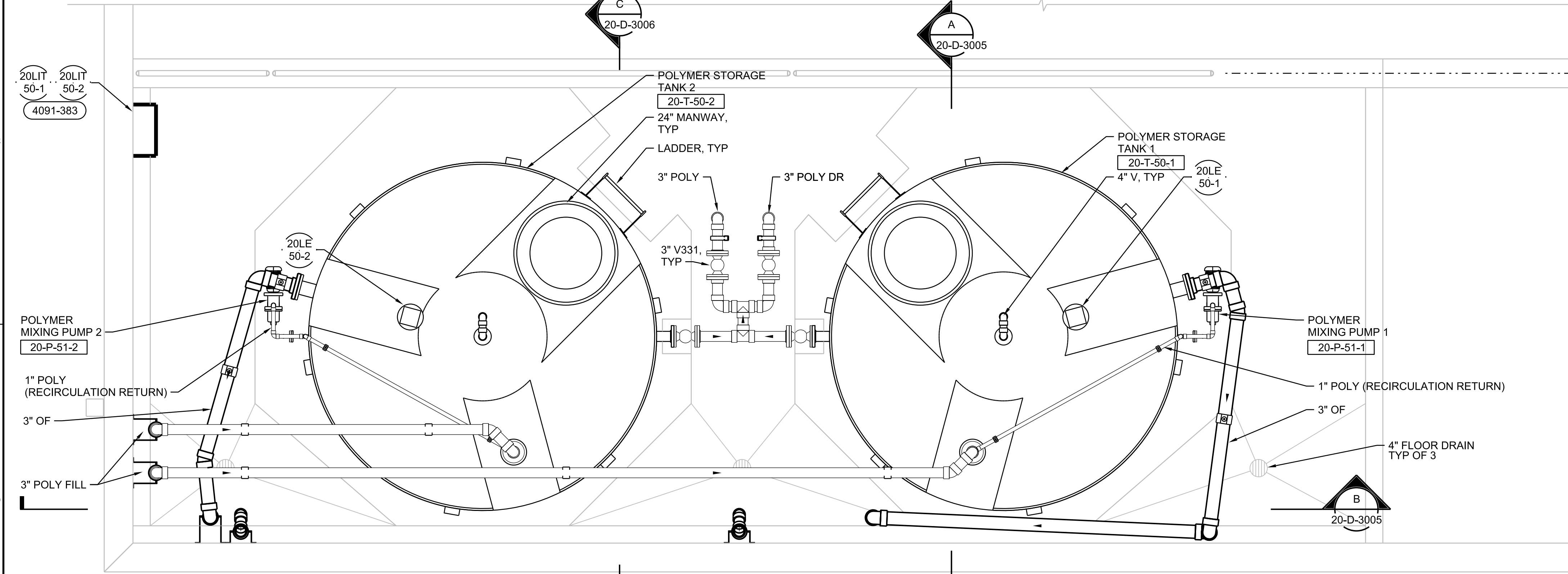
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		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502								
		C.C. WILLIAMS WWTP								
PROCESS MECHANICAL		DEWATERING FACILITY & OTHER IMPROVEMENTS								
DEWATERING AND CONTROL BUILDING POLYMER SYSTEM SECTIONS		MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA								
		NO.	DATE	REVISION		CHK		APVD		BY
		DSGN								
				K WADDELL	DR	L WALTER	J HORTON	APVD		K WADDELL
SCALE VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0"  1"										
DATE	MAY 2021									
PROJ	D3226100									
DWG	20-D-3006									
SHEET	137 of 270									



1 ENLARGED PLAN
1/2" = 1'-0"



2 ENLARGED PLAN
1/2" = 1'-0"

GENERAL NOTES

1. FLOOR DRAINS TO BE JAY R. SMITH MODEL 2210 OR EQUAL.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

Jacobs
PROCESS MECHANICAL
DEWATERING AND CONTROL BUILDING
POLYMER SYSTEM
ENLARGED PLAN

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

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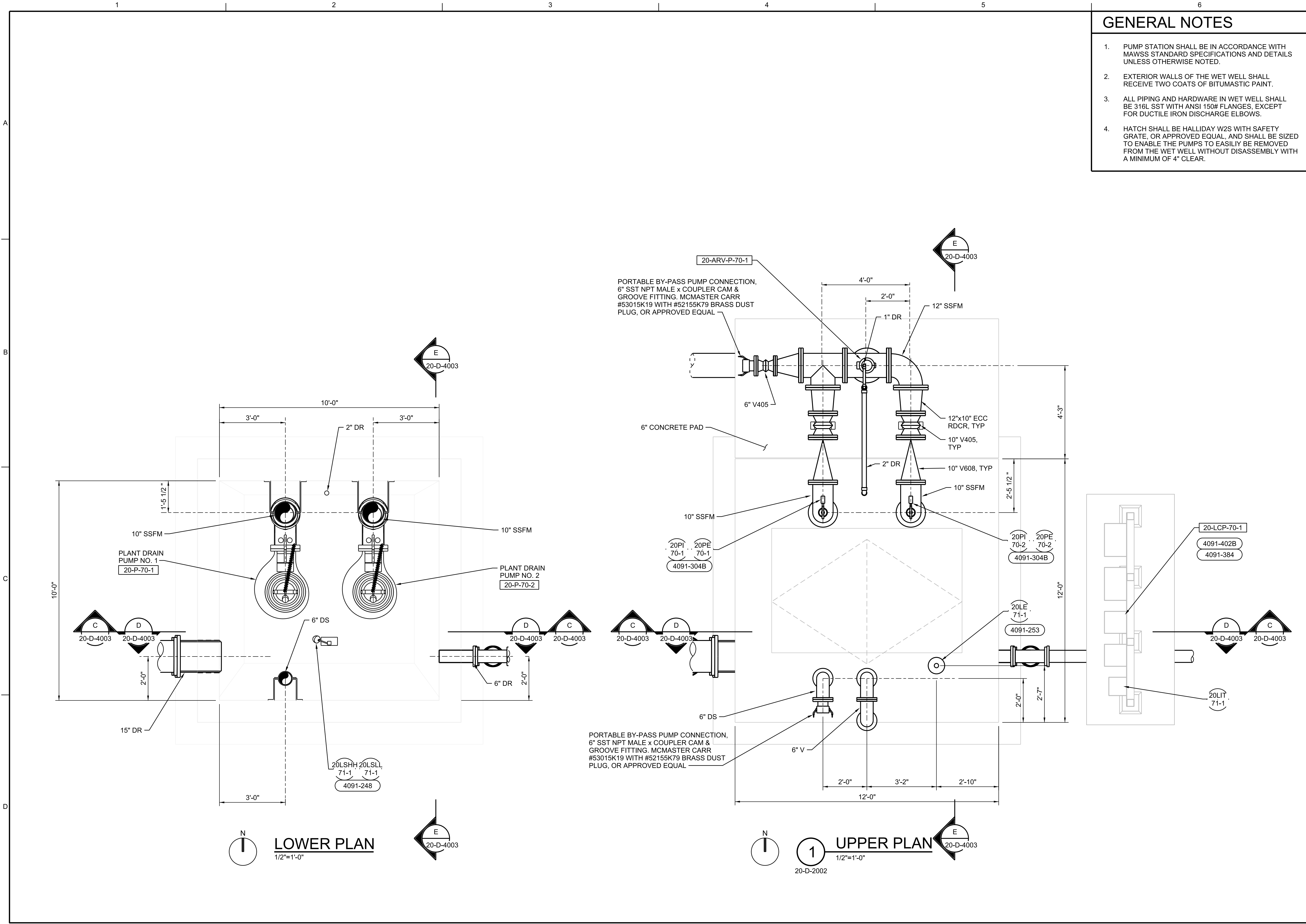
DATE MAY 2021
PROJ D3226100
DWG 20-D-4001
SHEET 138 of 270

SCALE
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

NO. DATE DSGN
REVISION
CHK
DR
APVD
BY
APVD


K WADDELL
J HORTON
L WALTER
K WADDELL

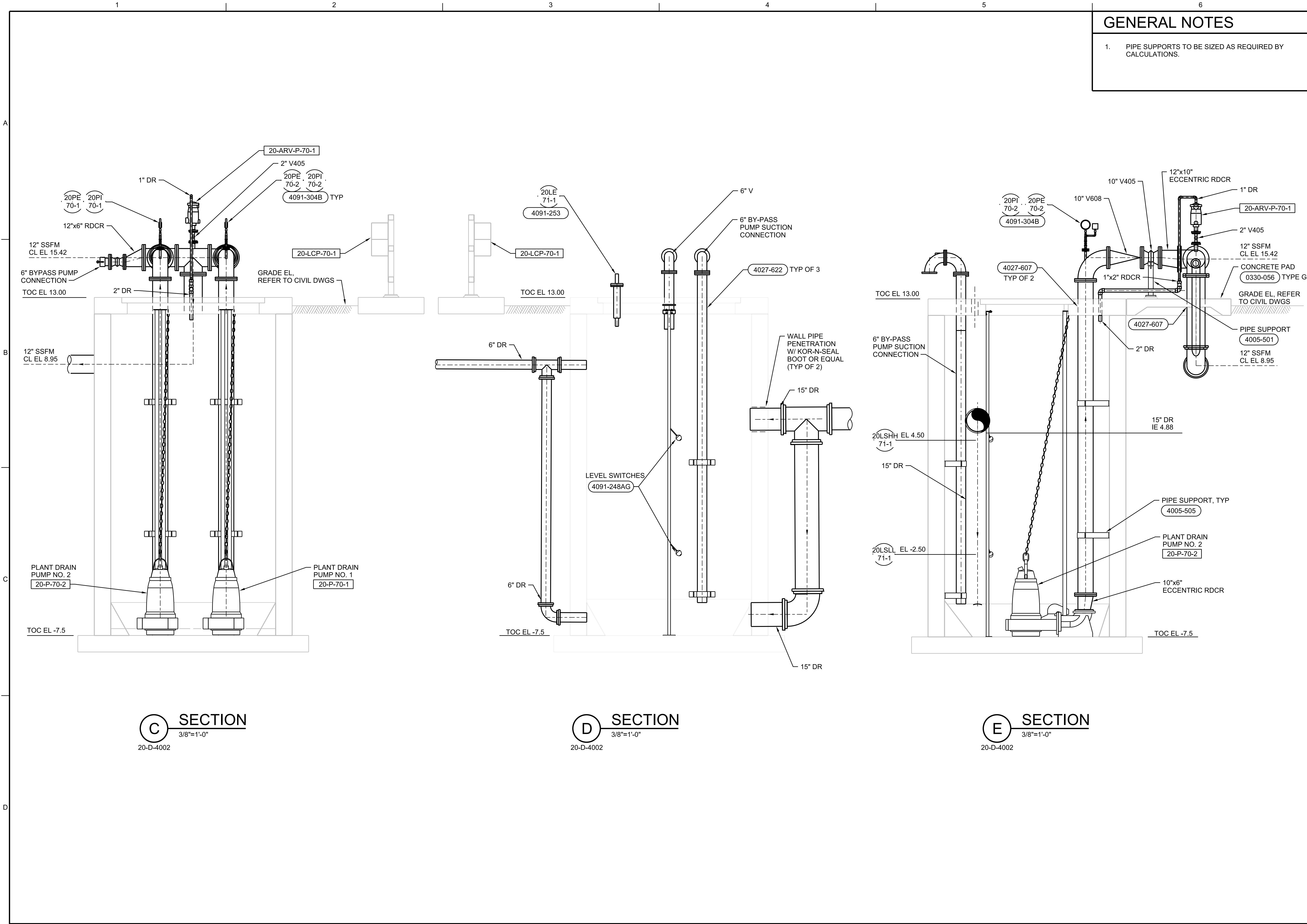
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GENERAL NOTES

- PUMP STATION SHALL BE IN ACCORDANCE WITH MAWSS STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE NOTED.
- EXTERIOR WALLS OF THE WET WELL SHALL RECEIVE TWO COATS OF BITUMASTIC PAINT.
- ALL PIPING AND HARDWARE IN WET WELL SHALL BE 316L SST WITH ANSI 150# FLANGES, EXCEPT FOR DUCTILE IRON DISCHARGE ELBOWS.
- HATCH SHALL BE HALLIDAY W2S WITH SAFETY GRATE, OR APPROVED EQUAL, AND SHALL BE SIZED TO ENABLE THE PUMPS TO EASILY BE REMOVED FROM THE WET WELL WITHOUT DISASSEMBLY WITH A MINIMUM OF 4" CLEAR.

<div></div> <div>PROCESS MECHANICAL</div> <div>DEWATERING AND CONTROL BUILDING PLANT DRAIN PUMP STATION ENLARGED PLANS</div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)		MOBILE, ALABAMA		NO.		DATE		DGN		DR		CHK		J WILCOX		J HORTON		APVD		BY		APVD							
SCALE																																			
VERIFY SCALE																																			
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"																																			
DATE				MAY 2021																															
PROJ				D3226100																															
DWG				20-D-4002																															
SHEET				139 of 270																															



<div></div> <div>PROCESS MECHANICAL</div> <div>DEWATERING AND CONTROL BUILDING PLANT DRAIN PUMP STATION SECTIONS</div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS		MOBILE AREA WATER & SEWER SYSTEM (MAWSS)		MOBILE, ALABAMA															

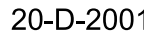
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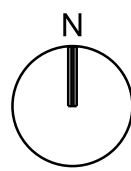


PLOT DATE: 5/27/2021

PLOT TIME: 7:09:21 AM

CONFIRMED DOCUMENTS

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1/8"=1'-0'

SHEET 143 of 270

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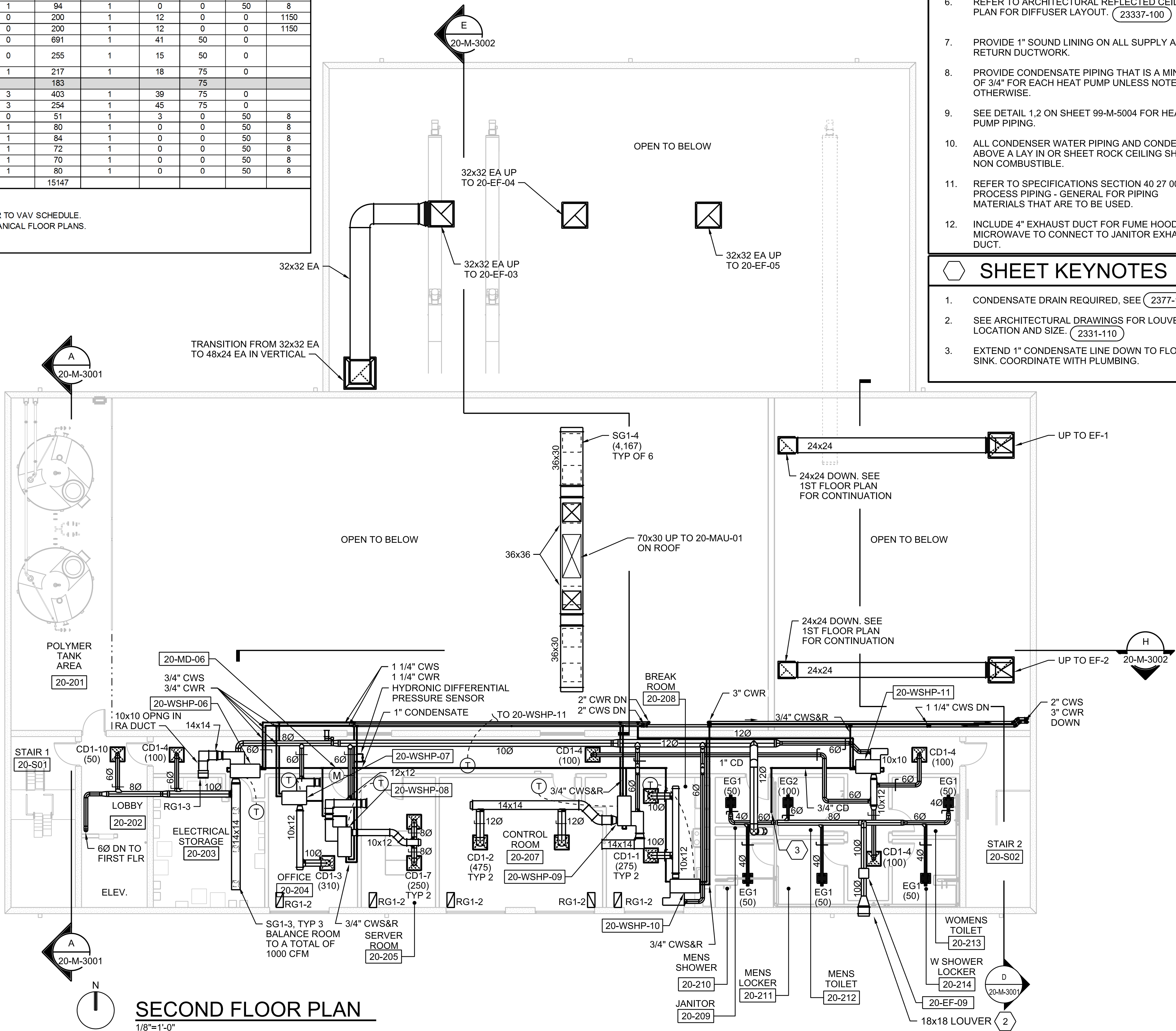
VENTILATION REQUIREMENTS AND SCHEDULE												
ROOM NAME	OCCUPANCY CATEGORY (ASHRAE 62.1-2016, TABLE 6.2.2.1)	OCCUPANCY CLASSIFICATION (ASHRAE 62.1-2019, TABLE 6-1)	PEOPLE OUTDOOR AIRFLOW Rp(CFM/person)	AREA OUTDOOR AIRFLOW Ra(CFM/SQF)	OCCUPANT DENSITY #/1000SQF	OCCUPANT LOAD Pz(PERSON) (NOTE 5)	OCCUPIED AREA Az(SQF)	AIR DISTRIBUTION Ez	REQUIRE D OSA TOTAL (CFM)	ACTUAL PROVIDED OSA TOTAL (CFM)	EXHAUST AIR (CFM)	REMARKS
20-101 TRUCK LOADING BAY	GENERAL	REMARKS					3416					
20-102 BELT FILTER PRESS ROOM	GENERAL	REMARKS					4781					
20-103 LOBBY	GENERAL	CORRIDORS	0	0.06	0	1	106	1	6	50	0	
20-104 ELECTRICAL ROOM	GENERAL	COMPUTER - MISC	5	0.06	4	0	1405	1	84	200	0	
20-105 TRAINING ROOM	GENERAL	CONFERENCE/MEETING	5	0.06	0	30	1846	1	261	270	0	
20-106 MECHANICAL ROOM	GENERAL	REMARKS					505			200		
20-107 TOILET ROOM	OFFICE BUILDINGS	TOILETS - PRIVATE	0	0.00	0	1	82	1	0	0	50	8
20-108 SHOWER	OFFICE BUILDINGS	SHOWER ROOMS	0	0.00	0	1	72	1	0	0	50	8
20-109 LOCKER ROOM	GENERAL	LOCKER ROOMS	0	0.00	0	1	94	1	0	0	50	8
20-S01 STAIRS 1	GENERAL	CORRIDORS	5	0.06	0	0	200	1	12	0	0	1150
20-S02 STAIRS 2	GENERAL	CORRIDORS	5	0.06	0	0	200	1	12	0	0	1150
20-204 CORRIDOR	OFFICE BUILDINGS	CORRIDORS	0	0.06	0	0	691	1	41	50	0	
20-205 ELECTRICAL STORAGE	OFFICE BUILDINGS	OCC. STORAGE - DRY MATERIAL	5	0.06	2	0	255	1	15	50	0	
20-206 OFFICE	OFFICE BUILDINGS	OFFICE SPACE	5	0.06	5	1	217	1	18	75	0	
20-207 SERVER ROOM	OFFICE BUILDINGS	REMARKS					183			75		
20-208 CONTROL ROOM	OFFICE BUILDINGS	COMPUTER - MISC	5	0.06	4	3	403	1	39	75	0	
20-209 BREAK ROOM	OFFICE BUILDINGS	BREAKROOMS	5	0.12	50	3	254	1	45	75	0	
20-213 JANITOR	OFFICE BUILDINGS	JANITOR CLOSET	0	0.06	5	0	51	1	3	0	50	8
20-214 MENS SHOWER	GENERAL	SHOWER ROOMS	0	0.00	0	1	80	1	0	0	50	8
20-215 MENS LOCKER	N/A	LOCKER ROOMS	0	0	0	1	84	1	0	0	50	8
20-216 MENS TOILET	OFFICE BUILDINGS	TOILETS - PRIVATE	0	0.00	0	1	72	1	0	0	50	8
20-217 WOMENS TOILET	OFFICE BUILDINGS	TOILETS - PRIVATE	0	0.00	0	1	70	1	0	0	50	8
20-218 W SHOWER LOCKER	OFFICE BUILDINGS	LOCKER ROOMS	0	0	0	1	80	1	0	0	50	8
							15147					
REMARKS 1. BASIS ASHRAE 62.1-2019, TABLE 6-1 2. AIR DISTRIBUTION EFFECTIVENESS Ez IS BASED ON MAXIMUM 85 DEGREE LEAVING AIR TEMPERATURE AT THE DIFFUSER. REFER TO VAV SCHEDULE. 3. TOTAL AIRFLOW TO EACH ROOM IS SUMMATION OF VAV PRIMARY AIR PLUS OUTSIDE AIR. REFER TO VAV SCHEDULE AND MECHANICAL FLOOR PLANS. 4. OCCUPANT LOAD IS BASED ON FURNITURE PLAN OR DEFAULT OCCUPANT DENSITY PER ASHRAE 62.1-2016, TABLE 6.2.2.1. 5. EXHAUST RATES CALCULATED USING ASHRAE 62.1, TABLE 6.2 at 50 CFM FOR INTERMITTENT EXHAUST.												

GENERAL SHEET NOTES

- RECOMMEND AIR VOLUME DAMPERS TO ENGINEER THAT NEED TO BE ADDED IN ORDER TO OBTAIN PROPER AIR CONTROL.
- LOCATE SENSORS AND CONTROL PANELS 5 FEET FROM FINISHED FLOOR.
- DO NOT ROUTE DUCTWORK DIRECTLY ABOVE ELECTRICAL EQUIPMENT.
- SUPPORT DUCTWORK PER (2305-804)
- SEE EQUIPMENT SCHEDULES FOR MOUNTING HEIGHTS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR DIFFUSER LAYOUT. (23337-100)
- PROVIDE 1" SOUND LINING ON ALL SUPPLY AND RETURN DUCTWORK.
- PROVIDE CONDENSATE PIPING THAT IS A MINIMUM OF 3/4" FOR EACH HEAT PUMP UNLESS NOTED OTHERWISE.
- SEE DETAIL 1,2 ON SHEET 99-M-5004 FOR HEAT PUMP PIPING.
- ALL CONDENSER WATER PIPING AND CONDENSATE ABOVE A LAY IN OR SHEET ROCK CEILING SHALL BE NON COMBUSTIBLE.
- REFER TO SPECIFICATIONS SECTION 40 27 00 PROCESS PIPING - GENERAL FOR PIPING MATERIALS THAT ARE TO BE USED.
- INCLUDE 4" EXHAUST DUCT FOR FUME HOOD OR MICROWAVE TO CONNECT TO JANITOR EXHAUST DUCT.

SHEET KEYNOTES

- CONDENSATE DRAIN REQUIRED, SEE (2377-100)
- SEE ARCHITECTURAL DRAWINGS FOR LOUVER LOCATION AND SIZE. (2331-110)
- EXTEND 1" CONDENSATE LINE DOWN TO FLOOR SINK. COORDINATE WITH PLUMBING.



SECOND FLOOR PLAN
1/8"=1'-0"

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

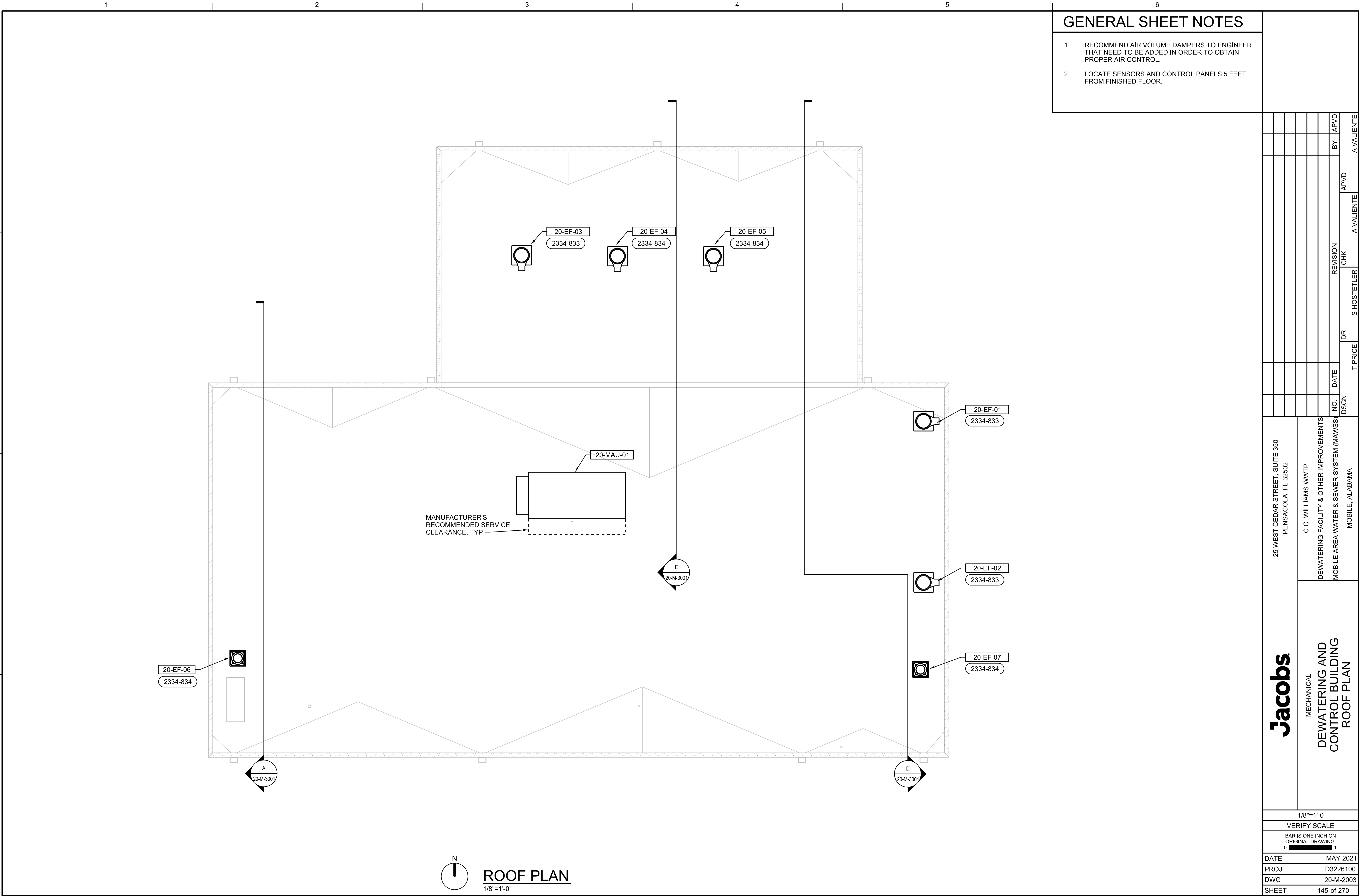
Jacobs

MECHANICAL
DEWATERING AND
CONTROL BUILDING
SECOND FLOOR PLAN

1/8"=1'-0	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	20-M-2002
SHEET	144 of 270

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GENERAL SHEET NOTES

- 1. RECOMMEND AIR VOLUME DAMPERS TO ENGINEER THAT NEED TO BE ADDED IN ORDER TO OBTAIN PROPER AIR CONTROL.
- 2. LOCATE SENSORS AND CONTROL PANELS 5 FEET FROM FINISHED FLOOR.

Jacobs

MECHANICAL

DEWATERING AND CONTROL BUILDING ROOF PLAN

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

1/8"=1'-0"

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

DATE

MAY 2021

PROJ

D3226100

DWG

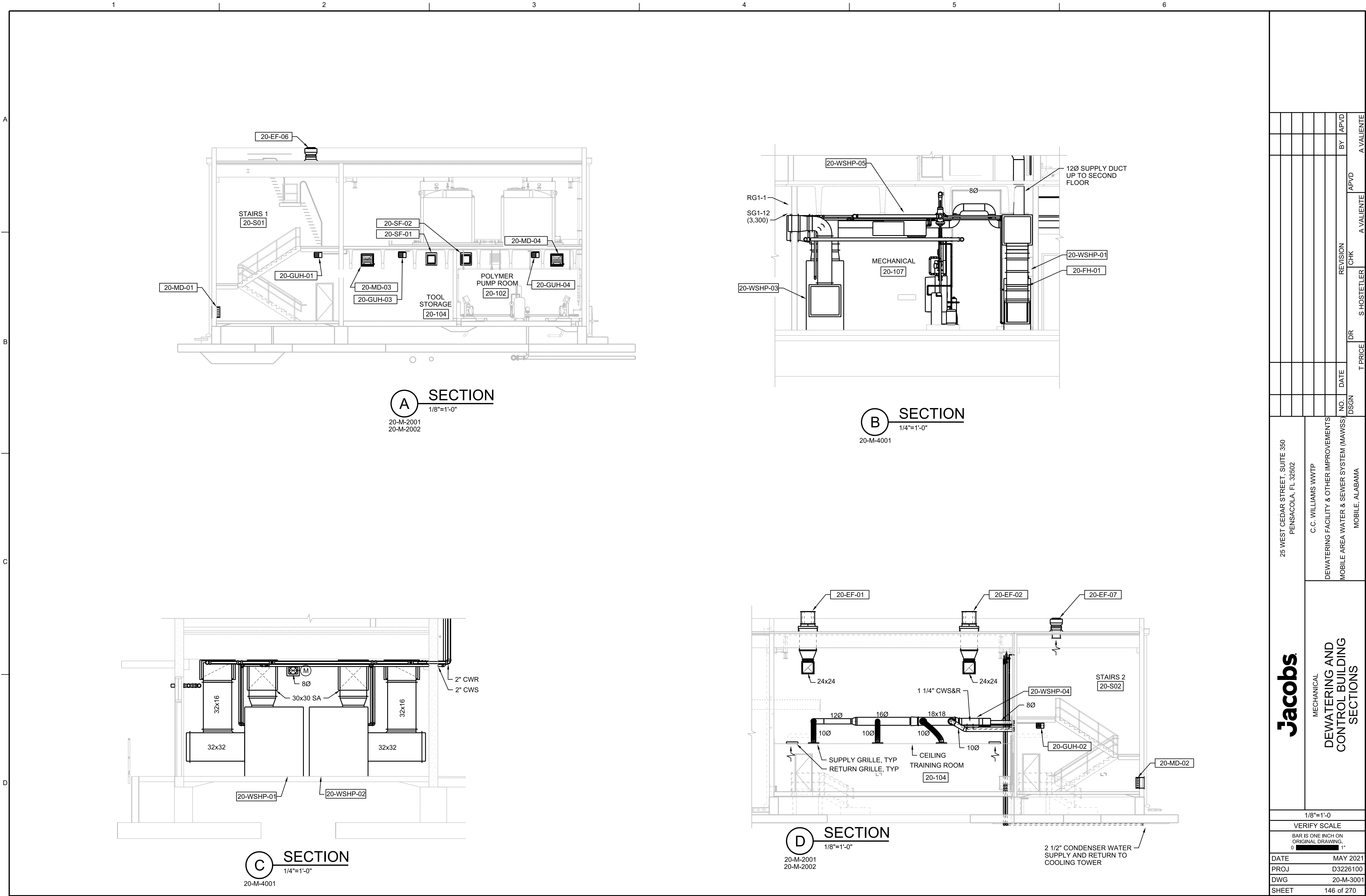
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CONTROL DAMPERS										
SYMBOL			20-MD-01	20-MD-02	20-MD-03	20-MD-04	20-MD-05	20-MD-06	20-MD-07	
SPECIFICATION TYPE			HIGH PERFORMANCE CONTROL DAMPER	HIGH PERFORMANCE CONTROL DAMPER	HIGH PERFORMANCE CONTROL DAMPER	HIGH PERFORMANCE CONTROL DAMPER	ROOM ISOLATION DAMPER	ROOM ISOLATION DAMPER	HIGH PERFORMANCE CONTROL DAMPER	
SERVES			INTAKE	INTAKE	RELIEF	RELIEF	SUPPLY	SUPPLY	INTAKE	
LOCATION			STAIR 20-SO1	STAIR 20-SO2	TOOL ROOM	POLYMER ROOM	ELEC. ROOM	SERVER ROOM	MECH ROOM	
CONSTRUCTION MATERIALS	AXLES		316 SST	316 SST	316 SST	316 SST	STEEL	PLATED STEEL	316 SST	
	BLADE		ALUM	ALUM	ALUM	ALUM	STEEL	STEEL	ALUM	
	FRAME		ALUM	ALUM	ALUM	ALUM	STEEL	STEEL	ALUM	
	SEALS	JAMB	SILICONE	SILICONE	SILICONE	SILICONE	STAINLESS	NA	SILICONE	
		BLADE	SILICONE	SILICONE	SILICONE	SILICONE	SILICONE	SILICONE	SILICONE	
PERFORMANCE	MAX. TEMP		DEG. F.	200	200	200	200	450	450	200
	MAX. PRESSURE		IN W.G.	8	8	8	8	4	4	8
	MAX. VELOCITY		FPM	4000	4000	4000	4000	2000	4000	4000
	MAX LEAKAGE @ 1 IN W.G.		CFM/SF	3	3	3	3	8 CFM @ 4" WC	8 CFM @ 4" WC	3
	ACTUAL FLOW RATE		CFM	1150	1150	500	500	200	75	1200
	ACTUAL PRESSURE LOSS		WC	0.02	0.02	0.01	0.01	0.02	0.01	0.03
	ACTUAL FACE VELOCITY		FT/MIN	216	216	125	125	590	450	300
NOMINAL DIMENSIONS	LENGTH		INCHES	32	32	24	24	8	6" ROUND	24
	HEIGHT		INCHES	24	24	24	24	8	NA	24
ACTUATOR DATA	FAILS			OPEN	OPEN	OPEN	OPEN	CLOSED	CLOSED	CLOSED
	RANGE			2 POSITION	2 POSITION	2 POSITION	2 POSITION	2 POSITION	2 POSITION	2 POSITION
	TYPE			ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
	VOLTS OR PRESS.			120	120	120	120	120	120	120
MANUFACTURER	DAMPER			GREENHECK	GREENHECK	GREENHECK	GREENHECK	RUSKIN	RUSKIN	GREENHECK
	ACTUATOR			BELIMO	BELIMO	BELIMO	BELIMO	AS REQUIRED	AS REQUIRED	BELIMO
MODEL NO.	DAMPER			ICD-45	ICD-45	ICD-45	ICD-45	FSD37	FSDR60	ICD-45
APPLICABLE REMARKS				A,B,C	A,B,C	A,B,C	A,B,C	D	D	A,B,C
ABBREVIATIONS:										
STL: GALVANIZED STEEL			316 SST: STAINLESS STEEL, TYPE 316							
ALUM: ALUMINUM			PVC: POLYVINYL CHLORIDE							
304 SST: STAINLESS STEEL, TYPE 304			EPDM: ETHYLENE PROPYLENE DIENE MONOMER							
APPLICABLE REMARKS:										
A: REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON MATERIALS AND PERFORMANCE.										
B: FLANGED STYLE FRAME										
C: PARALLEL BLADE ACTION										
D. 1-1/2 HOUR FIRE SMOKE DAMPER. UL555 LISTED. DAMPER SHALL BE FURNISHED WITH A WALL SLEEVE. WALL IS NOT A FIRE RATED WALL. DAMPER IS FOR ROOM ISOLATION ONLY.										

GAS UNIT HEATERS							
SYMBOL				20-GUH-01 & 02	20-GUH-03	20-GUH-04	
LOCATION				STAIRWELL	TOOL STORAGE	POLYMER ROOM	
TYPE				GAS, PROPELLER FAN	GAS, PROPELLER FAN	GAS, PROPELLER FAN	
AIR SIDE DATA	SUPPLY AIRFLOW		CFM		505	505	505
	THROW		FEET		25	25	25
	MOTOR	RPM		1550		1550	1550
		POWER	HP	1/15		1/15	1/15
		VOLT		115		115	115
		PH		1		1	1
	TEMPERATURE RISE		DEG F		44	44	44
GAS TRAIN DATA	FUEL TYPE			NG	NG	NG	
	GAS INPUT		MBH	30	30	30	
	GAS OUTPUT		MBH	24.6	24.6	24.6	
	SUPPLY PRESSURE		PSI	2	2	2	
UNIT ELECTRICAL DATA	MCA			3.75	3.75	3.75	
	VOLT			115	115	115	
	PH			1	1	1	
MOUNTING HEIGHT	MAXIMUM	FEET		10	10	10	
MAXIMUM DIMENSIONS	LENGTH		INCHES	18 1/2	18 1/2	18 1/2	
	WIDTH		INCHES	26 4/5	26 4/5	26 4/5	
	HEIGHT		INCHES	12 1/5	12 1/5	12 1/5	
	WEIGHT		LBS	55	55	55	
MANUFACTURER/MODEL				MODINE/HDS30	MODINE/HDS30	MODINE/HDS30	
APPLICABLE REMARKS:				A THRU I	A THRU I	A THRU I	
ABBREVIATIONS: NG: NATURAL GAS PG: PROPANE GAS NG/PG: DUAL FUEL, NATURAL AND PROPANE GAS							
REMARKS:							
A: FURNISH WITH PRESSURE REGULATOR F: VERTICAL LOUVERS							
B: FURNISH WITH WALL MOUNTED THERMOSTAT G: INLET RING							
C: WALL MOUNTED BRACKET H: CONCENTRIC ADAPTER							
D: DISCONNECT UNIT INSTALLED I: SCREENED EXHAUST							
E: TOTALLY ENCLOSED MOTOR							
F: HORIZONTAL COMBUSTION INLET/VENT TERMINAL ASSEMBLY							

HYDRONIC PUMPS					23 21 14	
SYMBOL			20-P-01	20-P-02	20-P-03	
SERVICE			CONDENSER WATER	CONDENSER WATER	BOILER PRIMARY WATER	
TYPE			INLINE	INLINE	INLINE	
PUMP DATA	CAPACITY		GPM	116	116	14
	HEAD		FT H ₂ O	60	85	7
	MAXIMUM POWER		BHP	3.07	3.07	0.03
	FLUID	TYPE		PG	PG	PG
		CONC.	%	20	20	20
	MIN. EFF.		%	58.2	58.2	-
MOTOR DATA	NPSH		FT	9.19	9.19	-
	RATED POWER		HP	5	5	1/16
	SPEED		RPM	1800	1800	1800
	VOLT			460	460	120
	PH			3	3	1
	ENCLOSURE			TEFC	TEFC	-
	INLET/OUTLET SIZE			2" / 2"	2" / 2"	3/4" / 3/4"
	IMPELLER DIAMETER (APPROX)			9.3"	9.3"	STANDARD
MAX WEIGHT		LBS	225	225	10	
MANUFACTURER			BELL & GOSSETT	BELL & GOSSETT	TACO	
MODEL NO.			2X2X9.5 e-80SC	2X2X9.5 e-80SC	0015e3	
APPLICABLE REMARKS:			A THRU F	A THRU F	G	
REMARKS:						
A: INVERTER DUTY MOTOR, VFD PROVIDED BY DIVISION 26.						
B: TEFC MOTOR ENCLOSURE.						
C: STAINLESS STEEL FITTED.						
D: SEAL METAL PARTS AND SPRING STAINLESS STEEL.						
E: FLANGE SUPPORTS.						
F: FURNISH WITH EPR/SIC/SIC SEALS RATED FOR 20% GLYCOL SERVICE.						
G: PUMP PROVIDED BY BOILER MANUFACTURER. SEE BOILER SCHEDULE. PUMP SHALL BE ECM MOTOR.						

BOILER SCHEDULE		
DESIGNATION		20-BLR-01
GENERAL	INPUT MBH	155
	OUTPUT MBH	143
	WORKING PRESSURE PSI	80
	TYPE	CONDENSING
	MINIMUM EFFICIENCY (AFUE)	95%
GAS TRAIN	FUEL SOURCE	NAT GAS
	GAS INPUT CFH	155
	BURNER TURN DOWN	10:1
	SUPPLY PRESSURE	2.0 PSI
	GAS INLET DIAMETER	3/4"
	AIR INLET DIAMETER	3"
	EXHAUST DIAMETER	3"
FLOW RATE GPM		14
FLUID		20% PG
EWT DEG F		50
LWT DEG F		70
HEAD LOSS		1.7" H2O
INLET/OUTLET SIZE		1 1/4"
MOCP AMPS		15
VOLTAGE		115
PHASE		1
WIDTH		18"
DEPTH		18"
HEIGHT		42"
WEIGHT		150 LBS
MANUFACTURER		WEIL-MCLAIN
MODEL		EVG 155
LOCATION		MECH ROOM
NOTES:		
1. PROVIDE CONCENTRIC VENT/COMBUSTION AIR KIT FOR WALL PENETRATION.		
2. FURNISH BOILER WITH A PRIMARY CIRCULATOR PUMP INTERLOCKED WITH THE OPERATION OF THE BOILER.		
4. FURNISH WITH WALL MOUNTING KIT, AND 80 PSI RELIEF VALVE.		
5. FURNISH WITH BACNET COMMUNICATION CARD.		
6. FACTORY FURNIS WITH A CIRCULATION PUMP. PUMP SCHEDULED AS PUMP 20-P-03.		

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PACKAGED COOLING TOWERS (FLUID COOLERS)

23 65 00

SYMBOL	TYPE	SERVING	NOMINAL CAPACITY MBH	PERFORMANCE DATA								FAN AND MOTOR DATA							SPRAY PUMP		BASIN HEATER DATA CAPACITY kW	MAXIMUM DIMENSIONS				MANUF AND MODEL	APPLICABLE REMARKS
				FLUID FLOW GPM	FLUID	EGT DEG. F	LGT DEG. F	EAT EAT DEG. F (WB)	MAXIMUM DRIFT LOSS PERCENT	MAXIMUM NOISE LEVEL dB(a) @ 5 FEET	MAXIMUM PRESS DRP PSI	AIRFLOW CFM	NO. FANS	# SPEEDS	MOTOR (EACH)												
															HP	ENCLOSURE	VOLT	PH									
20-CT-01	INDUCED DRAFT, CROSS FLOW, CLOSED CIRCUIT	CONDENSER WATER	404.35	85	20% PG	95	85	79.8	0.001	87	3.7	25,170	2	VFD	3	TEFC	460	3	270	1.5	7	143 3/4	53 3/4	109 3/8	7850	EVAPCO/ ATWB 4-3F12-Z	A THRU P
20-CT-02	INDUCED DRAFT, CROSS FLOW, CLOSED CIRCUIT	CONDENSER WATER	404.35	85	20% PG	95	85	79.8	0.001	87	3.7	25,170	2	VFD	3	TEFC	460	3	270	1.5	7	143 3/4	53 3/4	109 3/8	7850	EVAPCO/ ATWB 4-3F12-Z	A THRU P

REMARKS:

A: TOWER FAN TO BE CONTROLLED BY AN ADJUSTABLE FREQUENCY DRIVE.
B: LOCAL DISCONNECT: FACTORY INSTALLED, NEMA TYPE 4X
C: FURNISH WITH INSULATED DISCHARGE DAMPER FOR COLD WEATHER.
D: 304 STAINLESS STEEL UPPER
E: 304 STAINLESS STEEL COLD WATER BASIN
F: VIBRATION SWITCH

G: INVERTER DUTY RATED, PREMIUM EFFICIENT MOTORS.
INVERTER READY MOTOR SHALL NOT BE PERMITTED.
H: CROSSCOOL COIL
I: ALUMINUM LADDER
J: FAN MOTOR SPACE HEATERS
K: STAINLESS STEEL FAN SHAFT

L: PROVIDE BASIN HEATER WITH TEMPERATURE CONTROLLER.
M: MAKE-UP WATER FLOAT VALVE ASSEMBLY
N: COLD WATER PUMP PER MANUFACTURER. SET AT REQUIRED CAPACITY RECOMMENDED PER MANUFACTURER TO ACHIEVE OPTIMUM CAPACITY.
O: FACTORY INSTALLED SMART SHIELD WATER TREATMENT (MODEL: FMF-6) AND PANEL WITH FACTORY STARTUP AND 1 YEAR FACTORY WATER TREATMENT SERVICE PROGRAM
P: SINGLE POINT ELECTRICAL CONNECTION IN A NEMA 4X PANEL. PANEL SHALL INCLUDE A VFD FOR THE TOWER FAN, CONTACTORS FOR THE CIRCULATION PUMP, CONTROLS AND CONTACTORS FOR THE BASIN HEATERS, WIRED VIBRATION SWITCH AND ALL NECESSARY CONTROL ACCESSORS TO MAKE THE TOWER A COMPLETE PACKAGE.

Please contact George @ Nelson & Company for details at (904) 807-9899

AIR OUTLETS AND INLETS

23 37 00

TAG	TYPE	DIMENSIONAL DATA						AIR DISTRIBUTION PATTERN	CONSTRUCTION		PERFORMANCE				ACCESSORIES		MANUFACTURER		APPLICABLE REMARKS	
		FACE			NECK						MAX NOISE NC	AIRFLOW		MAX THROW @ 50 FPM FT						MAX TOTAL PRESSURE IN WG
		W INCH	L INCH	DIA INCH	W INCH	L INCH	DIA INCH					MIN CFM	MAX CFM							
CD1-1	PERFORATED FACE DIFFUSER	24	24	—	—	—	10	4-WAY	ALUM	WHITE	20		275	9	0.09	NO	NO	TITUS	PAS-AA	A,B,E
CD1-2	PERFORATED FACE DIFFUSER	24	24	—	—	—	12	4-WAY	ALUM	WHITE	30		475	11	0.08	NO	NO	TITUS	PAS-AA	A,B,E
CD1-3	PERFORATED FACE DIFFUSER	24	24	—	—	—	10	4-WAY	ALUM	WHITE	26	165	310	15	0.08	NO	NO	TITUS	PAS-AA	A,B,E
CD1-4	PERFORATED FACE DIFFUSER	24	24	—	—	—	8	2-WAY	ALUM	WHITE	15	0	100	10	0.08	NO	YES	TITUS	PAS-AA	A,B,E
CD1-5	NOT USED																			
CD1-6	PERFORATED FACE DIFFUSER	24	24	—	—	—	10	2-WAY	ALUM	WHITE	26	0	300	21	0.1	NO	YES	TITUS	PAS-AA	A,B,E
CD1-7	PERFORATED FACE DIFFUSER	24	24	—	—	—	10	2-WAY	ALUM	WHITE	21	0	250	13	0.08	NO	NO	TITUS	PAS-AA	A,B,E
CD1-8	PERFORATED FACE DIFFUSER	24	24	—	—	—	8	4-WAY	ALUM	WHITE	19	0	190	11	0.1	NO	YES	TITUS	PAS-AA	A,B,E
CD1-9	NOT USED																			
CD1-10	PERFORATED FACE DIFFUSER	24	24	—	—	—	6	2-WAY	ALUM	WHITE	10	0	50	5	0.02	NO	YES	TITUS	PAS-AA	A,B,E
SG1-1	SUPPLY GRILLE	10	8	—	8	6	—	2-WAY	ALUM	ALUM	28	0	200	28	0.1	YES	NO	TITUS	300RL-AL	A,C,D
SG1-2	SUPPLY GRILLE	34	22	—	32	20	—	2-WAY	ALUM	ALUM	45	0	3,300	49	0.2	NO	NO	TITUS	300RL-AL	A,C,D
SG1-3	SUPPLY GRILLE	12	12	—	10	10	—	2-WAY	ALUM	ALUM	45	170	333	27	0.08	NO	NO	TITUS	300RL-AL	A,C,D
SG1-4	SUPPLY GRILLE	32	32	—	30	30	—	2-WAY	ALUM	ALUM	35	2084	4,167	49	0.1	YES	NO	TITUS	300RL-AL	A,C,D
EG1	EXHAUST GRILLE	8	8	—	6	6	—	EXHAUST	ALUM	WHITE	19	0	50	—	0.075	NO	NO	TITUS	350FL-AA	A,D
EG2	EXHAUST GRILLE	8	6	—	6	4	—	EXHAUST	ALUM	WHITE	24	0	100	—	0.1	YES	NO	TITUS	350FL-AA	A,C,D
RG1-1	RETURN GRILLE	38	18	—	36	16	—	RETURN	ALUM	ALUM	40	0	3,300	—	0.2	YES	NO	TITUS	350FL-AA	A,C,D
RG1-2	RETURN GRILLE	24	12	—	22	10	—	RETURN	ALUM	ALUM	20	0	VAR	—	0.08	YES	NO	TITUS	350FL-AA	A,C,D

REMARKS:

A: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
B: SQUARE TO ROUND TRANSITION BY OTHERS
C: 45 DEGREES THROW PATTERN
D: 3/4" BLADE SPACING
E: CONTRACTOR SHALL PROVIDE BALANCING DAMPER IN DUCT BRANCH
F: 2" BLADE SPACING
G: 22.5 DEGREES THROW PATTERN
H: 0 DEGREE PATTERN

ABBREVIATIONS:
ALUM: ALUMINUM
ANOD: ANODIZED
IN WG: INCHES WATER GAUGE
SST: STAINLESS STEEL
DWG: REFER DRAWINGS
N/A: NOT APPLICABLE

PACKAGED INDOOR WATER SOURCE HEAT PUMP UNITS

23 81 00

SYMBOL	LOCATION	FAN DATA		COMPRESSOR DATA			DX COOLING DATA						DX HEATING DATA			SOURCE FLUID DATA					FAN		UNIT ELECTRICAL DATA					DIMENSIONS			MANUFACTURER	MODEL	APPLICABLE NOTES		
		SUPPLY AIR CFM	OUTSIDE AIR CFM	NO.	STEPS	LOCKED ROTOR AMPS	TOTAL MBH	SENS. MBH	EAT DEG. F		LAT DEG. F		EWT DEG. F	TOTAL REQUIRED MBH	EAT DEG. F	EWT DEG. F	HEAT ABSRPTN MBH	HEAT RJCTN MBH	FLUID TYPE	FLOW GPM	MAX. PD FT. H2O	RPM	ESP	#CONN.	VOLT	PH	MCA	MOCAP	INCHES					MAX WEIGHT LBS	
									DB	WB	DB	WB																							
									L	W	H																								
20-WSHP-01	AIR PRESSURIZATION UNIT	1,120	1,145	1	NOTE 1		84.0	46.5	94.0	77.0	70.0	59.0	85.0	107	30.0	60	90.6	111.0	20% PG	12	10		1.0"	1	460	3	16.0	25.0	42"	66"	78"	725.0	AAON	SB-006	A THRU D AND F THRU L
20-WSHP-02 & 03	ELECTRICAL ROOM	3,300	150 CFM EA	1	NOTE 1		122.0	94.0	76.0	63.0	50.0	49.0	85.0	10	70.0	60	124.2 EA	153.9 EA	20% PG	27 EA	10	1760	0.75"	1	460	3	26.0	40.0	42"	66"	78"	1100.0	AAON	SB-010	A THRU L
20-WSHP-04	TRAINING ROOM	1,990	270	2	1	38	49.0	40.0	77.0	64.0	54.0	50.0	85.0	25	70.0	60	68.0	83.0	20% PG	15	10	835	0.75"	1	460	3	14.7	20.0	85"	36"	21"	586.0	CLIMATEMASTER	TC-072	A THRU K
20-WSHP-05	MECHANICAL/COMMON	800	50	1	1	44	26.9	16.4	77.0	65.0	56.0	52.0	85.0	30	70.0	60	24.5	34.5	20% PG	6.25	10	MED	0.7"	1	460	3	6.9	15.0	48"	22"	17"	195.0	CLIMATEMASTER	TR-030	A THRU K
20-WSHP-06	ELECTRICAL/STORAGE/CORRIDOR	1,300	150	1	1	44	36.6	36.6	79.0	60.0	55.0	45.0	85.0	5	70.0	60	32.0	47.5	20% PG	8.8	10	HIGH	0.4"	1	460	3	9.1	15.0	53"	22"	21"	230.0	CLIMATEMASTER	TR-042	A THRU D AND F THRU K
20-WSHP-07	OFFICE	310	75	1	1	32	10.6	6.7	77.0	62.0	57.0	51.0	85.0	2	70.0	60	10.5	13.7	20% PG	2.5	10	MED	0.5"	1	208	1	7.8	15.0	40"	22.5"	12"	121.0	CLIMATEMASTER	TR-012	A THRU K
20-WSHP-08	SERVER ROOM	500	75	1	1	33	16.8	12.5	79.0	62.0	56.0	50.0	85.0	2	70.0	60	15.4	21.4	20% PG	3.8	10	MED	0.5"	1	208	1	10.2	15.0	48"	22.5"	18"	170.0	CLIMATEMASTER	TR-018	A THRU K
20-WSHP-09	CONTROL ROOM	950	75	1	1	38	30.5	21.2	77.0	62.0	56.0	49.0	85.0	4	70.0	60	30.5	39.9	20% PG	7.5	10	LOW	0.5"	1	460	3	8.5	15.0	53"	22.5"	21"	215.0	CLIMATEMASTER	TR-036	A THRU K
20-WSHP-10	BREAK ROOM	550	75	1	1	33	16.6	12.0	77.0	62.0	55.0	48.0	85.0	3	70.0	60	15.1	21.2	20% PG	3.8	10	MED	0.6"	1	208	1	11.9	15.0	48"	22.5"	18"	168.0	CLIMATEMASTER	TR-018	A THRU K
20-WSHP-11	RESTROOMS/LOCKER/S HOWER/CORR	300	75	1	1	32	9.0	9.0	77.0	61.0	52.0	45.0	85.0	3	70.0	60	10.3	10.3	20% PG	2.5	10	MED	0.6"	1	208	1	5.6	15.0	40"	22.5"	12"	121.0	CLIMATEMASTER	TR-012	A THRU K

NOTES:

A: FURNISH WITH FACTORY THERMOSTAT AND HUMIDITY SENSOR.
B: MOTOR STARTER PROVIDED BY UNIT MANUFACTURER
C: DISCONNECT PER DIVISION 26 ELECTRICAL
D: FURNISH WITH A BACNET COMMUNICATION CARD

E: TWO WAY SOLENOID WATER VALVE BY UNIT MANUFACTURER
F: SCROLL COMPRESSOR
G: NOT USED
H: FURNISH WITH 18" UL HOSE KIT, ISOLATION BALL VALVES, INTEGRAL AUTOMATIC FLOW CONTROL VALVE WITH 4-50 PSID.

I: PRESSURE/TEMPERATURE PORTS
J: PROVIDE FACTORY DIP APPLIED BRONZ-GLOW'S HUSKY COIL CORROSION PROTECTING COAT FOR COIL AND ALL ASSOCIATED PIPING.
K. REFER TO DRAWING 20-M-7002 AND SPECIFICATIONS FOR MINIMUM POINTS TO CONTROL.
L. FURNISH WITH A FACTORY NON-FUSED DISCONNECT.

Please contact George @ Nelson & Company for details at (904) 807-9899

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

MECHANICAL

DEWATERING AND CONTROL BUILDING

SCHEDULES

NTS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 20-M-6003

SHEET 152 of 270

ALL WORK OF THIS SHEET CONCERNING CHLORINE AND SO2 BUILDING IS INCLUDED IN ADDITIVE ALTERNATE #1 UNLESS OTHERWISE NOTED.

SPWURL

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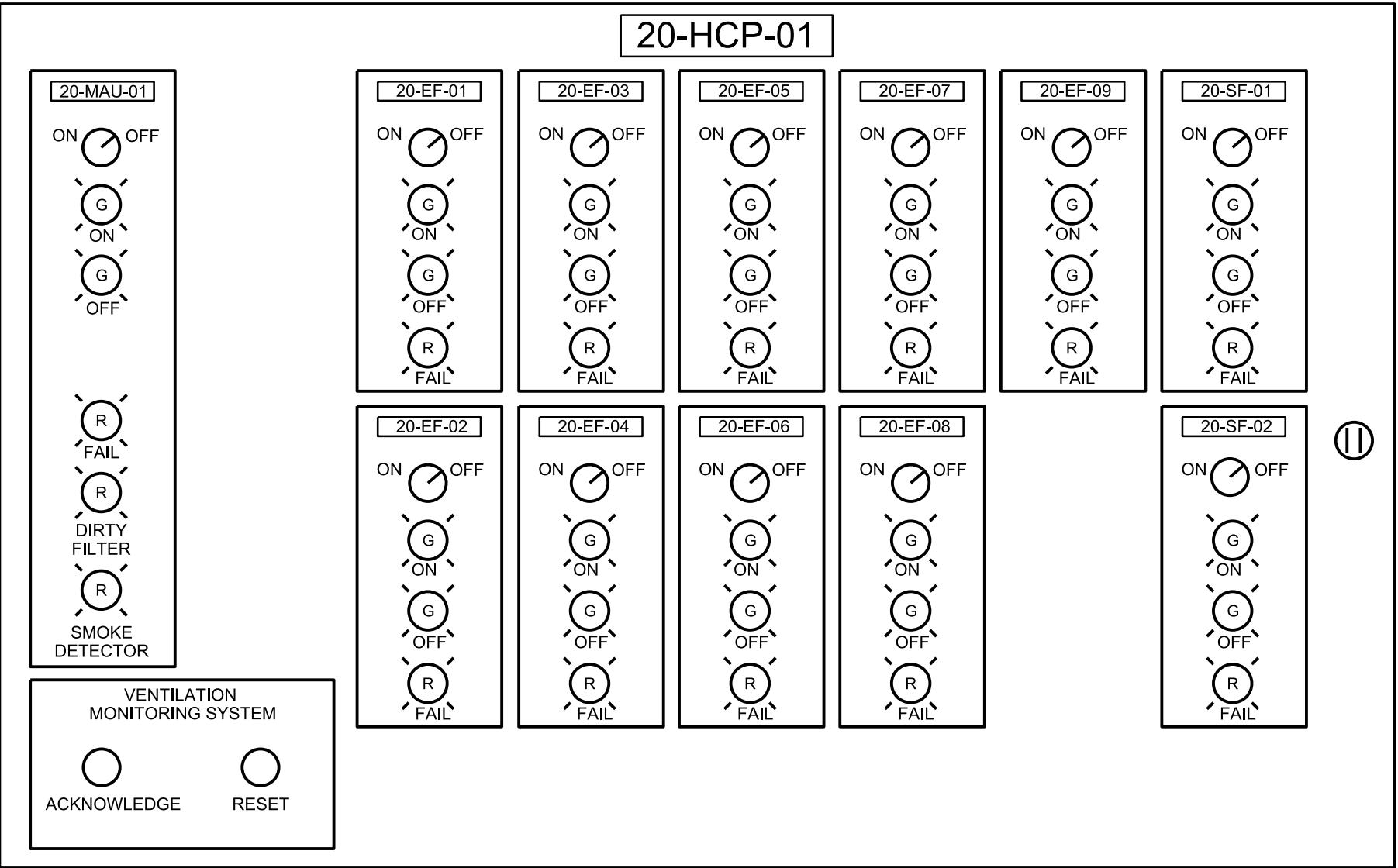
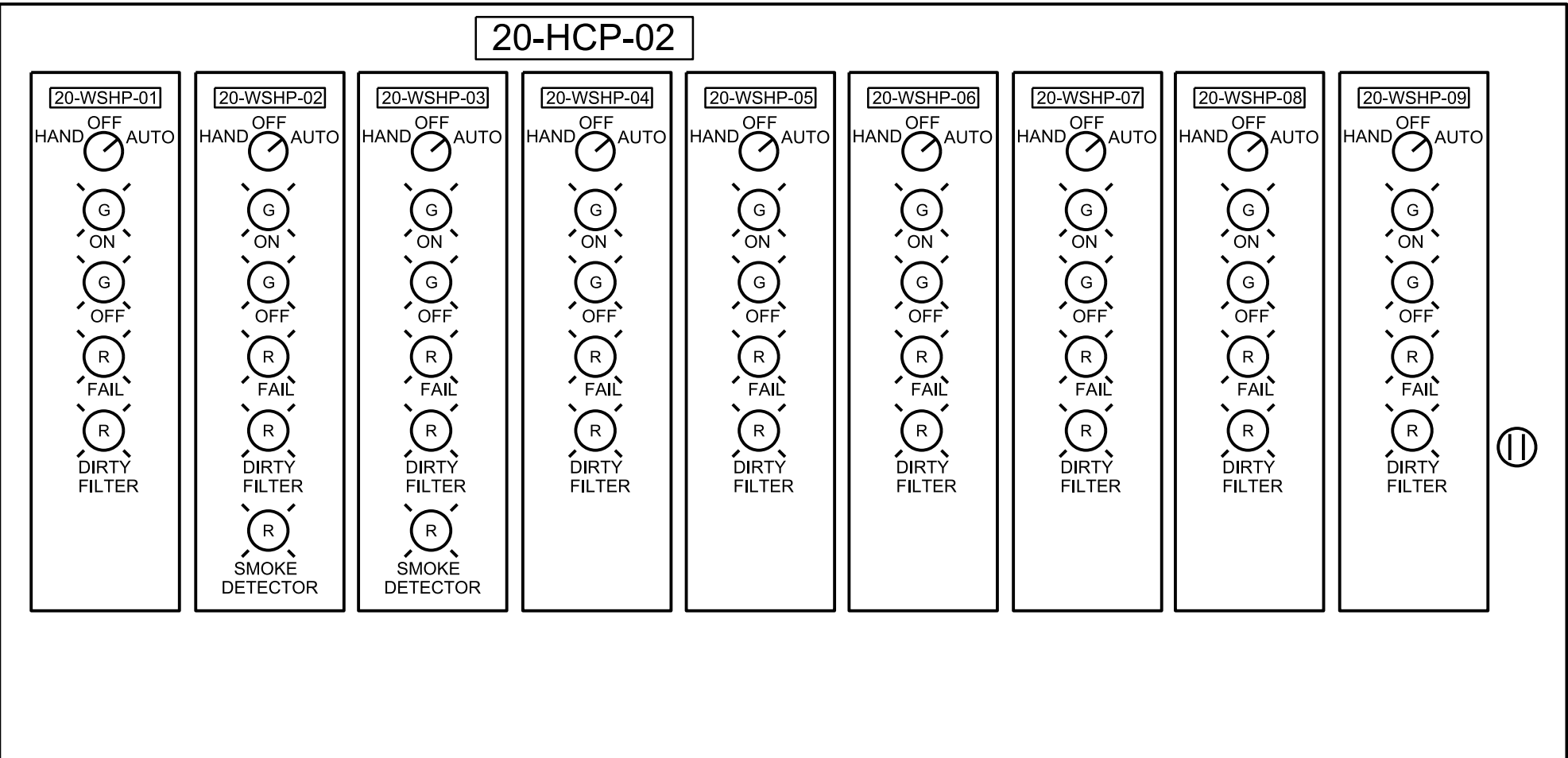
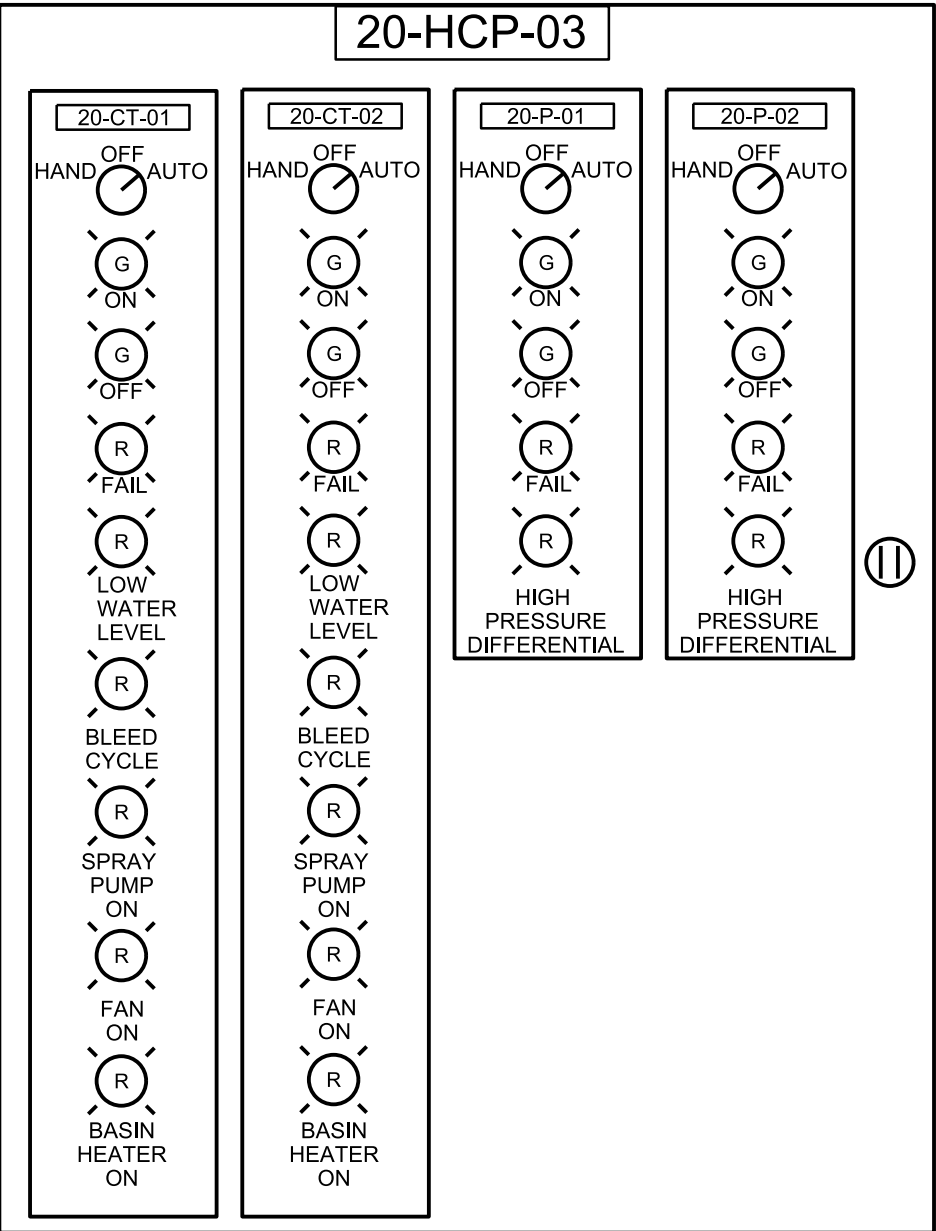
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PLOT DATE: 5/27/2021

PLOT TIME: 7:16:23 AM

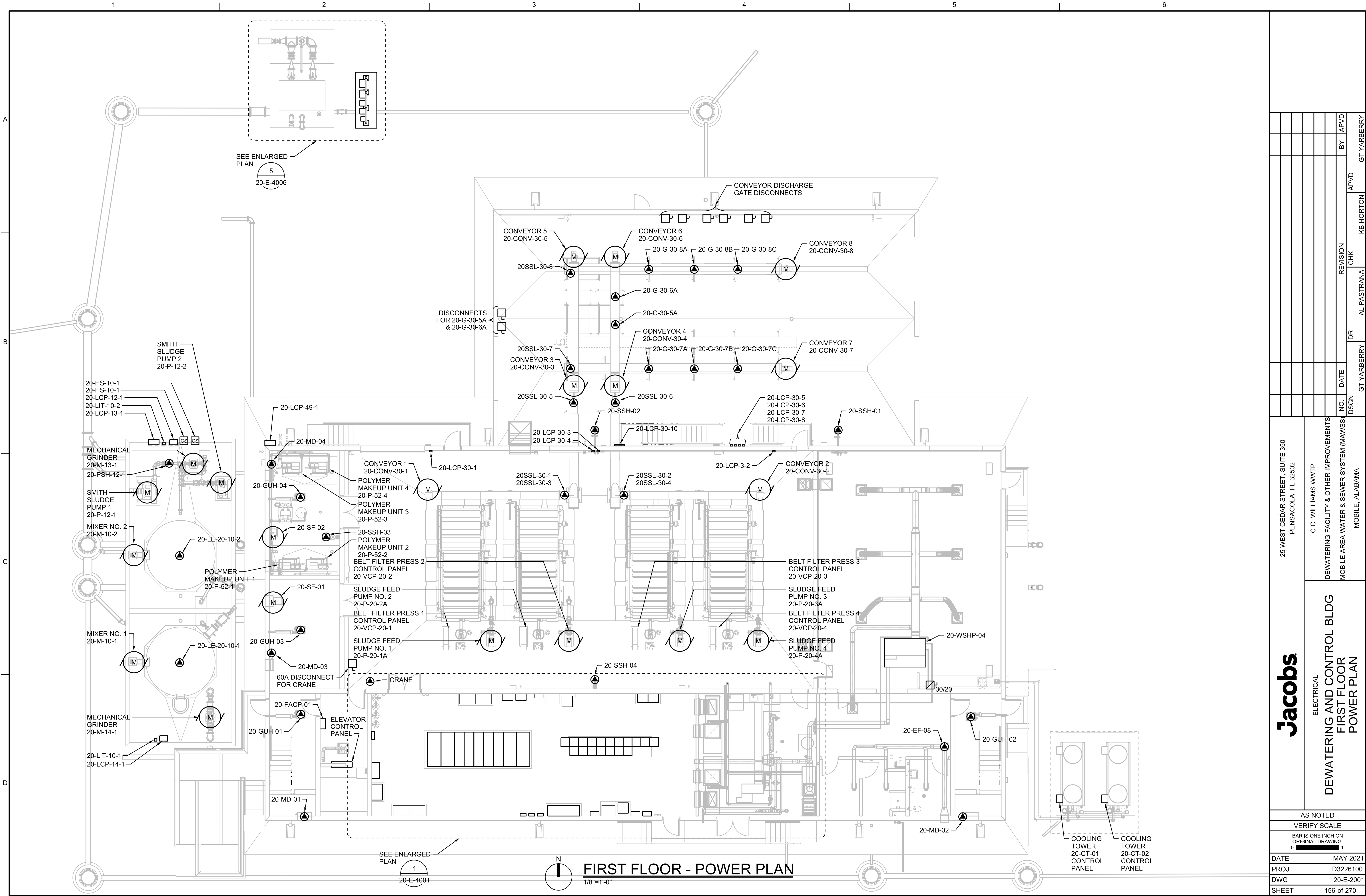
CONFORMED DOCUMENTS

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CONTROL PANEL FACE DESIGN

<div>Jacobs</div> <div>MECHANICAL</div> <div>DEWATERING AND CONTROL BUILDING</div> <div>CONTROL PANELS</div> <div>FACE DESIGN</div>		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS		MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA		NO. DATE		REVISION		S HOSTETTLER CHK		A VALIENTE APVD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

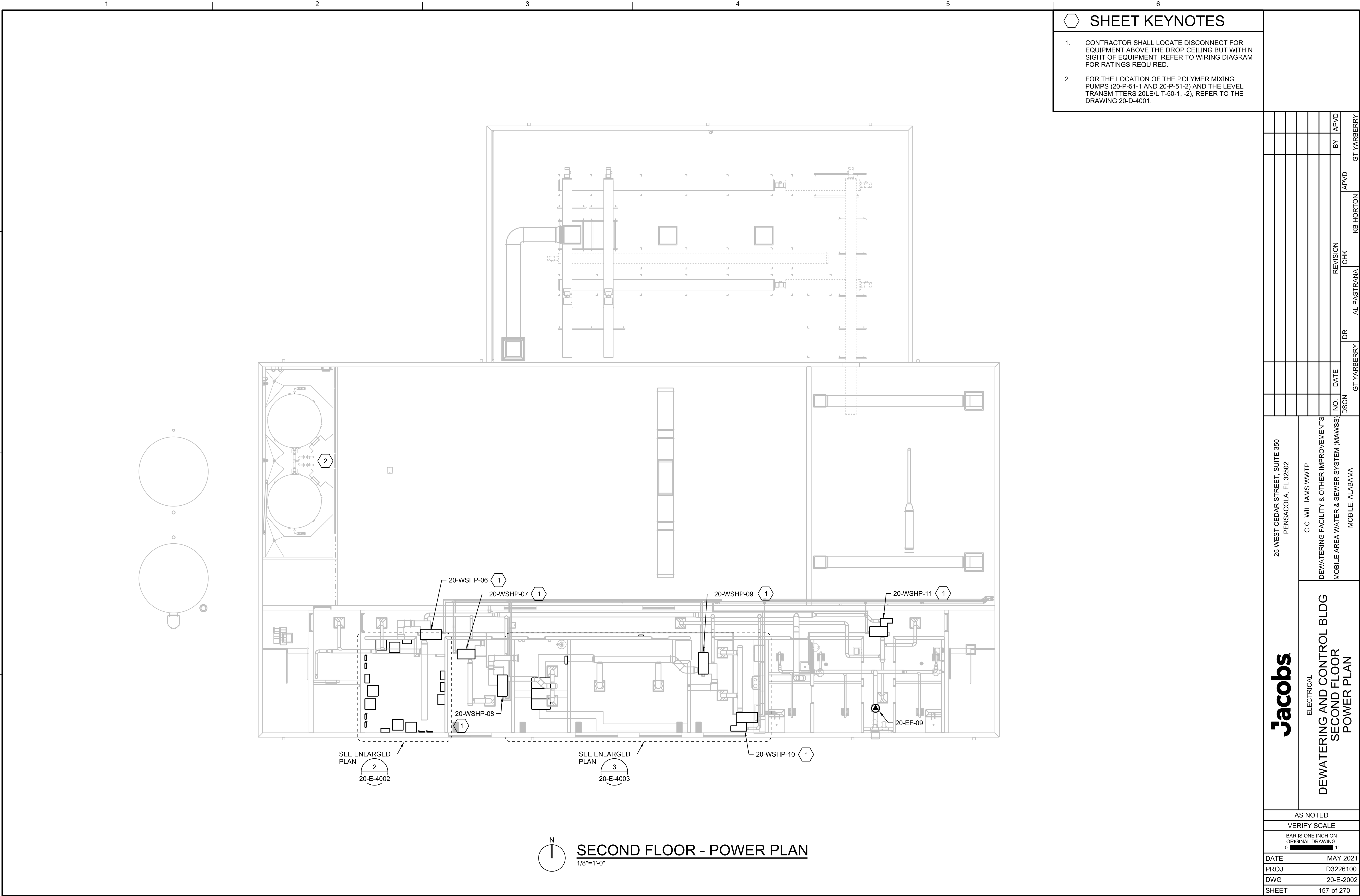
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

JACOBS
ELECTRICAL
**DEWATERING AND CONTROL BLDG
FIRST FLOOR
POWER PLAN**

AS NOTED
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
DATE MAY 2021
PROJ D3226100
DWG 20-E-2001
SHEET 156 of 270


CONFORMED DOCUMENTS

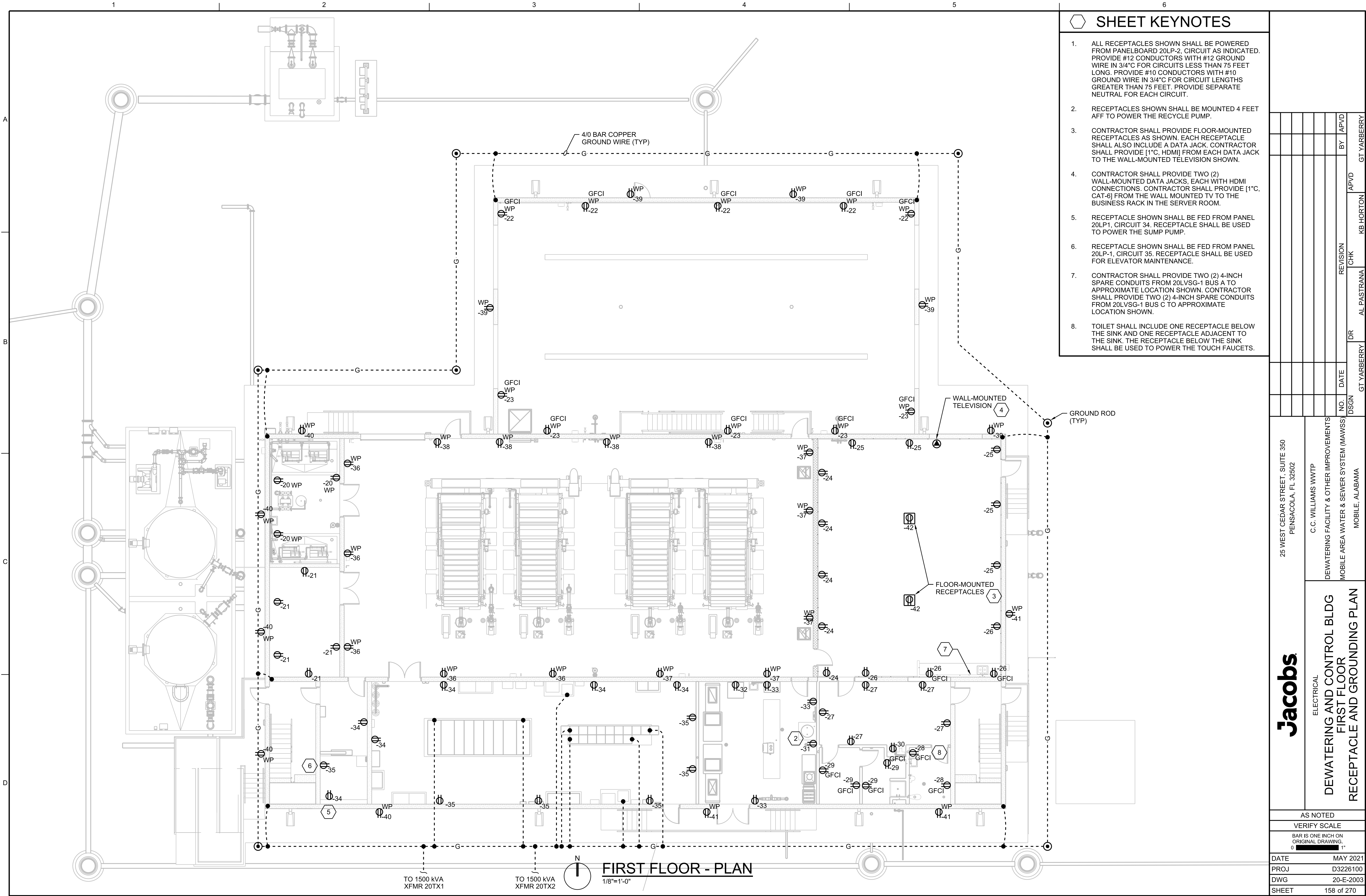
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SHEET KEYNOTES

- 1. CONTRACTOR SHALL LOCATE DISCONNECT FOR EQUIPMENT ABOVE THE DROP CEILING BUT WITHIN SIGHT OF EQUIPMENT. REFER TO WIRING DIAGRAM FOR RATINGS REQUIRED.
- 2. FOR THE LOCATION OF THE POLYMER MIXING PUMPS (20-P-51-1 AND 20-P-51-2) AND THE LEVEL TRANSMITTERS 20LE/LIT-50-1, -2), REFER TO THE DRAWING 20-D-4001.

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAVSS) MOBILE, ALABAMA	ELECTRICAL DEWATERING AND CONTROL BLDG SECOND FLOOR POWER PLAN	AS NOTED	
			VERIFY SCALE	
0  1"			DATE MAY 2021	
PROJ D3226100				
DWG 20-E-2002				
SHEET 157 of 270				



- SHEET KEYNOTES
1.

ALL RECEPTACLES SHOWN SHALL BE POWERED FROM PANELBOARD 20LP-2. CIRCUIT AS INDICATED. PROVIDE #12 CONDUCTORS WITH #12 GROUND WIRE IN 3/4"C FOR CIRCUITS LESS THAN 75 FEET LONG. PROVIDE #10 CONDUCTORS WITH #10 GROUND WIRE IN 3/4"C FOR CIRCUIT LENGTHS GREATER THAN 75 FEET. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
2.

RECEPTACLES SHOWN SHALL BE MOUNTED 4 FEET AFF TO POWER THE RECYCLE PUMP.
3.

CONTRACTOR SHALL PROVIDE FLOOR-MOUNTED RECEPTACLES AS SHOWN. EACH RECEPTACLE SHALL ALSO INCLUDE A DATA JACK. CONTRACTOR SHALL PROVIDE [1"C, HDMI] FROM EACH DATA JACK TO THE WALL-MOUNTED TELEVISION SHOWN.
4.

CONTRACTOR SHALL PROVIDE TWO (2) WALL-MOUNTED DATA JACKS, EACH WITH HDMI CONNECTIONS. CONTRACTOR SHALL PROVIDE [1"C, CAT-6] FROM THE WALL MOUNTED TV TO THE BUSINESS RACK IN THE SERVER ROOM.
5.

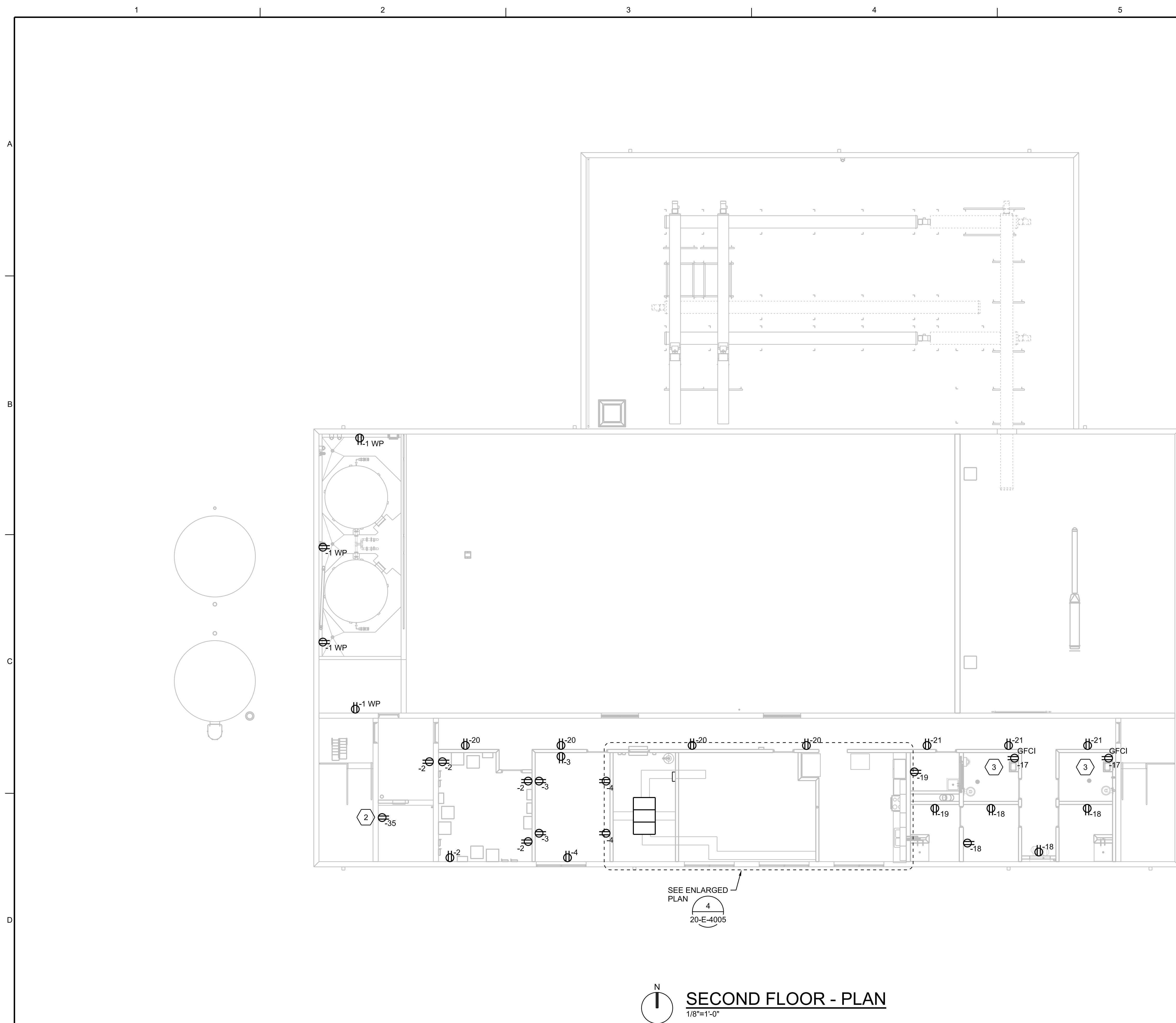
RECEPTACLE SHOWN SHALL BE FED FROM PANEL 20LP1, CIRCUIT 34. RECEPTACLE SHALL BE USED TO POWER THE SUMP PUMP.
6.

RECEPTACLE SHOWN SHALL BE FED FROM PANEL 20LP-1, CIRCUIT 35. RECEPTACLE SHALL BE USED FOR ELEVATOR MAINTENANCE.
7.

CONTRACTOR SHALL PROVIDE TWO (2) 4-INCH SPARE CONDUITS FROM 20LVSG-1 BUS A TO APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL PROVIDE TWO (2) 4-INCH SPARE CONDUITS FROM 20LVSG-1 BUS C TO APPROXIMATE LOCATION SHOWN.
8.

TOILET SHALL INCLUDE ONE RECEPTACLE BELOW THE SINK AND ONE RECEPTACLE ADJACENT TO THE SINK. THE RECEPTACLE BELOW THE SINK SHALL BE USED TO POWER THE TOUCH FAUCETS.

<div><div><div>Jacobs</div><div>ELECTRICAL</div><div>DEWATERING AND CONTROL BLDG FIRST FLOOR</div><div>RECEPTACLE AND GROUNDING PLAN</div></div><div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div><div>C.C. WILLIAMS WWTP</div><div>DEWATERING FACILITY & OTHER IMPROVEMENTS</div><div>MOBILE AREA WATER & SEWER SYSTEM (MAWSS)</div><div>MOBILE, ALABAMA</div></div>																			



GENERAL SHEET NOTES

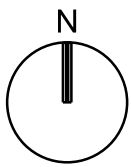
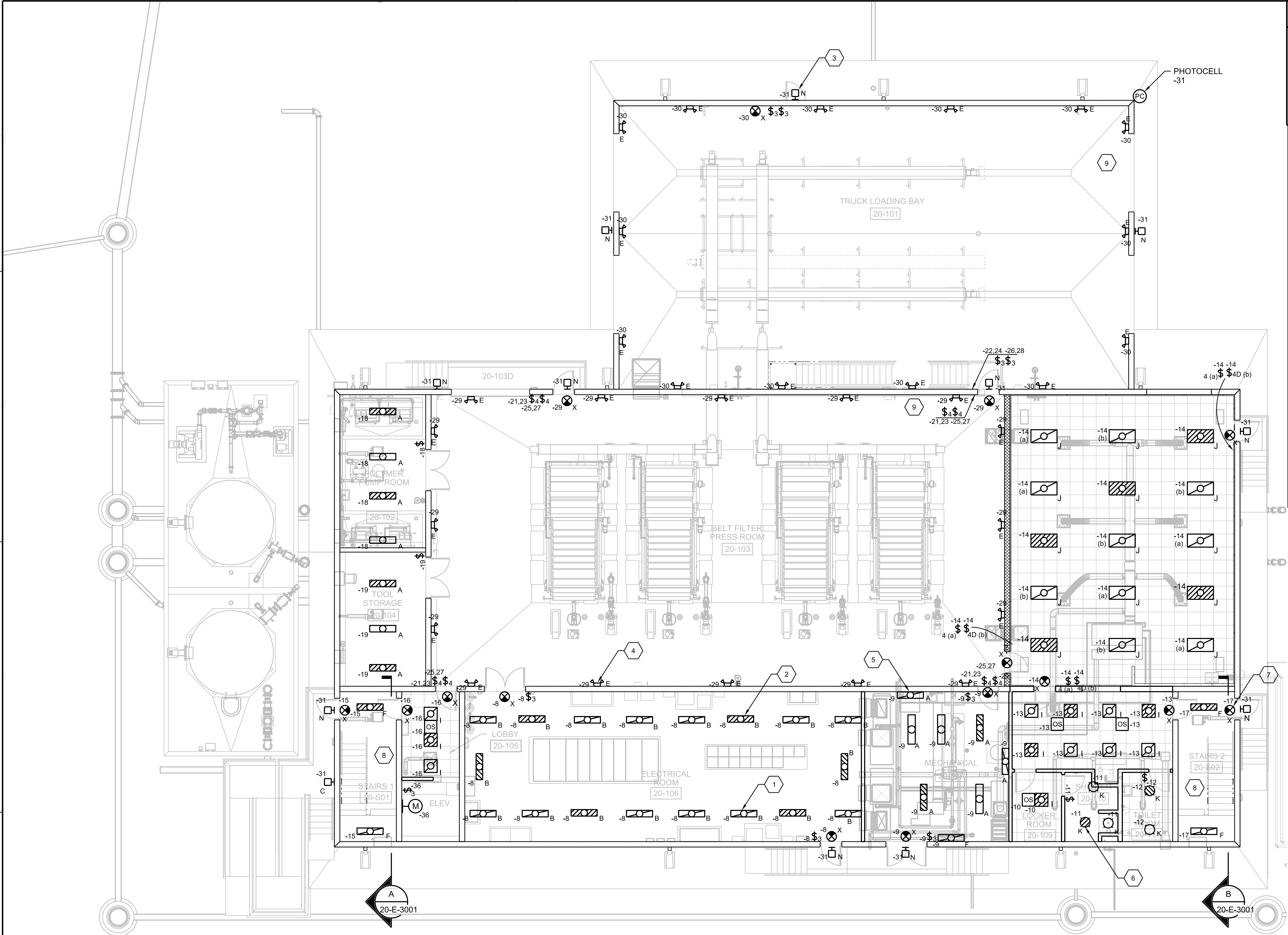
1. ALL RECEPTACLES SHOWN SHALL BE POWERED FROM PANELBOARD 20LP-5, CIRCUIT AS INDICATED. PROVIDE #12 CONDUCTORS WITH #12 GROUND. WIRE IN 3/4" FOR CIRCUITS LESS THAN 75 FEET. PROVIDE #10 CONDUCTORS WITH #10 GROUND WIRE IN 3/4" FOR CIRCUITS GREATER THAN 75 FEET. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
2. RECEPTACLE SHOWN SHALL BE FED FROM PANEL 20LP-1, CIRCUIT AS INDICATED. RECEPTACLE SHALL BE USED FOR ELEVATOR MAINTENANCE.
3. TOILET SHALL INCLUDE ONE RECEPTACLE BELOW THE SINK AND ONE RECEPTACLE ADJACENT TO THE SINK. THE RECEPTACLE BELOW THE SINK SHALL BE USED TO POWER THE TOUCH FAUCETS.

<div><div>Jacobs</div><div>ELECTRICAL</div><div>DEWATERING AND CONTROL BLDG SECOND FLOOR RECEPTACLE AND GROUNDING PLAN</div></div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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DATE	BY	REVISION	DESCRIPTION
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1	0	4	CONFIRMED DOCUMENTS
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FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"

GENERAL NOTES

1. LIGHTS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL BOARD 20LP-1, CIRCUITS AS INDICATED. CONTRACTOR SHALL PROVIDE 3/4"C, #12 CONDUCTORS WITH #12 GROUND WIRE. FOR CIRCUIT LENGTHS LESS THAN 75 FEET CONTRACTOR SHALL PROVIDE 3/4"C, #10 CONDUCTORS WITH #10 GROUND WIRE. FOR CIRCUIT LENGTHS GREATER THAN 75 FEET PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.

SHEET KEYNOTES

1. LIGHT FIXTURE TYPE "A", MOUNTING HEIGHT 11'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
2. LIGHT FIXTURE TYPE "B", MOUNTING HEIGHT 11'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
3. LIGHT FIXTURE TYPE "C" WITH EMERGENCY BATTERY PACK MOUNTED ABOVE DOOR, MOUNTING HEIGHT OF OTHER TYPE "C" LIGHT FIXTURE SHALL MATCH WITH THE ONES ABOVE DOOR
4. EMERGENCY LIGHT FIXTURE TYPE "E", MOUNTING HEIGHT 7'-6" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
5. LIGHT FIXTURE TYPE "F" WALL MONTED, MOUNTING HEIGHT 8'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
6. LIGHT FIXTURE TYPE "K", MOUNTING HEIGHT 9'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
7. INSTALL LIGHT FIXTURE TYPE "X" ABOVE DOOR
8. STAIR 1 AND STAIR 2 LIGHT FIXTURE MOUNTING HEIGHT REFER TO DRAWING 20-E-3001 - ELECTRICAL DEWATERING AND CONTROL BUILDING SECTIONS
9. LIGHTING FIXTURE ARRANGEMENT REFER TO DRAWING 20-E-2006 DEWATERING AND CONTROL BLDG SECOND FLOOR LIGHTING PLAN

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

Jacobs

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

ELECTRICAL
DEWATERING AND CONTROL BLDG
FIRST FLOOR
LIGHTING PLAN

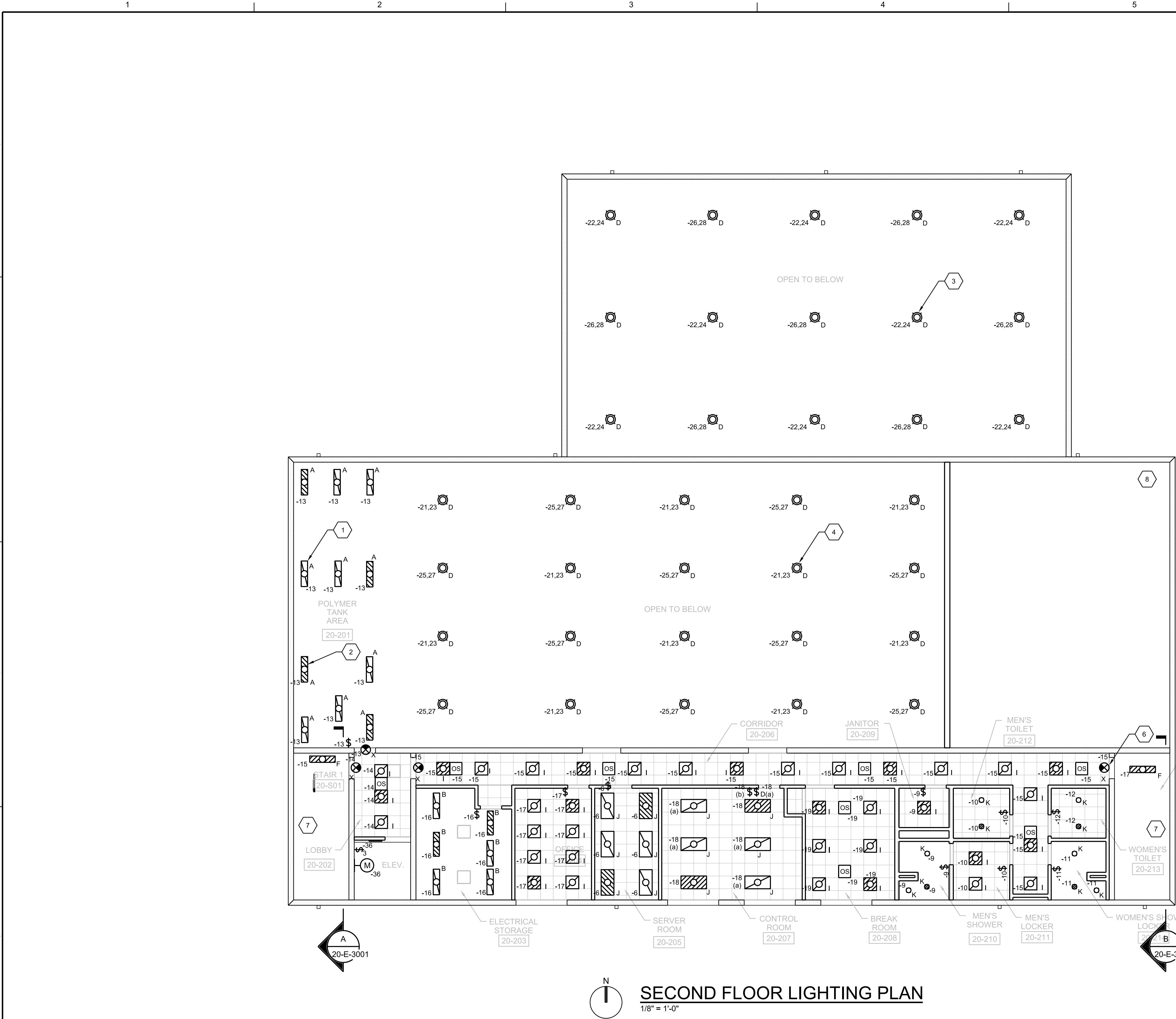
DATE	MAY 2021
PROJ	D3226100
DWG	20-E-2005
SHEET	160 of 270

CONFORMED DOCUMENTS

GT YARBERRY
DIGN
NO. DATE
DR
A PASTRANA
CHK
REVISION
APVD
BY
GT YARBERRY

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GENERAL NOTES

- LIGHTS SHOWN ON THIS DRAWING SHALL BE FED FROM PANELBOARD 20LP-4, CIRCUITS AS INDICATED. CONTRACTOR SHALL PROVIDE 3/4"C, #12 CONDUCTORS WITH #12 GROUND WIRE. FOR CIRCUIT LENGTHS LESS THAN 75 FEET CONTRACTOR SHALL PROVIDE 3/4"C, #10 CONDUCTORS WITH #10 GROUND WIRE. FOR CIRCUIT LENGTHS GREATER THAN 75 FEET PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
- STAIR LIGHT FIXTURES SHALL BE FED FROM PANELBOARD 20PL-1

SHEET KEYNOTES

- LIGHT FIXTURE TYPE "A", MOUNTING HEIGHT 13'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
- LIGHT FIXTURE TYPE "B", MOUNTING HEIGHT 13'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
- LIGHT FIXTURE TYPE "D" IN TRUCK LOADING BAY, MOUNTING HEIGHT 30'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
- LIGHT FIXTURE TYPE "D" IN BELT FILTER PRESS ROOM, MOUNTING HEIGHT 27'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
- LIGHT FIXTURE TYPE "K", MOUNTING HEIGHT 9'-0" FROM FINISHED FLOOR, PROVIDE MOUNTING HARDWARE AS REQUIRED
- INSTALL LIGHT FIXTURE TYPE "X" ABOVE DOOR
- STAIR 1 AND STAIR 2 LIGHT FIXTURE MOUNTING HEIGHT REFER TO DRAWING 20-E-3001 - ELECTRICAL DEWATERING AND CONTROL BUILDING SECTIONS. LIGHTS IN STAIRWAY SHALL BE UNSWITCHED.
- LIGHTING FIXTURE ARRANGEMENT REFER TO DRAWING 20-E-2005 DEWATERING AND CONTROL BLDG FIRST FLOOR LIGHTING PLAN

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

JACOBS

ELECTRICAL

DEWATERING AND CONTROL BLDG
SECOND FLOOR
LIGHTING PLAN

AS NOTED

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

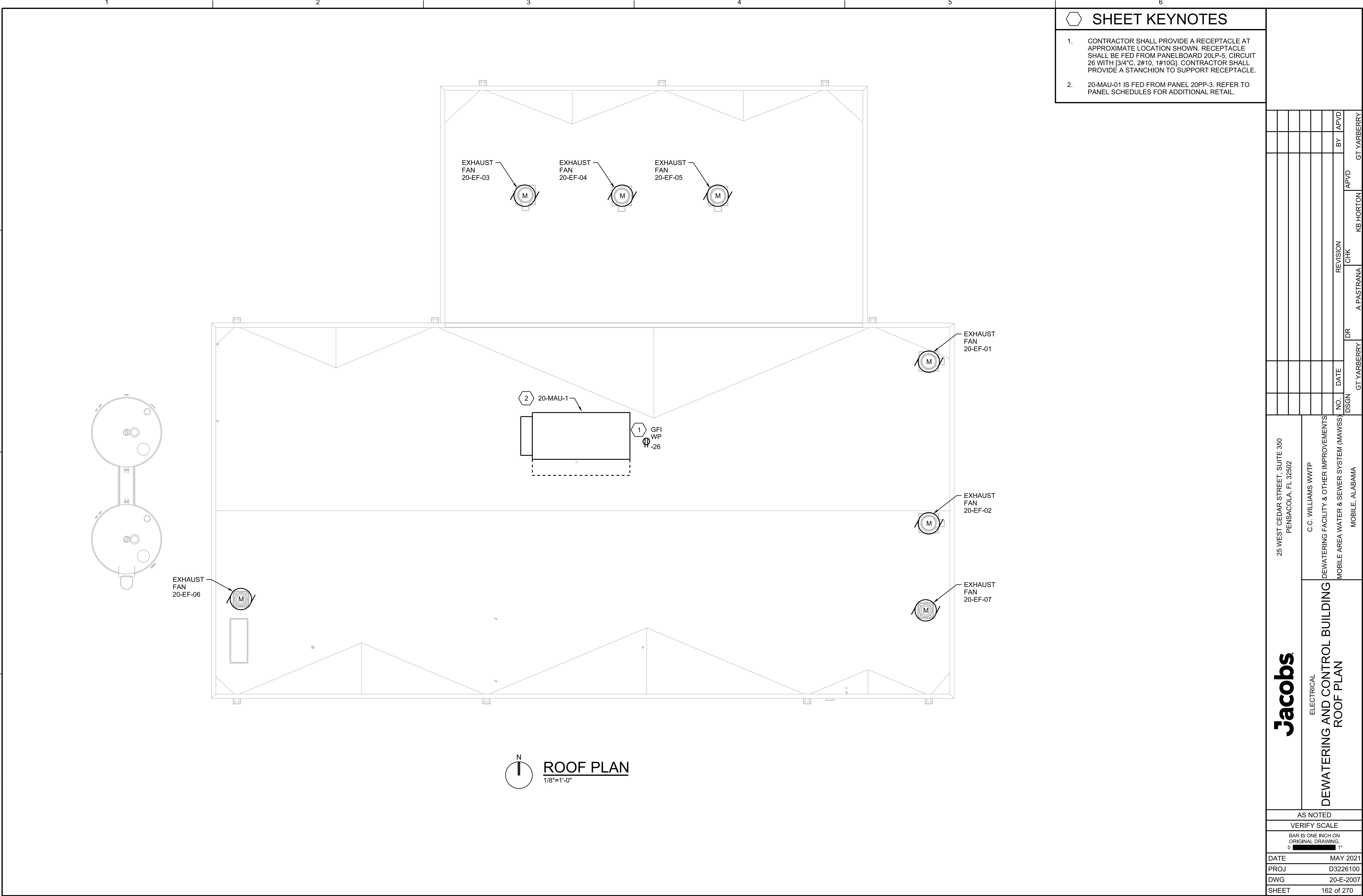
DWG 20-E-2006

SHEET 161 of 270

GT YARBERRY DSGN NO. DATE DR A PASTRANA REVISION CHK KB HORTON APVD GT YARBERRY APVD

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SHEET KEYNOTES	
1.	CONTRACTOR SHALL PROVIDE A RECEPTACLE AT APPROXIMATE LOCATION SHOWN. RECEPTACLE SHALL BE FED FROM PANELBOARD 20LP-5. CIRCUIT 26 WITH [3/4"C, 2#10, 1#10G]. CONTRACTOR SHALL PROVIDE A STANCHION TO SUPPORT RECEPTACLE.
2.	20-MAU-01 IS FED FROM PANEL 20PP-3. REFER TO PANEL SCHEDULES FOR ADDITIONAL RETAIL.

<div>Jacobs</div> <div>ELECTRICAL</div> <div>DEWATERING AND CONTROL BUILDING</div> <div>ROOF PLAN</div>		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS													
				MOBILE AREA WATER & SEWER SYSTEM (MAVSS)													
				MOBILE, ALABAMA													
				DGN		DATE		DR		CHK		APVD					
				GT YARBERRY				A PASTRANA		KB HORTON		GT YARBERRY					
				NO.						REVISION				BY			

GENERAL SHEET NOTES

1. LIGHTS SHOWN ON THIS DRAWING SHALL BE FED FROM PANEL BOARD 20LP-1, CIRCUITS AS INDICATED. CONTRACTOR SHALL PROVIDE 3/4"C, #12 CONDUCTORS WITH #12 GROUND WIRE. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT

SHEET KEYNOTES

1. WALL MOUNT LIGHT FIXTURE TYPE "F" AT THE HEIGHT SHOWN ON THE SECTION.

[illegible]

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA
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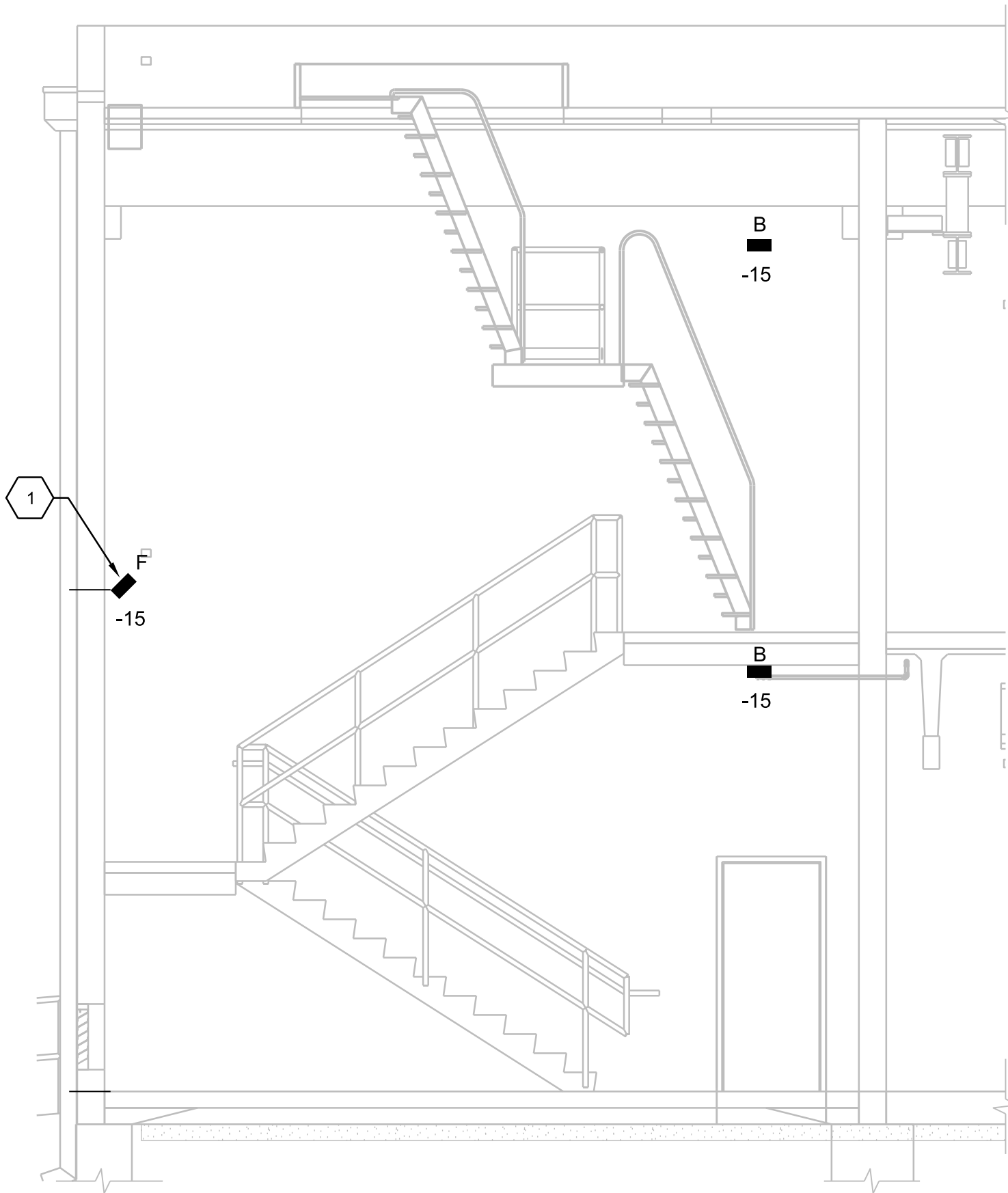
JACOBS

ELECTRICAL

DEWATERING AND CONTROL BUILDING

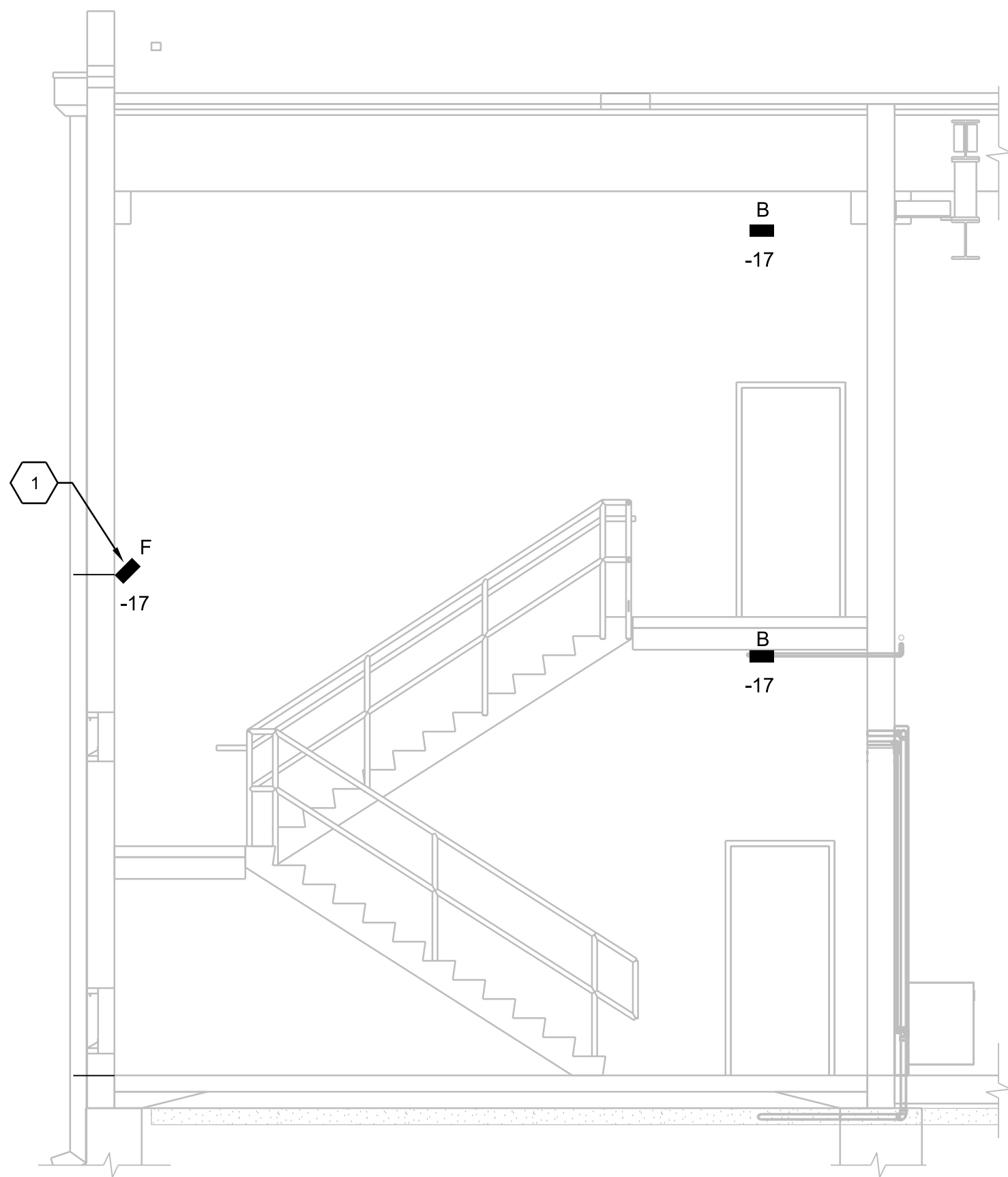
SECTIONS

3/8"=1'-0"	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	MAY 2021
PROJ	D3226100
DWG	20-E-3001
SHEET	163 of 270

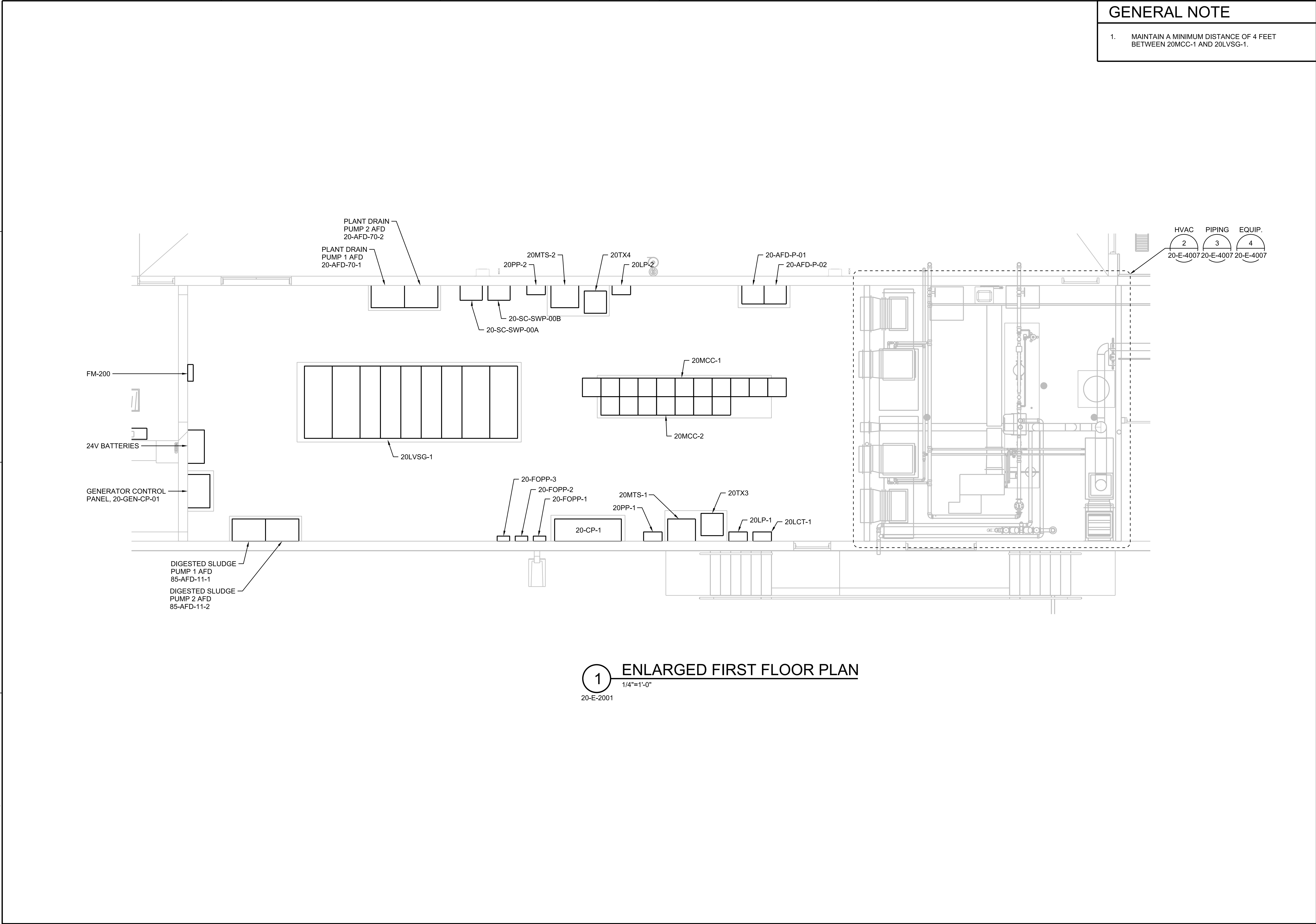


A SECTION
1/4"=1'-0"

20-E-2005
20-E-2006




B SECTION
1/4"=1'-0"
20-E-2005
20-E-2006

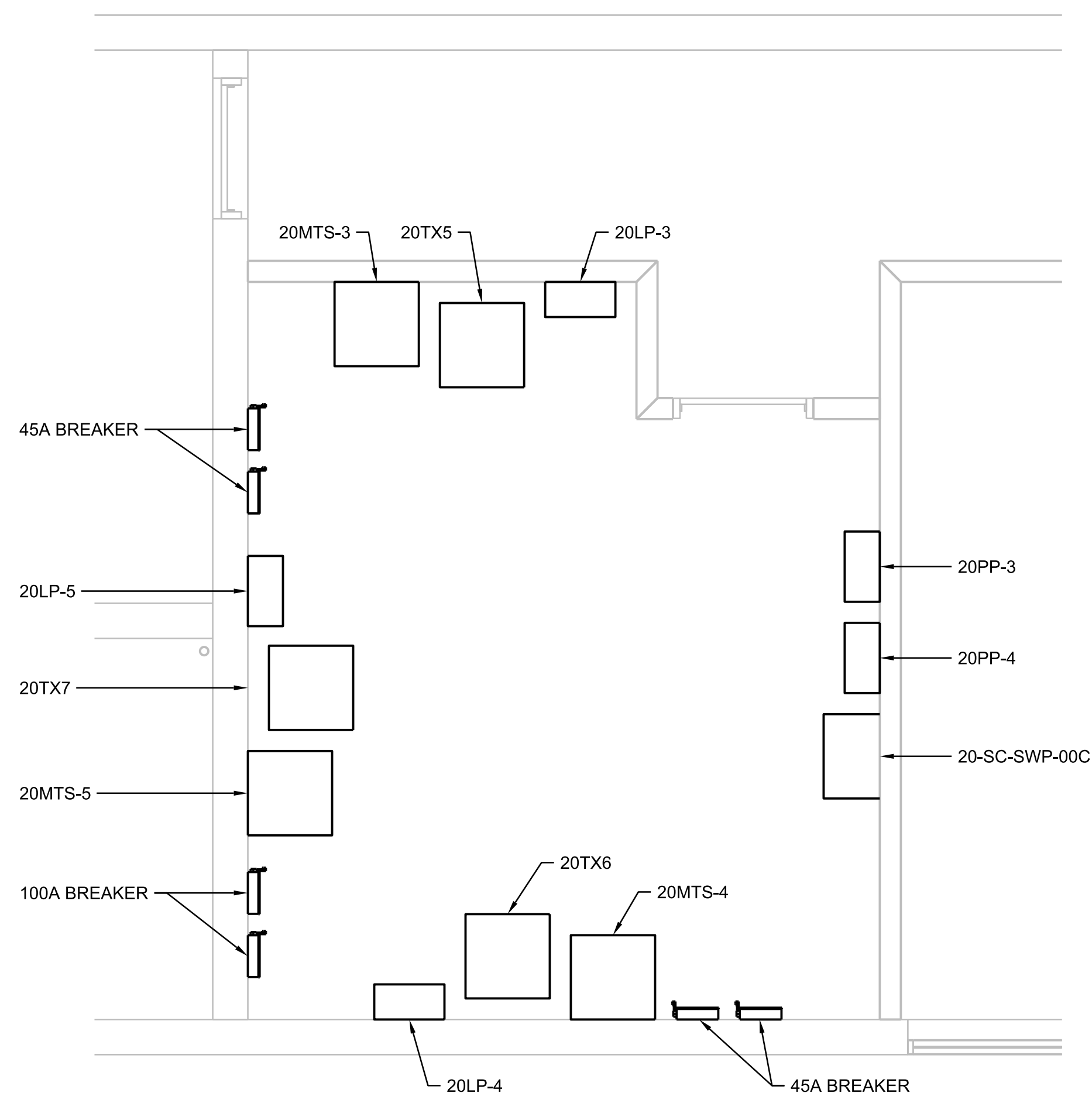


GENERAL NOTE

1. MAINTAIN A MINIMUM DISTANCE OF 4 FEET BETWEEN 20MCC-1 AND 20LVSG-1.

1 ENLARGED FIRST FLOOR PLAN
1/4"=1'-0"
20-E-2001

<div><div>Jacobs</div><div>ELECTRICAL</div><div>DEWATERING AND CONTROL BUILDING ENLARGED ELECTRICAL ROOM PLAN</div></div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS		MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA		GT YARBERRY		APVD		GT YARBERRY									
												DGN		NO.		DATE		DR		A PASTRANA		CHK		KB HORTON	
VERIFY SCALE																									
BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"																									
DATE				MAY 2021																					
PROJ				D3226100																					
DWG				20-E-4001																					
SHEET				164 of 270																					



2 ENLARGED SECOND FLOOR PLAN
3/8"=1'-0"
20-E-2002

Jacobs.

ELECTRICAL

DEWATERING AND CONTROL BUILDING
ENLARGED PLANS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
MOBILE, ALABAMA

CONFIRMED DOCUMENTS

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[illegible]

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3

Jacobs.

C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
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SHEET KEYNOTES

FLOOR
TRENCH

1 - USB 2.0 FROM LEGACY WORKSTATION KEYBOARD TO 20-CCW-OTRACK-01

1 - USB 2.0 FROM LEGACY WORKSTATION MOUSE TO 20-CCW-OTRACK-01

1 - HDMI FROM LEGACY WORKSTATION MONITOR TO 20-CCW-OTRACK-01

1 - CAT 6 FROM PRINTER TO 20-CCW-OTRACK-01

1 - CAT 6 FROM TELEVISION TO 20-CCW-BURACK-01

1 - CAT 6 FROM OPERATORS PC TO 20-CCW-BURACK-01

A SECTION
NTS
20-E-4003

FLOOR
TRENCH

- 1 - USB 2.0 FROM LEGACY WORKSTATION KEYBOARD TO 20-CCW-OTRACK-01
- 1 - USB 2.0 FROM LEGACY WORKSTATION MOUSE TO 20-CCW-OTRACK-01
- 1 - HDMI FROM LEGACY WORKSTATION MONITOR TO 20-CCW-OTRACK-01
- 1 - CAT6 FROM PHONE TO 20-CCW-BURACK-01
- 1 - USB 2.0 FROM 20-CCW-OWS02 MOUSE TO 20-CCW-OTRACK-01
- 1 - USB 2.0 FROM 20-CCW-OWS02 KEYBOARD TO 20-CCW-OTRACK-01
- 1 - HDMI FROM 20-CCW-OWS02 MONITOR TO 20-CCW-OTRACK-01
- 1 - HDMI FROM 20-CCW-OWS02 MONITOR TO 20-CCW-OTRACK-01
- 1 - USB 2.0 FROM 20-CCW-OWS02 MOUSE TO 20-CCW-OTRACK-01
- 1 - USB 2.0 FROM 20-CCW-OWS02 KEYBOARD TO 20-CCW-OTRACK-01
- 1 - [PC-1A] FROM FLOOR RECEPTACLE TO 20LP-5
- 1 CAT 6 FROM PRINTER TO 20-CCW-OTRACK-01
- 1 - CAT 6 FROM TELEVISION TO 20-CCW-BURACK-01
- 1 - CAT 6 FROM OPERATORS PC TO 20-CCW-BURACK-01

B SECTION
NTS
20-E-4003

FLOOR
TRENCH

- 1 - CAT6 FROM PHONE TO 20-CCW-BURACK-01
- 1 - USB 2.0 FROM 20-CCW-SCWS01 MOUSE TO 20-CCW-SRACK-01
- 1 - USB 2.0 FROM 20-CCW-SCWS01 KEYBOARD TO 20-CCW-SRACK-01
- 1 - HDMI FROM 20-CCW-SCWS01 MONITOR TO 20-CCW-SRACK-01
- 1 - USB 2.0 FROM 20-CCW-OWS01 MOUSE TO 20-CCW-OTRACK-01
- 1 - USB 2.0 FROM 20-CCW-OWS01 KEYBOARD TO 20-CCW-OTRACK-01
- 1 - HDMI FROM 20-CCW-OWS01 MONITOR TO 20-CCW-OTRACK-01
- 1 - HDMI FROM 20-CCW-OWS01 MONITOR TO 20-CCW-OTRACK-01
- 1 - [PC1A] FROM FLOOR RECEPTION TO 20LP-5
- 1 - CAT 6 FROM INTERCOM MASTER STATION TO 20-CCW-SECRACK-01
- 1 - CAT 6 FROM RELOCATED TIMECLOCK TO 20-CCW-BURACK-01

C SECTION
NTS
20-E-4003

FLOOR
TRENCH

1 - HDMI FROM 20-CCW-VID01MON-01 TO 20-CCW-RACK-01
1 - HDMI FROM 20-CCW-VID01MON-02 TO 20-CCW-RACK-01
1 - HDMI FROM 20-CCW-VID01MON-03 TO 20-CCW-RACK-01
1 - HDMI FROM 20-CCW-VID01MON-04 TO 20-CCW-RACK-01
1 - HDMI FROM 20-SCWS01MON-02 TO 20-CCW-SRACK-01
1 - HDMI FROM 20-SCWS01MON-03 TO 20-CCW-SRACK-01

D SECTION
NTS
20-E-4003

FLOOR
TRENCH

1 - [PC1A] FROM FLOOR RECEPTACLE TO 20LP-5
1 - [PC1A] FROM FLOOR RECEPTACLE TO 20LP-5
1 - [PC2A] FROM 20-CCW-RACK-01 TO 20LP-3
1 - [PC2A] FROM 20-CCW-RACK-01 TO 20LP-4
1 - [PC2A] FROM 20-CCW-SRACK-01 TO 20LP-3
1 - [PC2A] FROM 20-CCW-SRACK-01 TO 20LP-4
1 - [PC2A] FROM 20-CCW-BURACK-01 TO 20LP-3
1 - [PC2A] FROM 20-CCW-BURACK-01 TO 20LP-4
1 - CAT 6 CABLE FROM OFFICE TELEPHONE RECEPT TO BUSINESS RACK

 $\langle 1 \rangle$

SECTION
NTS
20-E-4003

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA
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Jacobs

DEWATERING AND CONTROL BUILDING SECOND FLOOR TRENCH SECTIONS

AS NOTED

VERIFY SCALE

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ORIGINAL DRAWING.

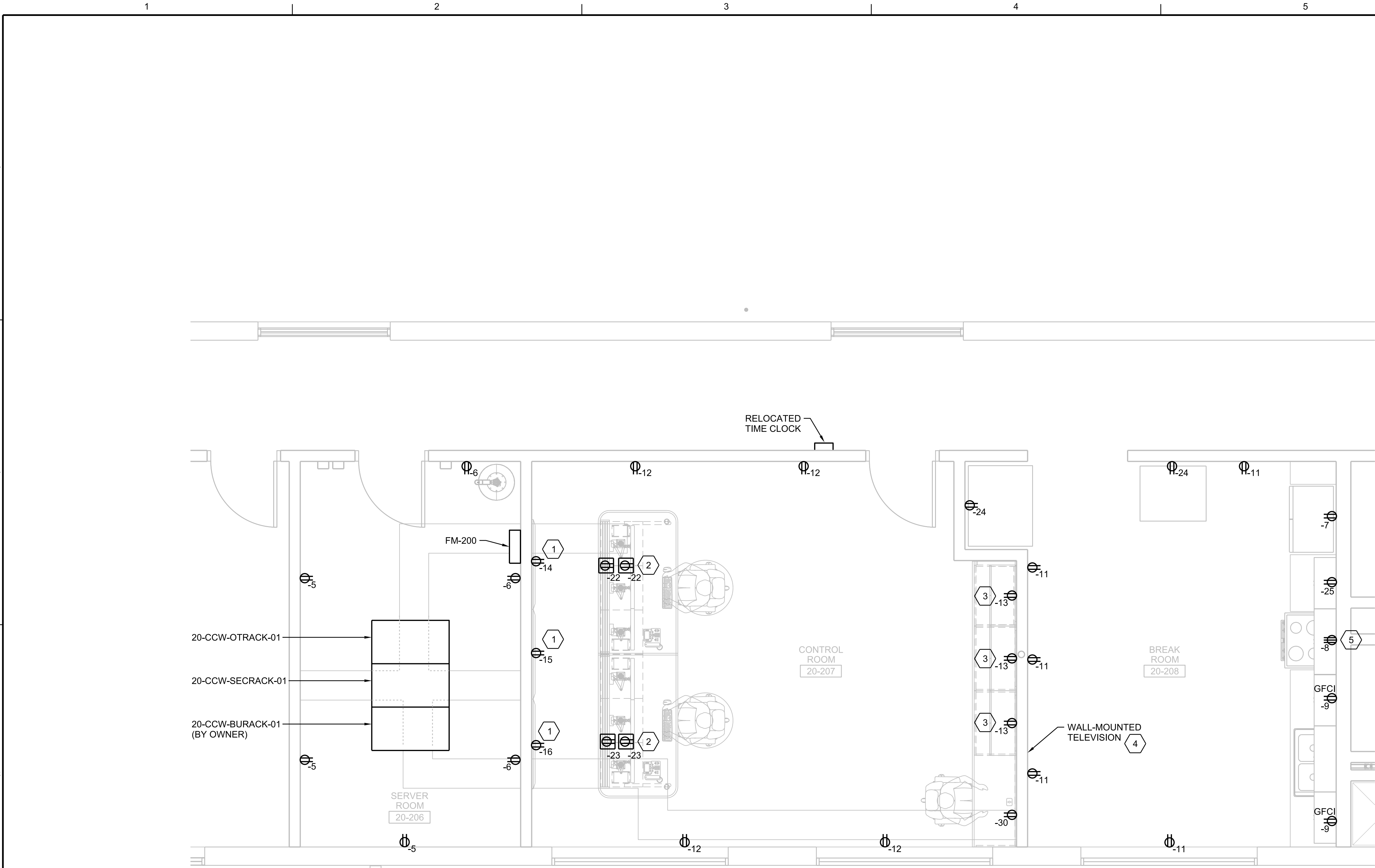
DATE	MAY 2021
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PROJ	D3226100
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DWG	20-E-4004
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SHEET 167 of 270

CONFIRMED DOCUMENTS



4 ENLARGED SECOND FLOOR PLAN
3/8"=1'-0"
20-E-2004

GENERAL SHEET NOTES

- ALL RECEPTACLES SHOWN SHALL BE POWERED FROM PANELBOARD 20LP-5, CIRCUIT IT AS INDICATED. PROVIDE #12 CONDUCTORS WITH #12 GROUND WIRE IN 3/4" C FOR CIRCUITS LESS THAN 75 FEET. PROVIDE #10 CONDUCTORS WITH #10 GROUND WIRE IN 3/4" C FOR CIRCUITS GREATER THAN 75 FEET. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.

SHEET KEYNOTES

- CONTRACTOR SHALL PROVIDE TWO (2) WALL-MOUNTED DUPLEX RECEPTACLES IN APPROXIMATE LOCATION SHOWN. RECEPTACLES SHALL BE USED TO POWER TWO (2) DIFFERENT MONITORS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING EXACT LOCATION TO INSTALL RECEPTACLES.
- CONTRACTOR SHALL PROVIDE TWO (2) FLOOR-MOUNTED RECEPTACLES IN APPROXIMATE LOCATION SHOWN.
- CONTRACTOR SHALL PROVIDE THREE (3) WALL-MOUNTED DUPLEX RECEPTACLES ABOVE THE LOWER CABINET. CONTRACTOR TO COORDINATE EXACT LOCATION.
- CONTRACTOR SHALL PROVIDE A DATA JACK FOR A CAT-6 CABLE. THE CAT-6 CABLE SHALL BE ROUTED TO THE BUSINESS RACK IN THE SERVER ROOM VIA THE FLOOR TRENCH.
- CONTRACTOR SHALL PROVIDE 50A, 240V RECEPTACLE FOR STOVE. CONTRACTOR SHALL PROVIDE [1" C, 2#6, 1#10G] FROM 20LP-5 TO RECEPTACLE. CONTRACTOR SHALL COORDINATE SPECIFIC PROVISIONS REQUIRED WITH THE ACTUAL STOVE TO BE INSTALLED.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

Jacobs
ELECTRICAL
**DEWATERING AND CONTROL BUILDING
ENLARGED PLANS**

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE	MAY 2021
PROJ	D3226100
DWG	20-E-4005
SHEET	168 of 270

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GT YARBERRY
DGN

NO.

DATE

DR

AL PASTRANA

CHK

REVISION

KB HORTON



APVD

BY

GT YARBERRY

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		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502								
		C.C. WILLIAMS WWTP								
ELECTRICAL DEWATERING AND CONTROL BUILDING PLANT DRAIN PUMP STATION ENLARGED PLAN AND RISER DIAGRAM		DEWATERING FACILITY & OTHER IMPROVEMENTS (MOBILE AREA WATER & SEWER SYSTEM (MAWSS))								
		MOBILE, ALABAMA								
		NO.	DATE	REVISION		BY		APVD		
		DSGN		GT YARBERRY	DR	AL PASTRANA	CHK	KB HORTON	APVD	GT YARBERRY
<div> <div>VERIFY SCALE</div> <div> BAR IS ONE INCH ON ORIGINAL DRAWING. 0"  1" </div> </div>										
DATE	MAY 2021									
PROJ	D3226100									
DWG	20-E-4006									
SHEET	169 of 270									
PLOT TIME: 3:40:36 AM										

1

2

3

4

5

6

20-E-4001

2

HVAC PLAN

1/4"=1'-0"

20-E-4001

3

PIPING PLAN

1/4"=1'-0"

20-E-4001

4

EQUIPMENT PLAN

1/4"=1'-0"

1.

CONTRACTOR SHALL PROVIDE [3/4"C, 2#12, 1#12G] FROM PANEL 20LP-1 TO POWER THE BOILER.

2.

CONTRACTOR SHALL PROVIDE A DUPLEX RECEPTACLE TO POWER THE GLYCOL FEEDER. CONTRACTOR SHALL PROVIDE [3/4"C, 2#12, 1#12G] FROM PANEL 20LP-1 TO POWER RECEPTACLE.

3.

HYDRONIC PUMPS ARE POWERED FROM 20MCC-2. REFER TO DRAWING20-E-6002 FOR DETAIL.

4.

CONTRACTOR SHALL MOUNT RECEPTACLE SHOWN ROUGHLY 4 FEET AFF. CONTRACTOR SHALL PROVIDE [3/4"C, 2#12, 1#12G] FROM PANEL 20LP-2, CIRCUIT 31 TO RECEPTACLE SHOWN.

GT YARBERRY

DR

A PASTRANA

CHK

KB HORTON

APVD

BY

APVD

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

JACOBS

ELECTRICAL

DEWATERING AND CONTROL BUILDING
ENLARGED ELECTRICAL ROOM
PLANS

20-E-4007

170 of 270

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

DATE

MAY 2021

PROJ

D3226100

DWG

20-E-4007

SHEET

170 of 270

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FILENAME: 20-E-4007_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 7:14:44 AM

CONFORMED DOCUMENTS

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SHEET KEYNOTES

1. BREAKER SHALL BE HACR RATED.

PANEL: Panel 20PP-1 SERVICE VOLTAGE: 480V TOTAL LOAD KVA: 32.8 REMARKS: NEMA 1 Enclosure				LOCATION: Dewatering and Controls Building - First Floor Elec Rm PHASE: 3 BUS SIZE: 150A NEUTRAL:				WIRE: 3 MAIN SIZE: 150A MOUNTING: SURFACE TYPE: BREAKER			
LOAD IN KVA			CIRCUIT DESCRIPTION	BKR A/P	CKT NO.	CKT NO.	BKR A/P	CIRCUIT DESCRIPTION	LOAD IN KVA		
A	B	C							A	B	C
1.0			20-LCP-13-1	20/3	1	2	20/3	20-LCP-14-1	1.7		
	1.0				3	4				1.7	
		1.0			5	6					1.7
1.9			20-WSHP-05	15/3	7	8	30/3	20-G-30-6A	0.5		
	1.9				9	10				0.5	
		1.9			11	12					0.5
0.5			20-G-30-8A	30/3	13	14	30/3	20-G-30-8B	0.5		
	0.5				15	16				0.5	
		0.5			17	18					0.5
0.5			20-G-30-8C	30/3	19	20	25/3	20-WSHP-01	4.3		
	0.5				21	22				4.3	
		0.5			23	24					4.3
			SPARE	20/3	25	26	20/3	SPARE			
					27	28					
					29	30					
			SPARE	30/3	31	32	30/3	SPARE			
					33	34					
					35	36					
			SPARE	30/3	37	38	30/3	SPARE			
					39	40					
					41	42					
3.9	3.9	3.9	TOTAL						7.0	7.0	7.0

PANEL: Panel 20PP-2				LOCATION: Dewatering and Controls Building - First Floor Elec Rm											
SERVICE VOLTAGE: 480V				PHASE: 3				WIRE: 3							
TOTAL LOAD KVA: 42.6				BUS SIZE: 150A				MAIN SIZE: 150A				TYPE: BREAKER			
REMARKS: NEMA 1 Enclosure				NEUTRAL:				MOUNTING: SURFACE							

LOAD IN KVA			CIRCUIT DESCRIPTION	BKR A/P	CKT NO.	CKT NO.	BKR A/P	CIRCUIT DESCRIPTION	LOAD IN KVA		
A	B	C							A	B	C
0.5			20-G-30-5A	30/3	1	2	30/3	20-G-30-7A	0.5		
	0.5				3	4				0.5	
		0.5			5	6					0.5
0.5			20-G-30-7B	30/3	7	8	30/3	20-G-30-7C	0.5		
	0.5				9	10				0.5	
		0.5			11	12					0.5
4.0			20-WSHP-04	20/3	13	14	20/3	20-WSHP-05	1.9		
	4.0				15	16				1.9	
		4.0			17	18					1.9
			SPARE	20/3	19	20	40/3	Crane	6.3		
					21	22				6.3	
					23	24					6.3
			SPARE	20/3	25	26	20/3	SPARE			
					27	28					
					29	30					
			SPARE	30/3	31	32	30/3	SPARE			
					33	34					
					35	36					
			SPARE	30/3	37	38	30/3	SPARE			
					39	40					
					41	42					
5.0	5.0	5.0	TOTAL						9.2	9.2	9.2

PANEL: Panel 20PP-3

SERVICE VOLTAGE: 480V

TOTAL LOAD KVA: 47.4

REMARKS: NEMA 1 Enclosure

LOCATION: Dewatering and Controls Building - Second Floor Elec Rm

PHASE: 3

BUS SIZE: 150A

NEUTRAL: N/A

WIRE: 3

MAIN SIZE:150A

MOUNTING: SURFACE

TYPE: BREAKER

LOAD IN KVA			CIRCUIT DESCRIPTION	BKR A/P	CKT NO.	CKT A/P	BKR A/P	CIRCUIT DESCRIPTION	LOAD IN KVA		
A	B	C							A	B	C
11.0			20-MAU-01	50/3	1	2	15/3	20-WSHP-09	2.4		
	11.0			<div>1</div>	3	4				2.4	
		11.0			5	6					2.4
2.4			20-WSHP-06	20/3	7	8	20/3	SPARE			
					9	10					
		2.4			11	12					
			SPARE	20/3	13	14	20/3	SPARE			
					15	16					
					17	18					
			SPARE	30/3	19	20	30/3	SPARE			
					21	22					
					23	24					
			SPARE	20/3	25	26	20/3	SPARE			
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
13.4	13.4	13.4	TOTAL						2.4	2.4	2.4

PANEL: Panel 20PP-4 SERVICE VOLTAGE: 480V TOTAL LOAD KVA: 30.0 REMARKS: NEMA 1 Enclosure				LOCATION: Dewatering and Controls Building - Second Floor Elec Rm PHASE: 3 BUS SIZE: 150A NEUTRAL: N/A				WIRE: 3 MAIN SIZE: 150A MOUNTING: SURFACE TYPE: BREAKER			
LOAD IN KVA			CIRCUIT DESCRIPTION	BKR A/P	CKT NO.	CKT NO.	BKR A/P	CIRCUIT DESCRIPTION	LOAD IN KVA		
A	B	C							A	B	C
10.0			Elevator Control Panel	90/3	1	2	20/3	SPARE			
	10.0					3	4				
		10.0				5	6				
			SPARE	20/3	7	8	20/3	SPARE			
						9	10				
						11	12				
			SPARE	20/3	13	14	20/3	SPARE			
						15	16				
						17	18				
			SPARE	30/3	19	20	30/3	SPARE			
						21	22				
						23	24				
			SPARE	30/3	25	26	30/3	SPARE			
						27	28				
						29	30				
			SPACE			31	32	SPACE			
			SPACE			33	34	SPACE			
			SPACE			35	36	SPACE			
			SPACE			37	38	SPACE			
			SPACE			39	40	SPACE			
			SPACE			41	42	SPACE			
10.0	10.0	10.0	TOTAL						0.0	0.0	0.0

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

MOBILE: ALABAMA

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Jacobs.

ELECTRICAL

DEWATERING AND CONTROL BUILDING PANEL SCHEDULES

1	0	7	CONFIRMED DOCUMENTS
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VERIFY SCALE

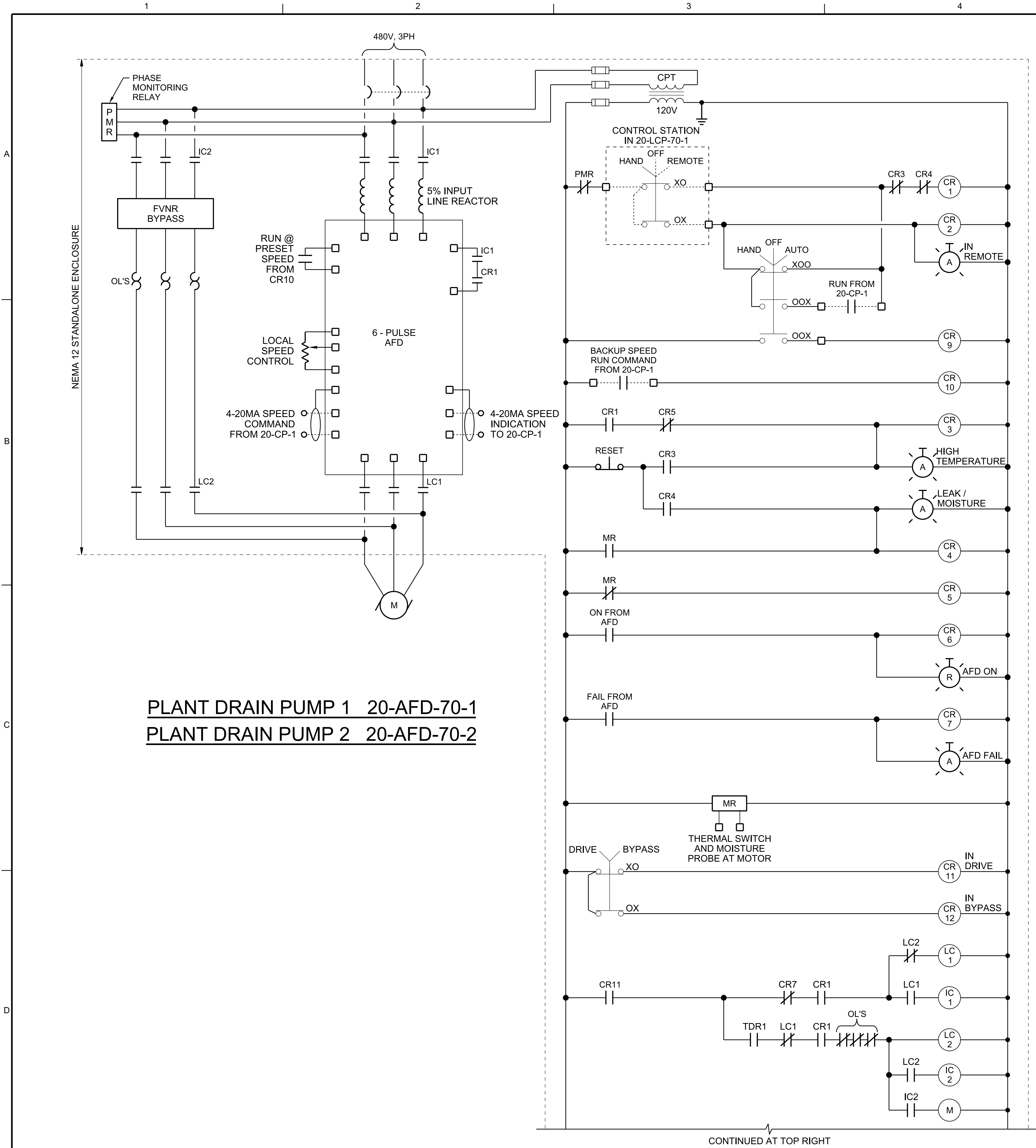
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ORIGINAL DRAWING

DATE	MAY 2021
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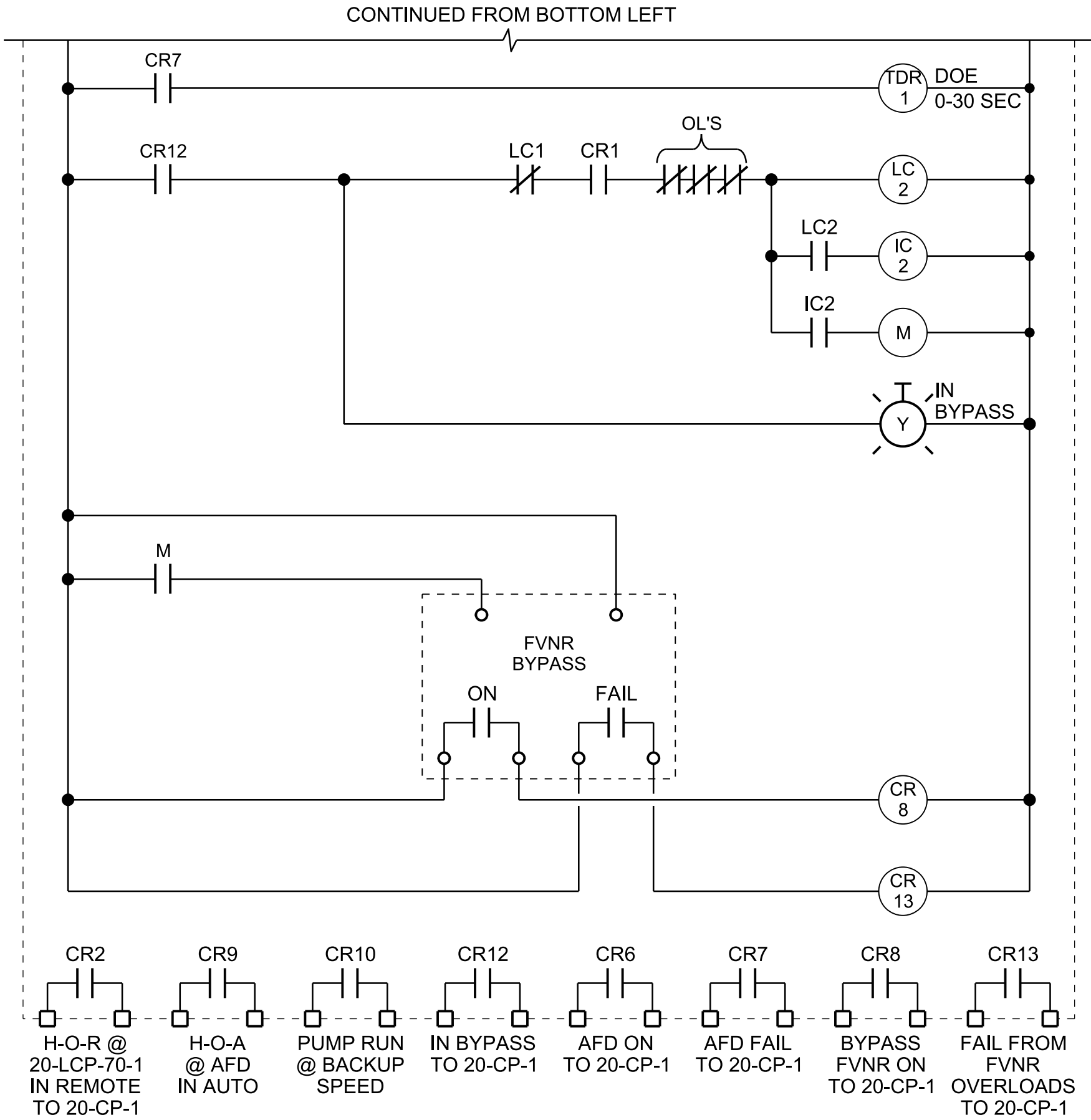
PROJ	D3226100
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DWG	20-E-6007
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BWS	£0.0001
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PLANT DRAIN PUMP 1 20-AFD-70-1
PLANT DRAIN PUMP 2 20-AFD-70-2



Jacobs

ELECTRICAL
DEWATERING AND CONTROL BUILDING
CONTROL DIAGRAMS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

VERIFY SCALE			
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DATE	MAY 2021		
PROJ	D3226100		
DWG	20-E-6012		
SHEET	181 of 270		

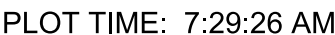
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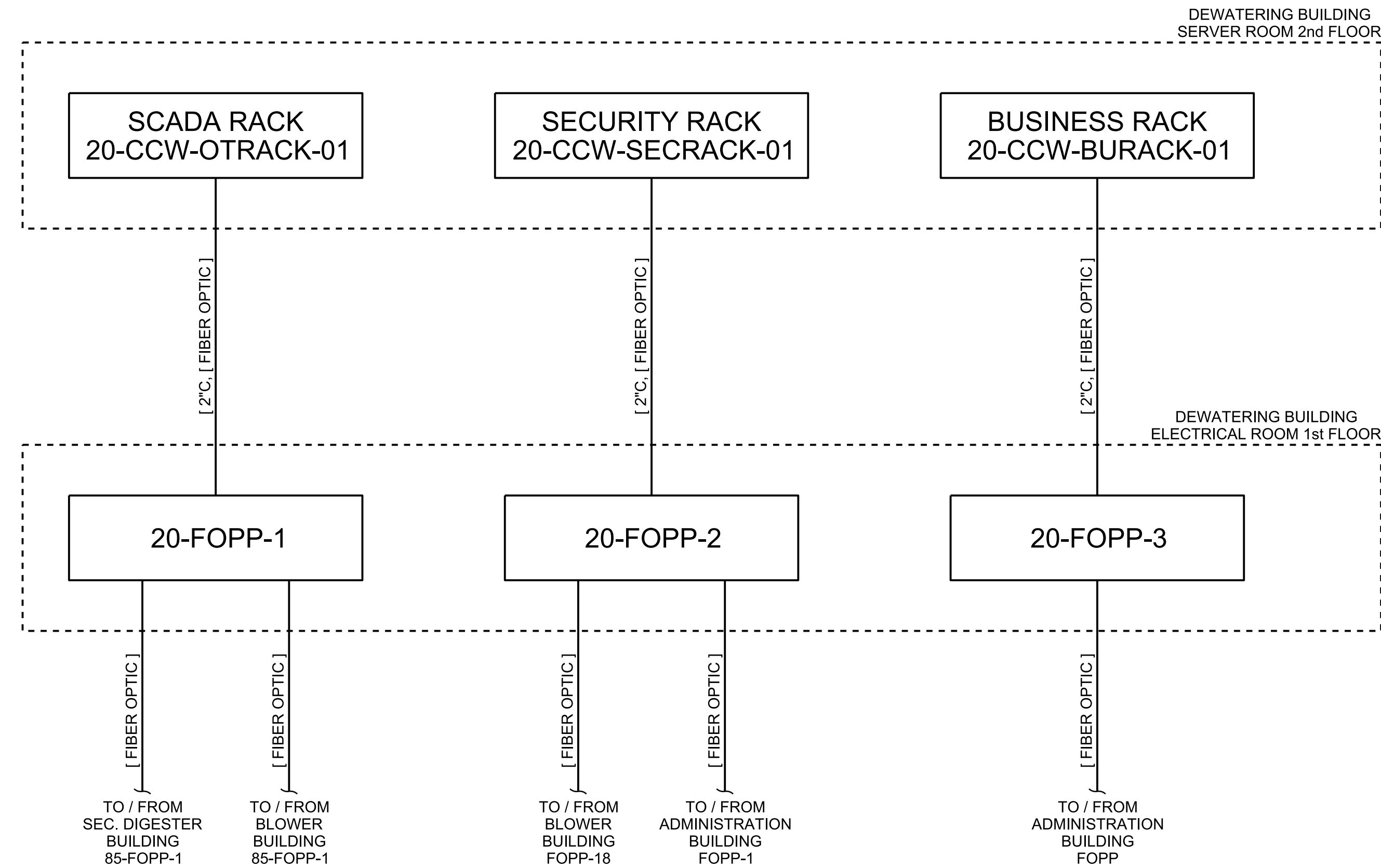
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GT YARBERRY
G MESSER
KB HORTON


GT YARBERRY

GT YARBERRY

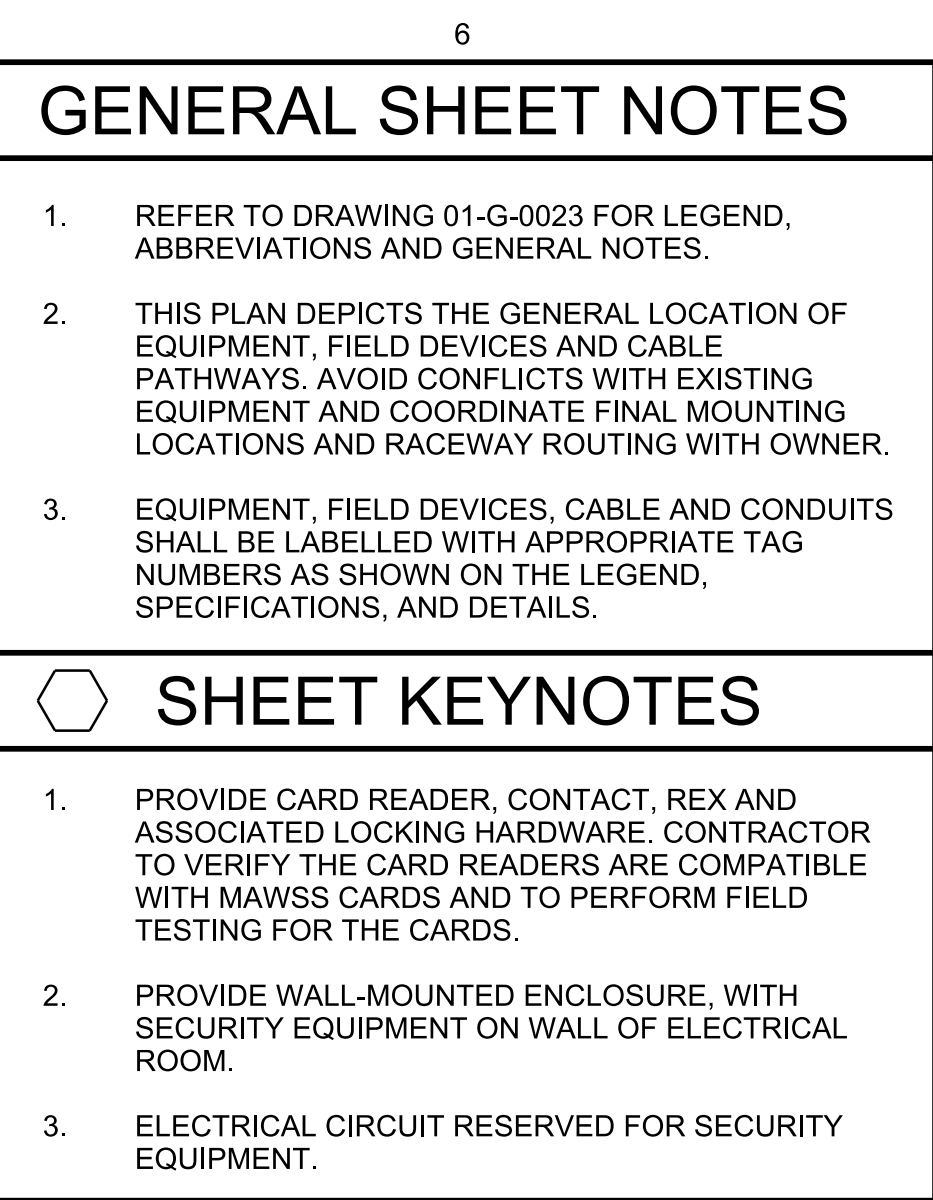






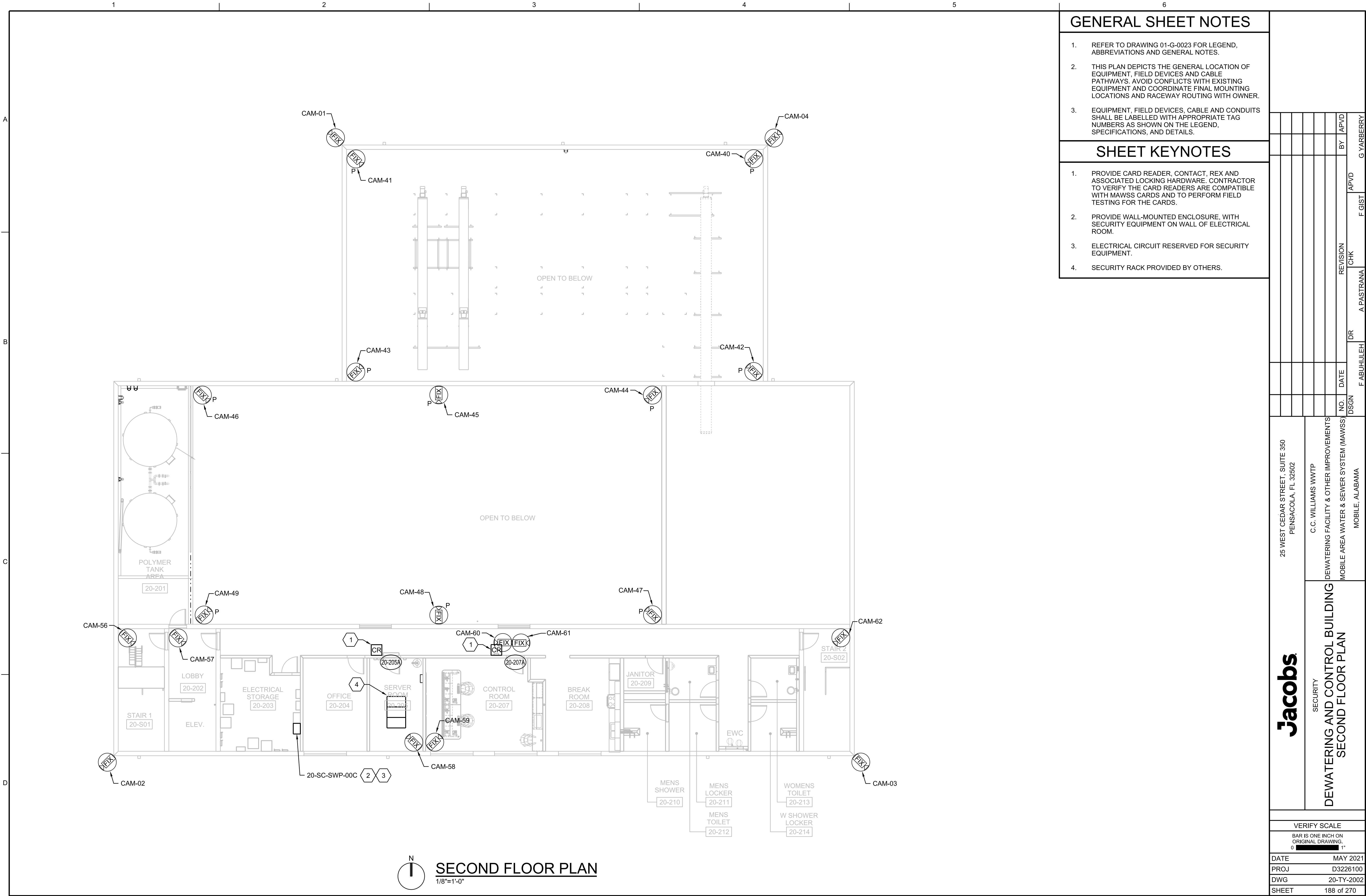
FIBER OPTIC RISER DIAGRAM

		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	
		C.C. WILLIAMS WWTP	
ELECTRICAL		DEWATERING FACILITY & OTHER IMPROVEMENTS	
DEWATERING AND CONTROL BUILDING FIBER OPTIC RISER DIAGRAM		MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA	
<div> <div>VERIFY SCALE</div> <div> <div>BAR IS ONE INCH ON ORIGINAL DRAWING.</div> <div> <div>0</div> <div></div> <div>1"</div> </div> </div> </div>			
DATE	MAY 2021		
PROJ	D3226100		
DWG	20-E-6017		
SHEET	186 of 270		

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		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502													
		SECURITY DEWATERING AND CONTROL BUILDING FIRST FLOOR PLAN		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA											
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING 0"  1"															
DATE				MAY 2021											
PROJ				D3226100											
DWG				20-TY-2001											
SHEET				187 of 270											



GENERAL SHEET NOTES

- 1. REFER TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS. AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.
- 3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.

SHEET KEYNOTES

- 1. PROVIDE CARD READER, CONTACT, REX AND ASSOCIATED LOCKING HARDWARE. CONTRACTOR TO VERIFY THE CARD READERS ARE COMPATIBLE WITH MAWSS CARDS AND TO PERFORM FIELD TESTING FOR THE CARDS.
- 2. PROVIDE WALL-MOUNTED ENCLOSURE, WITH SECURITY EQUIPMENT ON WALL OF ELECTRICAL ROOM.
- 3. ELECTRICAL CIRCUIT RESERVED FOR SECURITY EQUIPMENT.
- 4. SECURITY RACK PROVIDED BY OTHERS.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502



SECURITY
DEWATERING AND CONTROL BUILDING
SECOND FLOOR PLAN

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
MOBILE, ALABAMA

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 20-TY-2002

SHEET 188 of 270

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F. ABUJHLEH
DR

A. PASTRANA
CHK

F. GIST
APVD

G. YARBERRY
BY

APVD

NO. DATE

REVISION

DR

APVD

BY

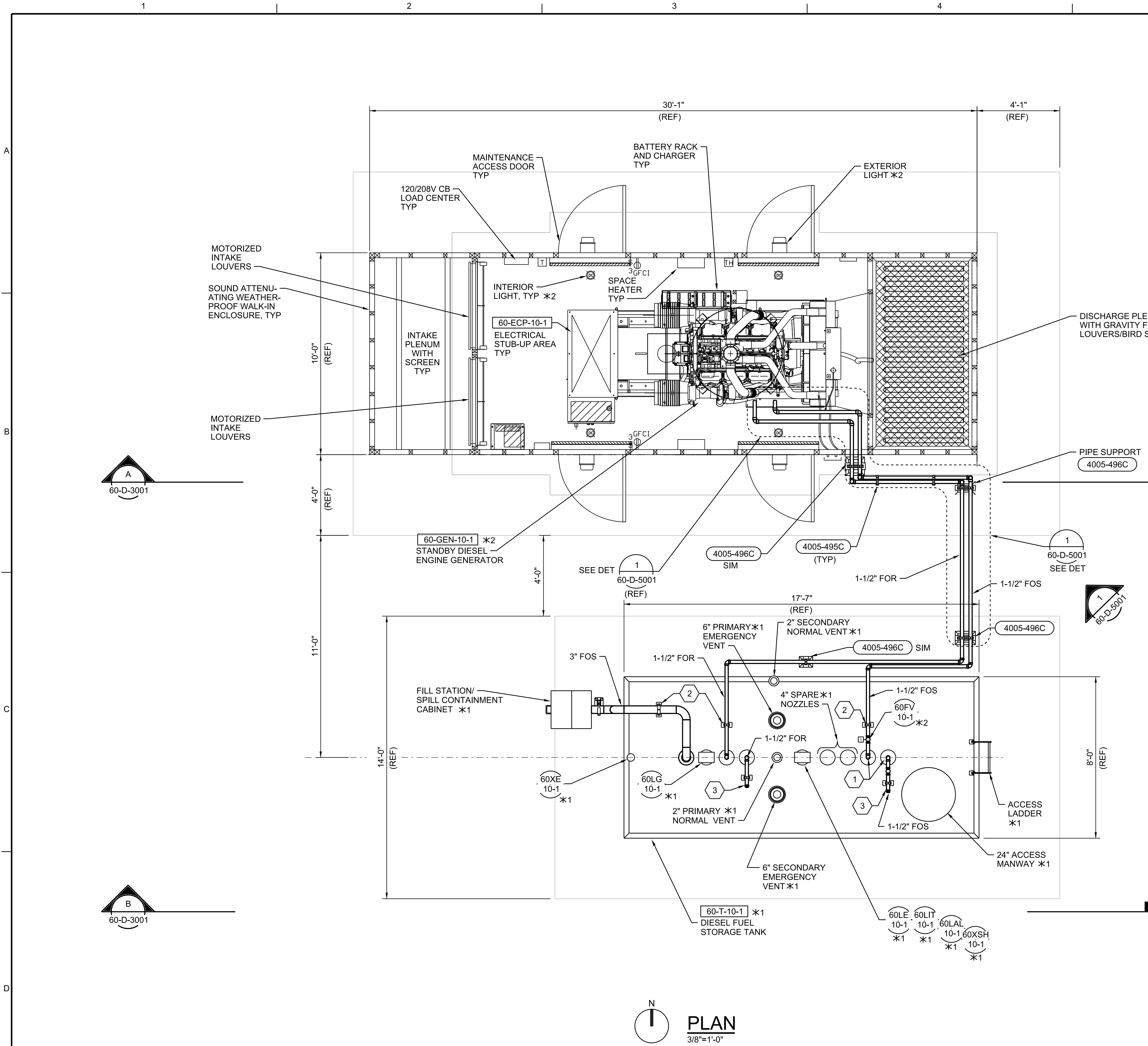
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GENERAL NOTES

- ANCHOR TO CONCRETE SLAB PER EQUIPMENT/TANK MANUFACTURERS RECOMMENDATIONS. ANCHORING SYSTEMS PER SECTION 05 50 00 AND STRUCTURAL DESIGN CRITERIA OF DRAWING 01-S-0006.
- DIESEL FUEL STORAGE TANK SYSTEM WITH ACCESSORIES PER SECTION 43 40 05.
- DIESEL ENGINE GENERATOR AND ACCESSORIES PER SECTION 26 32 13.13.
- ALL ITEMS MARKED WITH AN ASTERISK (*) ARE PART OF THE DIESEL ENGINE GENERATOR SYSTEM.
- ALL ITEMS MARKED WITH AN ASTERISK (*) ARE PART OF THE DIESEL FUEL STORAGE SYSTEM.

SHEET KEYNOTES

- AUXILIARY PRIMING CONNECTION ON TOP VERTICAL LEG OF SUPPLY RISER: VERTICAL TEE FITTING WITH 1 1/2"x3/4" THREADED BUSHING, 3/4" SPOOL PIECE, 3/4" V-307, 3/4" SPOOL PIECE, AND TREADED CAP.
- TOP OF TANK PIPE/CONDUIT SUPPORTS BY TANK MANUFACTURER. SUPPORTS SHALL BE HOT DIP GALVANIZED, POST FABRICATION.
- PIPE TERMINATION: THREADED CAP ON SPOOL PIECE (FOR FUTURE CONNECTION).

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

Jacobs
PROCESS MECHANICAL
**EMERGENCY STANDBY ENGINE
GENERATOR SYSTEM
PLAN**

SCALE	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	60-D-2001
SHEET	191 of 270

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A BARTON

H POSTROZNY

MOBILE, ALABAMA

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

DEWATERING FACILITY & OTHER IMPROVEMENTS

C.C. WILLIAMS WWTP

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

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PROCESS MECHANICAL

EMERGENCY STANDBY ENGINE
GENERATOR SYSTEM
PLAN

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE

PROJ

DWG

SHEET

SCALE

VERIFY SCALE

REUSE OF DOCUMENTS:

MOBILE, ALABAMA

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

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EMERGENCY STANDBY ENGINE

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EMERGENCY STANDBY ENGINE

GENERATOR SYSTEM

PLAN

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MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

DEWATERING FACILITY & OTHER IMPROVEMENTS

C.C. WILLIAMS WWTP

25 WEST CEDAR STREET, SUITE 350

PENSACOLA, FL 32502

JACOBS

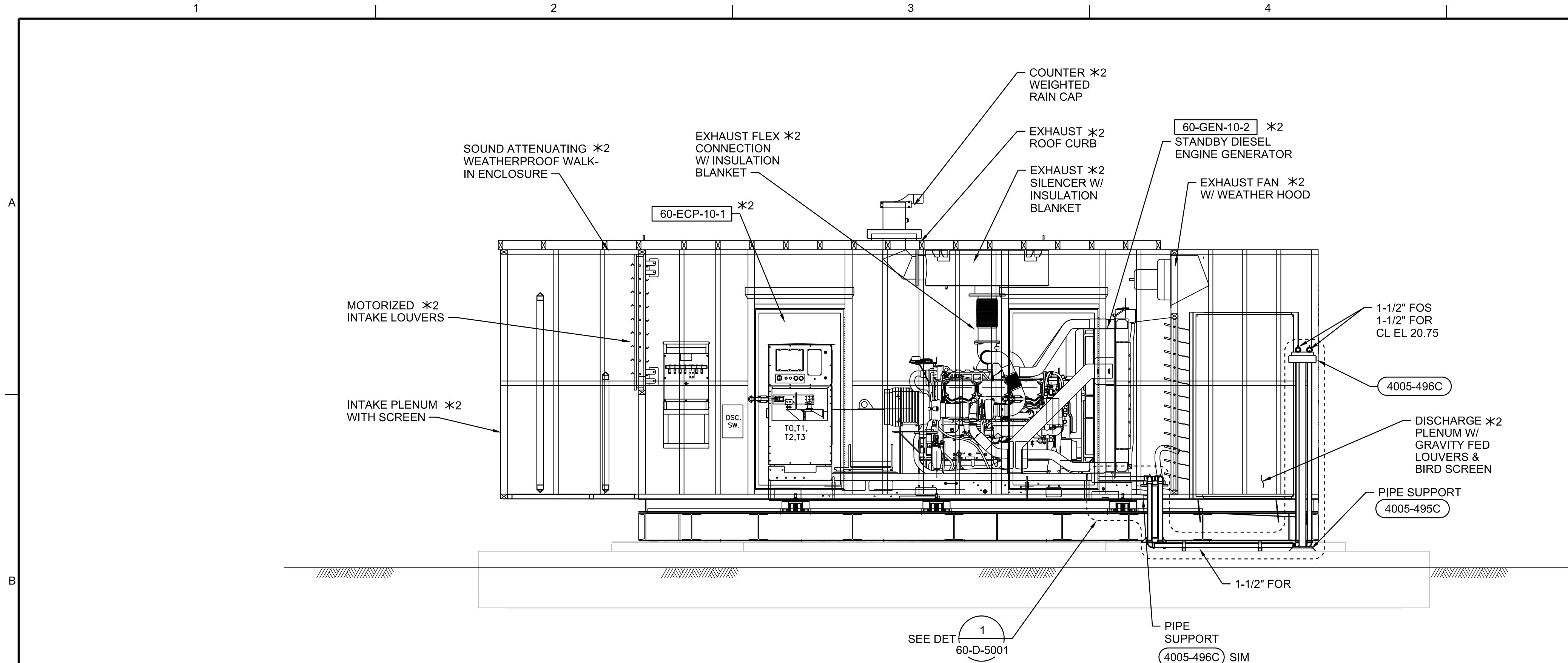
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EMERGENCY STANDBY ENGINE

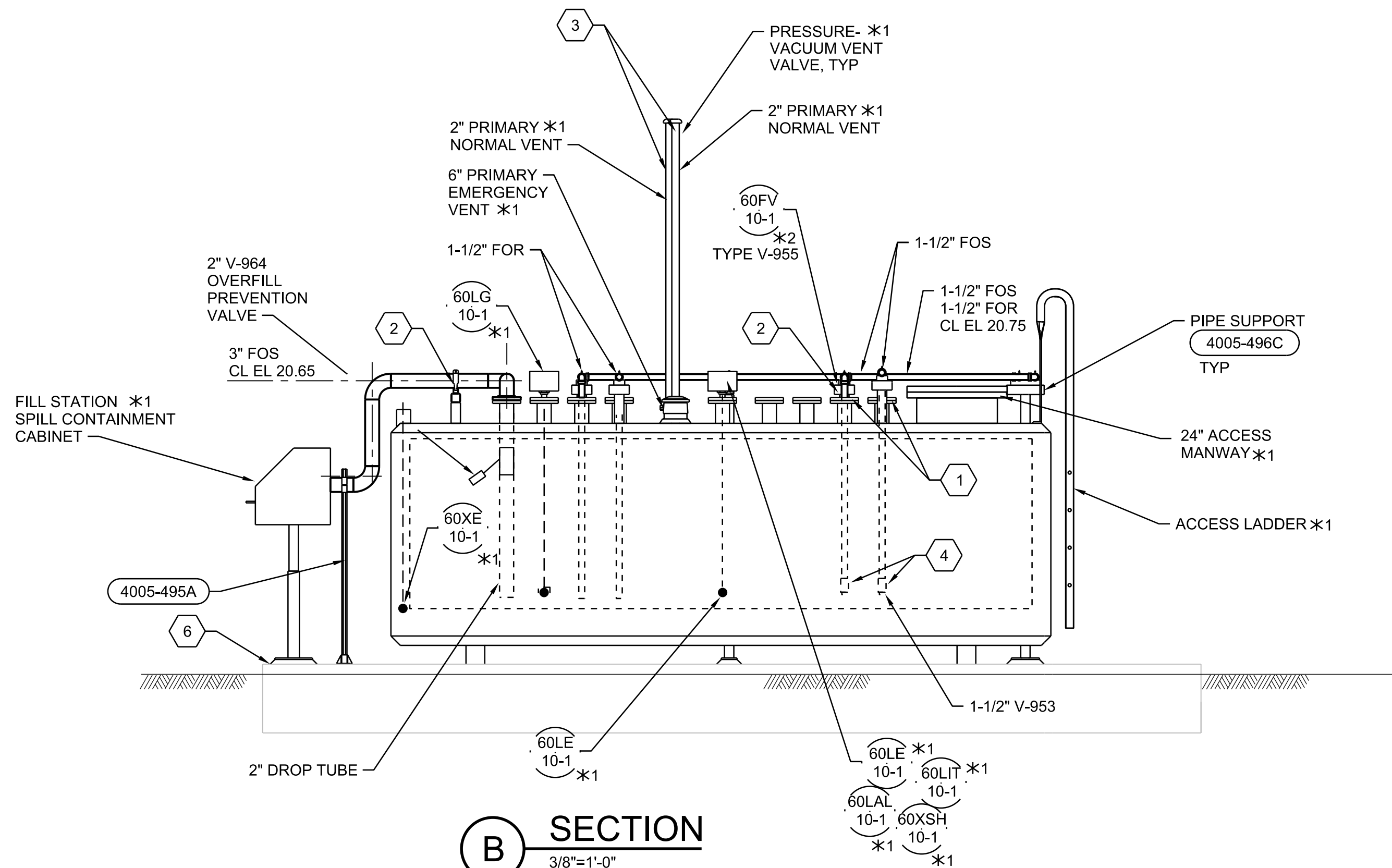
GENERATOR SYSTEM

PLAN

REUSE OF DOCUMENTS:



A SECTION
3/8"=1'-0"
60-D-2001



B SECTION
3/8"=1'-0"
60-D-2001

GENERAL NOTES

- ALL ITEMS MARKED WITH AN ASTERISK (*2) ARE PART OF THE DIESEL ENGINE GENERATOR SYSTEM.
- ALL ITEMS MARKED WITH AN ASTERISK (*1) ARE PART OF THE DIESEL FUEL STORAGE SYSTEM.

SHEET KEYNOTES

- AUXILLARY PRIMING CONNECTION ON TOP VERTICAL LEG OF SUPPLY RISER: VERTICAL TEE FITTING WITH 1 1/2"x3/4" THREADED BUSHING, 3/4" SPOOL PIECE, 3/4" V-307, 3/4" SPOOL PIECE, AND TREADED CAP.
- TOP OF TANK PIPE/CONDUIT SUPPORTS BY TANK MANUFACTURER. SUPPORTS SHALL BE HOT DIP GALVANIZED POST FABRICATION.
- VENT MOUNTING 8'-0" ABOVE TOP OF TANK.
- VALVE BOTTOM 2" ABOVE TANK INVERT.
- PIPE TERMINATION: THREADED CAP ON SPOOL PIECE (FOR FUTURE CONNECTION).
- ANCHOR TO CONCRETE SLAB PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS. ANCHORING SYSTEMS PER SECTION 05 50 00 AND STRUCTURAL DESIGN CRITERIA OF DRAWING 01-S-0006.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

Jacobs

PROCESS MECHANICAL
**EMERGENCY STANDBY ENGINE
GENERATOR SYSTEM
SECTION VIEWS**

SCALE
VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE	MAY 2021
PROJ	D3226100
DWG	60-D-3001
SHEET	192 of 270

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NOTES:

1. FLEX HOSE SIZE BY ENGINE GENERATOR MANUFACTURER.

2. INSTALL PROTECTIVE COVER PER DETAIL 2, FOR PORTIONS OF PIPING ON SLAB AND ENCLOSURE FLOOR. SUBJECT TO FOOT TRAFFIC.

3. TYPE 304 SST ESCUTCHEONS, EACH FACE.

18" STAINLESS *2 STEEL WOVEN WIRE REINFORCED FLEX HOSE, TYP SEE NOTE 1

1 1/2"-V420 TYP *1

ENCLOSURE DECK MOUNTED PIPING, TYP SEE NOTE 2

ENGINE GENERATOR ENCLOSURE WALL

4005-496C

PIPE SUPPORT SIM

1 1/2" FOR CL EL 20.75

1 1/2" FOR CL EL 13.10± SEE NOTE 2

1 1/2" FOS CL EL 20.25

1 1/2" FOS CL EL 13.10± SEE NOTE 2

4005-496C

PIPE SUPPORT TYP 4005-496C

FROM *2 ENGINE

TO ENGINE *2 FUEL FILTER

THREADED COUPLING WITH BUSHING TO ACCEPT FLEX HOSE THREADED END, TYP

PIPE SUPPORT TYP 4005-495A

SEE NOTE 3 TYP

1

PIPING DETAIL - ISOMETRIC VIEW

NTS

60-D-2001

60-D-3001

DETAIL - FLOOR MOUNTED PIPE PROTECTED COVER ENLARGED VIEW

2

NTS

NOTES:

1. COAT CHECKERPLATE WITH ALTERNATING YELLOW AND BLACK DIAGONAL HIGH VISIBILITY STRIPING.

2. INSTALLATION ON CONCRETE SHOWN. FOR INSTALLATION INSIDE ENCLOSURE EMPLOY 3/8" MACHINE SCREWS FASTENED 8" OC TO ENCLOSURE DECK PLATE.

9"

2" MAX

1 1/2" FOR

1"

1"

6"

3/8" 6061-T6 AL BENT PLATE X CONT COVER SEE NOTE 1

1 1/2" FOS

3/8" DIA SST ADHESIVE ANCHORS @ 1'-0" OC W/ 2" MIN EMBEDMENT SEE NOTE 2

CONCRETE SEE NOTE 2

CONTINUOUS NEOPRENE STRIP, TYP

4005-495C

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

PROCESS MECHANICAL
EMERGENCY STANDBY ENGINE
GENERATOR SYSTEM
DETAILS

SCALE

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 60-D-5001

SHEET 193 of 270

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DR A BARTON

CHK K WADDELL

APVD K WADDELL

NO. DATE

DSGN H POSTROZNY

BY APVD

SPWURL

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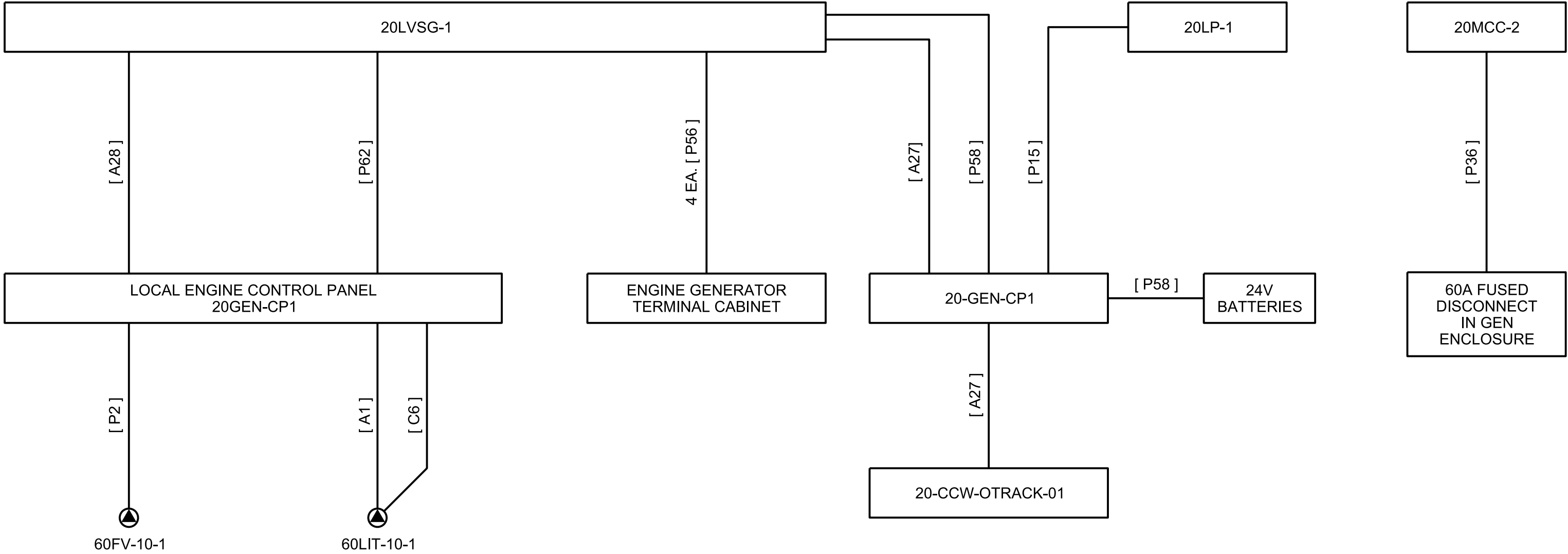
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PLOT DATE: 5/27/2021

PLOT TIME: 7:26:42 AM

RISER DIAGRAM

NTS



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ELECTRICAL
EMERGENCY STANDBY GENERATOR
RISER DIAGRAMS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

NO. DATE

REVISION

CHK

BY APVD

GT YARBERRY

DR

A PASTRANA

KB HORTON

GT YARBERRY

CHK

BY APVD

GY YARBERRY

NTS

VERIFY SCALE

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ORIGINAL DRAWING.
0 1"

DATE MAY 2021

PROJ D3226100

DWG 60-E-6001

SHEET 195 of 270

CONFORMED DOCUMENTS

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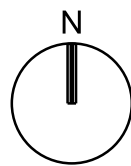
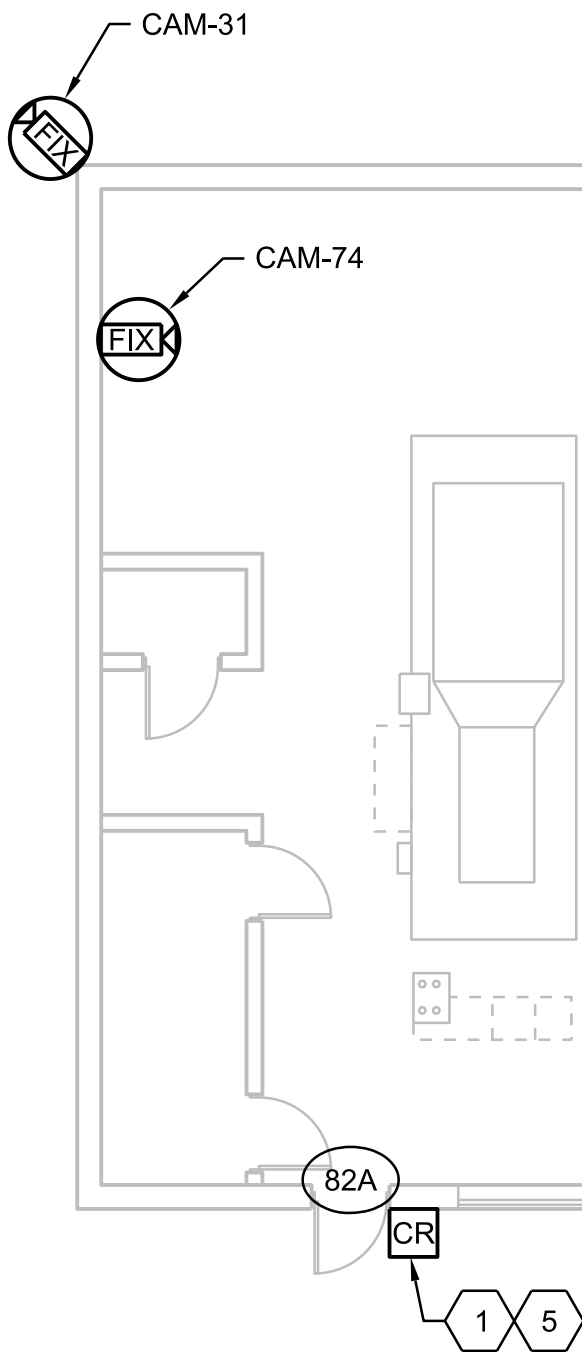
1	2
GENERAL SHEET NOTES	SHEET KEYNOTES
1. REFER TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.	1. PROVIDE CARD READER, CONTACT, REX AND ASSOCIATED LOCKING HARDWARE. CONTRACTOR TO VERIFY THE CARD READERS ARE COMPATIBLE WITH MAWSS CARDS AND TO PERFORM FIELD TESTING FOR THE CARDS.
2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS. AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.	2. DEMOLISH THE EXISTING CAMERAS, SECURITY CONTROL PANEL, SECURITY COMPONENTS, AND ALL ASSOCIATED HARDWARE, AND RETURN TO OWNER. PROVIDE NEW WALL-MOUNT ENCLOSURE WITH SECURITY EQUIPMENT AND CAMERAS.
3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.	3. ELECTRICAL CIRCUIT RESERVED FOR SECURITY EQUIPMENT.
	4. PROVIDE BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs).
	5. SECURITY CONTRACTOR TO PROVIDE DOOR ELECTRO-MAGNETIC LOCK.

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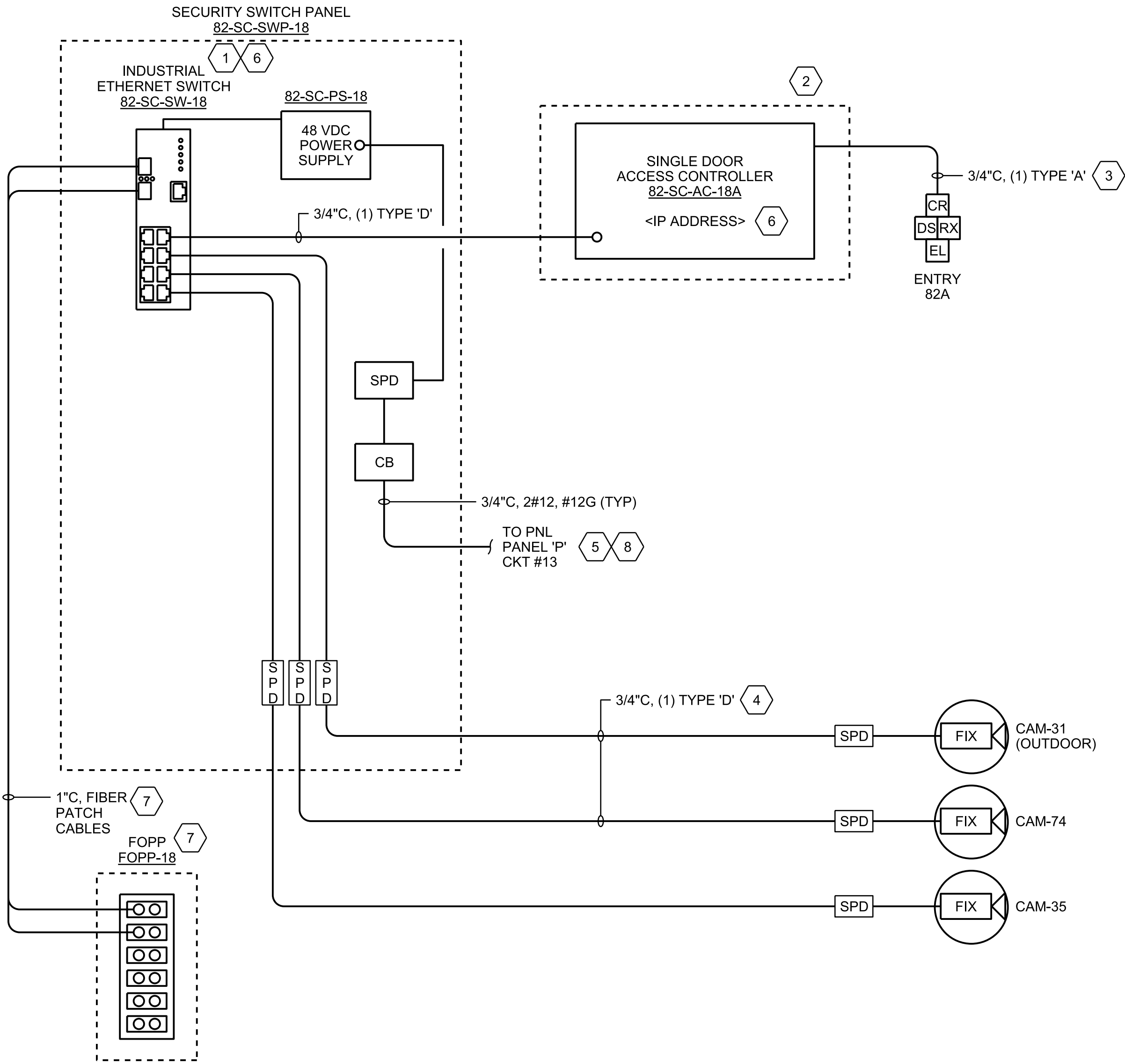
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SECURITY PLAN
1/8"=1'-0"

4	5
GENERAL SHEET NOTES	SHEET KEYNOTES
1. REFER TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.	1. INDUSTRIAL ETHERNET SWITCH: TYPE 2, PROVIDES POE NETWORK CONNECTIVITY FOR ACCESS CONTROL AND VIDEO SYSTEMS. CONNECT TO EXISTING MAWSS NETWORK.
2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS. AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.	2. ACCESS CONTROLLER: PROVIDES SINGLE DOOR ACCESS CONTROLLER KIT THAT INCLUDES INTRUSION DETECTION, CARD READER, ACCESS CONTROLLER WITH BOX, AND ELECTRONIC LOCK. PROVIDE REQUEST FOR EXIT (REX) SEPARATELY AS IT IS NOT INCLUDED IN THE KIT.
3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.	3. ACCESS CONTROL DOOR: PROVIDE RACEWAY, DEVICES, CABLING AND ELECTRIFIED DOOR HARDWARE FOR FULLY FUNCTIONAL ACCESS CONTROLLED DOOR.
	4. FIXED CAMERA: PROVIDE RACEWAY, CABLING CAMERA AND ASSOCIATED HARDWARE FOR A FULLY FUNCTIONAL CAMERA.
	5. 120 VAC POWER.
	6. IP ADDRESSES WILL BE ASSIGNED AND PROVIDED TO THE CONTRACTOR BY MAWSS IT.
	7. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs)
	8. USE THE SAME POWER FEED CIRCUIT TO POWER THE EXISTING CAMERA LIGHTS.



RISER DIAGRAM

NTS

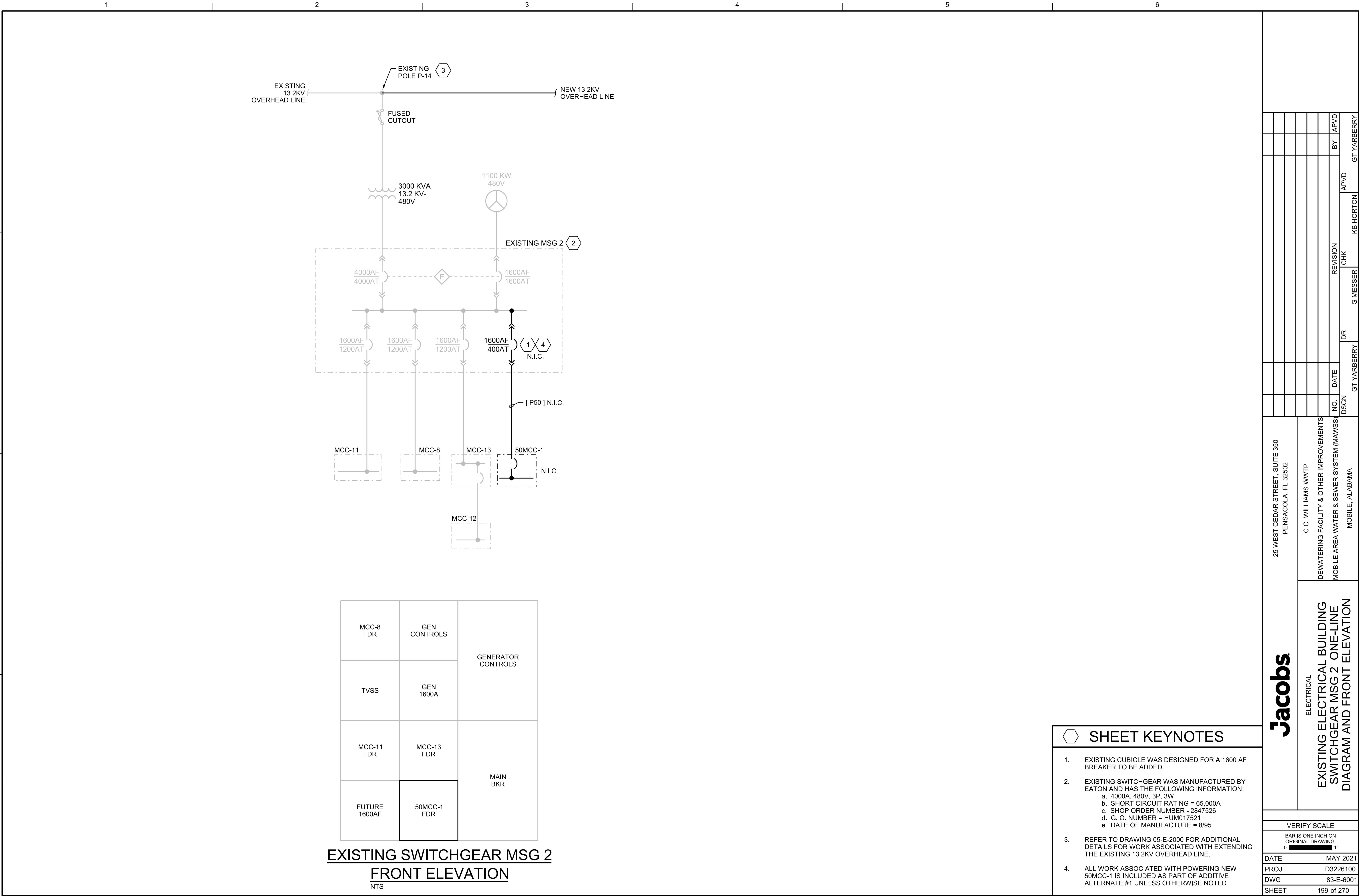


25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
MOBILE, ALABAMA

SECURITY
**EXISTING BLOWER BUILDING
SECURITY PLAN AND
RISER DIAGRAM**

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	82-TY-2001
SHEET	197 of 270

CONFORMED DOCUMENTS



Jacobs

ELECTRICAL

EXISTING ELECTRICAL BUILDING SWITCHGEAR MSG 2 ONE-LINE DIAGRAM AND FRONT ELEVATION

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

GT YARBERRY
DSGN

GT YARBERRY
DR

G MESSER
CHK

KB HORTON
APVD

GT YARBERRY
BY

GT YARBERRY
APVD

NO. DATE

REVISION

BY

APVD

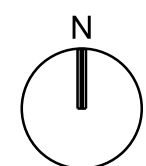
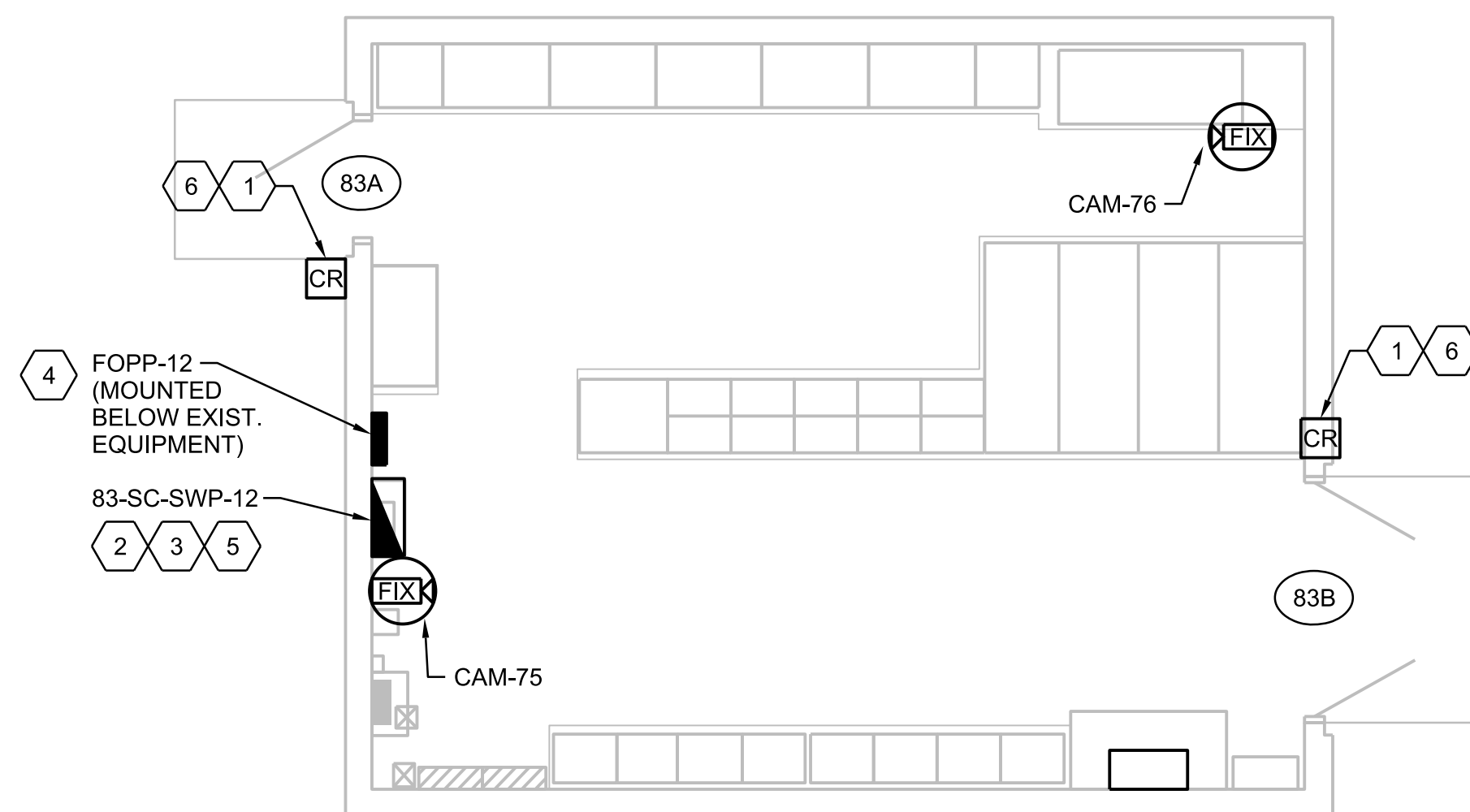
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GENERAL SHEET NOTES

1. REFERENCE TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS, AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.
3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.



SECURITY PLAN

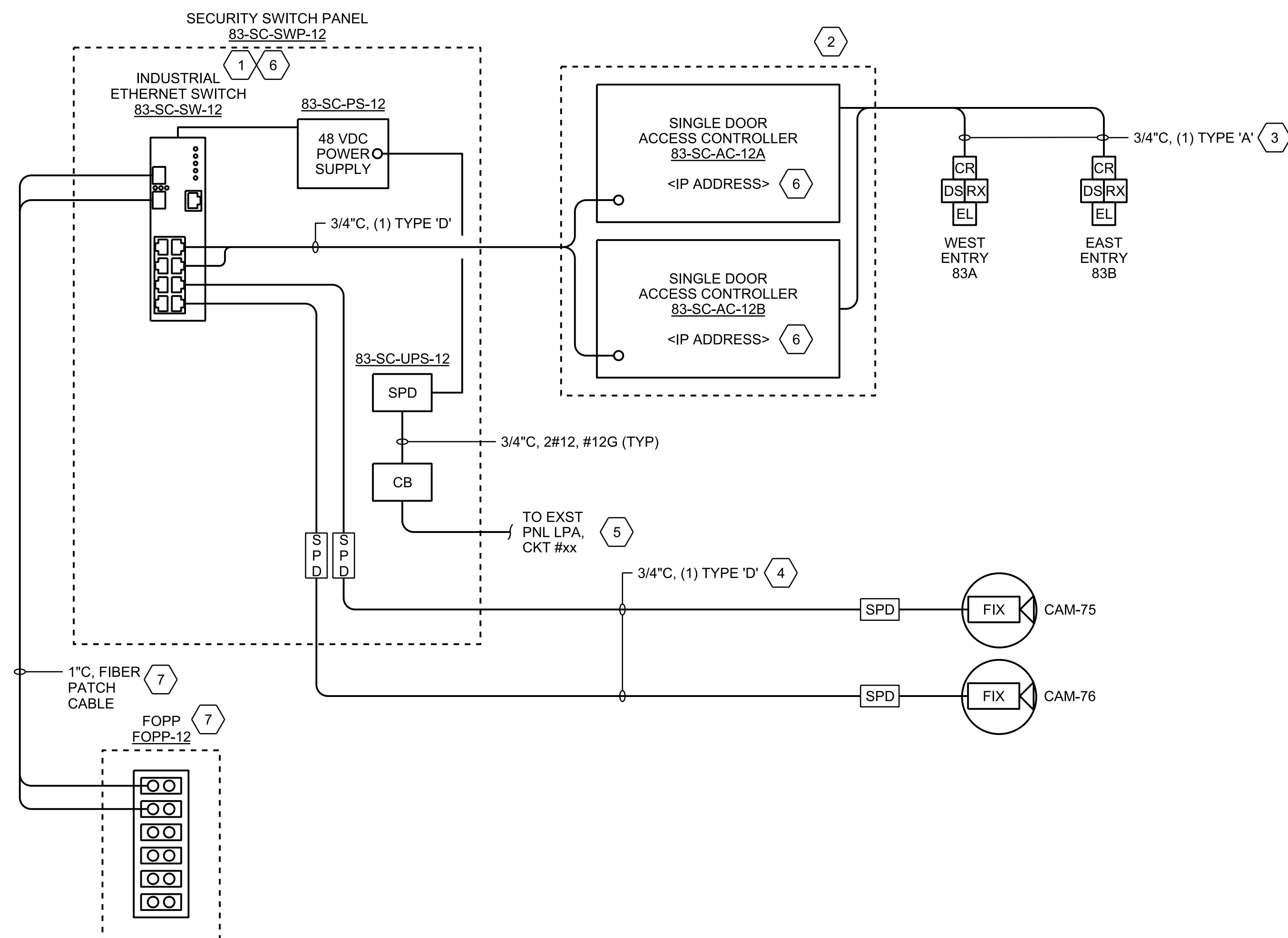
1/4"=1'-0'

SHEET KEYNOTES

1. PROVIDE CARD READER, CONTACT, REX AND ASSOCIATED LOCKING HARDWARE. CONTRACTOR TO VERIFY THE CARD READERS ARE COMPATIBLE WITH MAWSS CARDS AND TO PERFORM FIELD TESTING FOR THE CARDS.
2. DEMOLISH THE EXISTING CAMERAS, SECURITY CONTROL PANEL, SECURITY COMPONENTS, AND ALL ASSOCIATED HARDWARE, AND RETURN TO OWNER. PROVIDE NEW WALL-MOUNT ENCLOSURE WITH SECURITY EQUIPMENT AND CAMERAS.
3. ELECTRICAL CIRCUIT RESERVED FOR SECURITY EQUIPMENT.
4. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICS).
5. MOUNT NEW SECURITY PANEL ON THE SAME LOCATION OF OLD SECURITY BOX. REPLACE THE EXISTING SECURITY BOX.
6. SECURITY CONTRACTOR TO PROVIDE DOOR ELECTRO-MAGNETIC LOCK.

GENERAL SHEET NOTES

1. REFERENCE TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS, AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.
3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.



RISER DIAGRAM

NTS

SHEET KEYNOTES

1. INDUSTRIAL ETHERNET SWITCH: TYPE 2, PROVIDES POE NETWORK CONNECTIVITY FOR ACCESS CONTROL AND VIDEO SYSTEMS. CONNECT TO EXISTING MAWSS NETWORK.
2. ACCESS CONTROLLER: PROVIDES SINGLE DOOR ACCESS CONTROLLER KIT THAT INCLUDES INTRUSION DETECTION, CARD READER, ACCESS CONTROLLER WITH BOX, AND ELECTRONIC LOCK. PROVIDE REQUEST FOR EXIT (REX) SEPARATELY AS IT IS NOT INCLUDED IN THE KIT.
3. ACCESS CONTROL DOOR: PROVIDE RACEWAY, DEVICES, CABLING AND ELECTRIFIED DOOR HARDWARE FOR FULLY FUNCTIONAL ACCESS CONTROLLED DOOR.
4. FIXED CAMERA: PROVIDE RACEWAY, CABLING CAMERA AND ASSOCIATED HARDWARE FOR A FULLY FUNCTIONAL CAMERA.
5. 120 VAC POWER.
6. IP ADDRESSES WILL BE ASSIGNED AND PROVIDED TO THE CONTRACTOR BY MAWSS IT.
7. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs)

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

Jacobs

SECURITY EXISTING ELECTRICAL BUILDING SECURITY PLAN AND RISER DIAGRAM

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
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FILENAME: 83-TY-2001 D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 7:24:09 AM

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UNLESS OTHERWISE NOTED.

GENERAL SHEET NOTES

1.

REPLACE EXISTING DIGESTER SLUDGE PUMPS WITH LARGER CAPACITY PUMPS OF SIMILAR DESIGN. THE CONTRACTOR WILL BE RESPONSIBLE FOR MODIFYING SUCTION AND DISCHARGE PIPING TO ALLOW PUMP TO FIT AND PROVIDE A FULLY FUNCTIONAL SYSTEM.
2.

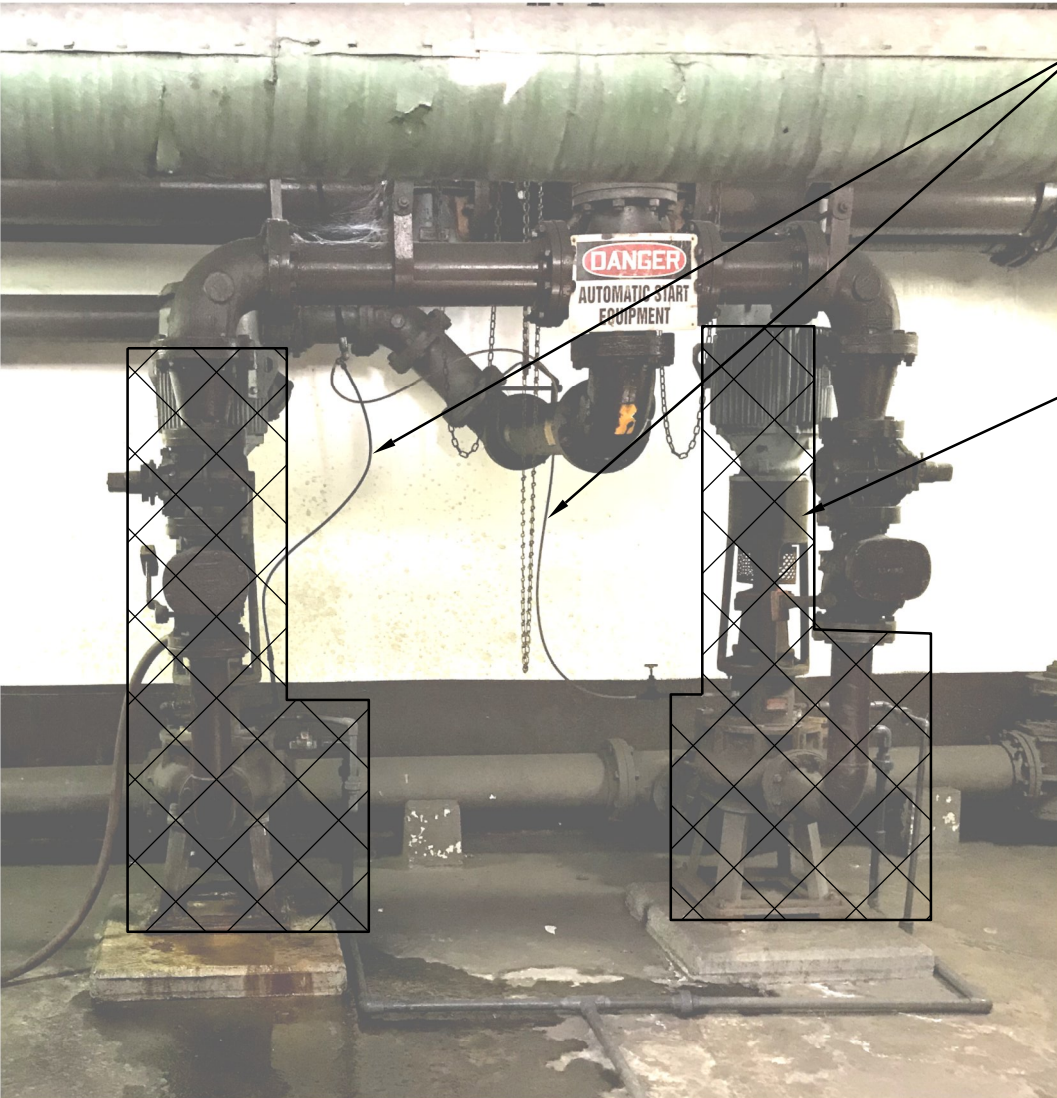
FOR RECORD DRAWINGS ASSOCIATED WITH THIS FACILITY, SEE EXISTING MOBILE SEWAGE TREATMENT PLANT, SLUDGE DIGESTER TANKS PIPING AND EQUIPMENT DRAWINGS 771-K3 1956.
3.

RECONNECT EXISTING PUMP SEAL WATER DRAIN PIPING, AND AIR VENT PIPE AT EACH PUMP. ADJUST AND ADD TO EXISTING PIPING AS NEEDED TO MAKE CONNECTIONS TO THE NEW LARGE PUMPS.
4.

PROVIDE NEW PUMP DISCHARGE 90 DEGREE BENDS WITH A TAPPING BOSS. INSTALL A 1" TAP ON EACH 90 DEGREE BEND AND INSTALL A 1" SST NIPPLE, 1" SST BALL VALVE, AND 1" QUICK CONNECT.
5.

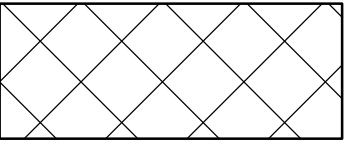
INSTALL PRESSURE GAUGE BETWEEN THE EXISTING VALVE AND REDUCER. ADD A PIECE OF SPOOL PIPE BETWEEN THE NEW 90 BEND AND CHECK VALVE TO ACCOUNT FOR THE SPACE NECESSARY TO INSTALL THE PRESSURE GAUGE.
6.

EXISTING PUMPS TO BE SALVAGED AND RETAINED ON SITE FOR OWNER.



NOTE 3

DEMOLISH EXST DIGESTER
SLUDGE PUMP.
TYP OF 2



DEMOLISH

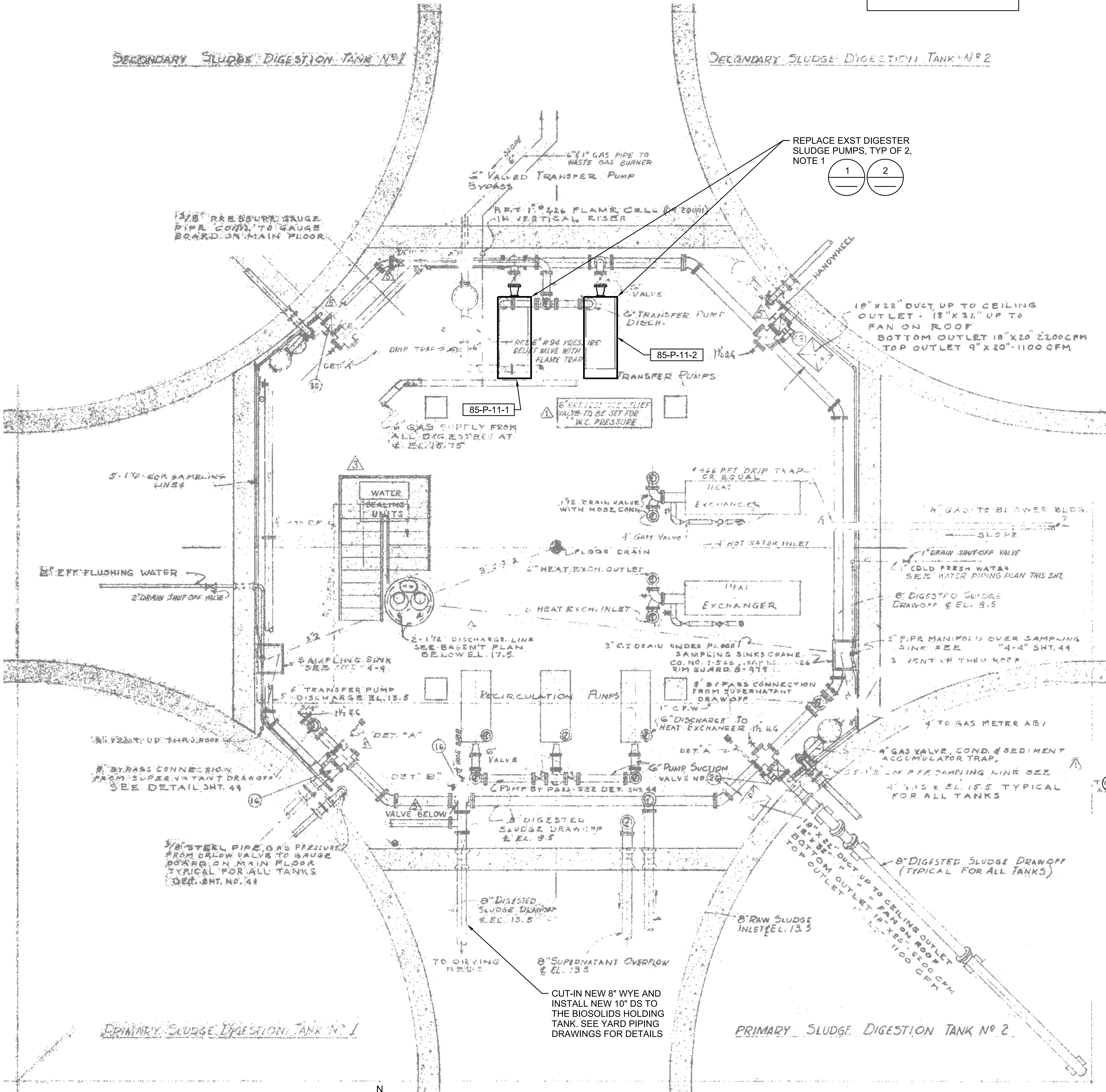
1
DETAIL
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NEW PUMP MOTOR,
TYP OF 2

REPLACE W/ NEW
DIGESTER SLUDGE
PUMP, TYP OF 2
AURORA MODEL 663,
PER SPECIFICATION
44 42 56.12

2
DETAIL
NTS



BASEMENT FLOOR PLAN
1/4"=1'-0"

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

Jacobs
PROCESS MECHANICAL
EXISTING SECONDARY
DIGESTER BUILDING
PLAN AND ISOMETRIC

SCALE	
VERIFY SCALE	
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ELECTRICAL EXISTING SECONDARY DIGESTER BUILDING UPPER LEVEL POWER PLAN

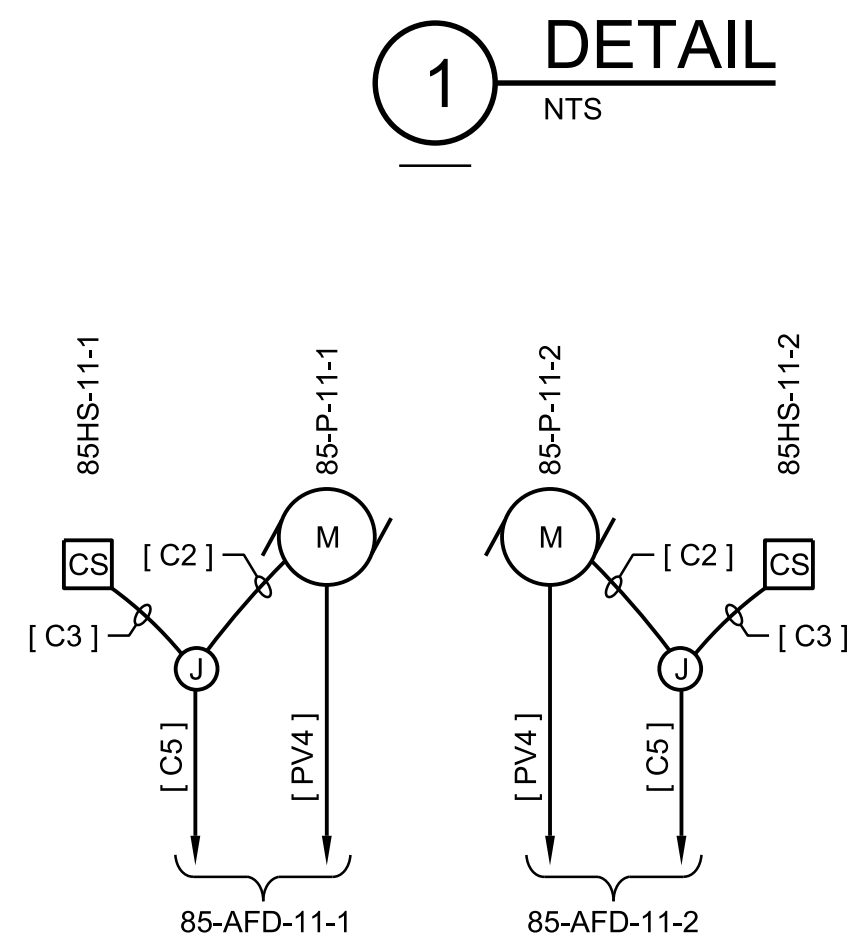
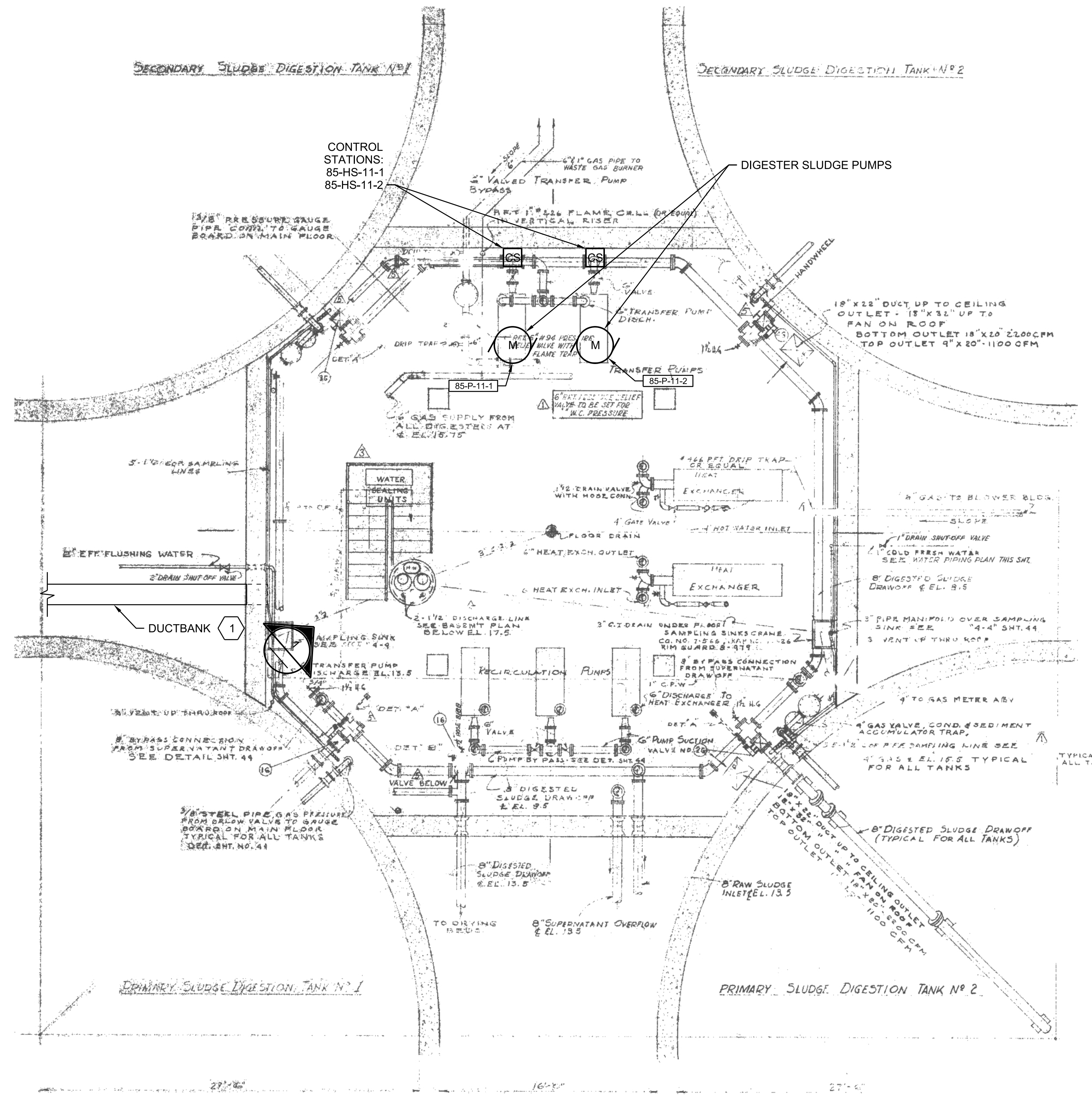
25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA	THIS DOCUMENT, THE REAS AND DESIGN HIGHER ANALYSTS TO BE USED IN VARIOUS DOCUMENTS
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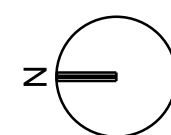
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NOTED



1 DETAIL
NTS

RISER DIAGRAM



LOWER LEVEL POWER PLAN

SHEET KEYNOTES

1. ENTER BUILDING AT BASEMENT LEVEL. ROUTE CONDUCTORS TO EQUIPMENT ON GROUND FLOOR. SEE 85-E-2001.
2. LOCATE CONTROL STATION ON WALL, COORDINATE WITH OWNER.

Jacobs.

ELECTRICAL

EXISTING SECONDARY
DIGESTER BUILDING
LOWER LEVEL POWER PLAN

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
MOBILE, ALABAMA

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BILE, ALABAMA

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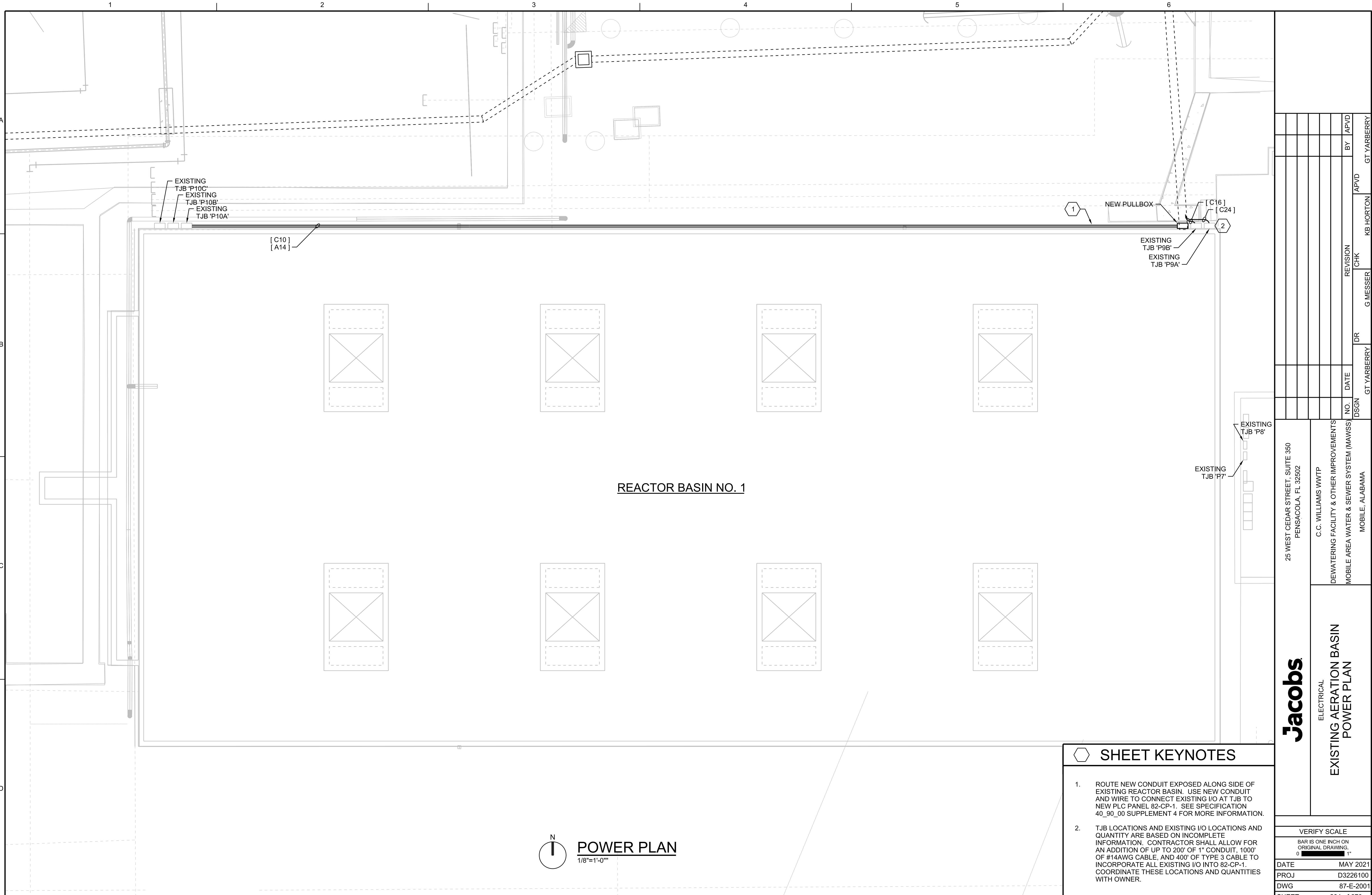
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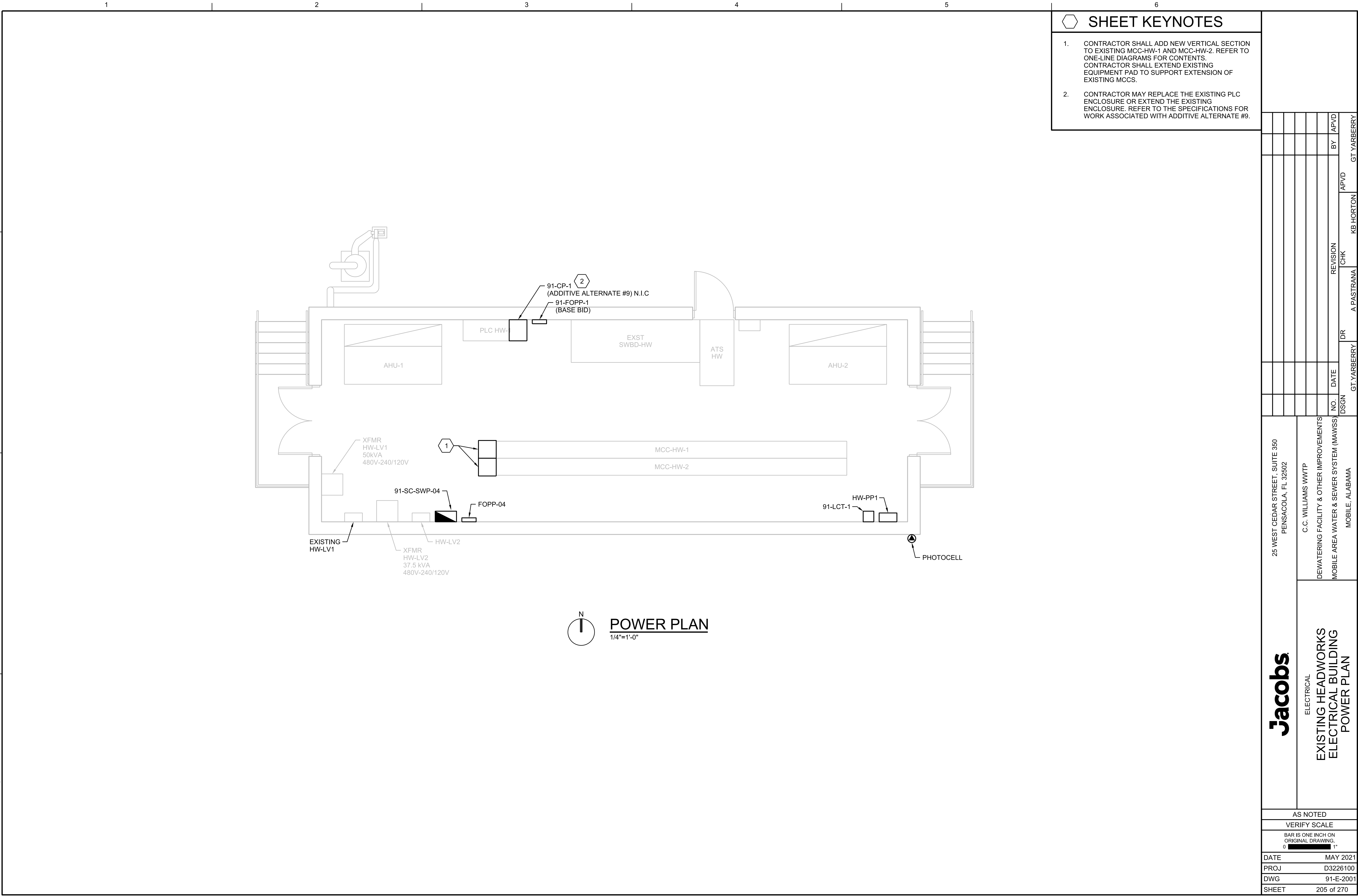
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SHEET KEYNOTES

- 1. CONTRACTOR SHALL ADD NEW VERTICAL SECTION TO EXISTING MCC-HW-1 AND MCC-HW-2. REFER TO ONE-LINE DIAGRAMS FOR CONTENTS. CONTRACTOR SHALL EXTEND EXISTING EQUIPMENT PAD TO SUPPORT EXTENSION OF EXISTING MCCS.
- 2. CONTRACTOR MAY REPLACE THE EXISTING PLC ENCLOSURE OR EXTEND THE EXISTING ENCLOSURE. REFER TO THE SPECIFICATIONS FOR WORK ASSOCIATED WITH ADDITIVE ALTERNATE #9.

<div>Jacobs</div> <div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div>	<div>ELECTRICAL</div> <div>EXISTING HEADWORKS ELECTRICAL BUILDING POWER PLAN</div>	<div>C.C. WILLIAMS WWTP</div> <div>DEWATERING FACILITY & OTHER IMPROVEMENTS</div> <div>MOBILE AREA WATER & SEWER SYSTEM (MAVSS)</div> <div>MOBILE, ALABAMA</div>
AS NOTED		
VERIFY SCALE		
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 <div></div> 1"		
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PROJ.	D3226100	
DWG	91-E-2001	
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1

GENERAL SHEET NOTES

1. REFER TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS. AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.

3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.

2

SHEET KEYNOTES

1. PROVIDE CARD READER, CONTACT, REX AND ASSOCIATED LOCKING HARDWARE. CONTRACTOR TO VERIFY THE CARD READERS ARE COMPATIBLE WITH MAWSS CARDS AND TO PERFORM FIELD TESTING FOR THE CARDS.

2. DEMOLISH THE EXISTING CAMERAS, SECURITY CONTROL PANEL, SECURITY COMPONENTS, AND ALL ASSOCIATED HARDWARE, AND RETURN TO OWNER. PROVIDE NEW WALL-MOUNT ENCLOSURE WITH SECURITY EQUIPMENT AND CAMERAS.

3. ELECTRICAL CIRCUIT RESERVED FOR SECURITY EQUIPMENT.

4. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs).

5. SECURITY CONTRACTOR TO PROVIDE DOOR ELECTRO-MAGNETIC LOCK.

3

4

GENERAL SHEET NOTES

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5

SHEET KEYNOTES

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2. ACCESS CONTROLLER: PROVIDES SINGLE DOOR ACCESS CONTROLLER KIT THAT INCLUDES INTRUSION DETECTION, CARD READER, ACCESS CONTROLLER WITH BOX, AND ELECTRONIC LOCK. PROVIDE REQUEST FOR EXIT (REX) SEPARATELY AS IT IS NOT INCLUDED IN THE KIT.

3. ACCESS CONTROL DOOR: PROVIDE RACEWAY, DEVICES, CABLING AND ELECTRIFIED DOOR HARDWARE FOR FULLY FUNCTIONAL ACCESS CONTROLLED DOOR.

4. FIXED CAMERA: PROVIDE RACEWAY, CABLING CAMERA AND ASSOCIATED HARDWARE FOR A FULLY FUNCTIONAL CAMERA.

5. 120 VAC POWER.

6. IP ADDRESSES WILL BE ASSIGNED AND PROVIDED TO THE CONTRACTOR BY MAWSS IT.

7. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs)

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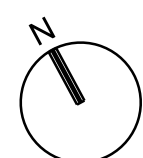
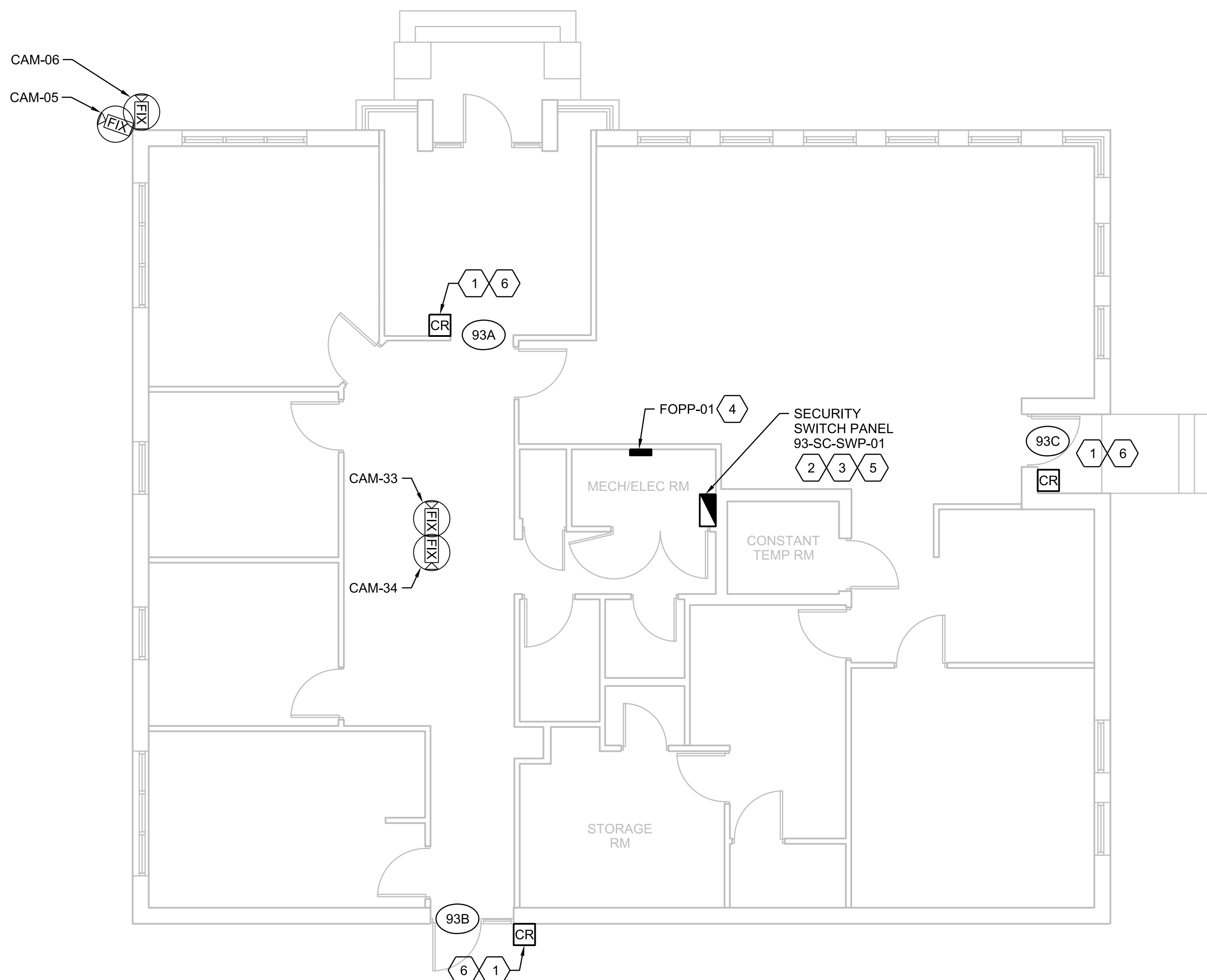
53

GENERAL SHEET NOTES

1. REFERENCE TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. THIS PLAN DEPICTS THE GENERAL LOCATION OF EQUIPMENT, FIELD DEVICES AND CABLE PATHWAYS, AVOID CONFLICTS WITH EXISTING EQUIPMENT AND COORDINATE FINAL MOUNTING LOCATIONS AND RACEWAY ROUTING WITH OWNER.
3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.

SHEET KEYNOTES

1. PROVIDE CARD READER, CONTACT, REX AND ASSOCIATED LOCKING HARDWARE. CONTRACTOR TO VERIFY THE CARD READERS ARE COMPATIBLE WITH MAWSS CARDS AND TO PERFORM FIELD TESTING FOR THE CARDS.
2. DEMOLISH THE EXISTING CAMERAS, SECURITY CONTROL PANEL, SECURITY COMPONENTS, AND ALL ASSOCIATED HARDWARE, AND RETURN TO OWNER. PROVIDE NEW WALL-MOUNT ENCLOSURE WITH SECURITY EQUIPMENT AND CAMERAS.
3. ELECTRICAL CIRCUIT RESERVED FOR SECURITY EQUIPMENT.
4. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PGCS).
5. MOUNT THE SECURITY CONTROL PANEL 4-6 INCHES FROM THE FACE OF THE EXISTING WALL TO ENABLE THE EXISTING CABLES TO REMAIN "AS IS". SUPPORT THE NEW SECURITY PANEL WITH ONE PIECE OF UNISTRUT TO BE INSTALLED VERTICALLY ON EACH SIDE OF THE SECURITY PANEL (ONE ON LEFT SIDE AND ONE ON RIGHT SIDE) AND THEN TO INSTALL TWO ADDITIONAL PIECES OF UNISTRUT (ONE AT THE TOP OF THE PANEL AND ONE AT THE BOTTOM OF THE PANEL) MOUNTED HORIZONTALLY THAT ARE ATTACHED TO THE OTHER TWO PIECES OF UNISTRUT. RE-SIZE THE DEPTH OF THE SECURITY CONTROL PANEL AS NEEDED TO FIT PROPERLY THE LOCATION.
6. SECURITY CONTRACTOR TO PROVIDE DOOR ELECTRO-MAGNETIC LOCK.



SECURITY PLAN

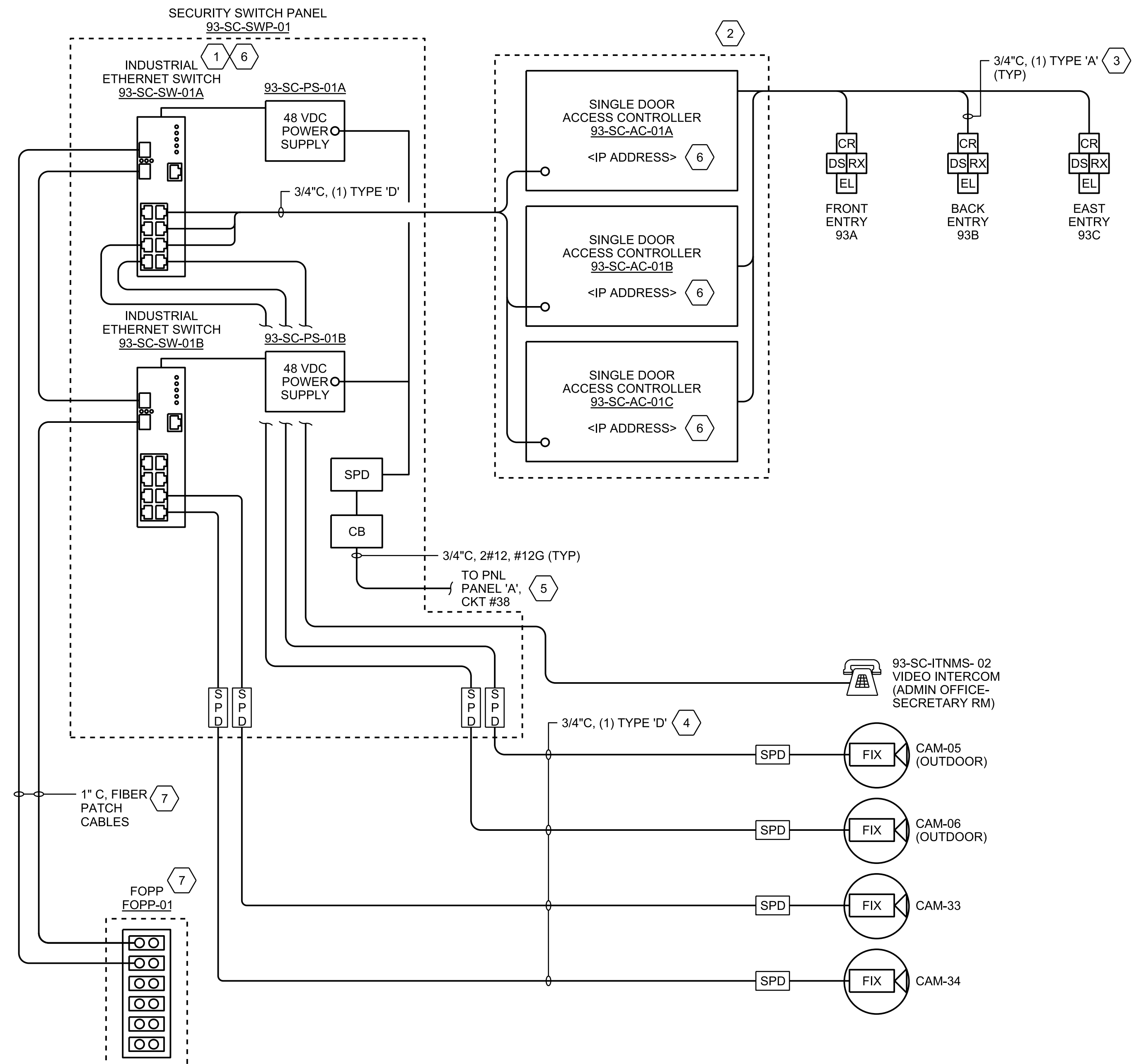
$$3/16" = 1'-0"$$

GENERAL SHEET NOTES

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3. EQUIPMENT, FIELD DEVICES, CABLE AND CONDUITS SHALL BE LABELLED WITH APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.

SHEET KEYNOTES

- | | | | |
|----|--|----|--|
| 1. | INDUSTRIAL ETHERNET SWITCH: TYPE 2, PROVIDES POE NETWORK CONNECTIVITY FOR ACCESS CONTROL AND VIDEO SYSTEMS. CONNECT TO EXISTING MAWSS NETWORK. | 4. | FIXED CAMERA: PROVIDE RACEWAY, CABLING CAMERA AND ASSOCIATED HARDWARE FOR A FULLY FUNCTIONAL CAMERA. |
| 2. | ACCESS CONTROLLER: PROVIDES SINGLE DOOR ACCESS CONTROLLER KIT THAT INCLUDES INTRUSION DETECTION, CARD READER, ACCESS CONTROLLER WITH BOX, AND ELECTRONIC LOCK. PROVIDE REQUEST FOR EXIT (REX) SEPARATELY AS IT IS NOT INCLUDED IN THE KIT. | 5. | 120 VAC POWER. |
| 3. | ACCESS CONTROL DOOR: PROVIDE RACEWAY, DEVICES, CABLING AND ELECTRIFIED DOOR HARDWARE FOR FULLY FUNCTIONAL ACCESS CONTROLLED DOOR. | 6. | IP ADDRESSES WILL BE ASSIGNED AND PROVIDED TO THE CONTRACTOR BY MAWSS IT. |
| | | 7. | PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs). |



RISER DIAGRAM

NTS

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

MOBILE ALABAMA

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS I HAVE

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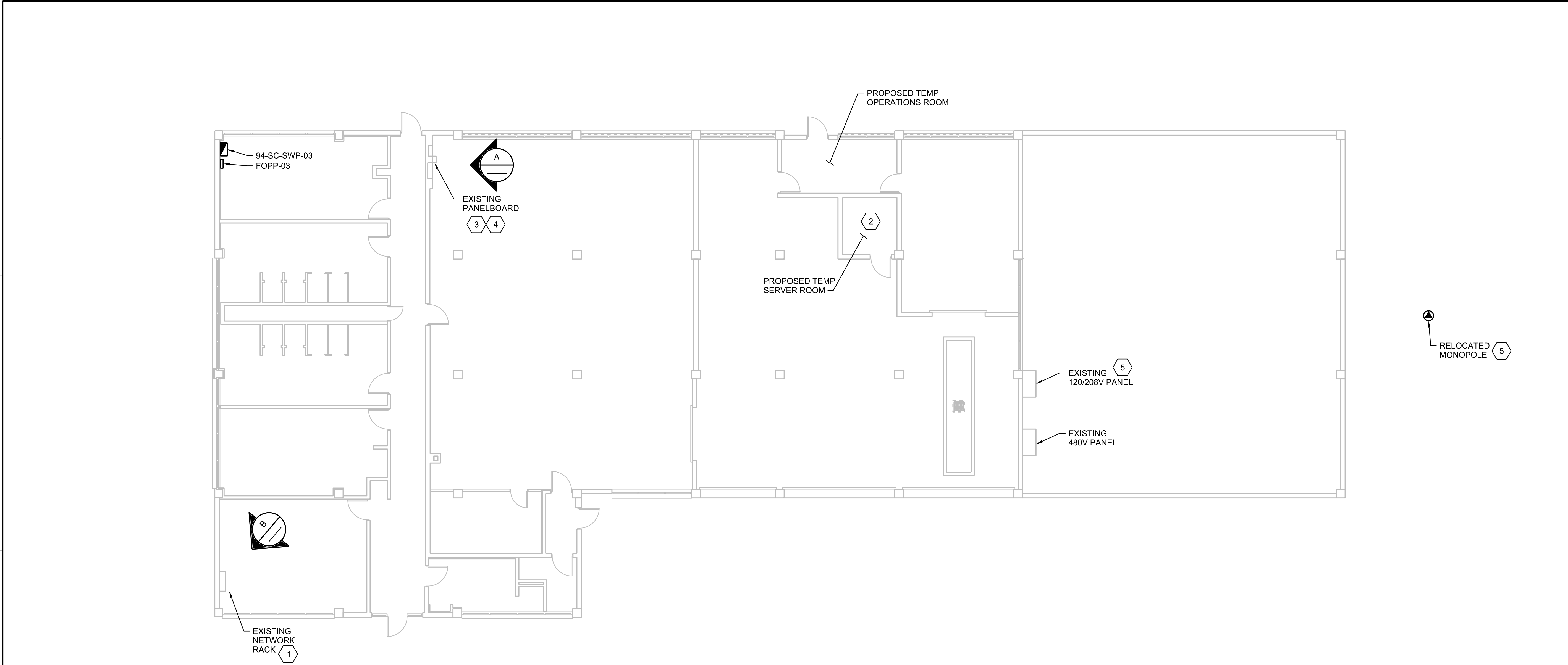
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CONFIRMED DOCUMENTS

Jacobs

EXISTING ADMINISTRATION BUILDING SECURITY PLAN AND RISER DIAGRAM

<p>VERIFY SCALE</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING.</p> <p>0  1"</p>	
DATE	MAY 2021
PROJ	D3226100
DWG	93-TY-2001
SHEET	212 of 270



MAINTENANCE PLAN
1/8"=1'-0"



EXISTING PANELBOARD

A PHOTO
NTS



EXISTING NETWORK RACK

B PHOTO
NTS

SHEET KEYNOTES

- CONTRACTOR SHALL PROVIDE A [1"C - CAT 6] CABLE FROM THE EXISTING NETWORK RACK TO THE RELOCATED RACK LOCATED WITHIN THE TEMPORARY SERVER ROOM.
- CONTRACTOR SHALL RELOCATE EXISTING SERVER RACK AND CONTROL EQUIPMENT FROM THE EXISTING OPERATIONS BUILDING. ALL RELOCATED EQUIPMENT MUST BE OPERATIONAL BEFORE CONTRACTOR CAN DEMOLISH EXISTING OPERATIONS BUILDING. REFER TO THE SPECIFICATION FOR DETAILS.
- CONTRACTOR SHALL PROVIDE [3/4"C, 2#12, 1#12G] FROM EXISTING 240/120V PANELBOARD SHOWN TO NEW SECURITY PANEL.
- CONTRACTOR SHALL PROVIDE AND INSTALL A 20A/1P BREAKER IN CIRCUIT 17 OF EXISTING PANELBOARD TO POWER THE NEW SECURITY PANEL.
- CONTRACTOR SHALL PROVIDE [3/4"C, 2#12, 1#12G] FROM SPARE 20A/1P BREAKER TO POWER RELOCATED MONOPOLE. SEE DRAWING 06-E-2004 FOR LOCATION.

Jacobs

ELECTRICAL
MAINTENANCE BUILDING
PLAN

S NOTED	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	94-E-2001
SHEET	213 of 270

CONFORMED DOCUMENTS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE DEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.

GT YARBERRY		A PASTRANA		KB HORTON		GT YARBERRY	
NO.	DATE	DR	CHK	REVISION	BY	APVD	GT YARBERRY
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GENERAL SHEET NOTES

1. REFER TO DRAWING 01-G-0023 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
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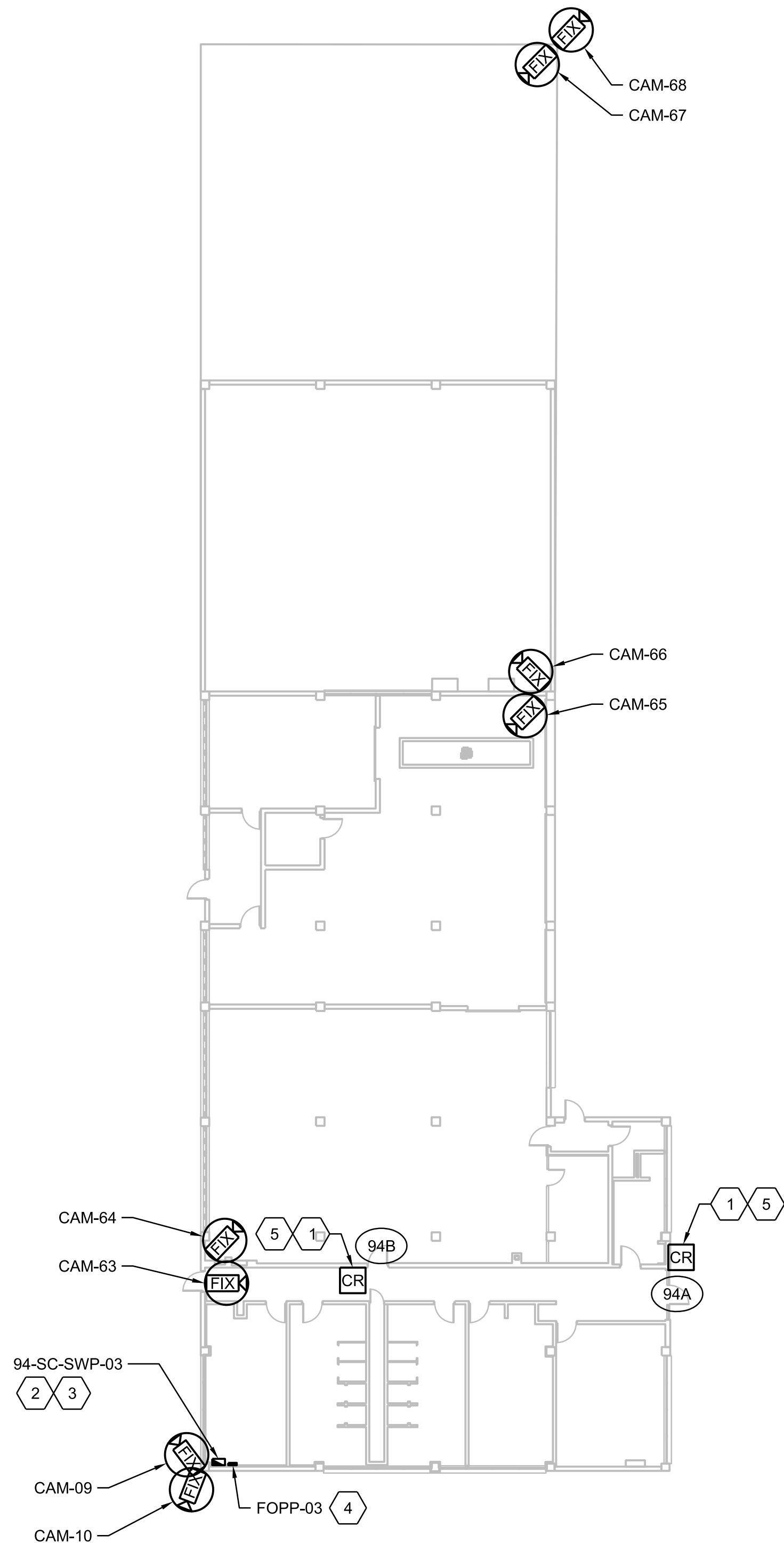
SHEET KEYNOTES

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2. DEMOLISH THE EXISTING CAMERAS, SECURITY CONTROL PANEL, SECURITY COMPONENTS, AND ALL ASSOCIATED HARDWARE, AND RETURN TO OWNER. PROVIDE NEW WALL-MOUNT ENCLOSURE WITH SECURITY EQUIPMENT AND CAMERAS.
3. ELECTRICAL CIRCUIT RESERVED FOR SECURITY EQUIPMENT.

4. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs).

5. SECURITY CONTRACTOR TO PROVIDE DOOR ELECTRO-MAGNETIC LOCK.



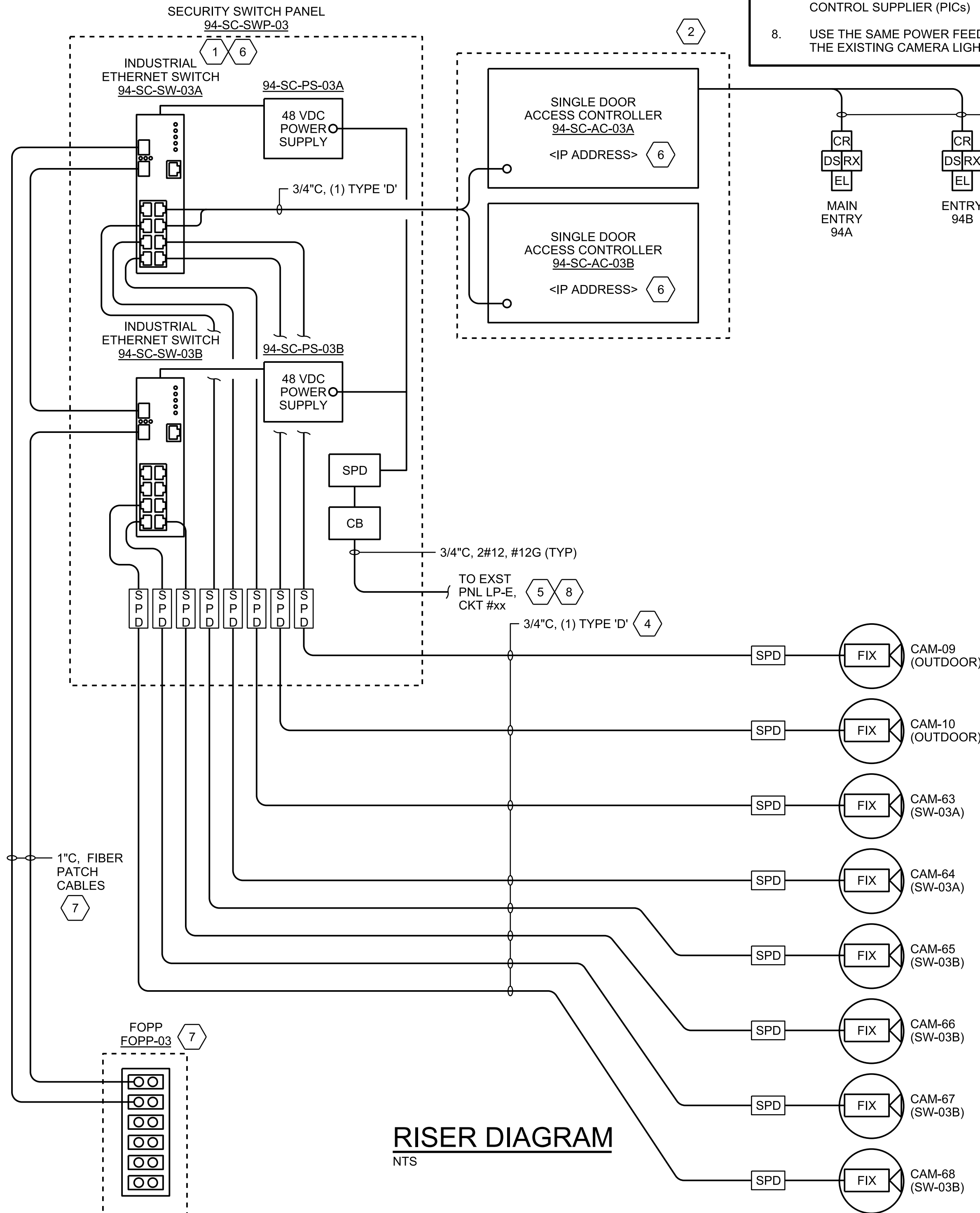
SECURITY PLAN
1/16"=1'-0"

GENERAL SHEET NOTES

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4. FIXED CAMERA: PROVIDE RACEWAY, CABLING CAMERA AND ASSOCIATED HARDWARE FOR A FULLY FUNCTIONAL CAMERA.
5. 120 VAC POWER.
6. IP ADDRESSES WILL BE ASSIGNED AND PROVIDED TO THE CONTRACTOR BY MAWSS IT.
7. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs)
8. USE THE SAME POWER FEED CIRCUIT TO POWER THE EXISTING CAMERA LIGHTS.



RISER DIAGRAM
NTS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)

MOBILE, ALABAMA

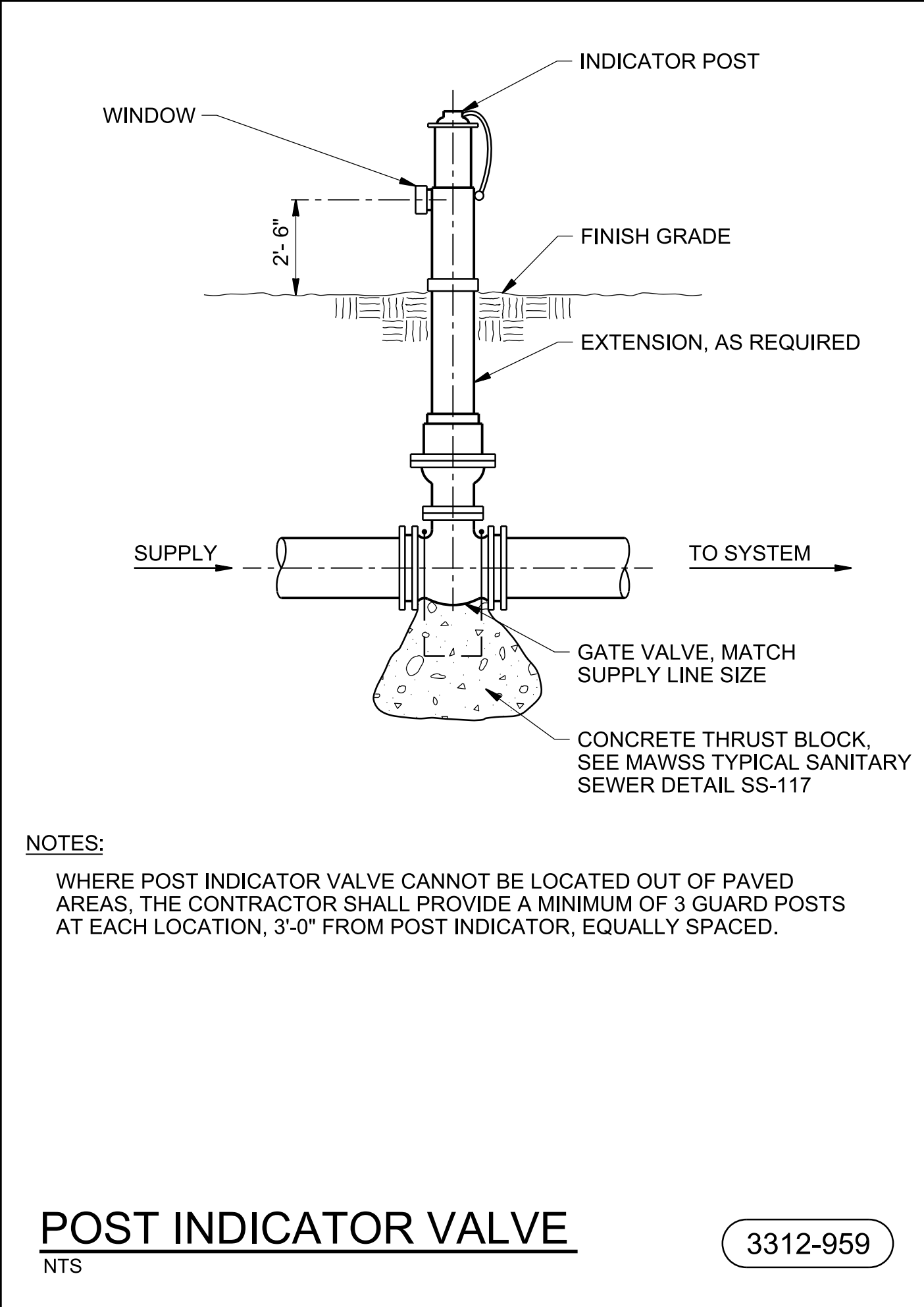
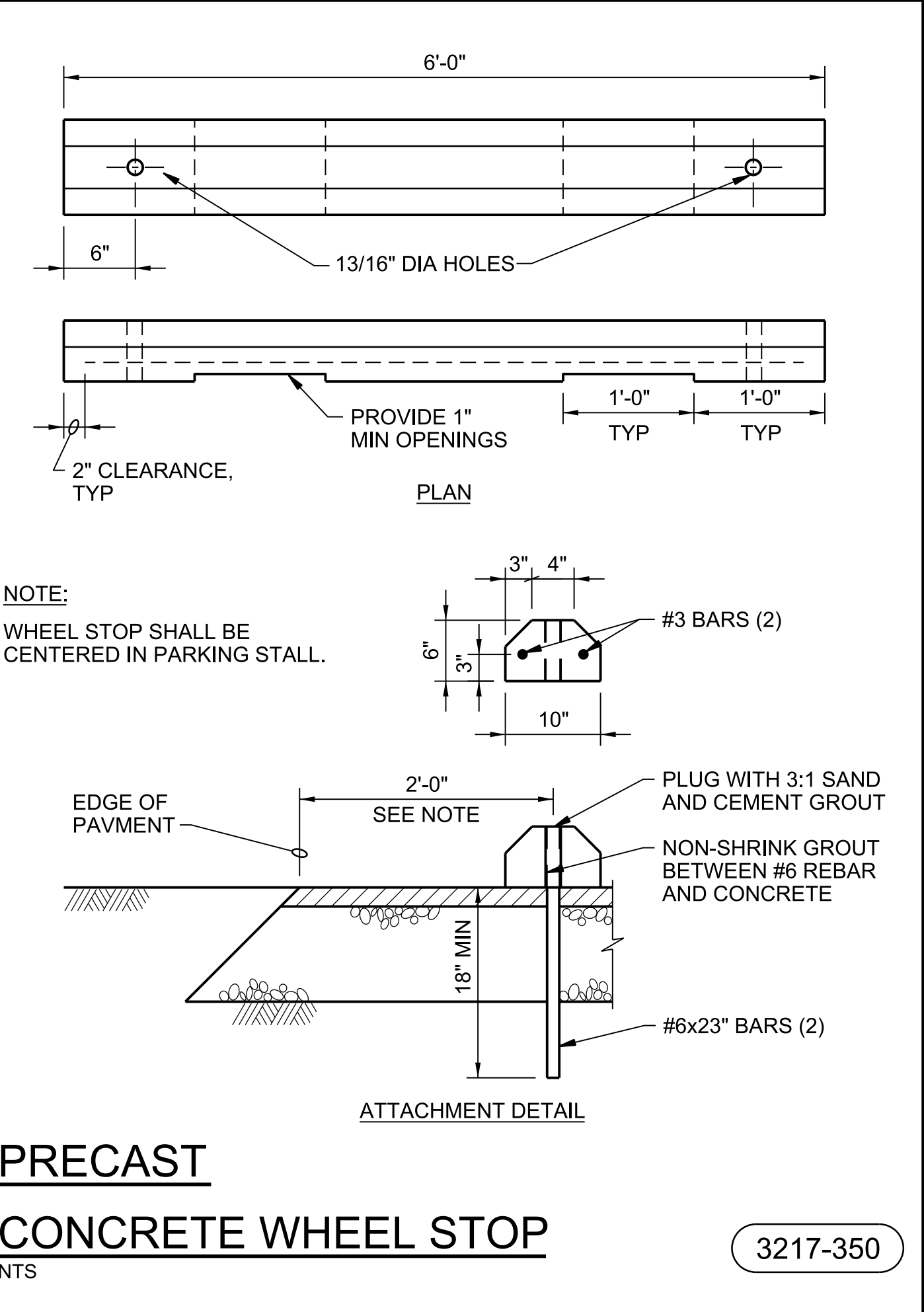
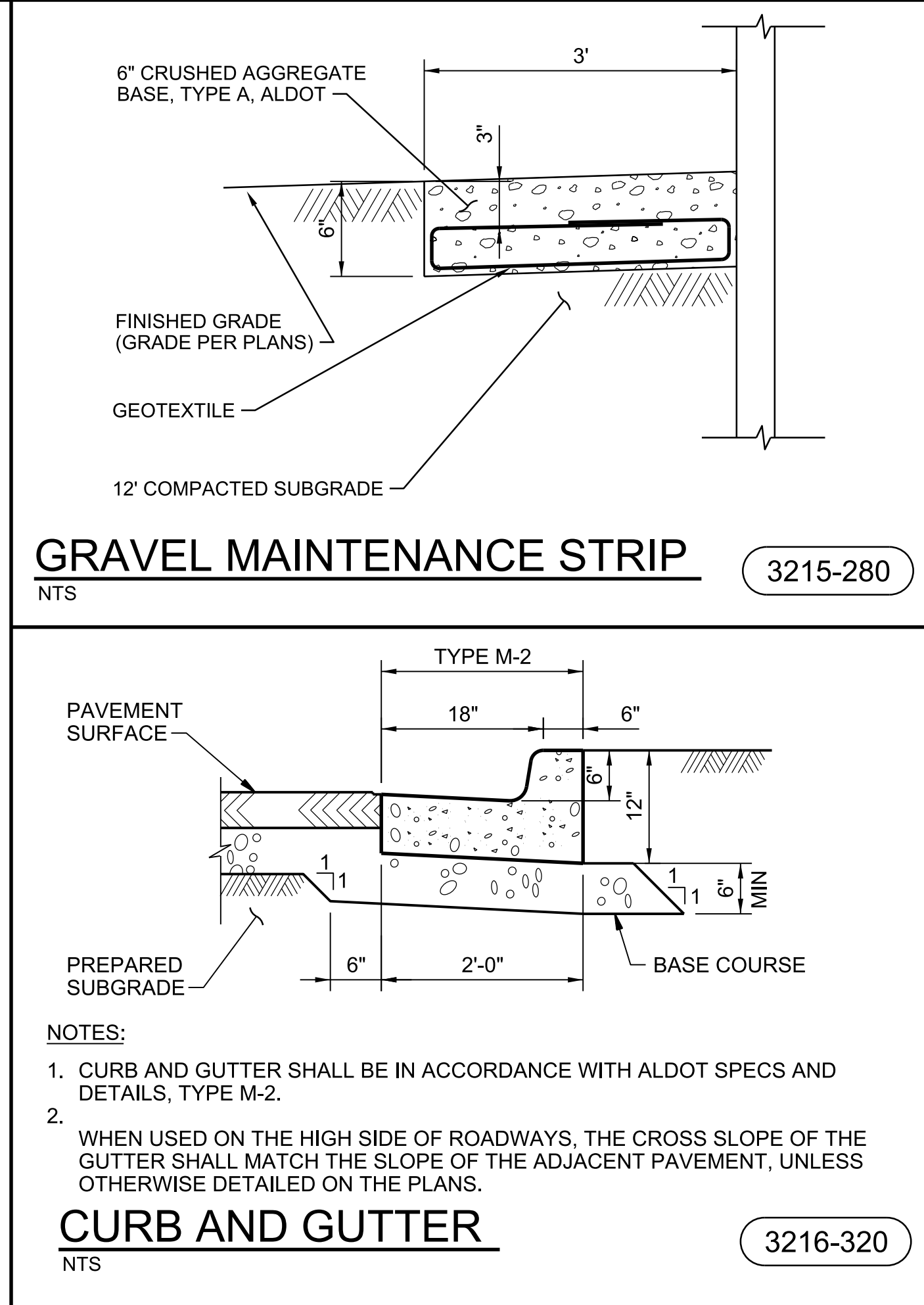
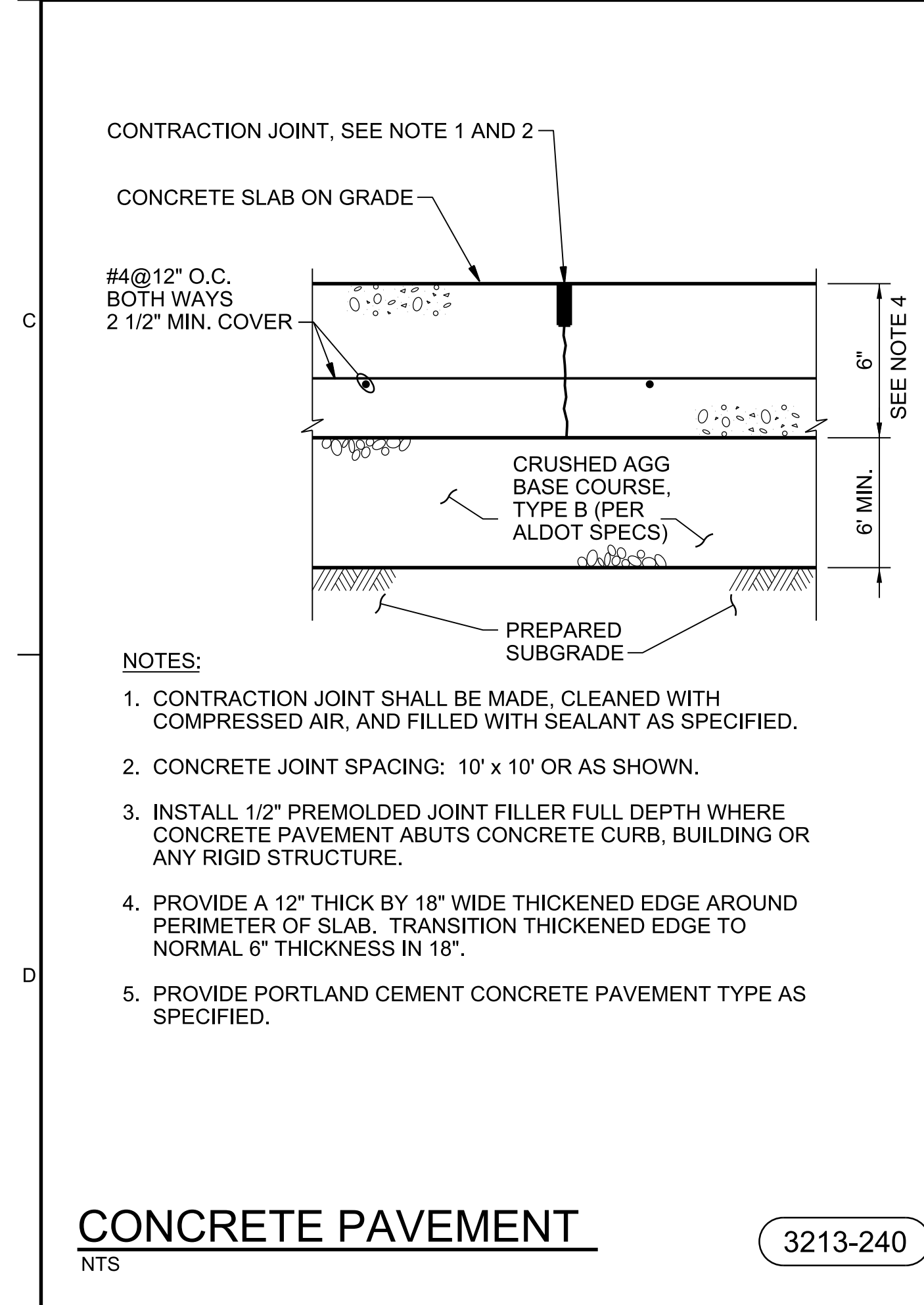
SECURITY
EXISTING MAINTENANCE BUILDING
SECURITY PLAN AND
RISER DIAGRAM

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2021
PROJ	D3226100
DWG	94-TY-2001
SHEET	214 of 270

CONFORMED DOCUMENTS

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[illegible]

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6

1/4 TURN LOW LEAD BRASS BALL VALVE

REDUCED PRESSURE ZONE BACKFLOW PREVENTER

1/4 TURN LOW LEAD BRASS BALL VALVE

GALVANIZED 90 DEG ELBOW

LOW LEAD BRASS NIPPLE

GALVANIZED PIPE

4"

GALVANIZED PIPE

FROM WATER METER

FLOW

GALVANIZED 90 DEG ELBOW

TEST COCK ON VALVE

12" MIN
36" MAX.

MIN 6" GRAVEL BED (NO. 57 STONE)

GALVANIZED 90 DEG ELBOW

LOW LEAD BRASS NIPPLE

GALVANIZED PIPE

FINAL GRADE

GALVANIZED PIPE

FLOW

TO STRUCTURE

NOTES:

1. INSTALL AN INSULATED BOX OVER THE ASSEMBLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE BOX TO THE ENGINEER FOR APPROVAL.

BRASS BACKFLOW PREVENTER CONSTRUCTION

SINGLE SERVICE 3/4" TO 2"

NTS

4027-010

GATE VALVE, NRS, FL X FL

REDUCED PRESSURE CHECK VALVE

GATE VALVE, NRS, FL X FL

TEST COCK # 1

GALV. NIPPLE

ELBOW, GALV. 90°

PIPE, GALV. (CUT TO LENGTH)

FROM METER

FLOW

ELBOW, GALV. 90°

FLANGE, STEEL PIPE, SCREW-TYPE

MIN 6" GRAVEL BED (NO. 57 STONE)

ELBOW, GALV. 90°

PIPE, GALV. (CUT TO LENGTH)

FINAL GRADE

ELBOW, GALV. 90°

FLOW

TO STRUCTURE

NOTES:

1. INSTALL AN INSULATED BOX OVER THE ASSEMBLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE BOX TO THE ENGINEER FOR APPROVAL.

REDUCED PRESSURE BACKFLOW PREVENTER

SINGLE SERVICE 3" TO 10"

NTS

4027-020

Jacobs

CIVIL

STANDARD DETAILS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS

MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

AS SHOWN

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

01"

DATE

MAY 2021

PROJ

D3226100

DWG

99-C-5004

SHEET

218 of 270

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DR

D TERRY

NO. DATE

REVISION

CHK

APVD

BY

APVD

J RAMOS

CONFORMED DOCUMENTS

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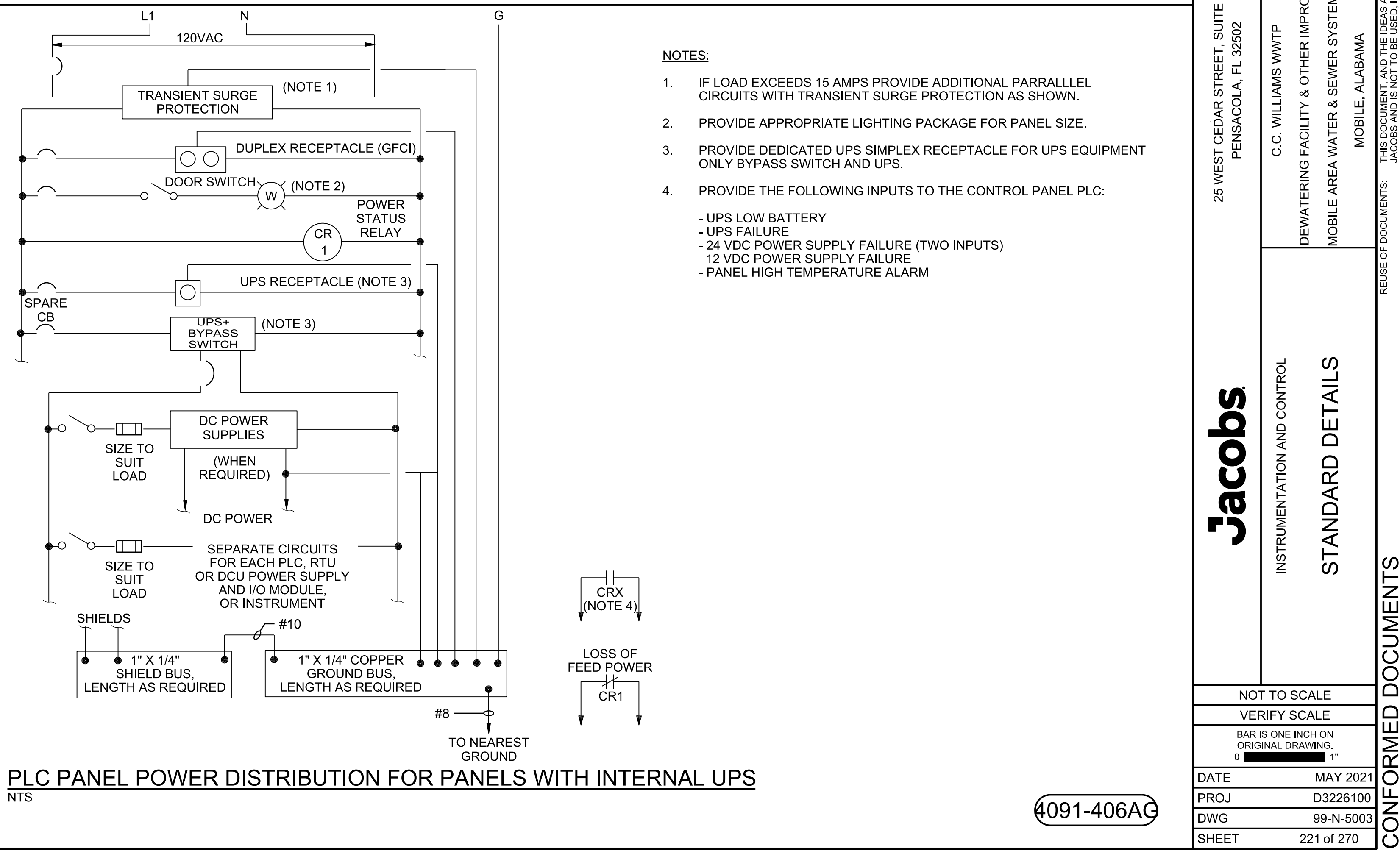
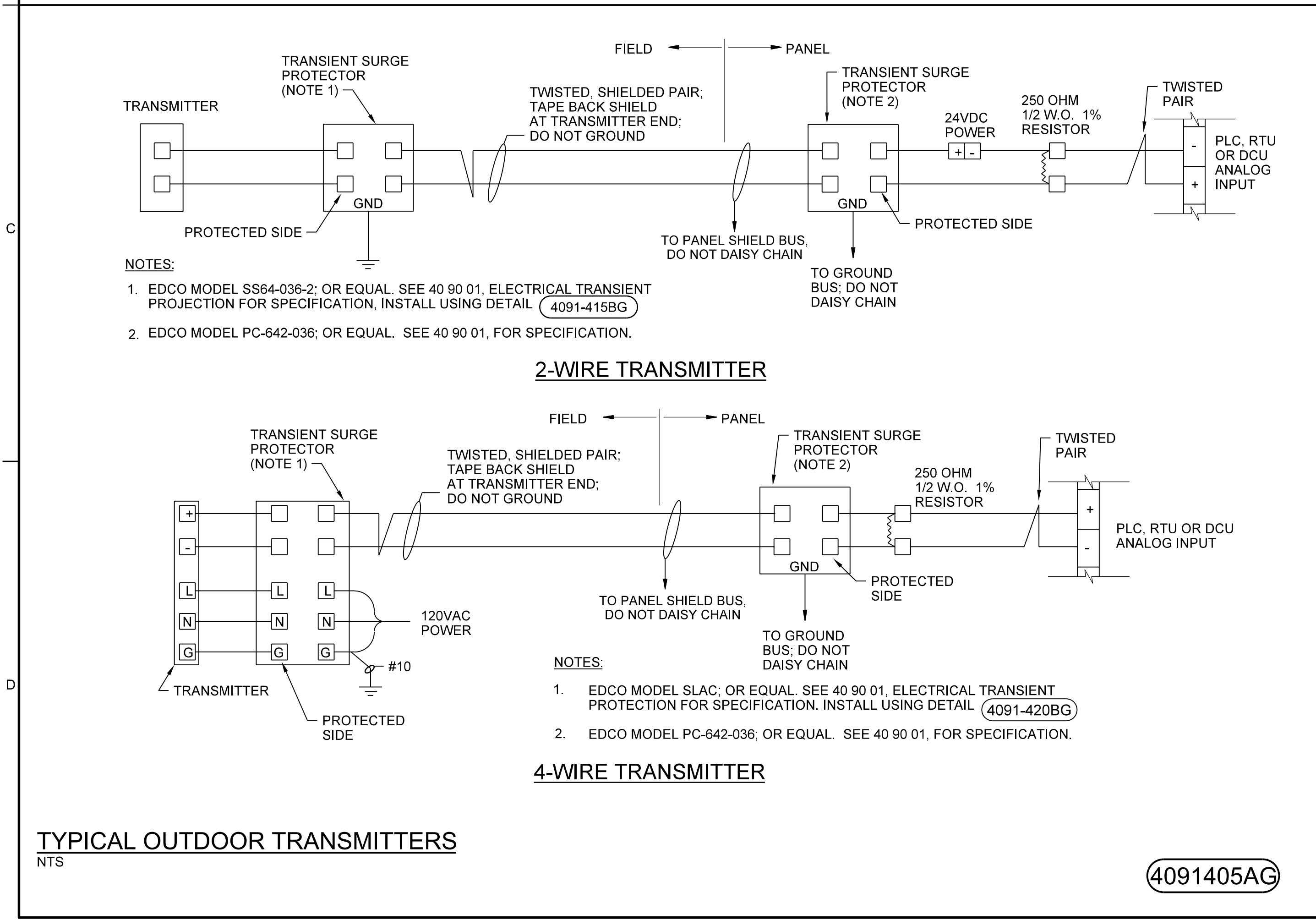
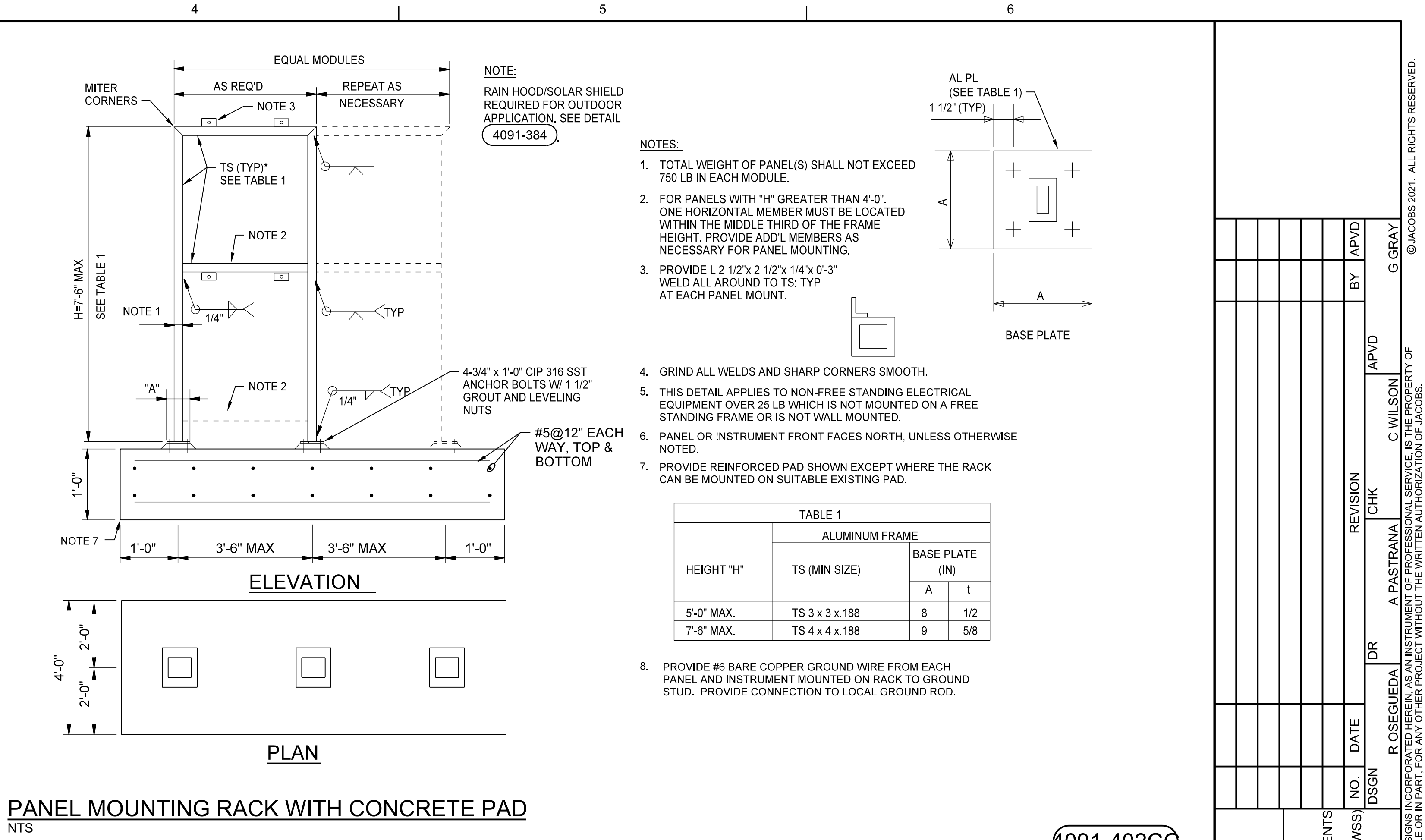
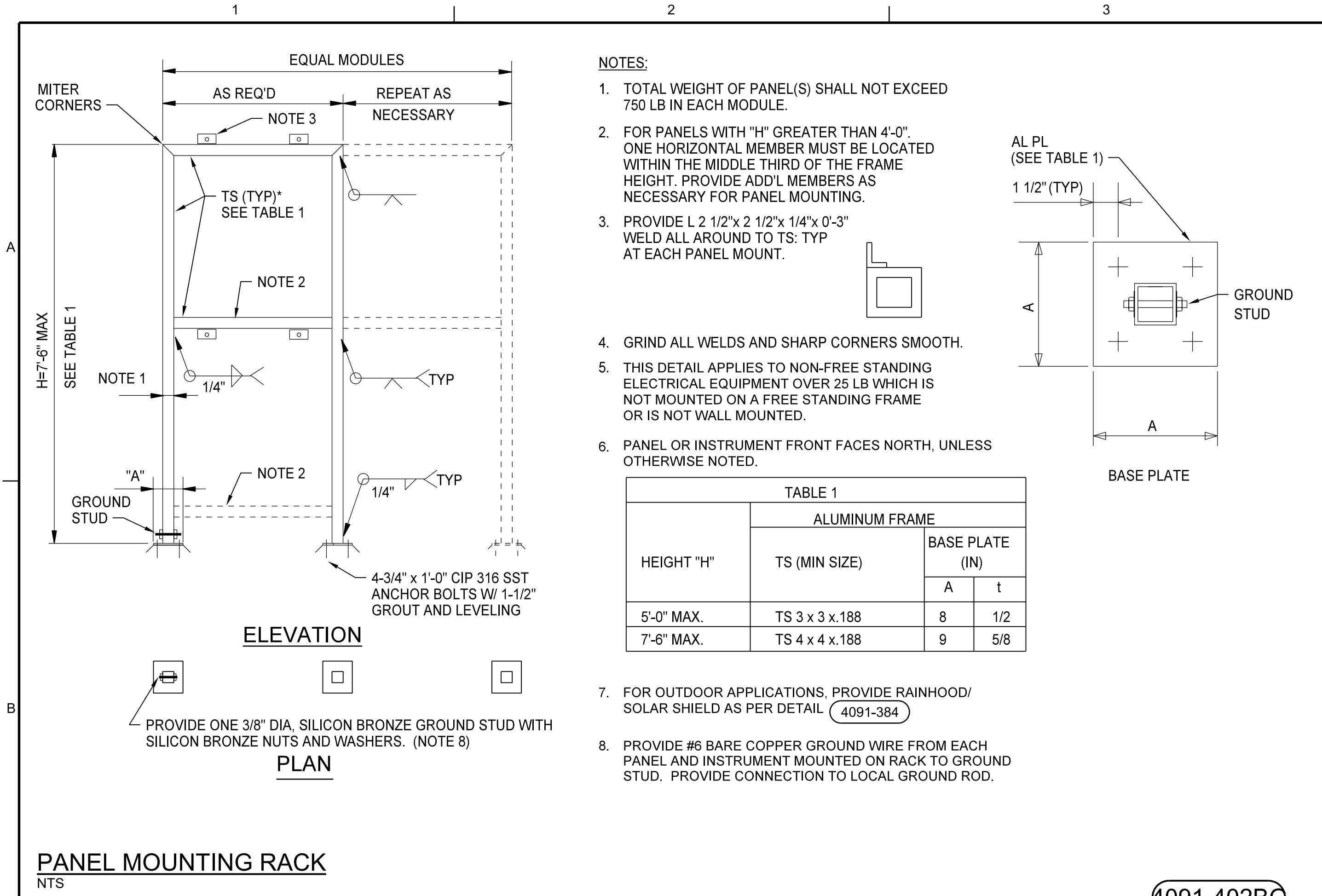
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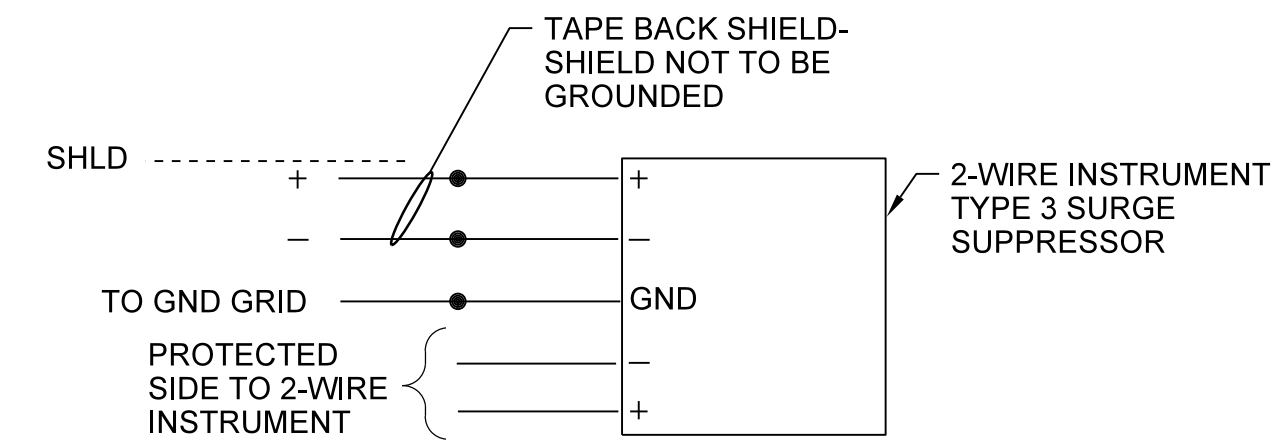
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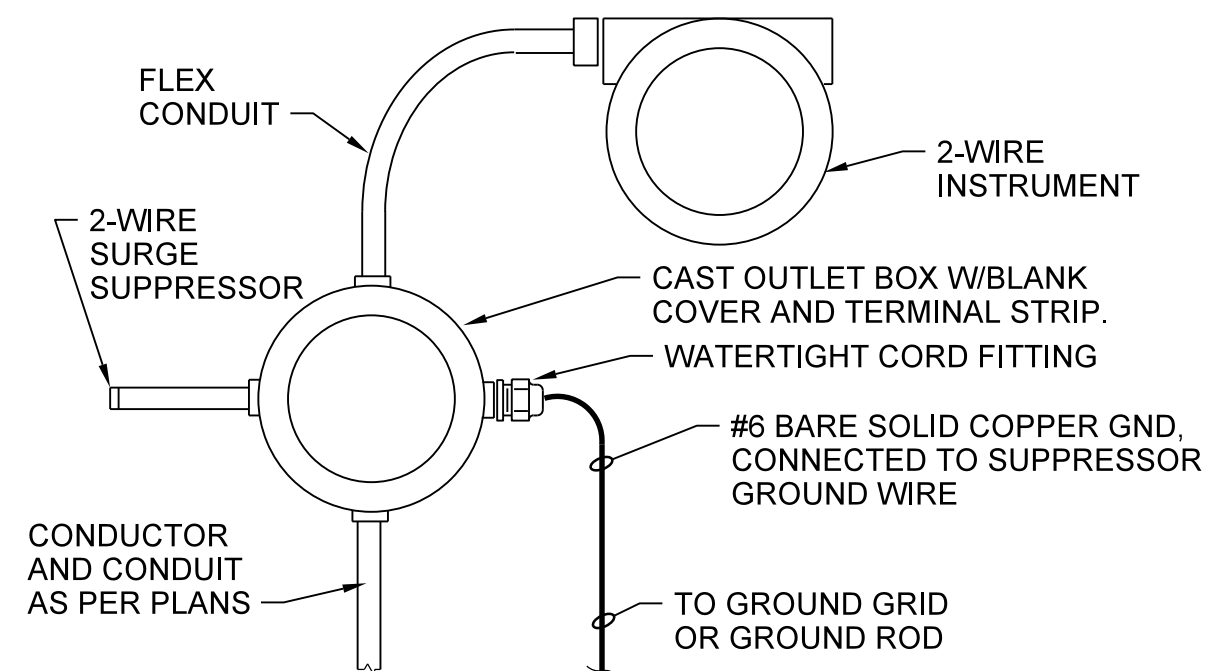
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25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS		MOBILE AREA WATER & SEWER SYSTEM (MAVSS)		MOBILE, ALABAMA		REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.	
INSTRUMENTATION AND CONTROL		STANDARD DETAILS		NOT TO SCALE		VERIFY SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE MAY 2021	
PROJECT		D3226100		DWG 99-N-5003		SHEET 221 of 270		G GRAY		C WILSON	
NO. DATE		REVISION		CHK		APVD		BY		APVD	
DR		A PASTRANA		R OSEGUEDA		C WILSON		G GRAY		G GRAY	

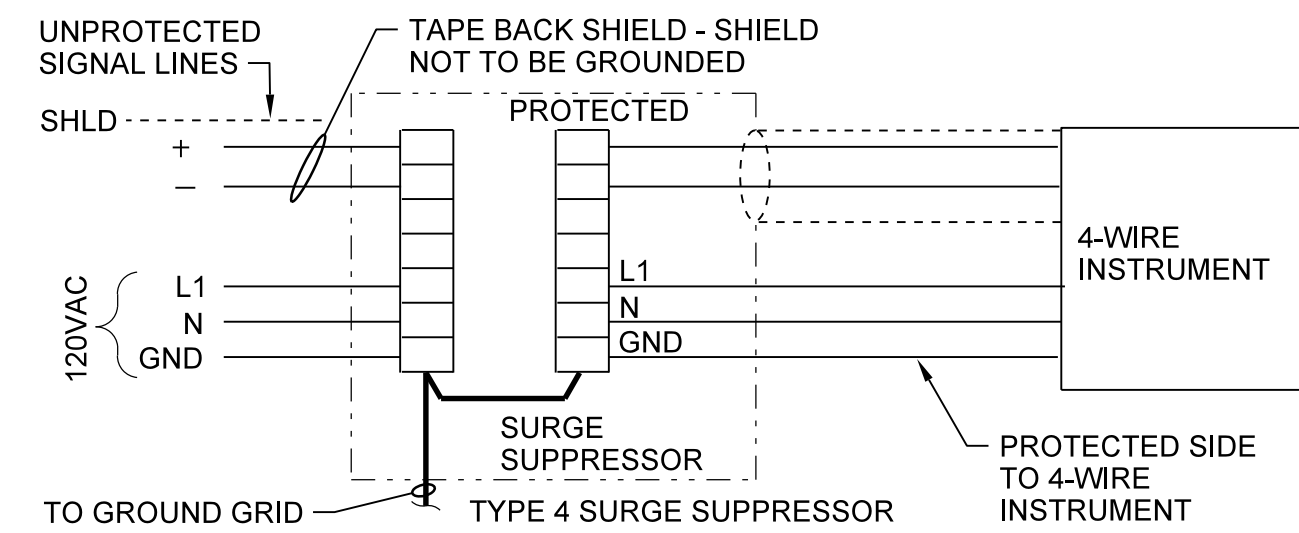


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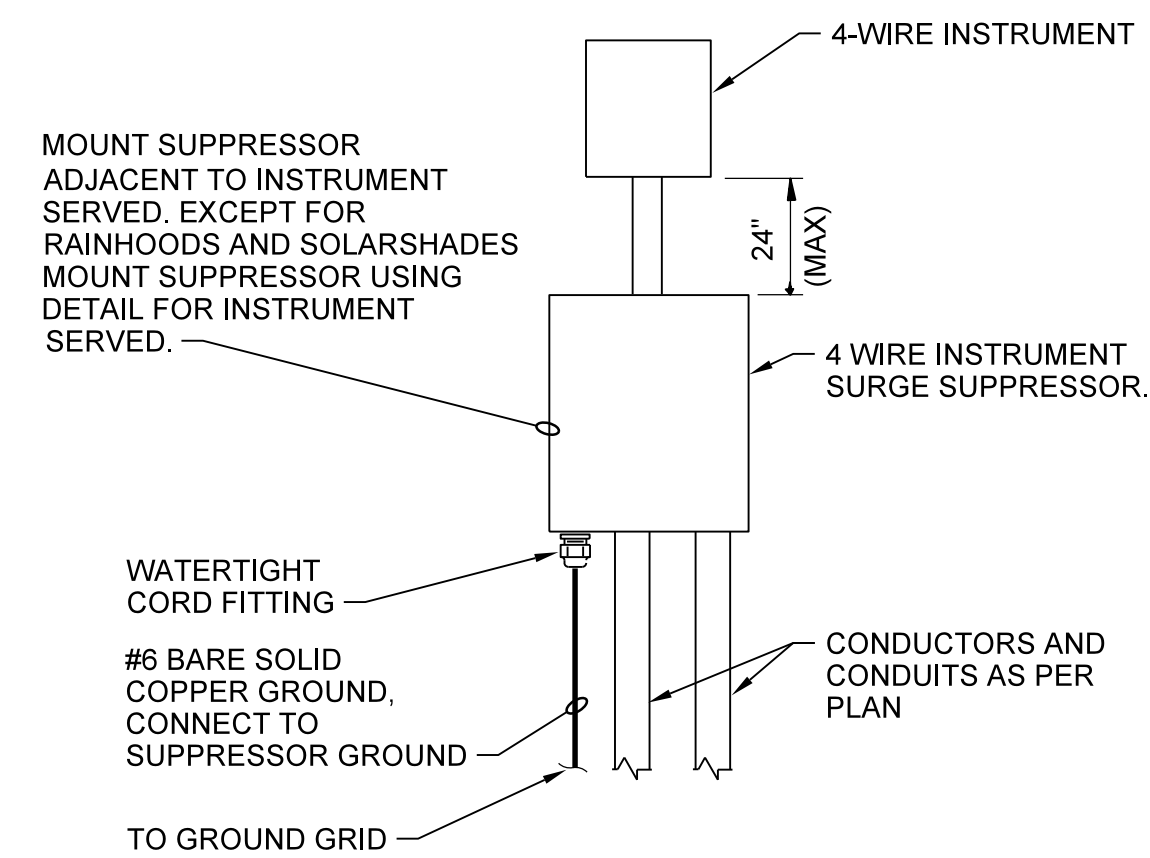


TYPE "3" SURGE SUPPRESSOR INSTALLATION 2-WIRE INSTRUMENT NTS

4091-415BG




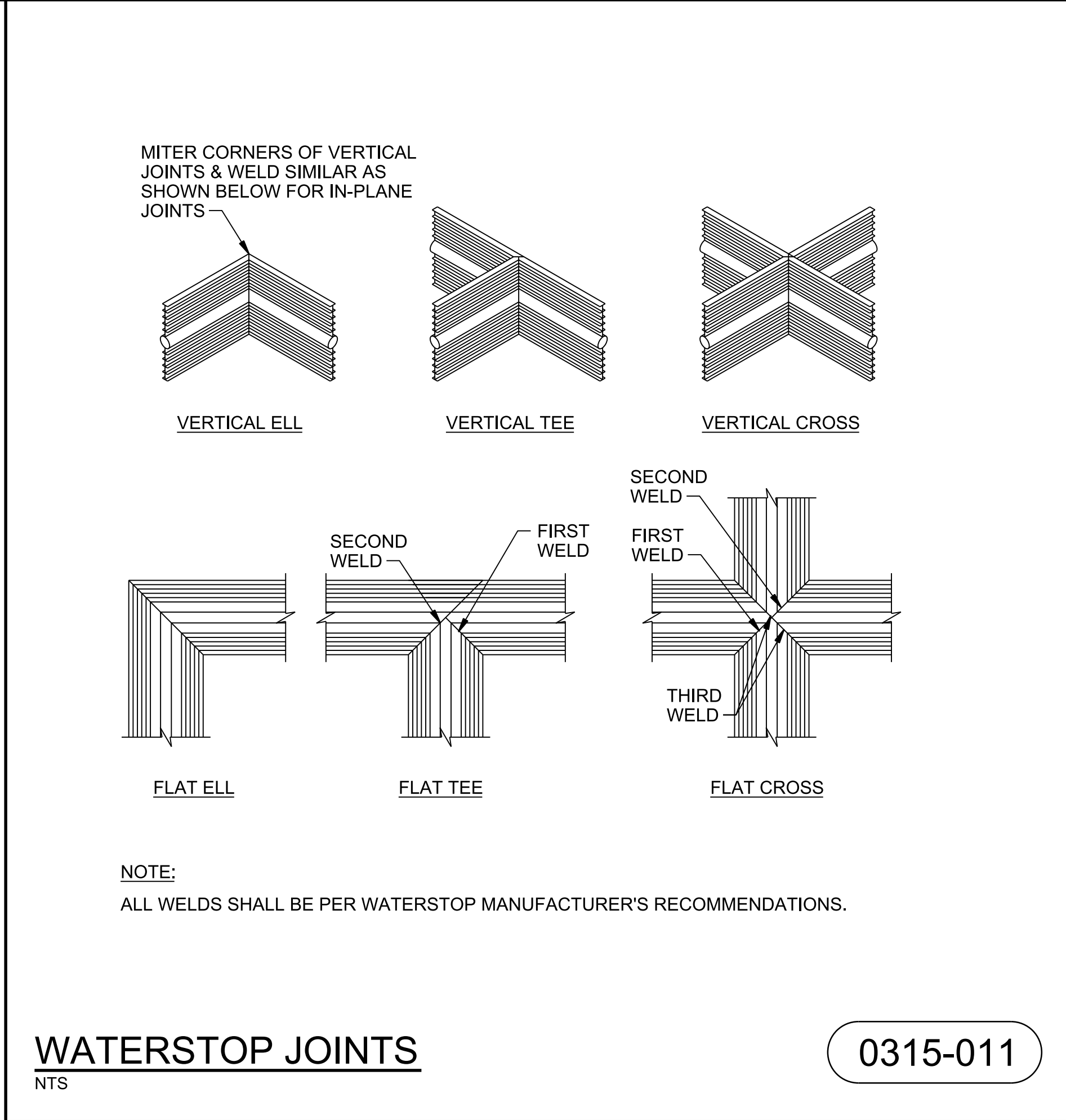
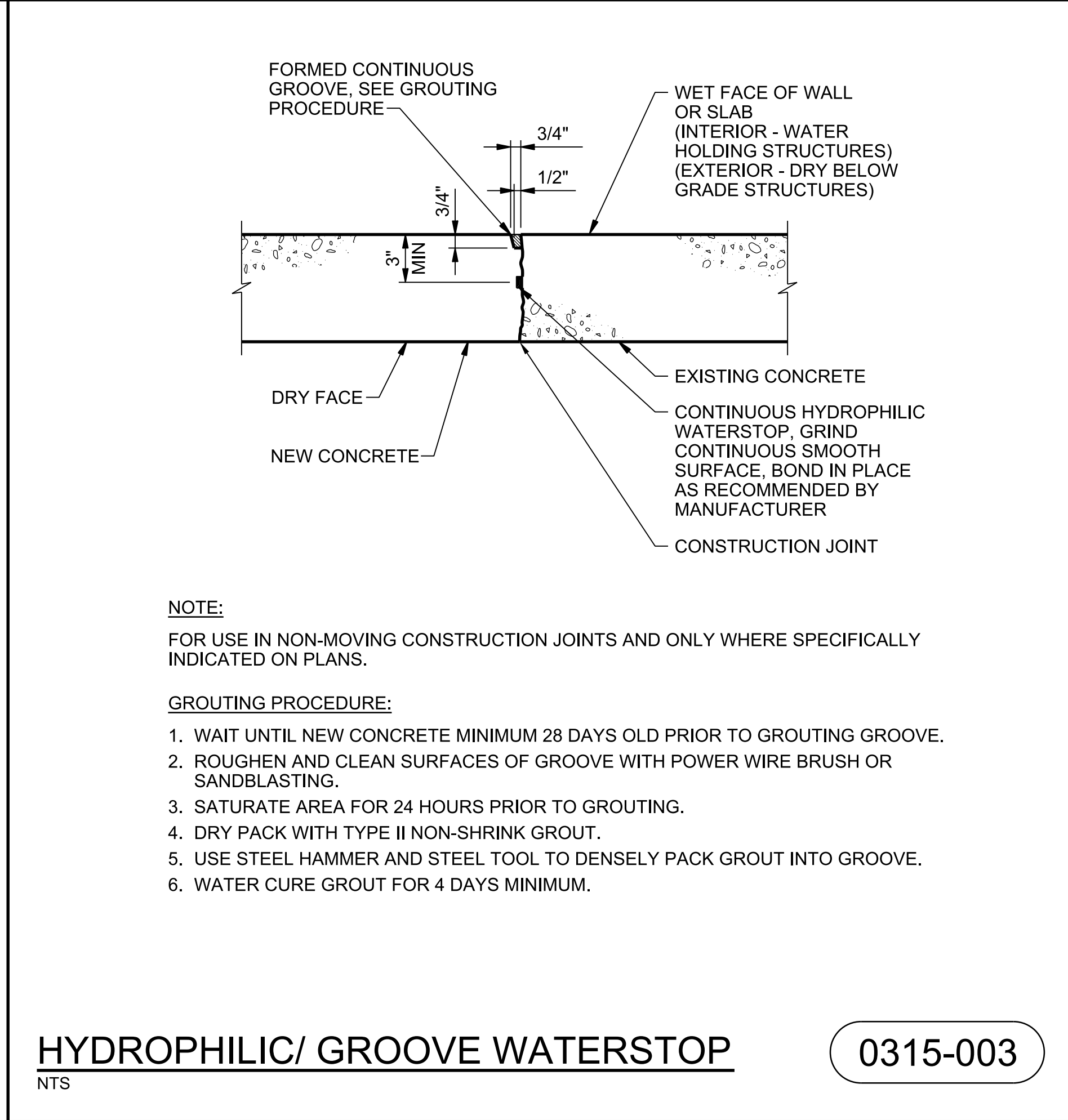
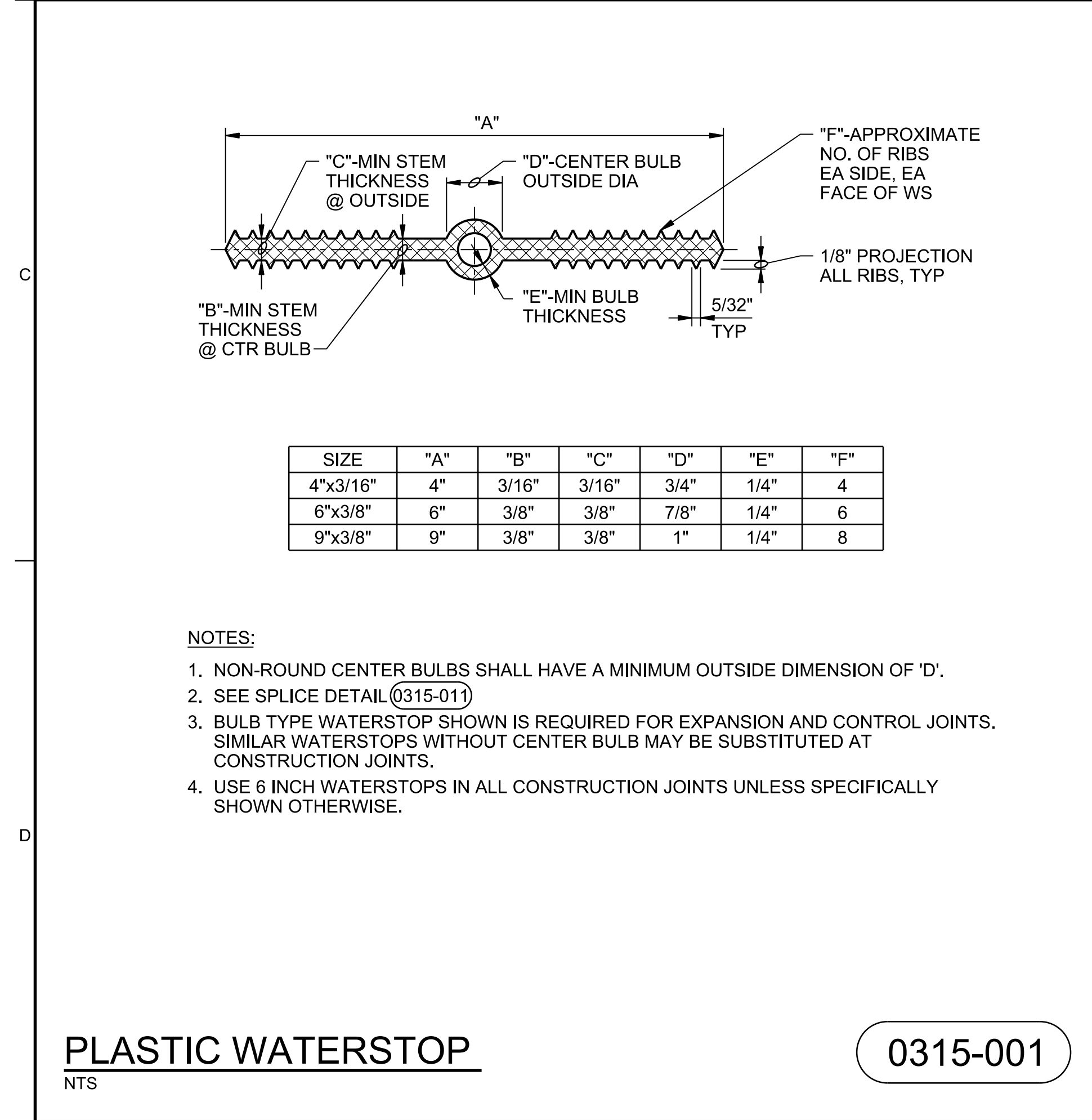
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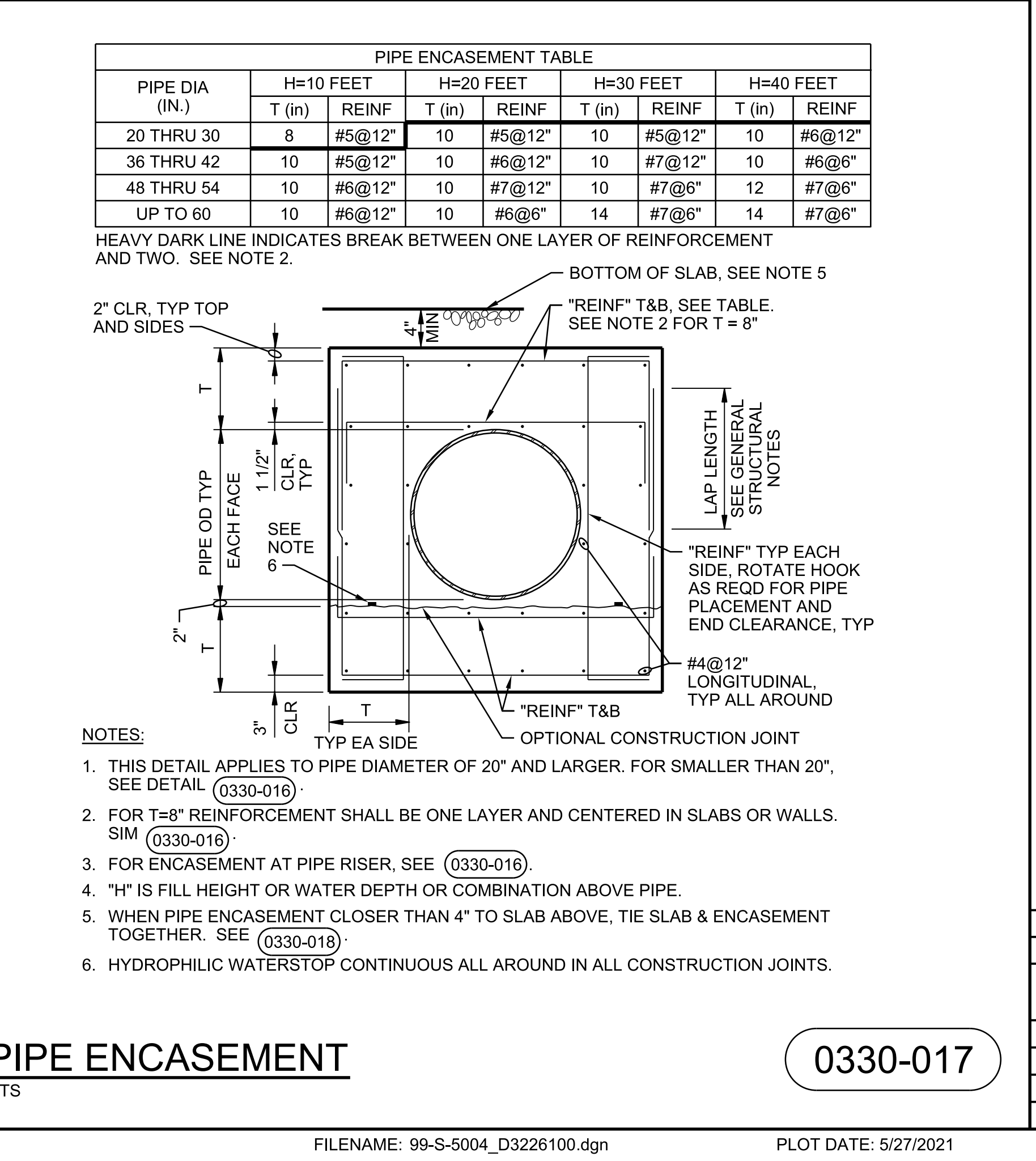
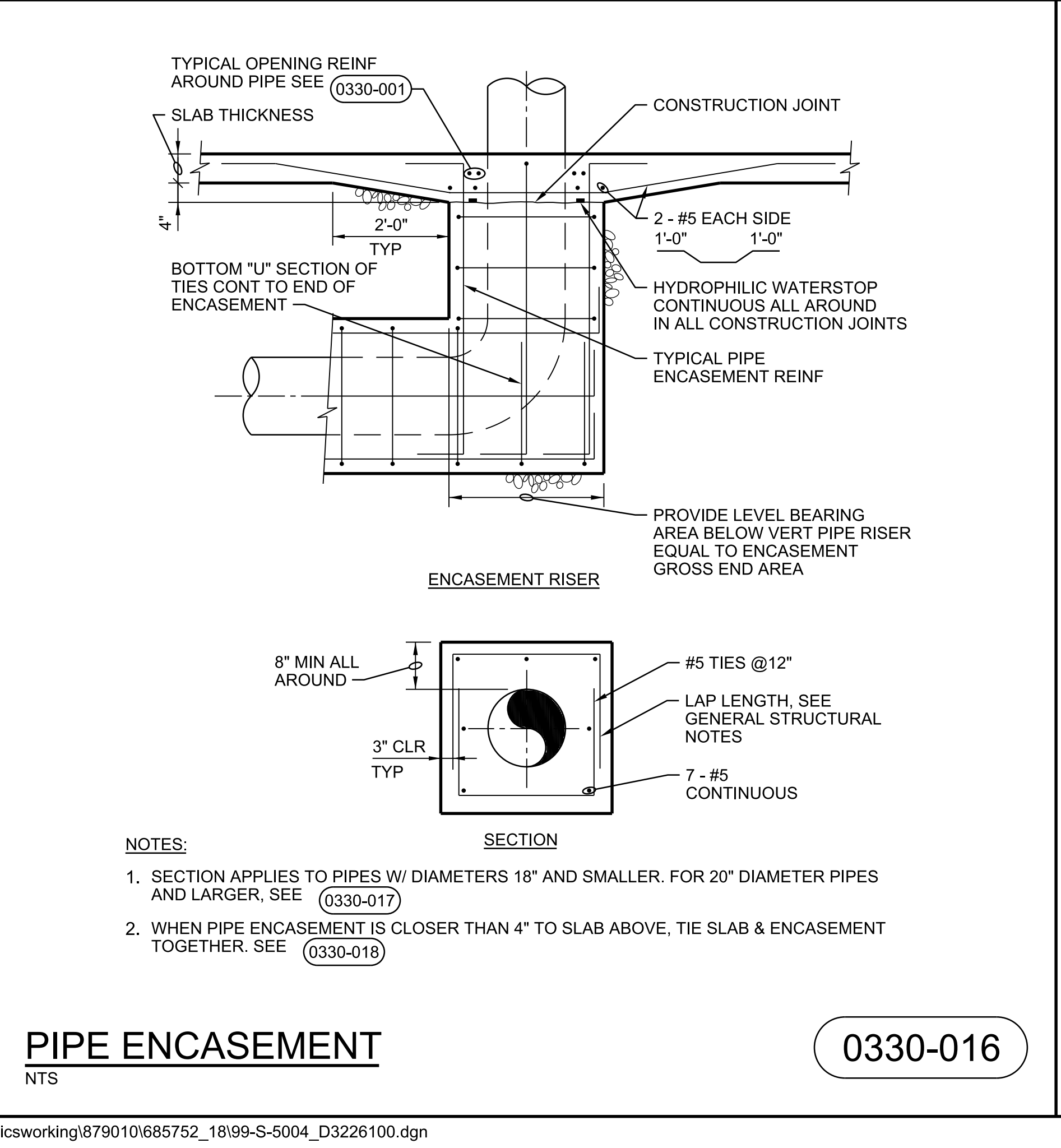
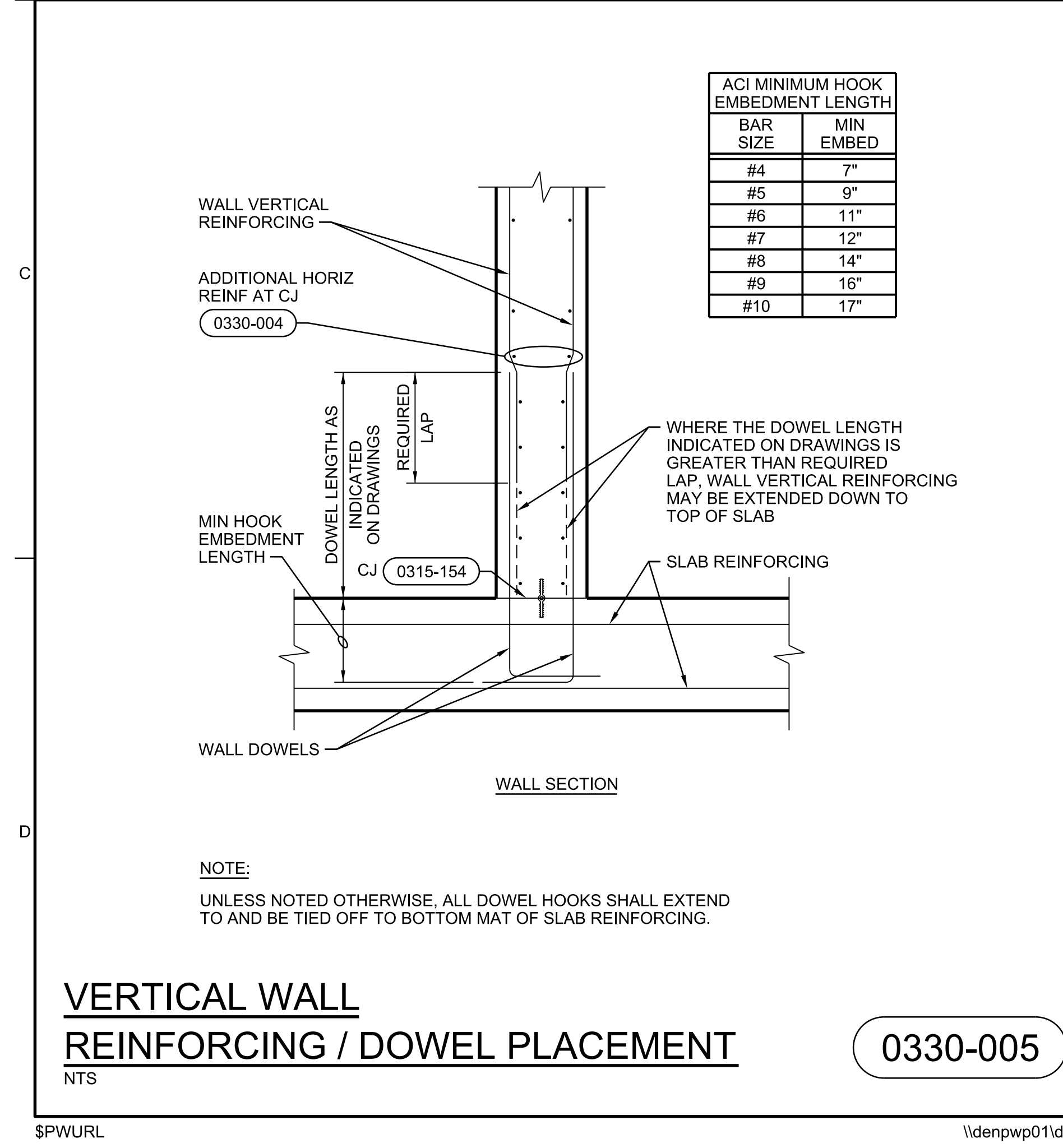
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
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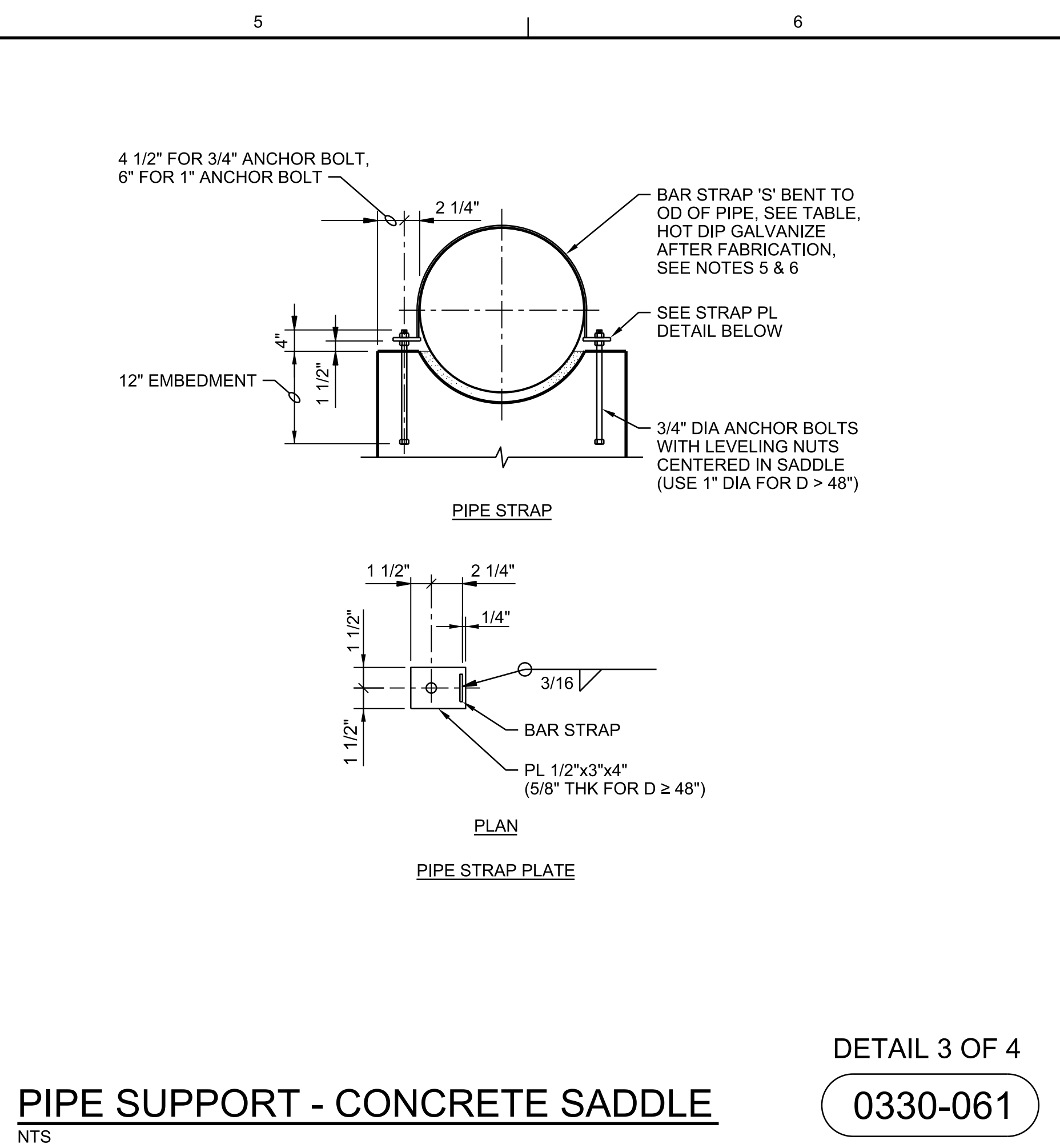
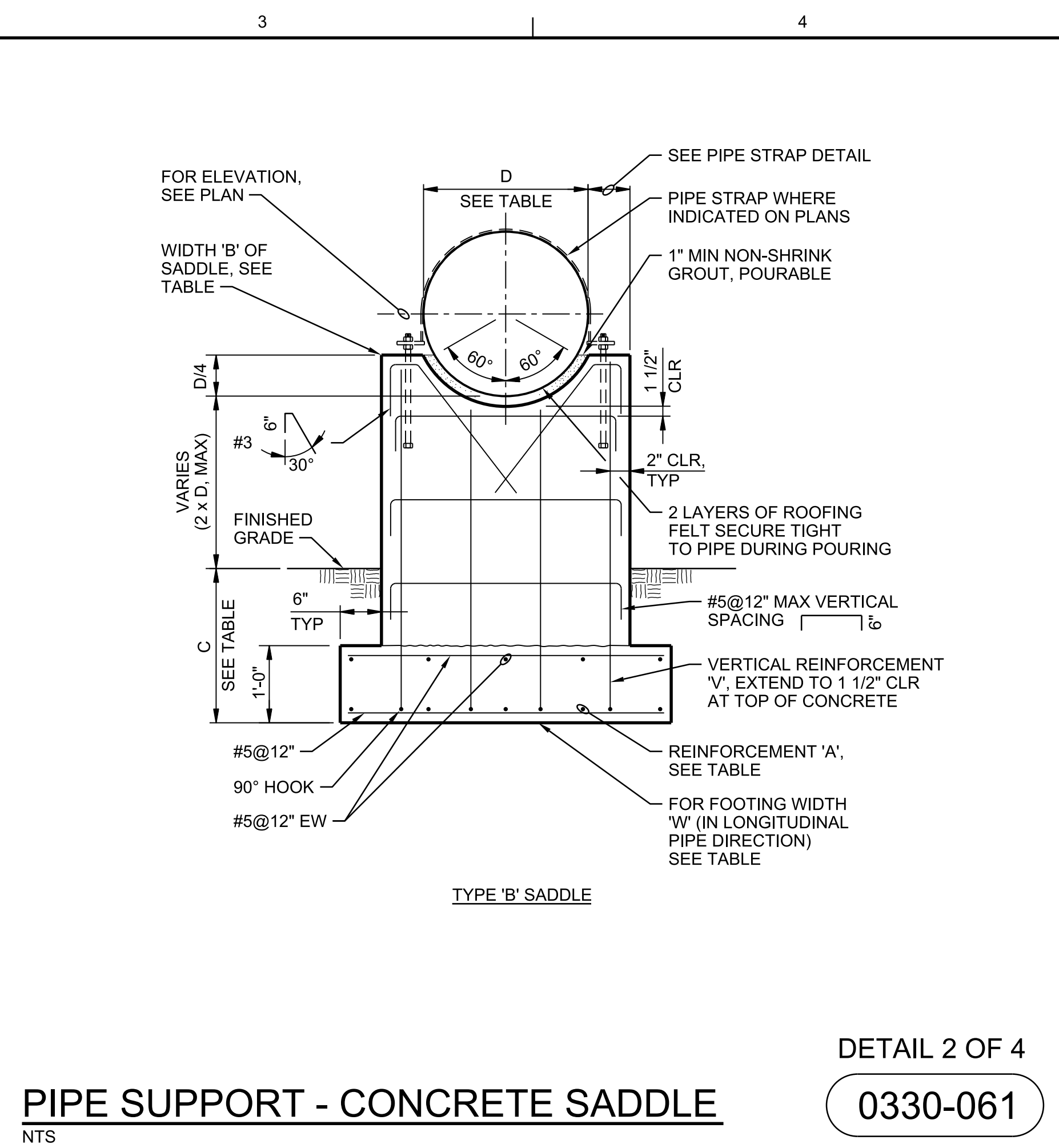
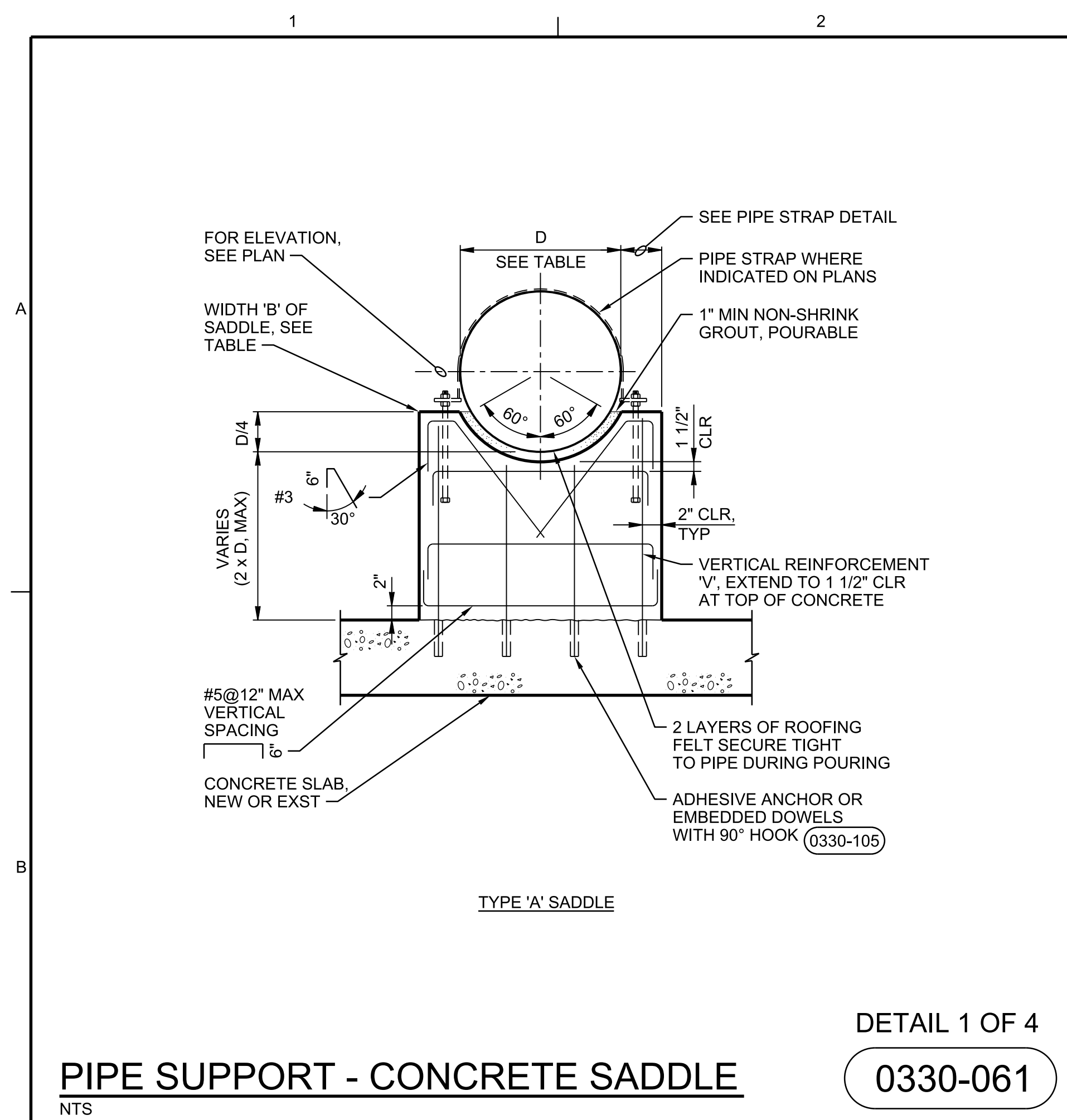
<div></div>		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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<div><div>Jacobs</div><div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div></div>	<div>STRUCTURAL</div> <div>STANDARD DETAILS</div>	C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	MOBILE, ALABAMA	DSGN	NO.	DATE	DR		CHK		APVD	
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BAR IS ONE INCH ON ORIGINAL DRAWING. 0 [REDACTED] 1"														
DATE				MAY 2021										
PROJ.				D3226100										
DWG				99-S-5001										
SHEET				223 of 270										




	25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502								
	C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS (MOBILE AREA WATER & SEWER SYSTEM (MAWSS))								
STRUCTURAL STANDARD DETAILS	MOBILE, ALABAMA								
NO SCALE									
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"									
DATE	MAY 2021								
PROJ	D32261000								
DWG	99-S-5004								
SHEET	226 of 270								
PLOT TIME: 7:22:55 AM									



PIPE SADDLE TABLE					
PIPE DIAMETER D	SADDLE WIDTH B	LAYERS OF REINFORCEMENT	VERTICAL REINFORCEMENT V	PIPE STRAP SIZE S	NO. OF STRAPS
D ≤ 12"	9"	1 (CTRD)	#5@12"	3/16"x2"	1
12" < D ≤ 24"	9"	1 (CTRD)	#5@12"	3/16"x2 1/2"	1
24" < D ≤ 36"	10"	2 (EF)	#5@12"	1/4"x2"	1
36" < D ≤ 48"	12"	2 (EF)	#5@12"	1/4"x3"	1
48" < D ≤ 60"	16"	2 (EF)	#6@12"	3/8"x3"	2
60" < D ≤ 72"	18"	2 (EF)	#6@12"	3/8"x3"	2

TYPE 'B' PIPE SADDLE FOOTING TABLE			
PIPE DIAMETER D	FOOTING WIDTH W	REINFORCEMENT A	FOOTING DEPTH C
D ≤ 12"	1'-6"	#5@12"	2'-0"
12" < D ≤ 24"	2'-0"	#5@12"	2'-0"
24" < D ≤ 36"	3'-0"	#5@12"	2'-0"
36" < D ≤ 48"	4'-0"	#5@12"	2'-0"
48" < D ≤ 60"	6'-0"	#5@6"	2'-0"
60" < D ≤ 72"	8'-0"	#5@6"	2'-0"

NOTES:

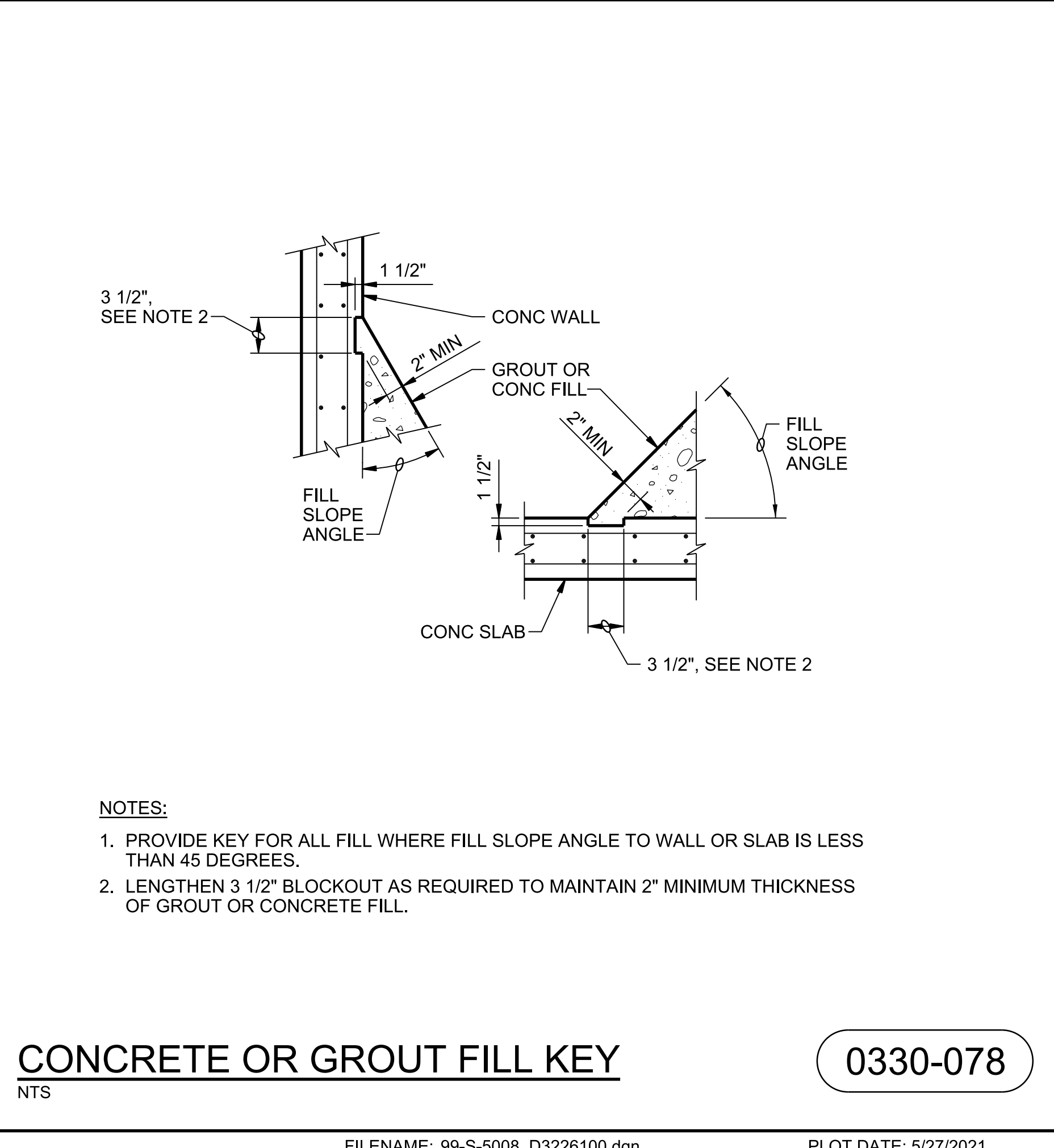
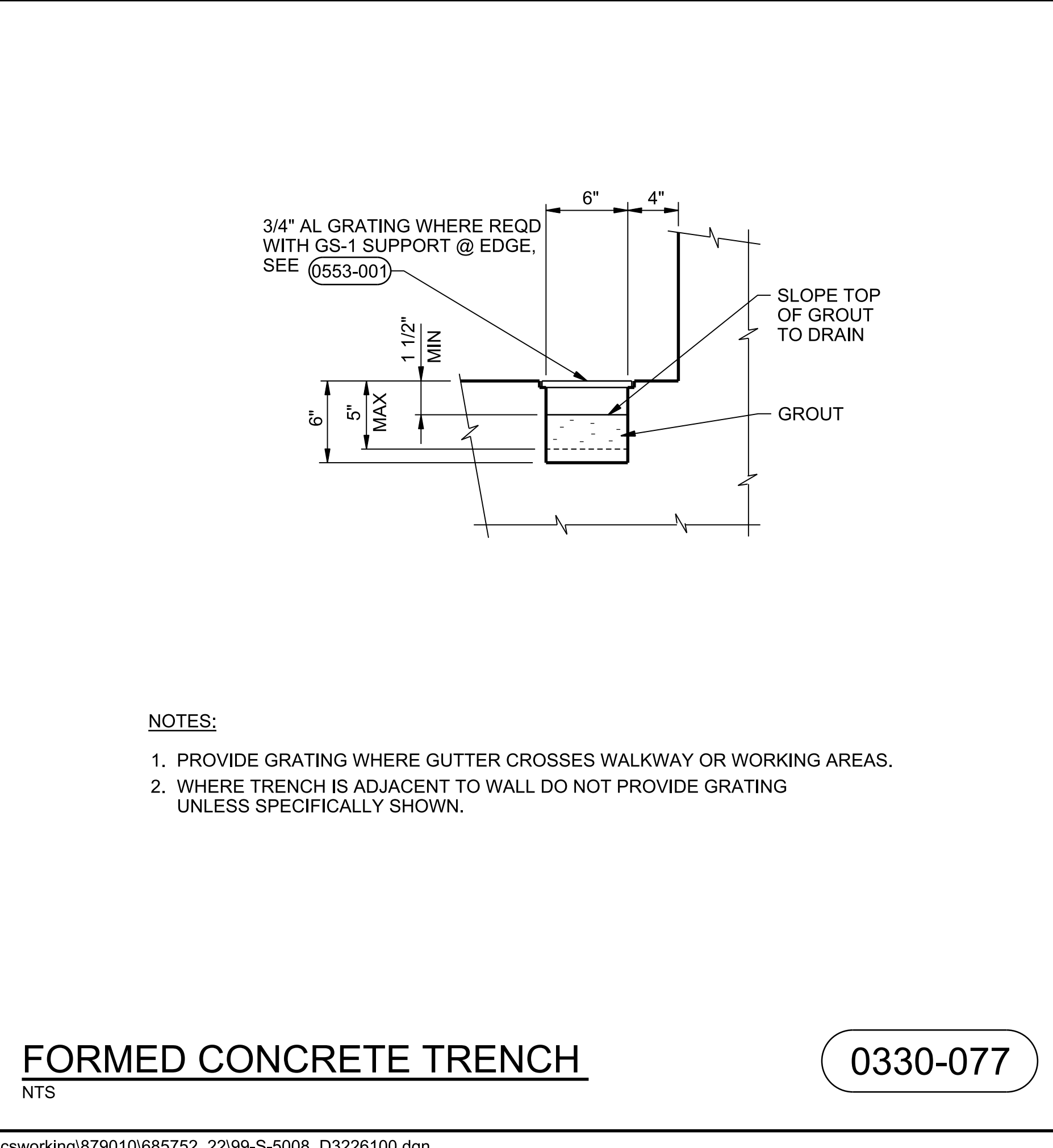
- FOR 'B' ≥ 10" OR THICKER, USE 2 LAYERS OF REINFORCEMENT, TURN HORIZONTAL BARS 90° TO HOOK AROUND VERTICALS , 1 1/2" COVER.
- FORM 3/4" BEVEL ON ALL EXPOSED CORNERS OF SUPPORT.
- USE TYPE 'A' SADDLE IN ALL LOCATIONS WHERE A SLAB (NEW OR EXISTING) OCCURS. USE TYPE 'B' IN OTHER LOCATIONS.
- FOR LOCATIONS WHERE PIPE STRAP IS REQUIRED, REFER TO DRAWINGS. UNLESS INDICATED OTHERWISE A STRAP IS NOT REQUIRED.
- AT SUBMERGED CONDITIONS, STRAP SHALL BE STAINLESS STEEL.
- PROVIDE 3/4" x (STRAP WIDTH PLUS 1" WIDE) NEOPRENE PAD BETWEEN STRAP AND PIPE.

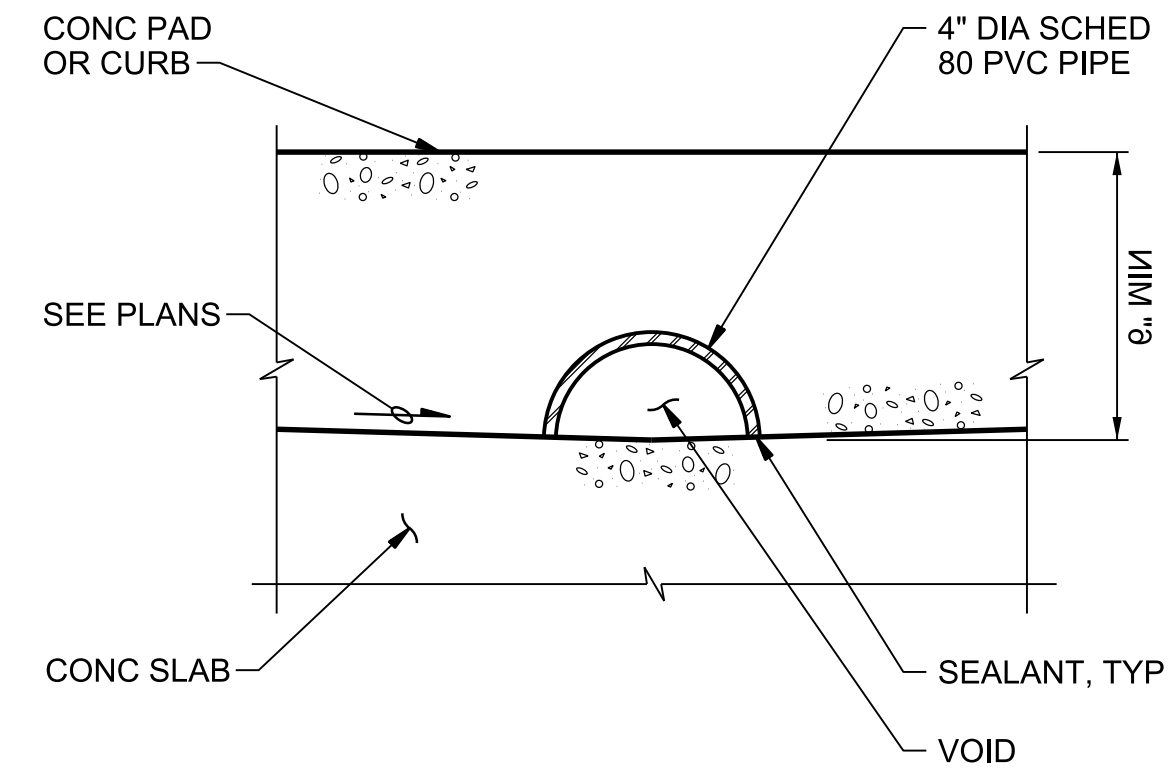
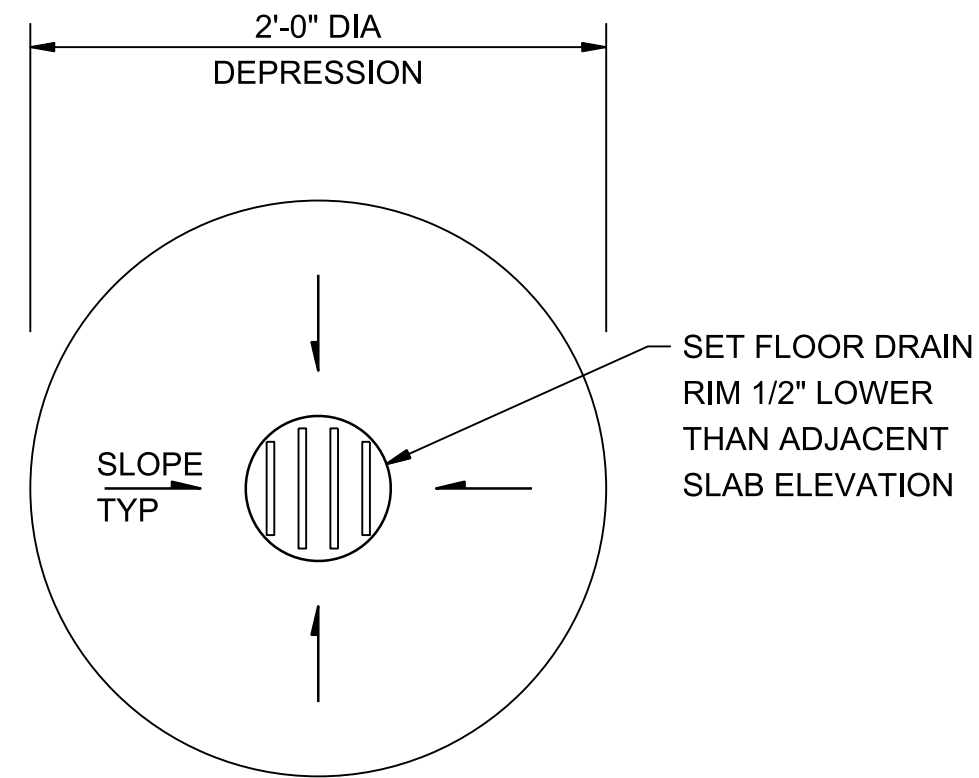
DETAIL 4 OF 4

PIPE SUPPORT - CONCRETE SADDLE

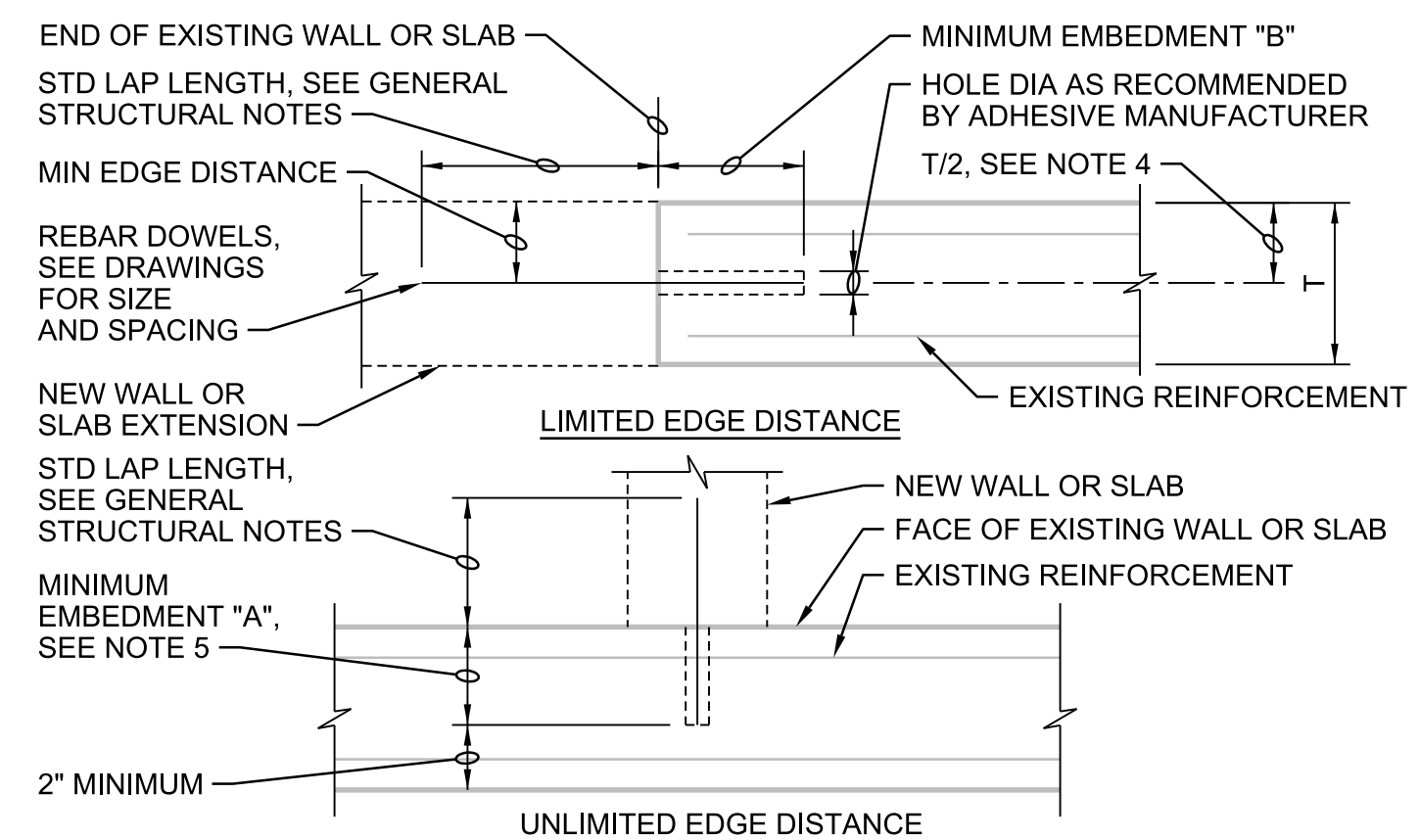
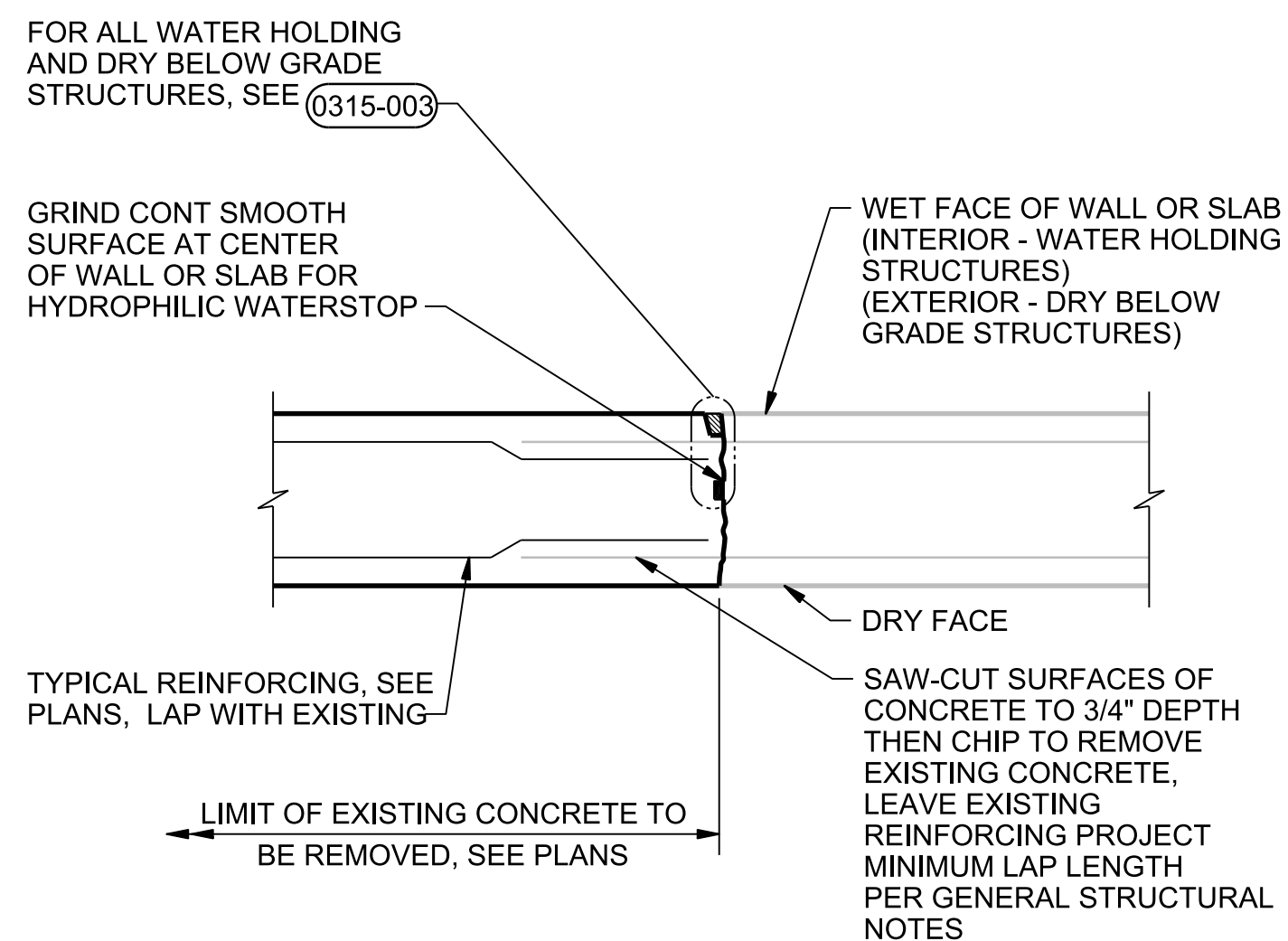
NTS

0330-061





0330-083



NOTES:	#9	7 1/2"	15"	24"
1. CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 03 63 00, CONCRETE DOWELING 2. FOLLOW ADHESIVE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. 3. USE MINIMUM EMBEDMENTS SHOWN, EXCEPT USE MANUFACTURER'S MINIMUM RECOMMENDED EMBEDMENT IF GREATER. 4. LOCATE DOWELS CENTERED IN WALL OR SLAB UNLESS OTHERWISE NOTED ON DRAWINGS. WHERE 2 ROWS OF DOWELS INDICATED, STAGGER SPACING & LOCATE ALTERNATING DOWELS AT MINIMUM EDGE DISTANCE FROM OPPOSITE FACES. 5. PROVIDE MINIMUM EMBEDMENT "A" SHOWN IN TABLE UNLESS SHORTER EMBEDMENT DEPTH IS CALLED OUT ON DRAWINGS.				

0330-105



1. SUPPORT ADJACENT ELEVATED SLABS AND CUT SLAB SECTION UNTIL CUTTING OPERATION IS COMPLETE.
2. CORE DRILL CORNERS TO DIAMETER REQUIRED TO PREVENT OVER CUTTING OF REINFORCEMENT AND CONCRETE BEYOND OPENING.
3. PREPARE AND PROTECT EXPOSED STEEL REINFORCEMENT, SEE (0330-143)

NTS

NTS



NTS

\$PWURL

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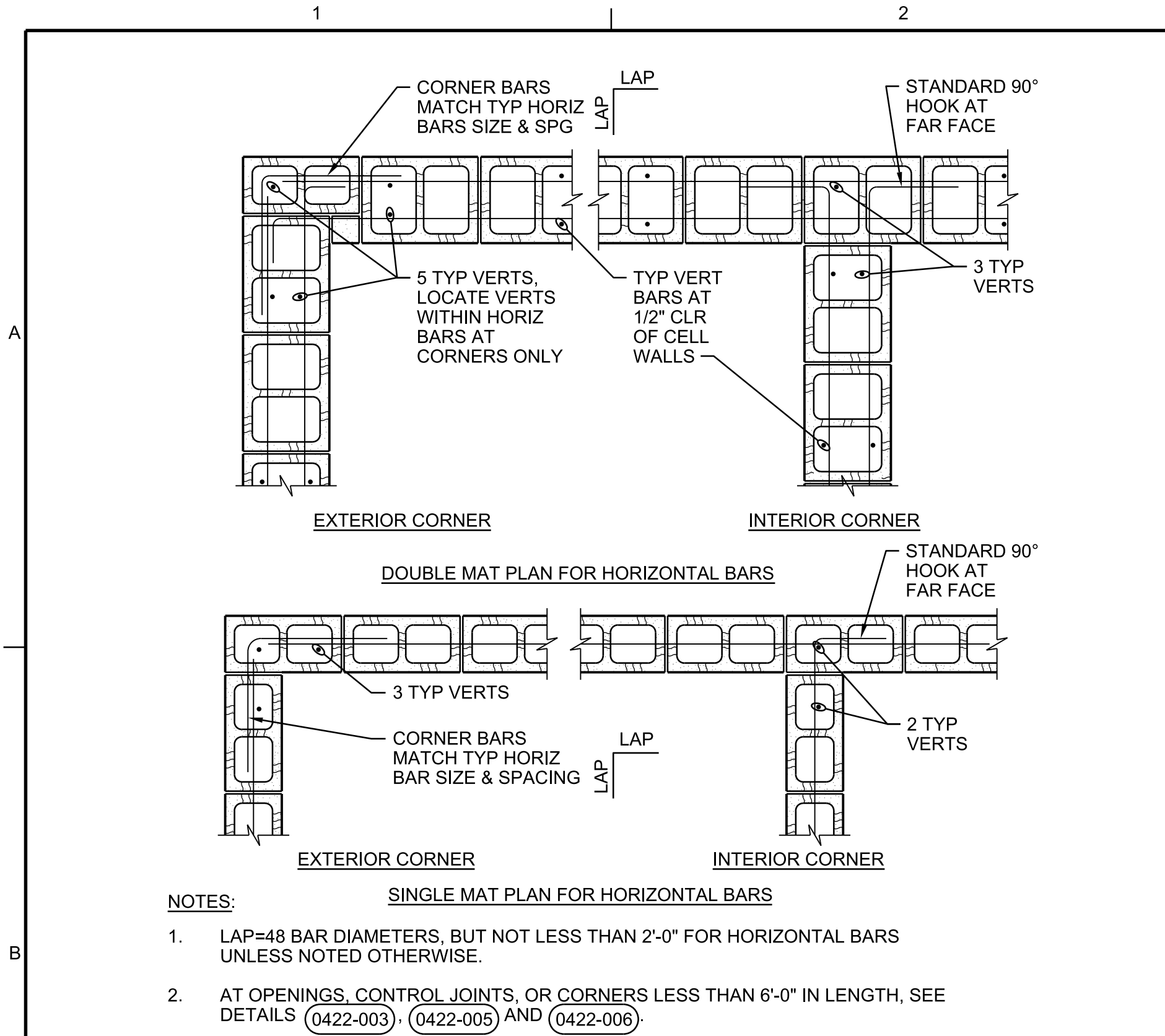
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PLOT DATE: 5/27/2021

PLOT TIME: 7:25:00 AM

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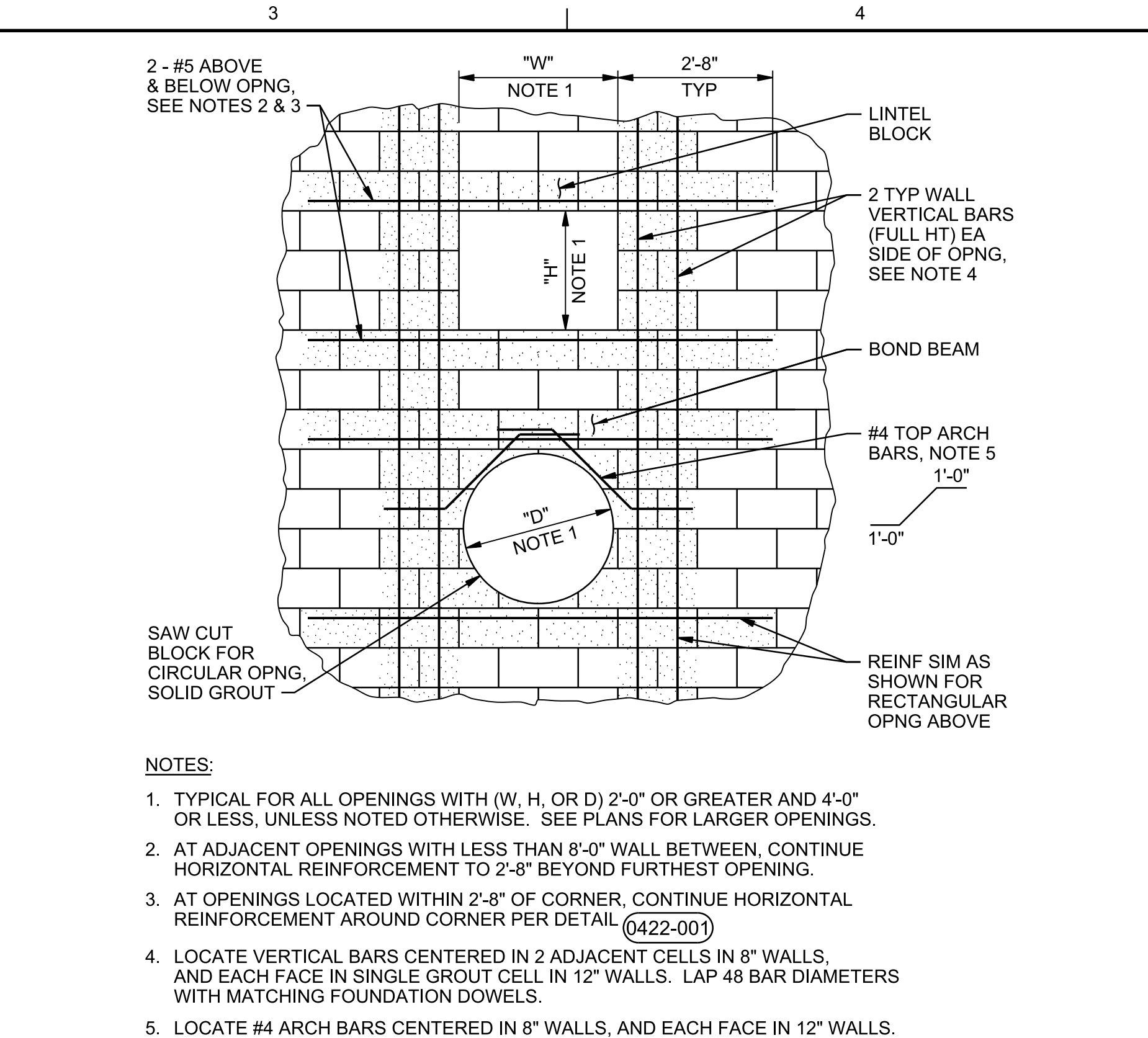


REINFORCED MASONRY

WALL CORNERS (SINGLE & DOUBLE MAT)

0422-001

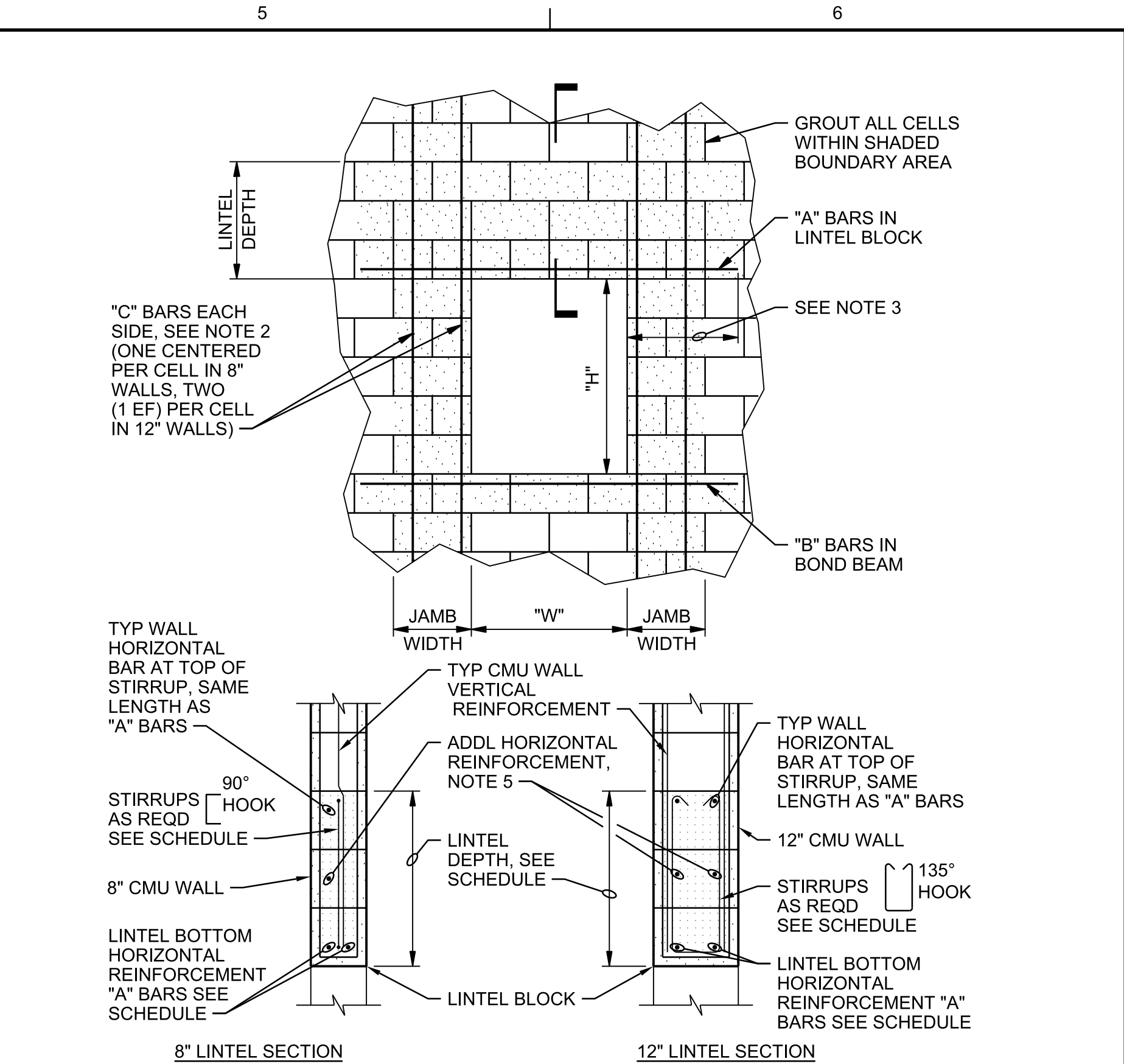
NTS



CMU OPENING REINFORCEMENT

0422-002

NTS



CMU OPENING REINFORCEMENT

0422-003

DETAIL 1 OF 2

NTS

CMU OPENING REINFORCEMENT SCHEDULE

8" WALLS						
W	LINTEL DEPTH	STIRRUP SIZE, SPG	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH
≤2'-8"	8"	-	1	1	1	8"
>2'-8"≤4'-0"	16"	-	2	1	1	8"
>4'-0"≤6'-0"	24"	#3@8"	2	1	2	16"
>6'-0"≤8'-0"	32"	#3@16"	2	2	3	24"
>8'-0"≤10'-0"	48"	#3@24"	2	2	3	24"

12" WALLS						
W	LINTEL DEPTH	STIRRUP SIZE, SPG	"A" BARS	"B" BARS	"C" BARS	JAMB WIDTH
≤2'-8"	8"	-	2	2	2	8"
>2'-8"≤4'-0"	16"	-	2	2	2	8"
>4'-0"≤6'-0"	24"	#3@8"	2	2	4	16"
>6'-0"≤8'-0"	32"	#3@16"	2	2	6	24"
>8'-0"≤10'-0"	48"	#3@24"	2	2	6	24"

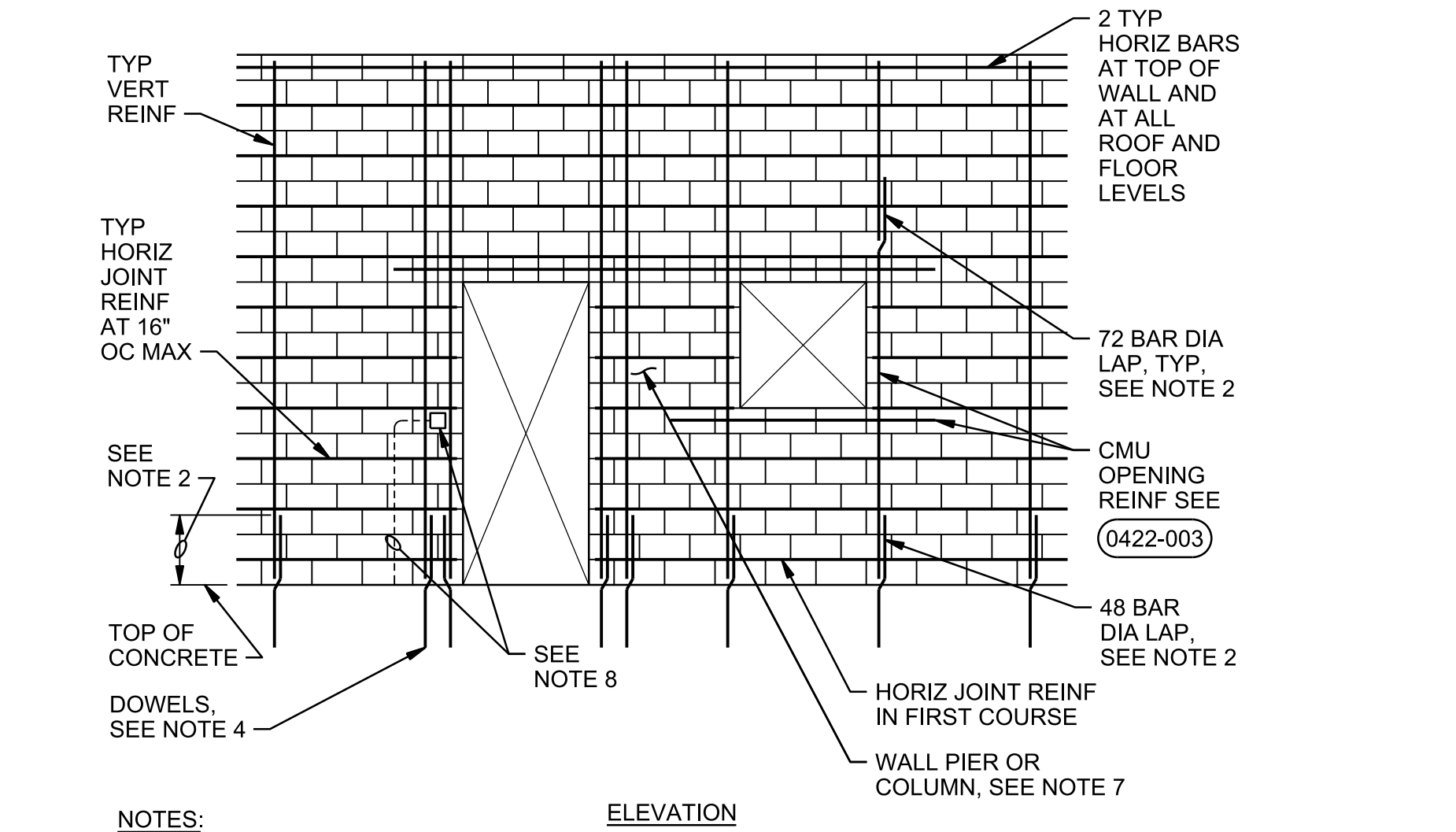
- NOTES:
1. USE BAR QUANTITIES AND SIZES GIVEN IN LINTEL SCHEDULE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. EXTEND "C" BARS 48 BAR DIAMETERS, BUT NOT LESS THAN 2'-0" BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 2'-0", "C" BARS SHALL EXTEND FULL HEIGHT.
3. "A" AND "B" BAR SHALL BE #5 UON. "A" AND "B" BARS SHALL EXTEND 48 BAR DIAMETERS, BUT NOT LESS THAN 2'-0" EACH SIDE OF THE OPENINGS. WHERE THERE IS LESS THAN 8'-0" BETWEEN ADJACENT OPENINGS, EXTEND REINFORCEMENT CONTINUOUS TO 2'-8" BEYOND FURTHEST OPENING.
4. FOR BAR SIZES, MATCH TYPICAL WALL REINFORCEMENT AS SHOWN ON THE BUILDING WALL SECTIONS.
5. FOR LINTEL DEPTHS EQUAL TO OR GREATER THAN 48" PROVIDE ADDITIONAL LAYER OF HORIZONTAL REINFORCEMENT AT 12" FROM BOTTOM OF LINTEL. MATCH SIZE OF TYPICAL WALL HORIZONTAL REINFORCEMENT.

CMU OPENING REINFORCEMENT

0422-003

DETAIL 2 OF 2

NTS

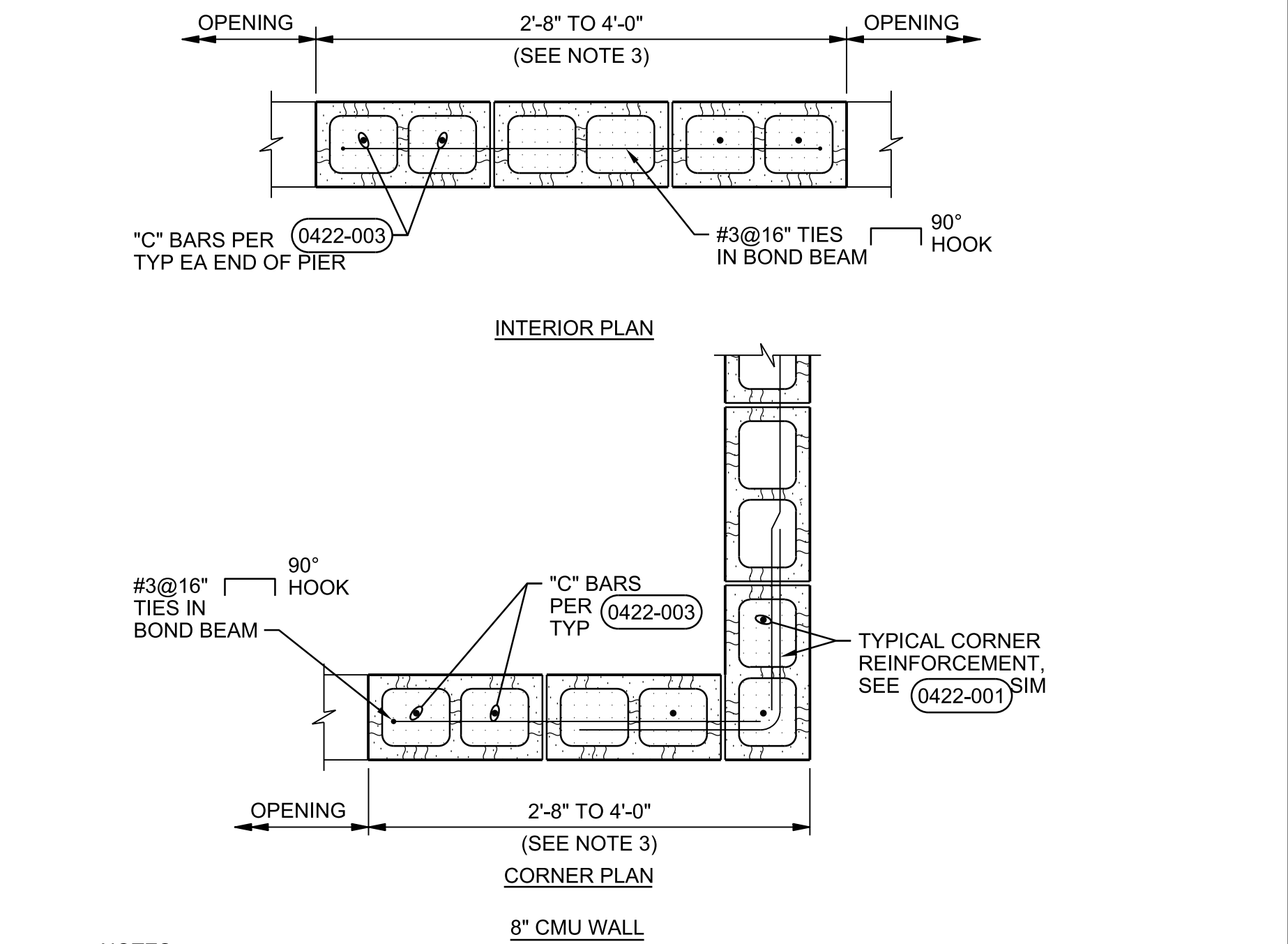


- NOTES:
1. FOR TYPICAL WALL REINFORCEMENT, SEE WALL SECTIONS AND DETAILS FOR EACH FACILITY. FOR MINIMUM REINFORCEMENT REQUIREMENTS, SEE GENERAL STRUCTURAL NOTES.
2. LAP VERTICAL REINFORCEMENT WITH WALL DOWELS 48 BAR DIAMETERS (2'-0" MIN), LAP ALL OTHER VERTICAL BARS 72 BAR DIAMETERS.
3. HORIZONTAL JOINT REINFORCEMENT SPLICE = 1'-4".
4. PROVIDE DOWEL BARS IN FOUNDATION TO MATCH ALL VERTICAL REINFORCEMENT.
5. FOR ADDED REINFORCEMENT AT WALL INTERSECTIONS AND CORNERS, SEE (0422-001).
6. GROUT EACH SIDE OF OPENING AS NOTED IN TYPICAL OPENING REINFORCEMENT DETAIL (0422-003).
7. FOR HORIZONTAL REINFORCEMENT AT OPENINGS SEE PIER AND COLUMN DETAILS (0422-005) AND (0422-006).
8. DO NOT PLACE VERTICAL CONDUIT IN THE SAME CELL AS VERTICAL REINFORCEMENT.

INTERMEDIATE REINFORCED MASONRY SHEAR WALL

0422-004

NTS



CMU WALL PIER

0422-005

NTS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

NO SCALE

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE MAY 2021

PROJ D3226100

DWG 99-S-5011

SHEET 233 of 270

STRUCTURAL

STANDARD DETAILS

CONFORMED DOCUMENTS

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M CHRZANOWSKI

P KARABAN

M CHRZANOWSKI

DR

CHK

REVISION

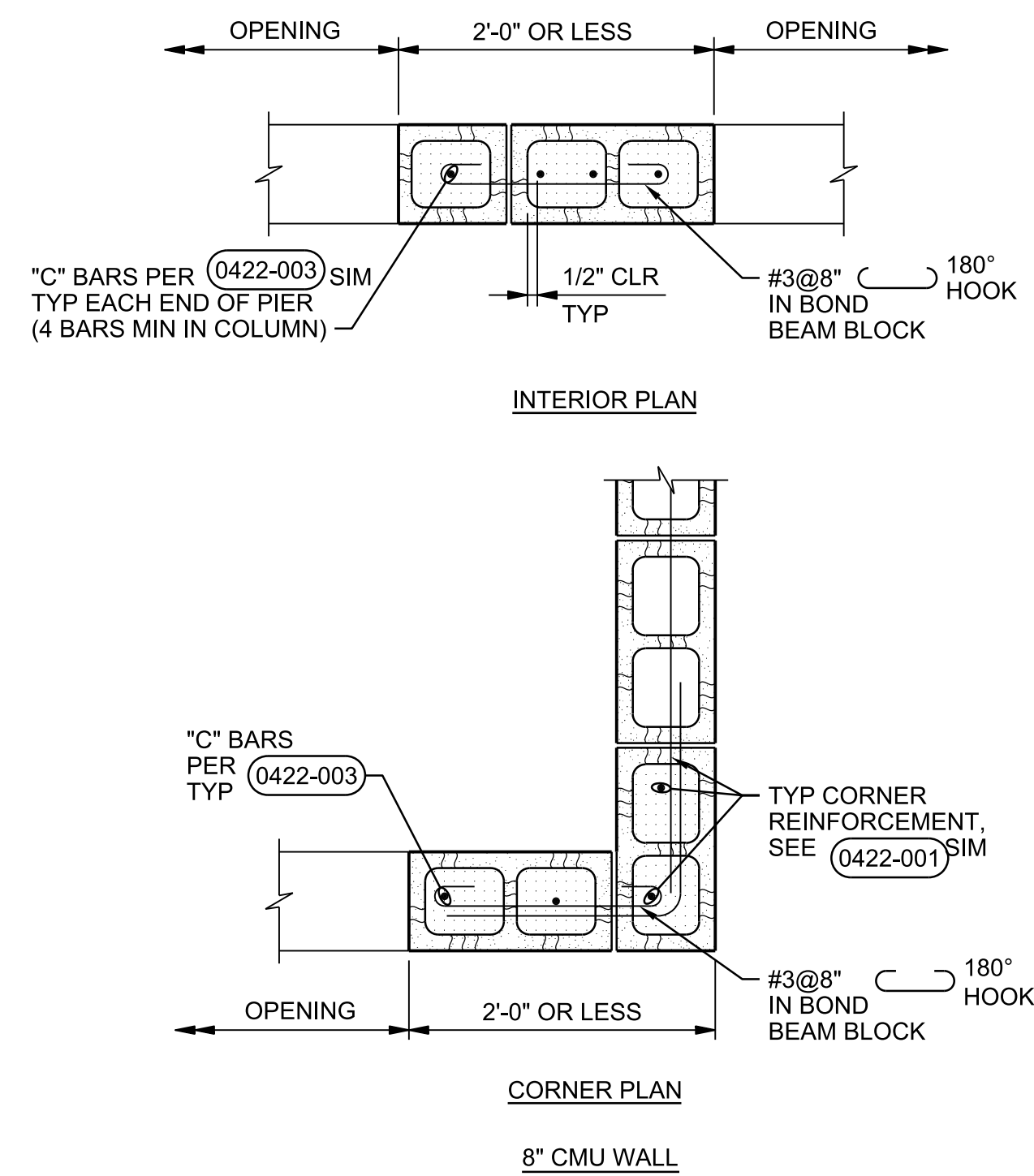
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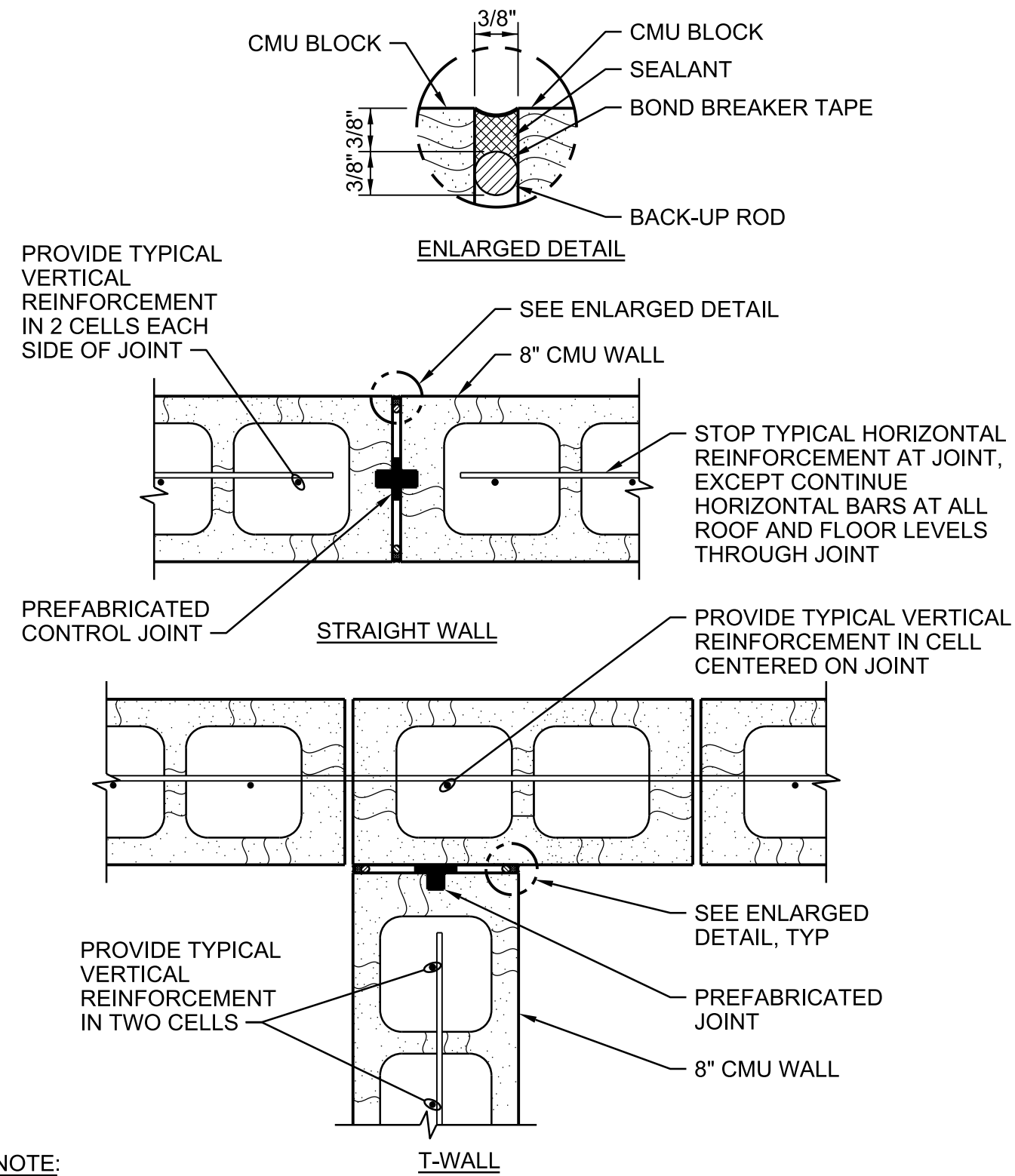
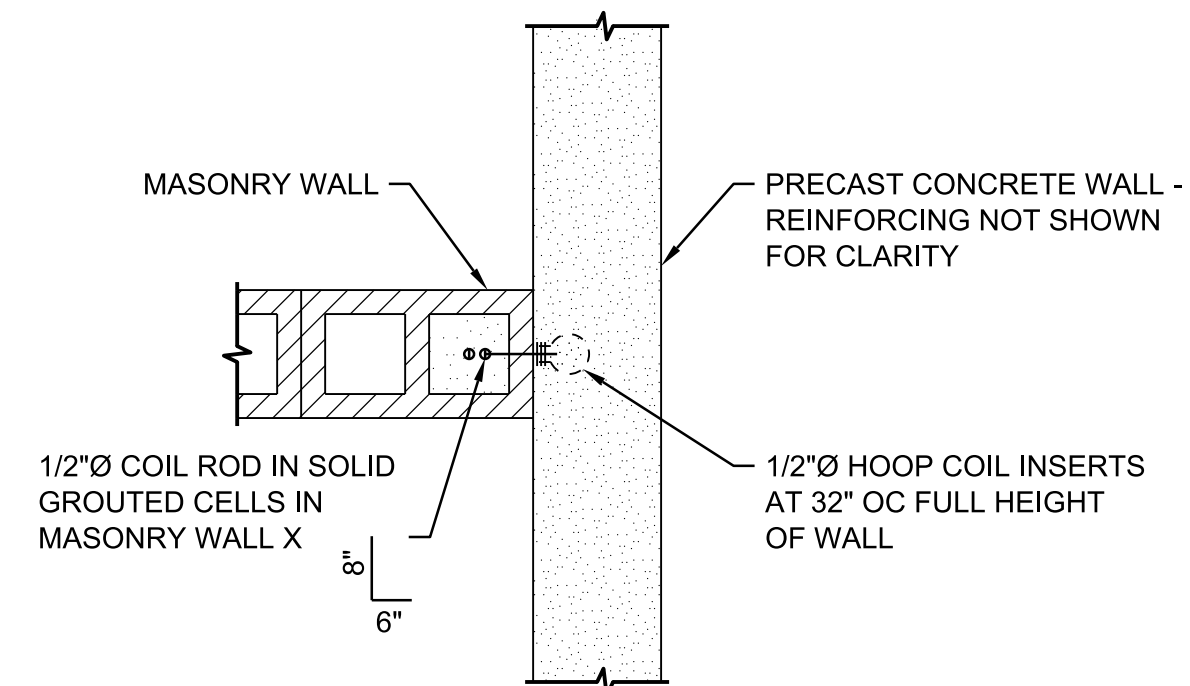
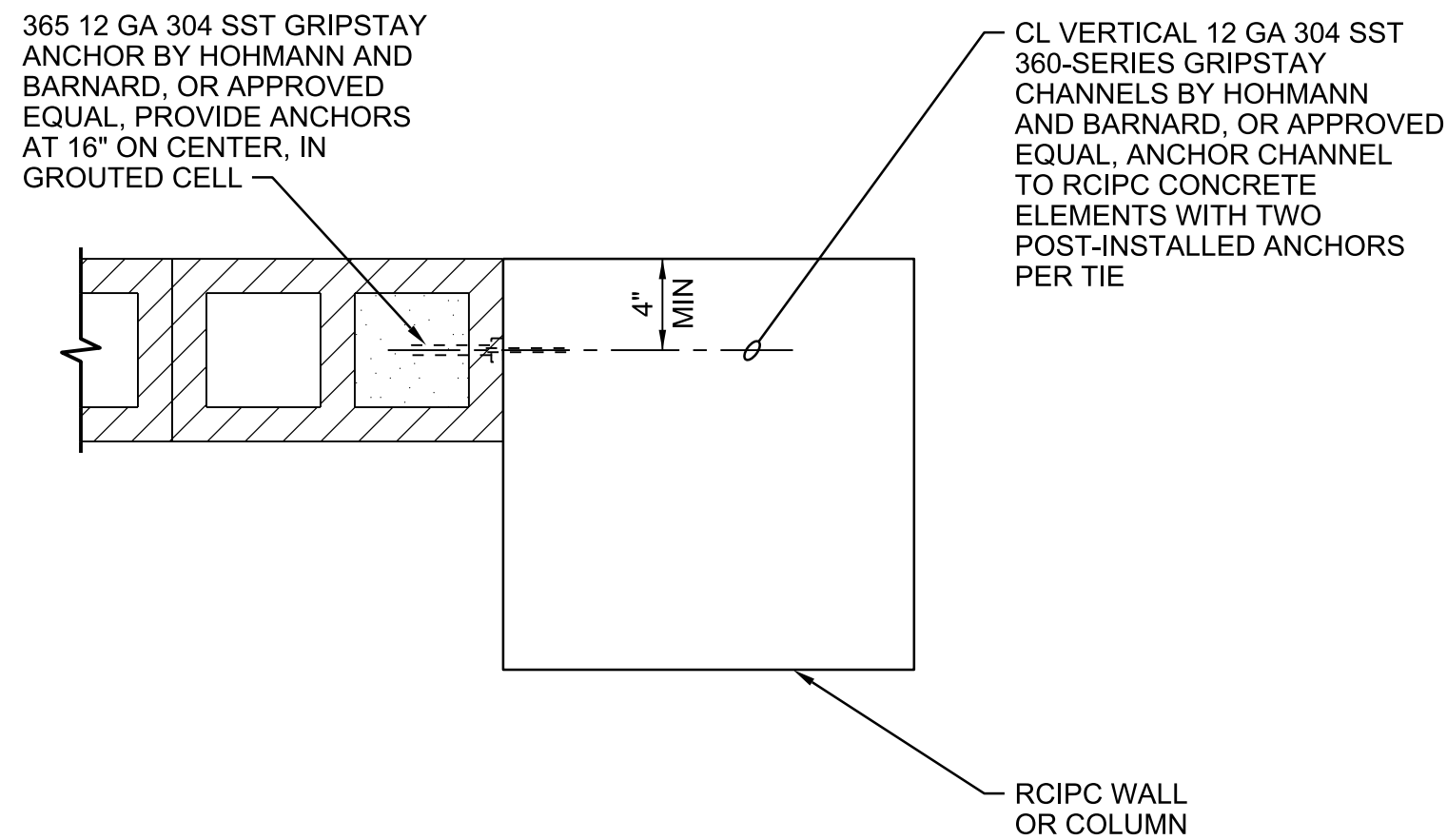
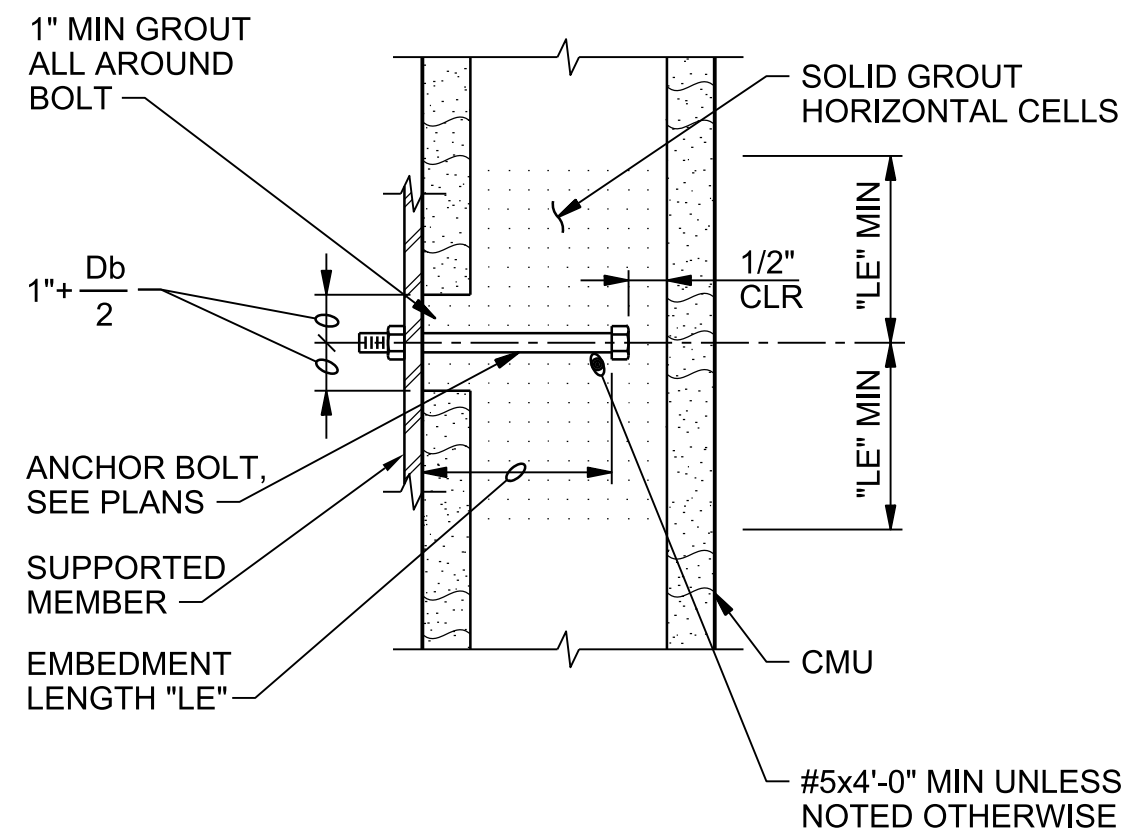
DATE

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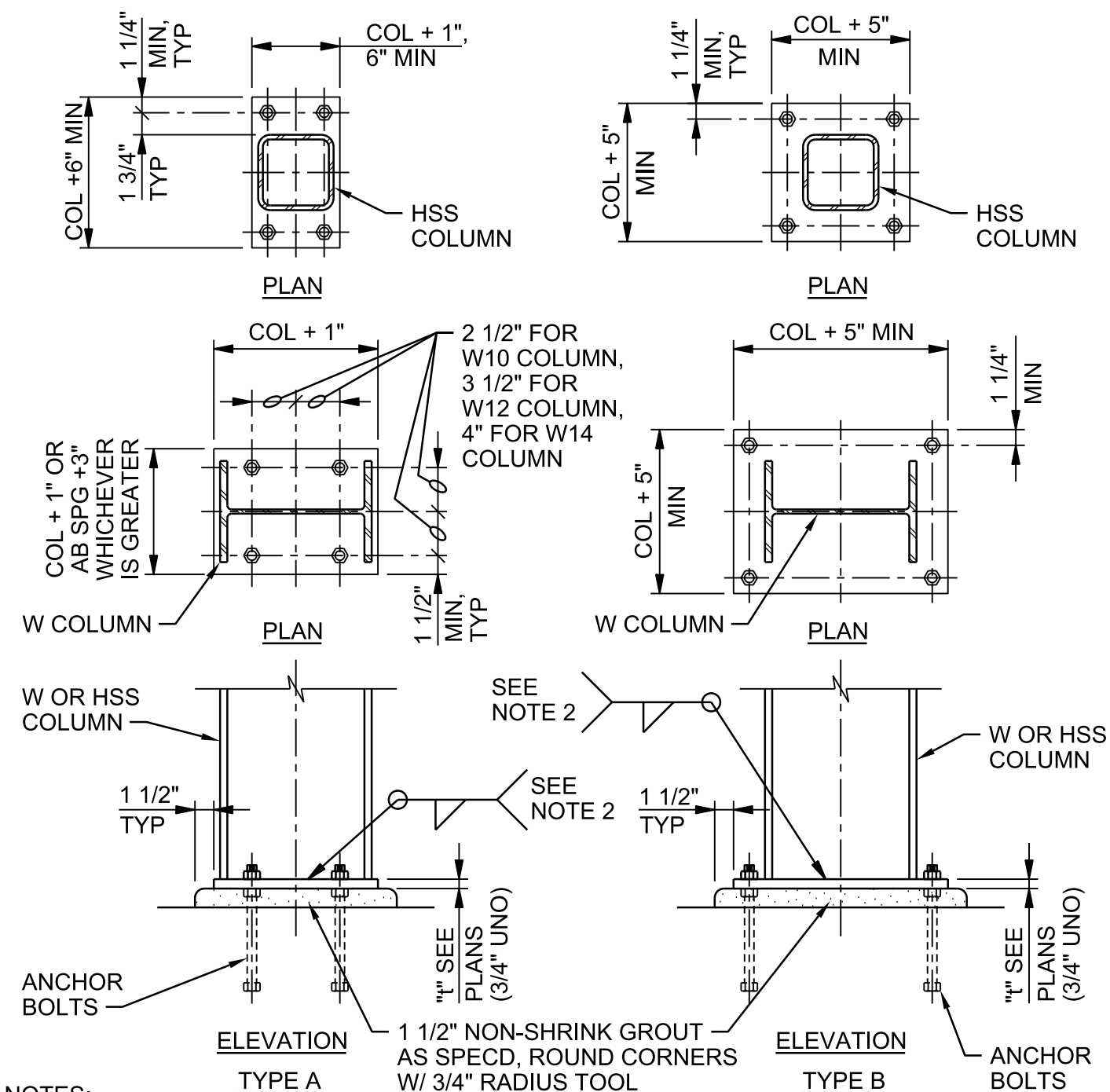


CMU WALL COLUMN



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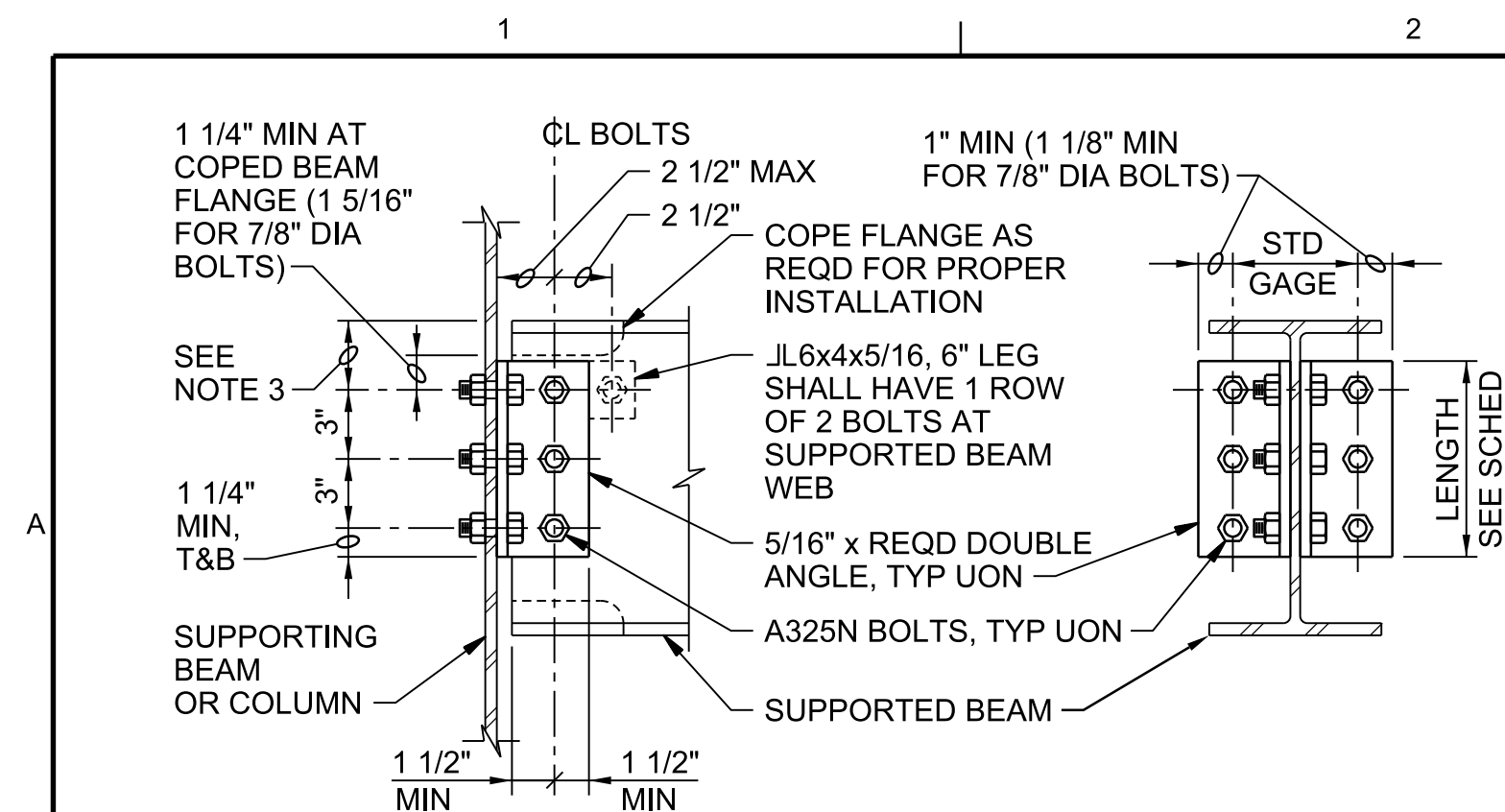
CMU CONTROL JOINT
NTS

MASONRY ANCHOR BOLT



COLUMN BASE - STEEL AND SST

		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	
		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS) MOBILE, ALABAMA	
STRUCTURAL		STANDARD DETAILS	
NO SCALE			
VERIFY SCALE			
BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"			
DATE	MAY 2021		
PROJ	D3226100		
DWG	99-S-5012		
SHEET	234 of 270		
CONFIRMED DOCUMENTS		THIS DOCUMENT AND THE IDEAS AND DESIGNS OF JACOBS ENGINEERING, INC. TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF JACOBS ENGINEERING, INC.	



NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS	BOLT DIA, INCHES	DOUBLE ANGLE, LENGTH, INCHES	COMMENTS
36	10	7/8"	2'-6"	ANGLE THK = 3/8"
33	9	7/8"	2'-3"	ANGLE THK = 3/8"
30	8	7/8"	2'-0"	ANGLE THK = 3/8"
27	7	3/4"	1'-8 1/2"	-
24	6	3/4"	1'-5 1/2"	-
21	5	3/4"	1'-2 1/2"	-
16-18	4	3/4"	0'-11 1/2"	-
12-15	3	3/4"	0'-8 1/2"	-
8-10	2	3/4"	0'-5 1/2"	-
6	1	3/4"	0'-3"	JL 6"x4"x5/16"
4	1	3/4"	0'-2 1/2"	JL 6"x4"x5/16"

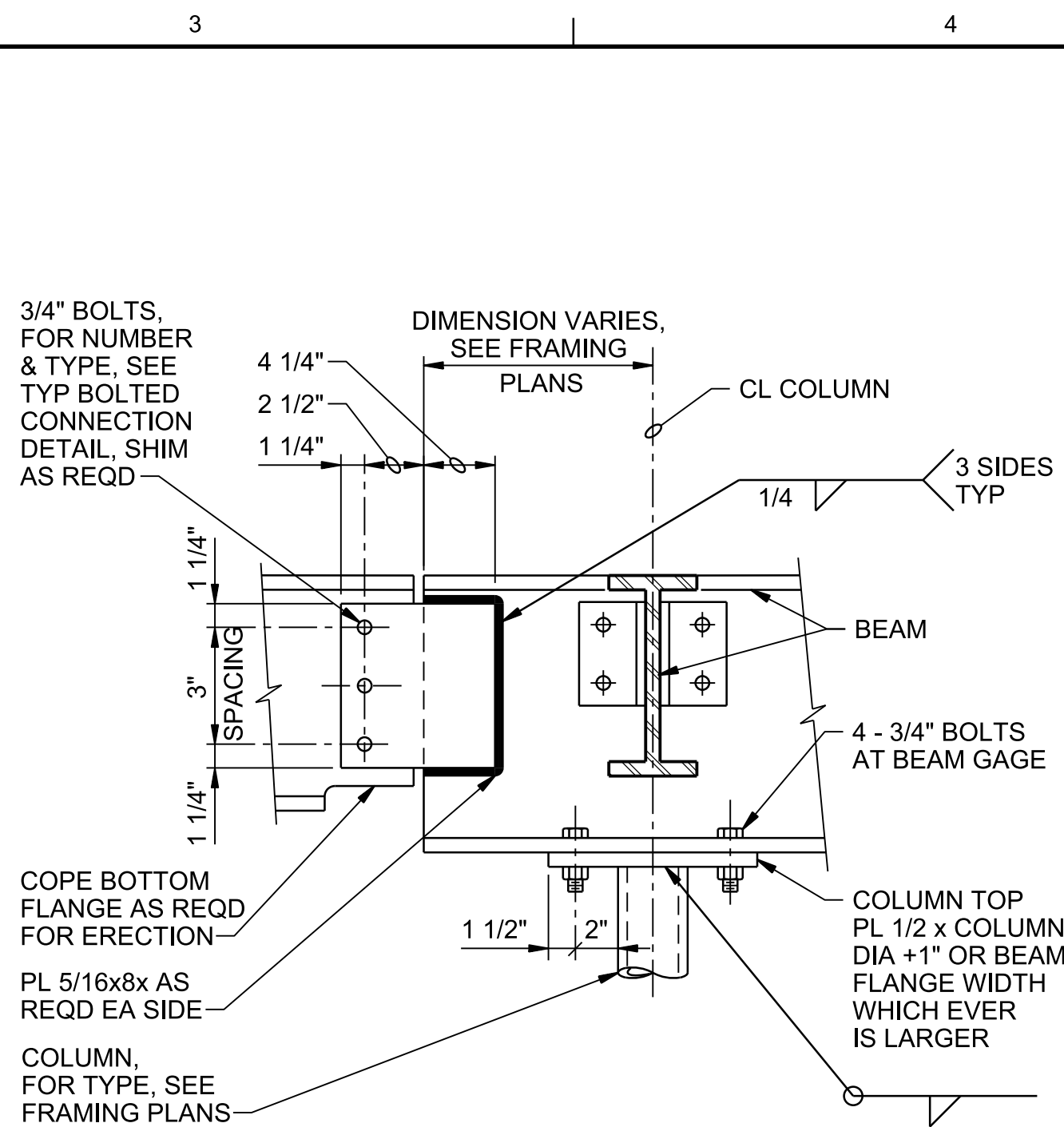
NOTES:

1. ALL BEAM FRAMING CONNECTIONS SHALL CONFORM TO THIS DETAIL UNLESS SPECIFICALLY NOTED OTHERWISE OR APPROVED IN WRITING BY THE ENGINEER.
2. PROVIDE ADDITIONAL 1 1/2" LENGTH TO DOUBLE ANGLE FOR STAGGERED BOLT CONNECTIONS WHEN REQUIRED OR USED.
3. DIMENSION SHALL BE 3" UNLESS OTHERWISE REQUIRED FOR PROPER FABRICATION.

TYPICAL BEAM CONNECTION - STEEL AND SST

NTS

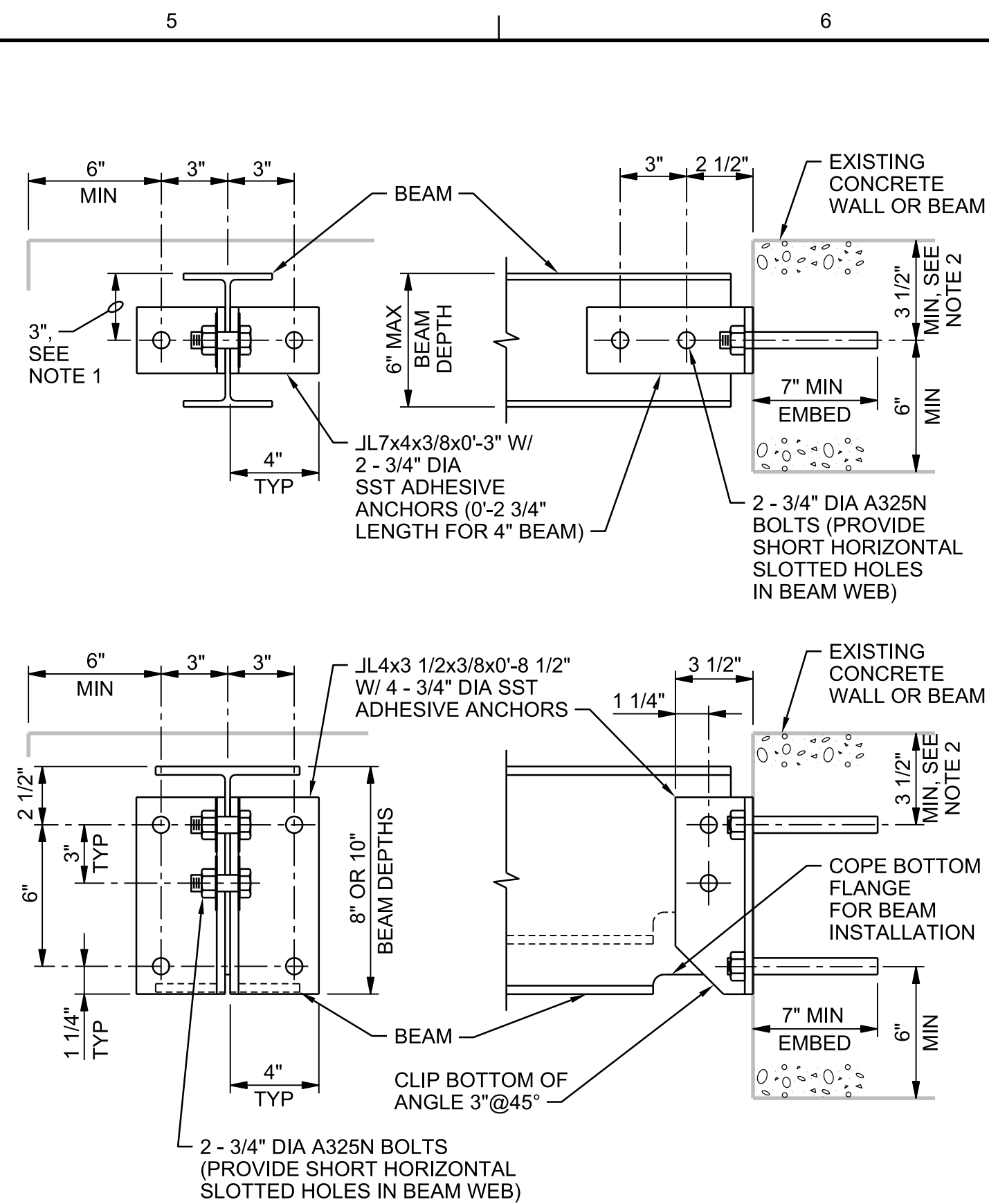
0512-020



BEAM COLUMN CONNECTION - STEEL AND SST

NTS

0512-040

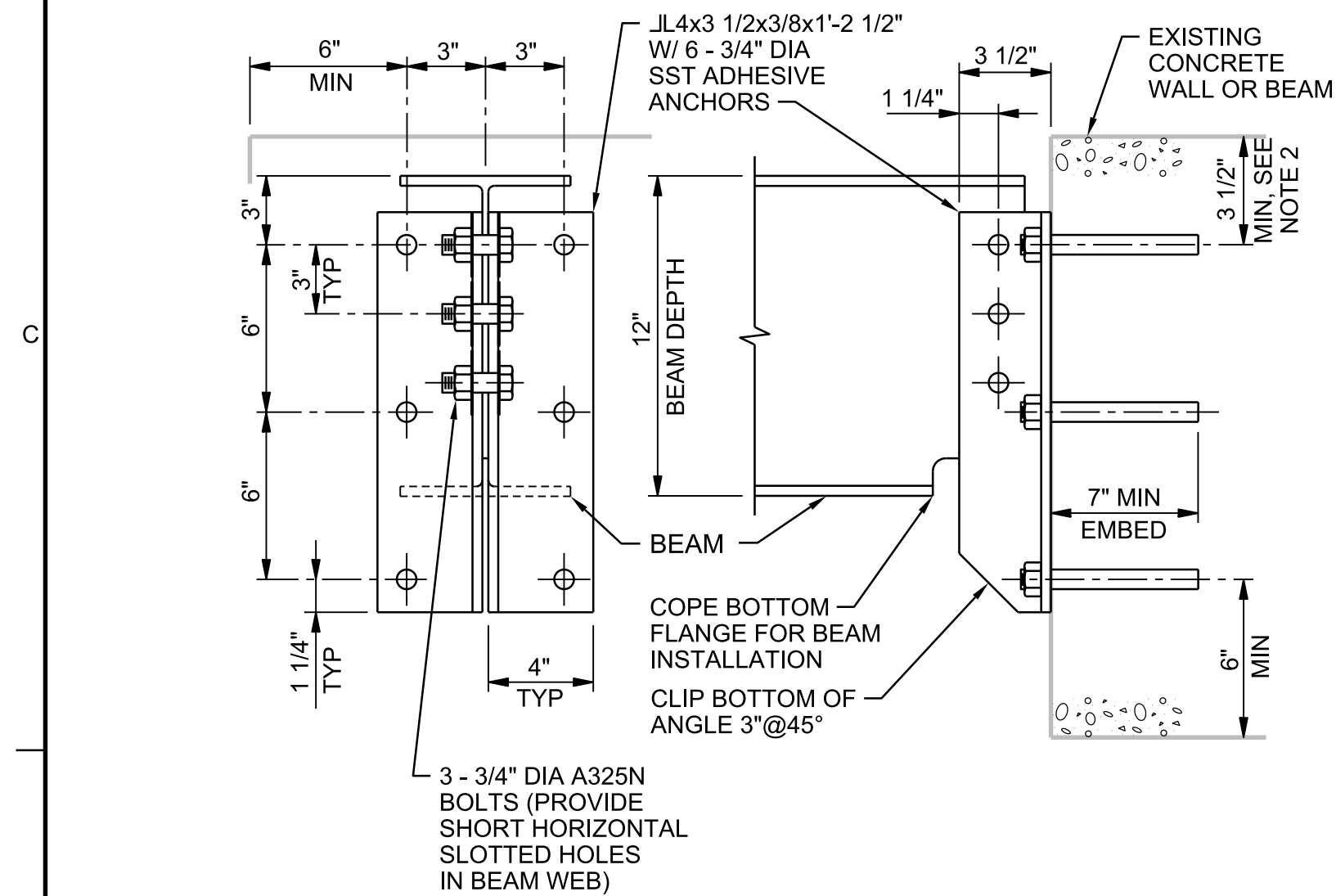


BEAM/ WALL CONNECTION - STEEL AND SST

NTS

DETAIL 1 OF 2

0512-056



NOTES:

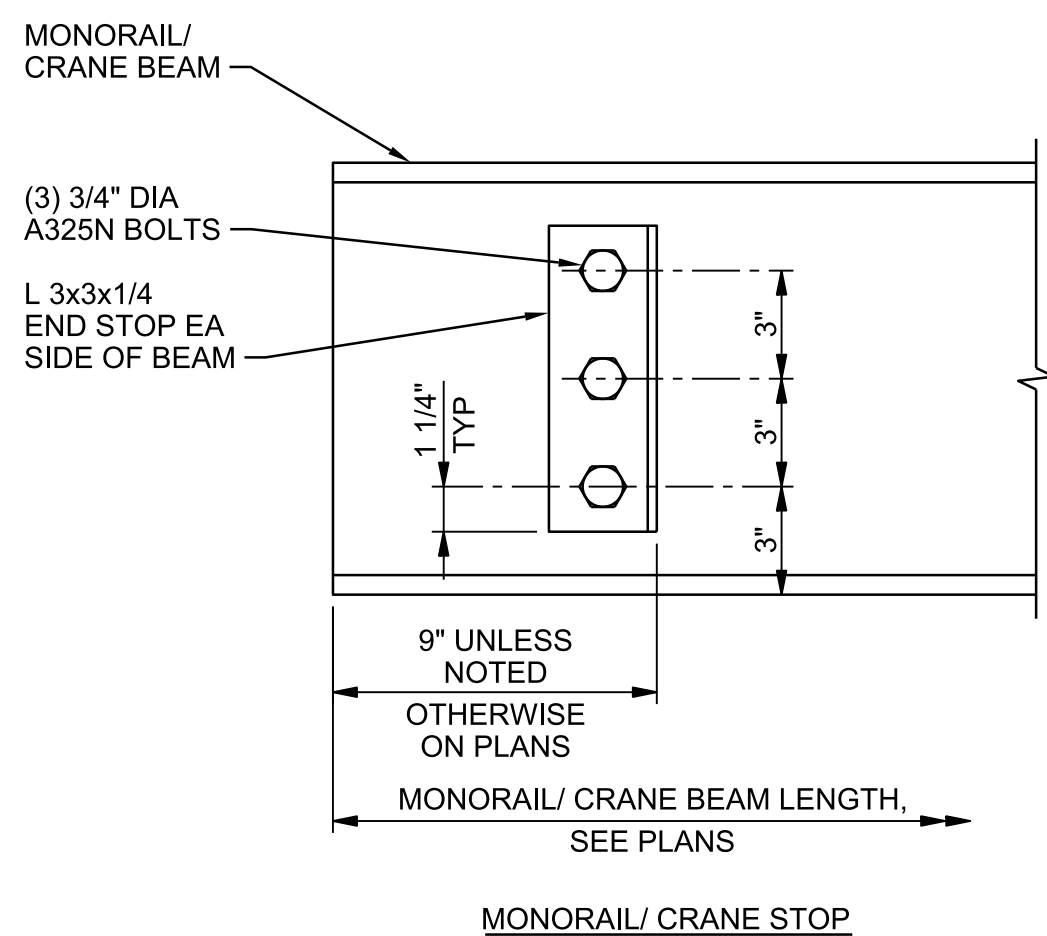
1. 3" DIMENSION TYPICAL EXCEPT 2 1/2" FOR 5" BEAMS AND 2" FOR 4" BEAMS.
2. DO NOT CUT EXISTING CONCRETE BEAM TOP REINFORCING DURING DRILL-IN ANCHOR INSTALLATION. FIELD LOCATE BEAM REINFORCING PRIOR TO FABRICATION WITH GROUND PENETRATING RADAR OR OTHER ACCEPTABLE MEANS. ADD LENGTH TO CLIP ANGLES AS REQUIRED TO LOWER ANCHORS TO CLEAR REINFORCING WHILE MAINTAINING SPACING AND EDGE DISTANCE AS SHOWN.
3. WHERE BOTH ENDS OF BEAM ARE ATTACHED TO A WALL, PROVIDE LONG HORIZONTALLY SLOTTED HOLES IN BEAM WEB AT ONE END. TIGHTEN NUTS SNUG TIGHT, BACK OFF 1/2 TURN, AND LOCK WITH DOUBLE NUT.

BEAM/ WALL CONNECTION - STEEL AND SST

NTS

DETAIL 2 OF 2

0512-056



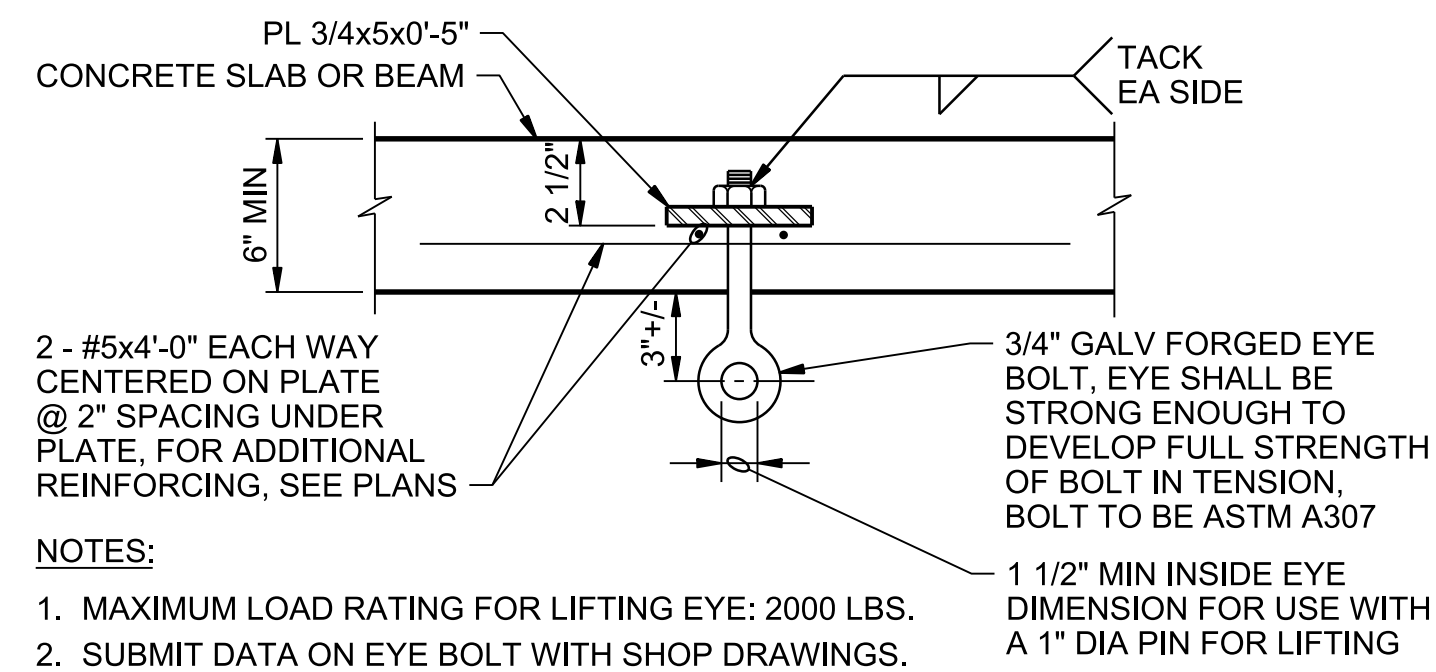
NOTE:

1. STOP DESIGN FORCE = 9 KIPS (SERVICE-LEVEL INCLUDES A SAFETY FACTOR OF 2). VERIFY DESIGN FORCE WITH STOP/ BUFFER FORCE INDICATED ON CERTIFIED DRAWINGS PRIOR TO FABRICATION.

MONORAIL AND CRANE DETAILS

NTS

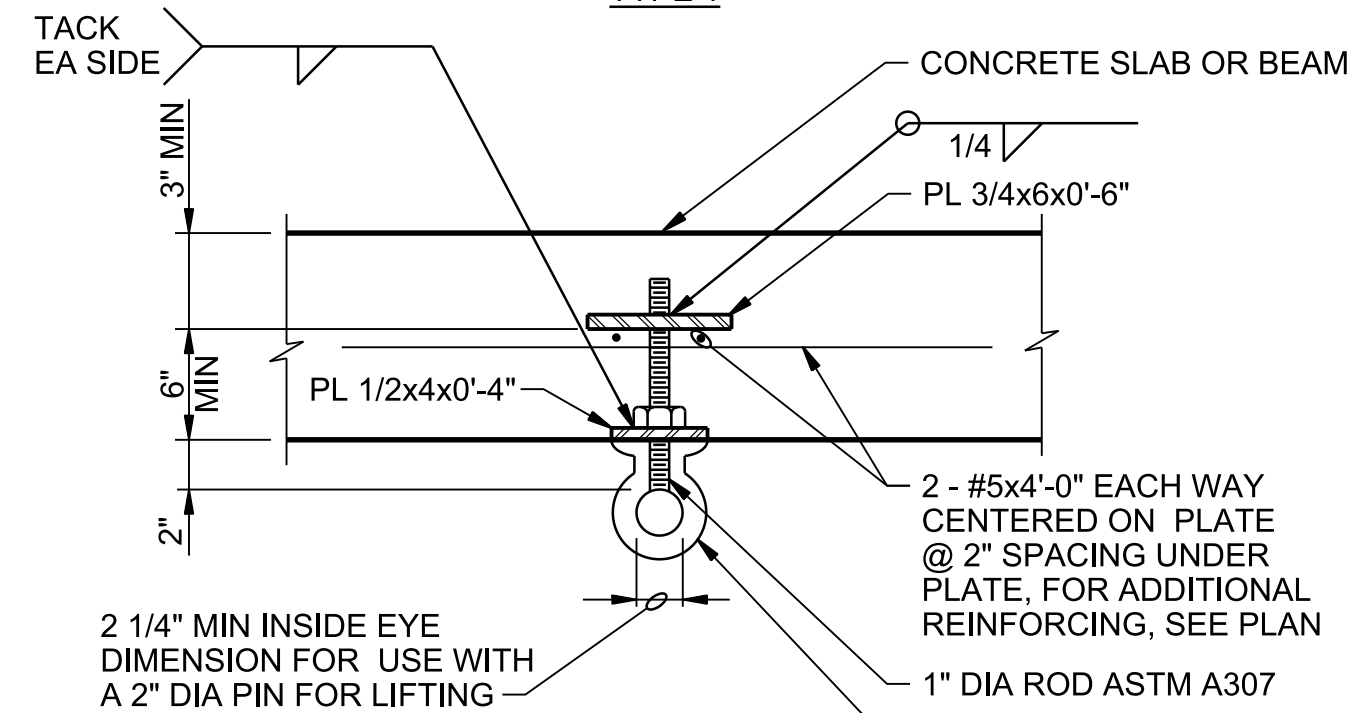
0512-101



NOTES:

1. MAXIMUM LOAD RATING FOR LIFTING EYE: 2000 LBS.
2. SUBMIT DATA ON EYE BOLT WITH SHOP DRAWINGS.

TYPE 1



NOTES:

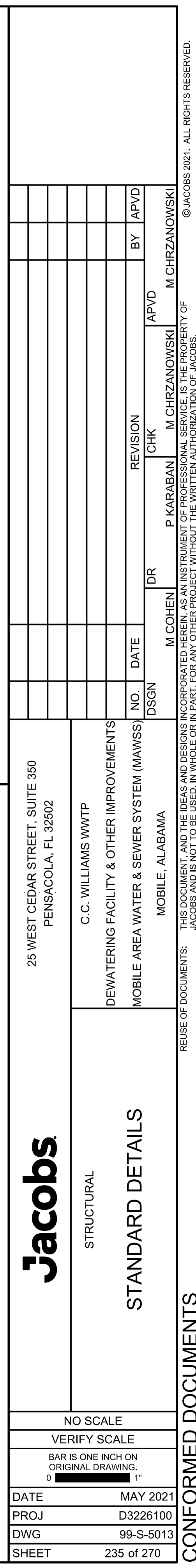
1. MAXIMUM LOAD RATING FOR LIFTING EYE 4000 LBS.
2. SUBMIT DATA ON EYE BOLT WITH SHOP DRAWINGS.

TYPE 2

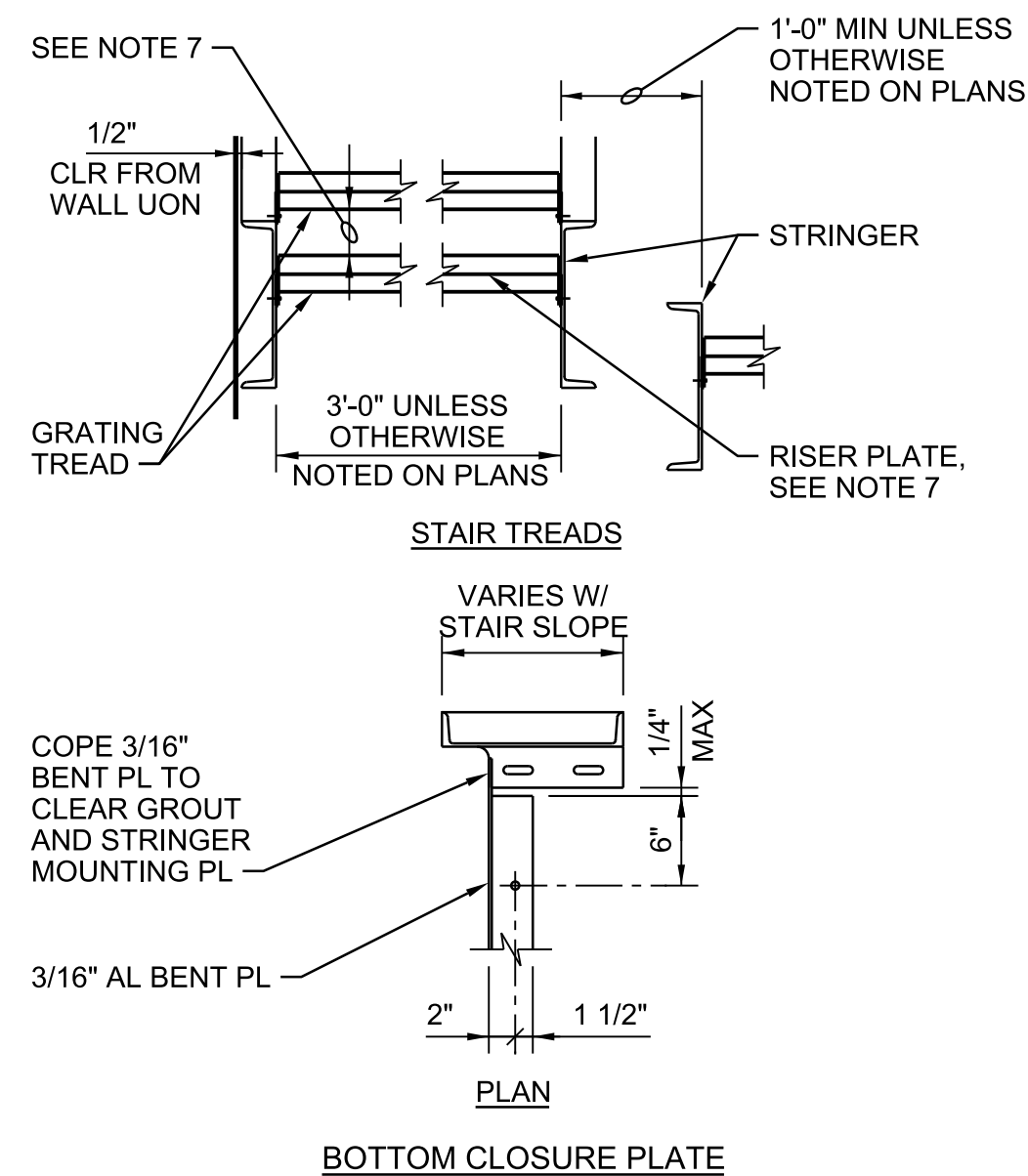
LIFTING EYE

NTS

0512-121



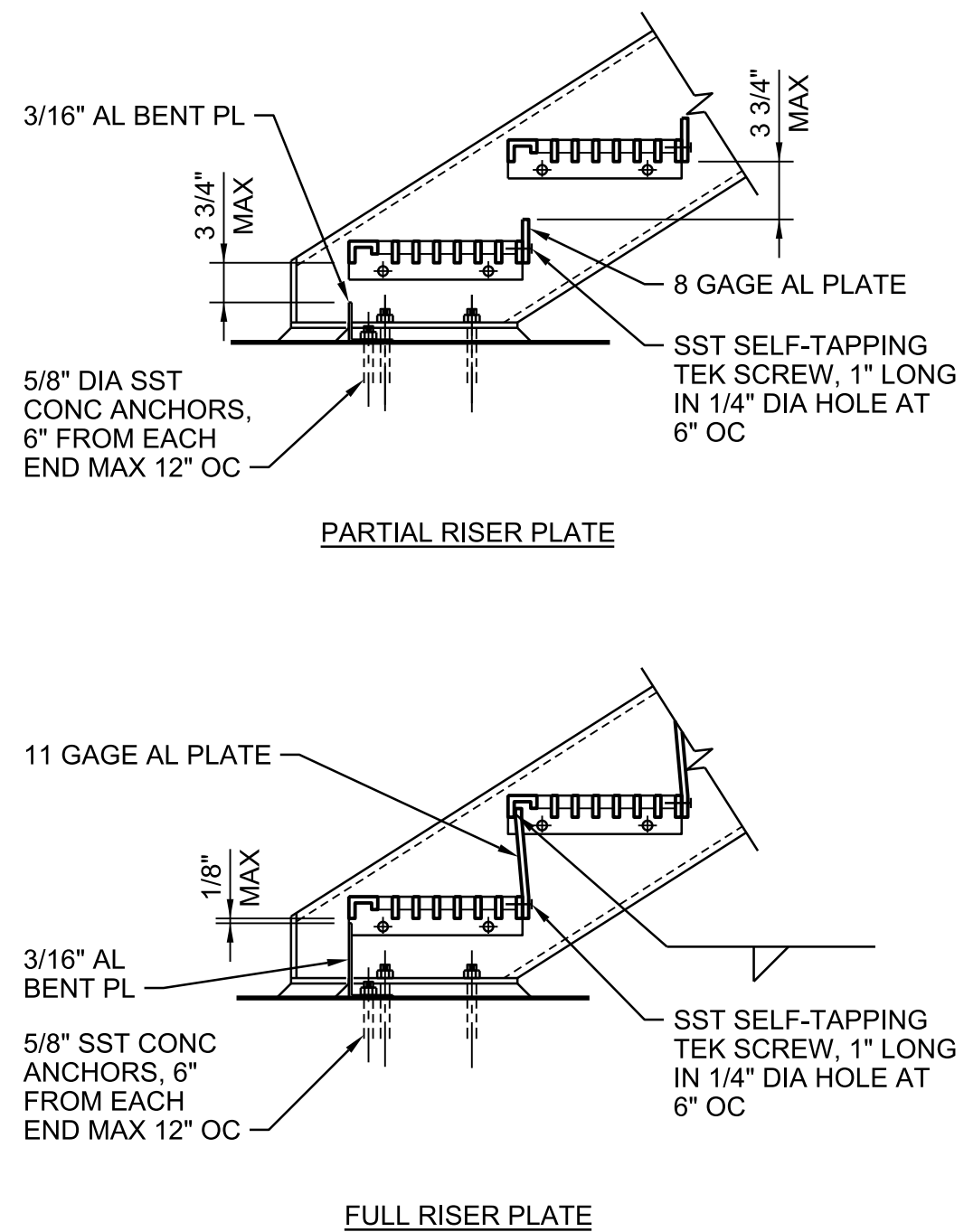
STAIRWAY WIDTH	TREAD BEARING BARS
	ALUMINUM TREAD
2'-3" OR LESS	1" x 3/16"
2'-9" OR LESS	1 1/4" x 3/16"
3'-3" OR LESS	1 1/2" x 3/16"
4'-7" OR LESS	1 3/4" x 3/16"



DETAIL 4 OF 5

STAIR DETAILS - ALUMINUM

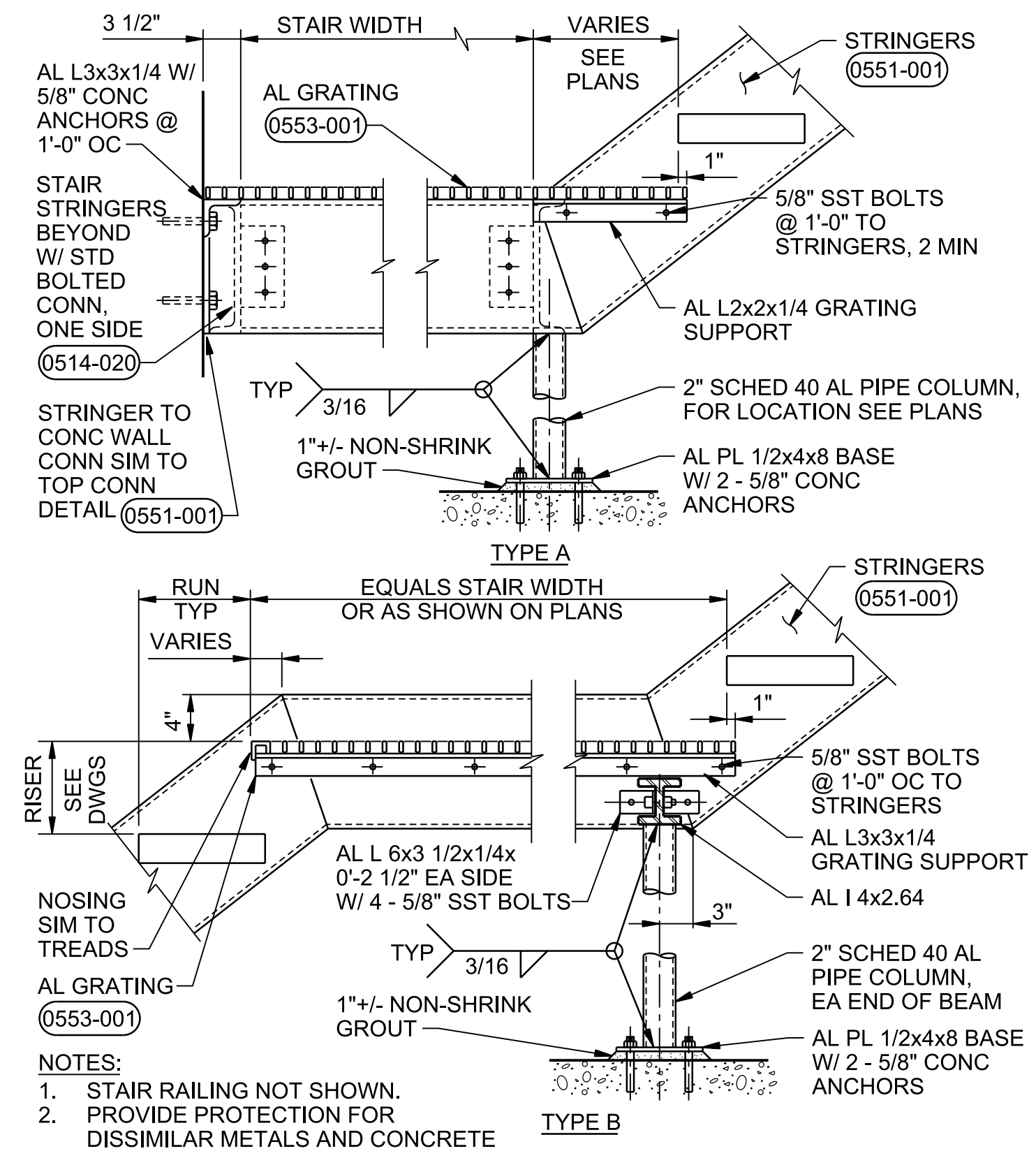
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DETAIL 5 OF 5

STAIR DETAILS - ALUMINUM

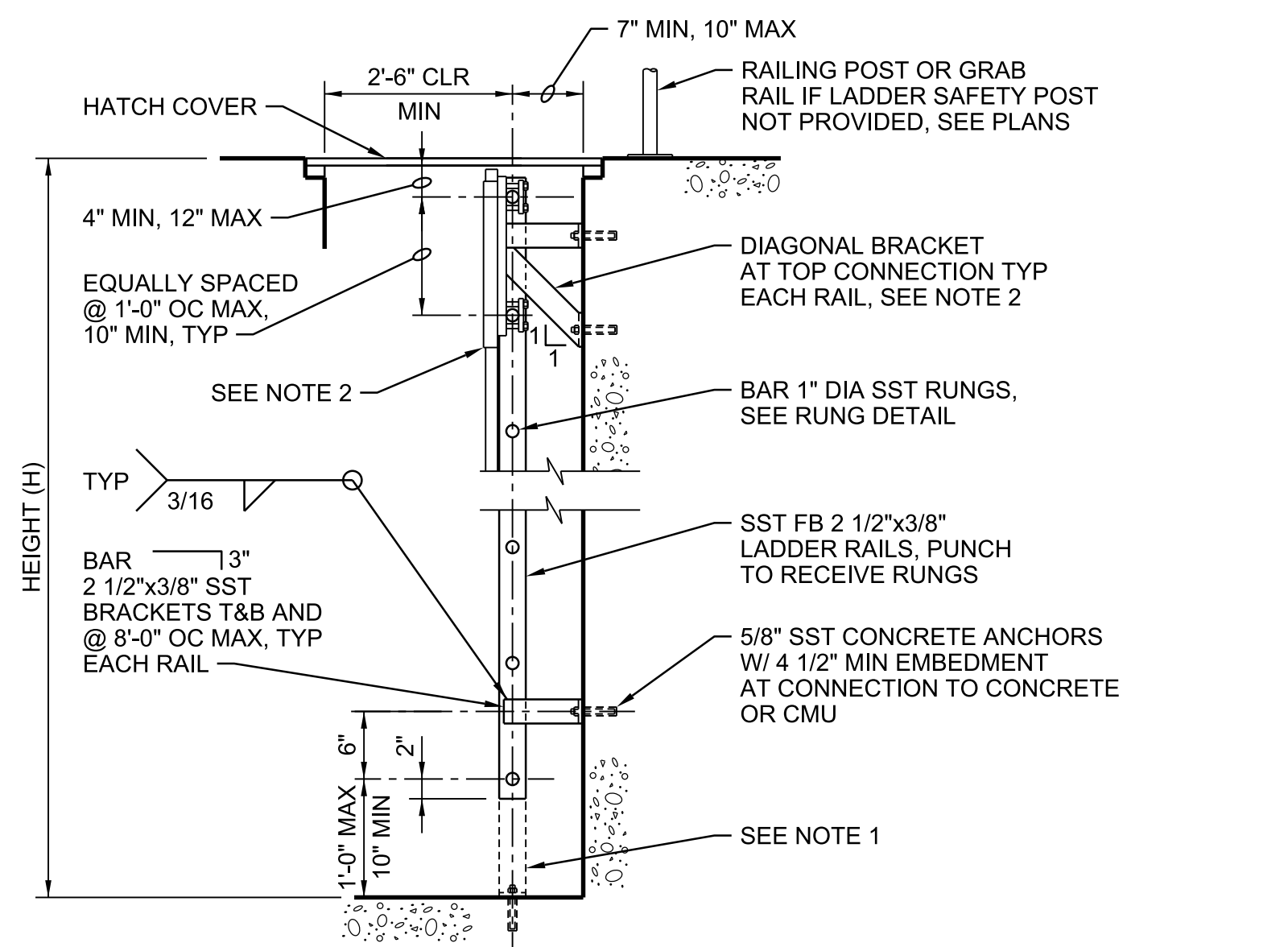
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STAIR LANDING WITH SUPPORTS - ALUMINUM

NTS

0551-002



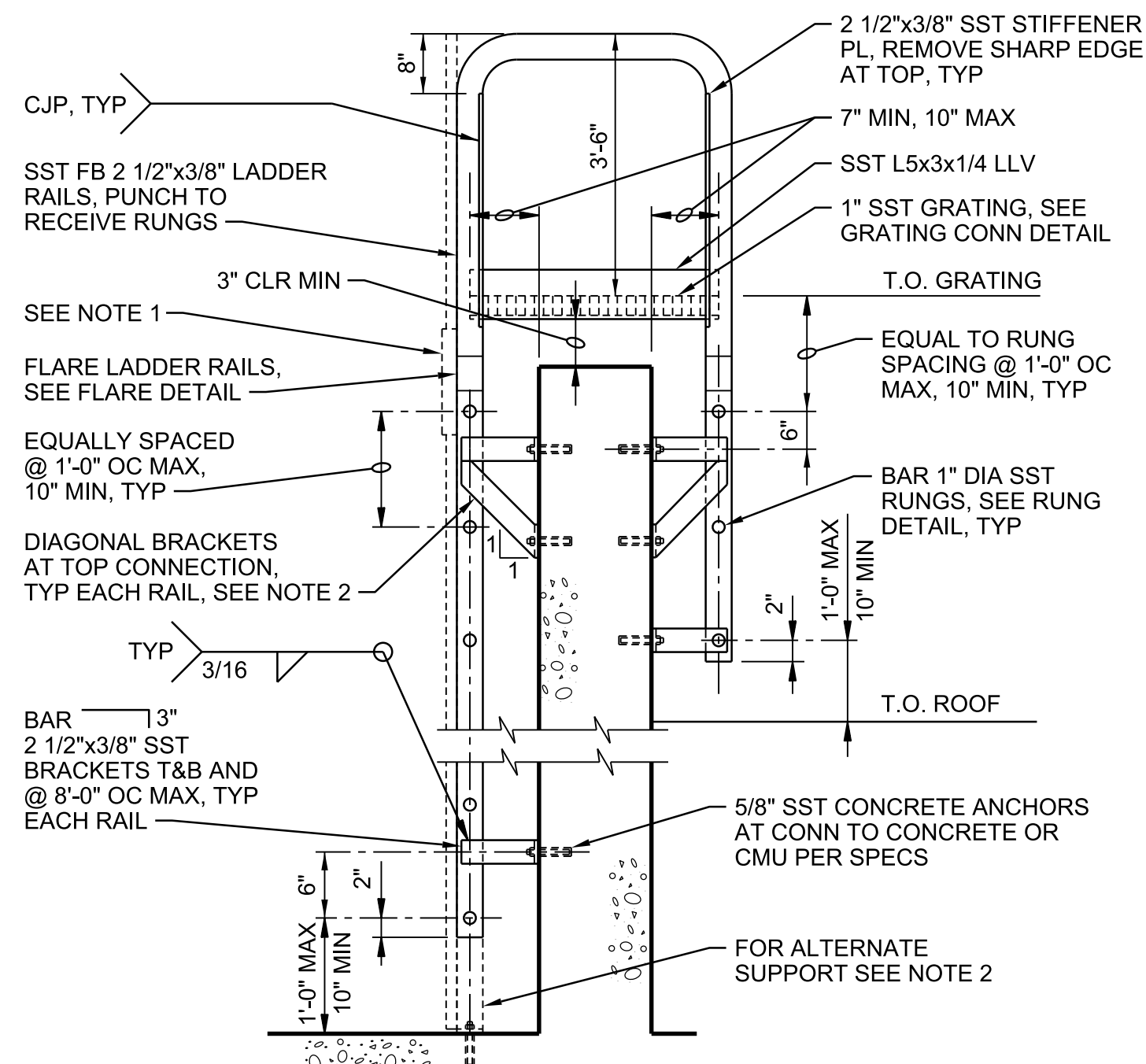
NOTES:

1. AT INTERIOR DRY AREAS, EXTEND RAILS AND BEND 3" AT FLOOR. SECURE WITH 5/8" SST CONCRETE ANCHORS. DIAGONAL BRACKET NOT REQUIRED IF BASE OF LADDER EXTENDS TO SLAB BELOW.
2. FOR H LESS THAN OR EQUAL TO 24'-0", PROVIDE LADDER SAFETY POST.
FOR H GREATER THAN 24'-0", PROVIDE SAFETY CLIMB DEVICE WITH LADDER POST SAFETY EXTENSION.

DETAIL 1 OF 6

FLAT BAR LADDER UNDER
COVER TYPE 'A' - SST

NTS



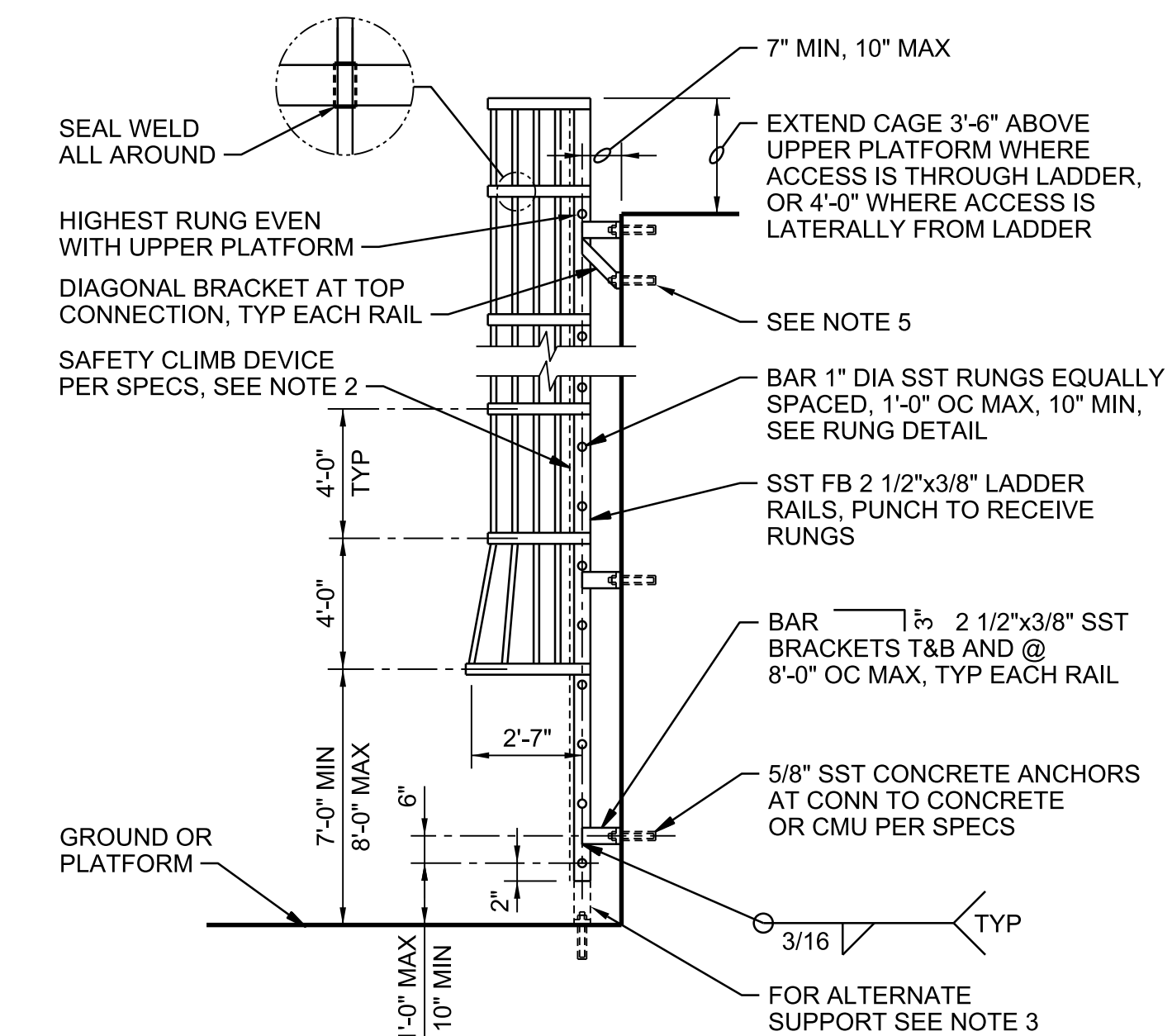
NOTES:

1. FOR H GREATER THAN 24'-0", PROVIDE SAFETY CLIMB DEVICE.
2. FOR INTERIOR, DRY AREAS, EXTEND RAILS AND BEND 3" AT FLOOR. SECURE WITH 5/8" CONCRETE ANCHORS. DIAGONAL BRACKET NOT REQUIRED IF ALTERNATE SUPPORT PROVIDED.

DETAIL 2 OF 6

FLAT BAR LADDER UP AND
OVER TYPE 'C' - SST

NTS



NOTES:

1. SUBMIT COORDINATED SHOP DRAWINGS.
2. PROVIDE SAFETY CLIMB DEVICE FOR LADDERS 24'-0" OR GREATER IF SHOWN ON PLANS.
3. FOR INTERIOR, DRY AREAS, EXTEND RAILS AND BEND 3" AT FLOOR. SECURE WITH 5/8" CONCRETE ANCHORS.
4. PROVIDE SEAL WELDS AT ALL CONTACT SURFACES WHERE STRUCTURAL WELDS ARE NOT REQUIRED.
5. PROVIDE 3/4" DIA CON ANCHORS WITH 5 1/2" MINIMUM EMBED AT DIAGONAL BRACKET WALL CONNECTIONS.
6. AT EXTERIOR LADDERS, PROVIDE LADDER CLIMB PREVENTION SHIELD.

DETAIL 3 OF 6

LADDER WITH SAFETY CAGE - SST

NTS


0551-141

25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	C.C. WILLIAMS WWTP	SEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
--	--------------------	--

Jacobs.

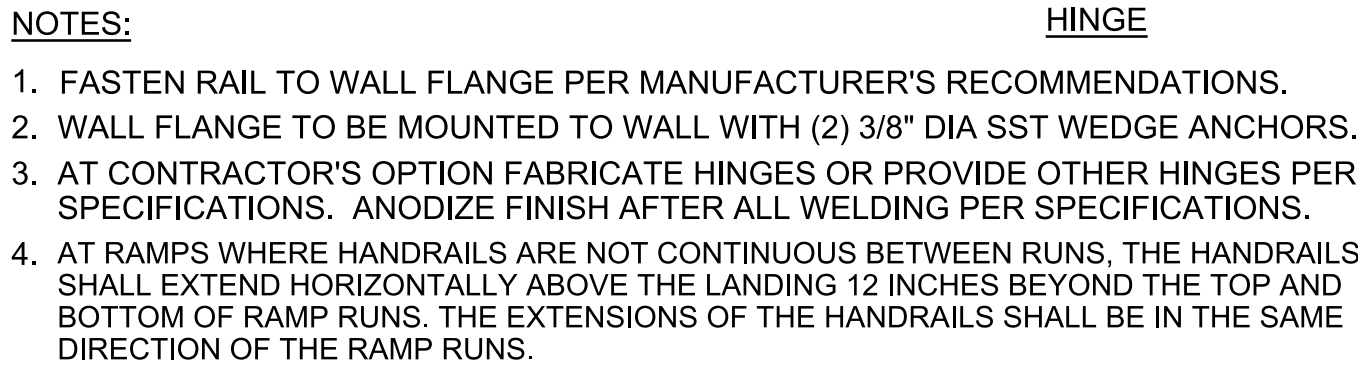
STRUCTURAL

STANDARD DETAILS

NO SCALE	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"	
DATE	MAY 2021
PROJ	D3226100
DWG	99-S-5015
SHEET	237 of 270

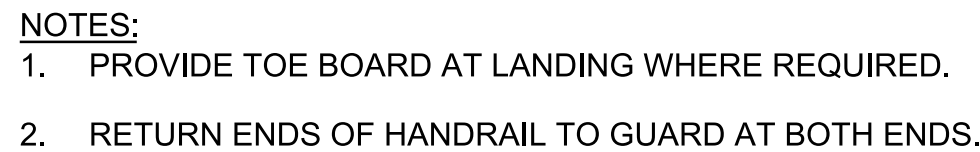
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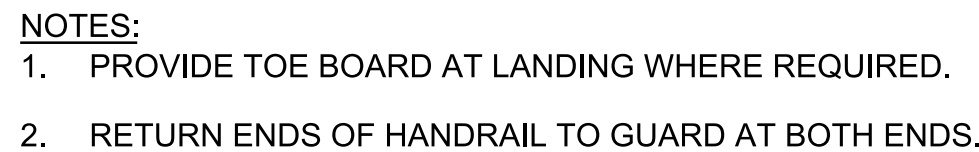
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0522-001



NTS

0522-001



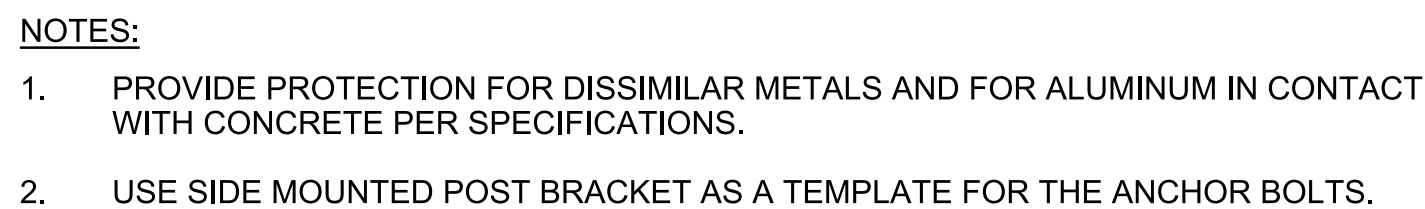
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0522-001



NTS

0522-001



NTS

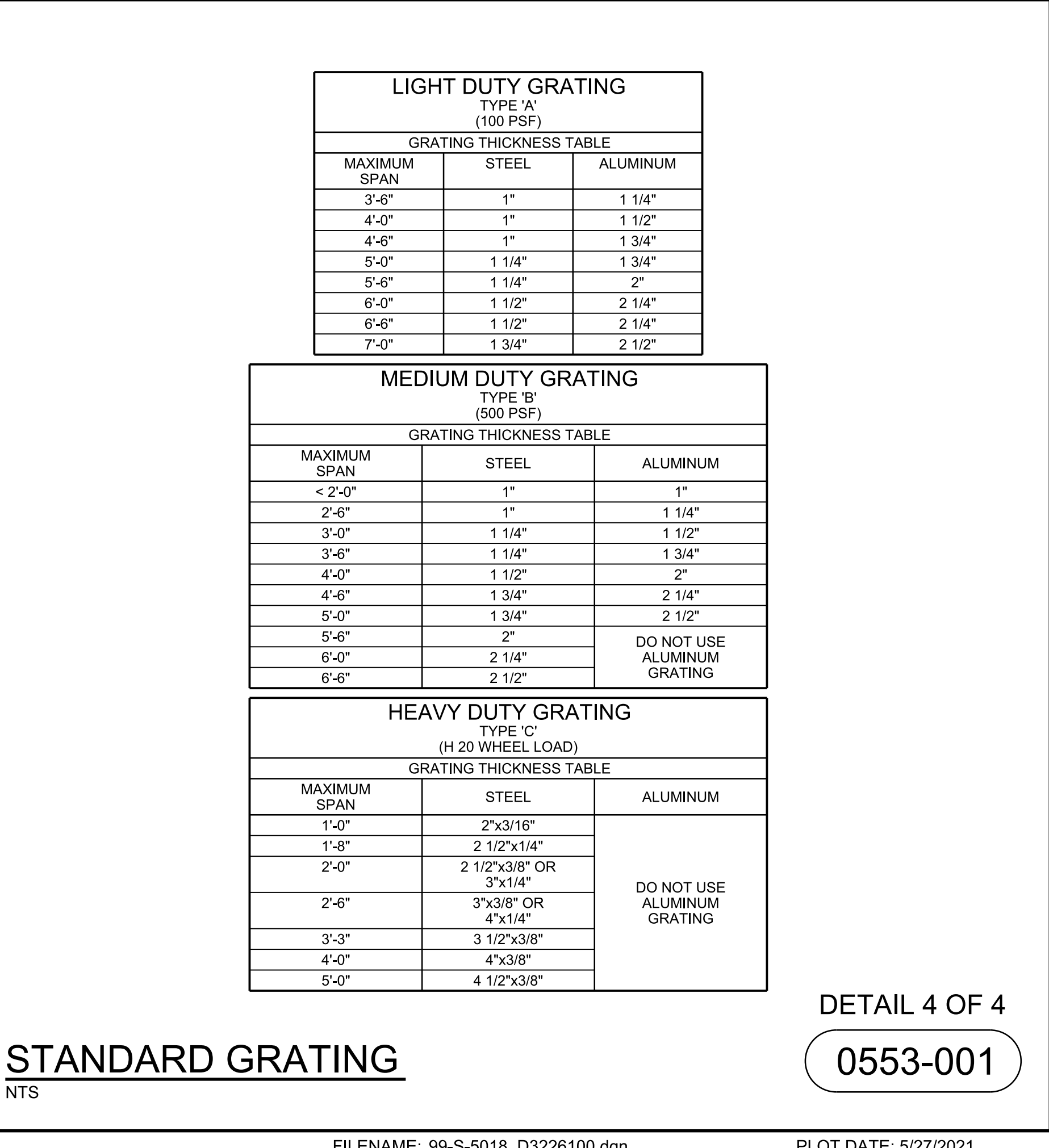
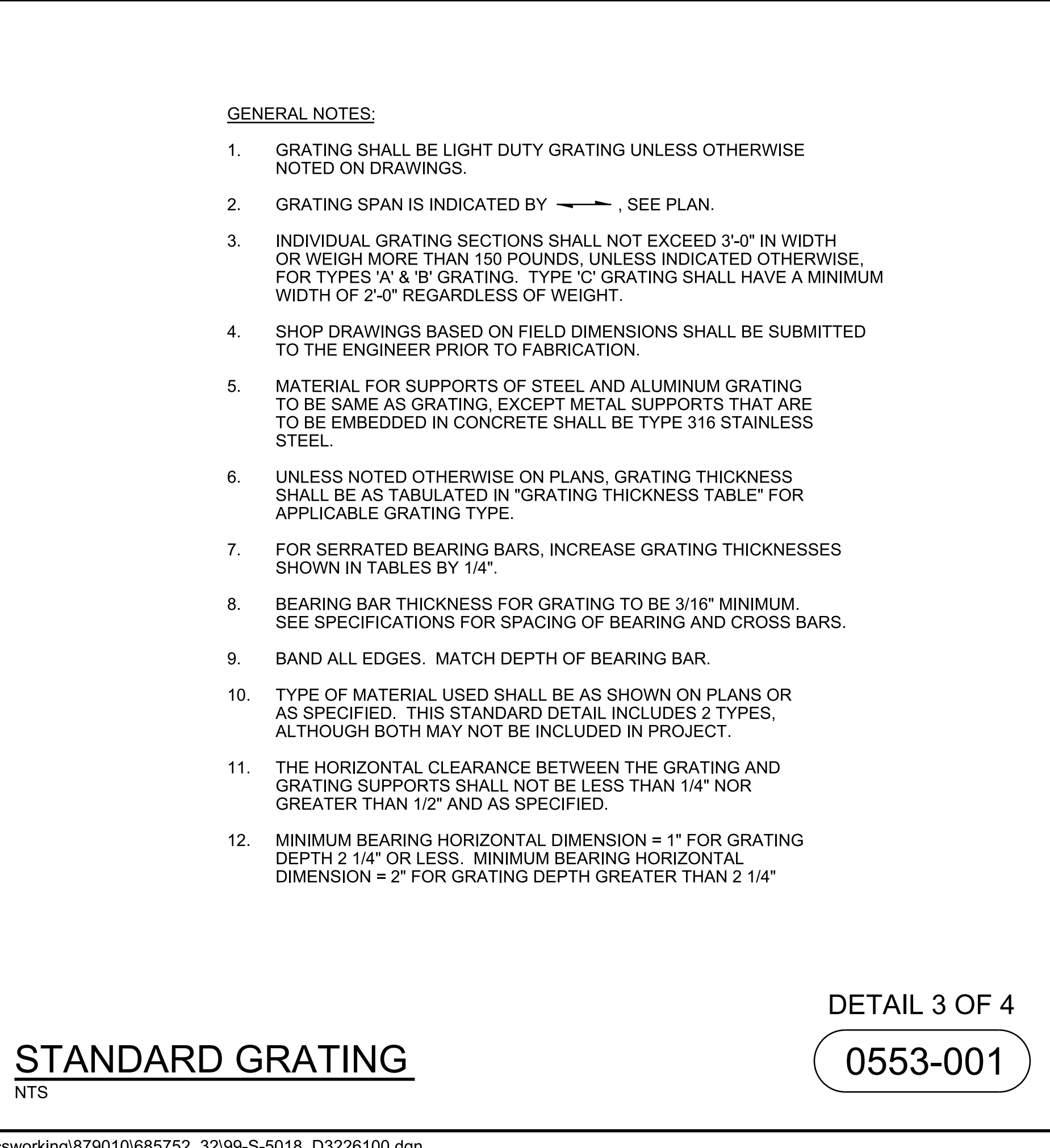
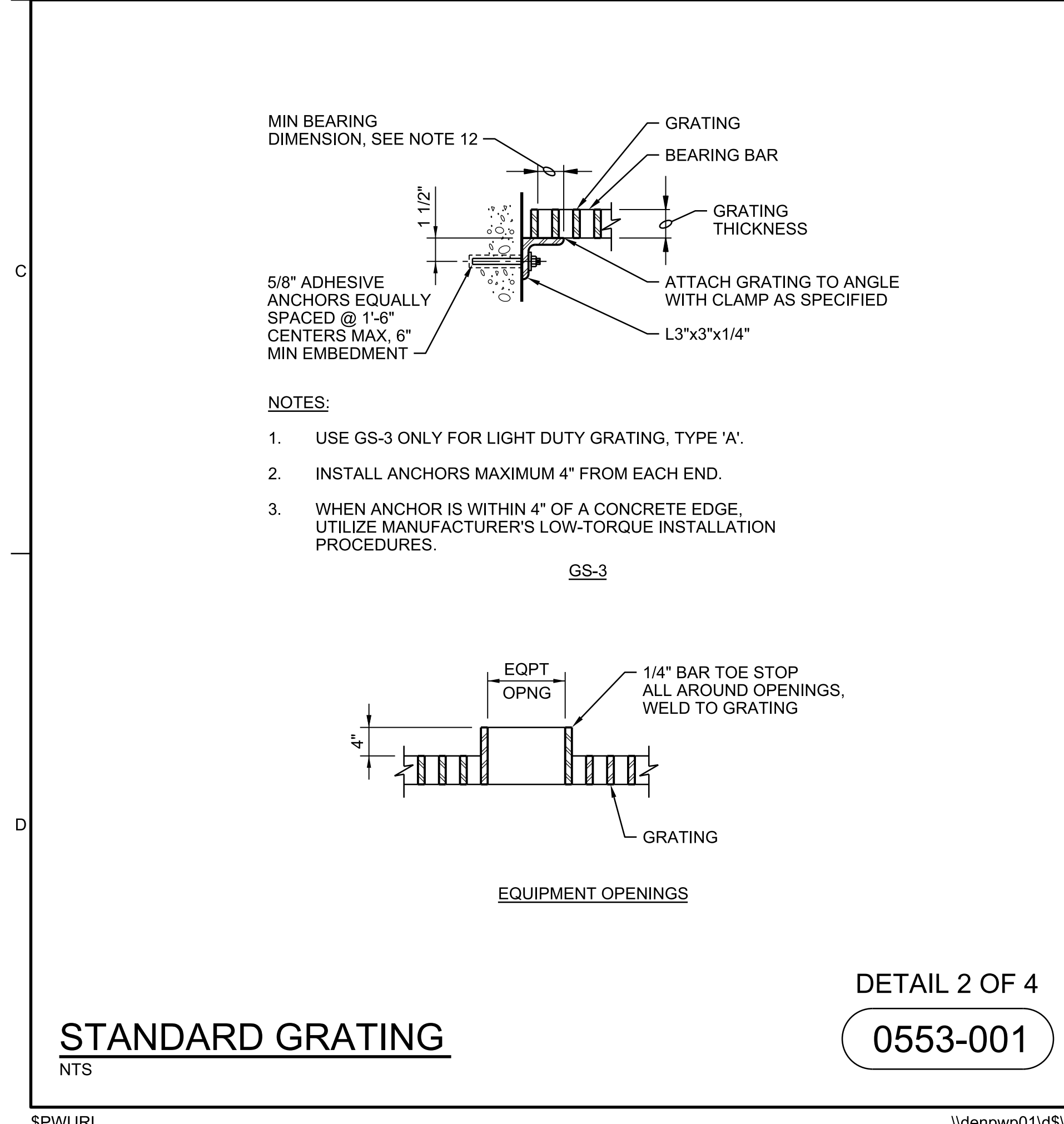
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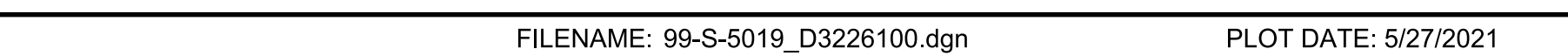
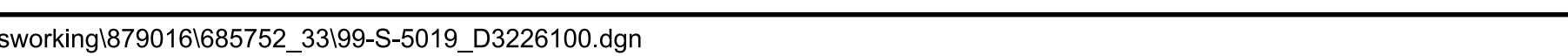
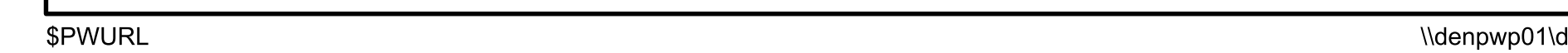


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0522-001

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(1014-001)



(1014-002)



(1014-003)



1014-006



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CONFIRMED DOCUMENTS




0770-024



0770-031

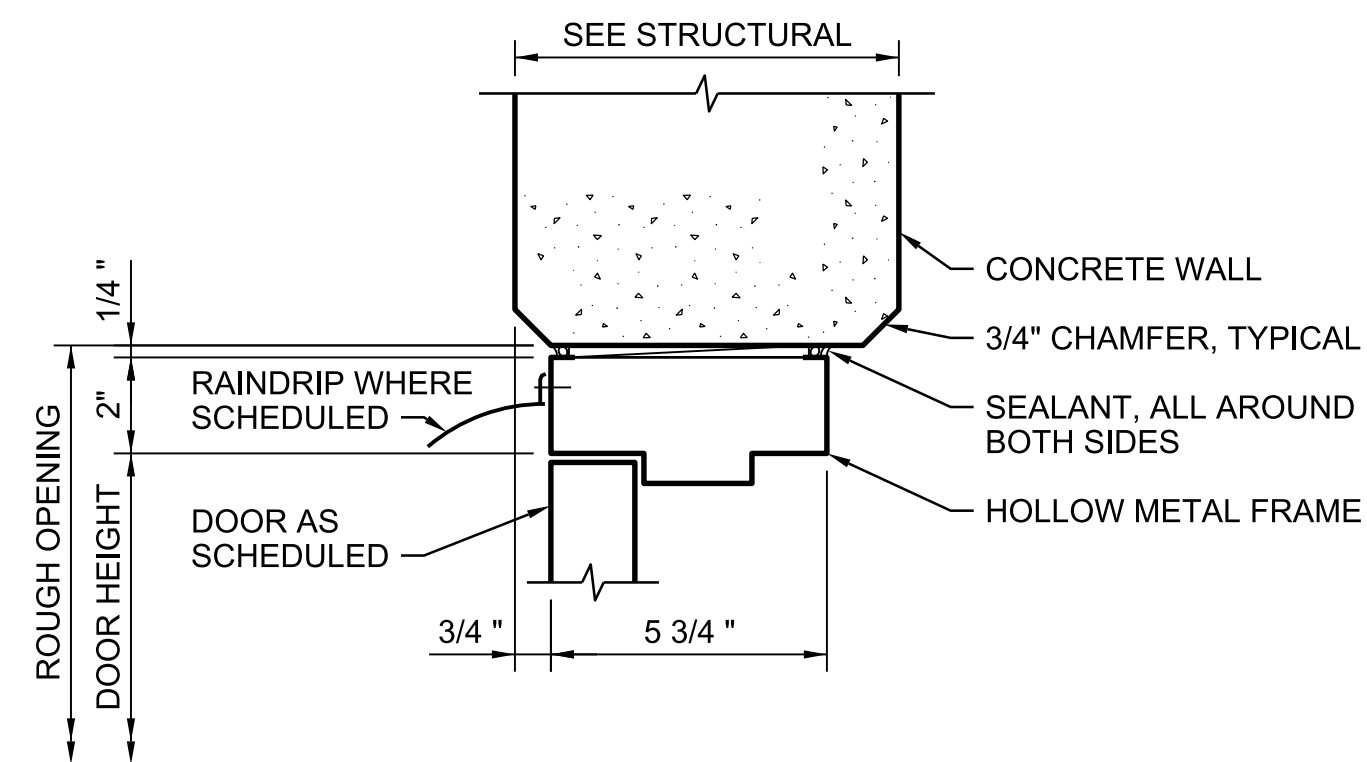


0770-038

		25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502	
		C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IMPROVEMENTS MOBILE AREA WATER & SEWER SYSTEM (MAWSS)	
ARCHITECTURAL STANDARD		MOBILE, ALABAMA	
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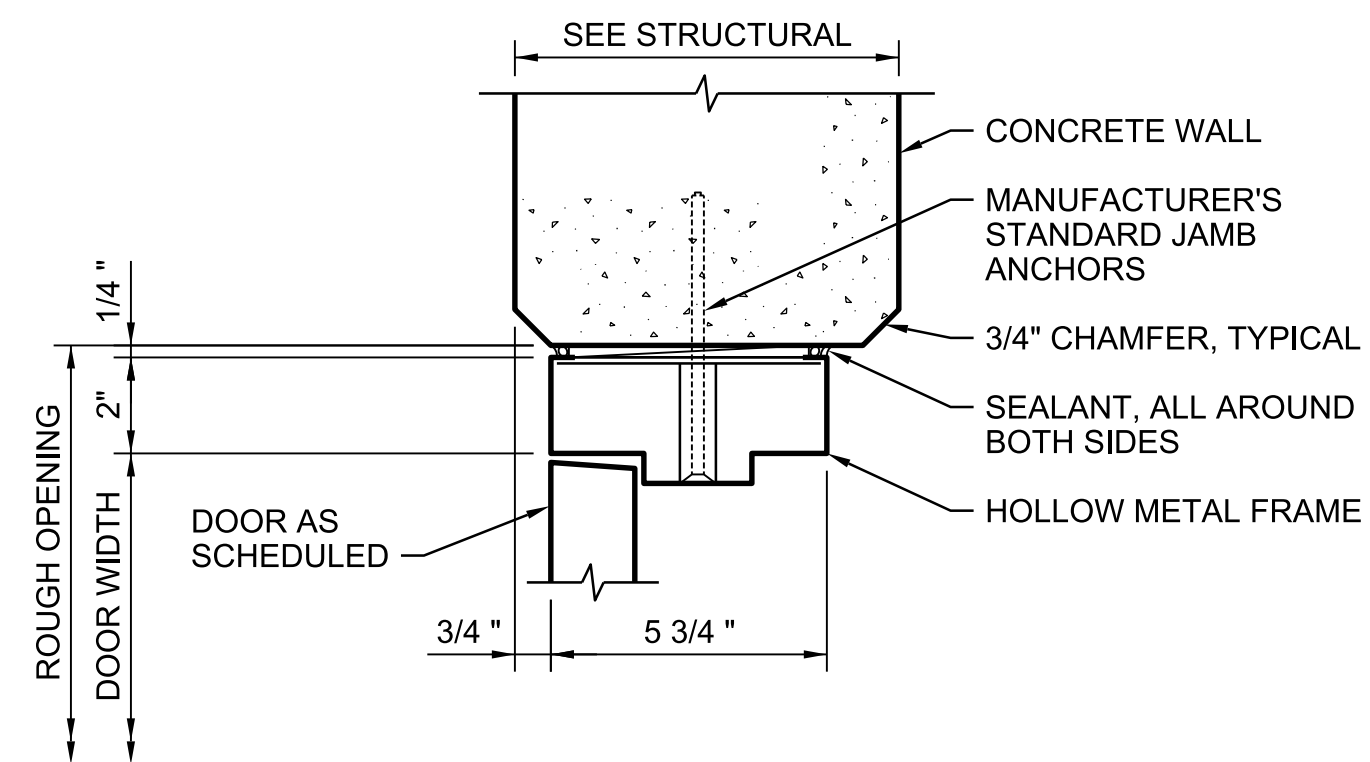
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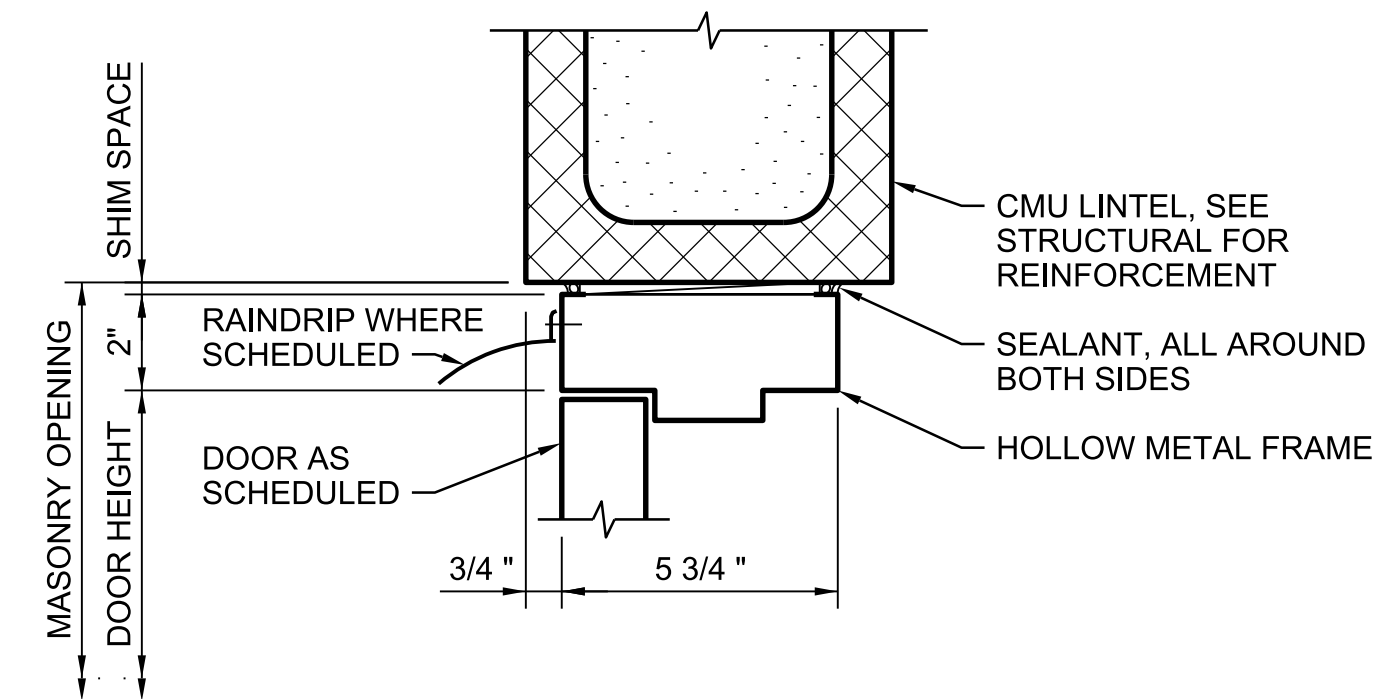
DOOR HEAD
NTS

0811-001



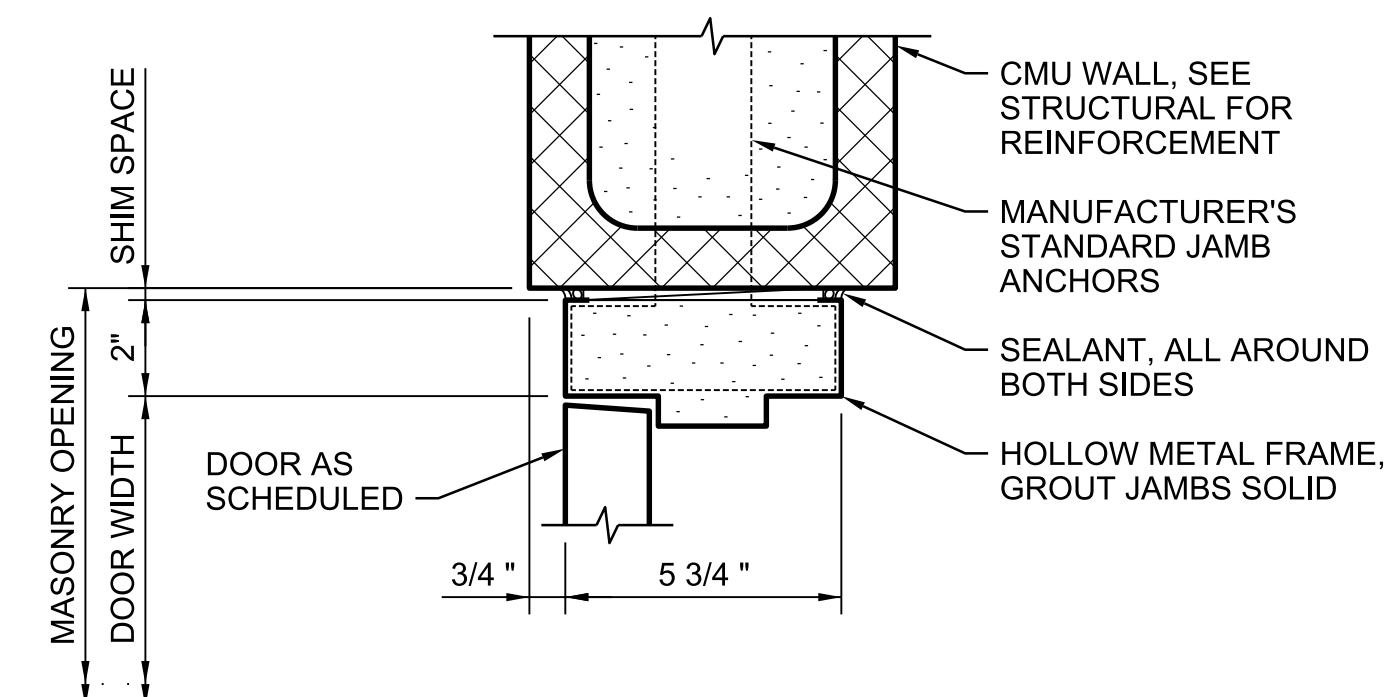
DOOR JAMB
NTS

0811-002



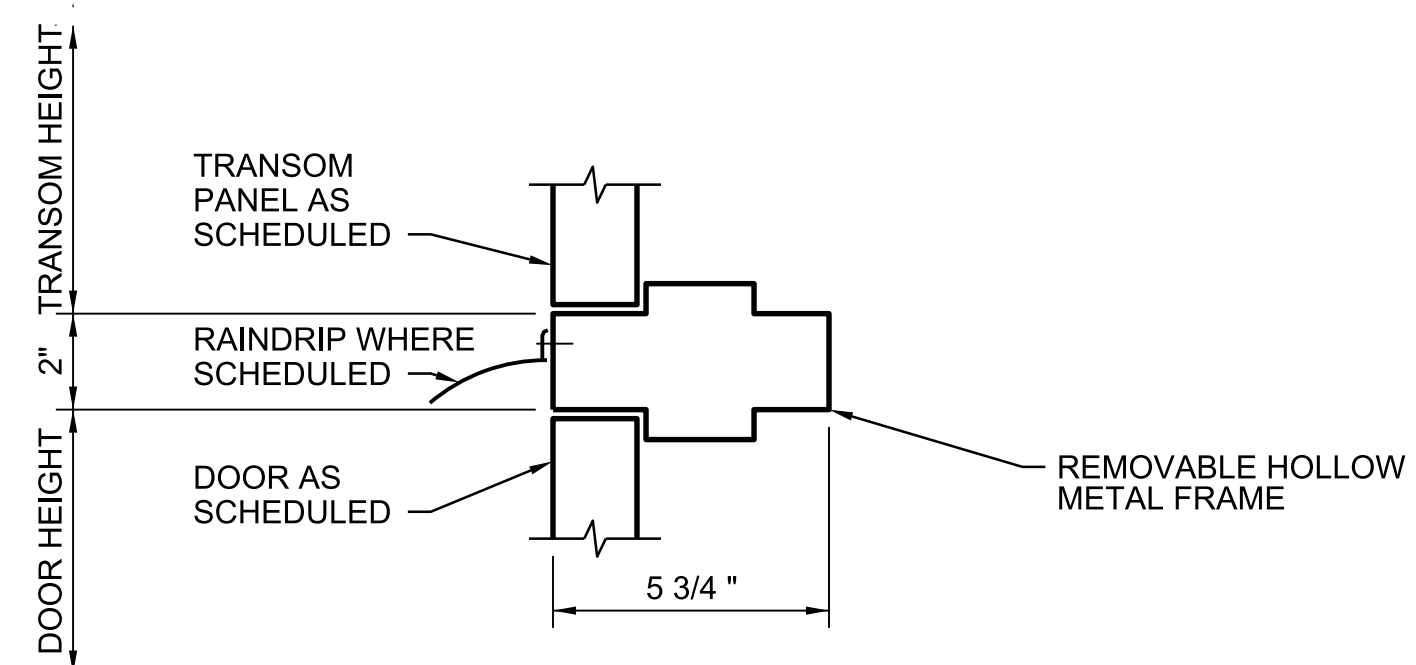
DOOR HEAD
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0811-003



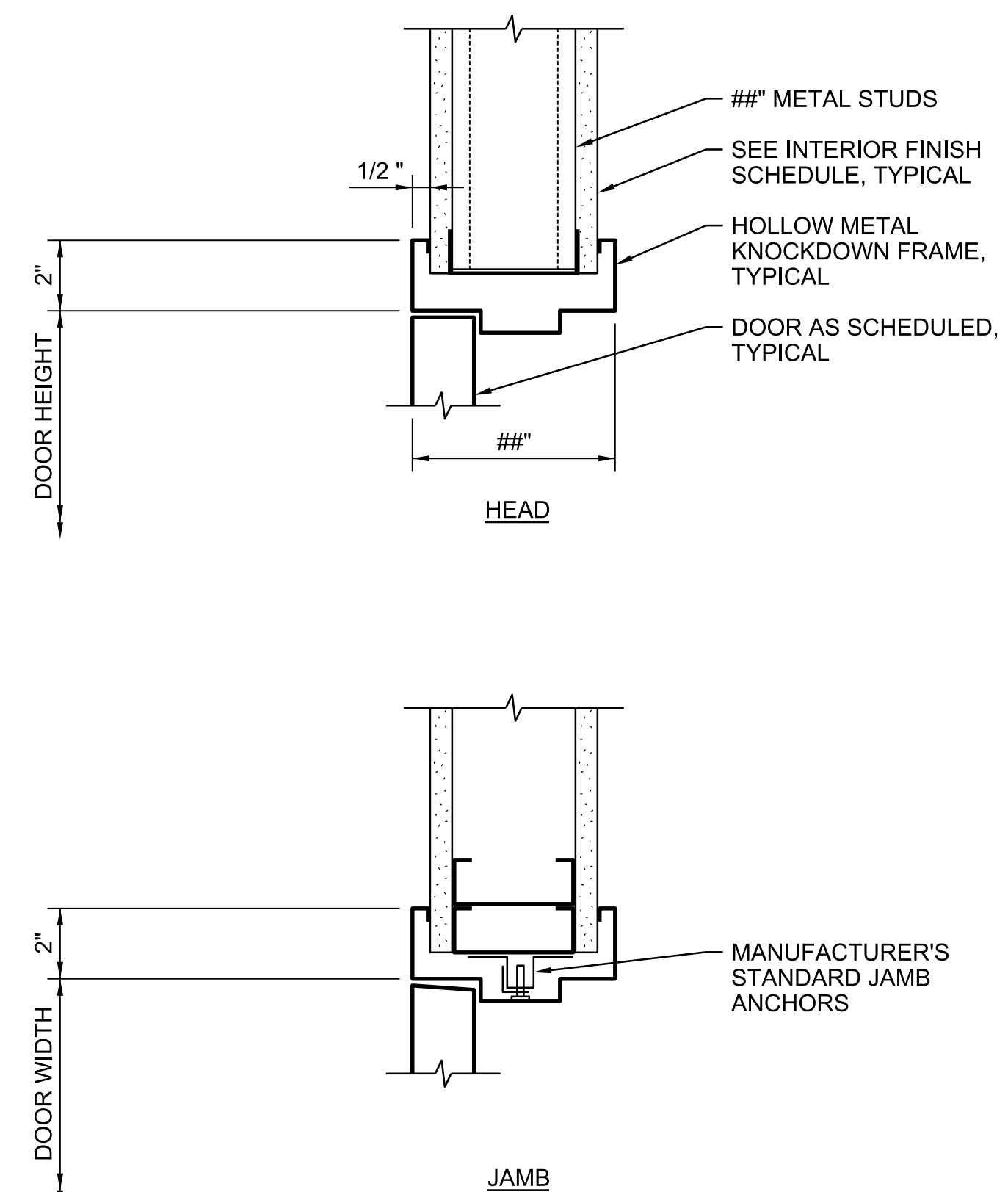
DOOR HEAD
NTS

0811-004



DOOR HEAD/ TRANSOM
NTS

0811-017



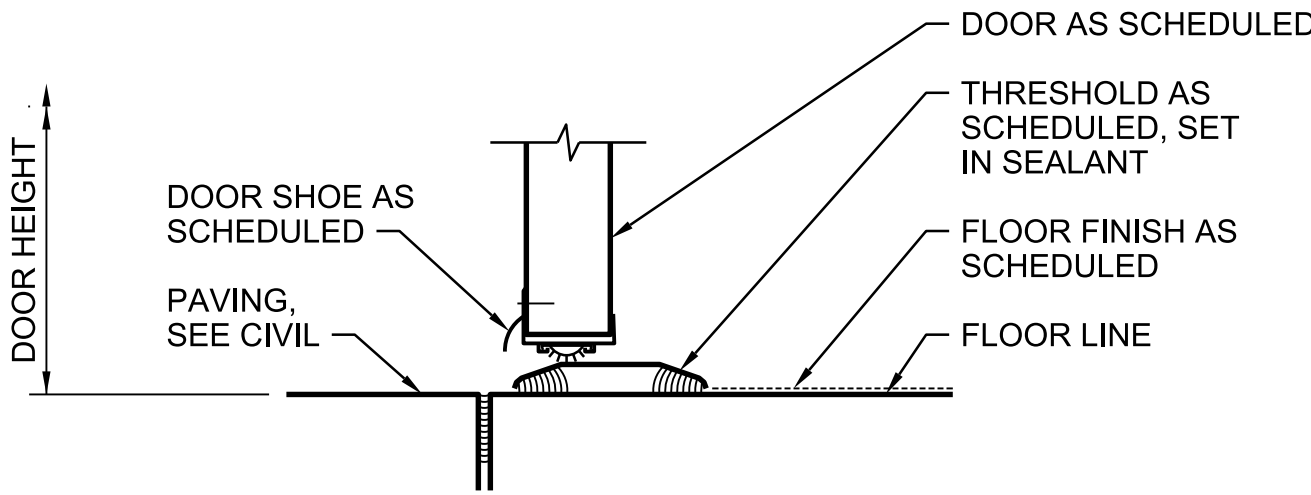
DOOR HEAD AND JAMB

0811-022

<div><div>Jacobs</div><div>ARCHITECTURAL STANDARD</div></div>										25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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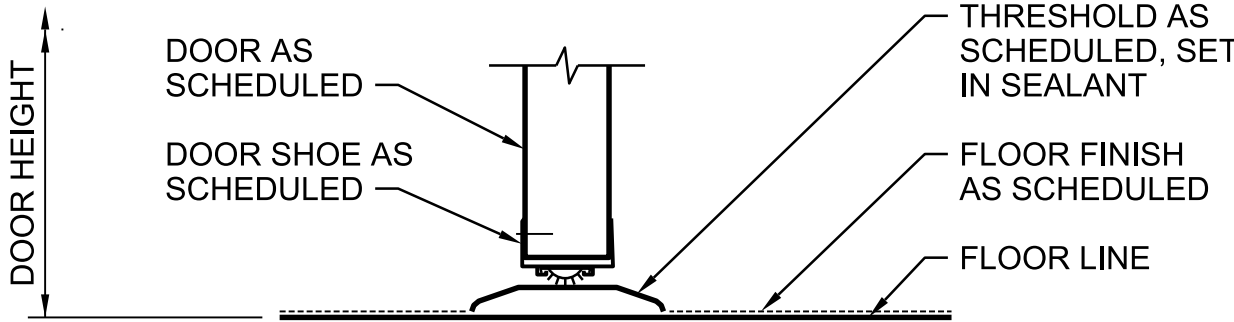
DOOR SILL
NTS

0871-001



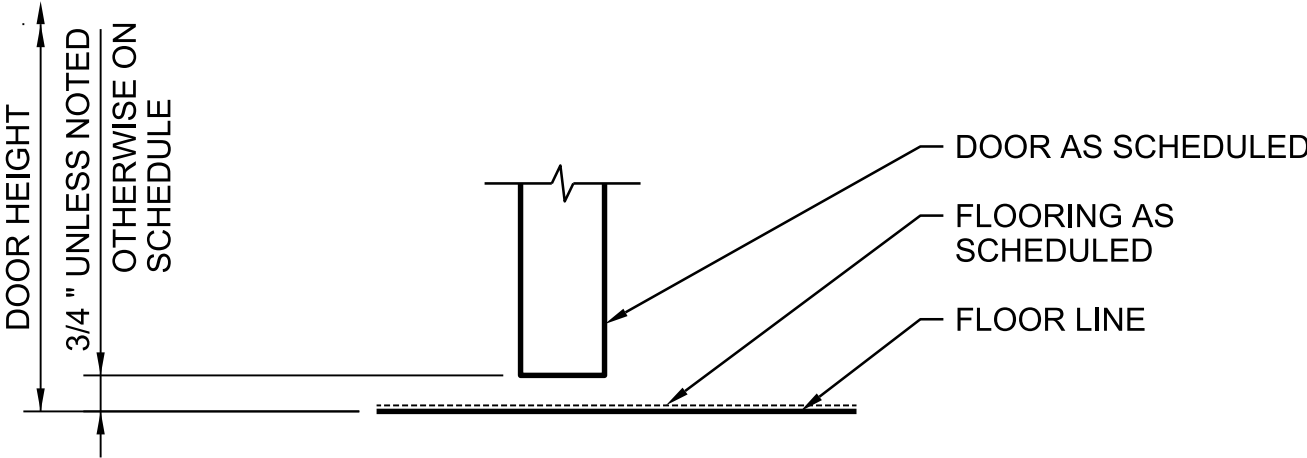
DOOR SILL
NTS

0871-002



DOOR SILL
NTS

0871-003



JACOBS

ARCHITECTURAL
STANDARD

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502
C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

NO SCALE

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE MAY 2021
PROJ D3226100
DWG 99-A-5004
SHEET 245 of 270

NO.

DATE

DR

REVISION

CHK

APVD

BY

DGN

V ROMAN-CARDONA

G OPIELKA

T DODGE

A DOLSAK

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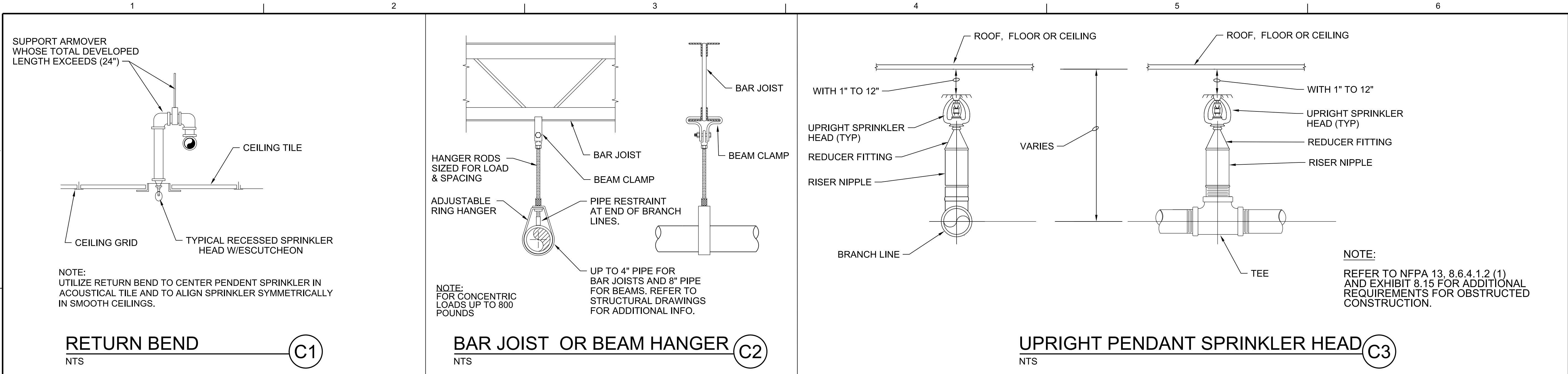
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FILENAME: 99-A-5004_D3226100.dgn

PLOT DATE: 5/27/2021

PLOT TIME: 7:27:42 AM





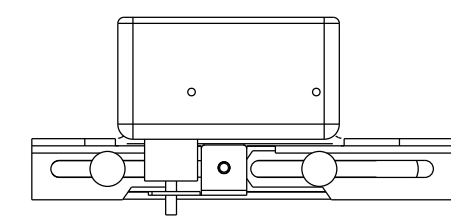
- 1 FIRE ALARM PULL STATION WITH COVER
NTS



- | | | | | |
|--|--------------------|--|--|-----------------|
| 26 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502 | C.C. WILLIAMS WWTP | DEWATERING FACILITY & OTHER IMPROVEMENTS | MOBILE AREA WATER & SEWER SYSTEM (MAWSS) | MOBILE, ALABAMA |
|--|--------------------|--|--|-----------------|

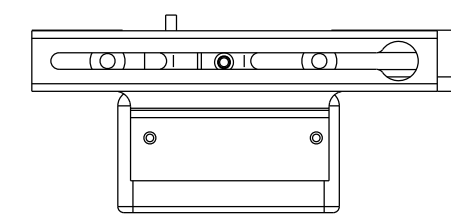
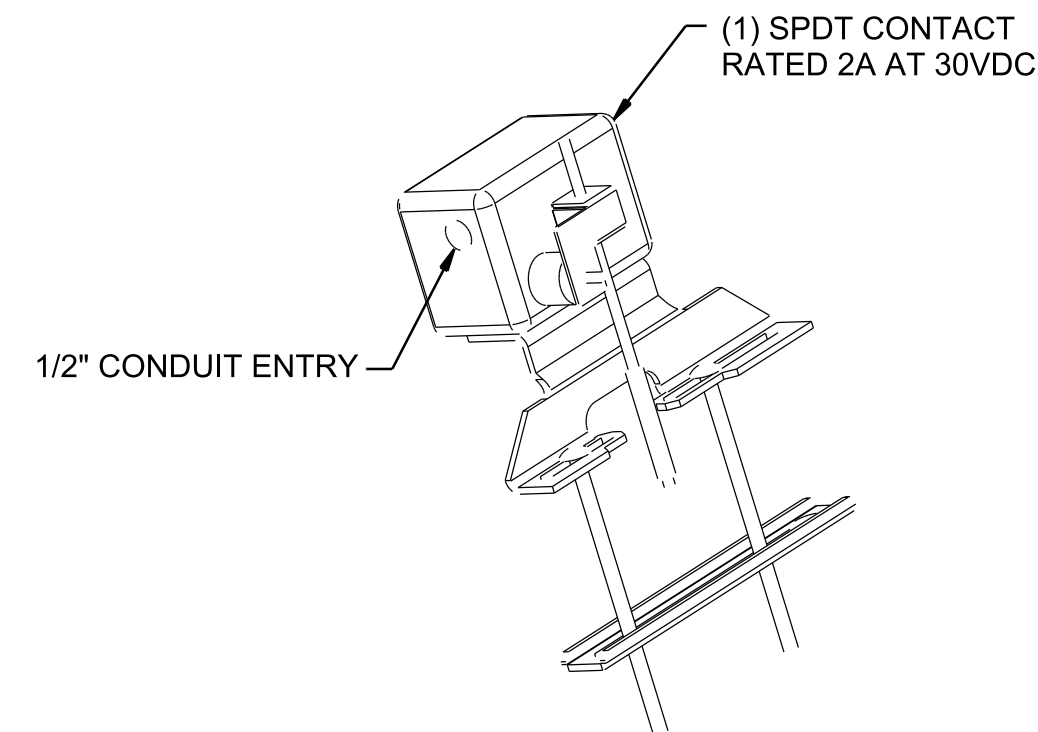
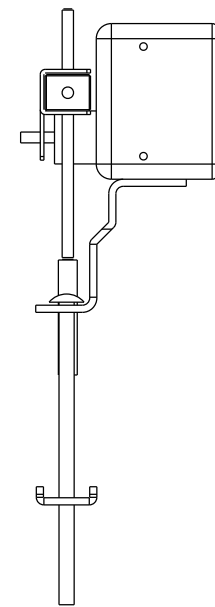
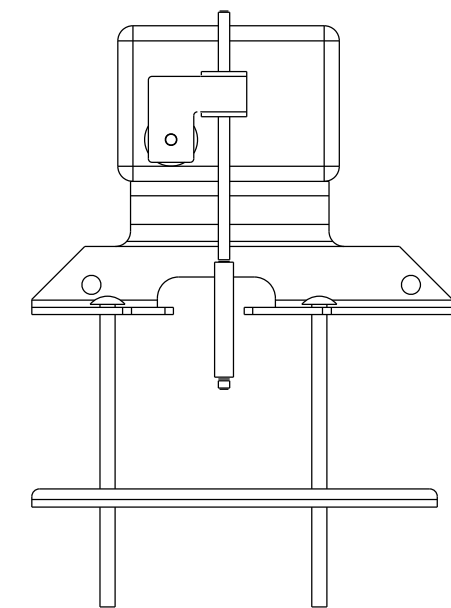
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DATE	MAY 202
PROJ	D3226100
DWG	99-FA-500
SHEET	249 of 270

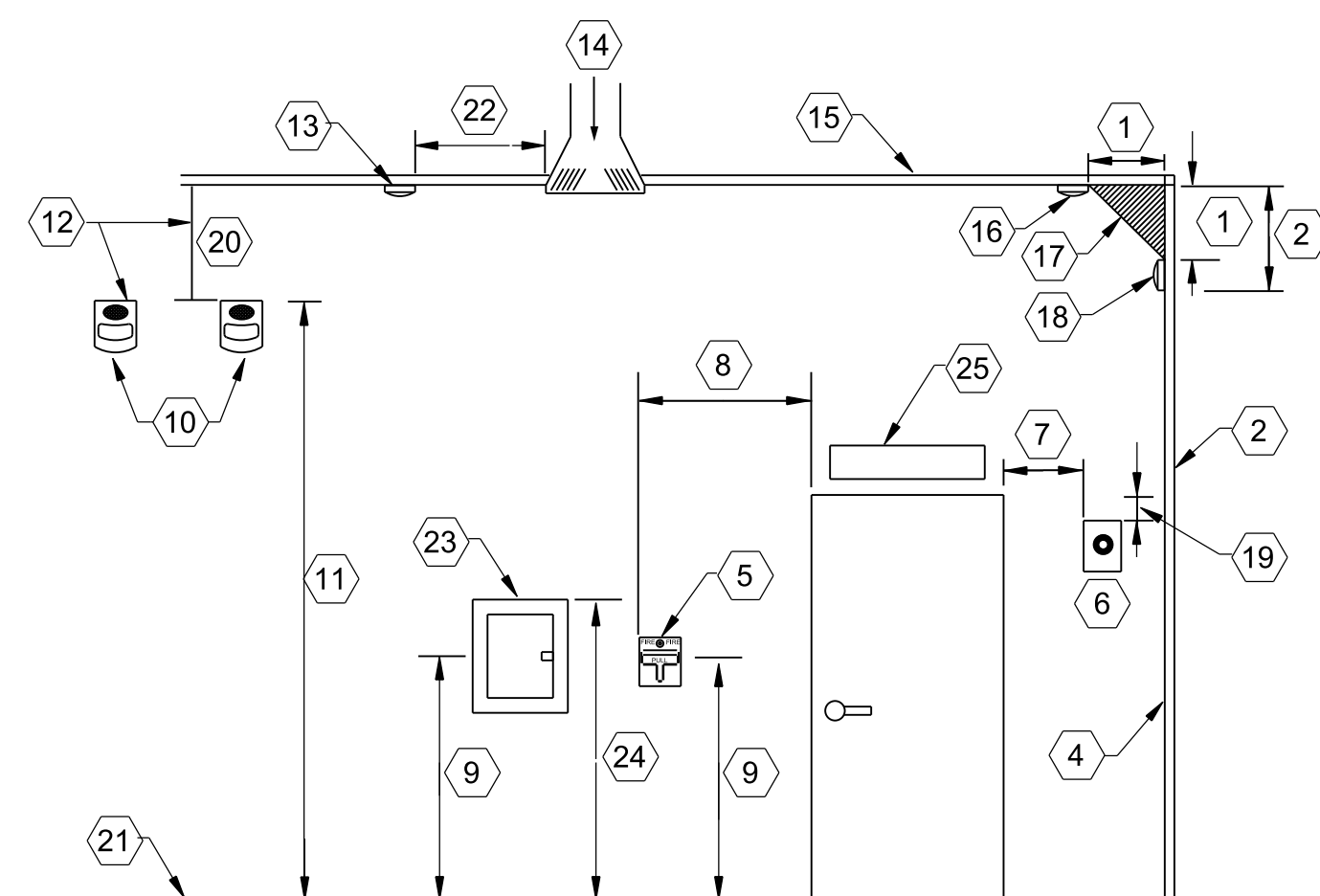


NEMA 250 TYPE 4X TAMPER SWITCH BASIS OF DESIGN:
POTTER OSYU.

NEMA 250 TYPE 7 TAMPER SWITCH, DEVICE PROVIDED BY DIVISION 21
WIRED AND PROGRAMMED BY DIVISION 28.



3 TYPICAL OS&Y VALVE SUPERVISION SWITCH



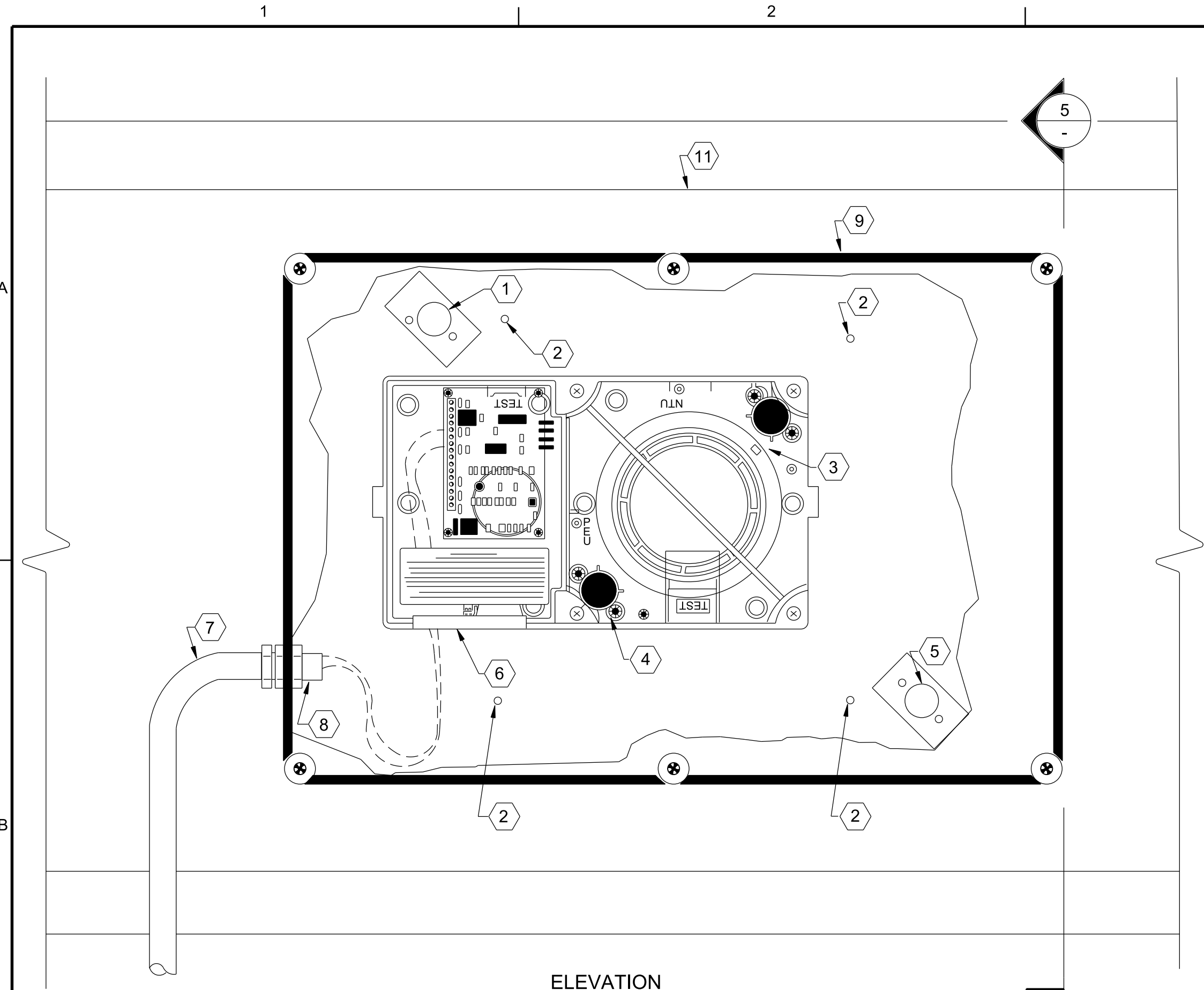
KEYNOTES

1. 4" MIN - MEASUREMENTS SHOWN ARE TO BE THE CLOSEST EDGE OF THE DETECTOR
 2. DETECTOR 12" MAX FROM CEILING
 3. SIDE WALL
 4. FINISH WALL
 5. DOUBLE ACTION MANUAL PULL STATION W/ COVER
 6. MAGNETIC DOOR HOLDER
 7. DOOR WIDTH MINUS 3"
 8. MANUAL PULL STATION MAXIMUM SPACING 60" FROM OPENING
 9. 48" MAX (ADA) NFPA 72, 2019 EDITION (SECTION 17.14.5)
 10. SYNCHRONIZE MORE THAN TWO APPLIANCES (FIRE OR MASS NOTIFICATION) IN ANY FIELD OF VIEW NFPA 72 2019 EDITION (SECTION 18.5.5.4.2)
 11. AUDIBLE 90" MIN NFPA 72, 2019 EDITION (SECTION 18.4.8.1)
 12. VISUAL 96" MAX., 80" MIN NFPA 72, 2019 EDITION (SECTION 28.5.5.1)
- IN SLEEPING AREAS MOUNT AT 2032 mm TOP OF LENS OR
<24" STROBE = 177cd
>24" STROBE = 110cd
NFPA 72, 2019 EDITION (SECTION 18.5.5.7)

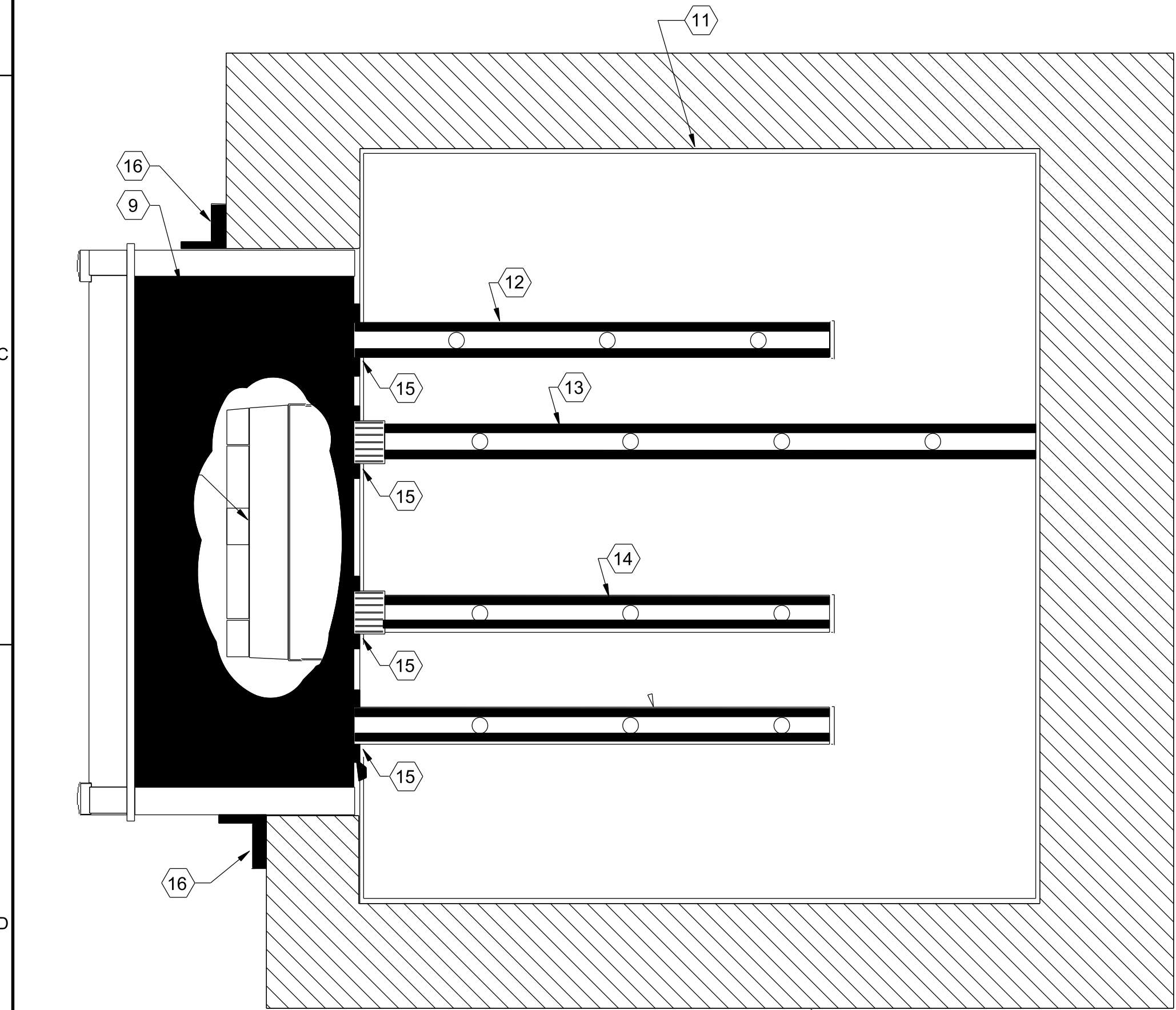
13. CEILING MOUNTED SMOKE/HEAT/CO DETECTOR
14. AC SUPPLY DIFFUSER
15. CEILING
16. SMOKE DETECTOR ACCEPTED HERE
17. SMOKE DETECTOR NEVER HERE
18. TOP OF WALL MOUNTED SMOKE/ HEAT DETECTOR. THIS PLACEMENT ALLOWED ON THIS PROJECT.
19. MAGNETIC DOOR HOLDER 6" MINIMUM FROM TOP OF DOOR
20. HORN/ SPEAKER STROBE 6" MINIMUM FROM CEILING
21. FINISH FLOOR
22. DETECTOR 36" MINIMUM FROM DIFFUSER
23. LOCAL OPERATOR CONSOLE (LOC) FOR MASS NOTIFICATION FUNCTIONS
24. 72" AFF MAX.
25. TEXT MESSAGE SIGN

4 TYPICAL DEVICE MOUNTING HEIGHT

<div><div><div>Jacobs</div><div>25 WEST CEDAR STREET, SUITE 350 PENSACOLA, FL 32502</div></div><div><div>FIRE ALARM</div><div>DETAILS</div></div></div>		C.C. WILLIAMS WWTP		DEWATERING FACILITY & OTHER IMPROVEMENTS		MOBILE AREA WATER & SEWER SYSTEM (MAWSS)		MOBILE, ALABAMA		REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JACOBS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.		CONFIRMED DOCUMENTS	
VERIFY SCALE												B PEABODY	
BAR IS ONE INCH ON ORIGINAL DRAWING.												B PEABODY	
0 1"												B PEABODY	
DATE		MAY 2021										B PEABODY	
PROJ		D3226100										B PEABODY	
DWG		99-FA-5002										B PEABODY	
SHEET		250 of 270										B PEABODY	



ELEVATION



SECTION

5 DUCT SMOKE DETECTOR
NTS

KEYNOTES

1. WEATHERPROOF HOUSING INTAKE TUBE LOCATION. (FOR WET LOCATION ONLY)
2. MOUNTNG HOLES, FOUR PLACES.
3. SENSOR HOUSING INTAKE TUBE LOCATION.
4. SENSOR HOUSING EXHAUST TUBE LOCATION
5. WEATHERPROOF HOUSING EXHAUST TUBE LOCATION.
6. WIRING ENTRANCE AREA.
7. USE FLEXIBLE CONDUIT WITH WEATHERPROOF FITTINGS.
8. SEAL CONDUIT ENTRANCE WITH 3M WEATHERBAN SEALANT #606 OR EQUAL (NOT SUPPLIED).
9. DUCT HOUSING. (WEATHERPROOF WHERE REQUIRED).
10. DUCT SENSOR HOUSING WITH SENSOR.
11. DUCT OUTLINE, SHOWN FOR REFERENCE.
12. ENCLOSURE AIR INTAKE TUBE. (WEATHERPROOF WHERE REQUIRED).
13. SENSOR HOUSING SAMPLING TUBE, DUCTS OVER 58CM THE SAMPLING PIPE SHALL EXTEND THRU DUCT FOR SUPPORT. SEAL AROUND PENETRATION.
14. SENSOR HOUSING EXHAUST TUBE.
15. GASKETS AT EACH HOUSING ENTRY POINT.
16. SEAL INSULATION AT DETECTOR.
17. DUCT INSULATION.

PRODUCT INFORMATION

FEATURES:

UL LISTED
MOUNTING: FLUSH
FINISH: CHROME OR STAINLESS STEEL

SPECIFICATIONS:

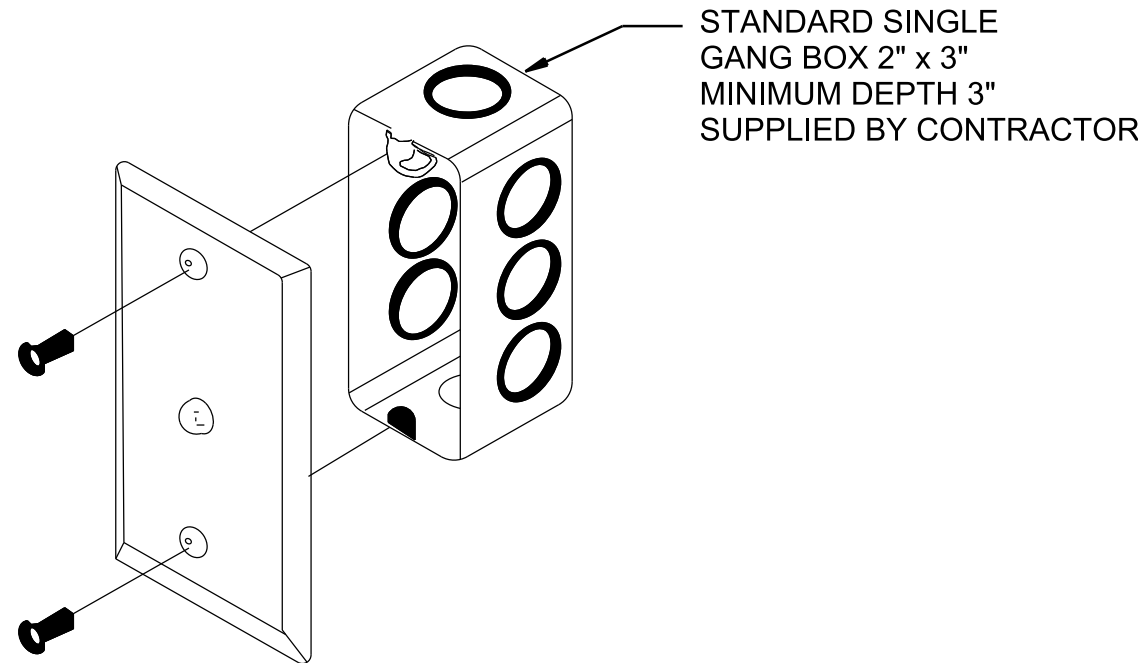
ALARM CURRENT: 2.8 Ma
DIMENSIONS OF BOX: 2" W x 3" H x 2" D

DESCRIPTION:

REMOTE GREEN ALARM LED STATUS INDICATOR
ACTIVATED SWITCH MOUNTED ON A SINGLE GANG
STAINLESS STEEL PLATE. THE LED WILL PULSE TO
INDICATE NORMAL OPERATION OF THE DUCT DETECTOR
AND WILL ENERGIZE CONTINUOUS WHEN IN ALARM OR IN
TROUBLE. (THE EXACT STATUS OF THE SENSOR WILL BE
DISPLAYED AT THE FIRE ALARM CONTROL PANEL).

WIRING:

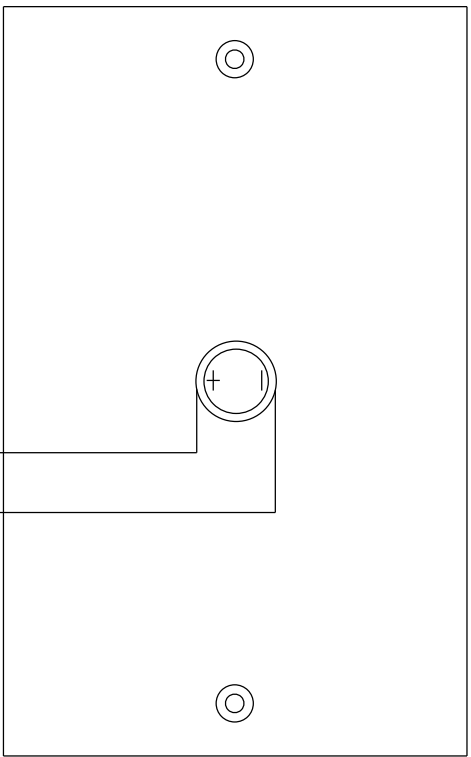
MINIMUM 18 AWG OR TO LOCAL CODE.
CONDUCTORS MUST TEST FREE OF ALL GROUNDS.
REMOTE ALARM LED IS POLARIZED, OBSERVE COLOR
CODED WIRING.
ONE INDICATOR MAY BE INSTALLED PER DETECTOR.



FLUSH MOUNTING

CONNECT TO REMOTE
ALARM LED OUTPUT OF
APPROPRIATE INITIATING
DEVICES

RED (+)
BLACK (-)



BACK VIEW

6 REMOTE ALARM KEY SWITCH
NTS

Jacobs

FIRE ALARM
DETAILS

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

NO. DATE
DGN

J PEUSER
DR

B ALEXANDER
CHK

B PEABODY
APVD

B PEABODY
APVD

DATE MAY 2021
PROJ D3226100
DWG 99-FA-5003
SHEET 251 of 270

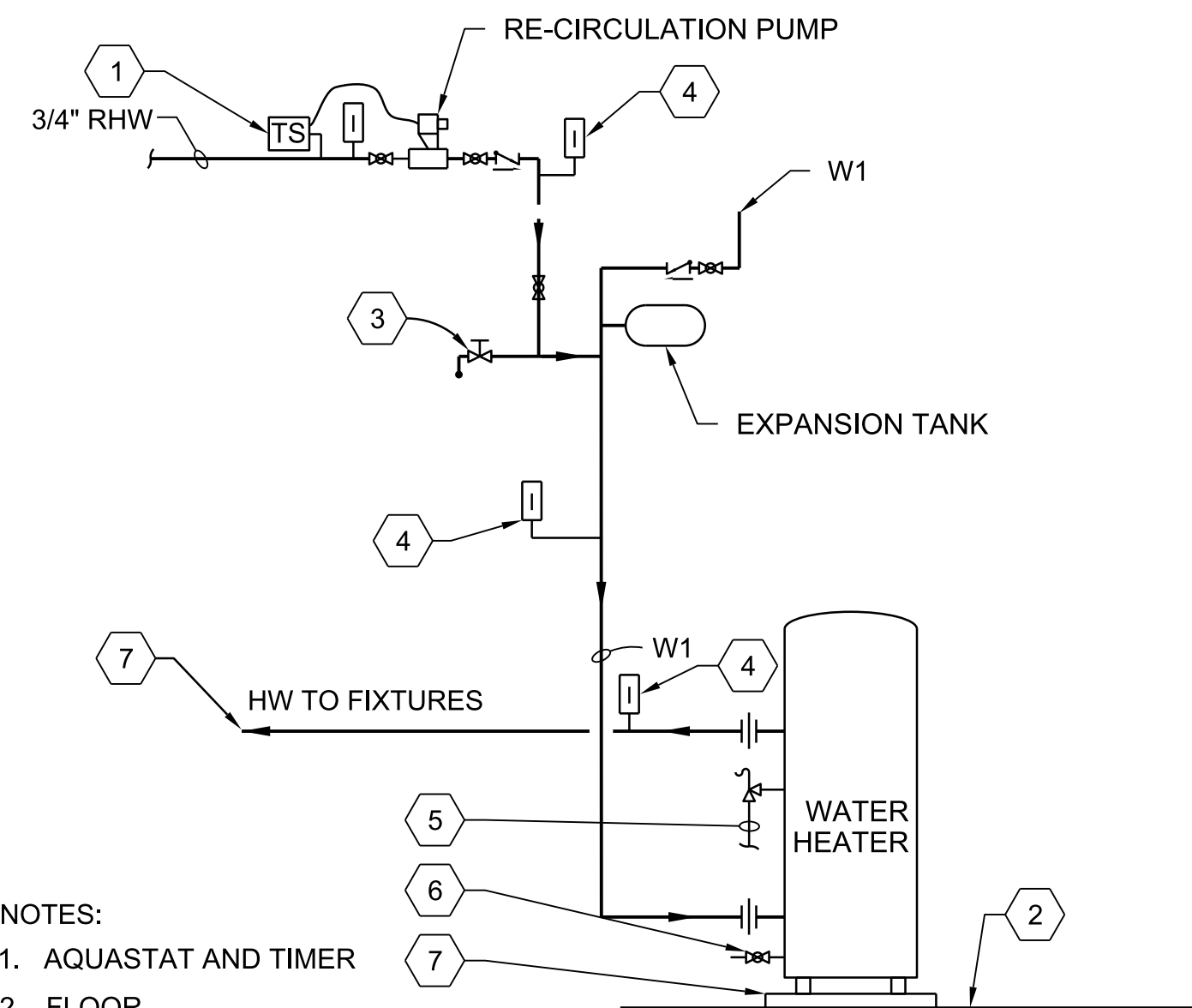
VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE MAY 2021
PROJ D3226100
DWG 99-FA-5003
SHEET 251 of 270

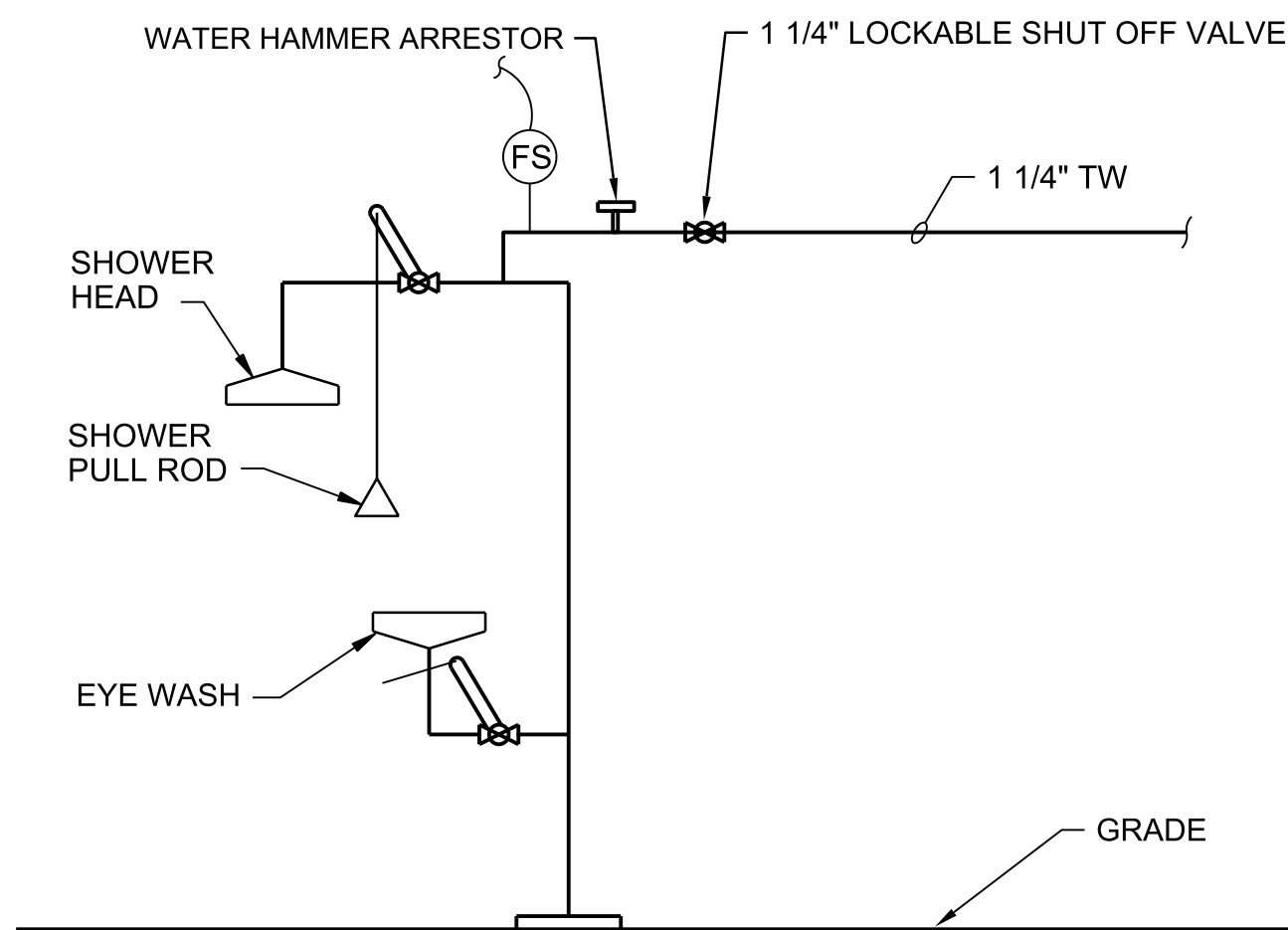
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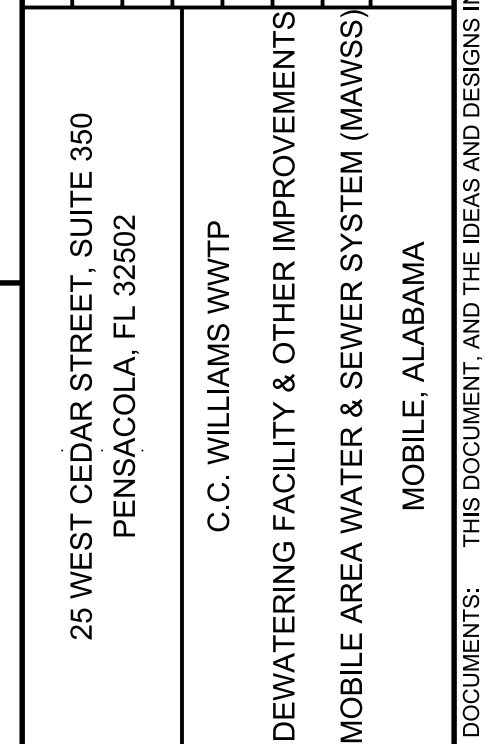
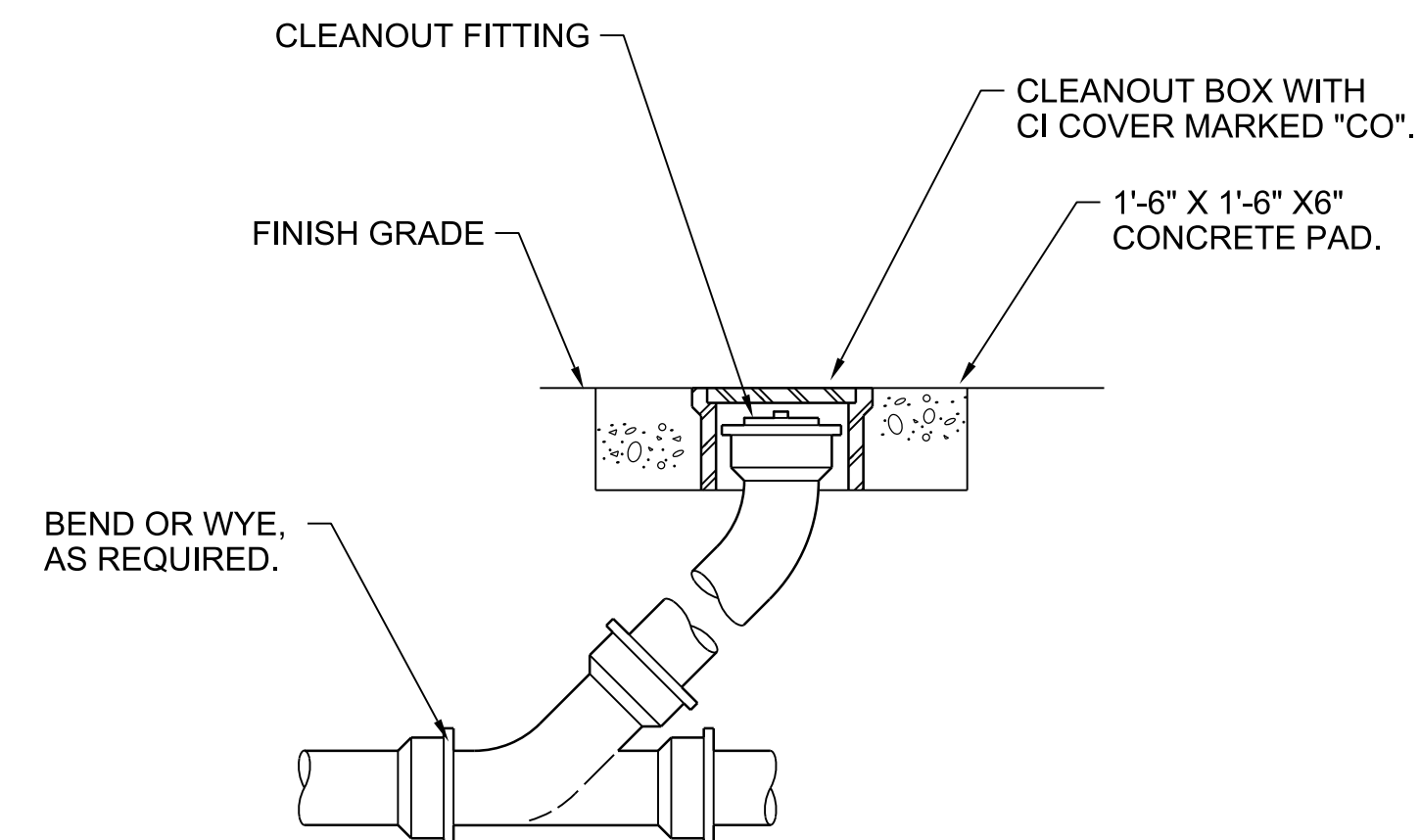
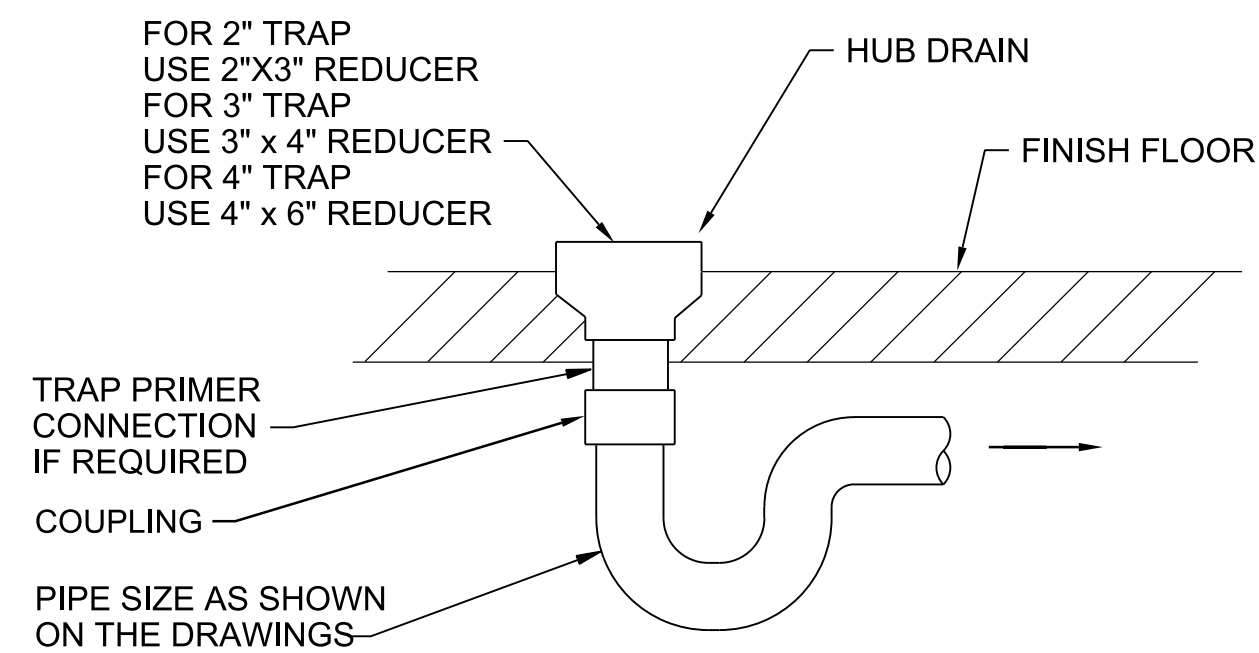



- NOTES:
1. AQUASTAT AND TIMER
 2. FLOOR
 3. HOSE BIBB TO BLEED AIR
 4. 1/2" LCD DISPLAY THERMOMETER.
 5. PIPE PTRV TO HUB DRAIN
 6. DRAIN VALVE
 7. HOUSEKEEPING PAD AND DRAIN PAN
 8. TO FIXTURES

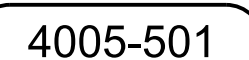
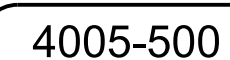
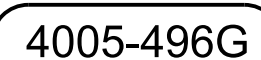
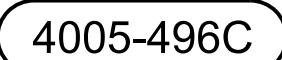
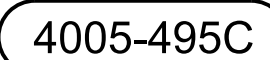
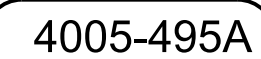
WATER HEATER - ELECTRIC



- NOTES:**
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 2. INSTALL IN ACCORDANCE WITH ISEA Z358.1.



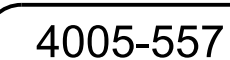
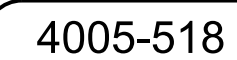
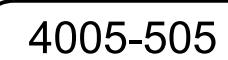
NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1"	
DATE	MAY 2021
PROJ	D3226100
DWG	99-P-5003
SHEET	254 of 270

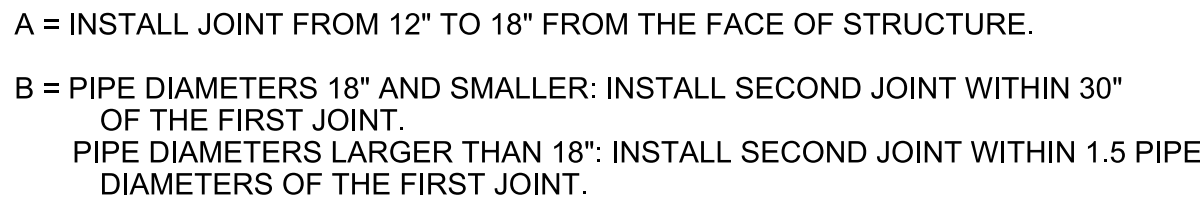


1 0 1 CONFORMED DOCUMENTS



- 4005-503



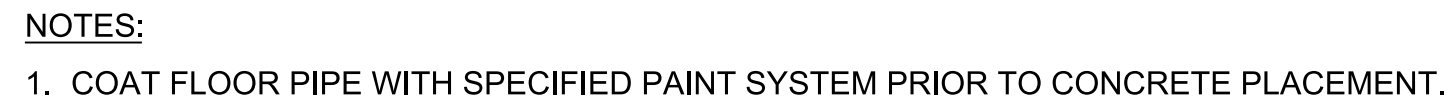


1. DO NOT ALLOW WALL PIPE OR THRUST COLLAR TO COME INTO CONTACT WITH REINFORCING STEEL.
2. COAT WALL PIPE WITH SPECIFIED PAINT SYSTEM PRIOR TO CONCRETE PLACEMENT.

4027-601



4027-620

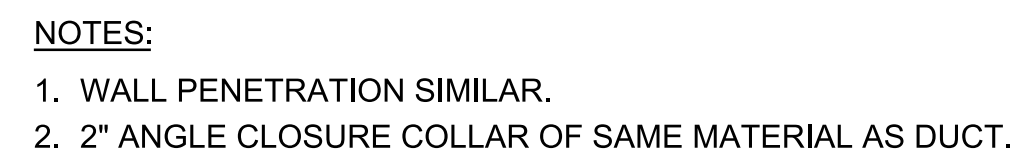


4027-622

CONFIRMED DOCUMENTS



2214-100



FLOOR PENETRATION - DRY AREA

2305-412



2305-803



NOTES:

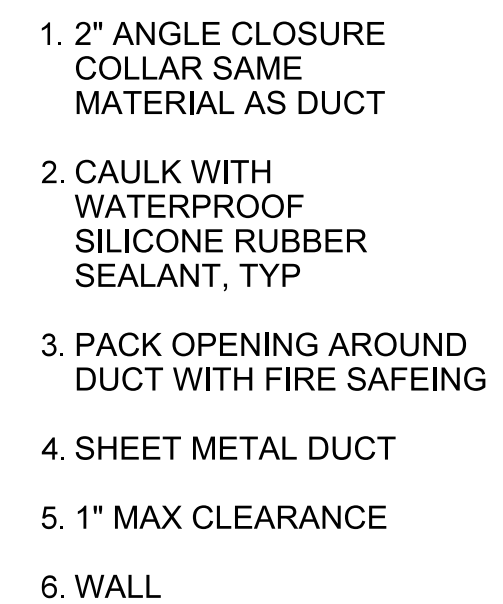
1. DO NOT USE POWDER POWERED FASTENING SYSTEMS TO ATTACH SUPPORTS TO STRUCTURE.
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT, INSULATION, OR CAUSE DUCT SHAPE DEFORMATION.
3. HANGER SIZES SHALL BE IN ACCORDANCE WITH SMACNA, LATEST EDITION.

DUCTWORK SUPPORT

2305-804



2321-422



DUCT WALL PENETRATION

2331-101

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP	DEWATERING FACILITY & OTHER IMPROVEMENTS
	MOBILE AREA WATER & SEWER SYSTEM (MAWSS)
MOBILE, ALABAMA	

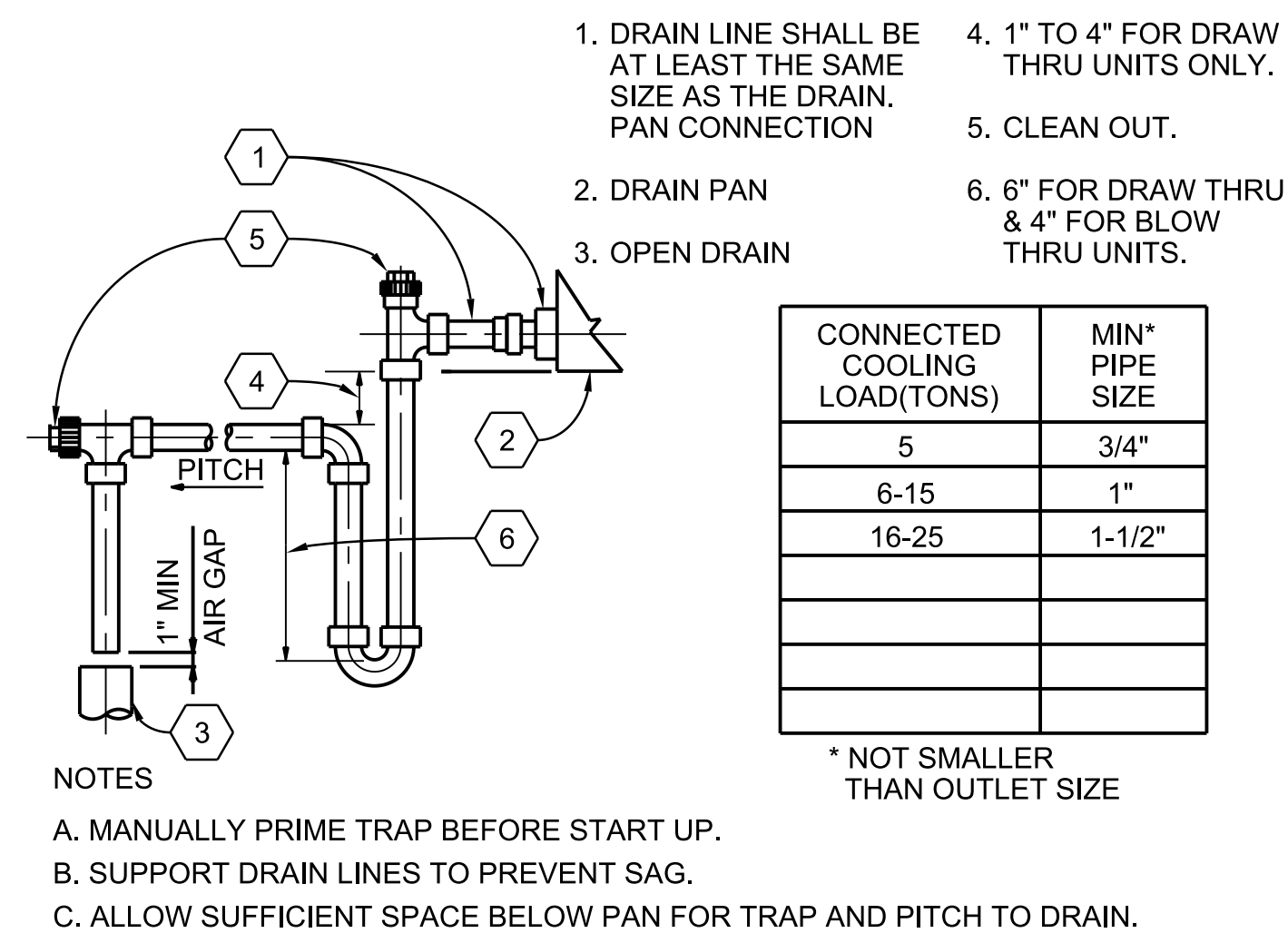
Jacobs.

MECHANICAL
STANDARD
DETAILS

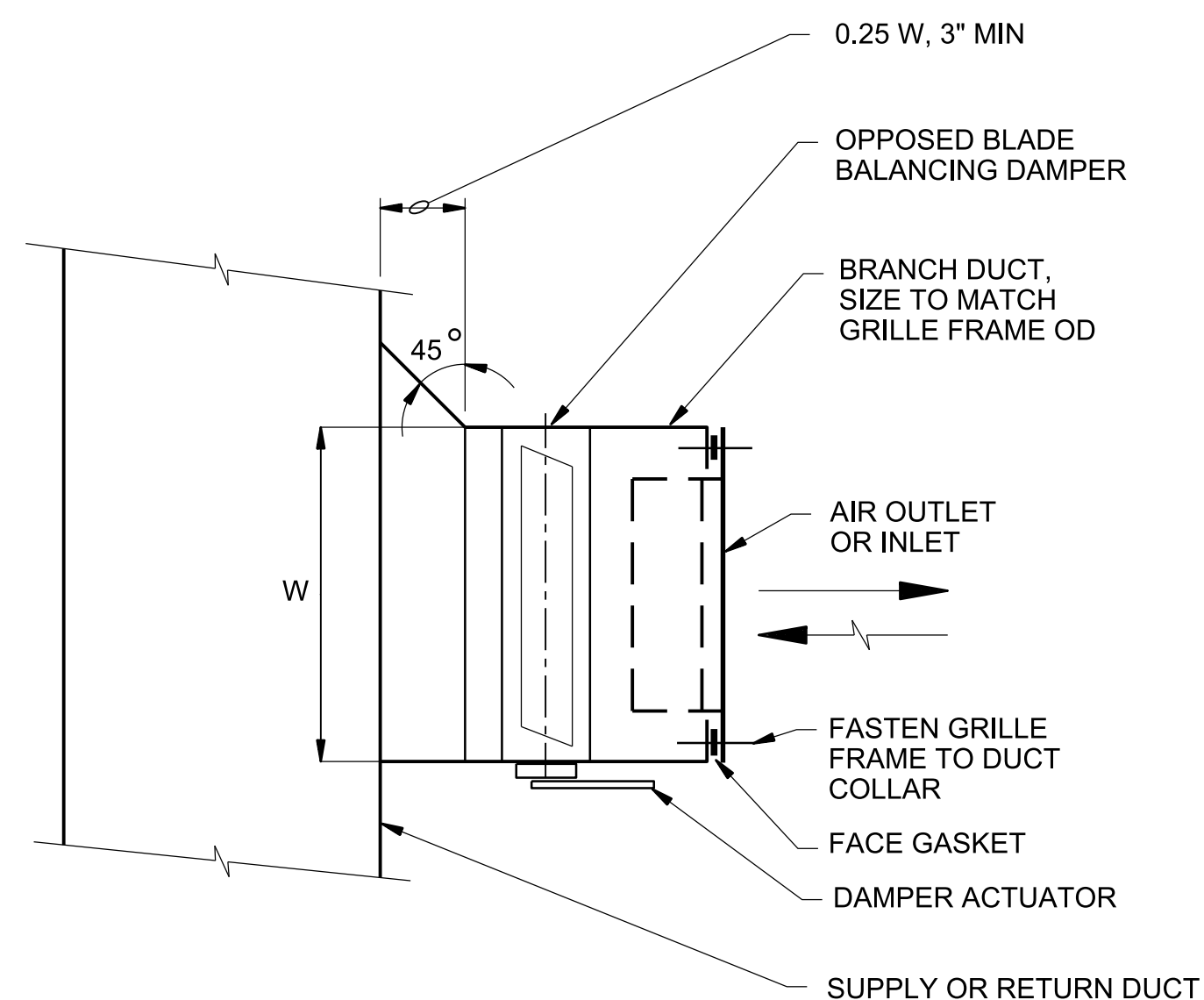
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VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	MAY 2021
PROJ	D3226100
DWG	99-M-5001
SHEET	258 of 270

CONFIRMED DOCUMENTS

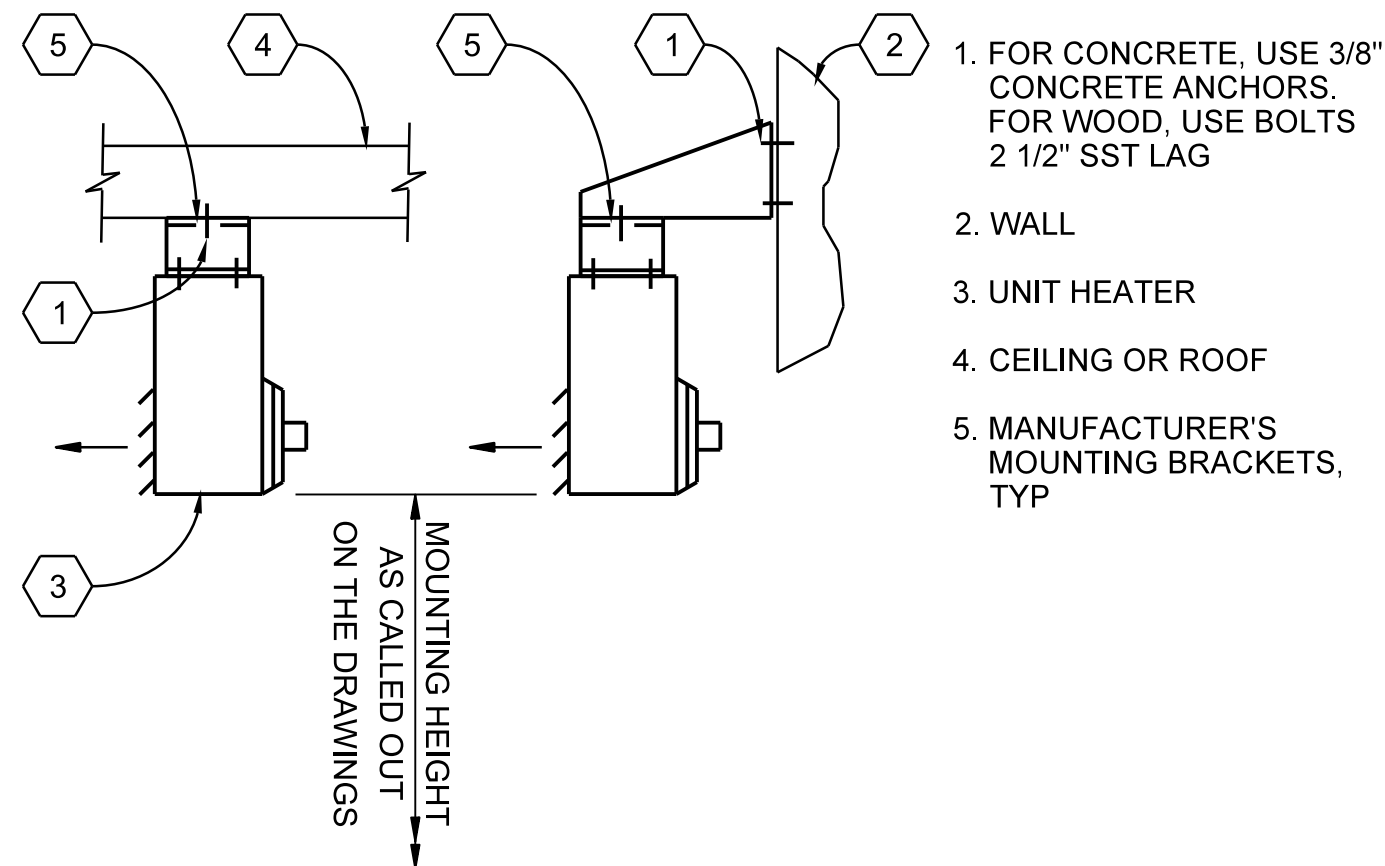
PRICE	FITZGERALD	A VALIENTE
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CONDENSATE DRAIN TRAP (TYP)
NTS



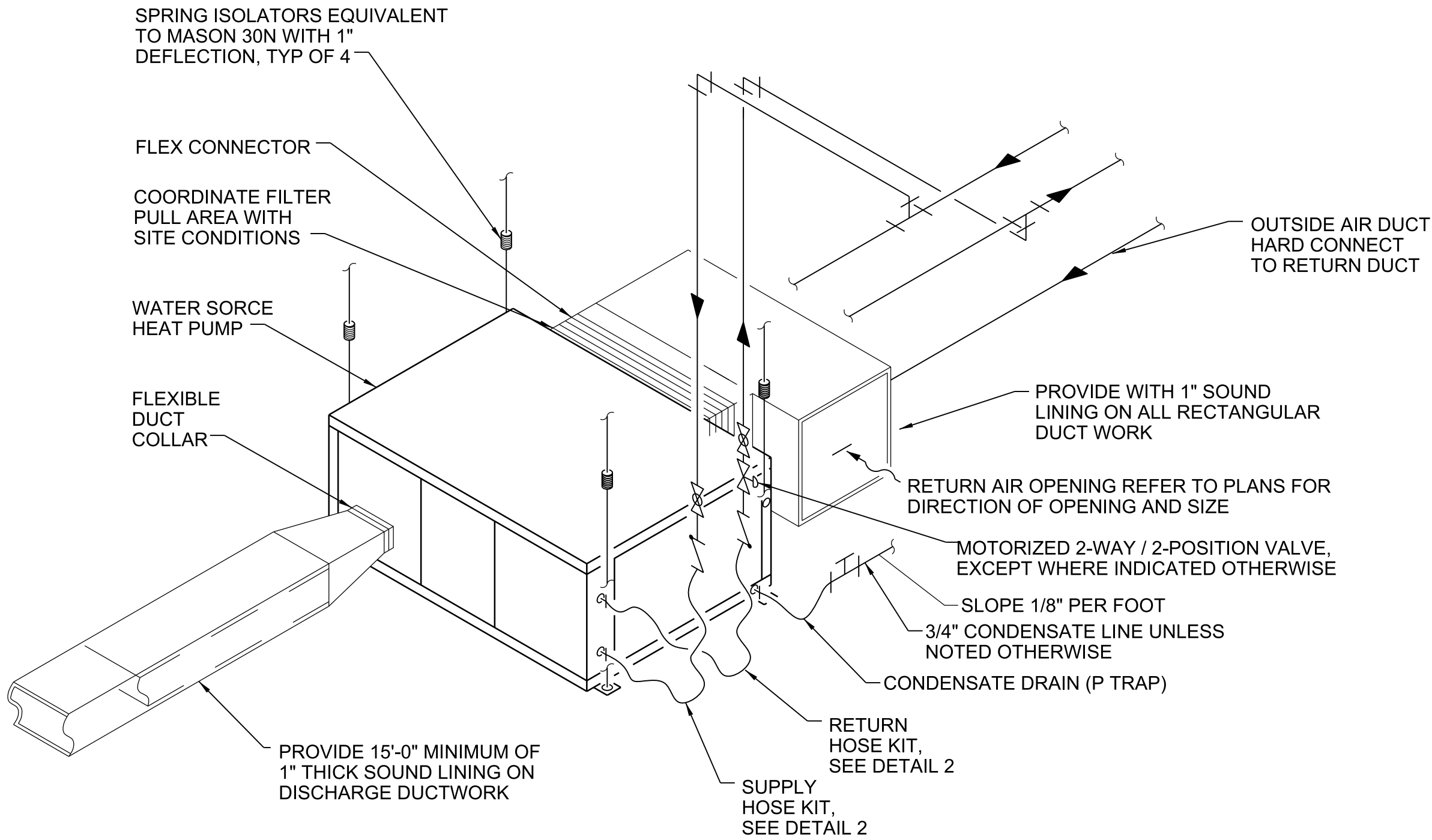
DUCT MOUNTED AIR OUTLET OR INLET



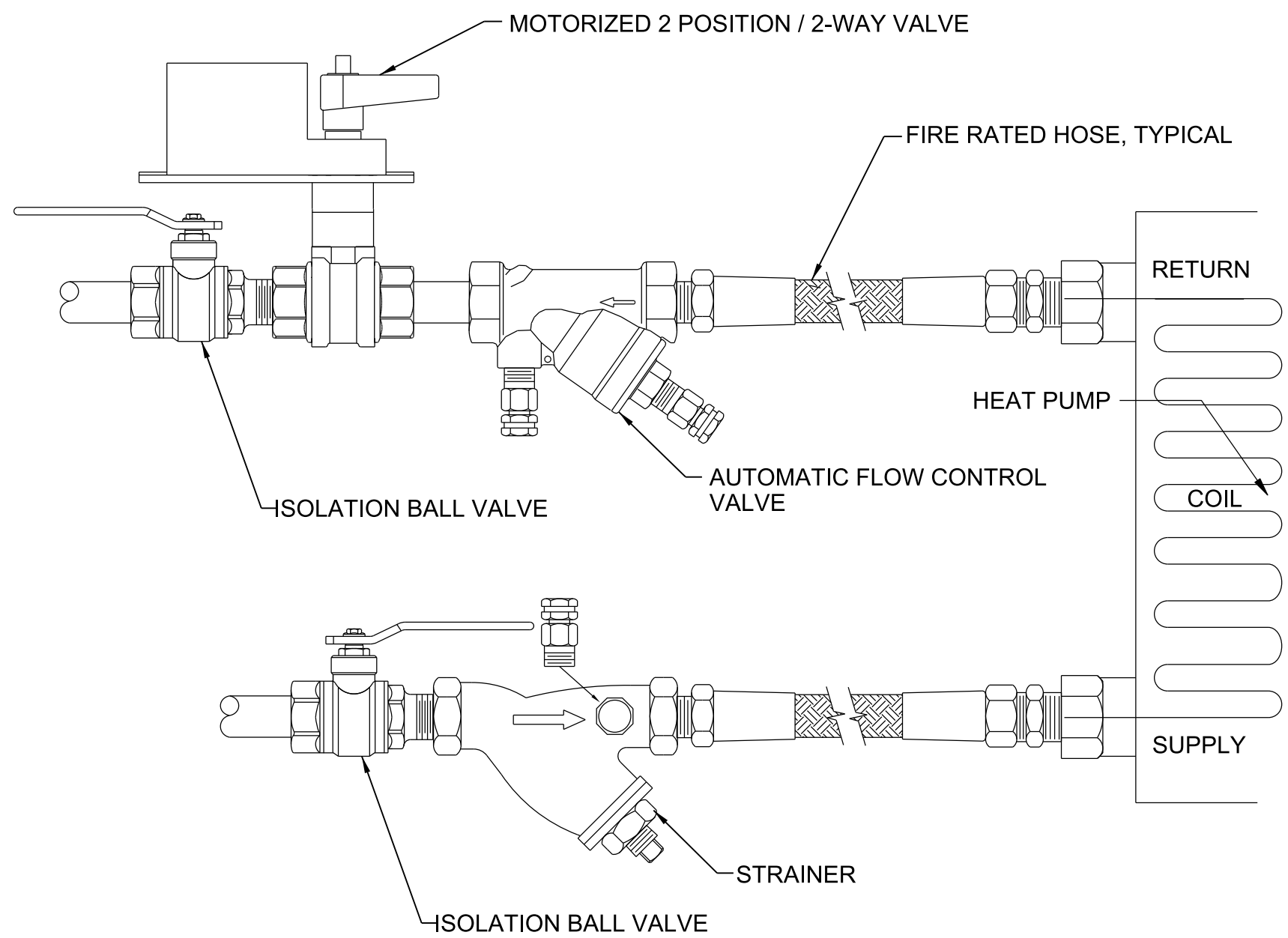
NOTE
A. USE THREADED HANGER RODS ONLY WHERE MANUFACTURER'S MOUNTING BRACKETS ARE NOT PRACTICAL.

UNIT HEATER MOUNTING
NTS

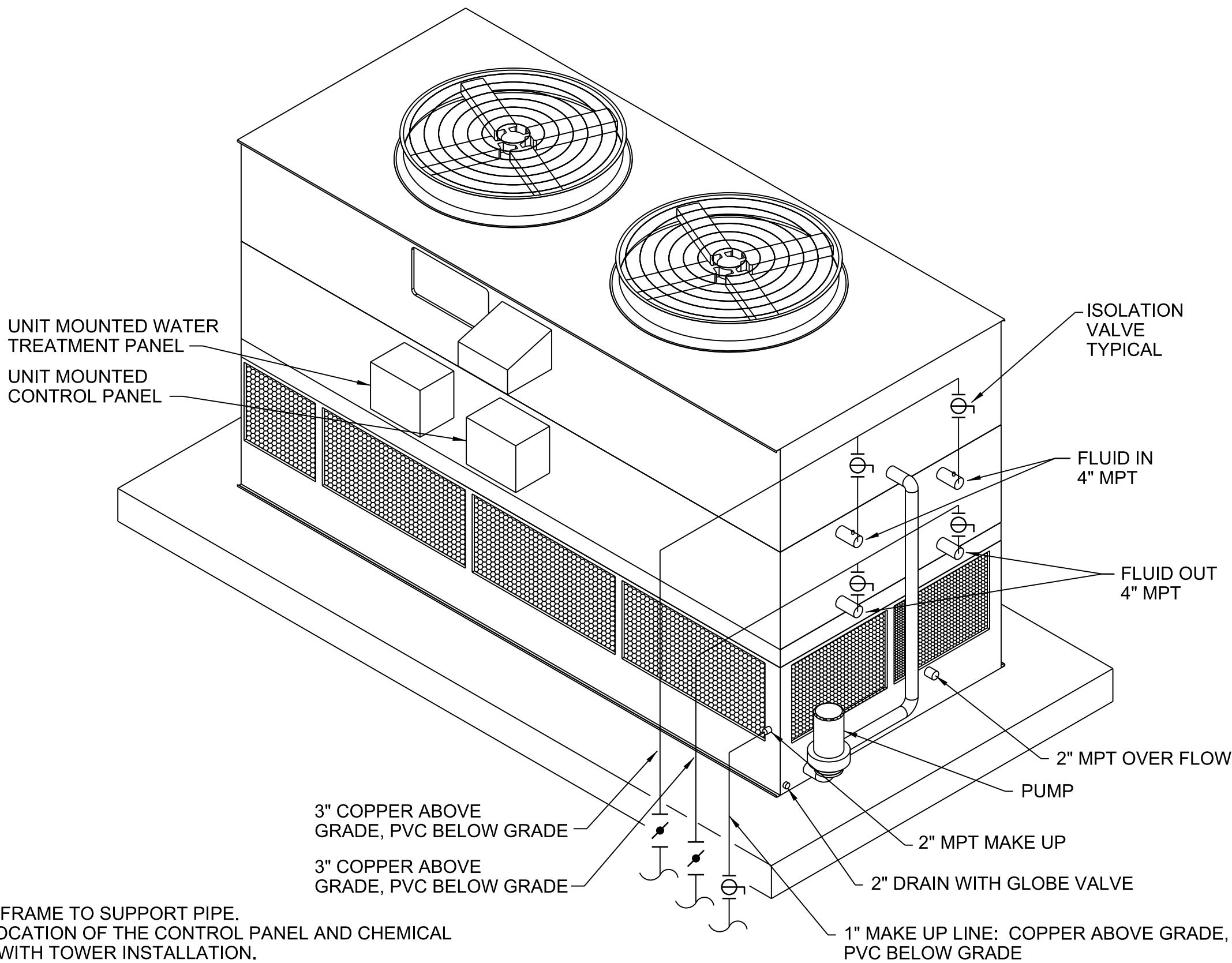
2381-101



1 HEAT PUMP DETAIL
NOT TO SCALE



2 HOSE KIT DETAIL
NOT TO SCALE
NOTE:
1. SIMILAR TO A GRISWALD HOSE KIT WITH A 4-57 PSID CARTRIDGE.



NOTES:
1. PROVIDE UNISTRUT FRAME TO SUPPORT PIPE.
2. COORDINATE THE LOCATION OF THE CONTROL PANEL AND CHEMICAL TREATMENT PANEL WITH TOWER INSTALLATION.

3 CLOSED CIRCUIT COOLING TOWER
NOT TO SCALE

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)
MOBILE, ALABAMA

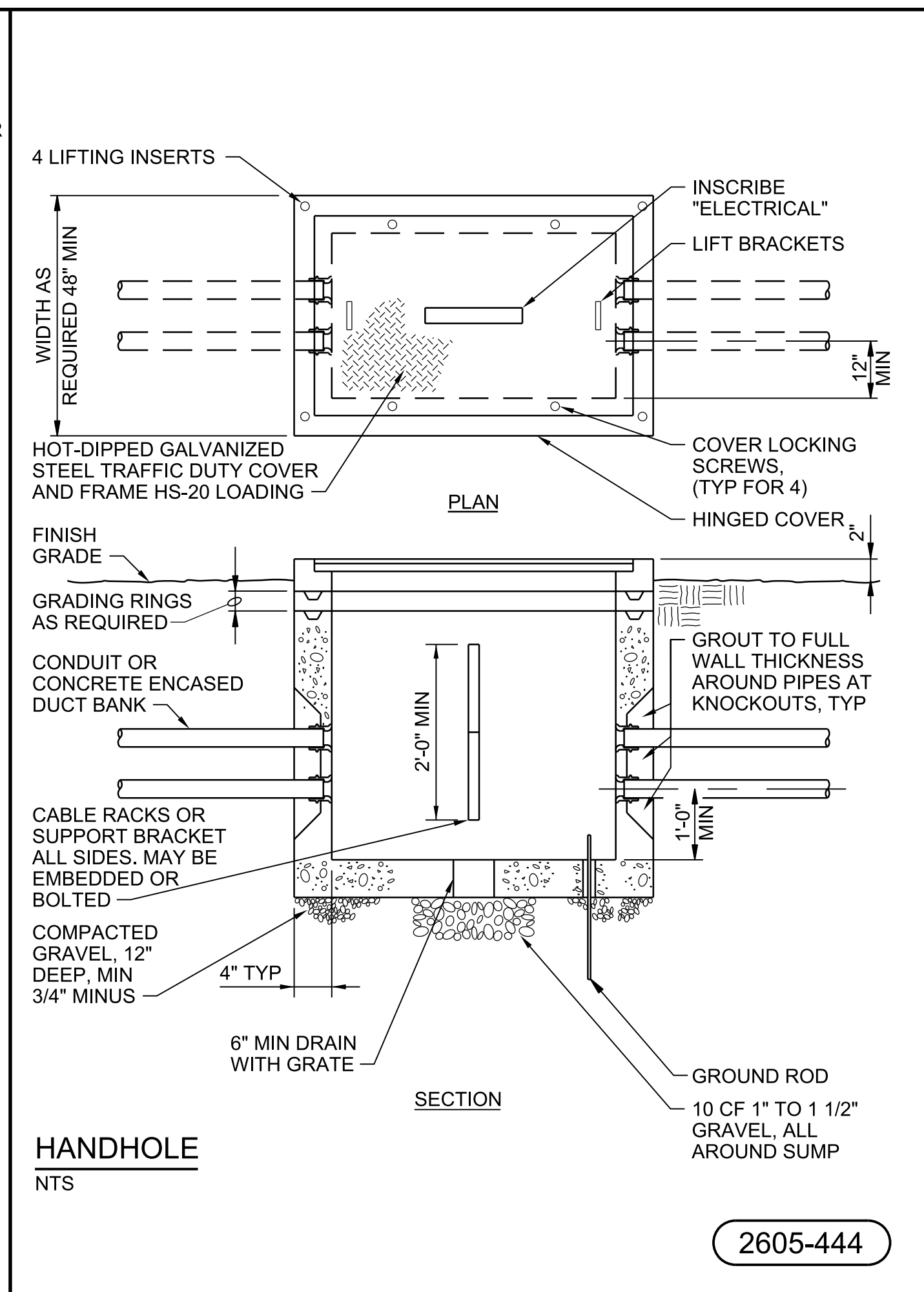
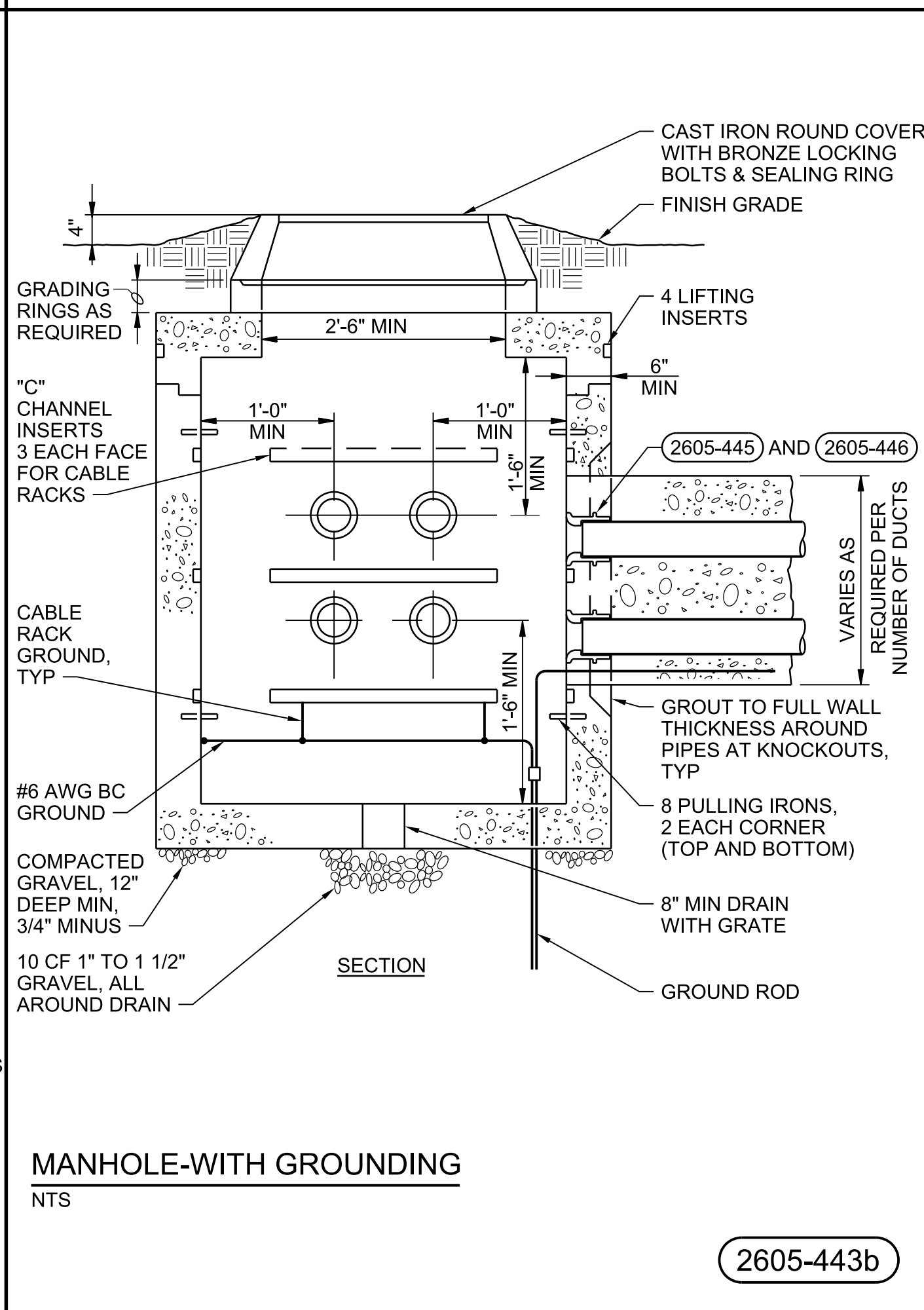
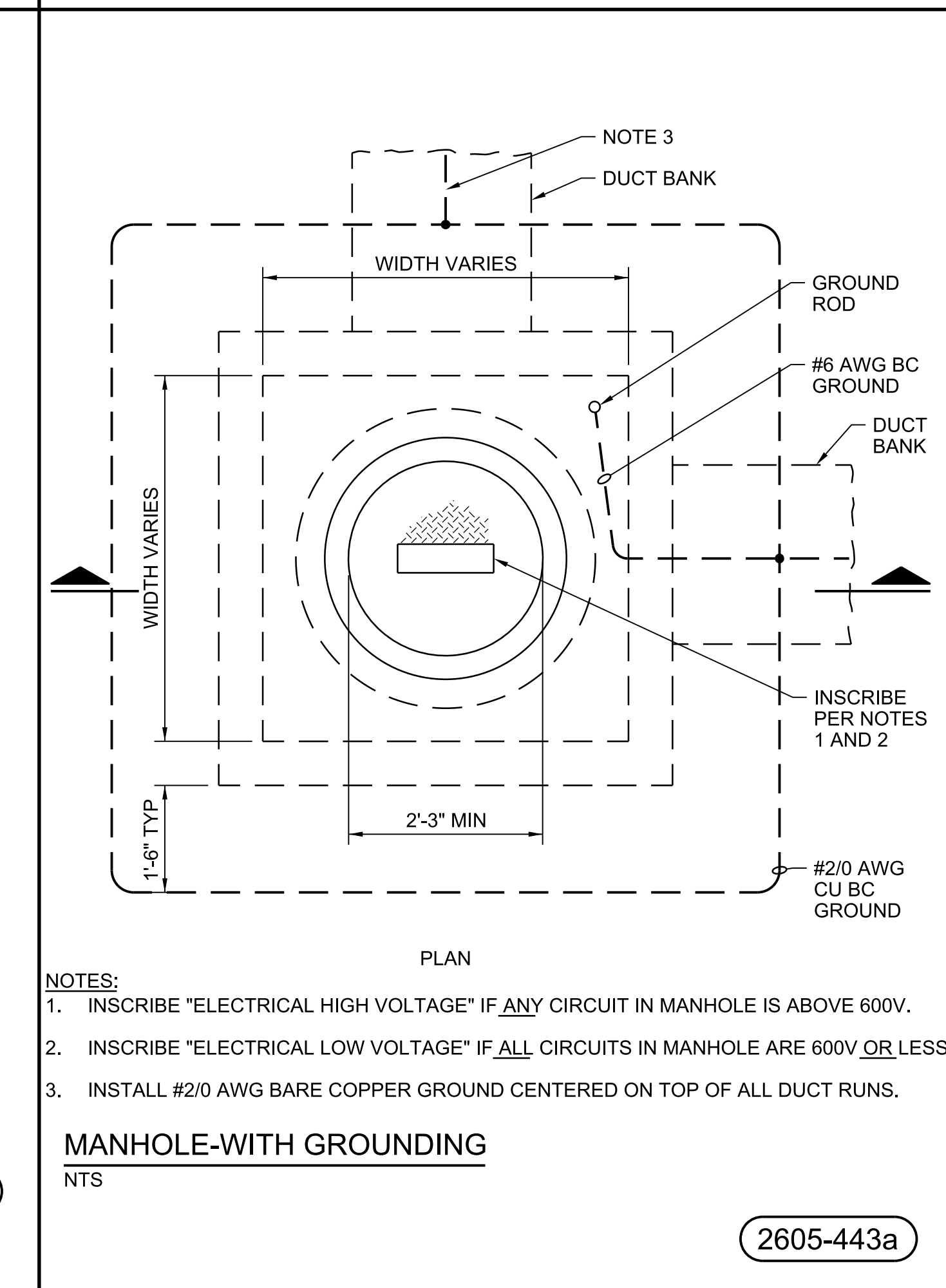
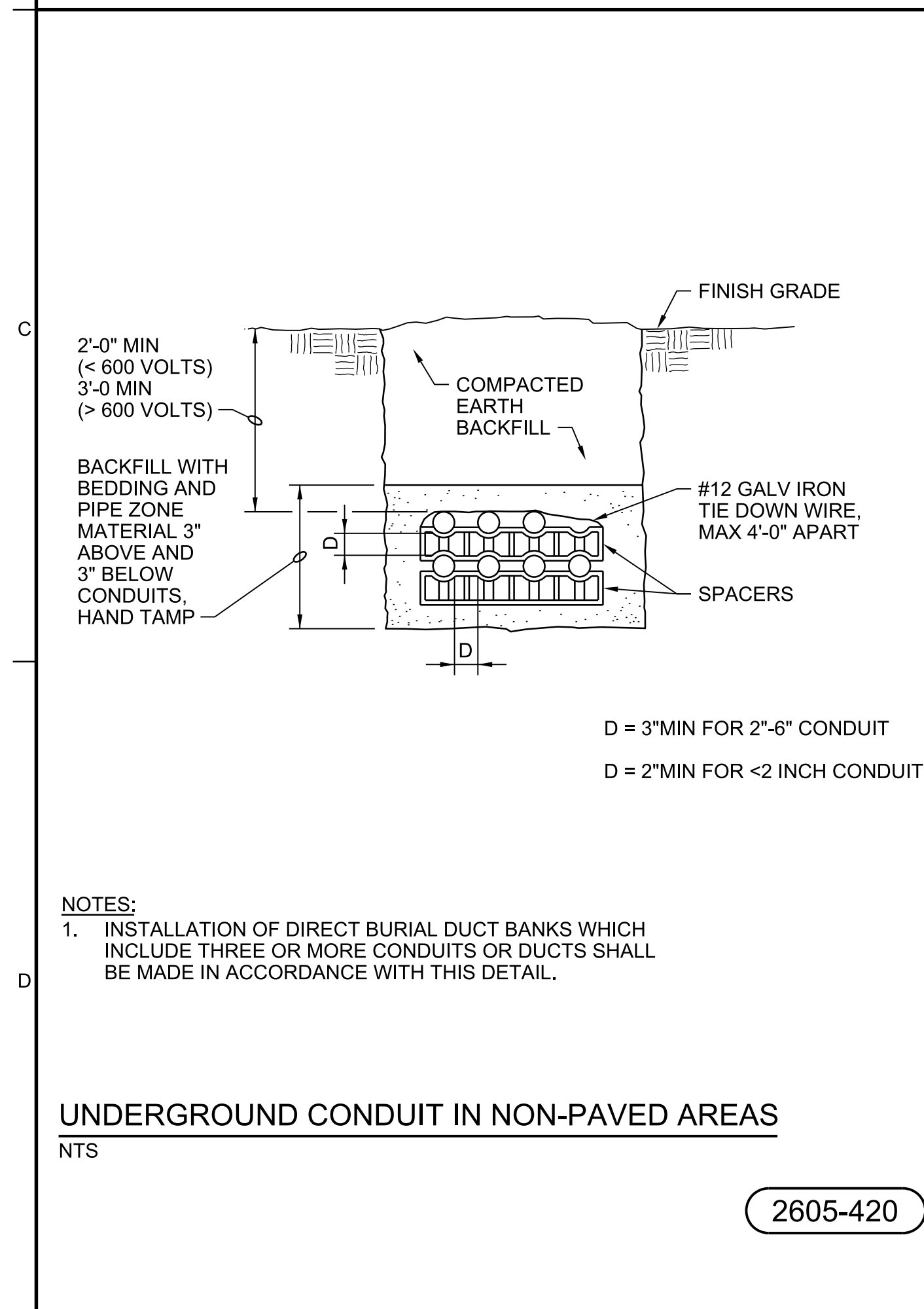
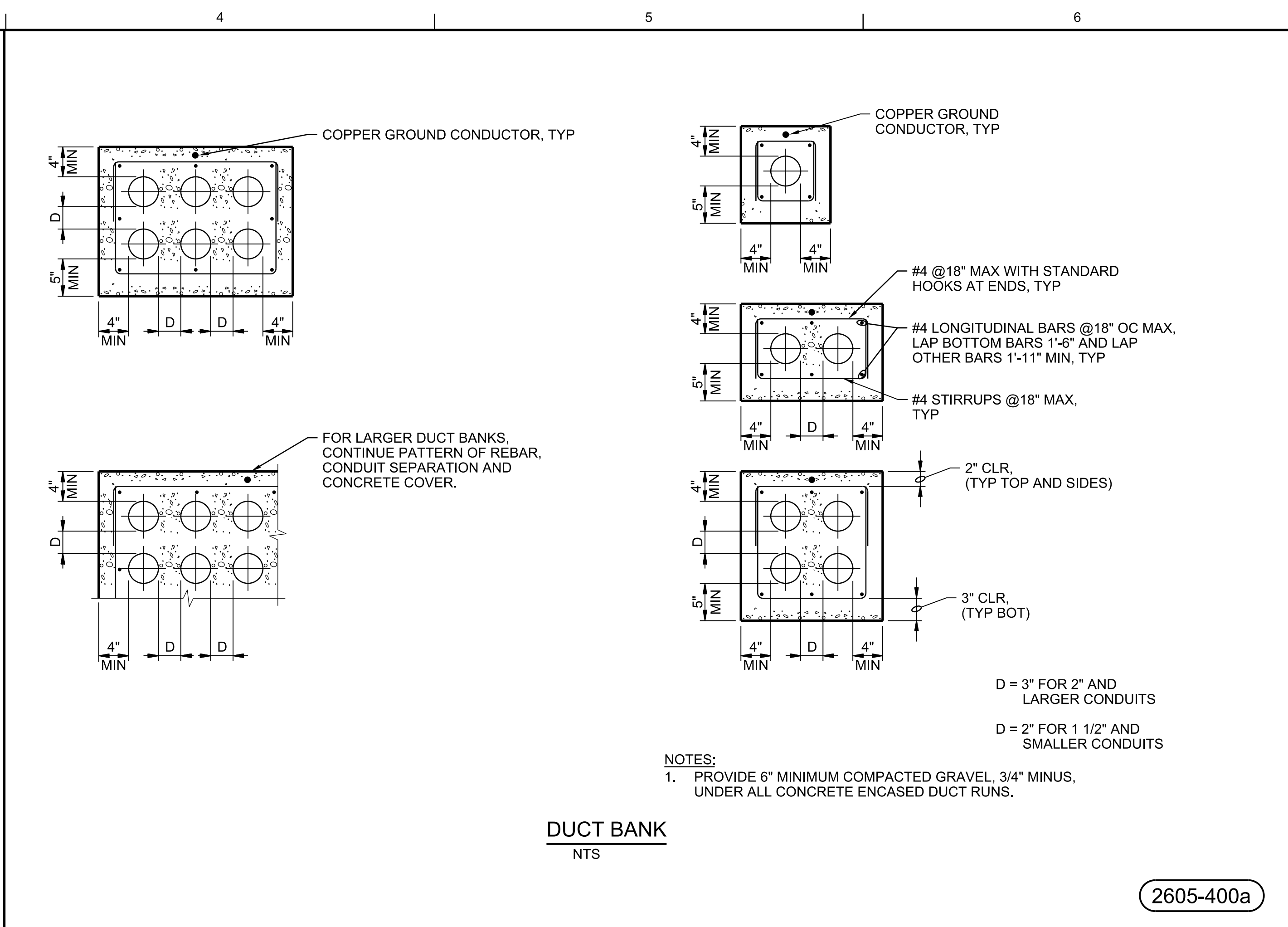
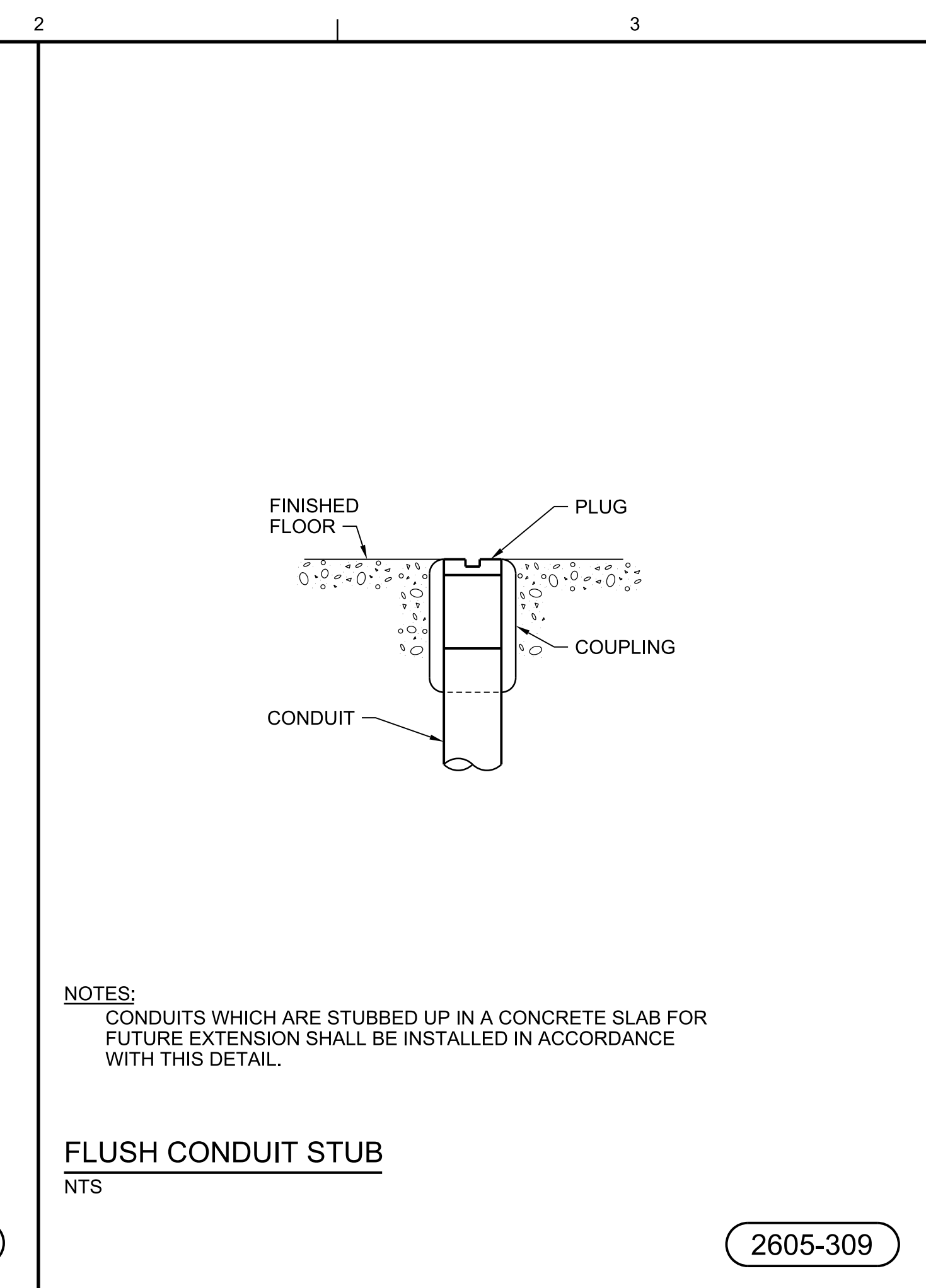
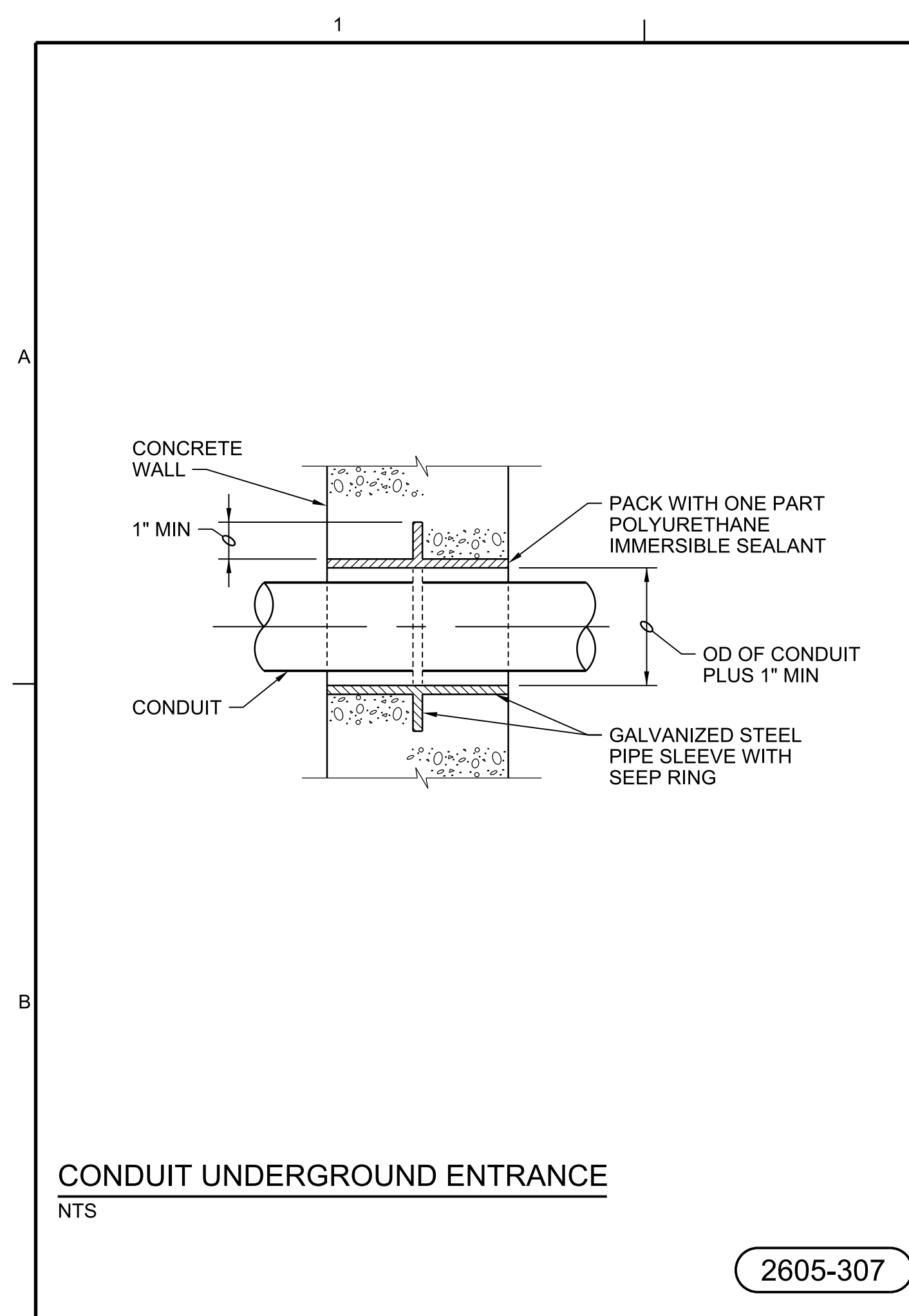
Jacobs

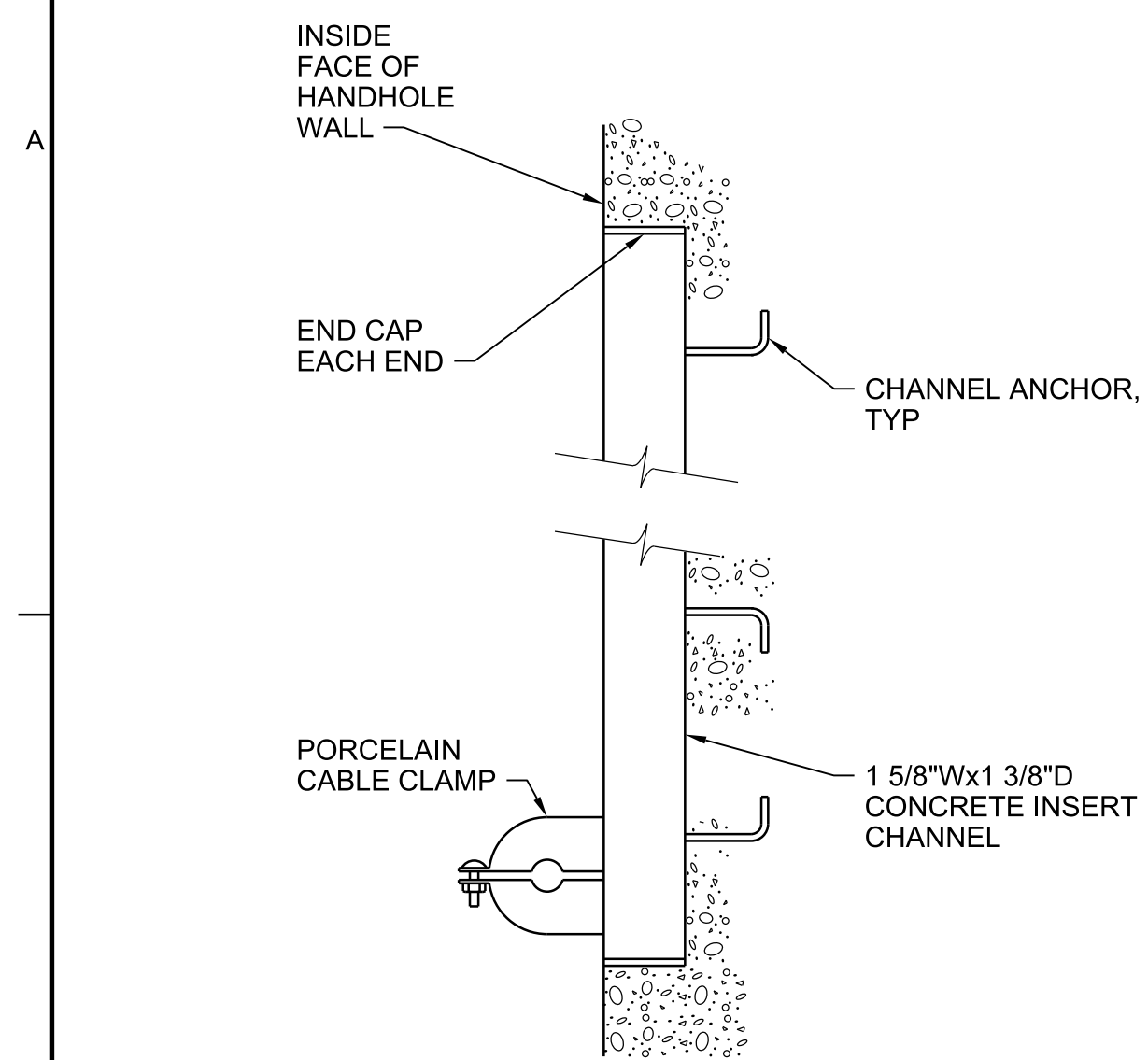
MECHANICAL
STANDARD
DETAILS

NTS	
VERIFY SCALE	
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DATE	MAY 2021
PROJ	D3226100
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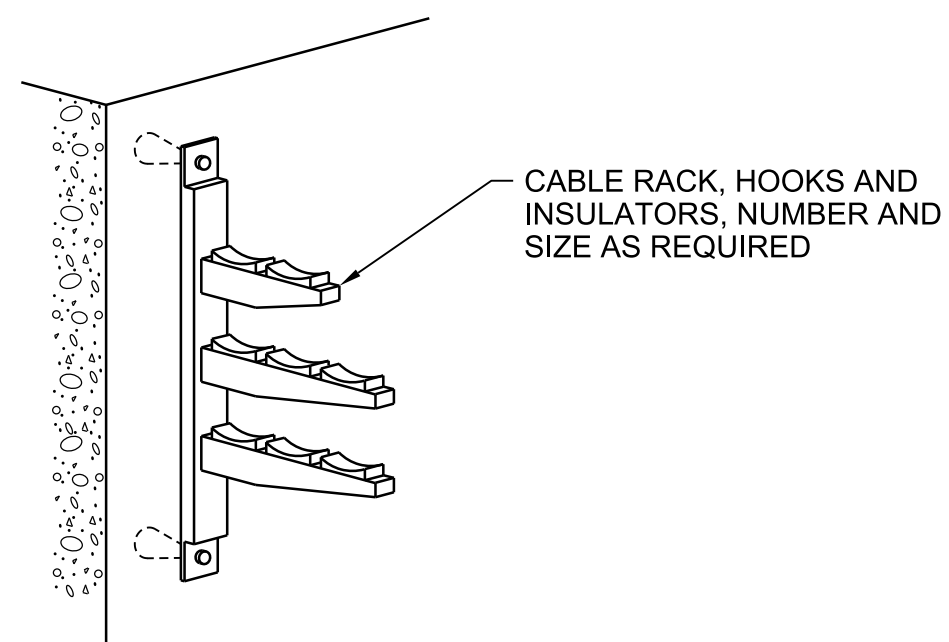
[illegible]



NOTES:
1. ALL COMPONENTS TO BE OF SAME MANUFACTURER.

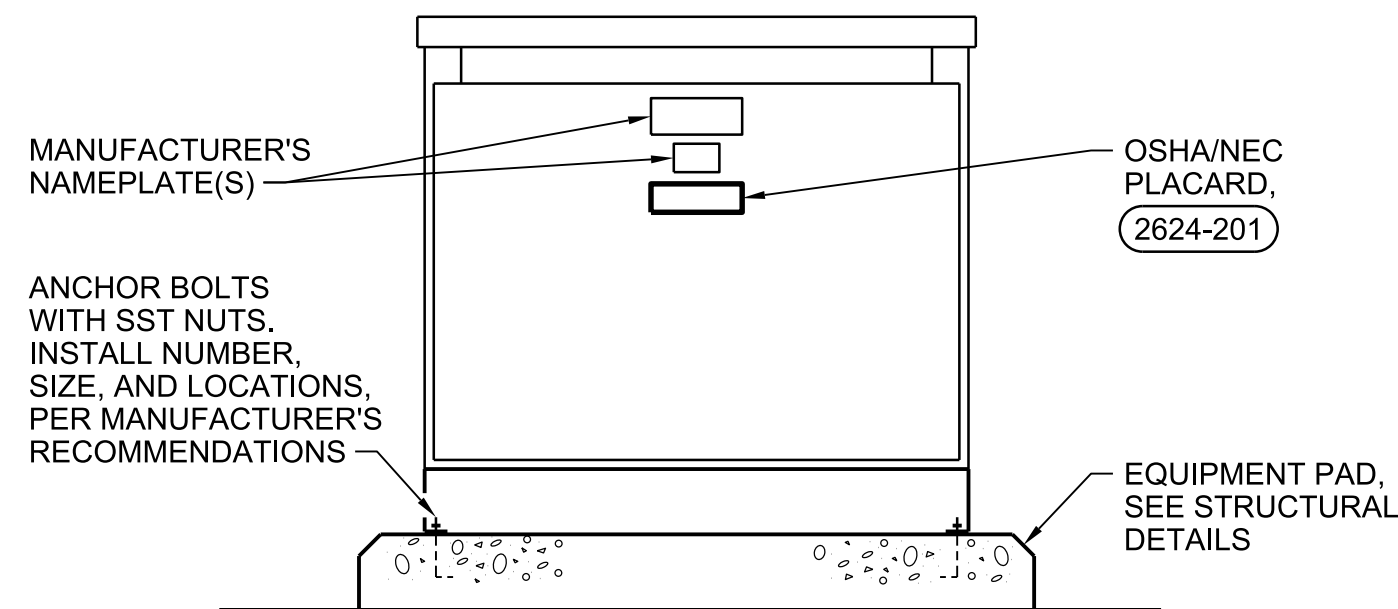
CABLE SUPPORT BRACKET

2605-447



CABLE RACK

2605-448



TRANSFORMER MOUNTING

2622-006

[illegible]

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP

DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAWSS)


MOBILE, ALABAMA

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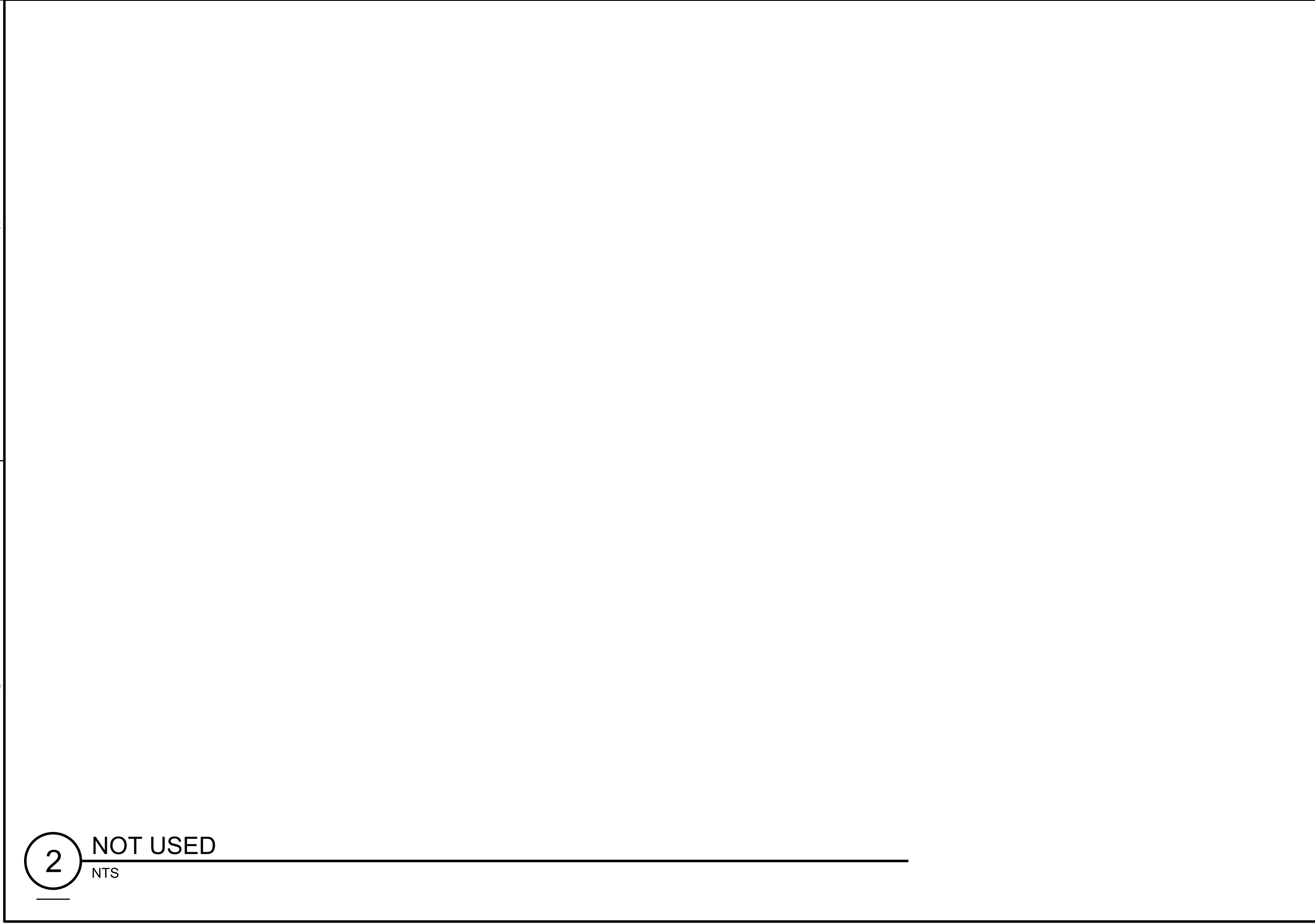
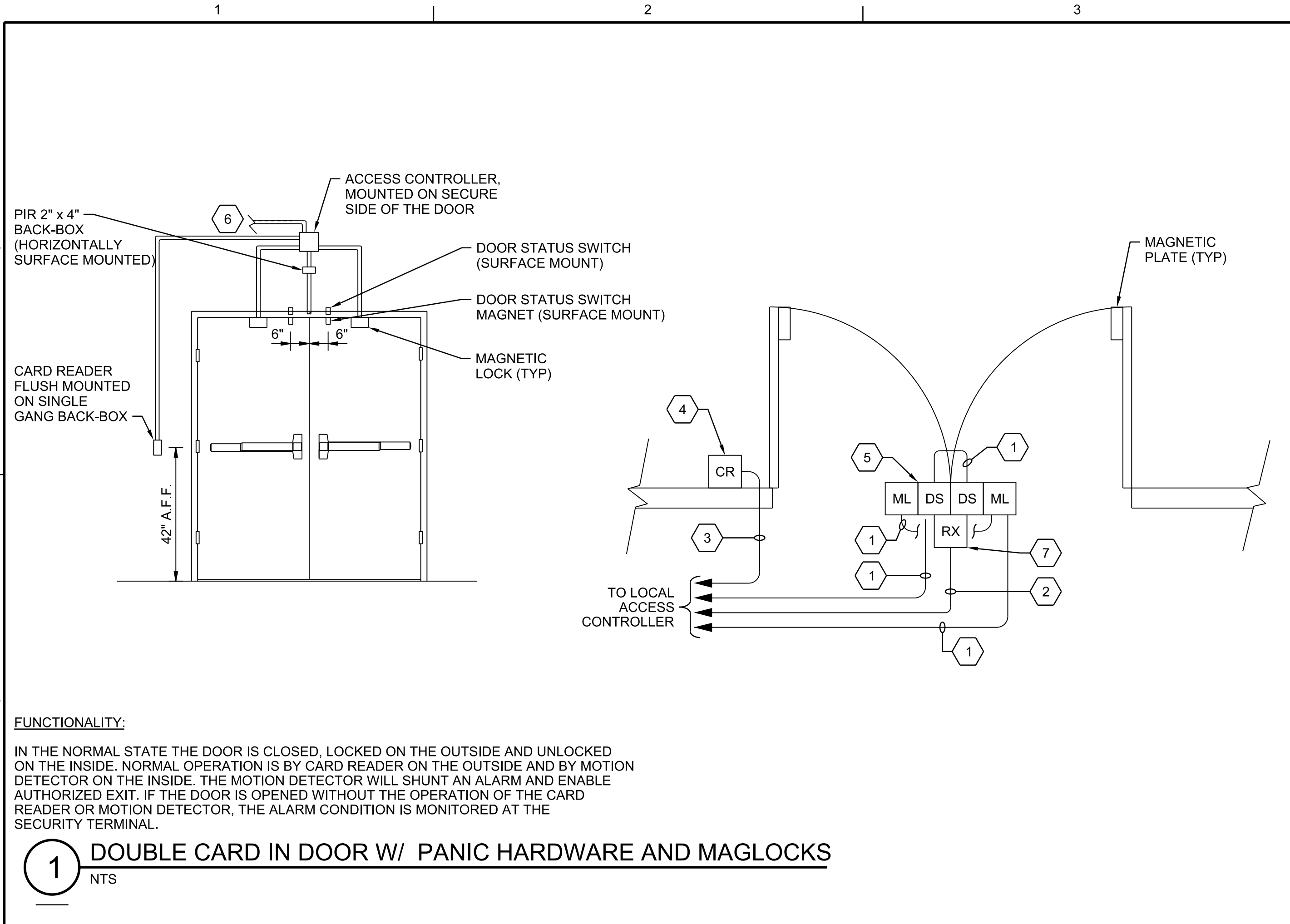
ELECTRICAL

STANDARD DETAILS

VERIFY SCALE	
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DATE	MAY 2021
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SHEET	264 of 270

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CONFORMED DOCUMENTS



GENERAL NOTES

- SEE DRAWING 01-G-0023 FOR GENERAL NOTES, ABBREVIATIONS, LEGEND, AND SYMBOLS.
- EQUIPMENT AND DEVICE LABELS: EQUIPMENT, PANELS, FIELD DEVICES, CABLES, AND CONDUITS SHALL BE LABELED WITH THE APPROPRIATE TAG NUMBERS AS SHOWN ON THE LEGEND, SPECIFICATIONS, AND DETAILS.
- DOOR DETAILS ARE BASED ON A RIGHT HAND REVERSE OPERATION. DOORS MAY DIFFER ON FLOOR PLANS. REFERENCE FLOOR PLANS FOR ACTUAL HANDING AND SWING OF DOOR.
- EQUIPMENT, INTERCONNECTION CABLES, AND WIRING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- SEE SPECIFICATION SECTION 08710 "DOOR HARDWARE" FOR STANDARD HARDWARE TYPES.

SHEET KEYNOTES

- FURNISH AND INSTALL (1) 18 AWG 2 CONDUCTOR CABLE.
- FURNISH AND INSTALL (1) 22 AWG 4 CONDUCTOR CABLE.
- FURNISH AND INSTALL (1) 22 AWG 6 CONDUCTOR SHIELDED CABLE.
- FURNISH AND INSTALL WALL MOUNT CARD READER.
- FURNISH AND INSTALL SURFACE MOUNT DOOR CONTACT.
- FIELD ROUTE 3/4 INCH CONDUIT TO SECURITY SWITCH PANEL.
- FURNISH AND INSTALL REQUEST-TO-EXIT.

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

C.C. WILLIAMS WWTP
DEWATERING FACILITY & OTHER IMPROVEMENTS
MOBILE AREA WATER & SEWER SYSTEM (MAVSS)

MOBILE, ALABAMA

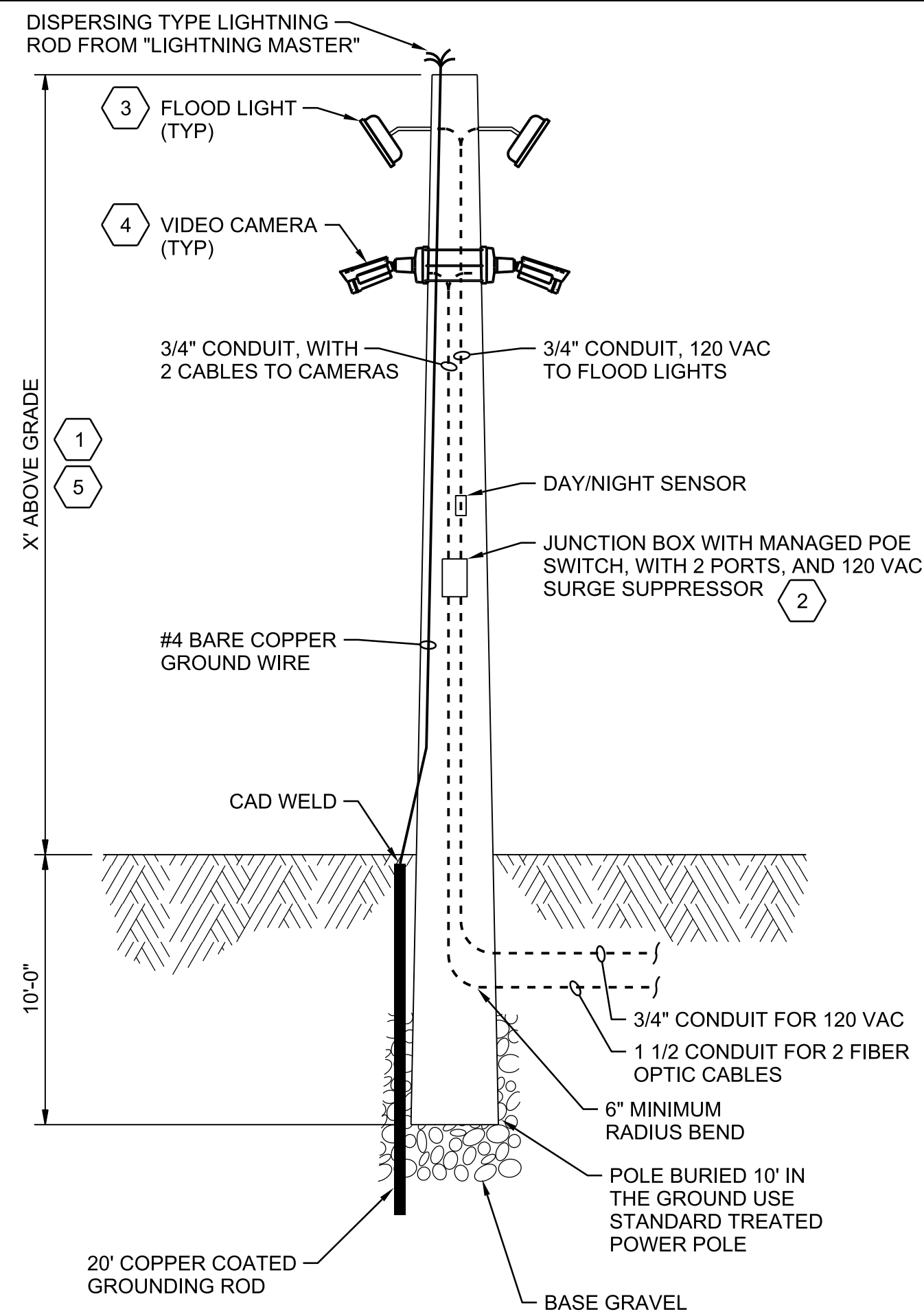
Jacobs

SECURITY
DETAILS

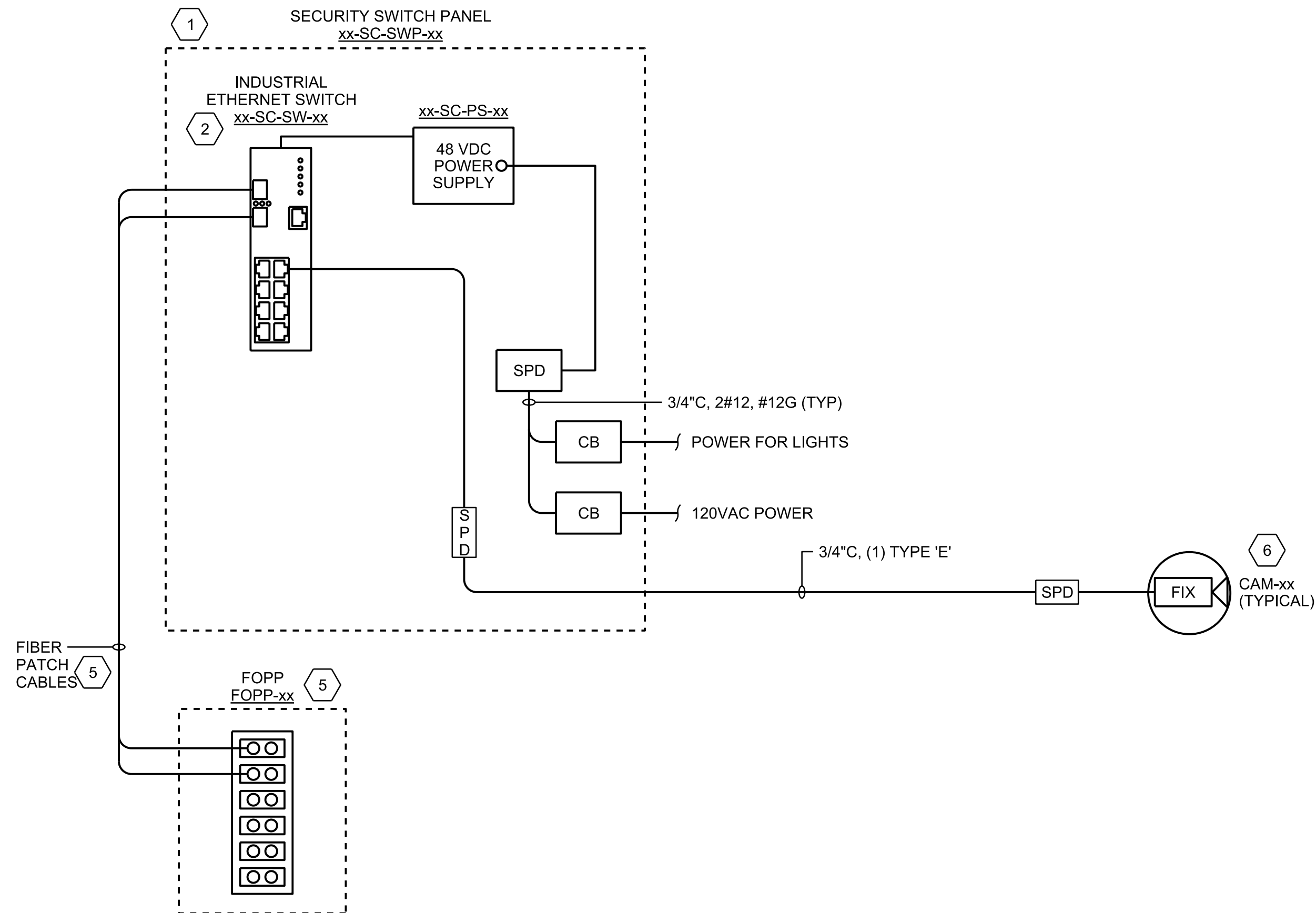
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VERIFY SCALE	
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DATE	MAY 2021
PROJ	D3226100
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CONFORMED DOCUMENTS

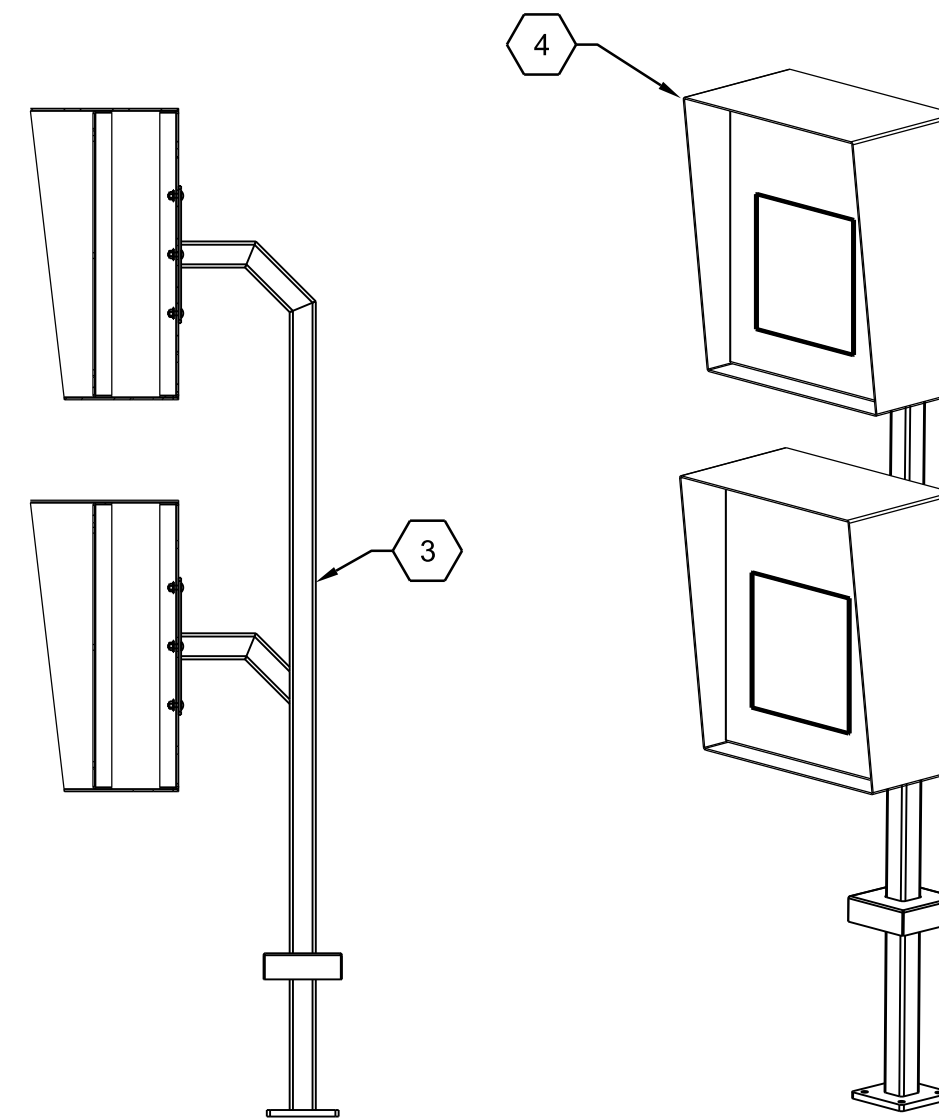
1. DESIGN FOR NEW WOOD CAMERA POLES TO BE APPROPRIATELY WEATHER-TREATED TO MATCH CURRENT POLES AND TO ACCOMMODATE ENVIRONMENTAL CONDITIONS OF THE SITE. REFER TO CAMERA POLE SCHEDULE ON DWG 06-TY-2002. THE NEW CAMERA POLES SHALL BE RATED FOR THE SITE'S INDICATED WIND LOAD.
2. CAMERA JUNCTION BOX. MOUNTING HEIGHT NOT TO EXCEED 5 FEET FROM TOP OF JUNCTION BOX TO GRADE.
3. LIGHTS, MOUNTING ARMS, AND ALL ASSOCIATED HARDWARE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. LIGHTS TO BE MOUNTED ABOVE THE CAMERAS. FIELD DRILL POLE TO SUIT CROSS ARMS. FIXTURE SHALL BE DXF2 LED 3 P 40K WFR 120-THX-120-DBDX AS MANUFACTURED BY LITHONIA. REFER TO CAMERA POLE SCHEDULE ON DWG 06-TY-2002.
4. CAMERA TO BE MOUNTED 3 FEET MINIMUM BELOW THE LIGHT.
5. CONTRACTOR AND SUBCONTRACTORS SHALL NOTIFY WILLIAMS PLANT SUPERVISION PERSONNEL BEFORE DIGGING FOR INSTALLATION OF CONDUIT OR POLES.



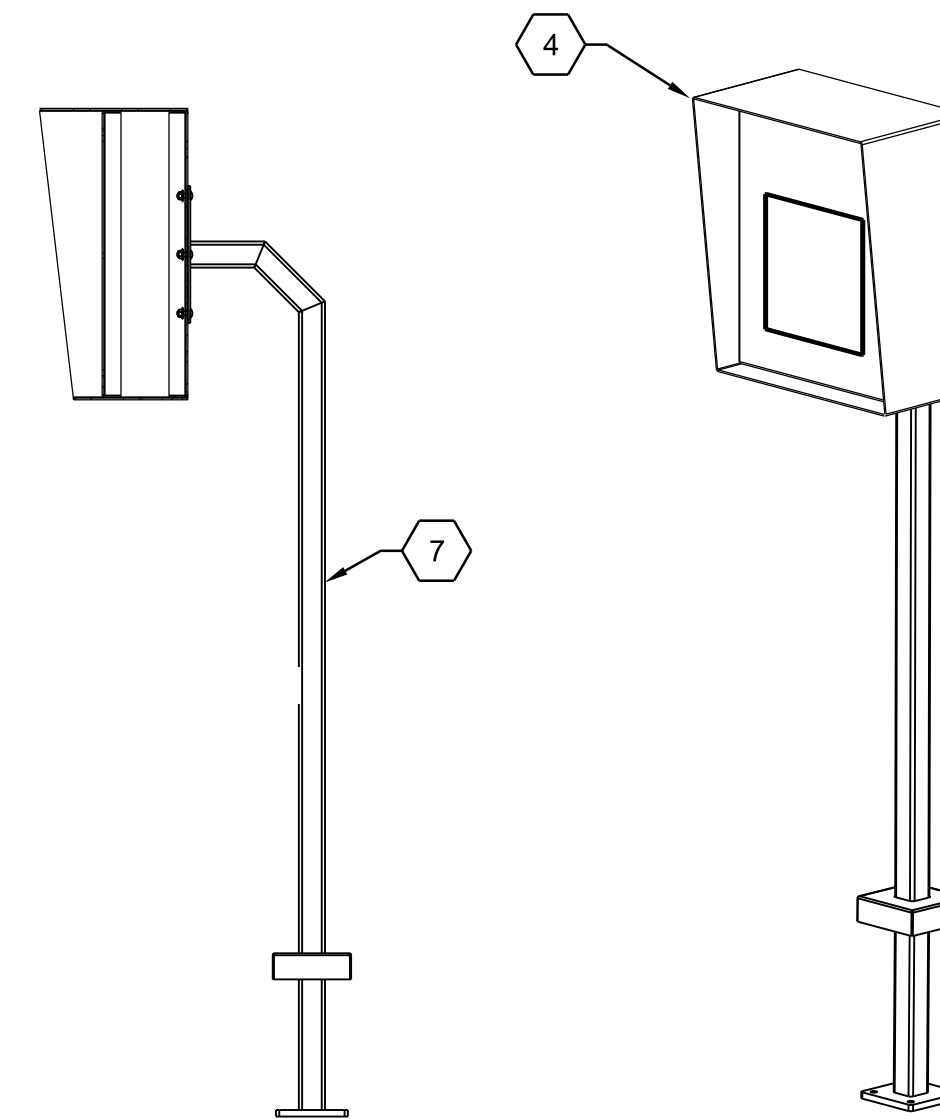
12 CAMERA POLE FOUNDATION



13 CAMERA POLE SECURITY SWITCH CONTROL PANEL - RISER DIAGRAM (TYPICAL)



14 DUAL HEIGHT STANCHION
NTS



15 SINGLE HEIGHT STANCHION
NTS

1. SEE DRAWING 01-G-0023 FOR GENERAL NOTES, ABBREVIATIONS, LEGEND, AND SYMBOLS.
2. EXTERIOR MOUNTED EQUIPMENT SHALL BE WATERPROOF. PENETRATIONS IN ENCLOSURES, MOUNTS AND CAMERA POLES SHOULD BE FROM THE BOTTOM OR SIDE, NOT THE TOP. SEAL PENETRATIONS.
3. COORDINATE INSTALLATION OF RACEWAYS, POWER, AND FIELD DEVICES WITH OTHER TRADES.
4. EQUIPMENT, INTERCONNECTION CABLES, AND WIRING SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
5. OUTDOOR CAMERAS SHALL INCLUDE ENVIRONMENTAL HOUSINGS.

1. NEMA 4 JUNCTION BOX, SIZED TO ACCOMMODATE REQUIRED COMPONENTS.
2. REFER TO SPECIFICATION SECTION 28 23 00, VIDEO SURVEILLANCE FOR PART NUMBER.
3. DUAL HEIGHT CARD READER STANCHION.
4. CARD READER/PUSH TO EXIT HOOD.
5. PROVIDED BY PROCESS INSTRUMENTATION AND CONTROL SUPPLIER (PICs).
6. FOR CAMERA QUANTITIES MOUNTED ON EACH CAMERA POLE, REFER TO THE FOLLOWING SPECIFICATION AND DRAWINGS:
 - SECTION 28 00 00, SECURITY COMPONENTS LIST
 - DWG 06-TY-2002, OVERALL SITE SECURITY PLAN
7. SINGLE HEIGHT PUSH TO EXIT STANCHION.

[illegible]


25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

25 WEST CEDAR STREET, SUITE 200
PENSACOLA, FL 32502
C.C. WILLIAMS WWTP

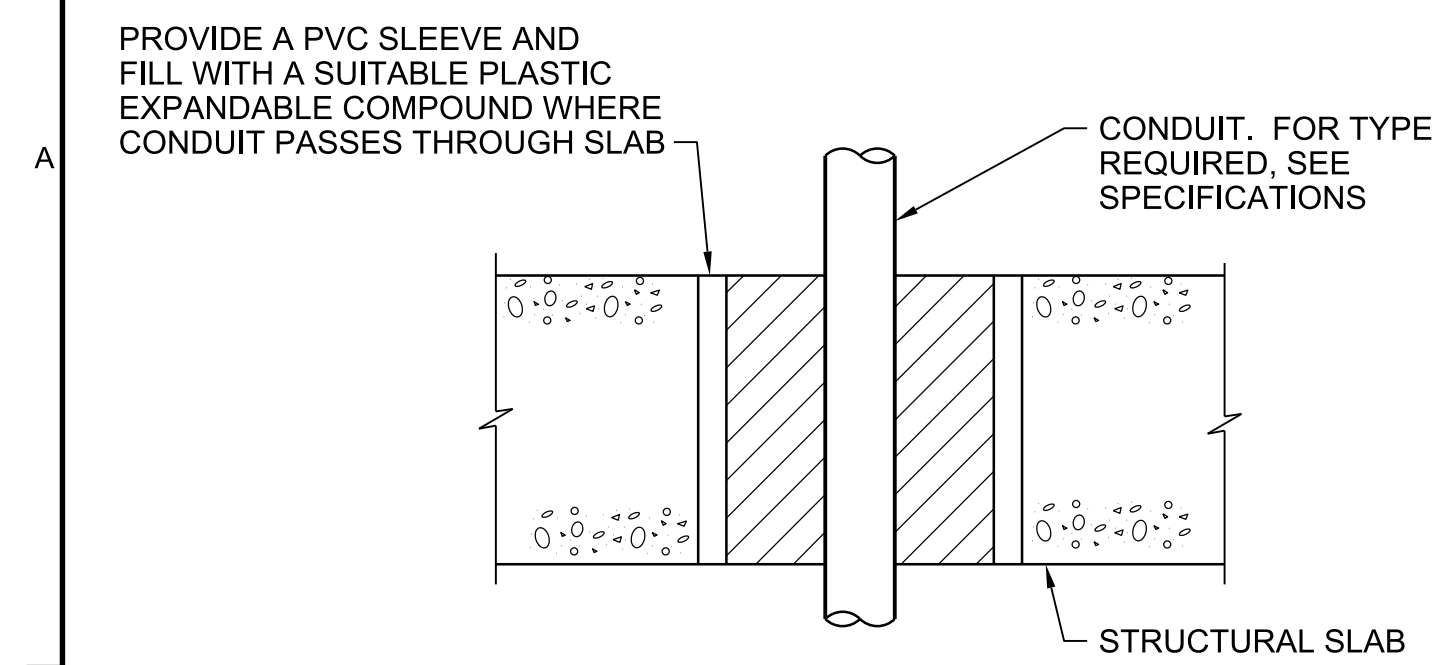
25 WEST CEDAR STREET, SUITE 200 PENSACOLA, FL 32502-0000	C.C. WILLIAMS WWTP DEWATERING FACILITY & OTHER IM MOBILE AREA WATER & SEWER SYS/S MOBILE, ALABAMA
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Jacobs

acrob
SECURITY
DETAILS

NTS	
VERIFY SCALE	
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PROJ	D3226100
DWG	99-TY-5004
SHEET	268 of 270

1	0	4	CONFIRMED DOCUMENTS
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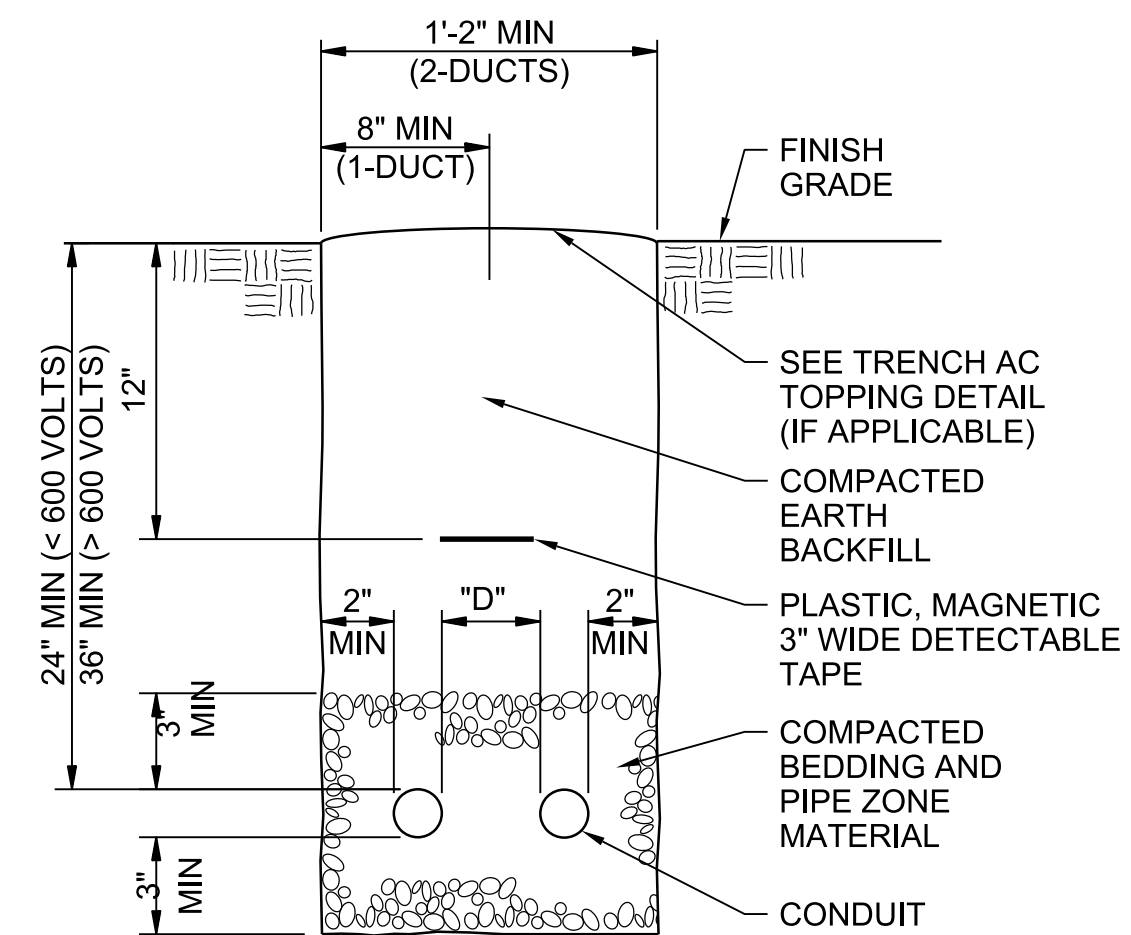
NOTE:

ALL CONDUITS THROUGH CONCRETE FLOOR SLABS AND EQUIPMENT PADS SHALL BE INSTALLED IN ACCORDANCE WITH THIS DETAIL.

SLAB PENETRATION

NTS

2605-310



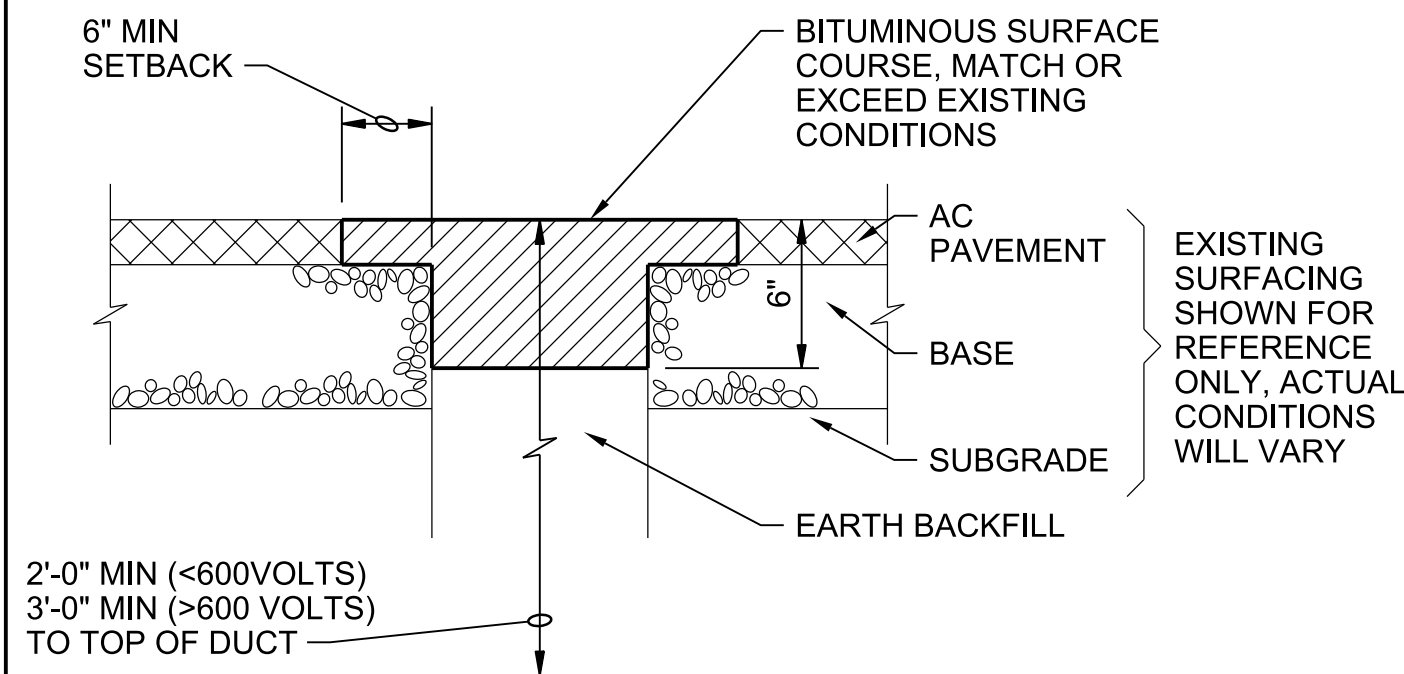
D = 3" MIN FOR 2" AND
LARGER CONDUIT

D = 2" MIN FOR 1 1/2" AND
SMALLER CONDUIT

TRENCH AND CONDUIT PLACEMENT

NTS

2605-423B



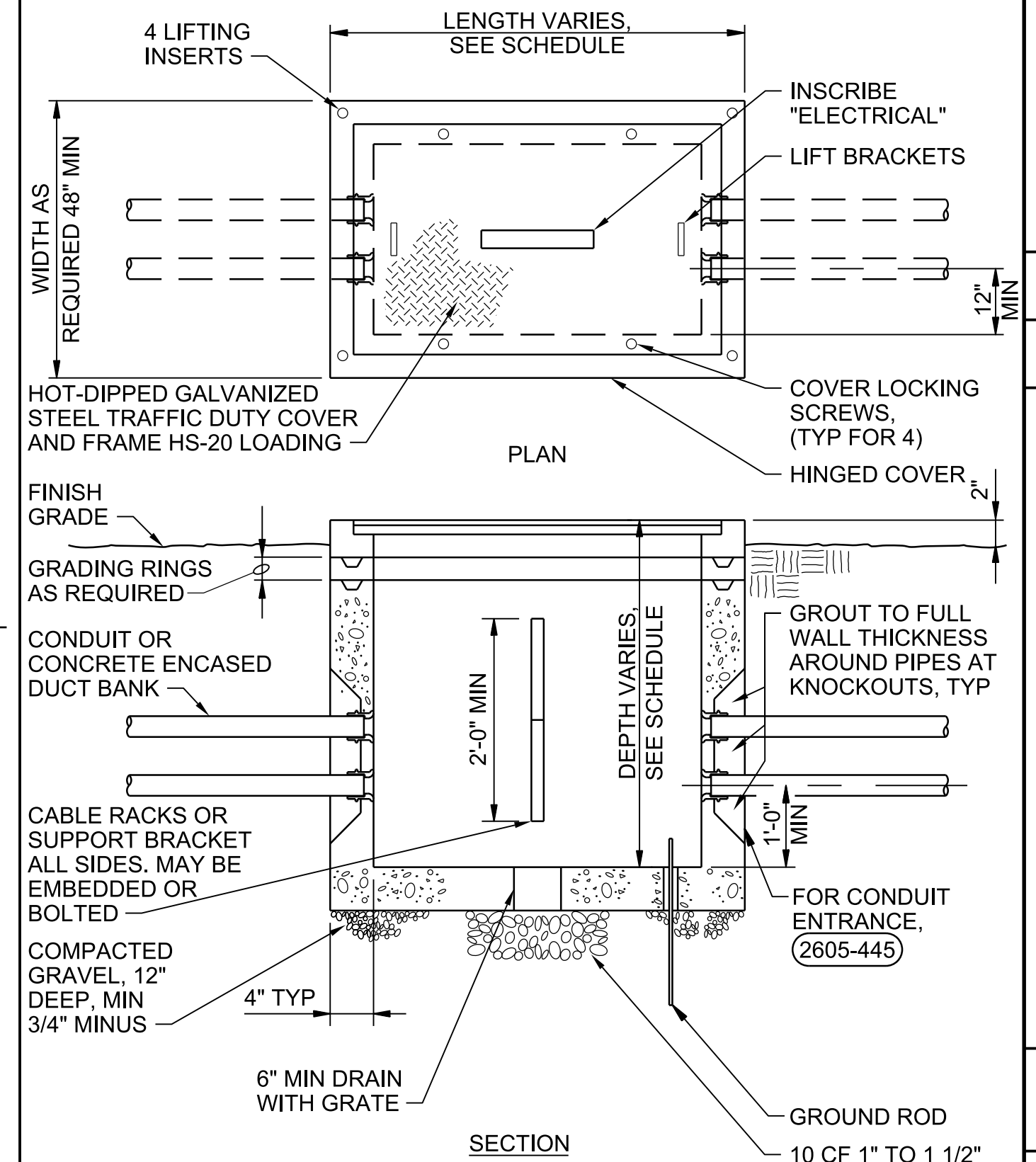
NOTE:

TYPICAL FOR EXISTING PAVEMENT AREAS THAT ARE USED BY VEHICLES.

TRAFFIC TRENCH AC TOPPING

NTS

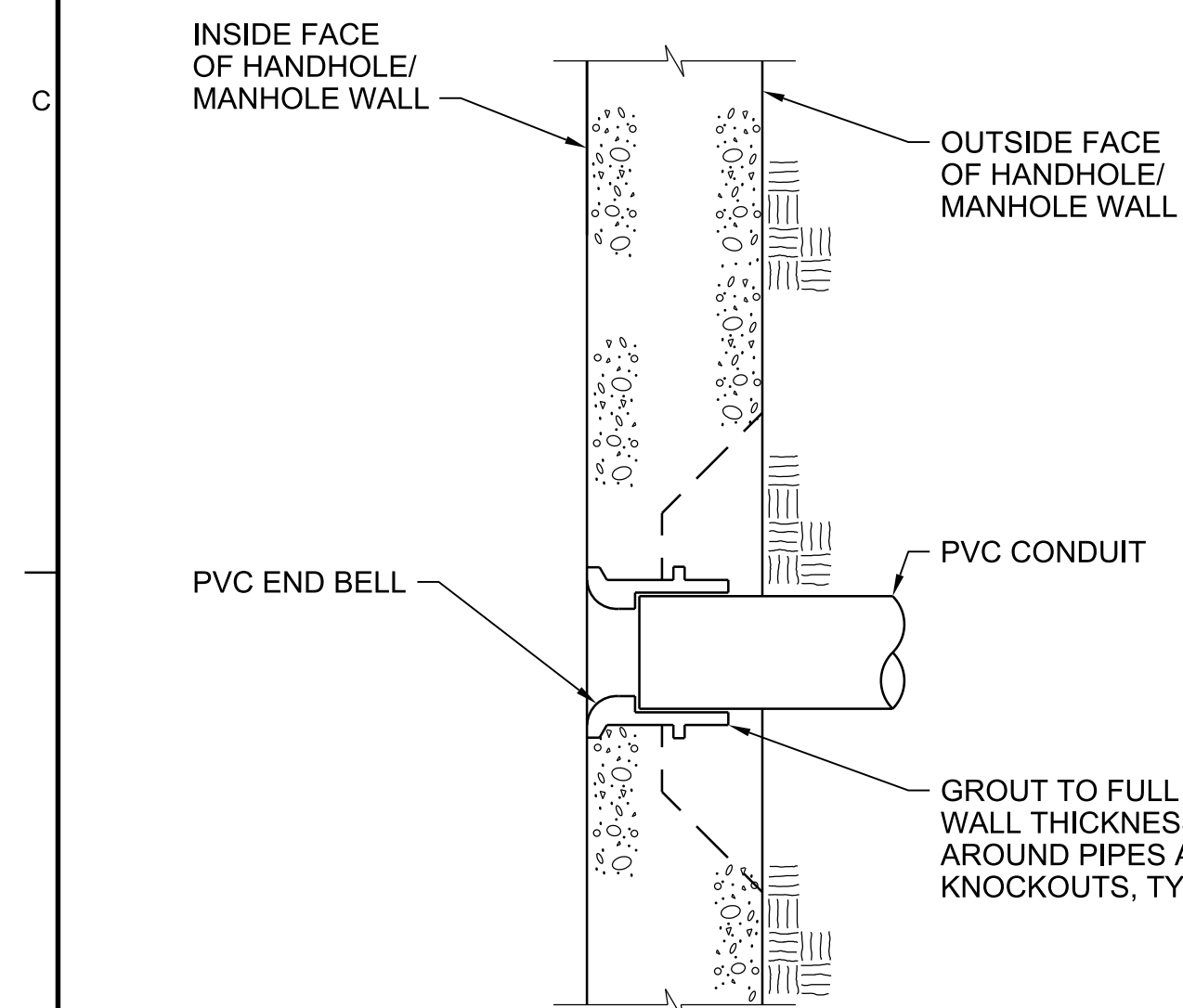
2605-424



HANDHOLE

NTS

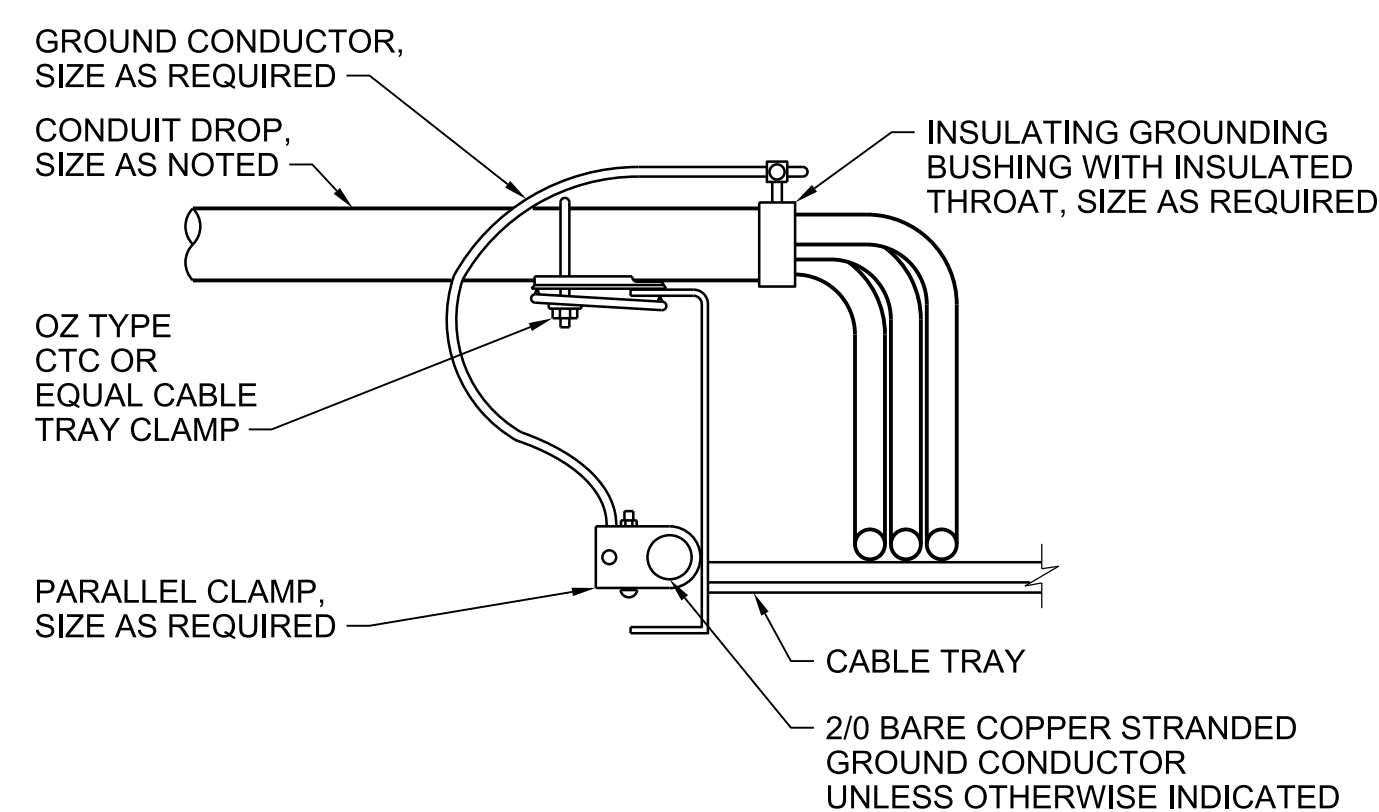
2605-444



CONDUIT HANDHOLE/MANHOLE ENTRANCE

NTS

2605-445



NOTE:

FASTENING HARDWARE IN TRAY SHALL BE ROUNDED AND HAVE NO SHARP CORNERS.

CONDUIT DROP INTO CABLE TRAY

NTS

2605-702