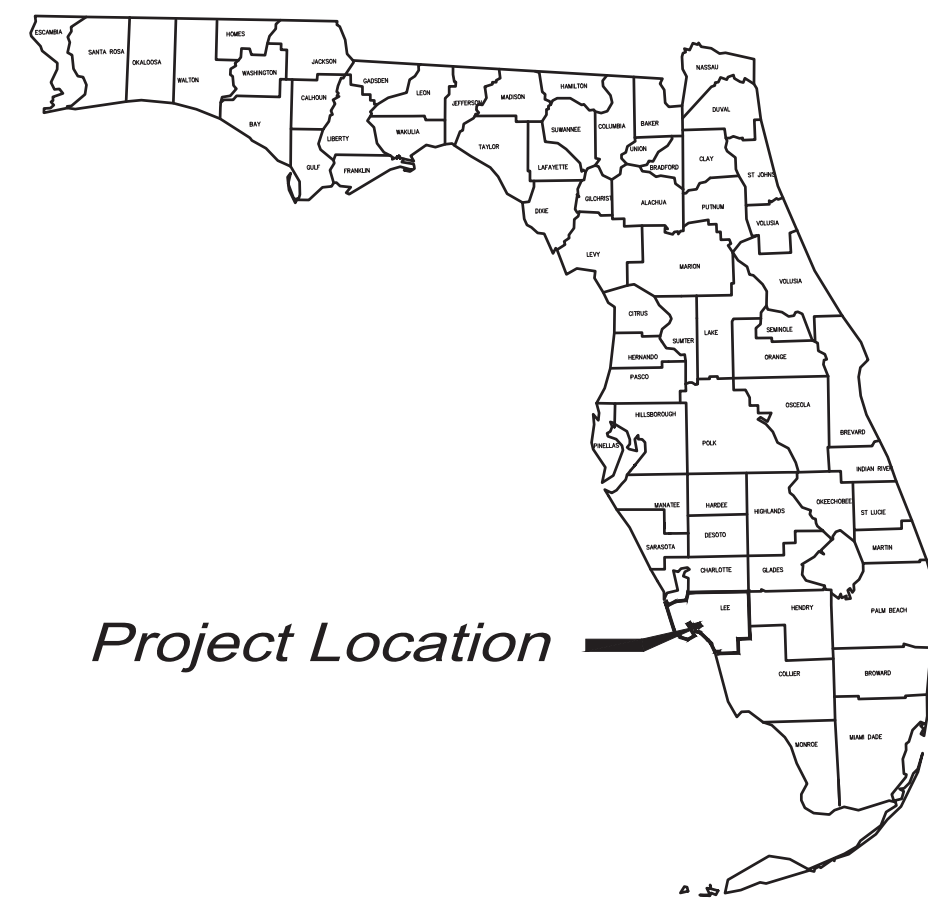


CONSTRUCTION PLANS for GATEWAY WRF SLUDGE LOADING AREA ROOF



LEE COUNTY, FLORIDA



LEE COUNTY PUBLIC WORKS
1500 MONROE STREET
FORT MYERS, FL 33901
www.leegov.com

CHARLIE DUVERGE
(239) 533-8164

FOR BID / CONSTRUCTION



1404 DEAN STREET SUITE 101, FORT MYERS, FL 33901

NOVEMBER, 2020

DRMP PROJECT NO. 19-0229.000

PROJECT SHEET INDEX

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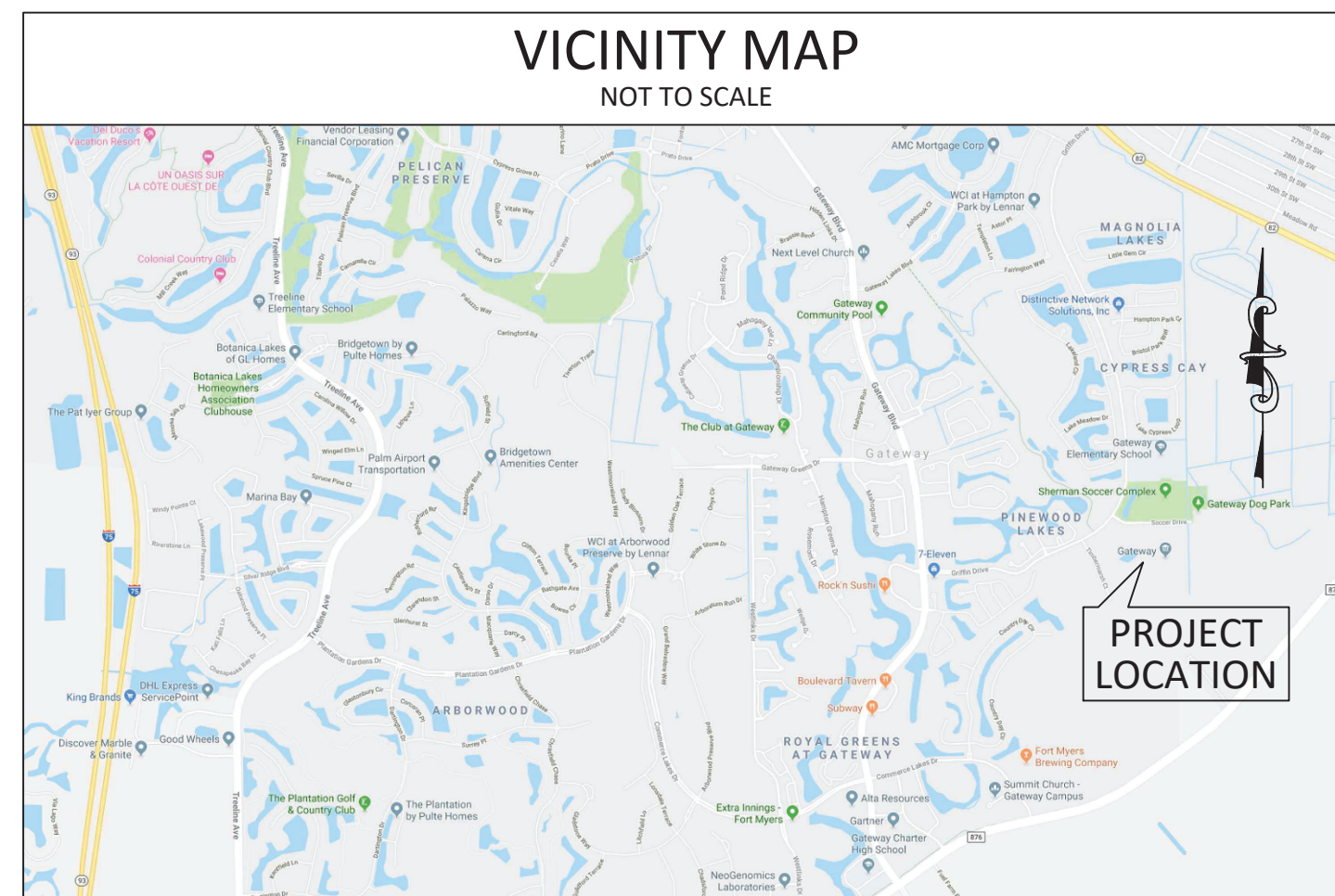
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NOTE:
ATTENTION IS DIRECTED TO THE FACT THAT
THESE PLANS MAY HAVE BEEN ALTERED IN
SIZE BY REPRODUCTION. THIS MUST BE
CONSIDERED WHEN OBTAINING SCALED DATA.

CONSULTANT CONTACTS:

CIVIL ENGINEERING
DRMP, INC.
1404 DEAN STREET SUITE 101
FORT MYERS, FL 33901
PATRICK DAY 239-206-5093

GEOTECHNICAL
VELOCITY ENGINEERING SERVICES
12821 COMMERCE LAKES DRIVE, SUITE 7
FORT MYERS, FL 33913 239-689-1474



SITE ADDRESS: 13265 SOCCER DRIVE, FORT MYERS, FL 33913

LEE COUNTY BOARD OF COUNTY COMMISSIONERS:

- DISTRICT 1 - JOHN MANNING
- DISTRICT 2 - CECIL PENDERGRASS
- DISTRICT 3 - RAYMOND SANDELLI
- DISTRICT 4 - BRIAN HAMMAN
- DISTRICT 5 - FRANK MANN

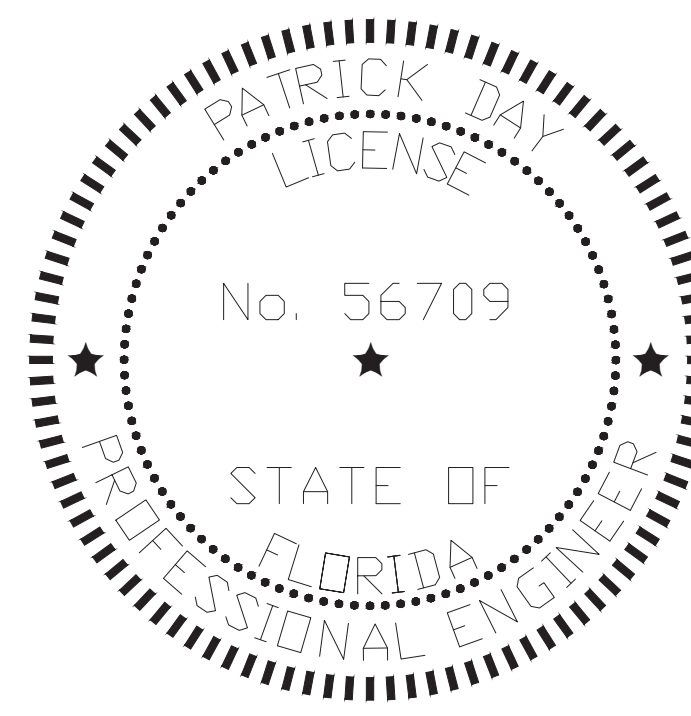
REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY		APPROVED BY	
NO.	DATE	DPC	DPC	PJD	PJD	DPC	DPC	PJD	PJD

CONSTRUCTION PLANS FOR GATEWAY WRF SLUDGE LOADING AREA ROOF LEE COUNTY, FLORIDA	COVER SHEET AND INDEX OF DRAWINGS	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

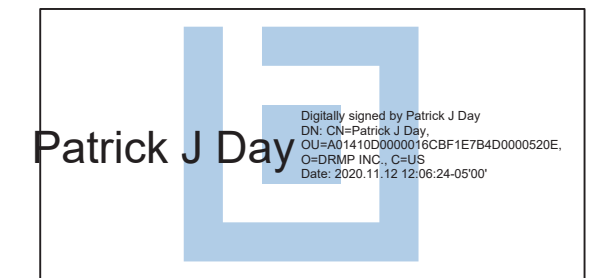
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS Certificate of Authorization No. 2848 941 Lake Baldwin Lane - Orlando, Florida 32814 Phone: 407.896.0594 Fax: 407.896.4836 www.drmp.com	DRMP, Inc.
	Patrick Day, P.E. State of Florida # 56709 PROJECT NO.: 19-0229.000 SCALE: NONE DATE: NOVEMBER, 2020 DRAWING: G1.0

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:



ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DRMP, INC.
 1404 DEAN STREET SUITE 101
 FORT MYERS, FL 33901
 PHONE: (239) 206-5093
 CERTIFICATE OF AUTHORIZATION No. 2648
PATRICK DAY, P.E.
 LICENSE NO. 56709

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
C1.1	GENERAL NOTES
C1.2	BUILDING SPECIFICATIONS
C2.0	SITE PLAN SETBACK
C3.0	SLUDGE LOADING ROOF PLAN
C3.1	SLUDGE LOADING ROOF DRAINAGE PROFILE & CONCRETE PAD
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SCALE: NONE DATE: NOVEMBER, 2020 DRAWING: C1.0		SIGNATURE SHEET		DESIGNED BY: DPC DRAWN BY: DPC CHECKED BY: PJD APPROVED BY: PJD	
				R E V I S I O N S NO. DATE DESCRIPTION BY	

GENERAL NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS:
 - CURRENT LEE COUNTY UTILITIES TECHNICAL SPECIFICATIONS.
2. THIS DESIGN HAS BEEN BASED ON AS-BUILT DATA PROVIDED BY LEE COUNTY PUBLIC WORKS. GEOTECHNICAL EVALUATION HAS BEEN PERFORMED BY VELOCITY ENGINEERING SERVICES. DRMP, INC. MAKES NO ASSURANCES REGARDING THE ACCURACY OF SUCH AS-BUILT DATA OR GEOTECHNICAL EVALUATION.
3. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE, INCLUDING ALL SURFACE AND SUBSURFACE CONDITIONS, THE WORK REQUIRED AND ALL OTHER CONDITIONS THAT MAY AFFECT THE SUCCESSFUL COMPLETION OF THE JOB PRIOR TO COMMENCEMENT OF WORK.
4. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, HE SHALL PROMPTLY NOTIFY THE ENGINEER, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
7. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.
8. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY, CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY. IN ADDITION, CONTRACTOR SHALL OBTAIN GAS I.D. NUMBER FROM LOCAL GAS COMPANY AND NOTIFY UNDERGROUND UTILITIES, NOTIFICATION CENTER AT 1-800-432-4770 AT LEAST 72 HOURS PRIOR TO START OF WORK.
9. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL DEVELOP AND IMPLEMENT A TRAFFIC CONTROL PLAN CONSISTENT WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, AND SUBMIT TO THE ENGINEER FOR APPROVAL.
10. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNER'S AGENT.
11. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PERMANENT REFERENCE MONUMENTS, PERMANENT CONTROL POINTS, PERMANENT BENCH MARKS AND PROPERTY CORNERS. IN THE EVENT THE MONUMENTS, POINTS OR MARKERS ARE DISTURBED THE CONTRACTOR SHALL EMPLOY A FLORIDA REGISTERED LAND SURVEYOR TO RESET OR REPLACE THEM.
12. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
14. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY MANUFACTURER.
15. PRIOR TO INITIATING ANY EXCAVATION (INCLUDING BUT NOT LIMITED TO TUNNELS, DITCHES, STORM WATER PONDS, CANALS, ARTIFICIAL LAKES) CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO INSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.
16. CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT.
- 17.1 THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
 - A. ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY;
 - B. ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS;
 - C. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION.
- 17.2 THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERCT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS.
- 17.3 ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN CLAUSES 17.1(B) AND 17.1(C) CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR.
- 17.4 UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF.

- 17.5 THE CONTRACTOR SHALL NOT LOAD OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER ITS SAFETY. NO LOAD SHALL BE PLACED ON A ROOF WITHOUT THE APPROVAL OF THE OWNER OR ENGINEER.
- 17.6 THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
- 17.7 PERMANENT OPENINGS USED AS THOROUGHFARES FOR THE INTRODUCTION OF WORK AND MATERIALS TO THE STRUCTURE SHALL HAVE HEADS, JAMBS AND SILLS WELL BLOCKED AND BOARDED BY THE CONTRACTOR. OWNER RETAINS THE AUTHORITY, BUT ASSUMES NO DUTY, TO ESTABLISH STANDARDS OF PROTECTION, AND TO REVIEW THE EFFICIENCY OF PROTECTIVE MEASURES TAKEN BY THE CONTRACTOR.
- 17.8 ADEQUATE TRAFFIC CONTROL, BARRICADES AND FLAGMAN SERVICES SHALL BE FURNISHED AND MAINTAINED BY THE CONTRACTOR AT ALL POINTS WHERE CONVEYING EQUIPMENT ENGAGED ON THE WORK REGULARLY ENTERS ONTO OR CROSSES TRAFFIC-CARRYING ROADS.
- 18.1 THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH.
- 18.2 THE CONTRACTOR SHALL PROTECT AND KEEP OWNER (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.
19. ALL WORK PERFORMED UNDER THE CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE WORK SHALL CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL GOVERN.
20. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT AN EROSION CONTROL PLAN TO MINIMIZE EROSION AND INSURE FUNCTIONING OF STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION.
- 21.1 CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS (AS DEFINED PARAGRAPH 20.8) IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW.
- 21.2 CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 21.3 CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING AND HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF PARAGRAPH 21.7.
- 21.4 CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THIS ARTICLE 21.
- 21.5 SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THIS PARAGRAPH, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 21.6 IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER IN WRITING.
- 21.7 IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THIS PARAGRAPH, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS OF THE PARAGRAPH WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT.
- 21.8 "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
22. THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.

LEE COUNTY UTILITIES - STANDARD PLAN NOTES

GENERAL

The standard notes shown below shall be included on all water and sewer plans submitted for approval to Lee County Utilities (LCU).

1. All work shall conform to latest revision of the LCU Design Manual which is available on our web-page via the following link: <https://www.leegov.com/utilities/design-manual>
2. All Regulatory and Permitting Agencies' requirements shall be complied with as well.
3. Any quantities shown on plans are not verified by LCU.
4. The information provided in these plans is solely to assist the Contractor in assessing the nature and extent of conditions that may be encountered during the course of work. All Contractors are directed, prior to bidding, to conduct whatever investigations they may deem necessary to arrive at their own conclusion regarding the actual conditions that will be encountered, and upon which their bids will be based.
5. All construction work performed must be done by a Contractor licensed in the State of Florida to do the work intended.
6. A pre-construction meeting is required before work may begin. Required attendees include but are not limited to; the Engineer of Record or his designee, the Underground Contractor and the LCU Inspector assigned to the project. LCU is to be notified two (2) working days prior to the pre-construction meeting.
7. One copy of the LCU Approved/Stamped Construction Plans, all Contract Documents, Reference Documents and Technical Documents submitted must be kept at the site and maintained in good order.
8. All work and materials, which do not conform to LCU specifications, are subject to removal and replacement at the Contractor's expense.
9. Any work performed without the knowledge of LCU is subject to re-excavation, removal and replacement of same to be done at the Contractor's expense.
10. LCU Inspection Staff is to be present for all hot taps, pressure tests, lift station start-ups and for any necessary inspection. The Contractor is to provide a minimum of two (2) working days notice prior to scheduling any of the above with the exception of the lift station start-up which requires one-week notice.
11. Traffic must be maintained at all times as per Lee County Department of Transportation (LCDOT) and per Florida Department of Transportation (FDOT) standard specifications for road and bridge construction, latest edition.
12. The Contractor is to uncover all existing lines being tied into and verify grades before beginning construction.
13. Locations, elevations, and dimensions of existing utilities, structures and other features are shown according to the best information available at the time of preparation of these plans, but do not purport to be absolutely correct. LCU will not guarantee any locations as shown on these plans or those omitted from these plans.
14. The Contractor shall verify all utilities and provide at least two (2) working days notice to the individual utility companies, FDOT and LCDOT prior to construction.
15. It is the Contractor's responsibility to locate and take all possible precautions to avoid any damage to all underground pipelines, telephone, cable TV, electric lines/conduits and structures in advance of any construction. The Contractor shall be fully responsible for any and all damages that may occur due to his failure to exactly locate and protect existing utilities and structures.
16. Anything not shown on these drawings should be brought to the attention of the Engineer and shall not constitute an extra, unless approved by the Engineer of Record.
17. The Contractor shall contact the Engineer and LCU immediately concerning any conflicts with LCU utilities/structures arising during construction of any facilities shown on these drawings.
18. The Contractor shall verify all quantities shown on the plans. If any discrepancies in quantities are found, the Contractor shall notify the Engineer of Record and LCU.
19. The Contractor shall replace all pavement, curbs, driveways, sidewalks, fences, etc., with the same type of material that was removed during construction or as directed by the Engineer. The Contractor shall restore all areas affected by the construction to its original condition, or better.
20. Within the FDOT and LCDOT Right-of-Way, all disturbed areas shall receive grassing (seeding) or sodding materials in accordance with FDOT specifications. Those areas that are classified as drainage ditches shall receive full solid sod.
21. All frames, covers valve boxes, meter boxes and manholes shall be adjusted to finished grade upon completion of paving or related construction. All valve pads shall be poured in place. No pre-formed valve pads will be allowed.
22. Appropriate turbidity control devices (e.g. silt fences, hay bales) will be utilized during all phases of installation and grading. Contractor is responsible for submitting the Notice of Intent and Notice of Termination to the EPA in compliance with Lee County's NPDES permit.
23. Contractor is responsible for developing and maintaining an effective Storm Water Pollution Prevention Plan.
24. LCU requires 30" of cover for all underground piping except under pavement, where 36" of cover is required. If LCU required cover cannot be maintained, the Contractor shall provide other methods of construction or pipe protection, which shall first be approved by LCU and the Engineer, at no additional cost to the County. If state agencies require additional cover, meeting the requirements shall be done at no additional cost to the County.
25. LCU requires there to be a minimum of ten (10) feet horizontal and 18" vertical separation between potable water & sanitary sewer mains. LCU also requires minimum of ten (10) feet horizontal separation between other public and/or private utilities, structure(s), building(s), wall(s), fountain(s), fence(s) and LCU infrastructure unless specifically approved by LCU.
26. LCU requires there to be a minimum of five (5) feet horizontal separation between LCU infrastructure and drainage infrastructure, mitered end sections, inlets, etc. LCU also requires minimum of five (5) feet horizontal separation between LCU infrastructure and all new light pole foundations.
27. The root ball of palm trees shall be a minimum of five (5) feet and the root ball of shade trees shall be a minimum of ten (10) feet from any existing or proposed LCU owned and maintained pipe/infrastructure.
28. As the work progresses the Contractor shall record all changes and deviations from the LCU Stamped/Approved Construction Plans. In addition, he shall record the exact location of all changes in vertical and horizontal alignment with coordinates with respect to the NAVD 1988 State Plane Florida West Coordinate System as well as all requirements set forth in the LCU Design Manual. This information is to be forwarded to the Engineer of Record who prepared, signed and sealed the Approved Construction Plans so that he can prepare 'Record Drawings' per the requirements set forth in the LCU Design Manual.
29. During the course of construction, take special care and provide adequate protection in order to minimize damage to vegetation, surfaced areas, and structures within the construction site and take full responsibility for the replacement or repair thereof. Should the removal of grass be required to facilitate the installation within the designated construction area, this work shall be done in cooperation with the County. Said valuable vegetation, removed or damaged, shall be replanted, if possible, or replaced by items of equal quality, and maintained until growth is re-established. Top soil damaged in the course of work shall be replaced in kind with suitable material, graded to match existing grade. Following construction completion, the work area shall be finish grade to elevations compatible with the adjacent surface, with grassing or hand raking required within developed areas.
30. Existing lawn surfaces damaged by construction shall be re-sodded. These areas shall be maintained until all work under this Contract has been completed.
31. Remove all construction material, excess excavation, buildings, equipment and other debris remaining on the job as a result of construction operations and shall render the site of the work in a neat and orderly condition.

BY		DESCRIPTION		DATE		NO.	
DESIGNED BY	DRAWN BY	CHECKED BY	PUD	PUD	PUD	PUD	PUD
GENERAL NOTES							
CONSTRUCTION PLANS FOR GATEWAY WRF SLUDGE LOADING AREA ROOF LEE COUNTY, FLORIDA				DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE			
DRMP ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS				Certificate of Authorization No. 2648 94-1 Lake Baldwin Lane • Orlando, Florida 32814 Phone: 407-896-0594 Fax: 407-896-4836 www.drmp.com			
DRMP, Inc.							
Patrick Day, P.E. State of Florida # 56709 PROJECT NO.: 19-0229.000							
SCALE: NONE							
DATE: SEPTEMBER, 2020							
DRAWING: C1.1							

BUILDING SPECIFICATIONS:

BUYER'S END RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN APPROPRIATE APPROVALS AND SECURE NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES AS REQUIRED, AND TO ADVISE / RELEASE / AUTHORIZE BUILDING MANUFACTURER TO BEGIN FABRICATION UPON RECEIVING SUCH.

BUILDING SPECIFICATIONS APPLY UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS, ALONG WITH THIRD PARTY FABRICATION STANDARDS, QUALITY CRITERIA, STANDARDS, PRACTICE, METHODS, AND TOLERANCES SHALL GOVERN THE WORK WITH ANY OTHER INTERPRETATIONS TO THE CONTRARY NOT WITHSTANDING. IT IS UNDERSTOOD BY BOTH PARTIES THAT THE CONTRACTOR IS RESPONSIBLE FOR CLARIFICATION OF INCLUSIONS OR EXCLUSIONS FROM THE ARCHITECTURAL PLANS AND/OR SPECIFICATIONS. IN CASE OF DISCREPANCIES BETWEEN THE BUILDING PLANS AND OTHER TRADES THE BUILDING PLANS SHALL GOVERN. (SECTION 3 AISC CODE OF STANDARD PRACTICES, 9TH EDITION)

APPROVAL OF BUILDING DRAWINGS AND CALCULATIONS INDICATES THAT THE BUILDING DRAWINGS HAVE BEEN CORRECTLY INTERPRETED AND APPLIED TO THE CONTRACT DOCUMENTS. THIS APPROVAL CONSTITUTES THE CONTRACTOR ACCEPTANCE OF THE BUILDING DESIGN CONCEPTS, ASSUMPTIONS, AND LOADING. (SECTION 4 AISC CODE)

ONCE THE CONTRACTOR HAS SIGNED APPROVAL PACKAGE FOR THE BUILDING THE PROJECT IS RELEASED FOR FABRICATION, AND CHANGES SHALL BE BILLED TO THE CONTRACTOR INCLUDING MATERIAL, ENGINEERING, AND OTHER COSTS AS PER THE TERMS AND CONDITIONS OF THE CONTRACT. AN ADDITIONAL FEE MAY BE CHARGED IF THE PROJECT MUST BE MOVED FROM THE FABRICATION AND SHIPPING SCHEDULE.

THE CONTRACTOR IS RESPONSIBLE FOR OVERALL PROJECT COORDINATION. ALL INTERFACE, COMPATIBILITY AND DESIGN CONSIDERATIONS CONCERNING ANY MATERIALS NOT SUPPLIED BY THE BUILDING MANUFACTURER ARE TO BE CONSIDERED COORDINATED BY THE CONTRACTOR. SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS MUST BE FURNISHED BEFORE RELEASE FOR FABRICATION OR BUILDING MANUFACTURER ASSUMPTIONS WILL GOVERN (AISC CODE OF STANDARD PRACTICE 9TH EDITION)

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT BUILDING PLANS COMPLY WITH THE APPLICABLE REQUIREMENT OF ANY GOVERNING BUILDING AUTHORITIES.

THE CONTRACTOR IS RESPONSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL IN ACCORDANCE WITH THE "FOR CONSTRUCTION" DRAWINGS ONLY. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION SHALL BE DETERMINED FURNISHED AND INSTALLED BY THE ERECTOR. NO ITEMS SHOULD BE PURCHASED FROM A PRELIMINARY SET OF DRAWINGS, INCLUDING ANCHOR BOLTS. USE ONLY FINAL "FOR CONSTRUCTION DRAWINGS" FOR THE USE. (SECTION 7 AISC CODE OF STANDARD PRACTICE, 9TH EDITION)

THE BUILDING MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLT TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING, AND TENSION BUT IS NOT RESPONSIBLE FOR THE TRANSFER OF ANCHOR BOLT FORCES TO THE CONCRETE OR THE ADEQUACY OF THE ANCHOR BOLT IN RELATION TO THE CONCRETE.

CONTRACTOR IS TO ASSURE THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE.

IT IS RECOMMENDED THAT A PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES DESIGN THE ANCHORAGE AND FOUNDATION OF THE BUILDING. (SECTION A10 1996 MBMA LOW RISE BUILDING SYSTEMS MANUAL)

NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTIONS OF MINOR MISFITS BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING AND THE DRAWING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN MEMBER CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO BUILDING MANUFACTURER AND CONTRACTOR TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTN TO BE USED BY OTHERS. (SECTION 7 AISC CODE OF STANDARD PRACTICE, 9TH EDITION) NEITHER THE ERECTOR NOR THE CONTRACTOR WILL CUT, DRILL, OR OTHERWISE ALTER HIS WORK, OR THE WORK OF OTHER TRADES TO ACCOMMODATE OTHER TRADES UNLESS SUCH WORK IS CLEARLY SPECIFIED, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING COMPLETE INFORMATION AS TO MATERIALS, SIZE, LOCATION, AND NUMBER OF ALTERATIONS PRIOR TO PREPARATION OF SHOP DRAWINGS. (SECTION 7 AISC CODE OF STANDARD PRACTICE, 9TH EDITION)

THE BUILDING MANUFACTURER HAS A COMMITMENT TO DESIGN QUALITY BUILDINGS THAT CAN BE SAFELY ERECTED. HOWEVER, THE SAFETY COMMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE BUILDING MANUFACTURER. IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES ARE THE TOP PRIORITY OF ANY JOB SITE. LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP ENSURE WORKERS SAFETY. MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. ALL EMPLOYEES SHOULD KNOW EMERGENCY PROCEDURES, DAILY MEETINGS, HIGHLIGHTING SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL, AND SAFETY NETS WHERE APPLICABLE ARE RECOMMENDED.

DO NOT CUT, REMOVE, OR RELOCATE GIRTS OR X BRACING. NO ADDITIONAL OPENINGS ALLOWED WITHOUT WRITTEN APPROVAL FROM THE STEEL BUILDING MANUFACTURER.

HARDWARE SUCH AS WINDOWS, OVERHEAD DOORS, AND ASSOCIATED ATTACHMENTS THAT ARE SUPPLIED BY OTHERS MUST HAVE THE SAME LEVEL OF WIND RESISTANCE AS WALL PANELS.

WORKERS SHALL NOT HAVE THEIR WEIGHT ON FRAMES OR INDIVIDUAL COLUMNS UNTIL THEY HAVE BEEN SECURE WITH GIRTS AND CROSS BRACING.

NOTES:

APPROVAL DRAWINGS: APPROVAL ORDERS MUST BE RELEASED FOR FABRICATION WITHIN FIVE CALENDAR DAYS AFTER THE SUBMITTAL DRAWINGS ARE ISSUED OR THEY WILL BE SUBJECT TO ANY CURRENT PRICE INCREASES. SPECIAL ATTENTION SHOULD BE GIVEN IN APPROVING DIMENSIONS AND / OR DETAILS.

BUILDERS RESPONSIBILITIES

THE CONTRACTOR / BUILDER MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED. APPROVAL OF BUILDING MANUFACTURER DRAWINGS AND CALCULATIONS INDICATES THAT THE BUILDING MANUFACTURER HAS CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECTION 4.2.1 AISC CODE OF STANDARD PRACTICE, 9TH EDITION) WHERE DISCREPANCIES EXIST BETWEEN THE BUILDING PLANS AND THE PLANS OF OTHER TRADES, THE STRUCTURAL PLANS FOR THE BUILDING WILL GOVERN. (SECTION 33 AISC CODE OF STANDARD PRACTICE, 9TH EDITION) DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE (WHICH ARE NOT DESIGNED BY THE BUILDING MANUFACTURER) ARE THE RESPONSIBILITY OF THE BUILDER AND ENGINEERS OTHER THAN THE BUILDING MANUFACTURERS UNLESS SPECIFICALLY INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE BUILDING MANUFACTURERS "CONSTRUCTION DRAWINGS".

BUILDING MANUFACTURER PRODUCT SPECIFICATIONS APPLY AND UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS, FABRICATION STANDARDS, QUALITY CRITERIA, AND TOLERANCES WILL GOVERN THE WORK. IN CASE OF DISCREPANCIES BETWEEN THE BUILDING MANUFACTURER STRUCTURAL PLANS AND PLANS FOR OTHER TRADES. THE STRUCTURAL PLANS SHALL GOVERN.

ONCE THE CONTRACTOR HAS SIGNED THE BUILDING MANUFACTURER'S APPROVAL PACKAGE, CHANGES FROM THE PURCHASE ORDER BY THE BUILDER WILL BE BILLED TO THE CONTRACTOR FOR MATERIAL, ENGINEERING, AND HANDLING FEES. SUCH CHANGES MAY CAUSE THE PROJECT TO BE MOVED FROM THE FABRICATION AND OR SHIPPING SCHEDULE. A PENALTY FEE MAY BE CHARGED IF THE PROJECT MUST BE MOVED FROM THE FABRICATION AND / OR SHIPPING SCHEDULE.

THE CONTRACTOR IS RESPONSIBLE FOR THE OVERALL PROJECT CONDITION. ALL INTERFACE AND COMPATIBILITY CONCERNING ANY MATERIALS NOT FURNISHED BY THE MANUFACTURER ARE TO BE CONSIDERED AND COORDINATED BY THE CONTRACTOR.

THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL OTHER PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITY. SUPPLYING DRAWINGS BY THE BUILDING MANUFACTURER DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BUILDING MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION COMPLIANCE WITH ALL REQUIREMENTS OF THE PURCHASE ORDER.

THE CONTRACTOR IS RESPONSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL BUILDING COMPONENTS IN ACCORDANCE WITH THE BUILDING MANUFACTURER "FOR CONSTRUCTION" DRAWINGS. TEMPORARY SUPPORTS OR BRACING REQUIRED FOR THE BUILDING ERECTION WILL BE THE RESPONSIBILITY OF THE ERECTOR TO DETERMINE, FURNISH, AND INSTALL. THE BUILDING MANUFACTURER IS NOT REQUIRED TO WARRANT STRUCTURAL INTEGRITY OF ANY COMPONENTS FIELD MODIFIED OR DESIGNED AND FABRICATED BY OTHERS.

SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER, WHICH MEETS THE END PERFORMANCE OF FEDERAL SPECIFICATION TT-P-636 AND IS RED OXIDE COLOR. THIS PAINT IS NOT INTENDED FOR LONG-TERM EXPOSURE TO THE ELEMENTS. THE BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR ANY DETERIORATION OF THE SHOP PRIMER PAINT BECAUSE OF IMPROPER HANDLING AND / OR STORAGE. THE BUILDING MANUFACTURER SHALL NOT BE RESPONSIBLE FOR ANY FIELD APPLIED PAINT AND / OR COATINGS. (SECTION 6.5 AISC CODE OF STANDARD PRACTICE 9TH EDITION) NORMAL THICKNESS OF PRIMER SHALL BE 1 MIL UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.

GALVANIZED OR SPECIAL COATINGS - SEE CONTRACT DOCUMENTS

ALL BOLTS ARE 0' 0'-1/2" DIA. X 0'-1" A307 EXCEPT:

- A) EAVE STRUT CONNECTION - 1/2" X 0'-1 1/2" A307
- B) END WALL RAFTER SPLICE - 5/8" X 0' 1-3/4" A325-N
- C) END WALL COL. / RAFT CONNECTIONS - SEE CROSS SECTION

A325 BOLT TIGHTENING REQUIREMENTS

ALL HIGH STRENGTH BOLTS ARE A325-N

STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE TURN OF THE NUT METHOD IN ACCORDANCE WITH THE 9TH EDITION AISC "SPECIFICATION FOR STRUCTURAL JOINTS" USING ASTM A325 OR A490 BOLTS. WHEN SPECIFICALLY REQUIRED A325-N BOLTS ARE SUPPLIED WITHOUT WASHER UNLESS NOTED ON THE DRAWINGS AS PROVIDED BY BUILDING MANUFACTURER.

ALL BOLTED CONNECTIONS UNLESS NOTED ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH THREADS NOT EXCLUDED FROM THE SHEAR PLANE.

CLOSURE STRIPS ARE FURNISHED ONLY IF NOTED ON SHIPPING DOCUMENTS

INSIDE - UNDER ROOF PANELS AT EAVE

OUTSIDE - BETWEEN END WALL PANELS AND RAKE TRIM

UNDER CONTINUOUS RIDGE VENT SKIRTS

ERECTION NOTE: ALL BRACING STRAPPING & BRIDGING SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE. IF ADDITIONAL BRACING IS REQUIRED FOR STABILITY DURING ERECTION, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO DETERMINE THE AMOUNT OF SUCH BRACING AND TO PROCURE AND INSTALL AS NEEDED.

ERECTING AND UNLOADING TO BE DONE BY CONTRACTOR

SHORTAGES: ANY CLAIMS OR SHORTAGES BY THE CONTRACTOR MUST BE MADE TO THE MANUFACTURER WITHIN SEVEN DAYS AFTER DELIVERY OR SUCH CLAIMS SHALL BE CONSIDERED WAIVED BY THE CUSTOMER AND DISALLOWED.


CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)

CLAIMS FOR CORRECTION OF ALLEGED MISFITS WILL BE DISALLOWED UNLESS THE MANUFACTURER HAVE RECEIVED PRIOR NOTICE THEREOF AND ALLOWED REASONABLE INSPECTION OF SUCH MISFITS. THE CORRECTION OF MINOR MISFITS BY THE USE OF DRIFT PINS TO DRAW THE COMPONENTS INTO LINE, MODERATE AMOUNTS OF REAMING, CHIPPING, SHIMMING AND CUTTING AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND ARE NOT SUBJECT TO CLAIM. NO PART OF THE BUILDING MAY BE RETURNED FOR ALLEGED MISFITIS WITHOUT THE PRIOR APPROVAL OF THE BUILDING MANUFACTURER.

BUILDING SPECIFICATIONS: THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. THE BUILDING MANUFACTURER WILL NOT ASSUME RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

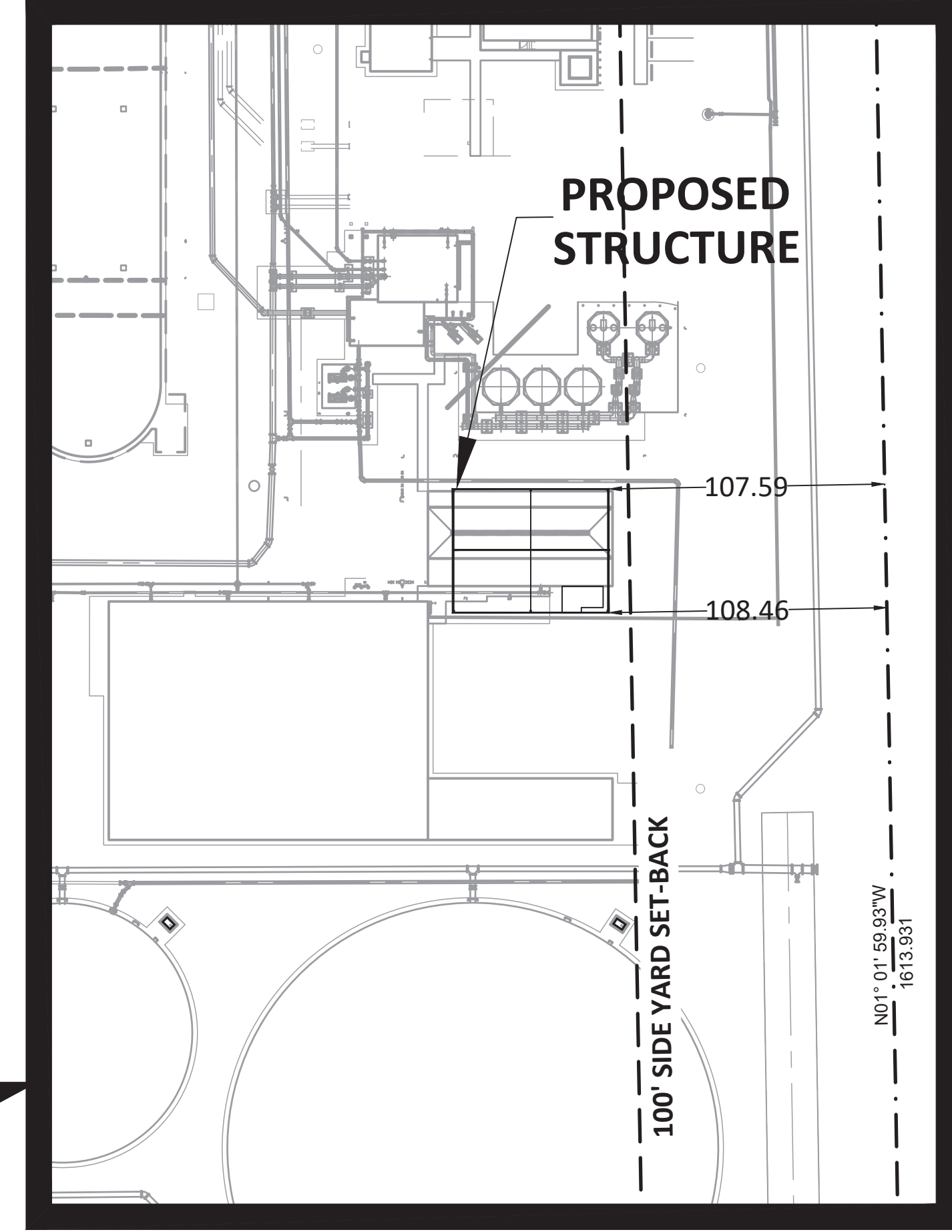
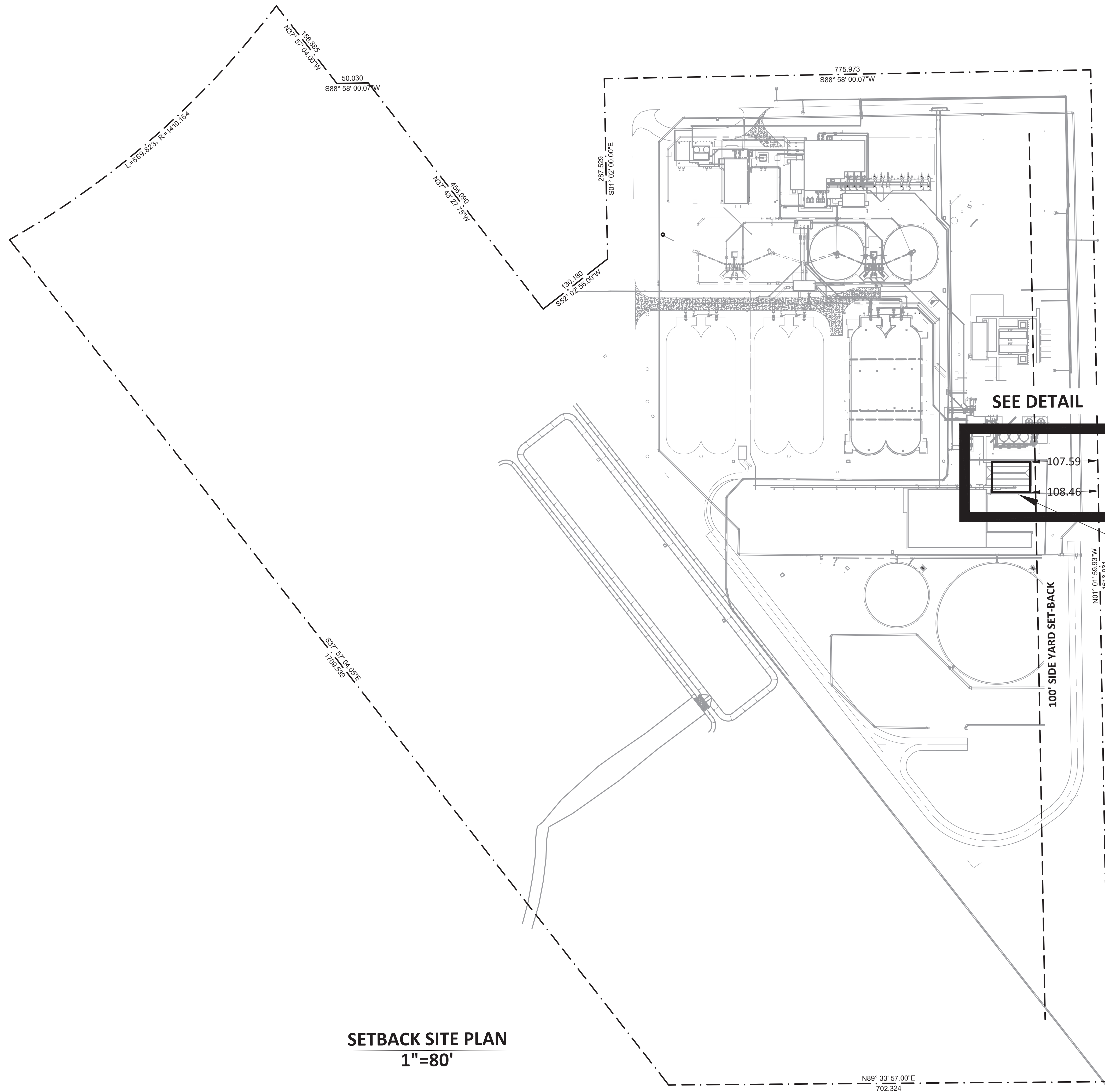
INSTALL THIS BUILDING AND ALL ITS PARTS PER THESE DRAWINGS. NO CHANGES SHOULD BE MADE TO THIS BUILDING SYSTEM UNLESS APPROVED IN WRITING BY THE BUILDING MANUFACTURER ENGINEERS. UNAPPROVED CHANGES COULD RESULT IN UNSAFE BUILDING DESIGN AND COULD ENDANGER PUBLIC SAFETY. IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSIVE EFFECTS ON THE GALVALUME ALLOY COATING WHEN THEY ARE IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

WARNING:

R E V I S I O N S	BY	DESCRIPTION	DATE	NO.	RLH	DESIGNED BY	RLH	PLO	PJO
	MAT	ADD BUILDING SPECIFICATIONS	11/20	A		DRAWN BY		CHECKED BY	APPROVED BY
BUILDING SPECIFICATIONS									
CONSTRUCTION PLANS FOR GATEWAY WRF SLUDGE LOADING AREA ROOF									
LEE COUNTY, FLORIDA									
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE									
 DRMP, Inc.		Certificate of Authorization No. 2848 941 Lake Baldwin Lane - Orlando, Florida 32814 Phone: 407.896.0594 Fax: 407.896.4836 www.drmp.com							
		Patrick Day, P.E. State of Florida # 56709							
PROJECT NO.:		19-0229.000							
SCALE:		N/A							
DATE:		NOVEMBER, 2020							
DRAWING:		C1.2							

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SETBACK SITE PLAN 1"=80'



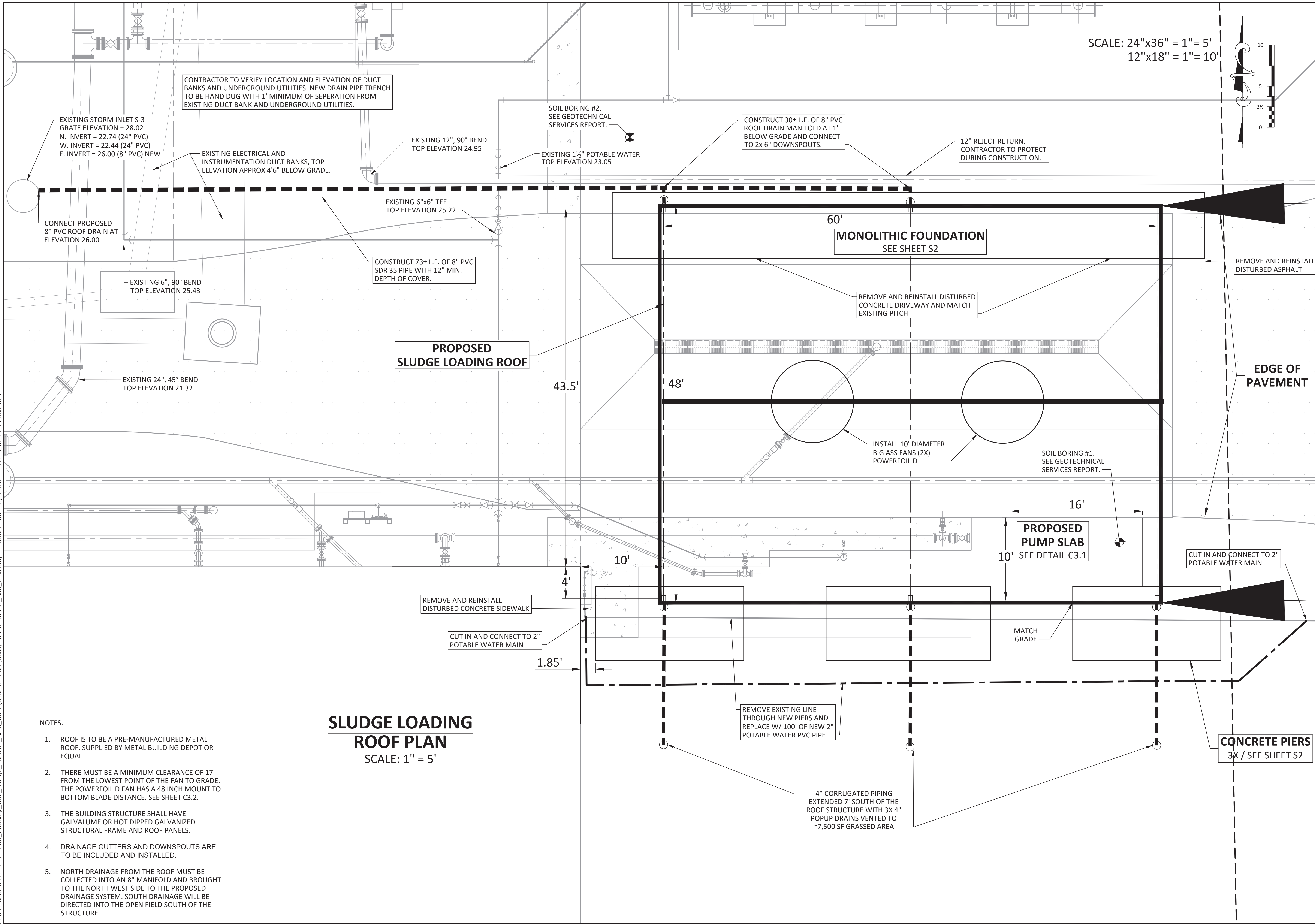
DETAIL
1"=50'

PROPOSED
STRUCTURE

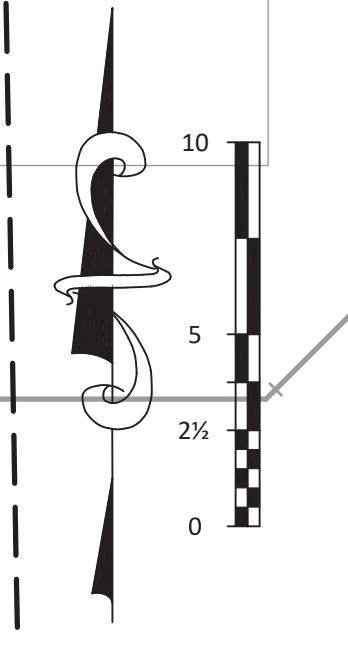
SEE DETAIL

CONSTRUCTION PLANS FOR GATEWAY WRF SLUDGE LOADING AREA ROOF LEE COUNTY, FLORIDA		DO NOT SCALE THIS DRAWING — DIMENSIONS AND NOTES TAKE PREFERENCE	
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Patrick Day, P.E. State of Florida # 56709 PROJECT NO.: 19-0229.000			
SCALE: NTS			
DATE: NOVEMBER, 2020			
DRAWING: C2.0			
DESIGNED BY DPC	DRAWN BY DPC	CHECKED BY PJD	APPROVED BY PJD
NO. A	DATE 11/20	DESCRIPTION ADD SITE PLAN WITH SET BACK	
REVISIONS		BY MAT	DATE

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SCALE: 24"x36" = 1" = 5'
12"x18" = 1" = 10'



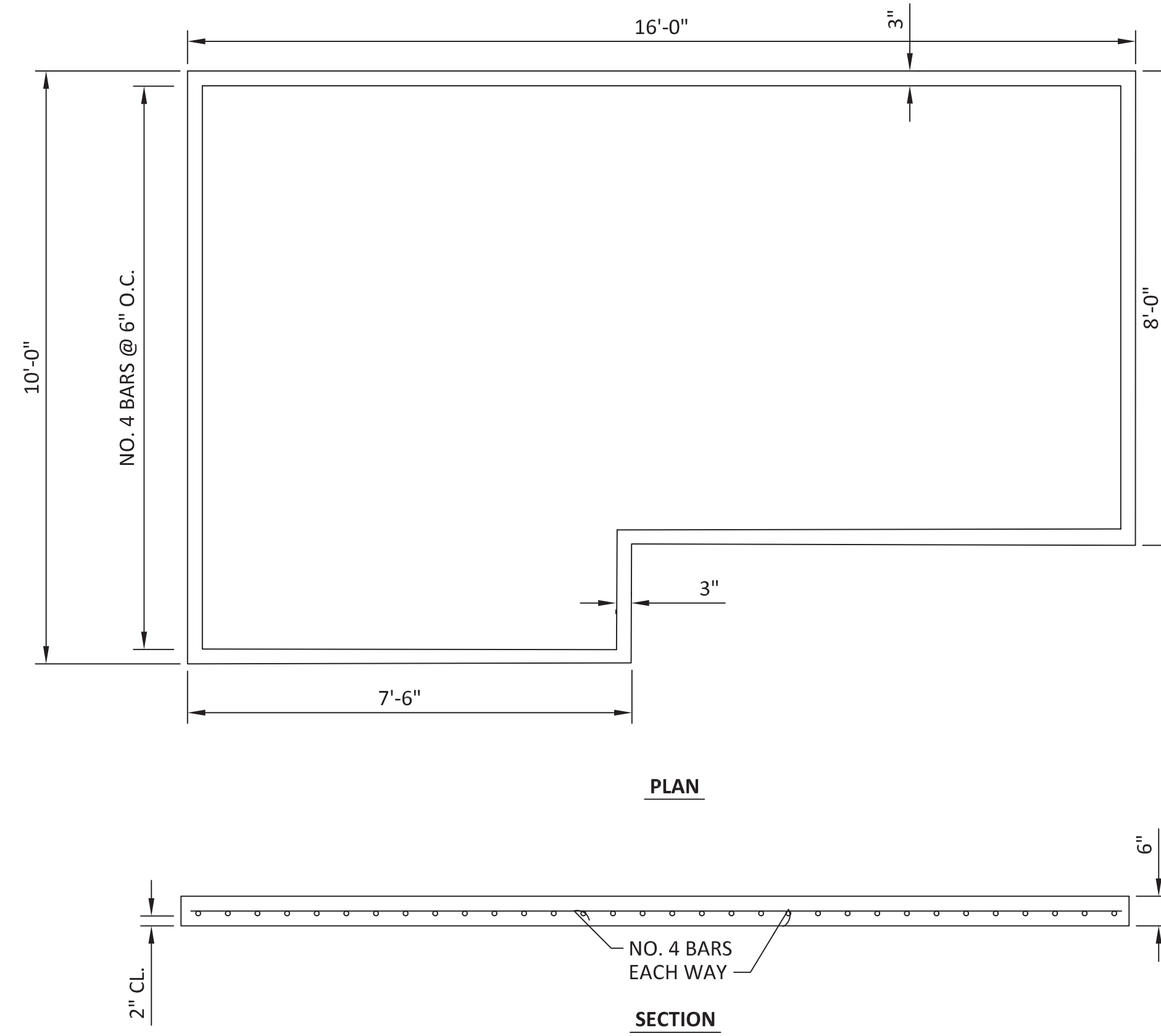
**SLUDGE LOADING
ROOF PLAN**
SCALE: 1" = 5'

NOTES:

1. ROOF IS TO BE A PRE-MANUFACTURED METAL ROOF, SUPPLIED BY METAL BUILDING DEPOT OR EQUAL.
2. THERE MUST BE A MINIMUM CLEARANCE OF 17' FROM THE LOWEST POINT OF THE FAN TO GRADE. THE POWERFOIL D FAN HAS A 48 INCH MOUNT TO BOTTOM BLADE DISTANCE. SEE SHEET C3.2.
3. THE BUILDING STRUCTURE SHALL HAVE GALVALUME OR HOT DIPPED GALVANIZED STRUCTURAL FRAME AND ROOF PANELS.
4. DRAINAGE GUTTERS AND DOWNSPOUTS ARE TO BE INCLUDED AND INSTALLED.
5. NORTH DRAINAGE FROM THE ROOF MUST BE COLLECTED INTO AN 8" MANIFOLD AND BROUGHT TO THE NORTH WEST SIDE TO THE PROPOSED DRAINAGE SYSTEM. SOUTH DRAINAGE WILL BE DIRECTED INTO THE OPEN FIELD SOUTH OF THE STRUCTURE.

REVISIONS	
NO.	DESCRIPTION
DESIGNED BY	DPC
DRAWN BY	DPC
CHECKED BY	PJD
APPROVED BY	PJD
CONSTRUCTION PLANS FOR	
GATEWAY WRF	
SLUDGE LOADING	
AREA ROOF	
LEE COUNTY, FLORIDA	
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE	
Certificate of Authorization No. 2648 941 Lake Baldwin Lane - Orlando, Florida 32814 Phone: 407.896.0594 Fax: 407.896.4836 www.drmp.com	
Patrick Day, P.E. State of Florida # 56709 PROJECT NO.: 19-0229.000 SCALE: 1" = 5' DATE: NOVEMBER, 2020 DRAWING: C3.0	

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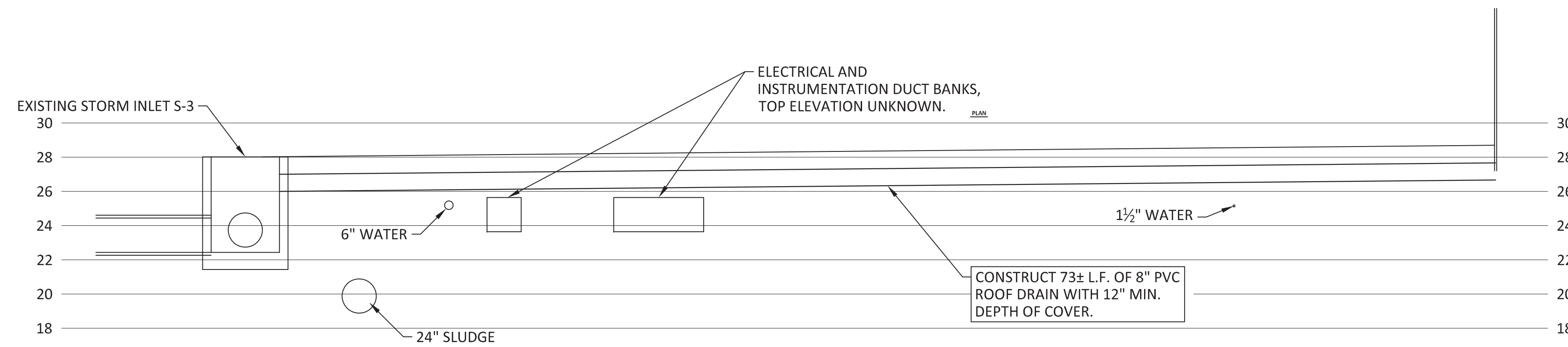


PROPOSED PUMP SLAB

SCALE: 1/2" = 1'

NOTES:

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60
2. PROVIDE 2" MINIMUM COVER



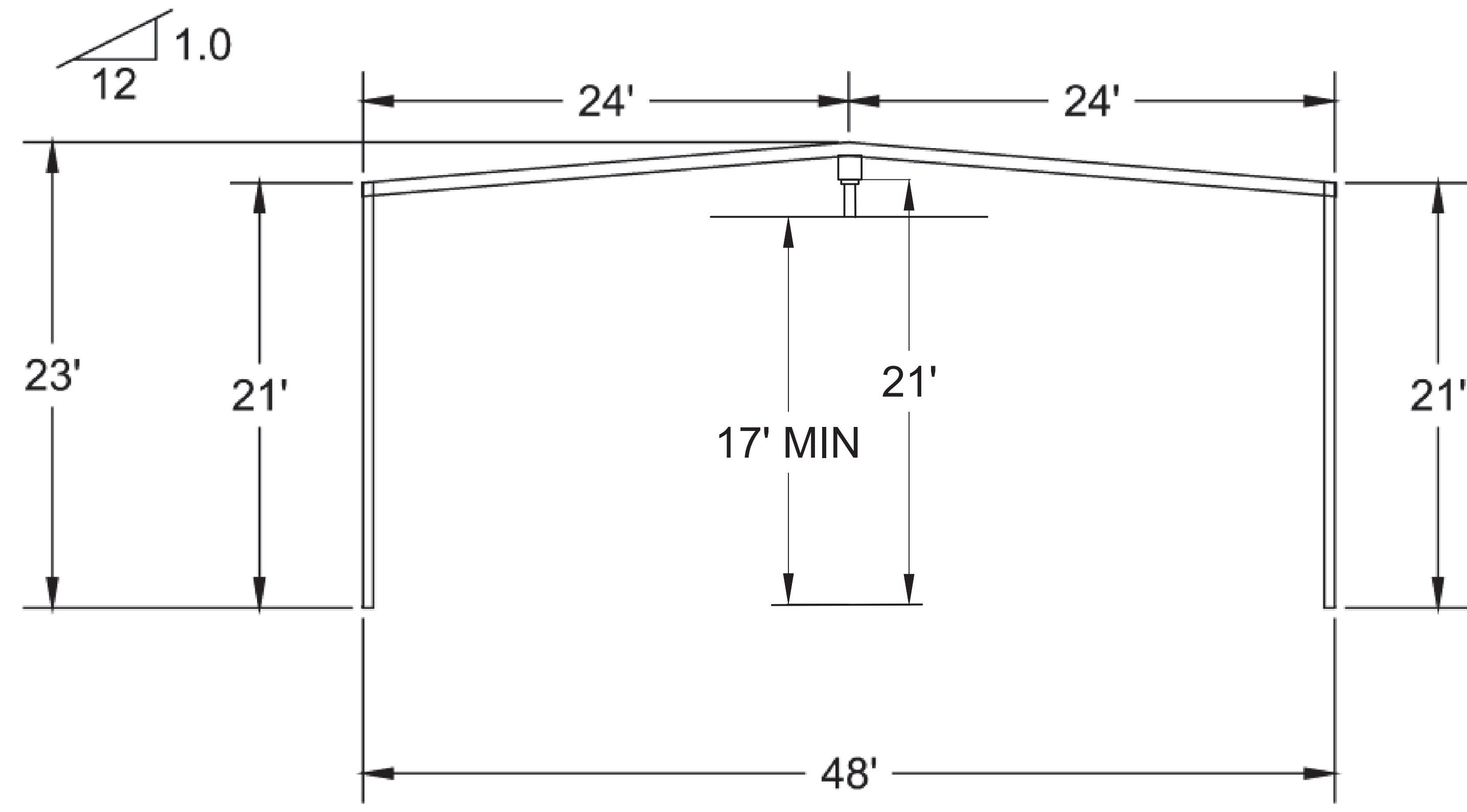
SLUDGE LOADING ROOF DRAINAGE PROFILE

SCALE: 1" = 5'

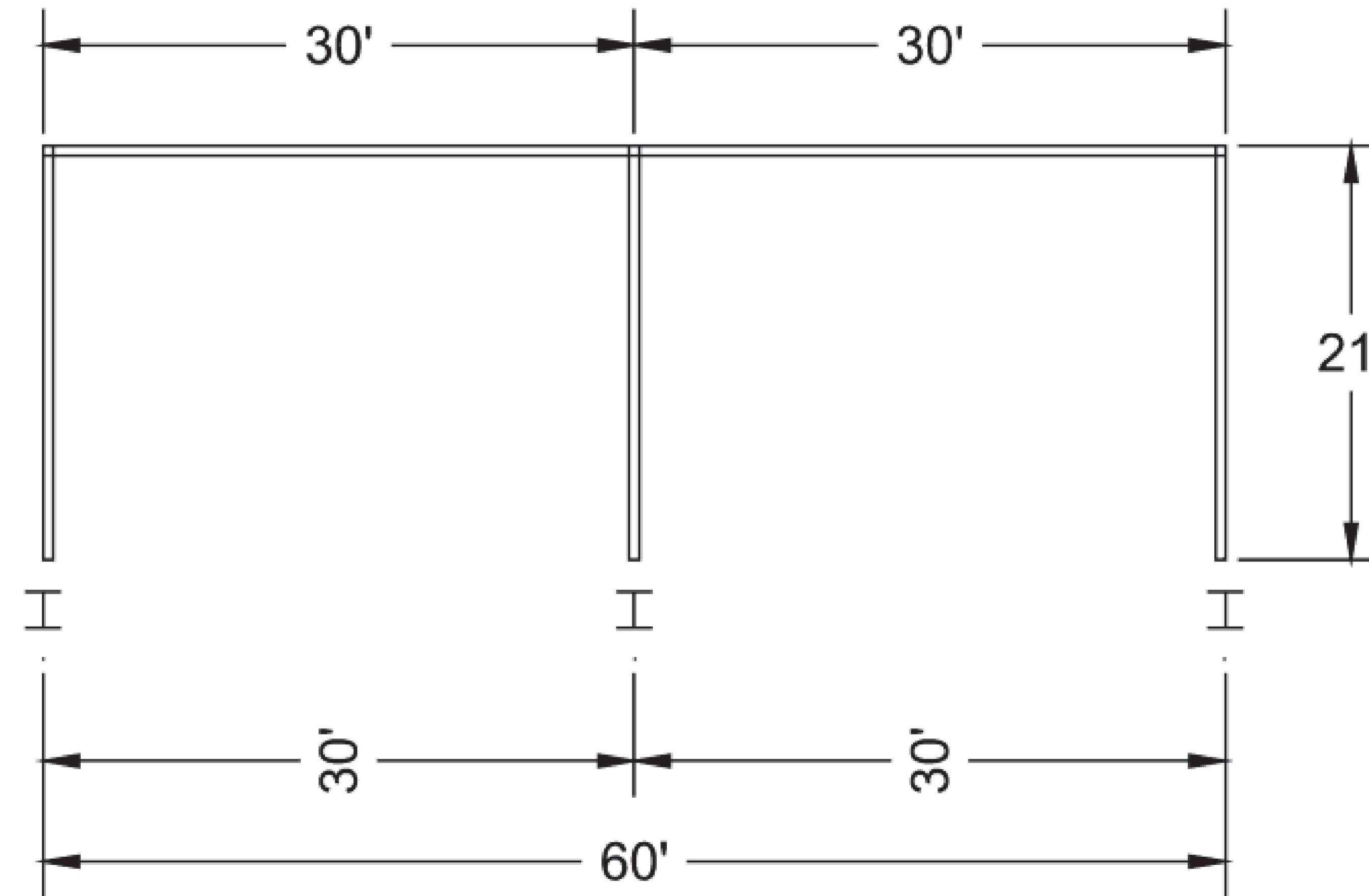
NOTES:

1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF DUCT BANKS AND UNDERGROUND UTILITIES. NEW DRAIN PIPE TRENCH TO BE HAND DUG WITH 1' MINIMUM OF SEPARATION FROM EXISTING DUCT BANK AND UNDERGROUND UTILITIES.

DESIGNED BY		DFC	R E V I S I O N S	
DRAWN BY		DFC	NO.	DESCRIPTION
CHECKED BY		PJD	DATE	
APPROVED BY		PJD		
CONSTRUCTION PLANS FOR		SLUDGE LOADING ROOF DRAINAGE PROFILE & CONCRETE PAD		
GATEWAY WRF				
SLUDGE LOADING AREA ROOF				
LEE COUNTY, FLORIDA				
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE				
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Patrick Day, P.E. State of Florida # 56709				
PROJECT NO.: 19-0229.000				
SCALE: AS SHOWN				
DATE: SEPTEMBER, 2020				
DRAWING: C3.1				



PROPOSED BUILDING (EAST) FRONT PROFILE
NOT TO SCALE



PROPOSED BUILDING (SOUTH) SIDE PROFILE
NOT TO SCALE

DESIGN LOADS

BUILDING CODE:	FBC 17
ROOF DEAD LOAD:	2.5
COLLATERAL LOAD:	0.5
LIVE LOAD:	20.0
SNOW LOAD:	0.0
WIND SPEED:	156
WIND EXPOSURE:	B
IMP. WIND: 1	IMP. SEISMIC : 1
SEISMIC ZONE:	0
SEISMIC COEFF.:	0.131

PROJECT DESCRIPTION

NOMINAL WIDTH:	48'
NOMINAL LENGTH:	60'
B.S.W. HEIGHT:	21'
F.S.W. HEIGHT:	21'
ROOF SLOPE:	1.0 : 12

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R E V I S I O N S	
NO.	DESCRIPTION

DESIGNED BY	DPC
DRAWN BY	DPC
CHECKED BY	PJD
APPROVED BY	PJD

CONSTRUCTION PLANS FOR
**GATEWAY WRF
SLUDGE LOADING
AREA ROOF**
LEE COUNTY, FLORIDA
DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

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DRMP, Inc.

Patrick Day, P.E.
State of Florida # 56709
PROJECT NO.:
19-0229-000
SCALE:
NTS
DATE:
NOVEMBER, 2020
DRAWING:
C3.2

STRUCTURAL ABBREVIATIONS

A	A.B. ANCHOR BOLT ABV ABOVE A.C.I. AMERICAN CONCRETE INSTITUTE ADD'L ADDITIONAL A.F.F. ABOVE FINISH FLOOR AGGR AGGREGATE A.I.S.C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION A.I.S.I. AMERICAN IRON AND STEEL INSTITUTE AL ALUMINUM ALT ALTERNATE ARCH ARCHITECT(URAL) ASPH ASPHALT A.S.T.M. AMERICAN SOCIETY OF TESTING MATERIALS A.W.S. AMERICAN WELDING SOCIETY	L	LDG LENGTH L.G. LANDING L.S. LONG L.L. LIVE LOAD LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LNTL LINTEL L.S.H. LONG SLOTTED HOLES LONG LONGITUDINAL L.P. LOW POINT L.V.L. LAMINATED VENEER LUMBER
B	B/B BOTTOM OF BOND BEAM BIT BITUMINOUS BLDG. BUILDING BLW BELOW BM. BEAM BOT BOTTOM B.P. BASE PLATE BRDG BRIDGING BRG BEARING BRK BRICK B.S. BOTH SIDES BTWN BETWEEN B.U. BUILT UP	M	MAS MASONRY MAX MAXIMUM M.B. MASONRY BEAM MBM METAL BUILDING MANUFACTURER M.C. MOMENT CONNECTION M.C.J. MASONRY CONTROL JOINT MECH MECHANICAL MEZZ MEZZANINE MFR MANUFACTURE(R) MIN MINIMUM ML MICROLAM MOM MOMENT M.O. MASONRY OPENING M.S. METAL STUD MTL METAL
C	C/C CENTER TO CENTER C.B. CONCRETE BEAM CANT CANTILEVER C.C. CONCRETE COLUMN C.I.P. CAST IN PLACE C.J. CONSTRUCTION/CONTROL JOINT C OR CL CENTERLINE CLR CLEAR(ANCE) C.M. CONCRETE MASONRY C.M.U. CONCRETE MASONRY UNIT COL COLUMN COORD COORDINATE CONC CONCRETE CONN CONNECTION CONT CONTINUOUS CONTR CONTRACTOR CONST CONSTRUCTION CSK COUNTERSINK CS.J CONSTRUCTION JOINT CTR CENTER CTRD CENTERED	N	N.S. NEAR SIDE NTS NOT TO SCALE
D	DBL DOUBLE D.L. DEAD LOAD DEPT DEPARTMENT DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DIST DISTANCE DN. DOWN DTL DETAIL DWG DRAWING DWL DOWEL	O	OA. OVERALL O.B. OVER BUILT O.C. ON CENTER O.D. OUTSIDE DIAMETER O.F. OUTSIDE FACE OPNG OPENING OPP OPPOSITE
E	EA. EACH E.F. EACH END E.F. EACH FACE E.J. EXPANSION JOINT ENG ENGINEER EL. ELEVATION EQ. EQUAL EQ. SP. EQUAL SPACE(S) (ING) E.S. EACH SIDE E.W. EACH WAY EXT EXTERIOR	P	P.A.F. POWDER ACTUATED FASTENER PC PRECAST PERP PERPENDICULAR PE PRE-ENGINEERED PENN PENETRATION PERIM PERIMETER P OR PL PLY PLY PLYWOOD P.L.F. POUNDS PER LINEAL FOOT PNL PANEL PREMANUF PRE-MANUFACTURED PREFAB PRE-FABRICATED P.S.F. POUNDS PER SQUARE FOOT P.S.I. POUNDS PER SQUARE INCH P.S.L. PARALLEL STRAND LUMBER PTN PARTITION PT. PRESSURE TREATED
F	F/ FACE OF F.D. FLOOR DRAIN F.F. FINISH FLOOR FND FOUNDATION FIN FINISH F.G. FINISH GRADE FLR FLOOR FLG FLANGE F.S. FAR SIDE FT. FOOT FTG FOOTING	R	R. RADIUS REF REFERENCE REIN(F) REINFORCE(D) (ING) REQ REQUIRE REQD REQUIRED REV REVIEWED RF ROOF RTN RETURN RW RETAINING WALL
G	GA. GAGE OR GAUGE GALV GALVANIZE G.B. GRADE BEAM G.C. GENERAL CONTRACTOR GLB GLULAM BEAM GR. GRADE	S	SCH SCHEDULE S.E. SLAB EDGE SECT SECTION S.F. STEP FOOTING SHT SHEET SIM SIMILAR S.J. SAWCUT JOINT SJI STEEL JOIST INSTITUTE SL. SLOPE SP. SPACE(S) SPECS SPECIFICATIONS SQ. SQUARE S.S. STAINLESS STEEL STD STANDARD STL STEEL STR STRENGTH STR'L STRUCTURAL S.W. SHEAR WALL SYMM SYMMETRICAL S.P. SOUTHERN PINE S.P.F. SPRUCE PINE FIR
H	H.C. HOLLOW CORE HK HOOK H/RIZ HORIZONTAL H.P. HIGH POINT H.S. HEADED STUD HT HEIGHT	I	I.B. TIE BEAM T&B TOP & BOTTOM TDS TURN DOWN SLAB TEMP TEMPERATURE THD THREADED THK THICK THNS THICKENED SLAB TOPG TOPPING TYP. TYPICAL T/ TOP OF TRANS TRANSVERSE
I	I.D. INSIDE DIAMTER I.F. INSIDE FACE INT INTERIOR	U	UNO UNLESS NOTED OTHERWISE
J	JST JOIST JT JOINT	V	VERT VERTICAL
K	K. KIP K.O. KNOCK OUT KWY KEYWAY	W	WD WOOD W.F. WALL FOOTING W.F. WIDE FLANGE W.O. WINDOW OPENING (MASONRY) W.P. WORKING POINT WS. WATERSTOP WT WEIGHT WWF WELDED WIRE FABRIC W/ WITH

CODES AND STANDARDS

ALL WORK SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS. USE THE LATEST EDITION UNLESS NOTED OTHERWISE.

- FLORIDA BUILDING CODE - 2017
- "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" - ASCE 7-10.
- "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318-14.
- "ACI MANUAL OF CONCRETE PRACTICE" - PARTS 1 THROUGH 5 - LATEST EDITION.

GENERAL CONDITIONS

- IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DRAWINGS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENT MUST GOVERN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE CONSTRUCTION SITE.
- THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- THE OWNER WILL ENGAGE AN APPROVED TESTING AGENCY TO PROVIDE SERVICES AS INDICATED BELOW. SUBMIT REPORTS TO STRUCTURAL ENGINEER AND ARCHITECT.
 - TEST CONCRETE IN ACCORDANCE WITH ASTM C172 AND C31. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS. PROVIDE (1) 14 DAY BREAK AND MINIMUM (2) 28 DAY BREAKS.
 - TEST SOIL COMPACTION PER LATEST GEOTECHNICAL REPORT. (U.N.O.)
 - VISUALLY INSPECT FIELD WELDS, BOLTED CONNECTIONS AND OTHER STRUCTURAL STEEL CONNECTIONS.
- SITE VISITS WILL BE PROVIDED BY THE ENGINEER OF RECORD DURING CONSTRUCTION. CONTRACTOR MUST PROVIDE CONSTRUCTION SCHEDULE IN ADVANCE FOR APPROPRIATE TIME FOR VISITS TO SITE.

FOUNDATION NOTES

- FOUNDATION DESIGN IS BASED ON AN ALLOWABLE NET SOIL BEARING PRESSURE OF 2500 PSF. ALLOWABLE SOIL BEARING PRESSURE IS BASED ON THE GEOTECHNICAL ENGINEERING SERVICES REPORT PROVIDED BY VELOCITY ENGINEERING SERVICES, DATED JUNE 6, 2019. VELOCITY PROJECT NUMBER: 18-368.
- ALL REQUIREMENTS FOR SITE PREPARATION AND SOIL COMPACTION SPECIFIED IN THE SOILS REPORT SHALL BE FOLLOWED UNLESS ADDITIONAL MORE STRINGENT REQUIREMENTS ARE SPECIFIED. A CERTIFIED TESTING AGENCY SHALL PERFORM SOIL DENSITY TESTS TO ENSURE CONFORMANCE WITH THE GEOTECHNICAL REPORT. SUBMIT ALL TEST RESULTS TO THE PROJECT ARCHITECT AND ENGINEER.
- CONTRACTOR IN CONJUNCTION WITH PROJECT GEOTECHNICAL ENGINEER SHALL VERIFY EXISTING FIELD CONDITIONS DURING EXCAVATION THAT MAY AFFECT THE ALLOWABLE BEARING PRESSURE AND OR THE INSTALLATION OF THE FOUNDATION SYSTEM PRIOR TO STARTING WORK.
- ALL FOOTINGS SHALL BE CENTERED UNDER THE COLUMN OR WALL ABOVE UNLESS NOTED OTHERWISE.
- CONCRETE FOR THE FOUNDATIONS SHALL BE PLACED WITHIN 24 HOURS OF THE SUB GRADE APPROVAL BY THE PROJECT GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE.

CAST-IN-PLACE CONCRETE NOTES

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI 301, LATEST EDITION.
- ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

PLACEMENT	MINIMUM STRENGTH	MAX W/C RATIO
FOOTINGS	4000 PSI (U.N.O.)	0.52
REMAINING CONCRETE	5000 PSI	0.50
- ALL CONCRETE SHALL HAVE A SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 2 TO 4% AIR ENTRAINMENT. CONCRETE PLACED WITH A PUMP SHALL HAVE A SLUMP OF 5" PLUS OR MINUS 1". BUILDER MAY ELECT TO PROVIDE AN ALTERNATE MIX DESIGN WITH HIGH RANGE WATER REDUCER WITH A HIGHER SLUMP. SUBMIT ALTERNATE MIX DESIGN FOR REVIEW.
- CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 CHAPTER 3, METHOD 1 OR METHOD 2. SUBMIT BACKUP DATA AS REQUIRED BY CHAPTER 5 SECTION 5.3 OF THE LATEST EDITION OF ACI 318.
 - PLACING CONCRETE:
 - PLACE CONCRETE IN COMPLIANCE WITH ACI 304 AND AS HEREIN SPECIFIED.
 - BEFORE PLACING ANY CONCRETE IN FORMWORK, THOROUGHLY CLEAN AND WASH FORMS WITH WATER.
 - IF EARTH AT BOTTOM OF FORMS HAS DRIED-OUT, RE-WET SO THAT SOIL IS MOIST, BUT FREE FROM STANDING WATER AND MUD.
 - THOROUGHLY WET WOOD FORMS IMMEDIATELY BEFORE PLACING CONCRETE WHERE FORM COATINGS ARE NOT USED.
 - CONVEY CONCRETE FROM MIXER TO FINAL POSITION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF MATERIALS.
 - MAXIMUM HEIGHT OF CONCRETE FREE FALL IS 4 FT. (U.N.O.)
 - REGULATE RATE OF PLACEMENT SO CONCRETE SURFACE IS KEPT LEVEL THROUGHOUT, A MINIMUM BEING PERMITTED TO FLOW FROM ONE AREA TO ANOTHER. USE TREMIE HEADS SPACED AT APPROXIMATELY 10 FT. INTERVALS FOR PLACING CONCRETE IN WALLS. CONTROL RATE OF POUR CONSISTENT WITH FORM DESIGN.
 - DEPOSIT CONCRETE IN CONTINUOUS OPERATION UNTIL SECTION BEING PLACED HAS BEEN COMPLETED.
- ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A - 615 GRADE 60.
- ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315 LATEST EDITION, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, SLOPES, ETC. REQUIRED BY OTHER TRADES. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. COORDINATE BEARING CONDITIONS REQUIRED BY PRECAST CONCRETE WALL PANEL BEFORE PLACING CONCRETE.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC. AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
- WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS AND AT SLAB EDGES.
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING STEEL. SUPPORT ITEMS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
- CONTRACTOR SHALL PROVIDE 3/4" INCH CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.

SHOP DRAWINGS

- SHOP DRAWINGS SHALL BE SUBMITTED ON REPRODUCIBLE SEPIAS WITH TWO PRINTS ONLY. FOLLOW THE ARCHITECT'S INSTRUCTIONS FOR DISTRIBUTION.
- COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED IN WHOLE FOR EACH OF THE FOLLOWING CATEGORIES:
 - REINFORCING STEEL
 - CONCRETE MIX DESIGN
 - PREMANUF. FEMBS
 - REBAR AND OTHER CONCRETE REINFORCEMENT
 - MISCELLANEOUS
- DETAILER SHALL BE RESPONSIBLE FOR CHECKING ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENINGS AND EMBEDS, AFFECTING STRUCTURAL MEMBERS.
- SHOP DRAWINGS SHALL BEAR THE INITIALS OF THE DETAILER'S CHECKER AND BE APPROVED BY THE CONTRACTOR BEFORE SUBMITTAL TO ENGINEER.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
- IF REPRODUCTIONS OF THESE CONTRACT DRAWINGS ARE USED IN LIEU OF PREPARATION OF SHOP DRAWINGS, THE ARCHITECT'S, ENGINEER'S OR OTHER DESIGN CONSULTANT'S TITLE BLOCK SHALL BE REMOVED AND REPLACED WITH A TITLE BLOCK LISTING THE FOLLOWING ITEMS:
 - NAME, ADDRESS, AND TELEPHONE NUMBER OF CONTRACTOR, SUBCONTRACTOR, ETC. SUBMITTING SHOP DRAWINGS.
 - SHEET NUMBER.
 - DATE DRAWING PREPARED, THE INITIALS OF PERSON WHO PREPARED DRAWINGS, AND INITIALS OF PERSON CHECKING DRAWINGS.
- ANY REPRODUCTION OF THESE CONTRACT DRAWINGS NOT COMPLYING WITH THE ABOVE WILL BE REJECTED AND NOT REVIEWED.

WIND	ASCE 7-10
BASIC WIND SPEED (3 SEC. GUST)	160 MPH
BUILDING CATEGORY	II
IMPORTANCE FACTOR	I = 1.0
EXPOSURE C	OPEN
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
ROOF LIVE LOAD	20 PSF
ROOF SUPERIMPOSED DEAD LOAD	10 PSF

SUPERIMPOSED DEAD LOAD		ULTIMATE WIND LOAD	
ROOFING	3 PSF	BASIC WIND SPEED (3 SEC. GUST)	160 MPH
COLLATERAL	5.00 PSF	BUILDING CATEGORY	II
TOTAL ROOF DL	8 PSF	EXPOSURE	C
LIVE LOAD		BUILDING ENCLOSURE	
			OPEN
ROOF	20 PSF		
NOTES: SEE PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS FOR ADDITIONAL LOADING INFORMATION			

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DESCRIPTION	DATE	NO.

GENERAL NOTES

CONSTRUCTION PLANS FOR
GATEWAY ROOF COVER
STRUCTURE AND CONTAINMENT
CURB RETROFIT
LEE COUNTY, FLORIDA

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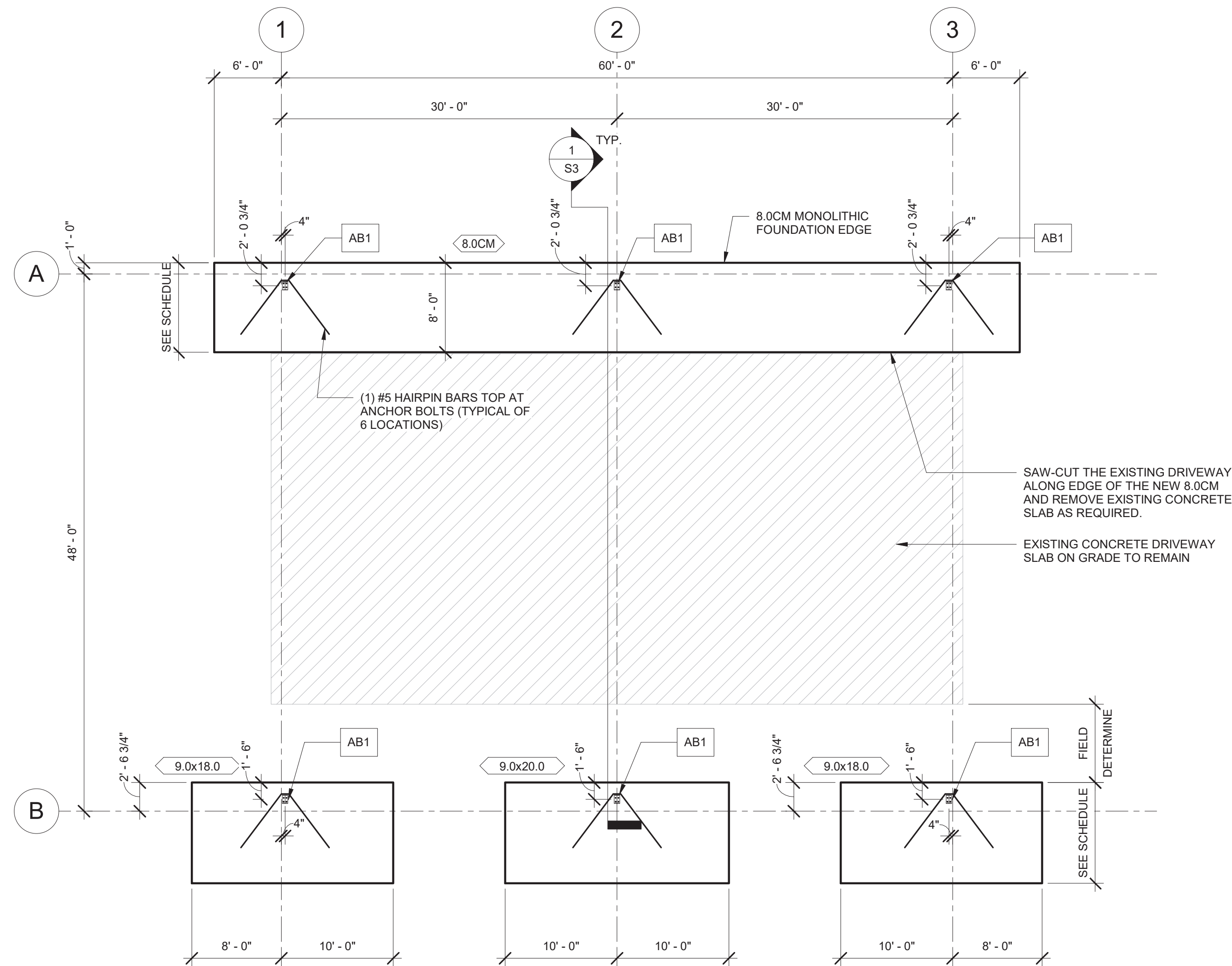


DRMP, Inc.

PROJECT NO.:	19-0229.000
SCALE:	As indicated
DATE:	03/06/2020
DRAWING:	S1

PROJECT NUMBER: 1019_16

Digitally signed by
Craig E McElroy
Date: 2020.11.11
16:44:12 -05'00'



1
S2
SLUDGE ROOF - FOUNDATION PLAN
1/8" = 1'-0"

LEGEND

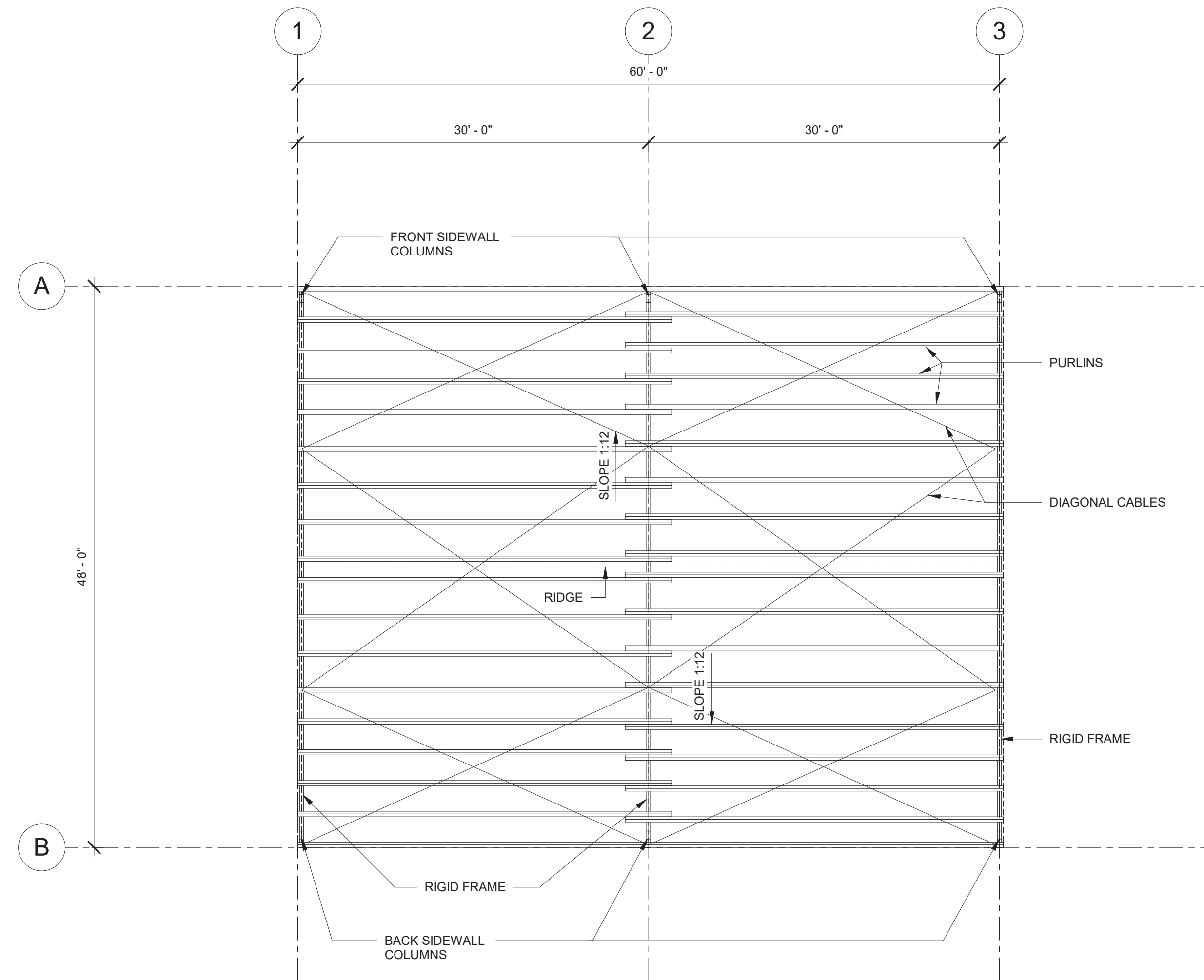
- AB#** INDICATES MINIMUM ANCHOR BOLT DESIGN AND LAYOUT. COORDINATE ANCHOR BOLT DESIGNS WITH APPROVED METAL BUILDING SHOP DRAWINGS.
- ##.#** INDICATES FOOTING TYPE. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCEMENT.

FOUNDATION PLAN NOTES:

1. SEE GENERAL NOTES ON DRAWING S1. GENERAL NOTES INCLUDE CODES AND STANDARDS, DESIGN LOADS AND OTHER REQUIREMENTS.
2. PREPARE THE SLAB SUB-BASE AND COMPACT THE SOIL PER THE PROJECT GEOTECHNICAL REPORT AND THE CIVIL DRAWINGS WHICHEVER REQUIREMENT IS MORE STRINGENT.
3. PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS MUST BE APPROVED BY McELROY ENGINEERING PRIOR TO CONSTRUCTION OF THE FOUNDATIONS.
4. FINISH GRADE IS AT ELEVATION 0'-0". THIS IS A REFERENCE ELEVATION ONLY. SEE CIVIL DRAWINGS FOR THE TRUE ELEVATION ABOVE SEA LEVEL.

FOOTING SCHEDULE					
TYPE	SIZE			REINFORCING	REMARKS
	WIDTH	DEPTH	LENGTH		
9.0x20.0	9'-0"	2'-0"	20'-0"	(10) #7 x 15'-6" LG LW AND (20) #6 X 8'-6" LG SW - TOP AND BOTTOM	SPREAD FOOTING
9.0x18.0	9'-0"	2'-0"	18'-0"	(10) #7 x 17'-6" LG LW AND (18) #6 X 8'-6" LG SW - TOP AND BOTTOM	SPREAD FOOTING
8.0CM	8'-0"	2'-0"	CONT.	(9) #7 CONT AND #6 AT 8" O.C. SW WITH HOOK - TOP AND (9) #7 CONT AND #6 AT 12" O.C. SW BOTTOM	MONOLITHIC EDGE FOOTING

NOTES:
1. PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS MUST BE REVIEWED AND APPROVED PRIOR TO CONSTRUCTION OF THE FOUNDATIONS.



2
S2
SLUDGE ROOF - FRAMING PLAN
1/8" = 1'-0"

ANCHOR BOLT SCHEDULE		
ANCHOR BOLTS	HOT DIPPED GALVANIZED 3/4" DIA. ASTM F1554 GRADE 55 W/ 18" EMBEDMENT	
ANCHOR BOLT MARK	AB1	

NOTES:
1. PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS MUST BE REVIEWED AND APPROVED PRIOR TO FABRICATION OF ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH APPROVED METAL BUILDING SHOP DRAWINGS.
2. METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR DETERMINING THE REQUIRED ANCHOR BOLT PROJECTION LENGTH ABOVE TOP OF FOOTING.

REVISIONS	NO.	DATE	DESCRIPTION
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
C.E.M.	V.M.	C.E.M.	

SLUDGE ROOF FOUNDATION, FRAMING PLANS AND SCHEDULES

CONSTRUCTION PLANS FOR
GATEWAY ROOF COVER STRUCTURE AND CONTAINMENT CURB RETROFIT
LEE COUNTY, FLORIDA

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DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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PROJECT NO.: 19-0229.000

SCALE: As indicated

DATE: 03/06/2020

DRAWING: S2

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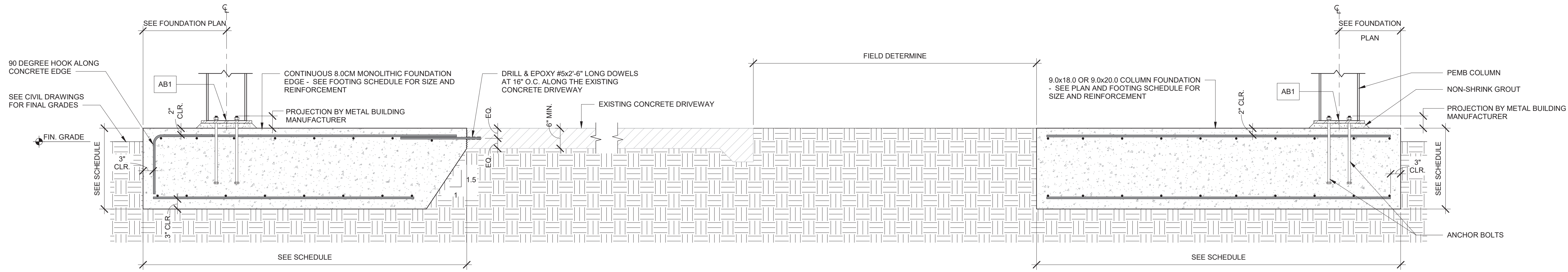
PROJECT NUMBER: 1019_16

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 533.79 AND CHAPTER 633.

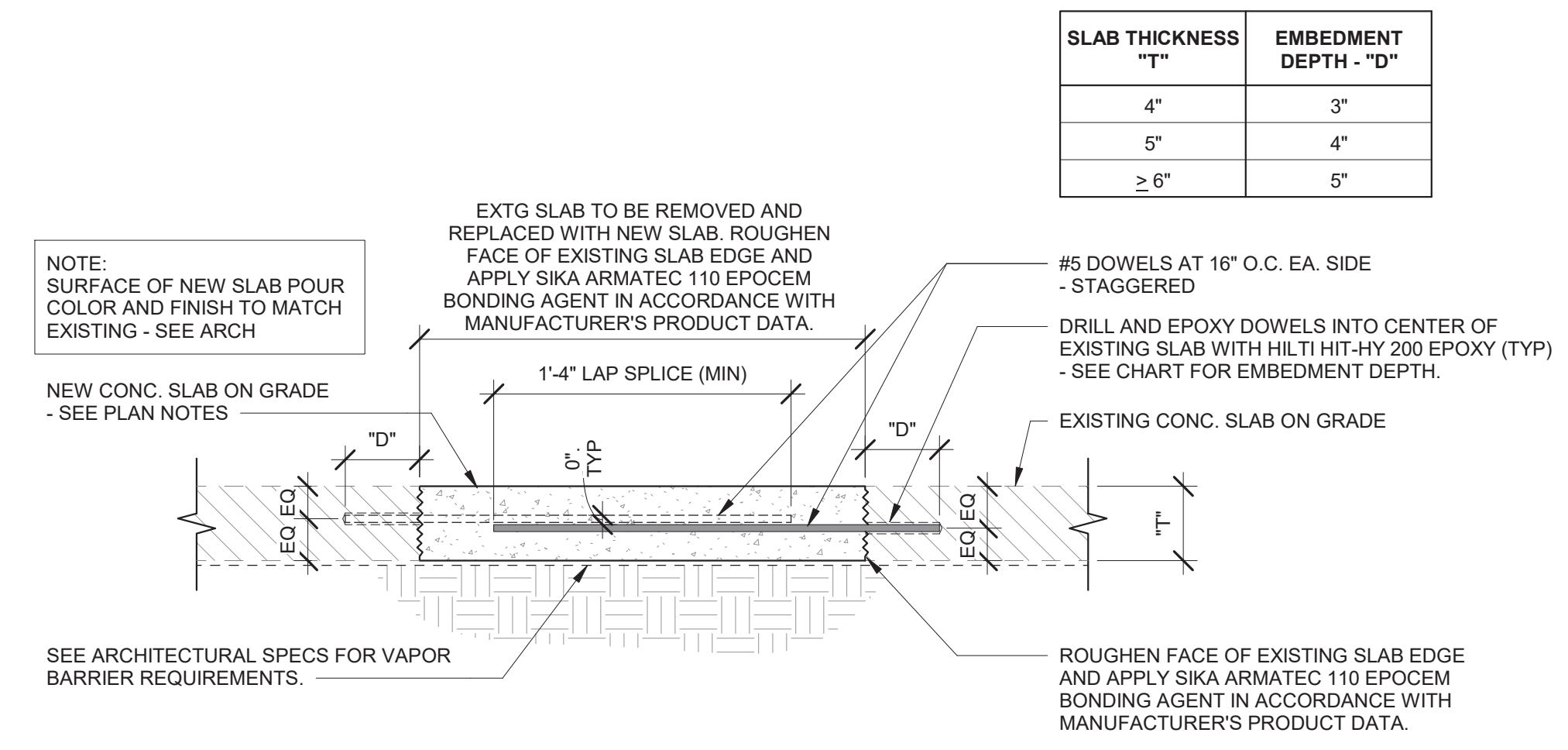
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CRAIG E. McELROY P.E. LIC. NO. FL 44741

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16:43:06 -05'00'

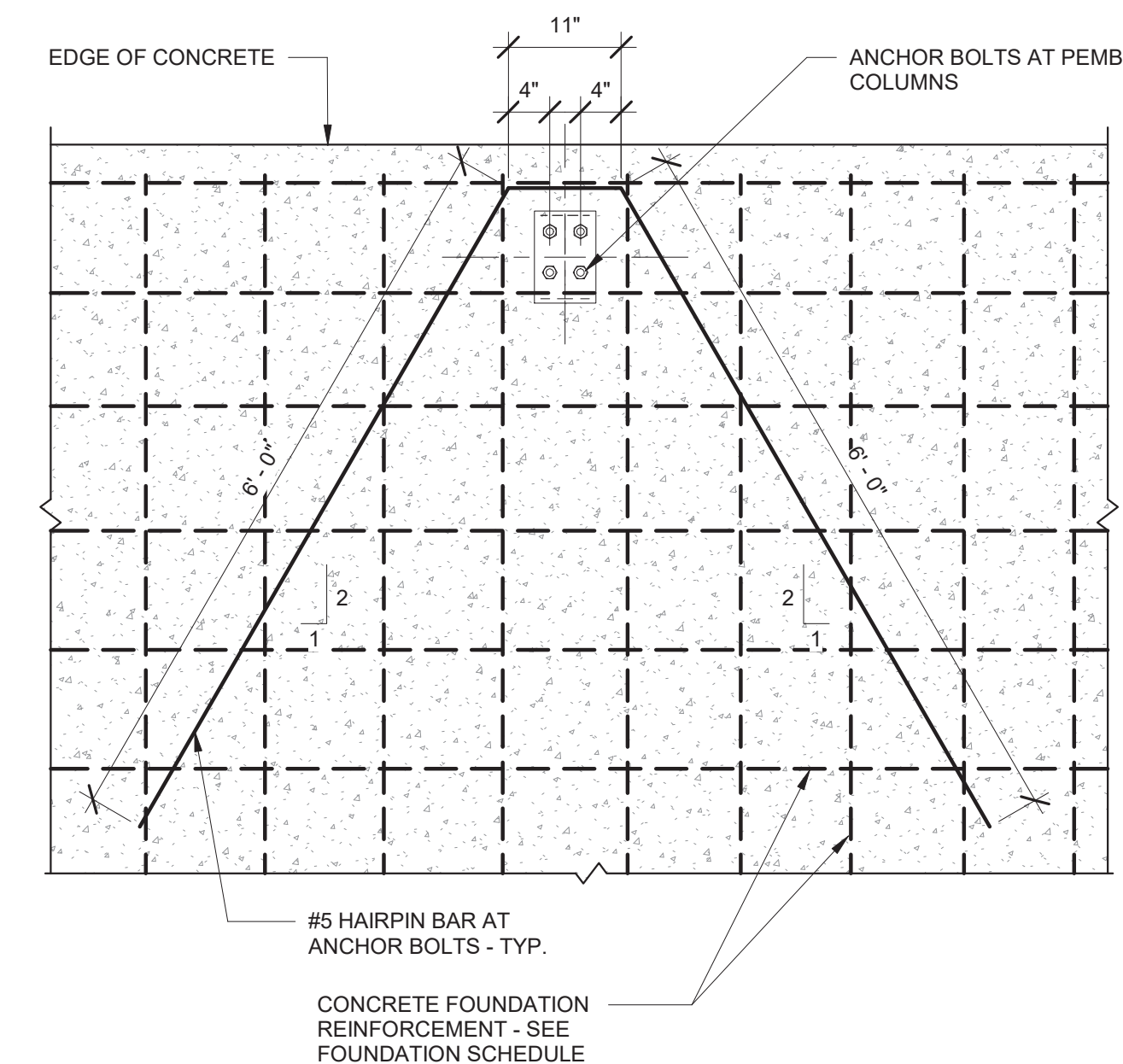


1 CONCRETE FOOTING SECTION
3/4" = 1'-0"



SLAB THICKNESS "T"	EMBEDMENT DEPTH "D"
4"	3"
5"	4"
≥ 6"	5"

2 TYPICAL SLAB REPLACEMENT DETAIL
1 1/2" = 1'-0"



3 HAIRPIN DETAIL
3/4" = 1'-0"

NO	DATE	DESCRIPTION	BY			
			DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY

CONSTRUCTION PLANS FOR
GATEWAY ROOF COVER
STRUCTURE AND CONTAINMENT
CURB RETROFIT
LEE COUNTY, FLORIDA

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DRMP, Inc.

PROJECT NO.:	19-0229.000
SCALE:	As indicated
DATE:	03/06/2020
DRAWING:	S3

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Craig E. McElroy
P.E. License No. 44741
Date: 2020.11.11
164338-0500

BY	
DESCRIPTION	
NO.	
DATE	

DESIGNED BY	JAC
DRAWN BY	CAC
CHECKED BY	JJJ
APPROVED BY	

**ELECTRICAL PLANS,
LUMINAIRE SCHEDULE
& NOTES**

**CONSTRUCTION PLANS FOR
GATEWAY WRF
SLUDGE LOADING
AREA ROOF
LEE COUNTY, FLORIDA**

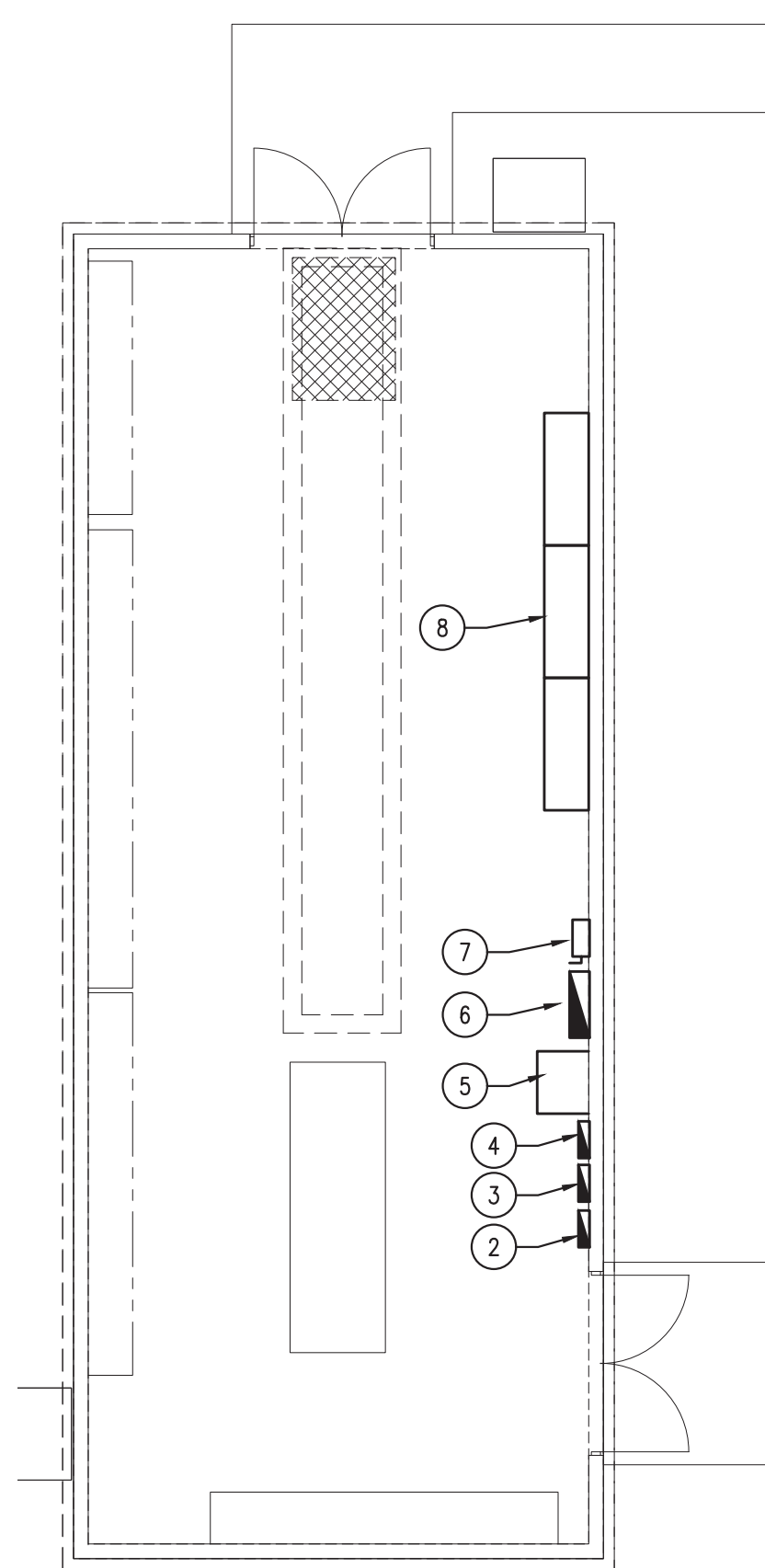
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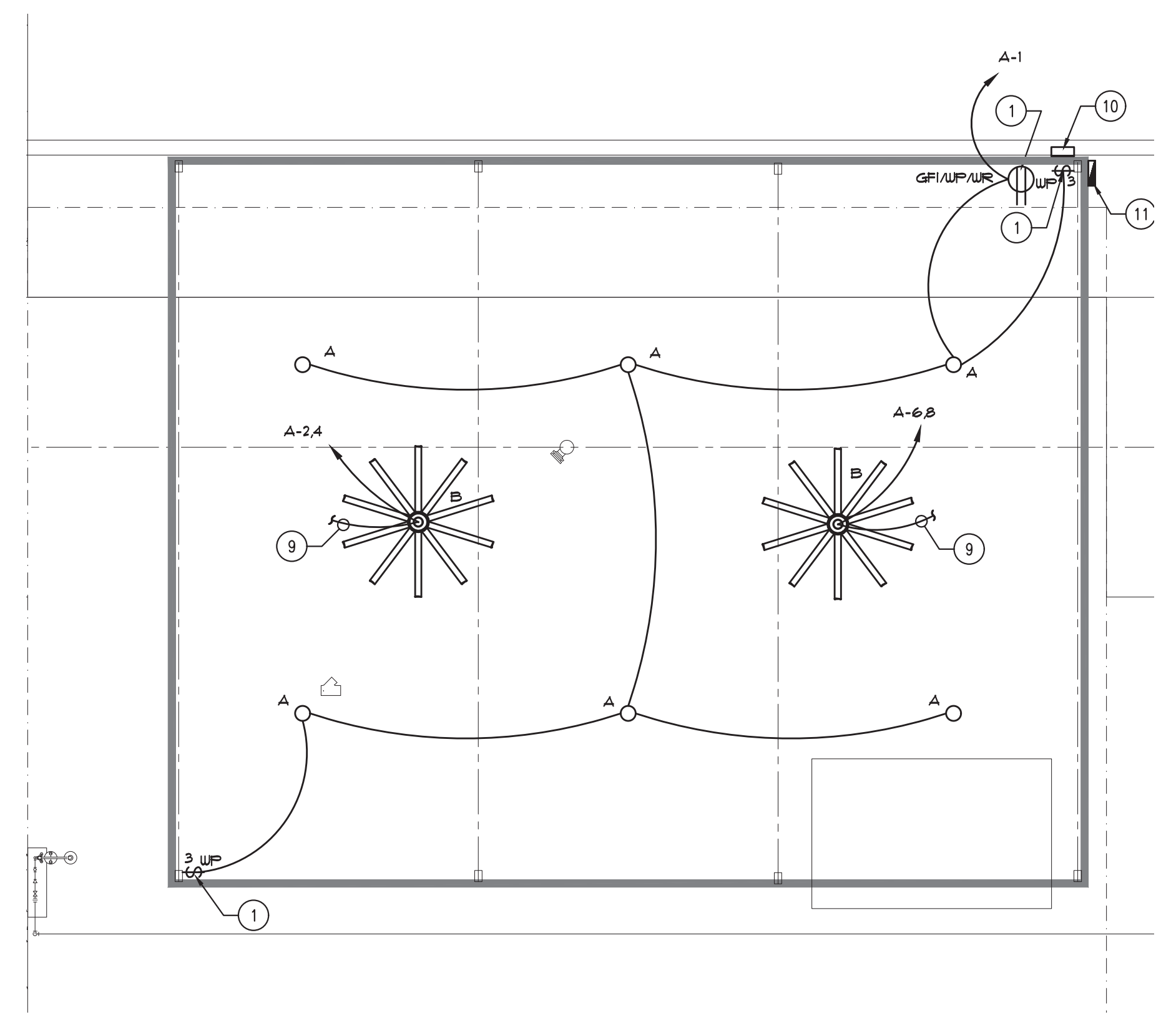
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PROJECT NO.:	19-0229.000
SCALE:	
DATE:	MARCH 11, 2020
DRAWING:	E1

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1 EXISTING MAIN ELECTRIC ROOM
SCALE: 1/4" = 1'-0"



2 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

NOTE:
ALL BOXES AND PLATES TO BE NEMA4X STAINLESS STEEL.

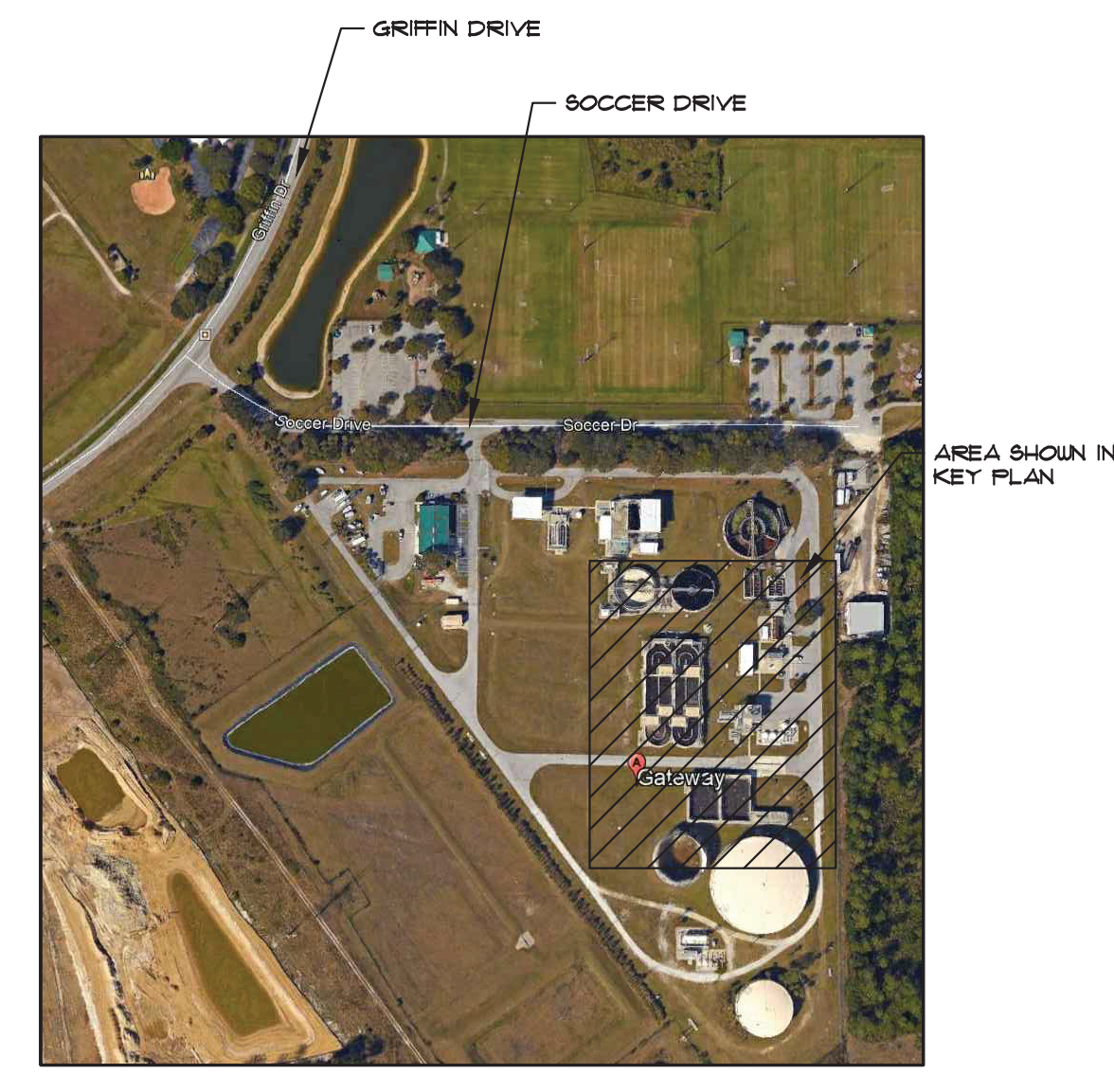
EXISTING ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
E	EXISTING
ER	EXISTING REMOVE
EREL	EXISTING RELOCATE
REL	RELOCATED EXISTING

LUMINAIRE FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	VOLTS	MOUNTING	REMARKS
A	TGS	RCP-S-60W-50K-U-D-W	60W LED	120	SURFACE	ROUND CANOPY LED. WET LOCATION LISTED.
	BARRON	RCL60-4K-WH-SC	60W LED			
B	BIGASSFANS	POWERFOIL D	N/A	240	PENDANT	10' FAN SELECTED BY OWNER, INSTALLED BY EC WET LOCATION LISTED

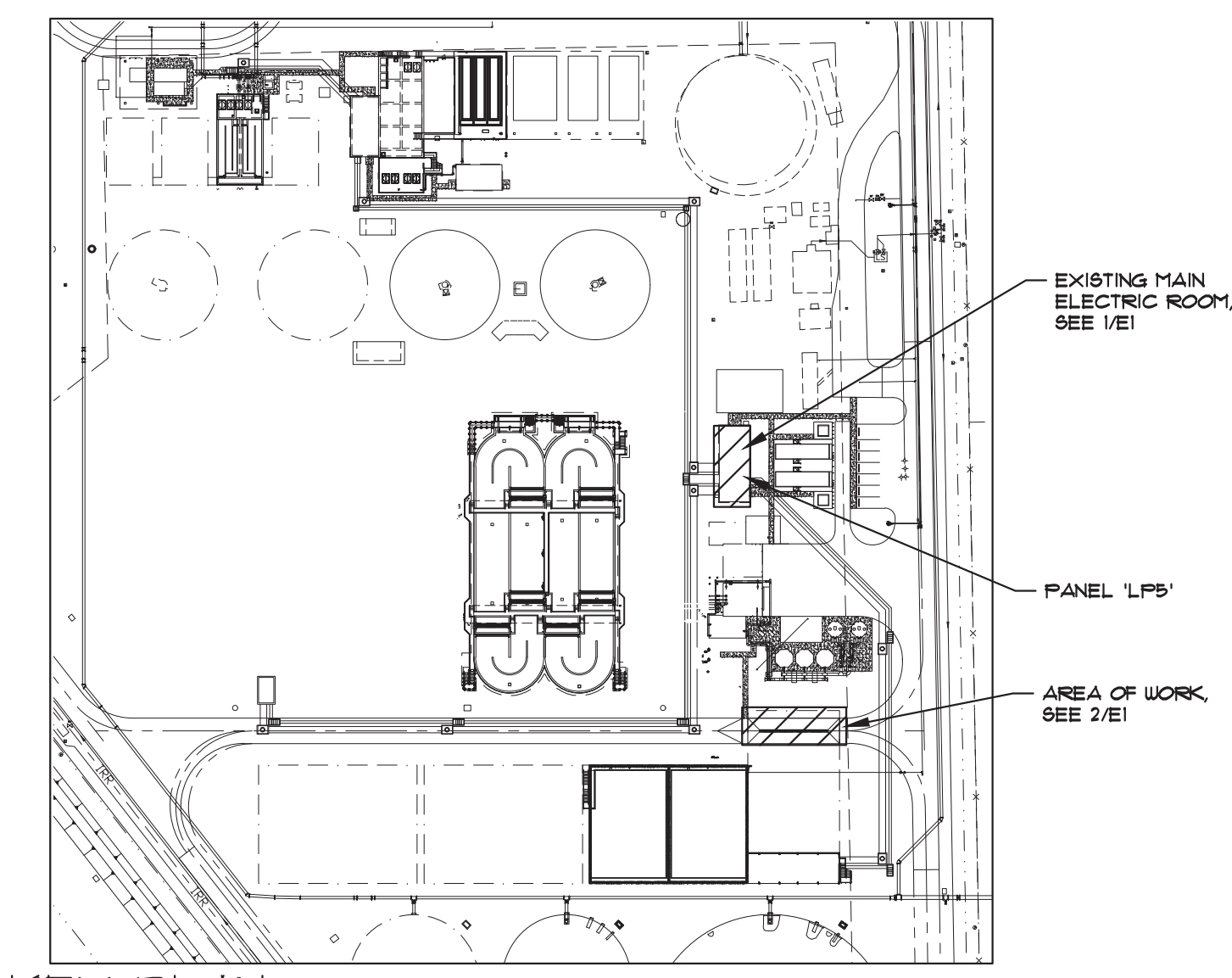
1. SPECIFIED LIGHTING IS THE BASIS OF DESIGN. EQUALS MAY BE SUBMITTED BY LIGHTING REPRESENTATIVES TO JEWITT ENGINEERING 3 DAYS PRIOR TO BID DATE FOR APPROVAL. PLEASE PROVIDE COLOR SUBMITTALS ALONG WITH IES PHOTOMETRICS FILES FOR REVIEW. WRITTEN APPROVAL WILL BE ISSUED FOR EQUAL PRODUCTS APPROVED. IF EQUAL PRODUCTS ARE NOT APPROVED, SPECIFIED FIXTURE WILL BE PROVIDED. ANY EQUAL PACKAGES RECEIVED THAT DOES NOT INCLUDE THIS INFORMATION WILL NOT BE REVIEWED.

2. E.C. IS TO COORDINATE FIXTURE COLORS WITH ARCHITECT PRIOR TO ORDERING.

3. E.C. IS TO VERIFY CEILING TYPE AND COMPATIBILITY WITH FIXTURES PRIOR TO ORDERING.



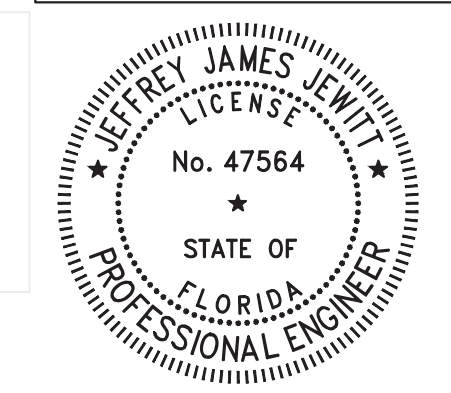
AREA KEY PLAN
N.T.S.



KEY PLAN
N.T.S.

This item has been electronically signed and sealed by Jeffrey J. Jewitt P.E. on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

Digitally signed by
JEFFREY J. JEWITT
Date: 2020.11.12
06:09:11 -05'00'



JEWITT ENGINEERING, INC.
Established 1994
623 BAYSIDE DRIVE FORT MYERS, FLORIDA 33919 (239) 432-1550
jjewitt@jewitt.com

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JEFFREY J. JEWITT P.E., LEED AP PE #47564

- SHEET NOTES:**
- COORDINATE LOCATION WITH OWNER
 - E PANEL 'LP1'
 - E PANEL 'LP3'
 - E PANEL 'LP5'
 - E 'X1R'
 - E PANEL 'HP2'
 - E DISC.
 - E SUBD
 - FAN SWITCHING PROVIDED BY MANUFACTURER. COORDINATE LOCATION EC TO MAKE ALL REQUIRED CONNECTIONS.
 - CONTROL BOX FOR FANS. COORDINATE LOCATION
 - NEW PANEL 'A'. COORDINATE LOCATION

EXISTING			NEW											
MAINS: <input type="checkbox"/> LOADCENTER <input checked="" type="checkbox"/> PANELBOARD <input checked="" type="checkbox"/> MLO <input type="checkbox"/> TOP <input type="checkbox"/> BOTTOM PHASE: 3PH <input type="checkbox"/> MCB AIC: SEE RISER TRIP: WIRE: 4W			PANEL DESIG: LP5 LOCATION: SEE ELECTRICAL PLAN			BUSSING: <input checked="" type="checkbox"/> CU <input type="checkbox"/> AL <input type="checkbox"/> ISO GROUND <input type="checkbox"/> HALF NEUTRAL <input checked="" type="checkbox"/> FULL NEUTRAL <input checked="" type="checkbox"/> STD. GROUND BUS AMPS: SEE RISER			MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH VOLTS: 120/208 NEMA TYPE: 1					
FED FROM: SEE RISER SUPPLY FEEDER: SEE RISER			FED FROM: SEE RISER SUPPLY FEEDER: SEE RISER			FED FROM: SEE RISER SUPPLY FEEDER: SEE RISER			FED FROM: SEE RISER SUPPLY FEEDER: SEE RISER					
FEEDER			FEEDER			FEEDER			FEEDER					
COND	WIRE	EG	LOAD DESCRIPTION	BKR TRIP	CKT NO.	BKR TRIP	LOAD DESCRIPTION	BKR TRIP	CKT NO.	BKR TRIP	LOAD DESCRIPTION	COND	WIRE	EG
E	E	E	E		1	2	E		1	2	E	E	E	E
E	E	E	E		3	4	E		3	4	E	E	E	E
			SPARE		5	6	E		5	6	E	E	E	E
			SPARE		7	8	E		7	8	E	E	E	E
E	E	E	E		9	10	E		9	10	E	E	E	E
E	E	E	E		11	12	E		11	12	E	E	E	E
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			SPARE		25	26								
			SPARE		27	28								
			SPARE		29	30								
			SPARE		31	32								
			SPARE		33	34								
			SPARE		35	36								
			SPARE		37	38								
			SPARE		39	40								
			SPARE		41	42								
			SPARE											

NOTES:
 1. WIRE SIZE SHALL MATCH C.B. TRIP SIZE PER N.E.C. UNLESS NOTED.
 2. CONDUIT SHALL BE EMT AND MATCH N.E.C. UNLESS NOTED AS FOLLOWS. P=PVC, I=IMC, R=RIGID STEEL, EM=EMT

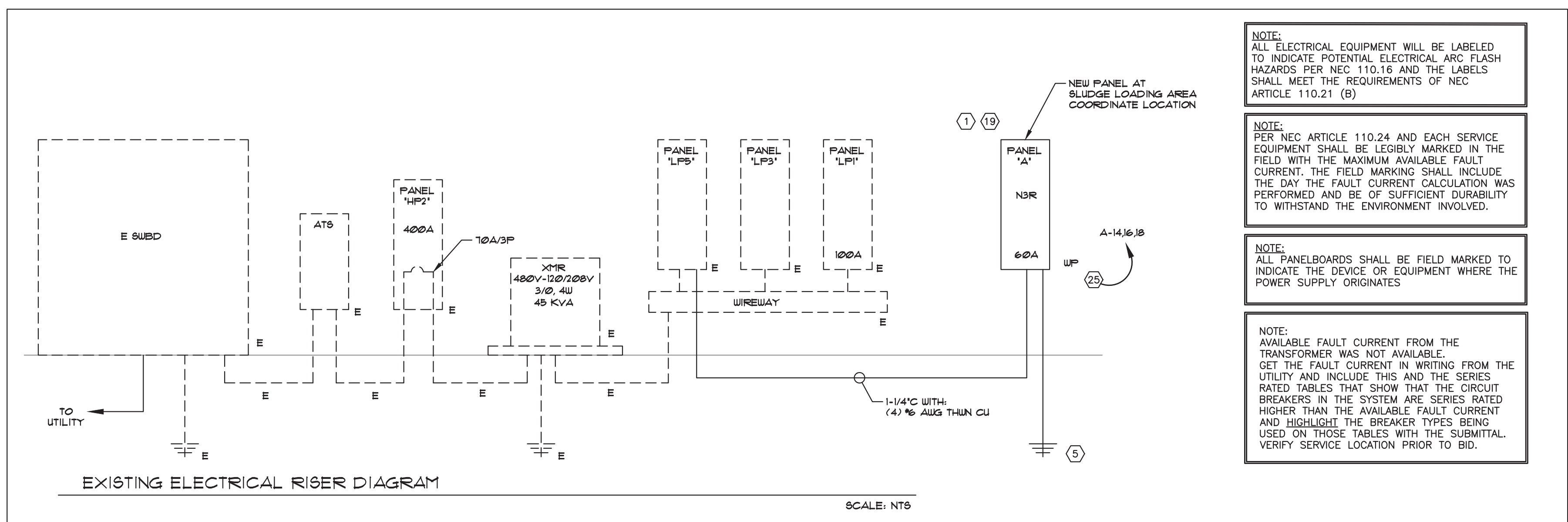
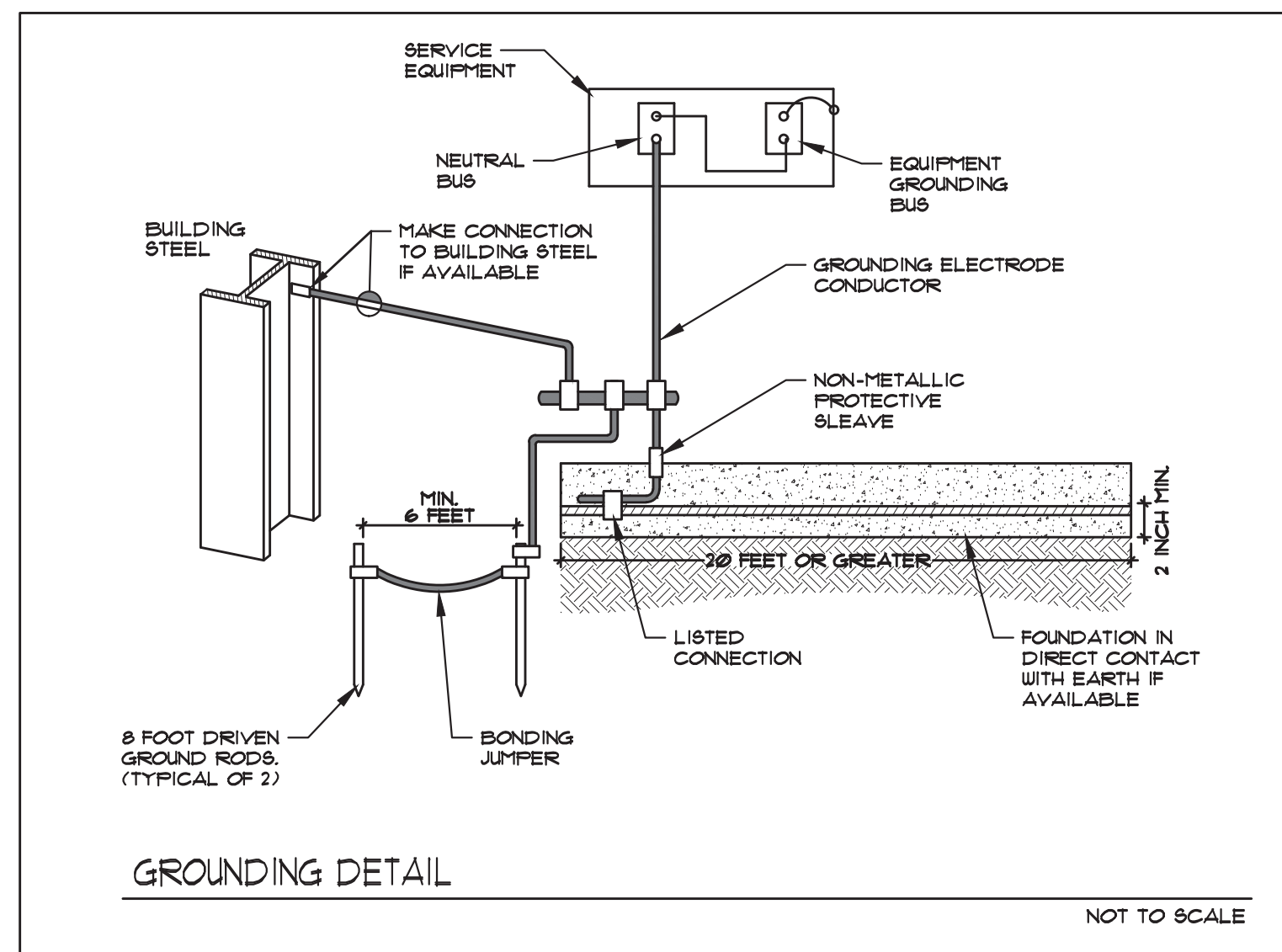
NOTES:
 ① REMOVE (3) EXISTING 20A/1P SPARE CBS AND ADD (1) 60A/3P CB TO EXISTING PANEL. MATCH EXISTING.

NEW		
MAINS: <input type="checkbox"/> LOADCENTER <input checked="" type="checkbox"/> PANELBOARD <input type="checkbox"/> MLO <input type="checkbox"/> TOP <input type="checkbox"/> BOTTOM PHASE: 3PH <input type="checkbox"/> MCB AIC: SEE RISER TRIP: WIRE: 4W		
PANEL DESIG: A LOCATION: SEE ELECTRICAL PLAN		
BUSSING: <input checked="" type="checkbox"/> CU <input type="checkbox"/> AL <input type="checkbox"/> ISO GROUND <input type="checkbox"/> HALF NEUTRAL <input checked="" type="checkbox"/> FULL NEUTRAL <input checked="" type="checkbox"/> STD. GROUND BUS AMPS: SEE RISER		
MOUNTING: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH VOLTS: 120/208 NEMA TYPE: 3R		
FED FROM: SEE RISER SUPPLY FEEDER: SEE RISER		
FEEDER		
COND	WIRE	EG
1/2	2-#12	#12

NOTES:
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 2. CONDUIT SHALL BE EMT AND MATCH N.E.C. UNLESS NOTED AS FOLLOWS. P=PVC, I=IMC, R=RIGID STEEL, EM=EMT

① FUSE DOWN AT FAN WITH (2) 10A FUSES

DEMAND CALCULATIONS	
NEGLECTIBLE ADDED LOAD	



- NOTE: ALL ELECTRICAL EQUIPMENT WILL BE LABELED TO INDICATE POTENTIAL ELECTRICAL ARC FLASH HAZARDS PER NEC 110.16 AND THE LABELS SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 110.21 (B)
- NOTE: PER NEC ARTICLE 110.24 AND EACH SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- NOTE: ALL PANELBOARDS SHALL BE FIELD MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES
- NOTE: AVAILABLE FAULT CURRENT FROM THE TRANSFORMER WAS NOT AVAILABLE. GET THE FAULT CURRENT IN WRITING FROM THE UTILITY AND INCLUDE THIS AND THE SERIES RATED TABLES THAT SHOW THAT THE CIRCUIT BREAKERS IN THE SYSTEM ARE SERIES RATED HIGHER THAN THE AVAILABLE FAULT CURRENT AND HIGHLIGHT THE BREAKER TYPES BEING USED ON THOSE TABLES WITH THE SUBMITTAL. VERIFY SERVICE LOCATION PRIOR TO BID.

- SPECIFIC NOTES**
- ① INSTALL SURGE SUPPRESSION ON ANY METALLIC/COPPER WIRES LEAVING THE BUILDING.
 - ⑤ PROVIDE A SERVICE GROUND ACCORDING TO N.E.C. ART. 250. MINIMUM INSTALLATION TO INCLUDE: CONCRETE ENCASED ELECTRODE, BONDING A GROUNDING CONDUCTOR SIZED PER NEC ART. 250 TO THE (2) 8' DRIVEN GROUND RODS 6' APART, MINIMUM. PROVIDE A 6" PVC SLEEVE, TOP 4" MIN. AFG BOTTOM 6" BFG MIN. AROUND TOP OF GROUND CONNECTION FOR EACH. USE ONLY EXOTHERMIC WELDS (CAWELD) BY AN EXOTHERMIC WELD CERTIFIED WORKER. SEE GROUNDING DETAIL THIS SHEET.
 - ⑨ COORDINATE WITH OWNER & G.C. PRIOR TO BID.
 - ⑫ INSTALL SPD (SURGE PROTECTION DEVICE) ON LOAD SIDE OF A MAIN BREAKER WITH THE SHORTEST LEAD LENGTH POSSIBLE, NOT TO EXCEED ONE AND HALF (1.5) ELECTRICAL FEET FROM THE MAIN BREAKER LUGS. AVOID ANY UNNECESSARY OR SHARP BENDS. INSTALL SPD TO A 20 OR 30-AMP NLR ENCLOSED CIRCUIT BREAKER AS A DEDICATED DISCONNECT FOR THE SPD, UNLESS OTHERWISE INDICATED. IN SITUATIONS WHERE SPACE IS LIMITED AND MAINTAINING THE LEAD LENGTH OF THE SPD IS NOT POSSIBLE IT IS ACCEPTABLE TO EXTEND THE GROUND WIRE WITH A #10 WIRE IN 3/4" C. USE PQ PROTECTION MODEL PQC100 OR EQUAL.

NO.	DATE	DESCRIPTION

DESIGNED BY: JAC DRAWN BY: CAC CHECKED BY: JJJ APPROVED BY: JJJ

ELECTRICAL RISER DIAGRAM, PANEL SCHEDULE & DEMAND

CONSTRUCTION PLANS FOR GATEWAY WRF SLUDGE LOADING AREA ROOF LEE COUNTY, FLORIDA

DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE

DRMP, Inc.
 ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

Certificate of Authorization No. 2648
 941 Lake Baldwin Lane - Orlando, Florida 32814
 Phone: 407.286.0594 Fax: 407.286.4536 www.drmp.com

Digitally signed by JEFFREY J. JEWITT
 Date: 2020.11.12 06:09:43 -05'00'

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 jjewitt@comcast.net

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PROJECT NO.: 19-0229.000
 SCALE: _____
 DATE: MARCH 11, 2020
 DRAWING: E2

ELECTRICAL SPECIFICATIONS

- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE CURRENT REQUIREMENTS OF GOVERNING AUTHORITY, THE STANDARD BUILDING CODES (INCLUDING THE 2014 EDITION OF NFPA-70, NATIONAL ELECTRICAL CODE (NEC)) AND LOCAL CODES AS MAY BE APPLICABLE. SIX SHOP DRAWINGS OF ALL MAJOR EQUIPMENT SHALL BE REQUIRED PRIOR TO ORDERING.
- SCOPE: PROVISION OF THE SECTION APPLY TO ALL WORK OF THE ELECTRICAL CONTRACTOR. RELATED WORK IS SPECIFIED ELSEWHERE. WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND COSTS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM INCLUDING: SERVICE ENTRANCE, DISTRIBUTION PANELS, GROUNDING, DISCONNECTS, WIRING, CONNECTORS, JUNCTION AND OUTLET BOXES, OUTLETS AND COVER PLATES, "SILENT" SWITCHES AND COVER PLATES, FIXTURES, CONNECTION CORDS, TELEPHONE AND CABLE TV DISTRIBUTION AND OUTLETS. COORDINATE WORK WITH THAT OF OTHER TRADES UTILITY COMPANY AND GOVERNING AGENCIES.
- ALL EQUIPMENT, FIXTURES, ETC., SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION BY THIS CONTRACTOR WHO SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF (1) ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY (C.O.); AND SHALL REPAIR SUCH DEFECTS WITHOUT COST TO THE OWNER. TESTING SHALL BE COMPLETED AS REQUIRED BY NATIONAL ELECTRIC CODE, GOVERNING AUTHORITIES AND AS NECESSARY TO ASSURE THAT THE WORK IS COMPLETELY FUNCTIONAL PRIOR TO ACCEPTANCE BY THE OWNER. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY, AND THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURER'S GUARANTEES AND WARRANTIES. THE CONTRACTOR SHALL TEST PRIOR TO ENERGIZING FOR THE FIRST TIME, ALL PIECES OF ELECTRICAL EQUIPMENT TO ASSURE THEM TO HAVE THE PROPER PHASE TO PHASE & PHASE TO GROUND INSULATION AND TO BE FREE OF SHORT AFTER ENERGIZING. EACH LUMINAIRE SHALL BE LIGHTED & TESTED. THE VARIOUS CIRCUITS SERVED FROM THE PANELBOARDS VARY IN LOADING. THE CONTRACTOR SHALL CAREFULLY BALANCE THE LOAD ON EACH LEG OF THE SERVICE. WHEN ALL LOAD IS TURNED ON AND THE SYSTEM IS OPERATING AT 100%, THE INITIAL UNBALANCE SHALL NOT EXCEED 10%. NOTE: WITH 3 PHASE DELTA, PHASES A & C SHALL BE BALANCED WITHIN 10%; PHASE B SHALL BE BALANCED AS CLOSELY AS POSSIBLE.
- ALL WIRE SIZES SHOWN (UNO-UNLESS NOTED OTHERWISE) ARE FOR COPPER CONDUCTORS (POWER AND LIGHTING CIRCUITS TO BE #12 AWG MINIMUM).
- NO "WAFER" OR "PIGGYBACK" BREAKERS PERMITTED.
- RUN ONE EMPTY 3/4" EMT CONDUIT TO ACCESSIBLE CEILING SPACE FOR EACH (4) "SPARE" OR "SPACES" INDICATED ON PANEL SCHEDULES (NON RESIDENTIAL ONLY).
- WHERE CIRCUIT HOME RUNS ARE INDICATED ON PLANS WITH MORE THAN ONE CIRCUIT, THE DEVICES OR FIXTURES CONNECTED SHALL ALTERNATE CIRCUITS AS THE RUN PROGRESSES. CARRY ALL CIRCUIT WIRING TO LAST DEVICE OF RUN. CIRCUITS CAN BE COMBINED IN THE SAME CONDUIT UP TO A MAXIMUM OF THREE CIRCUITS.
- CONDUCTOR INSULATION TYPE TO BE THHN OR THWN. ALL CONDUCTOR AMPACITIES ARE TO BE BASED UPON 75° C INSULATION - NO DOWN - SIZING PERMITTED OF CONDUCTOR SIZE BASED UPON USE OF 90° C
- THE ELECTRICAL CONTRACTOR IS TO INSTALL METERING EITHER PROVIDED BY THE GOVERNING UTILITY COMPANY OR OF A TYPE APPROVED BY THE UTILITY COMPANY AND U.L. LISTED. CONTRACTOR TO VERIFY ALL REQUIREMENTS SUCH AS "BY-PASS" CAPABILITIES FOR COMMERCIAL, THREE PHASE WIRE, SINGLE PHASE, RESIDENTIAL, ETC. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL METER CANS OR EQUIPMENT IN AN APPROVED MANNER (I.E. NUMBERS STAMPED DIRECTLY ON EQUIPMENT, OR STAMPED TAGS FASTENED BY RIVETS OR SCREWS IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNING UTILITY COMPANY.
- A/C AIR HANDLER AND CONDENSING UNIT CIRCUIT BREAKERS MUST BE U.L. LISTED AS "HACR" RATED IN ORDER TO USE NON-AUTO DISCONNECTS AT H.V.A.C. EQUIPMENT. IF NOT LISTED, THEN A FUSED DISCONNECT IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS NAME PLATE REQUIREMENTS MUST BE INSTALLED AT THE EQUIPMENT. ALL GROUP MOUNTED DISCONNECTS (SUCH AS A/C CONDENSERS) ARE TO BE IDENTIFIED AS TO APARTMENT OR LOCATION THEY SERVE.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE MOUNTING HEIGHT OF DEVICES ABOVE COUNTER TOPS, WALL FURNITURE, ETC., WITH THE ARCHITECTURAL PLANS AND/OR OWNER.
- THE ELECTRICAL CONTRACTOR SHALL STRICTLY ADHERE TO THE FOLLOWING ITEMS, WHEN DEALING WITH ELECTRICAL EQUIPMENT CLEARANCES:
 - NO PIPING OF ANY KIND, OR DUCTWORK, SHALL BE INSTALLED ABOVE AN ELECTRICAL SWITCHBOARD OR PANELBOARD. THIS AREA TO REMAIN CLEAR FROM EQUIPMENT TO BOTTOM OF STRUCTURAL SLAB OR FLOOR
 - A CLEARANCE OF 36" MINIMUM SHALL BE MAINTAINED IN FRONT OF ELECTRICAL EQUIPMENT FOR THE ENTIRE WIDTH OF THE EQUIPMENT, 30" WIDE PER NEC AND FROM FLOOR TO SLAB ABOVE.
- REVISIONS TO THESE DRAWINGS AND SIGNING & SEALING THERE TO, WHICH MAY BE REQUIRED BY THE APPLICABLE INSPECTION AUTHORITY BECAUSE OF CONTRACTOR OPTED REVISIONS SHALL BE COMPENSATED TO THE ENGINEER BY THE REQUESTING CONTRACTOR.
- ALL DEVICES (I.E. RECEPTACLES, SWITCHES AND OUTLETS SHALL BE THE COLOR WHITE. ALL "W" RECEPTACLES & SWITCHES SHALL BE INSTALLED WITH LONG SIDE HORIZONTAL WITH "APPROVED" COVER.
- ALL CONDUITS SHALL HAVE EXPANSION FITTINGS ON ROOF C RUNS PER NEC
- CUTTING AND PATCHING OF CONCRETE AND/OR ASPHALT TO FOR THE ELECTRICAL SYSTEM WILL BE INCLUDED IN THE ELECTRICAL BID.
- PVC CONDUIT MAY BE USED UNDER GROUND BY ADDING AN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC.
- THE ROOM SIZES, WINDOW AND DOOR LOCATIONS ARE APPROXIMATE, VERIFY AND COORDINATE EQUIPMENT LOCATIONS IN THE TO COMPLY WITH ALL REQUIREMENTS OF BUILDING CODES.
- ALL SWITCHGEAR & OVER CURRENT DEVICES SHALL BE SERIES RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT (SEE RISER DIAGRAM FOR FAULT CURRENT).
- WIRE TO AND MAKE CONNECTION OF ALL EQUIPMENT NOTED AND ALL EQUIPMENT FURNISHED BY OTHERS FOR A COMPLETE AND SATISFACTORY OPERATION BY THE OWNER.
- ELECTRICAL CONTRACTOR TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, INCLUDE WORST CASE CONDITION IN BID. ADDITIONAL CHARGES FOR EXISTING CONDITIONS WILL NOT BE APPROVED.
- VERIFY AND COORDINATE ALL ELECTRICAL WORK WITH ALL TRADES TO PROVIDE A TIMELY INSTALLATION. NO ADDITIONAL CHARGES DUE TO LACK OF COORDINATION WILL BE APPROVED.
- ANY DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS IS THE RESPONSIBILITY OF THOSE THAT MAKE THEM AND NOT THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. THIS DRAWING IS FOR INFORMATION AND LOCATION PURPOSES ONLY. THE ELECTRICAL CONTRACTOR SHOULD VERIFY ALL LOCATIONS WITH THE MECHANICAL AND GENERAL CONTRACTORS, ANY CONFLICTS SHOULD BE REFERRED TO THE ARCHITECT OR ENGINEER IMMEDIATELY.
- THE ELECTRICAL CONTRACTOR IS TO INSTALL A TEMPORARY ELECTRIC (100 AMP SINGLE PHASE MINIMUM) AND LIGHTING SERVICE.

- PERMITS AND INSPECTION: ALL PERMITS AND LICENSES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR, BEFORE ACTUAL WORK IS STARTED. THE ELECTRICAL CONTRACTOR SHALL REVIEW COPIES OF THE PERMIT SETS AND SHALL PERFORM ANY REQUIREMENTS STIPULATED. THE INSTALLATION SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER BY PERSONS LICENSED AND SKILLED IN THE TRADE AND SHALL BE DONE UNDER THE SUPERVISION OF A MASTER ELECTRICIAN LICENSED TO DO WORK IN THE STATE OF FLORIDA. THE WORK WILL BE INSPECTED BY AN AGENT OF THE GOVERNMENTAL DEPARTMENT HAVING JURISDICTION.
- MATERIALS: ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE LISTED BY OR BEAR THE UNDERWRITER'S LABEL WHERE SUBJECT TO SUCH APPROVAL FOR INTENDED USE. MATERIALS SHALL BE OF THE SAME MANUFACTURER OR BRAND FOR EACH TYPE OF MATERIAL UNLESS DESIGNATED OTHERWISE. CONDUITS SHALL BE RIGID METALLIC, ELECTRICAL METALLIC TUBING, OR PVC AS REQUIRED FOR THE APPLICATION, AND SHALL BE U.L. LISTED FOR SUCH APPLICATION. OUTLET BOXES SHALL BE GALVANIZED STEEL OR APPROVED PLASTIC, U.L. LISTED. GALVANIZED BOXES SHALL BE AS MANUFACTURED BY NATIONAL, APPLETON, STEEL CITY, RACO, SPRING CITY OR APPROVED. PLASTIC BOXES SHALL BE ALLIED, NELCO, OR EQUAL. MEETING NEC AND NEMA REQUIREMENTS, IN APPROVED CONDUIT. ALL CONDUITS AND FITTINGS SHALL BE U.L. APPROVED FOR THE INTENDED APPLICATION. FLEXIBLE CONDUIT SHALL BE AS MANUFACTURED BY APPLETON OR ANACONDA. OTHER METAL CONDUIT SHALL BE REPUBLIC, TRIANGLE, ALLED, J & L OR EQUAL. WIRE OF SIZE NO. 10 AND SMALLER SHALL BE FACTORY COLOR CODED. SIZES LARGER THAN #10 MAY BE FACTORY COLOR CODED OR COLOR CODE WITH TAPE SUCH AS THAT MANUFACTURED BY THE MINNESOTA MINING AND MANUFACTURING COMPANY FOR THIS PURPOSE. SHOULD TAPE BE USED, IT SHALL COVER NOT LESS THAN SIX INCHES OF CABLE WITHIN ENCLOSURES. DIRECT BURIAL CABLE SHALL BE MULTI-CONDUCTOR COPPER TYPE FOR USE AS APPLICABLE FOR POWER AND LIGHTING. DUAL RATED LUGS (CU OR AL) ARE TO BE USED. IF AL WIRE IS SPECIFIED, USE MHW OR THW COMPACT AL W/ ANTI OXIDATION COMPOUND ON BARE WIRE. COLORS TO BE USED IN CODING SHALL BE: NEUTRAL-WHITE, PHASE A-BLACK, PHASE B-RED, PHASE C-BLUE, GROUNDING CONDUCTOR-GREEN.
- TELEPHONE AND CABLE TELEVISION DISTRIBUTION SYSTEM, INSTALLATION, WIRING AND OUTLETS SHALL CONFORM TO THE REQUIREMENTS OF THE UTILITY COMPANY PROVIDING SERVICE.
- USE 90° C RATED WIRE.
- CONNECT ALL EXIT & EMERGENCY LIGHT AHEAD OF ANY SWITCHING.
- ELECTRICAL OUTLETS OR JUNCTION BOXES IN FIRE RATED WALLS MUST BE SHIFTED SO THEY ARE NOT BACK TO BACK. FIRE STOP ALL PENETRATIONS THROUGH FIRE WALLS TO MEET UL LISTED REQUIREMENTS.
- ALL CONDUIT SERVING ROOF SHALL BE ROUTED THROUGH ROOF WATERPROOF WEATHERHEAD.
- ALL LABELS WILL BE ENGRAVED WITH 1/4" HIGH LETTERS, PLASTIC & PERMANENTLY ATTACHED TO THE SWITCH GEAR. LABEL ALL SWITCHGEAR PER NEC. TYPE A PANEL SCHEDULE SHEET FOR ALL CKTS FOR EACH PANEL, INCLUDING MODIFIED EXISTING PANELS, AND INSTALL IN A LAMINATED POCKET INSIDE PANEL COVER OR LABEL EACH CKT. PROVIDE AN EXTRA COPY OF PANEL SCHEDULES, TYPED & DIGITAL FORMAT, TO THE OWNER. FOR SWITCHBOARDS, DISCONNECTS & PANELS LABEL PER NEC 110.16:

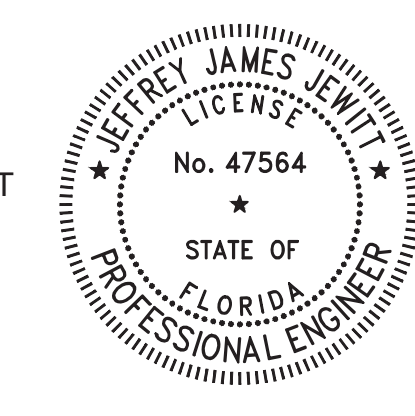
*WARNING
ARC FLASH HAZARD.
APPROPRIATE PPE REQUIRED.
FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY.
REFER TO NFPA 70 E.*
- WIRING TO BE:
 - 'EMT' CONDUIT & CONDUCTORS
 - 'PVC' CONDUIT & CONDUCTORS UNDERGROUND
 - 'MC' CABLE WITH ALL HVAC CIRCUITS IN CONDUIT.
 - ENT CONDUIT & CONDUCTORS
 - 'EMT'/PVC CONDUIT W/ 'MC' CABLE OPTIONAL PRICE
- THESE PLANS HAVE BEEN REVIEWED AND COMPLY WITH THE 2014 N.E.C., FBC 6TH EDITION (2017), FPEC 6TH EDITION AND NFPA 72 2013.
- INSTALL RECEPTACLES WITHIN 25' FROM MECHANICAL EQUIPMENT.
- MC CABLE IS ACCEPTABLE WHERE ALLOWED BY THE NEC IN PLANS FOR FOR THE 20A BRANCH CIRCUITS.
- INSTALL CRUSHED STONE 6" MIN BELOW PADS INCLUDING UTILITY XMR TO PREVENT SETTLING OR NON-LEVEL EQUIPMENT.
- INSTALL PULL STRING; CAP BOTH ENDS AND LABEL ALL EMPTY CONDUITS AS TO WHERE THEY GO.
- EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:

CAUTION - SERIES COMBINATION SYSTEM RATED _____ AMPERES.
IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.
- VOLTAGE DROP: FOR 20 AMP CIRCUITS OVER 100 FEET AND LESS THAN 175 FEET USE #10 CONDUCTORS. FOR 20 AMP CIRCUITS OVER 174 FEET AND LESS THAN 275 FEET USE #8 CONDUCTORS. IF THE SERVICE CONDUCTOR OR ANY FEEDER LENGTH IS GREATER THAN 100', INCREASE THE WIRE SIZE & CONDUIT ACCORDINGLY TO ACCOUNT FOR A 3% VOLTAGE DROP PER THE FLORIDA BUILDING CODE, ENERGY EFFICIENCY.
- THE ATTACHED DRAWINGS WERE DEVELOPED FROM RECORD DRAWINGS AND INFORMATION PROVIDED BY OTHERS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. THE DESIGN TEAM SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CONFLICTS WITH THE DRAWINGS FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
- NOT USED
- RECESS ALL DEVICES AND CONDUIT UNLESS NOTED OTHERWISE
- AS-BUILT DWGS MARKED UP TO OWNER AS A TURNOVER ITEM AT FINAL COMPLETION
- ANY OUTAGES OR DISRUPTIONS OF EXISTING BUSINESS OPERATIONS REQUIRED FOR CONSTRUCTION WILL BE KEPT TO A MINIMUM.

ABBREVIATIONS LEGEND			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A/C	AIR CONDITIONING	LCEC	LEE COUNTY ELECTRIC COOPERATIVE
AFF/G	ABOVE FINISH FLOOR/GRADE	LT/S	LIGHTS
AHJ	AIR HANDLING UNIT	MC	METAL CLAD CABLE
AHJ	AUTHORITY HAVING JURISDICTION	NI	NEMA 1 (INDOOR ENCLOSURE)
AIC	AMP'S INTERRUPTING CAPACITY	NBR	NEMA 3R (RAIN TIGHT ENCLOSURE)
ALT	ALTERNATE	NNEUT	NEUTRAL
BFF/G	BELOW FINISH FLOOR/GRADE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRIC CODE
CKT	CIRCUIT	NP	NON-PROTECTED
CLG	CEILING	OC	OVER-COUNTER
C/IND	CONDUIT IN INCHES	O/H	OVERHEAD
CU	COPPER	F	POLE
CU	CONDENSER UNIT	RECEPT	RECEPTACLE(S)
DISC	DISCONNECT	REL	RELOCATED EXISTING
E	EXISTING	R/I	REACH-IN
EC	ELECTRICAL CONTRACTOR	RR	RESTROOM
EF	EXHAUST FAN	RS	RIGID STEEL CONDUIT
EG/G	EQUIPMENT GROUND	SE	SERVICE ENTRANCE RATED
EM	EMERGENCY	S/N	SOLID NEUTRAL
EMT	ELECTRIC METALLIC TUBING	SWGR	SWITCHGEAR
ER	EXISTING REMOVE	TC	TIME CLOCK
EREL	EXISTING RELOCATE	T/TEL	TELEPHONE
FA	FIRE ALARM	TR	TAMPER RESISTANT
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GCO	GENERAL CONVENIENCE OUTLET	UC	UNDER COUNTER
GF	GROUND FAULT INTERRUPTER	UG	UNDERGROUND
HT	HEIGHT	UL	UNDERWRITERS LABORATORIES, INC.
HH	HANDHOLE	UNO	UNLESS NOTED OTHERWISE
HTR	HEATER	W	WITH
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	W/I	WALK-IN
IG	ISOLATED GROUND	WP	WATER PROOF
JB	JUNCTION BOX	W	WIREWAY
KEF	KITCHEN EXHAUST FAN	XMR	TRANSFORMER
KSP	KITCHEN SUPPLY FAN		

ELECTRICAL SYMBOL LEGEND	
	LIGHT FIXTURE
	WALL TOGGLE SWITCH 1-POLE, 3 OR 4 WAY, SPECIFICATION GRADE 20 AMP. 48" A.F.F.
	SPECIAL PURPOSE RECEPTACLE, SURFACE MOUNTED
	RECEPTACLE - WALL DUPLEX - 120V - SPECIFICATION GRADE 20 AMP. 18" A.F.F.
	MOTOR CONNECTION.
	PHOTOCELL, WP, OUTSIDE, FACING NORTH
	TIMER IN NEMA 1 ENCLOSURE
	DISCONNECT SWITCH
	POWER PANEL (FLUSH/SURFACE) SEE SCHEDULES
	PANEL AND CIRCUIT NUMBER AND DESIGNATION.
	CONDUIT RUN (CONCEALED)
	CONTACTOR IN NEMA 1 ENCLOSURE

Digitally signed by JEFFREY J. JEWITT
Date: 2020.11.12 06:10:12 -0500'



JEWITT ENGINEERING, INC.
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JEFFREY J. JEWITT P.E., LEED AP PE #47564

BY		DESCRIPTION							
DATE									
NO.									
JAC		CAC		JJJ					
DESIGNED BY		DRAWN BY		CHECKED BY		APPROVED BY			
ELECTRICAL NOTES									
CONSTRUCTION PLANS FOR GATEWAY WRF SLUDGE LOADING AREA ROOF LEE COUNTY, FLORIDA									
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DRMP, Inc.									
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DRAWING: E3									